

# The Prodigies of the Ancient Roman Republic and their Chronology. 

A Resource for Modern Science.

VOLUME ONE

Submitted for Degree of Doctor of Philosophy by

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## Summary

During the period of the Republic the religious authorities of ancient Rome paid considerable attention to prodigia, to them enigmatic phenomena considered to reflect the disposition of the gods. Reports of prodigies accepted and expiated were preserved in the official archives and such primary records are the basis of secondary accounts that appear in literary works of different genres.

Many of the phenomena regarded as prodigia are of considerable interest to multiple branches of modern science and scientists themsel ${ }_{\text {ves }}$ have duly sought to exploit the extant evidence. So far, most efforts in this direction $h_{a}$ ve been seriously undermined by a number of contributing factors. These include incompleteness of the data bank deployed, oblivion to serious chronological difficulties, unfamiliarity with the background and mindset of the authors in whose works prodigies are listed, and unawareness of allusions and representations in a variety of ancient writings that bear in one way or another on matters of interpretation.

The principal aim of the present thesis, part of $a_{h}$ ongoing project on a broader canvas, is to provide scientists, and others, aware of the $\mathrm{a}_{\text {\$tron }}$ onomical, meteorological and other significance of prodigial records with a comprehensive collection of source material relating to the period $218-167$ BCE together with other resources essential towards avoidance of pitfalls insufficiently apparent to previous exploiters.

## Statement

This thesis contains no material which has been accepted for the award of any other degree or diploma in any University; nor, to the best of my knowledge and belief, does it contain any material previously published or written by another person, except when due reference is made in the text of the thesis.


## Ackinowledgments

Many thanks go, of course, to my supervisor, Peter Bicknell, without whose unfailing assistance, support and encouragement, especially in those flagging periods, this thesis would not have achieved its current form. I thank him for his friendship over these years, and completely absolve him of any errors there may be in the present work.

I acknowledge with gratitude the assistance of Gavin Betts who checked my ancient Greek. Any errors that may remain are wholly mine.

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Finally, much gratitude goes to my parents who supported me in many different ways during the gestation period of this thesis, who listened with apparent interest to (no doubt) sometimes tedious explanations, who exhibited enthusiasm to match my own and who offered encouragement when I needed it. Also, of course, to Cody, a引d he knows why.

## Referencing, Abbreviations and Conventions

In referring to primary works in the main text and footnotes I have used the Oxford Latin Dictionary abbreviations of ancient works (with a few minor exceptions) and the mode of citation, by and large, recommended by the Oxford University Press. Full details appear in the first part of the bibliography. Collections of ancient material, such as inscriptions, are referred to by their full title in the first instance and then by the abbreviation assigned in brackets sfter it. More modern words are cited in text and notes simply by author, year and page(s). Full details are set out in the second part of the bibliography.

Generally, the names of ancient Greek writers are given in the Latinized form.
For the most part I have made use of the Oxford Text of Livy for Books 21-35 and the Teubner text of John Briscoe thereafter. In respect of other ancient writers I have drawn upon the Loeb text where there is one and the Teubner text wheie there is not.

Given the thrust and intended beneficiaries of the work, translations of almost all quotations from ancient texts are provided. In the case of passage directly concerned with specific prodigies the translations are essentially my own. Elsewhere I have printed, with occasional modifications, Loeb translations where such exist. Other translations are credited to those responsible in the context of citation:

The sporadic illustrations, included for entertainment's sake rather than to throw light on the phenomena concerned, are reproductions of the quaint wondcuts in Lykosthenes de Prodigiis.

The map accompanying the gazetteer on $\mathrm{pp} .580-1$ is adapted from H.H. Scullard, A History of the Roman World from 753 to 146 B.C. (Methuen \& Co., Ltd, London, 1961 [3rd ed.])

Where journal titles are not given in full, the abbreviations used as those of L'Année Philoiogique.

# Part One 

## Introduction

# Chapter One 

## Prodigia, Science and Programme

## A. Roman Religion and the Pax Deorum

The gods of the ancient Romans impinged upon their public and private lives in many ways, both subtle and blatant. A farmer, for example, would pray and offer sacrifice to specific deities for protection of his sown fields, for a healthy crop and a successful harvest. From his perspective, nature's workings were far from a matter of law-governed science but reflected at various levels the gods' ongoing and direct involvement. At the political level, senatorial meetings could only take place in a building designated as a templum and business always began with religious matters. The entry upon office of each year's consuls was marked by sacrifice and expiation of the accepted prodigies. Although the gods were an integral part of Roman lives, the Romans did not have a structured, ideological religious framework. Roman religion did not require belief. It was dependant not on thought but on feeling. ${ }^{1}$ It has never been the primary purpose of religion to provoke thought, and this is quite evident in the Roman religion where the * application of prescribed rites and ceremonies, coupled with the strict observance of them by the populace, held pride of place. Emphasis was on the meticulous performance of the rites, on scrupulousness rather than on faith or good moral behaviour. ${ }^{2}$ For centuries

[^0]there was no especially moral element in the religion of the Romans because they believed that a man was born with an immutable character, and there was no way that any change to it could be other than extremely ephemeral. ${ }^{3}$ As Ogilvie ${ }^{4}$ puts it, in the Roman view prayers would be heard if they were correctly formulated rather than if they came from a contrite and unselfish heart. According to Nock, ${ }^{5}$
two religious emotions and two only were valued, the religio of just scruples against breaking an oath and its positive complement, pietas, a strict and loyal readiness to perform all the obligations of a Roman and a son.

Pietas has a more diffuse meaning than is encapsulated by our piety; it included the acceptance of obligations to the gods, the State, and the family, in that order. Likewise, religio is insufficiently and inaccurately translated as religion. Its basic ambience is quite remote from what we regard as that word's connotation. Overall, it was the core 'religious' preoccupation of the Romans both to avoid the wrath of the gods, and to secure their favour. ${ }^{6}$

It was an undeniable and unquestionable axiom for the Roman peonle, if not for all ancient civilizations, that the gods were solely responsible for the we'lbeing of their city and country, as well as themselves:
incolumis opulentos copiosos (the reason why men give to Jupiter the titles of Best and Greatest is not that they think that he makes us just, temperate or wise, but safe, secure, wealthy and opulent).
${ }^{3}$ Ogilvie (1969), p. 18.
${ }^{4}$ ibid., p. 19.
${ }^{5}$ Nock (1963), p. 465.
${ }^{6}$ Schilling (1987), p. 203.

Un des traits essentiels des religions antiques était l'idée d'un lien entre les groupements humains et des divinités attachées à chacun d'eux. Les dieux de la cité combattaient pour elle, avec elle. ${ }^{7}$

Not only good came from them, however; as Livy explains, omnium secundorum adversorumque causas in deos verterent (men attributed to the gods the causes of everything fortunate and unfortunate)..$^{8}$ The gods of Rome were all-powerful entities, collectively close to omniscient and omnipotent, present in every aspect of human life and aware of every decision made by humans, and their latent potentiality. The world was an arena in which all action was divinely instigated and mediated, and all thought and decision ultimately supernaturally influenced. Powerful and knowledgable though they were, the gods were effectively ascribed at times the irascibility of old men and the caprice of children. Consequently they were comprehensively indulged by worshippers who pandered to their whims and sought to avoid, often through very elaborate measures, incurring their displeasure. Their wrath could devastating but as a counterbalance their favour could be extremely advantageous to the State and, to some extent, individuals.

A covenant has for a long time been the main link between man and his god or gods, regardless, often, of pantheon and lecale. According to Exodus, ${ }^{9}$ the twelve tribes of Israel made a covenant with their God, sealed by Moses with the blood of sacrificed oxen. The ancient Romans, likewise, had a covenant with their gods, sealed by copious sacrificial offerings and maintained by prescribed rites and authorized actions. This

[^1]covenant was known as the pax deorum - the Peace of the Gods, and it was through maintenance of this peace that Rome, to her perception, became as mighty as she did, with her people the rulers of most of the Mediterranean world.

It would be a mistake to infer that the Romans felt confident of an ability to control their gods, or to take from them what was not voluntarily given. There was never a compulsory reciprocity between the people and their gods. Regardless of what rites and ceremonies were performed, the gods could not be forced into doing anything. ${ }^{10}$ There existed rather a sense of loose obligation, epitomized in the pervasive theme of do ut des (I give [to you] so that you may give [to me]). In a nutshell, $\mathbf{I}$, a human, have given a certain thing, an offering, have fulfilled a certain promise, in the hopes that you, a god; will answer my prayer, give me what I desire, fulfil your part of the bargain. If the gods failed to keep their part of this bargain, however, no ultimate blame or censure could be ascribed to them. As more puissant, superior beings they were not obliged to respond to any form of coercion or persuasion on the part of mere mortals. It was perfectly within their rights to refuse to comply with any request made. By and large, no diminution of the respect habitually accorded the gods resulted, regardless of their actions. As Fowler ${ }^{11}$ notes,
the farthest the Romans ever went in condemning their gods was when misfortune persuaded them that they were become indifferent or useless; then they began to neglect them, and to turn to other gods.

[^2]On a State, rather than an individual, level, it was the duty of the priests and
magistrates to present requests and perform appropriate rituals, and thereby keep the
Roman gods on the Romans' side. ${ }^{12}$ This was an exacting task, requiring strict adherence

[^3]This formula was not a standard, however, according to Livy's account of the attack by the dictator, M. Furius Camillus, on Veii in 396 bCE [5,21.1-5]. Camillus addressed Juno, goddess of Veii, in simple and brief terms, promising her merely a temple in Rome. The Veientes, however, were apparently unaware that, iam in partem praedae suae vocatos deos, alios votis ex urbe sua evocatos hostium templa novasque sedes spectare (some of the gods had already been invited to share in their despoiling, while others having been entreated to quit their city were beginning to look to new homes in the temples of their enemies); they fought against the Romans and were ultimately defeated. The process of removing gods and goddesses to Rome was done reverently, colentium magis quam rapientium modo (more in the manner of worshippers than of pillagers) [Livy, $5,22.3$ ]. Livy tells that the youths allocated this duty were loath to touch the goddess for fear of displaying disrespect. dein cum quidam seu spiritu divino tactus seu iuvenali ioco, "Visne Romam ire, luno?" dixisset, adnuisse ceteri deam conclamaverunt. inde fabulae adiectum est vocem quoque dicentis velle auditam (when one of the youths, whether divinely inspired or out of youthful jocularity, asked, "Will you go, Juno, to Rome?", whereat all the others cried out that the goddess had nodded assent. It was afterwards added to the story that she had also been heard to say that she was willing) [Livy, 5,22.5]. So, almost paradoxically, though the Roman religion was strictly circumscribed and allowed no provision for the abandonment of early and successful, but ultimately meaningless, rites, it was plastic enough to allow inclusion of new deities and their concomitant ceremonies, a reflexion, clearly, of the Romans' strong feelings about
to traditional rites. Any error in these could lead to voidance, necessitating an instauratio, repetition of part, or the whole, of the ceremony. The Romans clung to their religious ceremonies with limpet-like tenacity, preserving the customs that had been handed down through the generations, and in this respect, the middle and, to a certain extent, the late Roman republic can be seen as a byword for the maintenance of old, out-dated, and halfforgotten rituals. The Romans were a people extremely conservative of their religious traditions, and they endeavoured to preserve and continue the rituals and ceremonies instituted by their ancestors, on the grounds that it would be an eminently dangerous thing to abandon deliberately any of the gods, goddesses, sacred sites, or ritual acts that had been bequeathed to them. The traditional observances were not lightly tampered with; eventual incongruity notwithstanding they persisted because the Romans lacked an ideological framework that would have made possible growth and reformation of their religious system. ${ }^{13}$ Ultimately, perennial reluctance to relinquish hoid of the ancient observances meant that the religious corpus of the Romans was replete with no longer understood ceremonies and traditions, whose true origins were more often than not lost to memory and so had become the stuff of legend rather than history. The only veridical knowledge the Romans often possessed regarding any rite was that it had been observed by their ancestors and good fortune had resulted. As North puts it, ${ }^{14}$
fulfilling their vows, of their dedication to pietas.
${ }^{13}$ NORTH (1976), p. 1.
${ }^{14}$ North (1976), p. 1. His view is also held by Weber (1965), p. 7, who writes, "every purely magical act that had proven successful in a naturalistic sense was of course repeated in the form once established as effective. This principle extended to the entire domain of symbolic significance, since the slightest deviation from the ostensibly successful method might render the procedure inefficacious". Such adherence to established ceremonies was not a purely Roman tradition but applied (and in some cases still applies) to most, if not every, religion.

For the Romans of any generation, the real validation of their religion lay in the fact that it had worked: that their ancestors had won battles, survived crises, eaten dinners, begotten children and expanded their power by the practice of the self-same rites and ceremonies as they practised themselves.

Once some religious act had proven itself effective in the appeasement of the gods, it was carried out integrally and not tampered with not because of any aesthetic or other form of attraction that was conceived for the rite by its performers (in some cases, certainly, some might have existed) but rather because "the slightest deviation from the ostensibly successful method might render the procedure inefficacious." ${ }^{15}$

The Romans were able to continue with these often meaningless (insofar as the meaning or motivation behind the act had been forgotten) ${ }^{16}$ ceremonies precisely because the system was not based on worshippers' personal credos but on these ritual acts. The religion of the Romans, to repeat, was not one possessed of particular ideologies, with a philosophy and teachings, such as modern religions like Islam or Christianity which assume to exert some direct influence on the personal lives and conduct of adherents. Due to the circumscription of public religion by often arcane ritual and tradition, with its ceremonies by and large the province of specialist sacerdotal colleges, the ordinary Roman citizen had little personal participation in intercourse with the State gods, and was generally intmately involved only with private rites, such as prayers in the morning and offerings to his household gods, etc. ${ }^{17}$ The masses generally came into contact with the

[^4]gods of the State only at times of annual, organized ceremonies, such as, for example, the Ludi Romani, or on occasions of disruption and alarm, often featuring prodigies. Although not involved with the actual performance of prescribed rites, they remained acutely aware of their importance. Bailey ${ }^{18}$ claims that the populace was content to relinquish the practice of the maintenance and repair of the pax deorum entirely to those appointed to such duties, leaving it on the whole "unconcerned" about them, except for abstaining from work while the ceremonies were performed. Hallward ${ }^{19}$ however challenges this view, arguing that,
the masses - moti in religionem - received a powerful impulse towards every kind of religious observance in the desperate desire to obtain that pax deorum which the succession of disasters showed had been somehow violated.

The lives and well-being of the general populace depended heavily on satisfied gods, on obeying them and heeding their warnings, ${ }^{20}$ simply because, as Livy explains, invenietis omnia prospera evenisse sequentibus deos, adversa spernentibus (you will find that all things turn out well when we obey the gods, and ill when we spurn them). ${ }^{21}$

Any system that consisted so completely of constricting and immutable performative regulations was inevitably dependant on the expert authority of leading figures. Religious
is well outside of the scope of this thesis and so cannot be examined here. For treatment of private religion, see Mantell (1979) and Lacey (1996), pp. 170-81.
${ }^{18}$ Balley (1932), p. 127 f .
${ }^{19}$ Hallward (1954), p. 114 f .
${ }^{20}$ This oft-repeated belief is best encapsulated by Reymond Bloch (1963), p. 83, where he writes that, "La cité devait avant tout rechercher la pax Deum, la paix avec les Dieux, garants des succès individuels et collectifs." Ruptures in the pax were indeed taken very seriously, and genuine overall popular concern is reflected in Livy, 3,5.14: ...portentaque alia aut obversata oculis aut vanas exterritis ostentavere species. his avertendis terroribus in triduum feriae indictae, per quas omnia delubra pacem deum exposcentium virorum mulierumque turba implebantur.

[^5]duties in Rome were shared by several sacerdotal colleges - each with its own particular ars of expertise, whom the Senate would consult and, if necessary, to whose authority it would defer. Ultimate religious responsibility cannot be attributed solely to one person or group. ${ }^{22}$ The key collegiates together with their duties were as follows.

The Pontifices were concerned largely with administrative matters, with the conservation of relig. is traditions, with sacred laws and actions reflecting on them, with the performance of the various ludi, and with the burial laws. They were responsible for the discharging of any sacred obligations incurred by the State. They were also in charge of the maintenance of the calendar, supervision of adoptions, and were responsible for the keeping of annual records. ${ }^{23}$ The collegium pontificum included besides the pontifices, the flamines and Vestal Virgins. Its head and the head of the whole State clergy was the

[^6]Pontifex Maximus, elected by 17 of Rome's 35 tribes and holding office, like his colleagues, for life.

The Augurs, eventually 16 in number, were charged with the responsibility of the maintenance of traditional rites, and with the interpretation of the attitude of the gods towards Rome as insinuated through such familiar phenomena as the flights of birds, and thunder claps. Certain signs considered to be against the natural order of things also fell under their authority. Livy ${ }^{24}$ well conveys this influence that the college acquired:
auguriis certe sacerdotiogue augurum tantus honos accessit ut nihil belli domique postea nisi auspicato gereretur, concilia populi, exercitus vocati, summa rerum, ubi aves non admisissent, dirimerentur (however this may be, auguries and the augural priesthood so increased in honour that nothing was afterwards done, in the field or at home, unless the auspices had first been taken: popular assemblies, musterings of the army, acts of supreme importance - all were put off when the birds refused their consent).

Not as prestigious as the colleges of the pontifices and augurs but significant at times when the pax deorum was perceived as disrupted were the decemviri (increased in Sulla's time to quindecemviri) sacris faciundis. Technically minor magistrates, these decemviri were the guardians and consultants of the Sibylline Books, ${ }^{25}$ prophetic

[^7]compilations which, legend had it, were purchased in the time of Rome's Kings and which were regularly consulted when remedial action was required for the expiation of prodigies. ${ }^{26}$ These books generally offered one of two, or occasionally multiple, remedies. These included ceremonies to heal the rift between man or gods, the introduction of a foreign cult into Rome, such as those of the Idaean Magna Mater in 205

BCE and the Epidaurian Aesculapius in 292 BCE, or the incorporation of new rites such as the lectisternium into the religious framework. ${ }^{27}$ It was also the duty of the Xviri to be the overseers of religious imports and innovations.

Also with an eventual high profile in respect of the pax deorum was the ordo haruspicum, ${ }^{28}$ diviners imported into Rome from Etruria. By the late republic there were

[^8]60 haruspices headed by a summus haruspex. The Etruria disciplina of which the haruspices were practitioners revolved around the interpretation of exta, entrails; monstra, abnormal phenomena and teratologies; and lightning and its effects. With increasing frequency during the middle republic, haruspices were called on in addition to other authorities by the Senate to assist in the expiation of prodigia, monstra in the haruspices' own parlance. Thus, for example, à propos the expiation of the prodigies in 207 BCE , Livy at $27,37.6$ spells out a significant haruspical rôle.

It was unnecessary for members of religious bodies to possess religious beliefs, or, with the exception of the haruspices, to have acquired any special training. Entry by an individual into the college of pontifices was elsewhere dependant on the fulfilment of certain criteria: the candidate had to be a Roman citizen, of free birth, and without bodily defect, ${ }^{29}$ and he also had to be free of personal enmity towards any other member of the body concerned. ${ }^{30}$ Yet despite possessing all of these admirable and necessary qualities, a man might still find himself rejected for what amounted to political reasons due to the lack of some unspecified characteristic or qualification. Comparatively early, the Roman priesthood in particular emerged as the first rung on the ladder of political advancement. As Hahm ${ }^{31}$ explains:

A priesthood may well have been a form of political patronage, in which the new priest was bound to friendship with the man already in the college. In exchange for his support of fellow-priests in the comitia and on the senate floor, a new priest could expect backing when his own turn came to

[^9]run for office. With some of the most influential men of the Roman nobility behind him, he was virtually guaranteed a successful political carect.

Men whose political ideas were in any way at variance with those of the existing college members were highly unlikely to be co-opted into the pontificate.

It was in the hands, then, of often politically-motivated groups that the responsibility of the maintenance of the pax deorum really lay, and if, by some chance, the pax were ruptured, it was incumbent on one or all of them to effect a repair and reestablish the peace on whose maintenance it was believed the whole city and her people were dependent.

## B. Prodigia and their Processing

Rupture of the pax deorum was most conspicuously evidenced by the appearance of prodigia, manifestations which appeared to violate the natural order of the world as the Romans conceived it. "Leur vision de l'Univers était concrète, pragmatiste," as Bloch ${ }^{32}$ expresses it, and these occurrences struck them as bizarre, symptomatic of extreme dislocation, and therefore profoundly threatening. Prodigia ranged from such common and, to us, natural occurrences like lightning strikes and birth defects through more complex and weird, but still basically real, phenomena such as 'blood' and stone rains and armies battling in the sky, to patently counterfactual reported wonders such as talking cows.

Far from being prefigurative signs, messages in a kind of code from the gods to man, regarding either the near or distant future, ${ }^{33}$ prodigia were originally regarded

[^10]simply as expressions of the gods' anger, of the disruption of their pax. ${ }^{34}$ Fundamentally negative, they were conceived of as non-specific warnings from the gods of incipient misfortune, unless appropriate placatory measures were taken. ${ }^{35}$

The whole process from observation and reportage of prodigies through to their expiation (procuratio prodigiorum) was lengthy and involved. It comprised the passage of testimonies from around the country to the officials in Rome, meeting of the consuls with the Senate, interviews of witnesses, consultation of experts, and finally the actual expiatory ceremonies which could sometimes take almost a year to complete. ${ }^{36}$

Prodigia could be observed by anyone, common citizen, official, or priest. They were then announced to appropriate officials (nuntiatio). At the beginning of each year, according to standard practice reflected in Livy, ${ }^{37}$ one or both of the consuls would read these collected reports to the Senate (relatio). Since consular presence and supervision were apparently essential, this had to be done before the consuls left for their provinces.
conferred with the Senate (consulere senatum de prodigiis). Following due consideration, the Senate then voted on which public prodigies would be accepted and expiated in the name of the State (suscipere prodigia). There were two criteria in accordance with which the Senate could legitimately refuse to accept reported prodigia. The first was if the prodigy did not concern the entire city, having occurred either on private or foreign land. ${ }^{39}$ In this case, a procuratio privata was deemed sufficient, performed by the individual or group who had been witness to the unnatural phenomenon. The second related to the establishment of the authenticity of the reported prodigium. If there had been only one witness, or if the witnesses were not considered to be wholly trustworthy, the report was rejected. ${ }^{40}$ The Senate was ultimately responsible for organization of the ceremonies required for expiation of those prodigies that were accepted. ${ }^{41}$

It has been suggested by Ruoff-Väänänen ${ }^{42}$ that, "it was in the interest of the Senate to accept as few prodigia as possible, because they always alarmed the citizens and were easily interpreted as signs of the gods not being favourably disposed to its policy." If so, only the more striking and unnerving prodigies would be likely to survive a pragmatic cull. Be this as it may, the appearance of prodigies reflective of the ira deorum did not mean that disaster was inevitable, and that all man could do was passively wait for
prodigies and by their expiation).
${ }^{39}$ LIVY, 43,13.6: duo non suscepta prodigia sunt, alterum quod in p.ivato loco factum esset,
.. alterum quod in loco peregrino (two prodigies were not treated as public matters, the one
because it took place in a privately-owned spot, ... the other because it occurred in a non-Roman
place).
${ }^{40}$ Livy, 5,15.1: prodigia interim multa nuntiari, quorum pleraque, et quia singuli auctores erant, parum credita spretaque (meanwhile many prodigies were reported, most of which, because they had only one witness each tc verach for them, obtained no credence and were slighted).
${ }^{41}$ BloCH (1963), pp. 120-1.
${ }^{42}$ Ruoff-VÄäNÄNEN (1972), p. 141.
catastrophe to befall him. There would have been no use even in reporting the phenomena concerned let alone elaborate procedures involving Senate, magistrates and religious authorities if the evil they presaged was una:le to be avertea. Strenuous effort on the part of appropriate functionaries to perform expiatory ceremonies correctly, and on that of the common citizen to abstain from work while these were being executed, could turn the threatened tide of trouble from them. To this end, the details of the accepted prodigia were submitted to all the principal religious groups, the pontifices, the Xviri Sacris Faciundis and, on occasion, the haruspices.

It was the responsibility of the religious authorities eventually evoked to decip' the prodigia. The gods, Cicero explains, partly reflecting a Stoic viewpoint, not only sent signs to man to reveal their designs, ${ }^{43}$ gave them the ability to determine the correct expiatory procedures by way of consultation of whatever sources were available and unique to them. The procedures once determined, the Senate was duly informed. It could then choose to accept or reject all or some of the religious authorities' prescriptions, since, although the latter had the right and expertise to prescribe religious ceremonies and institutions, they did not have the final authority to impose them on the State. ${ }^{44}$

[^11]Expiation was far from an easy process of routine execution. Some phenomena warranted their own special forms of expiation, whilst general unspecified forms sufficed for others. Methods effective in the past could be regularly reapplied, such as the novendiale sacrum, the standard expiatory nostrum employed after a rain of stones. Involved was an expiatory period of nine days during which no public business could be transacted; the consequent dislocation might be compounded if such showers were immediately successive. ${ }^{45}$ Other occurrences elicited iifferent responses on different oc.asions, though generally there was a sacrifice of suckling (lactantes) and/or fully-grown (maiores) victims, such as in 217 BCE when, it was decreed ut ea prodigia partim maioribus hostiis, partim lactentibus procurarentur... (that these prodigies should be expiated, in part with greater, in part with lesser victims). ${ }^{46}$ Common responses, too, were ritual processions of the entire, or groups of, the populace and the lectisternium, involving setting offerings of food before the images of the gods placed upon cushioned couches. When there were prodigies which had not been previously encountered, or when the methods employed were deemed to have failed, more specialized authorities than the

[^12]pontifices were likely to be called in: the Xviri Sacris Faciundis, keepers e Sibyline
Books, and/or the haruspices.
On occasion, when consuited for the same prodigy or set of prodigies, Xviri and haruspices would dictate very different rites and ceremonies, offering interpretations that were at times quite at variance with each other. Rivalry is in clear evidence. ${ }^{47}$ An arresting case of such can be found in Livy's account of a prodigy of 172 BCE. At a time when the State was at ever-pitch because of the Macedonian war, the Senate ordained that the phenomenon concerned - a destructive lightning strike to the columna rostra - be handled by both the haruspices and the Xviri. The latter were instructed to consult the Sibylline Books. Interpretations of the prodigia and proposed expiations had nothing in common with each other:
decemviri lustrandum oppidum, supplicationem obsecrationemque habendam, victimis maioribus sacrificandum et in Capitolio Romae et in Campania ad Minervac protsturium renuntiarunt; ludos per decom dies Iovi optimo maximo pi:imo quoque die faciencius. ea omnia cum cura facta. haruspices in bonum versurum id prodigium, prolationemque finium et interitum perduellium portendi responderunt, quod ex hostibus spolia fuissent ea rostra, quae tempestas disiecisset (the Xviri reported back that the city should be purified, that a period of supplication and prayer should be held and that sacrifices of full-grown victims should be offered both on the Capitoline at Rome and in Campania ait the promontory of Minerva; further, that at the earliest possible moment games for ten days should be celebrated in honour of Jupiter Optimus Maximus. All these directions were scrupulously obeyed. The haruspices pronounced that this omen would turn out for the best, and that an extension of frontiers and the destruction of the enemy were foretold, because those beaks which the storm had overthrown had been spoils taken from the enemy). ${ }^{48}$

[^13]This is a particularly interesting incident because up until this time, a prodigy had always been considered a foreboding sign, indicative of divine anger. From the interplay of sacerdotal rivalry, there now emerges the concept of a 'good' prodigy, a phenomenon that promises success rather than foreshadows potential disaster.

The prescriptions of the pontifices could also be at odds with those of the haruspices, especially when particularly striking prodigia required extraordinary and extreme reaction. In 207 BCE, when an hermaphrodite was discovered at Frusino,
id ve.' haruspices ex Etruria adciti fcedum ac turpe prodigium dicere: extorrem agro Ro: ทano, procul terrae contactu, alto mergendum. vivum in arcam condidere provectumque in mare proiecerunt. decrevers item pontifices ut virgines ter novenae per urbem euntes carmen canerent (in fact, the haruspices summoned from Etruria said it was a terrible and loathsome prodigy; it must be removed from Roman territory, far from contact with earth, and drowned in the sea. They put it alive into a chest, carried it out to sea and threw it overboard. The pontifices likewise decreed that thrice nine maidens should sing a hymn as they marched through the city). ${ }^{49}$

Despite these differences, there appears to have been no open warfare beiween the groups, and the religious dictates of one carried as much weight with the Senate as those of the other.

It would be erroneous to assume that merely because the correct rites and rituals were undertaken at the right time by the right people to the right gods without any errors (the recognition of such would have required an instauratio, a matter of complete and hopefully now faultess repetition), the $p^{\sim} \quad \rightarrow r$ rum was automatically and instantly restored. Sometimes restoration could take considerable time, ${ }^{50}$ and, as it was necessary

[^14]for the consuls to discharge their religious responsibilities with respect to the prodigies before leaving for their provinces, ${ }^{51}$ there are instarices when departure had to be postponed. ${ }^{52}$ Once the expiatory measures had been duly taken, and patently accepted by the gods, the city and her people were free to return to normal, secure in the knowledge that they had appeased their gods and the pax deorum had been repaired. The city was safe.

[^15][^16]
## C. Prodigia and Ancient and Modern Science.

The profile of prodigia at Rome was highest in the late early and middle republican periods. In the republic's late period, with its institutions in decline, one can observe a distinct decrease in prodigies accepted and recorded. For all their defectiveness, the lists of prodigia collected by Julius Obsequens from the lost books of Livy from 46 onwards tell a clear story. After the Social War in particular, prodigies are increasingly few and far between. By Imperial times such reporting and processing of prodigies as took place was more a matter of antiquarian tradition than genuine religious concern. At one level concern for greater administrative efficiency may have contributed to a long process of attrition. Realizing that magistrates and religious personnel could spend an inordinate amount of time on prodigial expiation the Senate increasingly leaned in the direction of curtailment of those accepted and processed. A climate conducive to such a strategy cannot but have been furnished by growth of sophistication in natural history.

As time passed and scientific knowledge increased, some phenomena which had previously been counted as prodigies came to be recognized as normal and natural occurrences. Lunar eclipses are a case in point. Their graduation, not only in intellectual circles, from portent to routine astronomical occurrences is reflected in Paullus' exploitation of such an eclipse on the eve of the battle of Pyona in 168 BCE. Livy ${ }^{3}$ provides the following account:
C. Sulpicius Gallus... consulis permissu ad contionem militibus vocatis pronuntiavit, nocte proxima, ne quis id pro portento acciperet, ab hora

[^17]secunda usque ad quartam horam noctis lunam defecturam esse. id quia naturali ordine statis temporibus fiat, et sciri ante et praedici posse. itaque quem ad modum, quia certi solis lunaeque et ortus et occasus sint, nunc pleno orje, nunc senescentem exiguo cornu fulgere lunam non mirarentur, ita ne obscurari quidem, cum condatur umbra terrae, trahere in prodigium debere (Caius Sulpicius Gallus... summoned the soldiers to an assembly by permission of the consul, and announced that no one should regard it as a bad omen when on the following night an eclipse of the moon would take place from the second to the fourth hour of the night. Since this occurred in the regular order of nature at certain times, said Sulpicius, it could be calculated ahead of time and foretold. Therefore just as they were not surprised - inasmuch as the risings and the settings of the sun and moon are well understood - when they saw the moon shining now full, now during its wane with a narrow arc. no more ought they to count it a prodigy that the moon is darkened whenever it is hidden in the shadow of the earth).

In Cicero's de Republica, 1.23-4, Scipio tells Tubero of the events that Livy thus came to record. The latter is prompted to ask if Gallus had been able to convince homines agrestes of this scientific ability to foretell the occurrence of an eclipse. Scipio replies that not only had he succeeded, but at the same time, rem enim magnam adsecutus, quod hominibus perturbatis inanem religionem timoremque deiecerat (he accomplished a very important result in relieving the troubied minds of the soldiers from foolish superstitious fear).

While ancient science may have contributed to a progressive devaluation of prodigia within their own cultural environment, exploitation of items in the prodigial records has become a significant preoccupation of its contemporary counterpart. Once historians such as Krauss ${ }^{54}$ and Newton ${ }^{45}$ had carried out pilot examinations and classifications of Livian and other prodigy lists it became clear that while not a few prodigies reflected deluded credulity (talking cows are a case in point) or even fraud

[^18](weeping statues may exemplify this category), others were a matter of remarkable observations grounded in reality. Persistently impervious to explanation in the context of ancient natural history and so readily interpretable by the Romans as manifestations of divine ire, the reported occurrences concerned clearly included instances of significant and sometimes rare natural phenomena that deserve serious scientific attention.

For example, at least some rains of stones regarded as prodigia might be identifiable as meteorite showers such as that which fell on the Ugandan village of Mbale in August 1992. ${ }^{56}$ Partly on the basis of such evidence, Rasmussen ${ }^{57}$ has sought to compile a list of accretionary events on earth between 700 BCE and 1850 CE and claimed that a 1050-year periodicity is demonstrated, a result that could not have been obtained in the absence of observations from the ancient Roman world. Again, and possibly more farreaching, many prodigial notices suggest that the witnesses may have observed displays of the aurora borealis. Since aurorae at minauroral latitudes such as those of Italy calibrate with peaks of solar activity, both D. J. Schove ${ }^{58}$ and Richard Stothers ${ }^{59}$ have

[^19]set out to deploy the reports concerned towards establishing maxima and minima of the solar cycle of the ancient past. The results of such projects may turn out to have major significance in respect of solar physics and climate modelling. Yet again, prodigial reports that suggest observations of comets ${ }^{60}$ may contribute important data towards understanding the behaviour of such bodies in general, towards establishing relative frequencies of past and present visitations, towards comparison of past and recent phenomenologies, and, finally, towards more accurate determination of the periodicities of relatively short-term comets such as the well-know P-Halley. Even, to conclude a list of examples that could be easily extended, records of lightning strikes and storms have a valuable rôle to play as barometers of ancient weather conditions and patterns. In a nutshell, scientific exploration and deployment of the Roman prodigial records is indisputably capable of yielding valuable contributions to astronomy and meteorology, not to mention seismology and vulcanology (earthquakes and eruptions features conspicuously among them), our knowledge of the fauna and flora of the ancient Mediterranean world, and, not least, to the frequency, symptoms and morbidity of plagues and epidemics at Rome and beyond.

Although the potential yield of scientific studies relating to prodigial records is undeniably immense, there are some fundamental problems with the effective exploitation of such material that are insufficiently appreciated and acknowledged by the scientists so far involved. First, none of those whose work I have encountered demonstrates comprehensive knowledge of the available data base. In the absence of such, some, if not all, investigations involving exploitation of prodigia, not to mention other ancient reports

[^20]bearing on phenomena of scientific interest, cannot but be severely compromised. If, for example, the aim is to reconstruct the solar cycle in remote periods on the basis of prodigial notices and related records, then it is essential that no data of relevance should be omitted. The fact is that comprehensive data assembly is no easy matter. Few scientists are aware of the variety of ancient texts in which items of significance are embedder and consequently their search for material tends to be confined to mainstream writers, who are also the most likely to find translators. If collection for scientific purposes of data drawn from the works of Greek and Roman antiquity is to be truly exhaustive, then it is essential to draw upon the expertise of specialists in the classical world equipped with knowledge of its key languages.

A second problem with attempted exploitation by scientists of prodigial records arises from insufficient awareness of or inattention to the purport of significant details in the direct accounts of portents assembled, and, simultaneously, oblivion to representations of relevance in other ancient writings. Stothers' efforts to deploy reports of aurorae towards reconstruction of the solar cycle in ancient times feature a striking case in point. A prodigium noted in all periods is blood rain. Influenced by the fact that aurorae observed at minauroral latitudes are commonly red, Stothers ${ }^{61}$ insists that most cases at least of blood rain reflect witnesses' reports of such displays. This interpretation fails to take into account that the prodigial notices concerned give no indication that whatever phenomenon was in question took place during the night, that some blood rains are confined to tiny areas like temple precincts and therefore more likely to be a matter of

[^21]some kind of purported deposit on the ground than a manifestation in the sky, ${ }^{62}$ that in one case it is spelled out directly that the blood rain consisted of blood-coloured droplets, ${ }^{63}$ and, finally, that Cicero's rationalist explanation of blood rains at de divinatione, 2.58 as due to discolouration as a result of some kind of mineral contamination (decoloratio quaedam ex aliqua contagione terrena) takes for granted that they were some kind $\therefore$ precipitation. ${ }^{64}$ Stothers' failure to take the Cicero passage into account provides a further illustration of the necessity for ensuring the comprehensiveness of one's data bank.

A third problem facing would-be exploiters of prodigial notices and other ancient records of significant natural phenomena is that of chronological precision. To ensure the maximum utility of such data it is essential to be certain of at least the year in which a phenomenon of interest occurred and preferable to be in a position to pin it down even further, to a particular month or even day. Unfortunately, while books and articles by historians of the Roman republic give the impression that Roman civil and consular years have precise proleptic julian equivalents, this is far from the case. Even in respect of the first few decades after the Julian calendar's inception, a period, to be precise, extending from 45 BCE to 7 CE , calibration of julian and Roman civil years is not completely certain due to pontifical miscalculations, and for the whole period of the republic prior to the reform undertaken by Caesar in 46 BCE, the discrepancy between consular and seasonal years may at times amount to many months. It is essential to grasp that for the

[^22]superficially most tractable republican sub-period from 153 BCE - 46 BCE, during which the consular year commenced on the Kalends of January of the Roman civil calendar, rather than, as previously, the Ides of March, there is not a single consular year which does not to a greater or lesser extent straddle two proleptic julian counterparts. The majority of those who have sought to make scientific use of prodigial notices are oblivious to the difficulties concerned, ${ }^{65}$ as also, one suspects, are many specialists in ancient history, culture and literature who ought to know better.

Fourth, and finally, it is important that those who work with prodigial material not be completely lacking in acquaintance with the background and mindset of the ancient writers who are the principal providers.

[^23]
## D. Present Programme

If records of prodigia are to be exploited scientifically to maximum effect, then it is essential that the astronomers, sieteorologists, earth scientists and so forth concerned have at their disposal both a complete data base with no pertinent related information lacking and the best possible equipment for calibrating Roman civil and consular years with proleptic julian counterparts. My eventual aim is to provide both of these requirements in respect of the entire period of the Roman republic. The present work is the first instalment of an ongoing project to this end. Encompassed is the period from 218 - 167 BCE inclusive.

This initial choice has been dictated by the circumstances that the prodigial record for these years is likely to come closest to being complete. The reason for the period's privileged status in this respect is bound up with the Roman historian Livy who, during the reign ( $31 \mathrm{BCF}-14 \mathrm{CE}$ ) of the first Roman emperor Augustus, compiled a massive narrative history of Rome in 142 books that commenced with the city's foundation and had reached 9 BCE at the time of the historian's death. Livy is our principal source for prodigial records. Of his 142 books, only 1-10 and 21-45 completely, or almost completely, survive. ${ }^{66} 1-10$ whose subject matter is Rome's early years are as much mythical as historical in content and contain few trustworthy records of any kind. 21-45 relate to the period 218-167 for which Livy had at his disposal adequate source material

[^24]and which feature copious prodigia as well as other material going back ultimately to early records compiled by the pontifices and other functionaries.

After 167 we are reliant for subsequent Livian prodigial material for the most past on the shadowy Julius Obsequens and to a much lesser extent on Orosius. Sometime in the fourth century CE, the former set out to compile consular annual lists of prodigies from the books of Livy all still extant in his time, covering the period from the 55th year (approximately equivalent to 249 BCE ) after Rome's founding ${ }^{67}$ until the end of the republic and a little beyond. The first part of Obsequens' work is lost and from the portion that survives several blocks of material are missing. In addition, from comparison of his extracts with the original Livian lists in books 37-45 it emerges that Obsequens was a somewhat careless and slipshod compiler. In the fifth century CE, Orosius wrote a work entitles Histories against the Pagoins that commenced with the creation of the world and eventually followed the fortunes of Rome down to 417 CE . Orosius' account of the republican period is basically an epitome of Livy and from time to time particularly striking lists of prodigies are inserted in the narrative.

Turning to structural particulars, the main body of the thesis falls into two parts. In the first I attempt to construct new, best fit calibration tables for Roman consular years and proleptic julian counterparts for the period 218-167 BCE in the first place and then, as an adjunct, down further until 153 BCE when the start of the consular year was shifted from the Ides of March to the Kalends of January. There have, of course, been many previous attempts to calibrate the Roman republic and proleptic julian calendars, but in my view all of these are vitiated to a greater or lesser extent by flawed methodology and disregard for parts of the evidence available. I have dealt with calendrical matters prior

[^25]to setting out the ancient data relating to prodigia from 218-167 BCE since the comments on some items involve chronological matters and discussion is conditioned on occasion by calendrical results.

In the second part I endeavour to present all extant data bearing on prodigia observed in the years 218-167 BCE inclusive. The focus of the first section is Livy, as already indicated, our main source and authority. Following some introductory material on the historian and his probable immediate and ultimate sources, his prodigial lists are set out year by year. Included are not only the prodigial notices themselves but also reported details, sometimes extensive, concerning expiation. While not normally the subject of later comment, the latter material deserves inclusion nevertheless since the greater or lesser extent of expiatory measures provides a useful gauge with respect to the relative seriousness with whicl the Romans regarded various manifestations. To the Livian excerpts I had added, for the sake of completeness, derivative lists of prodigies from Julius Obsequens and Orosius, whose epitomes have been referred to above. Comparison of extracts with originals provides salutary indications of the caution with which both writers must be approached in respect of the many years where Livy's primary account is no longer available. The Livian and derivative prodigial material for each year is follow by brief comments that relate to matters of significance to potential scientific exploiters. Some comments revolve around chronological matters, others relate in various ways to identification of phenomena and others again draw attention to comparative and elucidatory material in other ancient sources. While, to repeat, there are comments dealing with identification of phenomena, it should be emphasised at once that I have not sought to identify definitively each and every prodigium likely to be of scientific interest. In many cases such activity is best left to scientific experts themselves.

In the second section of part 2, prodigial notices for the period 218-167 BCE in ancient sources other than Livy are collected in chronological order. The writers concerned are Valerius Maximus, the elder Pliny, Plutarch and Cassius Dio, either directly or through a Byzantine epitomator, Zonaras. In each case again, as for Livy, introductory material on the writer concerned is followed by reports of prodigia set out year by year, and then brief comments. A significant proportion of the comments is bound up with the important matters of the reliability and comprehensiveness of the Livian lists. Did Livy seek to provide a complete and scrupulously accurate record of prodigies accepted and processed in each year, or was he to a greater or lesser degree careless and selective, leaving out, for example, items that he considered trivial, or suppressing various items for dramatic reasons? The answer to such questions is obviously of considerable importance to anyone using the Livian lists of prodigies for scientific purposes. If the lists are demonstrably far from complete, then, for example, an attempt to reconstruct solar cycles on the basis of prodigies reflecting aurorae would be compromised due to possible absence of part of the evidence.

An obvious approach towards accessing Livy's accuracy and comprehensiveness, or lack of them, is to compare his annual lists of prodigies with those in other writers. Are there or are there not prodigia recorded by the latter of which Livy makes no mention? To anticipate a little, it will emerge that while almost all of the prodigies listed elsewhere have precise counterparts in Livy, there appear to be one or two items that differ in respect of some detail or other and one or two again that appear to have no counterpart at all. In a final subsection I shall suggest that some at least of the discrepancies are apparent rather than real and that the Livian lists are as likely as not to be more or less complete. If so, it would follow, for example, that variations in the
annual number of prodigies listed by Livy reflect the true situation rather than the historian's artifice or inconsistence. It would follow too that scientific exploiters could have a fair degree of confidence in the comprehensiveness of the prodigial data base for the years 218-167 BCE inclusive.

## Part Two

## Roman Consular Years

 from 218-167 BCE and the Proleptic Julian Calendar
# Chapter Two 

The Roman Republican Year

## A. The Basis of the Calendar

The design of a calendar is determined by the use to which it is to be put. The precision with which it measures time is dictated by need. Man's first divisions of time were seasonal - when snow would be coming, how long between harvests, when to sow. Nature, he found, had provided the perfect means by which these divisions could be reckoned in the regular recurrence of obvious phenomena, the most conspicuous of which were the risings and settings of the sun, the phases of the moon, and the heliacal and other risings and settings of fixed stars. Of these, the most pragmatically reliable for measuring the seasons are stellar risings and settings. The stars change their position during the course of the tropical year, but appear in approximately the same place at approximately the same time every year. Farmers in particular were concerned with the calendrical indications of the stars, and Varro and Columella ${ }^{1}$ above all illustrate such preoccupation in their agricultural treatises.

As man's society developed beyond a simple subsistence stage, the need arose for smaller subdivisions of time. Since this was not fulfilled by the stars, another method by which the passage of time could be marked was required. Observance of the sun and the moon afforded this.

[^26]The solar year is marked by the passage of the sun along the ecliptic, with the seasons being dependent on its place there with reference to the equinoxes. ${ }^{2}$ The length of time taken by the sun to cross the vernal equinox twice, called the tropical year, is $365^{\mathrm{d}}$ $5^{\mathrm{h}} 48^{\mathrm{m}} 46^{\text {s }} .0$ of mean solar time. If, due to an inability to deal with the fraction, ancient man had taken as his tropical year one that was 365 days in length, then he would thus have lost one day in every four years. Such a loss would have been barely noticeable in a lifetime, but after a period of 730 years, winter would have occurred in the months that were supposed to be summer.

The tropical year could conveniently be divided into roughly equal seasonal parts as the sun took approximately 94 days to travel from vernal equinox to summer solstice, 92 days from summer solstice to autumnal equinox, 89 days from autumnal equinox to winter solstice, and 90 days from winter solstice to return to vernal equinox. ${ }^{3}$ Even though now a person could know with greater accuracy in approximately how many days he could sow, or perform certain ceremonies, there was still no useable subdivision of the year larger than a day but smaller than a season. This was provided by the moon.

A sidereal month, the length of time it takes the moon to complete a circuit of the ecliptic, is on average about $271 / 3$ days. As the earth itself has moved in relation to the

[^27]sun, after completing a sidereal month, the moon is no longer in tise same position with regard to the earth-moon-sun line. In order to catch up with the sun's passage along the ecliptic, it is necessary for two more days to pass until the moon is again in conjunction with the sun. The period between the two conjunctions of the sun and moon is a synodic month, and it is this month that is used in lunar calendars. ${ }^{4}$

This synodic (or lunar) month is approximately $29^{\text {d }} 12^{\mathrm{h}} 44^{\mathrm{mm}} 2^{\mathrm{s}} .78$ long, and is therefore much more convenient as a subdivision of time than a solar year due to its shortness, its determinable beginning and end, and its distinct phases that recur at regular intervals - the new moon, the half moons, and the full moon. While theoretically a month should commence with the new moon in the strict sense, it was easier for man, reliant on empirical observation, to use the first visibility of the crescent moon as the actual startingpoint. As with all empirical observation, sighting of the lunar crescent was subject to human fallibility and the vagaries of nature. Atmospheric conditions contributing to poor visibility of the moon could delay the official beginning of a month by one or two days, rarely more because through experience men would have learnt that lunar months were 29 or 30 days long, and never less. Unfortunately, the number of whole lunar months that can fit into a tropical year of $3651 / 4$ days is 12 , which equals only, on average, 354 days, a little more than 11 days too few. Consequently, if a repeating cycle of 12 lunar months were used to define a 'year', the calendar would move ahead of the seasons by 11 days each year. Such discrepancy being intolerable, it was necessary to adjust the calendar to the solar year by a process of intercalation, adding a certain number of extra days to a 'year' at regular intervals. The realization of the possibility and plausibility of such a

[^28]technique would have occurred through recognition of the accidental addition of one or two days when the beginning of the month was wholly reliant upon empirical observation.

A calendar that was based on the solar year and day, but also used the subdivisions provided by the moon, is called a luni-solar (or lunar) calendar. The months can be kept in correct relation with the phases of the moon by the process of intercalating a day, and the year can be kept in correct relation with the season by intercalating a whole month at determined and irregular intervals. In order to determine these intervals, it is necessary to discover a number of years and a number of months for both of which the number of days is the same.

By empirical observation of the equinoxes or solstices, and of the moon, one can find out that 8 solar years contain 99 lunar months. If then, over a period of 8 years, one adds 3 months to the 96 months contained in 8 lunar years, one should be able to keep the calendar regulated by both sun and moon,
states Michels ${ }^{5}$ and then goes on to add that "actually this system will never work exactly because of the incommensurability of the day, the month, and the year." This rough and ready system could be made to work relatively well by occasional correction, but always required the intercalation of months and of individual days. Ultimately, sophisticated calendar makers availed themselves of the so-called Metonic and Callippean cycles involving recognition, respectively, that 19 tropical years contain very close to 235 synodic lunar months and 76 tropical years even closer to 940 synodic lunar months.

Regardless of the method used to construct a calendar, it only had one purpose.
In the words of A. E. Samuel, ${ }^{6}$

[^29]A calendar is a device for applying manipulation to the counting of months and years in order to provide some standard for recording the passing of time and for designating days and months by agreed terminology.

Every calendar endeavoured to achieve this end one way or another, and the Roman calendar was certainly no exception.

## B. The Roman Civil Year

The calent ar of the Roman republic comprised twelve months: Januarius, Februarius, Martius, Aprilis, Maius, Junius, Quintilis (eventually renamed Julius), Sextilis (in the Imperial period renamed Augustus), September, October, November, and December. Martius, Maius, Quintilis, and October were thirty-one days in length, Februarius of twenty-eight, and the other months of twenty-nine days. The 355 days of this year strongly suggest that it was originally based on the lunar year, but months of thirty-one days, twenty-nine days, twenty-eight days, and an intercalary block of twentytwo or -three days show that the calendar of this period was not intended to maintain a strict relation with the moon, and had broken away from: the lunar cycle. ${ }^{7}$ Six of these months are numbered rather than named, from which it may be inferred that an official or religious year once began in March. ${ }^{8}$ After a period of mobility, ${ }^{9}$ the Roman republican consular year came to commence on the Ides of this originally inceptive month; however, the religious and political year was usually counted from January. In 153 BCE,

[^30]the consular year and the calendar counterparts were brought into line. Consequently, as neatly explained by Michels, ${ }^{10}$

> When a Roman historian refers to an event prior to 153 B.C. as taking place at the beginning or end of the year, he is thinking in terms of the consular year. The calendar year, on the other hand, contains no variable elements, but is valid for any year. Its function is to provide dates within any one year, or dates which recur in a regular cycle. The dates of religious observances are determined by the calendar year, as are those of business transactions. In treaties between Roman and other states periods of time were defined in terms of the calendar year.

For the Romans, then, there were, in a manner of speaking, two beginnings to the year, one bound up with the entry of magistrates into office, the other with all other religious and official circumstances.

Each month consisted of three unequal divisions. The first day of the first division and of the month as a whole was the Kalendae, or Kalends. The second division commenced with the Nonae, or Nones, the fifth or seventh day of the whole month depending on its length. The third division began with the Idus, or Ides, the thirteenth or fifteenth day of the whole month, again depending on its length. On Kalends, Nones, and Ides certain ceremonies occurred, ${ }^{11}$ and it has been claimed ${ }^{12}$ that the three divisions owed their origin to the phases of the moon: the Kalends was the day after the first visibility of the new crescent moon, the Nones was the first quarter, and the Ides the full moon. If this is indeed the case, then the divisions must have been carried over from the time when the Romans had a true lunar calendar.

[^31]Unlike our own calerdar, the Roman republican counterpart did not attach sequential or recurring names to successive days. Certain days could be referred to by the festivals that occurred on them providing that the festivals concerned were fixed, and not moveable. ${ }^{13}$ Other days, as noted imnediately above, were named on the basis of a former lunar division. It is from these named days that other days found their designation.

The Romans employed the peculiar system of counting backwards from the three divisional days. The count was inclusive, a practice to be born in mind at all times when dealing with Roman calculations. What the modern calendar would call the 10th of April, the Roman civil calendar would describe as ante diem Iv Idus Aprilis (a.d. N Id. Ap.). Days after the Ides of one month were counted back from the Kalends of the next, so that, for example, the 29th of April would have been ante diem III Kalendae Maiae (a.d. III Kal. Mai), and the 30th of April pridie Kalendae Maiae (prid. Kal. Mai).

A key but vexatious problem must now be confronted. The 355-day year of the Romans was out of calibration with the tropical year of approximately $365 \frac{1 / 4}{}$ days and so it was necessary to add from time to time a number of days to the year sufficient to compensate for the imbalance. In accordance with what principles and rules, if any, were these intercalary years determined?

[^32]
## C. The Intercalary Years

## 1. Preface

The only ancient writer who attempted to describe the Roman practice of intercalation with real comprehensiveness is the late, (possibly) African, Ambrosius Theodosius Macrobius, floruit c. $400 \mathrm{CE} .{ }^{14}$ The work in question is the Saturnalia, an academic symposium compiled for the author's son's education as a gentleman, and comprising methodically arranged philosophical, historical and scientific topics. The Saturnalia includes a lengthy section on the Roman republican calendar. Macrobius' account of intercalation being the basis of the present, as of previous, discussions, the relevant passage is quoted in full, both in Latin and in the English translation of P. V. Davies. ${ }^{15}$

Macrobius, Saturnalia 1,12.28-13.21:
$(1,12.38)$ Haec fuit a Romulo annua ordinata dimensio qui, sicut supra iam diximus, annum decem mensium, dierum vero quattuor et trecentorum habendum esse constituit, mensesque ita disposuit ut quattuor ex his tricenos singulos, sex vero tricenos haberent dies. (39) sed cum is numerus neque solis cursui neque lunae rationibus conveniret, non numquam usu veniebat ut frigus anni aestivis mensibus et contra calor hiemalibus proveniret, quod ubi contigisset, tantum dierum sine ullo mensis nomine patiebantur absumi quantum ad id anni tempus adduceret quo caeli habitus instanti mensi aptus inveniretur.

[^33]( $1,13.1$ ) Sed secutus Numa, quantum sub caelo rudi et saeculo adhuc impolito solo ingenio magistro comprehendere potuit, vel quia Graecorum observatione forsan instructus est, quinquaginta dies addidit, ut in trecentos quinquaginta et quattuor dies, quibus duodecim lunae cursus confici credidit, annus extenderetur. (2) atque his quinquaginta diebus a se additis adiecit alios sex retractos illis sex mensibus qui triginta !abebant dies, id est de singulis singulos, factosque quinquaginta et sex dies in duos novos menses pari ratione divisit, (3) ac de duobus priorem Ianuarium nuncupavit primumque anni esse voluit, tamquam bicipitis dei mensem, respicientem ac prospicientem transacti anni finem futurique principia; secundum dicavit Februo deo, qui lustrationum potens creditur. lustrani autem eo mense civitatem necesse erat, quo statuit ut iusta dis Manibus solverentur. (4) Numae ordinationem finitimi mox secuti totidem diebus totidemque mensibus ut Pompilio placuit annum suum computare coeperunt; sed hoc solo discrepabant, quod menses undetricenum tricenumque numero alternaverunt. (5) paulo post Numa in honorem imparis numeri, secretum hoc et ante Pythagoram parturiente natura, unum adiecit diem quem Ianuario dedit, ut tam in anno quam in mensibus singulis praeter unum Februarium impar numerus servaretur. nam quia duodecim menses, si singuli aut pari aut impari numero putarentur, consummationem parem facerent, unus pari numero institutus universam putationem imparem fecit. (6) Ianuarius igitur Aprilis Iunius Sextilis September November December undetricenis censebantur diebus et quintanas nonas habebant, ac post idus in omnibus a. d. septimum decimum kalendas computabatur. (7) Martius vero Maius Quintilis et October dies tricenos singulos possidebant. nonae in his septimanae erant similiterque post idus decem septem dies in singulis usque ad sequentes kalendas putabantur, sed solus Februarius viginti et octo retinuit dies quasi inferis et deminutio et par numerus conveniret. (8) cum ergo Romani ex hac distributione Pompilii ad lunae cursum sicut Graeci annum proprium computarent, necessario et intercalarem mensem instituerunt more Graecorum. (9) nam et Graeci cum animadverterent temere se trecentis quinquaginta quattuor diebus ordinasse annum - quoniam appareret de solis cursu, qui trecentis sexaginta quinque diebus et quadrante zodiacum conficit, deesse anno suo undecim dies et quadrantem intercalares stata ratione commenti sunt, ita ut octavo quoque anno nonaginta dies, ex quibus tres menses tricenum dierum composuerunt, intercalarent. (10) id Graeci fecerunt, quoniam operosum erat atque difficile omnibus annis undecim dies et quadrantem intercalare. itaque maluerunt hunc numerum octies multiplicare, et nonaginta dies, qui nascuntur si quadrans cum diebus undecim octies componatur, inserere in tres menses, ut diximus, distribuendos. hos dies $\dot{u} \pi \in \rho \beta \alpha i \nu o \nu \tau \alpha \varsigma$, menses vero $\dot{\epsilon} \mu \beta o \lambda i \mu o u \varsigma$ appellitabant. (11) hunc ergo ordinem Romanis quoque imitari placuit, sed frustra, quippe fugit eos diem unum, sicut supra admonuimus, additum a se ad Graecum numerum in honorem imparis numeri. ea re per octennium convenire numerus atque ordo non poterat. (12) sed nondum hoc errore comperto per octo annos nonaginta quasi superfundendos Graecorum exemplo computabant dies, alternisque annis binos et vicenos, alternis ternos vicenosque intercalantes expensabant intercalationibus quattuor. sed
octavo quoque anno intercalares octo affluebant dies ex singulis quibus vertentis anni numerum apud Romanos super Graecum abundasse iam diximus. (13) hoc quoque errore iam cognito haec species emendationis inducta est. tertio quoque octernio ita intercalandos dispensabant dies, ut non nonaginta sed sexaginta sex intercalarent, compensatis viginti et quattuor diebus pro illis qui per totidem annos supra Graecorum numerum creverant. (14) omni autem intercalationi mensis Februarius deputatus est quoniam is ultimus anni erat, quod etiam ipsum de Graecorum imitatione faciebant. nam et illi ultimo anni sui mensi superfluos interserebant dies, ut refert Glaucippus qui de sacris Atheniensium scripsit. verum una re a Graecis differebant. (15) nam illi confectû ultimo mense, Romani non confecto Februario sed post vicesimum et fertium diem eius intercalabant, Terminalibus scilicet iam peractis. deinde reliquos Februarii mensis dies, qui erant quinque, post intercalationem subiungebant, credo vetere religionis suae more, ut Februarium omni modo Martius consequeretur. (16) sed cum saepe eveniret ut nundinae modo in anni principem diem, modo in nonas caderent - utrumque autem perniciosum rei publicae putabatur - remediun quo hoc averteretur excogitatum est, quod aperiemus si prius ostenderimus cur nundinae vel primis kalendis vel nonis omnibus cavebantur. (17) nam quotiens incipiente anno dies coepit qui addictus est nundinis, omnis ille annus infaustis casibus luctuosus fuit, maximeque Lepidiano tumultu opinio ista firmata est. (18) nonis autem conventus universae multitudinis vitandus existimabatur, quoniam populus Romanus exactis etiam regibus diem hunc nonarum maxime celebrabat quem natalem Servii Tullii existimabat quia, cum incertum esset quo mense Servius Tullius natus fuisset, nonis tamen natum esse constaret, omnes nonas celebri notitia frequentabant: veritos ergo qui diebus praeerant, nequid nundinis collecta universitas ob desiderium regis novaret, cavisse ut nonae a nundinis segregarentur. (19) unde dies ille, quo abundare annum diximus, eorum est permissus arbitrio qui fastis praeerant, uti, cum vellent, intercalaretur, dum modo eum in medio Terminaliorum vel mensis intercalaris ita locarent, ut a suspecto die celebritatem averteret nundinarum. atque hoc est quod quidam veterum rettulerunt non solum mensem apud Romanos verum etiam diem intercalarem fuisse. (20) quando autem pximum intercalatunn sit varie refertur. et Macer quidem Licinius eius rei originem Romulo adsignat. Antias libro secundo Numam Pompilium sacrorum causa id invenisse contendit. Iunius Servium Tullium regem primum intercalasse commemorat, a quo et nundinas institutas Varroni placet. (21) Tuditanus refert libro tertio Magistratuum decem viros, qui decem tabulis duas addiderunt, de intercalando populum rogasse. Cassius eosdem scribit auctores. Fulvius autem id egisse $\mathrm{M}^{\prime}$. Acilium consulem dicit ab urbe condita anno quingentesimo sexagesimo secundo, inito mox bello Aetolico. sed hoc arguit Varro scribendo antiquissimam legem fuisse incisam in columna aerea a L. Pinario et Furio consulibus, cui mensis intercalaris adscribitur. haec de intercalandi principio satis relata sint.
$(1,12.38)$ Such were the rules made by Romulus to measure the year. By his arrangement it was, as I have already said, a year of teen months and of
three hundred and four days; the months being so disposed that four had thirty-one days each and six had thirty. (39) But, since this method of reckoning agreed neither with the course of the sun nor the phases of the moon, it sometimes happened that the cold season fell in the summer months and, on the other hand, the hot season in the winter months; and, on these occasions, as many days were allowed to pass unassigned to any named month as were needed to make the current month fit the season of the year and the appearance of the sky.
$(1,13.1)$ Romulus was succeeded by Numa. From such knowledge as he could acquire with only his natural genius to teach him - living, as he did, in an unkindly climate and in an age that was still uncivilized - or perhaps learning something from the practice of the Greeks, Numa added fifty days to the year, to enlarge it to three hundred and fifty-four days, the period which he believed to correspond with the completion of twelve circuits of the moon. (2) To these fifty additional days he added six others, by taking one from each of the six months which had thirty days apiece, and the fiftysix days thus made available he divided equally to make two new months. (3) The first of these two months he named January and made it the first month of the year, as the month of the two-faced god who looks back to the year that is past and forward to the beginnings of the year to come. The second month he dedicated to Februus, the god who is believed to have charge over ceremonies of purification; for it was necessary that the city should be purified in the month in which Numa ordained the payment of due rites to the departed spirits. (4) Afterward the neighboring peoples followed Nuina's arrangement and began to reckon their year with the same number of days and months as he, but with this single difference, that they made their months consist of twenty-nine and thirty days alternately. (5) A little later, in honor of the odd number (a mystery which nature had brought to light even before the time of Pythagoras) Numa added a day to the year and assigned this day to January, in order that the principle of the odd number might be preserved and both the year and each month, with the sole exception of February, consist of an odd number of days. For, in a series of twelve months, if each month contained either an even or an oda number of days, the total number of days would be an even number, but to give one of the months an even number of days made the total of the number of days in the year an odd number. (6) And so it was ordained that January, April, June, Sextilis, September, November, and December should be months of twenty-nine days each, with the Nones falling on the fifth day of the month, and, in all of them, the day after the Ides being reckoned the seventeenth day before the next Kalends; (7) but March, May, Quintilis, and October had thirty-one days, with the Nones ralling on the seventh day of the month, and in each of these months too (as in the other seven months) the period after the Ides up to [and including] the following Kalends comprising seventeen days. February alone kept its twenty-eight days, as though the shortness of the month and the even number of its days befitted the denizens of the world below. (8) In consequence of this division of the year by Numa Pompilius the Romans were now calculating the length of their own year, like the Greeks, by the course of the moon. And so, like the Greeks,
they had to provide an intercalary month. (9) For, when the Greeks noticed that they had been careless in fixing the number of days in a year at three hundred and fifty-four (since the sun takes three hundred and sixty-five and a quarter days to complete its course through the zodiac, and it was therefore clear that their year was eleven and a quarter days too short) they devised a regular system of intercalation by which they inserted ninety days, arranged in three months of thirty days apiece, in each period of eight years. (10) The Greeks adopted this plan because it was troublesome and difficult to intercalate eleven and a quarter days each year, and they therefore preferred to multiply this number by eight and to insert the ninety days (which represent the product of eleven and a quarter days multiplied by eight) distributed into three months, as I have said. These days the Greeks used to call "supernumerary" and the months "intercalary". (11) The Romans resolved to follow this system too, but they were not successful, since they overlooked the fact that, as I have already reminded you, they had added one day to the Greek reckoning out of respect of the odd number, with the result that over the period of eight years there could be no conformity with the true position either in the number of the intercalated days or in their place in the calendar. (12) However, before the mistake was discovered, they calculated that in each period of eight years ninety days were to be reckoned as supernumerary, in accordance with the example of the Greaks, and they distributed these intercalary days by means of four intercalations, of twenty-two and twenty-three days alternately, every two years. But after every eighth year there was a surplus of eight intercalary days, the product of the single days by which, as we have said, the Roman reckoning of the length of their common year exceeded that of the Greeks. (13) When this error, too, was recognized, it was corrected as follows: in every third period of eight years sixty-six intercalary days were inserted, instead of ninety, to make up for the twenty-four days by which the Roman reckoning had exceeded the Greek in that number of years. (14) Intercalation was always made in the month of February, as the last month of the year; and here too the Romans followed the example of the Greeks, who also used to insert the supernumerary days in the last month of their year, as Glaucippus tells us, the author of an account of the sacred rites of the Athenians. But in one respect the Roman practice differed from the Greeks, (15) for, whereas the Greeks inserted these days at the end of the last month of the year, the Romans made the intercalation not at the end of February but after the twenty-third day of that month, that is to say, after the celebration of the festival of the Terminalia was over. They made the five remaining days of February follow the intercalation, in accordance, I take it, with their old religious custom, namely, to ensure that March should in any case come immediately after February. (16) However, it often happened that the market days would fall sometimes on the first day of the year and sometimes on the Nones of a month; and, since either event was thought to be disastrous for the state, a means to prevent such coincidence was devised, as I shall explain later, after I have shown why the holding of a market on the first Kalends of the year or on the Nones of any month used to be avoided. (17) Whenever the day with which a year began was
a market day, the whole of the year was one of unhappy occurrences and full of sorrow; and the disturbance for which Lepidus was responsible strongly supports this belief. (18) As for the Nones, it was considered that a meeting of the whole population should be avoided on that day because the Roman people, even after the expulsion of the kings, paid particular honor to the Nones, which they believed to be the birthday of Servius Tullius. For, although the month of his birth was uncertain, it was generally agreed that he was born on the Nones, and noticeably large crowds used therefore to collect every month to celebrate that day; and, since those who had charge of the calendar were afraid that, if the whole population assembled for market on those days, regret for the monarchy might lead to an attempt at revolution, they took care that the Nones and market days should not coincide. (19) Hence it came about that the disposal of that extra day, which, as I had said, was added to the year, was left to the discretion of the superintendents of the calendar to insert it where they would, the only proviso being that the day should be placed in the middle [sic] of the festival of the Terminalia, or of an intercalary month, in such a way as to ensure that a market day with its crowds should not fall on a day which was regarded with mistrust. And that is why certain of the old authorities have said that the Romans had not only an intercalary month but an intercalary days as well. (20) Different accounts are given of the beginning of the practice of intercalation. Licinius Macer attributes its origin to Romulus. Antias, in his secord Book, maintains that it was the invention of Numa Pompilius and that the reason for it was connected with the celebration of religious rites. Junjus says that the practice was begun by King Servius Tullius, who, according to Varro, also instituted the market day. (21) Tuditanus, in the third Book of his Magistracies, records that the decemvirs who added two to the Ten Tables of the Law brought a bill relating to it before the people; and Cassius writes that the same authorities were responsible for the practice. Fulvius, however, said that it was the work of the consul Manius Acilius in 562 A.U.C., just before the beginning of the Aetolian War, but Varro traverses this statement with a reference to an ancient law (engraved on a bronze column by the consuls Lucius Pinarius and Furius) to which the intercalary month is ascribed. Such, then, are the accounts which have been given of the practice of intercalation.

## 2. The Intercalary Month

As indicated above, the Romans used a calendrical system based on a 355-day year. Consequently, the calendar year was perpetually out of step with the tropical year, moving increasingly ahead, in advance, of the seasons with each subsequent year. ${ }^{16}$ Aware of this fact, the Romans sought to bring their year into line with the seasons by attaching 22 or 23 extra days to certain years determined by the pontifices. ${ }^{17}$ The precise procedure involved, which emerges above ail from the Antiates Maiores (henceforward Ant. Mai.), is complex. Depending upon whether 22 or 23 days were to be intercalated, the final five or four days of February were first isolated from the rest of the month which then ended on its 23 rd day, that of the Terminalia, or the 24th, associated with the Regifugium. The detached five or four February days were then added, respectively, to the 22 or 23 intercalary days, to conclude the mensis, month, intercalaris which consisted always of 27 days. Hence, the appearance in the final column of the Ant. Mai., after the twelve normal months, of an intercalary counterpart of such length. ${ }^{18}$ According to Michels, ${ }^{19}$ the

[^34]inventors of the eventual republican calendar, confronted by the difficulty in determining the exact length of the tropical year, must have been confident that, by beginning the intercalary month after either the 23 rd or 24 th of February, they could accommodate any error generated by such lack of precision. The two possibilities emerge most clearly from Livy, 43,11.13 and 45,44.3. According to the former: hoc anno intercalatum est: tertio die post Terminalia Kalendae intercalariae fuere (In this year there was an intercalation; the additional month began on the third day after the Terminalia). According to the latter:intercalatum eo anno; postridie Terminalia Kal. intercalariae fuerunt (There was an intercalation in this year; the day after the Terminalia was the first day of the intercalary month). The Terminalia, to reiterate, was celebrated on the 23 rd of February.

According to Macrobius, ${ }^{20}$ intercalation was normally biennial with 22 and 23 day insertions alternating. There were, he goes on, scheduled onilssions in each twenty-four year period designed to eliminate accumulated imbalances. The alternation of 22 and 23 day intercalations and the further refinements that Macrobius envisages quite possibly, although not necessarily, represent wisdom of hindsight, and to reflect a precision and contrivance absent from actual procedure. ${ }^{21}$

The motivation behind the effective placement of an intercalary month in the latter part of the last month of the eventual Roman consular year is a baffling thing. Logic would decree that any added days be positioned between the unequivocal last day of one month and the first day of another, but, as has been seen, intercalary blocks were inserted

[^35]after the Terminaliu (23rd February) or after the Regifugium (24th February). The Romans, then, were not logical. Obviously something other than logic prompted such a move.

It has been proposed that Terminus was initially recognized as the god not simply of boundaries, but of endings in general, ${ }^{22}$ and that the Terminalia was once upon a time, therefore, the last day of the year. Later this role was forgotten in favour of the one restricting Tel ninus to land boundaries.

It is not too much to affirm, therefore, that the ancient testimony is entirely in favor of the proposition that Terminalia was at a very early time the last day of the year. This time must of course have antedated the permanent addition to the year of five more days at the end of February, and the veginning of the correction of the annual calendar by intercalations... The intercalations were added to the original end of the year, as we should a priori expect would be the case. ${ }^{23}$

Merrill avers that the day after the Terminalia, the Regifugium, was historically not viewed as an integral annual component, but stood detached from both the end of the old and the beginning of the new year. ${ }^{24}$ This was the day on which the rex sacrorum, not to be confused with the ruling kings of Rome, was immolated, having completed a full year's reign. The four days following, Merrill asserts, were similarly perceived as divorced from the year proper and existing for the sole purpose of the new King's securing divine approval before his inauguration on the first of March. ${ }^{25}$

But if there was an intercalation at the end of the year, it of course came immediately after Terminalia, and formed a part of the [old] year. The

[^36]King would therefore be allowed those extra days of life, and the Regifugium would follow immediately thereafter. ${ }^{26}$

Merrill does not absorb the reality that intercalation could occur either after the 23rd or after the 24th of February, depending on how many days it was necessary to intercalate.

Alternatively, it has been claimed that the last few days of February were transplanted to the end of the intercalated block in order to keep the religious festivals that had to occur on these days, the Regifugium (24th) and the Equirria (27th), closely associated with those of March. ${ }^{27}$ As the first festival in March was also called Equirria, this hypothesis has quite some merit.

Macrobius' discussion, it needs to be added, raises the spectre of single intercalary days. Such addition could occur, we are told, if a market day was going to fall on the Kaiends of the new year or on the Nones of any month, utrumque autem perniciosum rei publicae putabatur. ${ }^{28}$ The situation so created was one to be avoided at all costs. Macrobius claims that the intercalated day could be inserted either in an intercalary month or in medio Terminaliorum. ${ }^{29}$ The Latinity of this phrase has been the cause of much confusion as the Terminalia was of only one day's duration. It has been suggested ${ }^{30}$ that the Terminalia known to Macrobius embraced all the feriae of the surrounding period,

[^37]enabling the purported intercalary day to be inserted in the middle of this collectivity. Dio too dilates on coincidence of a nundinae with the first Kalends or any Nones, and claims that such had occurred in $52 \mathrm{BCE}^{31}$ and would have happened again in 40 BCE had not an extra day been intercalated. ${ }^{32}$

In support of baleful consequences of coincidence of the Kalends of January and nundinae, Macrobius cites the events of 78 BCE , when M . Aemilius Lepidus, in defiance of Sulla's constitutional arrangements, marched on Rome and endeavoured to obtain a second consulship. ${ }^{33}$ A similar coincidence, again unchecked, occurred sixteen years later. ${ }^{34}$ These two unprevented instances strongly suggest that the superstition and its remedy did not in fact exist prior to the period after the adoption of Julius Caesar's calendrical reform. If so, during the period of the middle republic there were no single intercalary days.

To refute further the claim made by Dio and Macrobius that the Romans intercalated single days prior to the Julian reform, attention may be drawn to a passage in

[^38]which Cicero discusses the Greek custom of lengthening and shortening months by one or two days. ${ }^{35}$ If a similar system had been employed by the Romans by 70 BCE, then Cicero would not have needed to provide such a detailed explanation of it, nor have attributed the custom solely to the Greeks. Moreover, Michels observes that,
writers of the Empire would be all the more prepared to accept this idea [of an added day], because, in the Julian calendar, the single intercalary day, the bisextum were inserted between the Terminalia and the Regifugium. ${ }^{36}$

## 3. Intercalation

Intercalation is the ever-present bete noire of those seeking a relatively accurate chronology for otherwise floating events in ancient history. Unfortunately for the modern scholar, and indeed perhaps for the relatively ancient one too, most of the years in which there existed an intercalary month are largely unknown. A number of reasons is probably responsible for this lack of knowledge, the chief being that our key sources for the early and middle republican period were by and large at work after the inception of the Julian calendar and consequently unfamiliar with its predecessor. The circumstances compounds the difficulty experienced by the modern historian who seeks to throw light on a situation that was already in darkness when his primary sources were endeavouring to do the same.

[^39]${ }^{36}$ Michels (1967), p. 167.

Various modern authorities have undertaken to create complex hypotheses which determine the years in which there were intercalations. As often as not these theories create difficulties in themselves, being unable to account for every known instance of intercalation or to cope with the number of intercalations in a certain period that simple arithmetic has shown must exist. Despite the painstaking research involved and the complicated schemes adopted in the attempt to solve the problem of intercalation, there have been few areas of agreement between competing systems. The present day historians whose work touches even remotely on the topic of chronology are forced to choose arbitrarily one over another. Michels suggests that, "this lack of agreement in a field that has been studied for centuries suggests that the evidence now available is inadequate for a solution. ${ }^{37}$ The evidence "now available" is.possibly not much less than it was when many ancient authors were discussing the calendar for one reason or another.

Intercalation was often clearly unsystematic, lacking any predictable patterns. ${ }^{38}$ At times it could be manipulated by the pontijices, ${ }^{39}$ or neglected by them, ${ }^{40}$ or otherwise deliberately omitted due to 'religious scruples'. ${ }^{41}$ Michels comes to the defence

[^40]of the maligned pontifices, claiming that, had they consistently intercalated biennially, the calendar would have moved ahead of the tropical year three days in every four years, gradually leading to a discernible dislocation. ${ }^{42}$ Deliberate omission was therefore a necessary device. Rather than consistently endeavouring to counteract this perceived error by way of the rigid prescriptions outlined by Macrobius, ${ }^{43}$ and thereby attain a system relatively constant in relation to the tropical year, the pontiffs were evidently capable of adopting what must have been an easier method: the more or less random omission of an intercalation every now and then to eliminate calendrical advance and maintain a close link between the republican and seasonal calendars. ${ }^{44}$

Over certain periods, intercalation was omitted altogether and so, for example, in 190 BCE, the calendar led the tropical year by four months. Such major omissions have been attributed mainly to awkwardness. The pontifices had until the eleventh hour to declare whether or not there was to be an intercalation.

This would be inconvenient enough when Rome's activities were limited to a fairly small area, but when she began to acquire increasing territories, the inconvenience must have increased accordingly. Generals commanding areas overseas and provincial governors would not hear of the pontifices' decision for weeks or months after the fact. ${ }^{45}$

[^41]Plans based on a normal year would have had to have been revised; arrangements rearranged; social, political, and religious preparations altered. As will emerge below, ${ }^{46}$ Cicero attests such difficulties and complains about the determinants of calendrical confusion in several of his letters.

Michels concludes that it is not possible to produce an exact table of proleptic julian equivalents for dates in the Roman republican calendar due to the paucity of information regarding intercalation. She tabulates the directly attested intercalations and further postulates that when the Fasti Triumphales record a triumph as having occurred on the Quirinalia or Terminalia "instead of dating them in the usual way", this is indicative of an intercalation. ${ }^{47}$ To support this theory, she points out that no other feriae are marked in this way and insists that there had to have been a reason. She uses as a further justification Livy's dating of a triumph on the Quirinalia coupled with his later mentioning that the year was intercalary. ${ }^{48}$ This theory is plausible at first g face, but Michels has failed to consider the possibility that the feriae concerned were used as calendrical indications simply because it was easier than writing XIII a.d. kal. Mar. Most Australiants today refer to Christmas or Anzac Day rather than the actual dates. Michels herself has admitted earlier that, "the names of the most popular of these [festival] days are often used by Roman writers instead of dates. ${ }^{149}$ Further, the triumph might have been deliberately scheduled to coincide with these particular feriae, again solely for convenience.

[^42]Samuel is prepared to countenance proleptic julian equivalents for republican dates only where clear astronomical synchronisms are available. In respect of intercalation, he refrains even from mention of Michel's theory regarding the feriae. Endorsing her basic agnosticism, he confines himself to the observation that,
it is not safe to give a julian date to any date in the Roman republican calendar unless there is a fixed point in the Roman calendar very near to that date, and even then the julian date can only be approximate. ${ }^{50}$

Though most dates can, ultimately, be only relative, ${ }^{51}$ it is a worthwhile and, indeed, essential exercise to endeavour to establish some sort of coherent, best-fit chronology for the Roman republic. Among the several methods so far employed towards the establishment of such a chronology have been attempts to reconstruct in the minutest detail the movements of Romans acting in an official capacity - be it as ambassadors or commanders with their armies in the field. Such a project is fraught with the dangers of subjectivity and insufficient knowledge of conditions: of weather and terrain, of the travelling speed of armed men and pack animals, of the resources and stamina of enemies and the recalcitrance of prospective allies. It is a project, in short, demanding virtual omniscience in respect of Roman military and political conditions.

These comments are by no means meant as a dismissal of the hard work and meticulous research of those who have endeavoured to produce definitive reconstructions

[^43]along such lines. ${ }^{52}$ Indeed, they are pursued to a certain extent in the reconstruction of Chapter 4. It must be recognized, however, that no reconstruction can be free from some margin of error. It is to be hoped that the error margin in what follows will turn out to be minimal. Taking account of previous reconstructions and their underlying hypotheses, then, I shall attempt primarily to establish best-fit proleptic julian calendrical equivalents for all days of the republican civil year from 218-167 inclusive. It will be convenient to divide the period into three parts: first, 190-167, for which astronomical synchronisms give fixed termini; second, 203-191; and finally 218-204. Before proceeding to 190-167, a short chapter on the fundamental module of the reconstruction, the consular year.

[^44]Chapter Three

The Consular Year

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A year is a period of time of a designated duration. Since modern man's evolution, this period of time has been calculated by numerous methods, resulting in years of differing lengths. Our year, the Gregorian year, product of a reform by Pope Gregory XIII of the julian year, promulgated by bull on 24th February, 1582, is the total number of days taken by the earth to complete one revolution of the sun, approximatciy 365 days. This calendar year commences on the first day of January and concludes on the final day of December, but this is not the only type of year to which we refer. There also exist, among others, ${ }^{1}$ the fiscal year and the ecclesiastical year, identical in length to the Gregorian calendar year, but commencing and concluding on different dates. The Romans of the republic also had more than one 'year'.

In addition to the 'normal' or calendar year of the Roman republic, there existed the consular year, whose commencement date varied initially before eventual stabilization. The consular year was the period of time in which any one pair of consuls held office. As eponyms, consular pairs were used to identify years and set them in correct order. Throughout the period under review here, Roman consuls entered into office on the Ides of March. ${ }^{2}$

[^45]During the early republic, the consular years' commencement date was not yet fixed. Variations are immense, ${ }^{3}$ and no determining system is either suggested by the sources or the dates of entry preserved.

Many authorities have had the Romans starting out with a ten-month year. ${ }^{4}$ This year commenced in March, the beginning of spring, and ended with December, the tenth month reckoning from March. Romulus, when setting the calendar in order, allegedly decreed that it possess menses quinque bis, ${ }^{5}$ but Numa, nec Ianum nec avitas praeterit umbras, ${ }^{6}$ prefixed two months to the Romulan calendar, so that March became the third month. ${ }^{7}$ It might be considered as a natural consequence of the original commencement

[^46]date of the year in March that the consuls entered upon their term of office on the Ides of . that month, initially the time of the full moon. It is unfortunate for such a reasonable hypothesis that the ancient sources do not suggest this to have been the case ${ }^{8}$ but that the consuls only entered office in March at a time when the beginning of the year had been firmly fixed on the first of January. As Michels note ${ }^{\circ}$ he Roman year must have begun in January at least by the early 2nd century BCE or the Fasti of Fulvius Nobilior (cos. 189) would not have opened with that month. It is highly unlikely that the circumstances of 189 reflect relatively recent calendrical rearrangement. The beginning of the calendrical cycle at the time of year concerned is logical in the eyes of Plutarch who writes that it is best to commence a year after the winter solstice as the length of the day starts to increase and, conversely, that of the night to decrease from this point. ${ }^{10}$

Eventually, in 153 BCE, the inauguration date for the consuls was moved from the Ides of March to the Kalends of January. This was probably done for logistical convenience and very likely had little or no impact on the timing of the current civil and religious observances of the Roman people. The immediate catalyst for the change was,

[^47]in the opinion of Mommsen, the incursion of the Lusitanians and their allies into Roman territories. He claims ${ }^{11}$ that,
in order to accelerate the despatch of aid [to Spain], they even made the new consuls enter on office two months and a half before the legal time. For this reason the diy for the consuls entering on office was shifted from the 15th of March to the 1st of January.

Administrative convenience of some kind at various levels, possibly triggered by a catalyst such as Mommsen envisages, is a plausible enough explanation for the transference of the consular entry date, but then the original question returns: why did the consuls once enter office on the Ides of March instead of at the beginning of the calendar year? For a positive answer, we are left wanting. Perhaps it was a matter of a typically Roman reluctance to reject wholly an ancient custom, a reversion to the start of some sort of year in March. The civic and religious years were dated from the 1st of January; let the consular year commence in the month of the original new year. Perhaps also it was because March was named for Mars, the god of war, a deity more compatible with military chief magistrates, the distribution of provinces and attendant levies, than was Sanus, the statesman and husbandman god for whom January was named. ${ }^{12}$

Whatever the reason, for the period under review, the consular year runs from the Ides of March, year $x$ to the day before the Ides of March, year $x+1$.

Each consular year consequently falls across two proleptic julian years. In practice, it turns out that a consular year consists of a small part of proleptic julian year $x+1$ or $x$ 1 , and a larger part of proleptic julian year $\%$. The means of expressing this are often the cause of much confusion for the unwary, as recent historians have failed to adopt a

[^48]satisfactory convention for assigning BCE equivalents to Roman republican consular years. Briscoe, ${ }^{13}$ tr take one example, dates each consular year by the two proleptic julian years it would have straddled had the julian 15th March of the first of the two years coincided with the Ides of March of the Roman consular year concerned. Since coincidence was not the case, we encounter such daunting statements as the consuls of 195/4 entered office on 24 November, 196, or those of $194 / 3$ entered office on 14 November $15.5{ }^{14}$ Derow, ${ }^{15}$ whose reconstructions will be further considered beiow, creates even more confusion by effectively designating consular years which it would be natural to regard as odd ones on the basis of their majority proleptic julian component as even. Marchetti ${ }^{16}$ refers to varronian $a b$ urbe condita years as well as julian years, but fails to distinguish the two clearly. Others, like Warrior, ${ }^{17}$ prefer to operate purely with consular years, a system which seems to me to have greater merit than confusing counterparts. In what follows consular years are defined as consular (C) $x$, with $x$ representing the proleptic julian year with which the larger part of the consular year coincided.

[^49]
# Chapter Four 

Consular Years and the Proleptic Julian Equivalents

## A. A Reconstruction of C190-C167

The purpose of this section is to propose plausible julian equivalents for the Roman consular years 190-167. Towards this end, brief critical examinations of previous work concerned with the relevant area of Roman republican chronology will first be presented. After this preliminary review, I turn to my own system of julian equivalents, proposing likely intercalary years and suggesting, with supportive argument, that the third Macedonian war was a turning-point in the process of intercalation.

I have chosen to begin the tentative establishment of proleptic julian equivalents for days and months of Roman consular years with the second half of the period of middle Republican history covered by the existing books of Livy because it is neatly bounded on either side by two fixed daies.

In 190 BCE, there occurred a solar eclipse which Livy claims to have occurred on the 11 th of Quinctilis. ${ }^{1}$ Modern astronomy has calculated this eclipse as having taken place on the 14th of March, 190, showing that the Roman calendar at the time was out of step with the seasonal year by almost four months.

The second fixed date for this period falls in 168 BCE . In that year there was a total eclipse which modern astronomical methods date to the 21st of June, and which

[^50]Livy ${ }^{2}$ places in the night of the 3rd of September. In 168 BCE then, the Roman year was still a daunting $21 / 2$ months ahead of the seasons.

For the consular years spanning the period 190-168, conformity with Macrobius' basic formula ${ }^{3}$ and intercalation every second year would have involved a total of eleven intercalary months, adding 247 or 248 days to the 7810 days of the 22 -year period, making 8057 or 8058 days altogether. Such neat reconstruction is excludeci on two counts.

First, for the consular years running across the period $190-167$ BCE, the four directly attested intercalations fell in consular 189, ${ }^{4}$ consular $177,{ }^{5}$ consular $170,{ }^{6}$ and consular 167. ${ }^{7}$ The appearance of 170 rules out a sequence of biennial intercalations in each odd year beginning with consular 189. Second, the two fixed dates that we have for this period accurately indicate to us an exact number of Roman republican calendar days which turn out to be more than the above method would give us. Working backwards from each of these fixed dates, the Ides of March (the beginning of the Roman consular year) in 190 fell on the 18th November, 191 proleptic julian, and in 168 on the 4th of

[^51]January, 168 julian. The number of julian days between these two dates is 8083 , showing a discrepancy of 273 days between this and the total number of days in terms of nonintercalated Roman civil years. To make up for this shortfall, it was necessary for the Romans to have intercalated into the 22-year period concerned twelve intercalary blocks, nine consisting of 23 days, and three of 22 days.

Apart from the known years of intercalation, placement of the intercalations remaining cannot but be to greater or lesser extent arbitrary, prompting some historians to diagnose that,
there is not enough evidence to support even a tentative complete system of equivalents between dates in the pre-Julian Roman calendar on the one hand and dates in an extrapolated julian calendar on the other. ${ }^{8}$

A complete and exact system of equivalents for this period is certainly not possible but a helpful provisional system can certainly be constructed. The two fixed dates give definite termini between which a known number of days are fitted. The years directly attested as containing intercalary months also decrease the possibility of wild inaccuracies occurring. The datum may be thrown in that consular 166 was another year with an intercalary month. ${ }^{9}$ Following consular 166 , the years in which there were intercalary months indeed become, eventually, a largely unknown quantity. Even the Italians themselves were at times ignorant of when intercalation was to be effected as the pontifices, responsible for the maintenance of the calendar, would wait almost to the last moment before announcing their decision. Such ignorance emerges forcefully from a letter

[^52]written by Cicero to Atticus ${ }^{10}$ in 50 BCE: cum scies, Romae intercalatum sit necne, velim ad me scribas certum, quo die mysteria futura sint. (when you know whether there are to be additions to the calendar at Rome or not, please write me positive news as to the date of the Mysteries). By 46 BCE when Julius Caesar introduced his calendrical system, rejecting the old 355 -day calendar in preference of a 365 -day one, the civil calendar was so at variance with the seasons that ninety days had to be added to bring it back in line with the tropical year. That year then consisted of 445 days ${ }^{11}$ instead of the usual 355 , making it the annus confusionis ultimus. ${ }^{12}$

To return, though, to our earlier anni confusionis, there is yet to be formulated a method by which the missing intercalations can be found to have been incorporated into the Roman calendar. In order to achieve an approach to this, it is a valuable and necessary exercise to examine the methods and opinions of two modern historians who have treated the subject of Roman chronology and intercalation in great depth. ${ }^{13}$

[^53]
## 1. The Derow System (1)

Derow ${ }^{14}$ follows Macrobius' claims ${ }^{15}$ that the Romans, in accordance with the Greek example, intercalated every second year, alternating between 22 and 23 additiona! days. After inserting these biennial intercalary blocks, Derow finds that 24 days are left over in the period 190-167 and so superfluously proposes that the consular year $170^{16}$ contained an intercalation of 23 days, a circumstance already clearly recorded by Livy. ${ }^{17}$ To dispose of the single day remaining, he tacks it offhandedly onto the intercalary month of the preceding year, declaring that this must remain a margin of error as the correct placement of this extra day (or the subsequent intercalary block of 23 days by his reckoning) is unknown. In this way he neatly slots in the number of days that he has calculated as being necessary to fill the gap between the two astronomical synchronisms, the eclipses of 190 and 168. As a further support for his system, Derow examines both the Livian and Polybian accounts of the Lycian embassy to Rome in consular 178, using the seasonal references therein as confirmation of his own correct placement of the intercalary months. Concluding his paper, Derow says,

[^54]All of this, I would suggest, warrants confidence not only in the present tabie of equations but also in the Roman dates given by Livy and the Fasti Triumphales, at least for the years here under review. ${ }^{18}$

With this exhortation to confidence ringing in the ears, it is a shame then that examination of Derow's skeleton table of equivalents ${ }^{19}$ fails to inspire such an investment. Sicply by taking the time 1 build upon them, one brings to light as many as ten internal errors, four of which occur $n$ Derow's 187, two in 183, and one each in 185, 180, 176, and 171. In the following list, the first date shown is the one provided in Derow's table, the second is the correct date calculated from his earlier dates.

187- 17 iii $187=27$ iii 187
15 iv $187=25$ iv 187
14 vi $187=24$ vi 187
13 vii $187=23$ vii 187
186-30×186=29×186
$183-28$ ii $183=29$ ii 183
17 vii $183=27$ vii 183
180-15 ix $181=25 \mathrm{ix} 181$
176-19 ix $177=29$ ix 177
$170-14 \times 170=24 \times 170$

Most of these can charitably be attributed to typographical errors. For example, Derow claims that the Kalends of Sextilis in 187 civil was on the 17th March, 187 julian when in actual fact, using his own system, it can be shown to have occurred on the 27th. No such charity can be afforded the two dates that are out by a single day.

[^55]Such mistakes, typographical or otherwise, aside, a fundamental flaw lies in Derow's placement of the extrapolated leap years for the period under discussion. "For the purpose of extrapolation, note that leap years in this period are 187, 183, etc. ${ }^{20}$ This presents Derow with five leap years over this period, rether than the actual six. Had Derow positioned the leap years correctly (in 189, 185, etc.) he would have found that, instead of being left with a surplus of 24 days, he had 25 , necessitating yet another 23-day intercalation. Conceivably, realization of this necessity might have led Derow to frame a new programme for reconstruction; as matters stand, his misidentification of leap years, together with other errors, remove; any possibility of utilising his tables for anything approaching an accurate dating system.

One may add that, though Derow permits three successive intercalary years, he offers no explanation of them, which is disappointing, especially in light of his sesessment $^{2}$ of the lex Acilia. ${ }^{21}$

What makes Derow's work even less user-friendly than it might otherwise have been is his failure to appreciate that it is easier, and perhaps nore accurate, to date an intercalation by the consular year [15 March - 14 March] in which it occurred, rather than the Roman civil year [ 1 January - 29 December]. He does explain his convention in a lengthy foot-note, stating that "the intercalation in 190 fell in the term of office of the consuls of 191 (in consular 191) " ${ }^{22}$ but there is the occasional instance when he writes

[^56]of consular years and one is left wondering why he declined to adopt a less confusing system consistently.

## 2. The Warrior System

Warrior opens her 1991 article on intercalau "s with a condemnation of Derow's efforts. ${ }^{24}$ She sees his table ci equivalents as "a conveniently tempting tool"25 - nothing more - but deplores his failure "to note that other patterns of intercalation could equally well fit the pattern. ${ }^{26}$ She herself fails $:$ note any of Derow's proliferous casual errors, concentrating more on the general features of his study than the details.

In the article, Warrior tackles the problem of the determination of intercalary years not by complex calculation but by examination of the terminology employed for the dating of certain events. As an "interesting case", she brings up the two triumphs of 322 BCE , one of which was scheduled for the Quirinalia, the other for a.d. XII k. Mart. ${ }^{27}$ If the year in question had not been intercalary, these triumphs would have been celebrated on successive days. The fact that the consuls to whom there had been awarded triumphs had both fought in the same region would not counterindicate such a possibility, but then

[^57]Warrior questions why the first triumph had not been dated to a.d. xIII k. Mart. ${ }^{28}$ As mentioned earlier, ${ }^{29}$ this may well have been for sheer convenience, but Warrior regards it as proof positive that the former was held in February, the latter in the intercalary month. A fuller discussion of this alleged dating convention is to be found in a later article ${ }^{30}$ which will be examined next.

In this second article addressing the problem of intercalation, Warrior presents a clear and coherent case for the dating of days in the intercalary month from kal. Mart., and those of February from fest. als. Dating forward to the kalends of March was used in years in which there was intercalation whereas dating events after the Ides of February by February festivals occurred in both normal and intercalary years. ${ }^{31}$ By this method, she seeks to identify two hitherto unrecognized intercalary years in this period - consular 188 (a.d. XII kal. Martias) and 172 (a.d. XII kal. Martias). ${ }^{32}$ My objection to these will be considered later.

Before examining the effects of the lex Acilia, Warrior expounds on the role of the pontifices in the maintenance of the calendar and the inclusion of intercalary months. Pontifices, she states, ${ }^{33}$ most likely always had control of the civil calendar. This

[^58]opposes the views held by Broughton and Scullard. ${ }^{34}$ From the earliest time, when oral announcements would still have been a viable means of disseminating information, the pontifices would make last-minute declarations pertaining to intercalation. Though there is, as Warrior acknowledges, no direct evidence to support this, the overall impression is of the pontifices giving an announcement as late as mid-February. 35 With the expansion of Rome's power and acquisition of provinces would have come the difficulty of getting such information to provincial governors and magistrates, as well as those engaged in military manœuures abroad. To overcome such difficulty, Warrior says that an early decision regaraing intercalation would have been necessary. ${ }^{36}$ She asserts that such early notification is in evidence in the actions of Fulvius in 189. By extending his consulship, intercalation enabled Fulvius to conclude his affairs in Greece and then arrive at Rome in time to conduct the annual elections for 188. She continues that neither Livy nor modern historians have noted the implications of Fulvius' extended consulship.

Modern scholars consider Fulvius' movements mainly from the perspective of events in Greece. Apparently for that reason, they also faii to take full account of the possibilities opened up by the intercalation of $189 .{ }^{37}$

With the end of the consular year at this period being close on the toes of the end of the campaigning season, failure to intercalate in 189 would have deprived Fulvius of sufficient

[^59][^60]time to return to Rome for the elections. Nor, if the pontifices were retaining their custom of announcing intercalations at the eleventh hour, would there have been enough time for the news to reach Fulvius in Greece before he had already concluded his business and set off back to Rome. Therefore, granted that there was intercalation in 189, in order for Fulvius to have taken advantage of the extra time (allowing Warrior's unsupported contention that he did so), the decision to intercalate must have been made before Fulvius set out for his province. ${ }^{38}$ Warrior suggests that, mandated by Acilius as part of the: lex Acilia, for at least the first three years under the law, intercalation was thereafter always to be decided early in order that magistrates outside the immediate environs of Rome might arrange their affairs accordingly. ${ }^{39}$

Unfortunately for Warrior, Michel ${ }^{40}$ has plausibly argued that it was from the observance of the winter solstice that the pontifices were able to calculate whether their calendar was running ahead or behind the tropical year, and then decide to include or omit intercalation that year. She observes that an unobstructed view of the east and west horizons is easily achievable from the northeast end of the Capitoline Hill, where other calendar related rites were performed. As the days grew shorter, a watch, she suggests, would have been kept to note the day on which the sun rose almosi in line with the Via Sacra. This date would indicate whether there was an advance or a retard of the calendar, and hence whether or not an intercalation was warranted. With the winter solstice securing on 24/25th December, any decision to intercalate or not would necessarily have been late and could not have been made before a consul left for his province - despite

[^61]Warrior's claim, unless the decision to intercalate referred not to the coming February, but to the one following, a whole year later. Consequently, if the pontifices divined the need for an intercalation at the end of 189 by the winter solstice and were able to give warning far in advance of the proposed added month, that warning would have had to have been conditioned by the solstice of 190 BCE and therefore the consul, Fulvius, would have known of it before even entering office. As no ancient author even hints of an intercalation being announced for the next rather than the current year, this is all conjecture, possibly quite wild, and at the very least questionable.

The lex Acilia of 191, according to Warrior, prescribed "rapid correction" of the four month dislocation between the calendar and the tropical year. ${ }^{41}$ With the undeniable exception of C190, where intercalation would have prematurely ended all military campaigns, ${ }^{42}$ she proposes, every year after the lex was intercalary until C 185 , and then intercalation was "intermittent". ${ }^{43}$ Such eventual intermittent intercalation achieved, over the next seventeen years, an ongoing discrepancy between civil calendar and seasons of approximately $21 / 2$ months. Subsequent to these biennial intercalations came the known intercalations of C 167 and C 166 , indicating to Warrior a resurgence in intercalation. ${ }^{44}$ Yet two questions arise from this: 1. if "rapid correction" :was desired, why was 190 not intercalary? and 2. if "rapid correction" was intended, why were successive years after 186 not intercalated until the short-fall had been made up?

[^62]In answer to the first question, Warrior proposes that the negotiations with Antiochus, occurring towards the end of the campaigning season, made the decision not to intercalate that year most acceptable, indeed, even desirable, but she acknowledges that it is only with the wisdom of hindsight that these negotiations are inferred, ${ }^{45}$ and if early decisions as to intercalation were in vogue at this period, intercalation would have been scheduled long before any dealings with Antiochus were in the wind.

As to the second question, Warrior fails to offer any adequate, let alone convincing, explanation of alleged cessation of successive remedial intercalations in C185. It is puzzling that she fails even to consider the possibility of alternate intercalations, au Macrobius, in the pericd and it seems as though she, just as she accuses Derow of doing, ${ }^{46}$ has set her eyes on a particular scenario and gone on to gloss over those awkward facts which do not fit it.


[^63]3. Accelerated Intercalation and the Third Macedonian War; towards a new system of equivalences.

Macrobius ${ }^{47}$ says that, in ancient times, before the eventual calendar of the Republic was established and well-known, it was the duty of a pontifex minor to watch for the crescent moon which woild herald the first day of the new month and report this to the rex sacrorum. In turn, the rex would then inform the people on what day the Nones would be, and when would come the Ides. The implication of this is clear enough - the calendar was in the hands of the priests from its inception, and the priests would have been the ones to recognize that their calendar was at variance with the seasons and understand the need and the method for correcting this defect. Therefore, to claim, as does Broughton ${ }^{48}$ among others, that it was the lex Acilia of 191 BCE that gave the power of
 intercalation to the pontifices is to make a vast, unsubstantiated assumption based only on Macrobius' short and opaque reference to it which suggests nothing of the kind. ${ }^{49}$ Granted that the pontifices were responsible for intercalation long before Acilius' law and the accumulated discrepancy by C 191 between civil year and seasons, the lex Acilia was

[^64]very probably more concerned with the resumption of regular intercalation than anything else. ${ }^{50}$

With this in mind, then, it is out of the question that there was failure to intercalate at the end of the very year in which the law was carried. ${ }^{51}$ Equally, it strikes me as highly improbable that, immediately after the recommencement of intercalation, it would have been resorted to in successive years given Macrobius' insistence that biennial insertions were the norm. Consequently, Warrior's careful examination of the crossing of the Hellespont in $190^{52}$ to prove that there was no intercalation in this year, though interesting, is probably superfluous.

If intercalation for this period indeed followed the principles recorded by Macrobius, then, presuming that the year in which the lex Acilia was carried was the first of the regular intercalations, all uneven, from a proleptic julian perspective, consular years down to and including 169 are to be considered intercalary. This positions eleven of the twelve intercalations necessary for $\mathrm{C} 190-\mathrm{Cl} 168$, with the known intercalations fitting in perfectly, except for one. Livy states that C170 was intercalary. ${ }^{53}$ While from one perspective a fly in the ointment, this, once included in an overall distribution, provides

[^65]the extra, twelfth, intercalation required. ${ }^{54}$ Nevertheless, the question arises of the rationale of this departure from regular biennial intercalations.

By 168 , as has already been shown, the Roman calendar was approximately $21 / 2$ months ahead of the seasons. Fifteen years later, in 153 , when the beginning of the consular year was changed from the Ides of March to the first of January, the calendar is likely to have been even more in accord with the tropical year. Hence, the shift of the beginning of the consular year to the Kalends of January, a move calculated to provide key magistrates with sufficient time to transact public business prior to the campaign season. ${ }^{55}$ It was necessary then for there to have been a sufficient number of intercalations to effect this correction. As there are known intercalations for C 167 and C 166 , and, if one follows a plausible suggestion of Michels, ${ }^{56}$ one in C 164 , it becomes attractive to propose that the pontifices, eventually finding it unacceptable that renewed biennial intercalation was maintaining the calendar rather than significantly contributing to correction of the discrepancy that existed, decided that for a period intercalation be performed every year until the calendar was no longer at gross variance with the seasons. An hypothesis along these lines involving successive intercalations at the end of consular $169,168,167,166$, 165,164 and 163 would also explain the intercalation of C 170 if , as I should like to suggest, such a decision was reached in C171. One wonders, then, what occurred in 171 to cause the pontifices to take action.

[^66]The responsibility for a temporary functional change from biennial to annual intercalation may possibly be laid at the feet of Cn . Domitius Ahenobarbus. Co-opted into the priesthood at the end of 172 or early in 171 to repiace Q. Fulvius Flaccus, who had hanged himself and therefore died foeda morte, Domitius Ahenobarbus was, as Livy ${ }^{57}$ put it, oppido adulescens sacerdos. Little is known about this Cn. Domitius Ahenobarbus other than that he was probably a praetor in $\mathrm{C} 170,{ }^{58}$ and a suffect-consul in C162.

According to the lex Villia of 180 BCE, a man had to have attained the age of 42 before he could hold a consulship. As the Fasti list Cn. Domitius Ahenobarbus as having held the position of suffect-consul in 162 , and since it is extremely unlikely that a suffectconsul was permitted to be under the required age of a consul, it may be assumed that by this time Domitius Ahenobarbus was at least 42. Therefore, ten years earlier when he was co-opted into the priesthood, he would have been at least 32 which was about the average age of priests. Pontifical colleges, $\mathrm{Hahm}^{59}$ demonstrates, "seldom co-opted men who had already held the consulship, and they seemed to prefer men who had never held any high political office." Consequently, Hahm concludes, new priests were mostly young men under thirty-six. If he is right, Livy's comment on Domitius Ahenobarbus' age is peculiar, since he does not appear to have been an exceptionally young man. Conceivably, Livy was not referring so much to Ahenobarbus' physical age as to the age of his thinking; his ideas were youthful almost, refreshingly new after the stultifying inactivity of those in the same office. Domitius was oppido adulescens sacerdos in spirit, if not in salendar age.

[^67]The injection of new blood into the priesthood at this period may well have been responsible for the realization that, unless drastic measures were taken, the Roman calendar would continue ad infinitum to be at inconvenient variance with the tropical year. The measures adopted, as proposed above, were to increase the frequency of intercalation by temporarily making it annual rather than biennial with the result that the Roman calendar gradually moved back in line with the tropical year.

It is difficult, however, to assume that a new face in the pontifical college was the only determinant of such a change. There was likely some motivating force, some pressing immediate circumstance which prompted Cn. Domitius Ahenobarbus' revision of the system of intercalation (assuming that he was the main architect) and the decision of the other pontifices to accept and implement it. To find such a catalyst, one has merely to turn to the exigencies arising in particular from the remote theatre of campaign of the
 Third Macedonian War.

The military campaigning season of this period of the Republic concluded with the army's going into winter quarters. There does not appear to have been an exact date for this occurrence, but according to both Columella and Varro, ${ }^{60}$ (although they are relatively late authors using the julian calendar, it is unlikely that notions about seasons' beginnings in terms of risings and settings of stars would have altered significantly since the middle republic) the start of winter was the tenth of November. Assuming, then, that a consul quartered his army for winter not long after this date during a year in which civil

[^68]year and seasons coincided, he would have had plenty of time to return from his province to hold the elections at Rome in the middle of February.

If one of the problems generated by the Romans' neglect of intercalations was that consuls, to fulfil requirements of their office, such as presiding over elections, were obliged to leave armies and return to Rome before the end of the campaigning season, then exceptional difficulties must have arisen in the first year of the war against Perseus. When the war began in C171, the calendar must have been out of step with the tropical year by approximately $31 / 2$ months, the Ides of March falling on the 29th of November, proleptic julian. The beginning of the next consular year was on the 11th December, 170 julian, but it must be borne in mind that there had been an intercalary month at the end of consular 171. Mid-February, the time when the consul would have been expected to be in Rome for the elections, would have fallen not in late winter by the seasonal calendar, but instead in the middle of autumn (mid-October, proleptic julian). It is natural to assume that the conclusion of the campaigning season would come when the weather deteriorated to such an extent that military actions were obstructed; in other words, at a time dictated by the seasons, rather than a calendar date for the inception of winter such as that indicated by Columella and Varro.

If such a calendar date had been irrationally and rigidly used, the Roman army would have been snugly tucked up in winter quarters scmetime around late July or early August, which would have been summer. Having disposed of his army in this way at this time, the consul would have had a few months clear in which to return to the capital to discharge his obligations, and therefore any contention that the consul had to leave his army before the conclusion of the campaigning season would have been groundless. If, on the other hand, the consul had continued with military manœuvres until the weather
called a halt, ${ }^{61}$ then he would have lacked sufficient time to return $t \mathbb{C}$ Rome. It may be concluded then that this latter situation was the one facing the Romans. Before the end of the campaigning season, determined by the weather, the consul would have been forced either to leave his army to execute the obligations of his office, or to put them in winter quarters while the weather continued fair and suitable for armed encounters.

The third Macedonian war was regarded by the Romans as a grave matter, ${ }^{62}$ and several innovations were decreed: for example, experienced soldiers up to fifty years of age might serve in the army, and tribunes, instead of being chosen by vote, might be selected by the consuls and praetors. ${ }^{63}$ To postulate a further innovation - an amendment to the current system of intercalation - is far from far-fetched. Concerned by the situation faced by the consul, P. Licinius Crassus, (and perhaps inflamed by the defeat at Peneus; by Perseus' repeated offers of indemnity; and by the lack of decisive confrontations, excepting the accidental meeting near Fhalanna), the pontifices were impelled to seek a

[^69]solution, one that would keep their consul in the field with his army until the conclusion of the campaigning season but that still permitted him to discharge his other consular responsibilities. A panacea proposed by Cn . Domitius Ahenobarbus, an innovative young man new to public office, suited them well.

## B. Reconstruction of C203-C191

In the previous section I sought to establish a relative chronology for C190-C167 and a little beyond on the basis of astronomical synchronisms, seasonai references in the ancient texts, and the suggestions and observations of modern researchers. In what follows, I shall deal with the period C203-C191 on similar lines, calibrating consular years with proleptic julian counterparts and suggesting which of the former are likely to have been intercalary. Chronological works of P. S. Derow and P. Brind'Amour will again have a high profile, as will also the question of whether the battle of Zama can be found to have a secure proleptic julian equivalent, established by way of extrapolation from information relating to the Roman republican date for the defeat of Vermina.


In the case of ( $190-$ C167 calendrical calibration was facilitated by the availability of two solid termini, the solar eclipse of 190 and the eclipse of the moon of 168. Confronting the would-be calibrator of C203-C191 is the presence of only one constructional constraint, namely the proleptic julian equivalent for C 190 . More use, consequently, needs to be made of controlled conjecture and even greater reliance placed on seasonal markers in ancient texts. An inherent danger of overdependence on such allusions is that it can sometimes be shown that the authors concerned were capable of compressing events for dramatic or other subjective purposes.

The eclipse synchronisms of 190 BCE and 167 BCE made it possible to number the civil days and the julian days between them, and reconciliation was achieved by interposition of biennial and then successive intercalary blocks. Regrettably, it is by no means relatively simple to calculate the number of days for the earlier period, despite its
comparative shortness. If the Roman republican days from 15 March, 203 to 14 March 190 civil are counted, ignoring for the interim any intercalations, then the result comes to 4615 days. In the context of the reconstruction of the previous section, the julian equivalent of the day prior to the Ides of March 190 has been established, but there is no obvious reference point available towards establishing the equivalent of the Ides of March, 203. It follows that it is extremely hard to achieve a systematic calibration on the basis of the number of intercalations and intercalary months and days. It is necessary, in fact, to admit the impossibility of establishing with adamantine certainty how many days were intercalated into the Roman civil calendar to bring it to the stage when in 190 BCE it was approximately four months ahead of the tropical year. A relatively satisfactory proposal can be put forward, but a margin of error must perforce be present, and allowance made for the accommodation of such.

In order to achieve a best fit equation of the Roman civil years of our period with proleptic julian years, examination of the ancient sources must be meticulous; all significant clues have to be gleaned regarding the chronology of the era, and inferences drawn which may seem presumptuous at first sight but will, on closer examination, it is hoped, be perceived to have a high degree of plausibility.

## 1. The Derow System (2)

Derow's second article ${ }^{1}$ is what he calls a "retrogressive continuation" of the earlier paper discussed in the previous section. It is unfortunate, and one might go on to

[^70]add remarkable, that the types of error present in that first study appear again in this one, such as the incorrect placement of proleptic julian leap years. ${ }^{2}$

In order to establish the chronology of 203, Derow goes into an in-depth reconstruction of military events; in particular, the confrontation between the armies of Scipio, Syphax, and Hasdrubal. In so doing he draws especially on the accounts of Polybius and Livy. Though his time frames may be seen as very tight, his calculations agree with those of Soltau ${ }^{3}$ in claiming that the defeat of Syphax at Cirta, occurring, according to Ovid, ${ }^{4}$ on 22 Junius in the consulship of Cn . Servilius Caepio and C . Servilius Geminus, fell on the proleptic julian date of 23 rd May, 203 BCE. ${ }^{5}$ If this date were accurate, then it could be safely asserted that between 203 and the eclipse of 190 , there were two intercalations. Derow's view that there was one at the end of consular 191 because of the lex Acilia is consistent with general opinion. ${ }^{6}$ His next step is to locate the
 year of the second intercalation.

[^71]Derow rejects Marchetti's suggestion that the intercalation occurred in consular
194, rather than before, in order to lessen the impact of the ver sacrum celebrated earlier that year, ${ }^{7}$ not on the grounds of the hypothesis' implausibility, but rather due to disbelief that the intercalation could have occurred so late. ${ }^{8}$ Again using Polybius and Livy, Derow outlines the events of late C198 and early C197, focussing on the conference between Flamininus and Philip and the truce between the two nations, ${ }^{9}$ and assessing the length of time likely to have elapsed between key events. He concludes that the time limits are again very, even unnecessarily, tight, not so much on the basis of information provided by ancient authors (he highlights in particular Livy's ${ }^{10}$ assertion that hiems iam eo tempore erat), as on the deductions of modern critics, such as Holleaux. In a footnote, ${ }^{11}$

[^72]Derow apportions "30-35 days [of the truce] for the envoys to get to Rome; 5-10 days in Rome; 20 days for the return trip." He admits that the schedule was restrictive, and that it is quite possible that the times taken were in fact longer (especially that of the return trip, which, curiously, he makes $10-15$ days shorter than the trip out) or that there might have been intervals, unreflected in the ancient accounts, between key events. From Derow's discussion, two possible dates (16 or 17 December, 198 BCE and 7 January, 197 BCE) emerge for the Ides of March of consular 197, depending on whether there was one or no intercalation between the conference and 190. Derow favours the latter alternative, but there seems no solid evidence whatsoever for dismissing the former. Derow goes on to conclude that the second intercalation overall is to be assigned either to 202 or 201 , that is, consular 203 or consular 202.

Derow avers that it is possible to draw a close relation between the advent of the Mater Idaea at Rome in 204, which Livy claims to have happened on 4 Aprilis, ${ }^{12}$ and the vernal equinox which fell that year on 24th March, proleptic julian. ${ }^{13}$ Such a nexus between the Mater Idaea and the vernal equinox is found, according to Derow, at Pliny, N.H. 18,16, where the polymath writes: quo verum anno Mater deum advecta Romam est, maiorem ea aestate messem quam antecedentibus annis decem factam esse tradunt. (then it is recorded that in the summer of the year in which the Mother of the Gods was carried to Rome there was a larger harvest than in the preceding ten years). Since the passage

[^73]makes no obvious specific reterence to the vernal equinox, it is extremely difficult to see how such a connexion could possibly be drawn. Nonetheless, Derow draws it and goes on to state that if consular 203 had been intercalary, then 12 Aprilis would have fallen on 25th March, 204 proleptic julian. His final conclusions are that the Ides of March, C203 fell on the 15th of February, 203 BCE , and that there were no intercalations between the one of C202 and that of C190. ${ }^{14}$

## 2. The Brind'Amour System (1)

In Brind'Amour's invaluable work on the Roman calendar, ${ }^{15}$ the years under examination are neatly grouped into blocks of varying lengths. Perhaps a draw-back of his system is that the blocks are not presented in chronological order. However, within each block, each year is clearly and comprehensively examined on the basis of seasonal references and astronomical synchronisms.

As far as the equation of 22 Junius, C203 with 23rd May, 203 BCE proleptic julian as painstakingly calculated by Derow is concerned, Brind'Amour finds himself unable to accord acceptance to such precision, the available evidence being what it is.

Malgré les quelques indications précises que comportent nos sources, leur silence en d'autres endroits ne permet pas une reconstitution bien assurée. Combien de temps fallut-il à Syphax vaincu, par example, pour se refairs une armée de nouvelles recrues, avant sa défaite définitive? ${ }^{16}$

[^74]Brind'Amour goes on to suggest that the eclipse which Zonaras, ${ }^{17}$ epitomizing Cassius Dio, associates with the eve of the battle of Zama in C202 and which has commonly been identified with that of 19 th October 202 BCE , is in actuality a reflex of that of 6th May, 203 bCE. He makes this proposal on the basis of an examination of the magnitudes of the eclipses for an observer in north Africa. The earlier eclipse, though hardly total, was of greater magnitude than the one that occurred in 202 BCE which was of such low magnitude that "il est difficile de croire que cette éclipse, avec la magnitude qu'on lui découve dans la région de Carthage et partout sur la côte africaine, ait pu seulement être observée."18 Consequently, Brind'Amour considers the report from Cassius Dio to be more literary fiction than historical fact; a matter of synchronising a key politico-military event with an astronomical one that in fact preceded it. He concludes that it is not possible to date the battle of Zama by the eclipse synchronism of Zonaras, ${ }^{\text {T }}$ and instead goes on to employ other methods.

During the final year of the second Punic war, according to Livy, Ti. Claudius Nero set out for Africa with a fleet to assist Scipio Africanus. Storms forced him to stop at Sardinia to repair his ships. While he was there, winter and the turn of the year

[^75]overtook him and since no-one sought to prolong his command, it was as a private citizen that he brought the fieet back to Rome. ${ }^{20}$

Brind'Amour claims that it is not necessary to interpret the Livian circumactum anni tempus (the turn of the year) as betokening correspondence with onset of winter, and that Livy merely compressed events. ${ }^{21}$ Cassius Dio as relayed by Zonaras expands in some respects and differs from Livy's account of events. He records that after progressing
to Sicily, Ti. Claudius went no further because there was no need; news had reached him of Scipio's decisive victory over Hannibal. ${ }^{22}$ Focussing upon the synchronism, Brind'Amour states that, "la bataille de Zama et la naufrage du consul Claudius se seraient déroulés au début de l'hiver, pas mal de temps avant la fin de l'année civil. ${ }^{123}$

Further towards establishing an exact date for the final major battle of the second Punic war, Brind'Amour turns to the defeat of Vermina, the son of Syphax, which Livy
 dates to the 17 th December, 202 civil. ${ }^{24}$ The time of the battle of Zama, which occurred not long before the defeat of Vermina, he decides was mid-December, and by so

[^76]concluding fails to endorse the ten-day interval between the two events estimated by Marchetti. ${ }^{25}$ Since Zama occurred around the beginning of winter, it follows for that Brind'Amour the calendar was somewhat in advance of the seasons. ${ }^{26}$ He proposes that there was an intercalation in consular 193 since in that case, the Ides of December 202 would correspond to the end of October, proleptic julian, and thus the setting of the Pleiades which signalled the beginning of winter. ${ }^{27}$

As a further proof that the calendar was in advance of the seasons, Brind'Amour cites a passage of Polybius ${ }^{28}$ which suggests that Publius Sulpicius was made consul during winter, implying that the Ides of March did not fall in the spring of that year.

Like Derow, Brind'Amour investigates the truce between the Romans and the Macedonians and surrounding events in 198 and 197. From these he deduces that the Ides of March, 198 civil, was in the middle of winter, and that therefore, "l'avance calendaire,
 dans tout cela, est incontestable. ${ }^{29}$ To focus on 197, the Romans achieved a military success over Philip and the Macedonians at Cynoscephalae in Thessaly, around the time of the harvest, a setting implied, if not specifically stated, by both Polybius ${ }^{30}$ and

[^77]Livy. ${ }^{31}$ If this is so, the victory must have been achieved in late June or July julian. ${ }^{32}$
Flamininus despatched a letter to Rome to relay the news of his success and Livy records that the document concerned arrived at Rome exitu ferme anni (almost at the end of the year). ${ }^{33}$ The Ludi Romani were celebrated with greater than usual splendour that year in celebration of the victory, ${ }^{34}$ and from this Brind'Amour concludes that the outcome of the battle must have been known at Rome by September, civil; in this case, Livy's claim that the letter had come at the end of the year has to be erroneous. Brind'Amour continues that had the calendar been in retard at this point, the battle of Cynoscephalae would have occurred in April or May, civil, and the "manifestations d'enthousiasme et de gaieté" that Livy associated with the Games would have had to have been held over for about six months - a period sufficient for such effervescence to have evanesced. On the other hand, with the calendar in advance, the battle would have been fought in August, civil, and the news of it still fresh in the mind of the Romans when the Ludi Romani fell due. ${ }^{35}$

[^78]Having shown that the calendar was in advance by about four months in this period, and claiming that there had to have been an intercalation somewhere between C203 and C191, Brind'Amour goes on to explain why, like Briscoe, ${ }^{36}$ he selects consular 193. Though agreeing with Briscoe as to the year of the intercalation, he disagrees with two of Briscoe's three arguments: ${ }^{37}$ those revolving around the eclipse of 202 BCE , and the ver sacrum of 194. The third argument, however, he finds convincing. Livy recounts how, at Rome in C193, it was determined that socii who had lent money to Roman citizens after the Feralia should publicly declare the debts concerned. ${ }^{38}$ Brind'Amour follows Briscoe in endorsing the view of Michels ${ }^{39}$ to the effect that "l'indication d'une date en fin de février par référence à une fête religieuse plutôt que par rapport aux Calendes de mars suivantes indique souvent la présence d'une intercalation quelques jours après. "40

[^79]${ }^{38}$ Livy, 35,7.3: cuius coercendi cum ratio quaereretur, diem finiri placuit Feralia quae proxime fuissent, ut, qui post eam diem socii civibus Romanis credidissent pecunias profiterentur, et ex ea die pecuniae creditae, quibus debitor vellet legibus, ius creditori diceretur (when a method of curbing this practice was sought, it was determined that a day should be fixed, namely the next occurrence of the festival of the Feralia, that whatever allies should have, after that date, loaned money to Roman citizens, should make a public statement to that effect, and that proceedings regarding money so loaned after that date should be governed by the laws of whichever state the debtor should elect). The Feralia was held on the 21st February.
3. Intercalation, the Battle of Zama, and the state of the calendar from C203-191

There had been no regular intercalation in the period immediately before 190 BCE. Two significant facts point to this: first, there was a dislocation of approximatcly four months between the Roman civil calendar and the tropical year; and second, the lex Acilia was passed. The exact details of this lex are entirely unknown, but at the very least it may be assumed that its promulgation was mandated by this calendrical dislocation, and that the law was concerned at least with the arrest of it and probably, to some extent, to its repair.

In the absence of other obvious usable fixed dates, the eclipses of 203 and 202 BCE have been used by various people to support various arguments. One of these is Patrick Marchetti.

Marchetti trustingly accepts Cassius Dio's/Zonaras ${ }^{\text {,41 }}$ claim that the eclipse of 19 th October, 202 BCE was visible to the Carthaginian general just before his ultimate battle. By following the movements of the Roman general, Scipio, he comes to the conclusion that the defeat of Vermina occurred approximately ten days after the eclipse and the battle of Zama, ${ }^{42}$ a defeat dated by Livy to 17 December, C202, and by Marchetti to 1 st November, proleptic julian. ${ }^{43}$ In the table ${ }^{44}$ reproduced below, he lists equivalents for the Ides of March C203-C190 based on zero, one, two, and three intercalations during this period, viz:

[^80]| Id. Mars des années varr. | Aucune intercal. |  | $\begin{gathered} \text { II } \\ \text { Une intercal.: } \\ 563 \end{gathered}$ |  | III <br> Deux <br> intercal.: <br> 56 ; et 563 |  | IV <br> Trois intercal.: 553, 557 et 561 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| $551=$ | 31 mars | 203 | 8 mars | 203 | 14 févr. | 203 | 22 janv. | 203 |
| $552=$ | 21 mars | 202 | 26 févr. | 202 | 4 févr. | 202 | 12 janv. | 202 |
| $553=$ | 11 mars | 201 | 16 févr. | 201 | 25 janv. | 201 | 2 janv. | 201* |
| $554=$ | 29 févr. | 200 | 6 févr. | 200 | 15 janv. | 200 | 15 janv. | 200 |
| $555=$ | 18 févr. | 199 | 26 janv. | 199 | 4 janv. | 199 | 4 janv. | 199 |
| $556=$ | 8 févr. | 198 | 16 janv. | 198 | 25 déc. | 199 | 25 déc. | 199 |
| $557=$ | 29 janv. | 197 | 6 janv. | 197 | 15 déc. | 198 | 15 déc. | 198** |
| $558=$ | 19 janv. | 196 | 27 déc. | 197 | 5 déc. | 197 | 27 déc. | 197 |
| $559=$ | 8 janv. | 195 | 16 déc. | 196 | 24 nov. | 196 | 16 déc. | 196 |
| $560=$ | 29 déc. | 195 | 6 déc. | 195 | 14 nov. | 195 | 6 déc. | 195 |
| $561=$ | 19 déc. | 194 | 26 nov. | 194 | 4 nov. | 94** | 26 nov. | 194* |
| $562=$ | 9 déc. | 193 | 16 nov. | 193 | 16 nov. | 193 | 9 déc. | 193 |
| $563=$ | 28 nov. | 192 | 5 nov. | 192 | 5 nov. | 192* | 28 nov. | 192 |
| $564=$ | 18 nov. | 191 | 18 nov. | 191 | 18 nov. |  | 18 nov. | 191 |

On the basis of the lengths of months of the republican calendar, the defeat of Vermina occurred 84 days before the Ides of March, C201, and so Marchetti counts back that number to present us with another table ${ }^{45}$ wherein he has calculated the equivalent dates of the defeat from each hypothesized Ides of March, C201 as listed above:

| I | II | III | IV |
| :---: | :---: | :---: | :---: |
| 16 décembre | 23 novembre | 1 novembre | 9 octobre |

From these calculations, he concludes that the result in the third column, the one with two intercalations, fits his hypothesis. "Dans le troisième cas, le délai entre la date de l'eclipse signalée par Zonaras (19 octobre) et la défaite de Vermina (1 novembre) est identique à l'invervalle qui a dû séparer la bataille et l'ecrasement des renforts de Vermina. Est-ce une simple coïncidence ou la preuve de ce que la troisième hypothèse correspond à la

[^81]réalité? ${ }^{145}$ It is in fact much more likely to be a matter of coincidence, as Marchetti's time frames are very tight, and such reconstructions are highly vulnerable to almost inevitable temptation to compress or expand time factors to suit a favoured theory. In addition, there are significant points overlooked by Marchetti in his exposition.

Contrary to Marchetti's belief, the eclipse mentioned by Zonaras in connexion with Zama could not possibly be the same as the one included by Livy ${ }^{47}$ in the prodigy list of the year in which the battle was fought, since the prodigies concerned, processed immediately after the consuls took office, must have been reported in the consular year that preceded it. Consequently, the diminution of the sun witnessed in Cumae must have been the result of the eclipse of 6th May, 203 BCE, rather than that of 19th October, 202 BCE. Not only did the earlier eclipse, as observed at Cumae, have a magnitude of approximately $38 \%$ as opposed to the approximately $5 \%$ of the later eclipse but it was of longer overall duration, a factor further contributing to visibility. Consequently, Marchetti's precise dating of the defeat of Vermina to 1st November, 202 proleptic julian, (c. ten days after the eclipse and the defeat of Hannibal at Zama) cannot be given credence.

The eclipse that allegedly occurred before the battle of Zama is recorded only in the twelfth century epitome by Zonaras of Cassius Dio, himself a rather late ( $2 / 3$ century) writer and otherwise completely unsubstantiated. Likelihood is that Brind'Amour is correct in discounting it and that for dramatic purposes, believing that an eclipse seen by a doomed general just before his final and disastrous battle was suitably apocalyptic, Dio or his source synchronised the two events. Working from recognition that the eclipse

[^82]mentioned by Livy in the list of 202 is not the same as that noted by Dio/Zonaras just before the battle of Zama, and that the magnitude of the eclipse of 202 was in fact of such a degree as to guarantee inobservability, it emerges that there is nothing formally to preclude the conclusion that there was but a single intercalation between C203 and C191, and Marchetti's argument ${ }^{88}$ finally collapses.

Most chronologists agree that, regardless of how many intercalations there may have been during this period and in which years they were situated, the year in which the lex Acilia was promulgated was intercalary. ${ }^{49}$ To repeat, although the details of this law are unknown, general opinion has it that, at a time when there was a significant dislocation between the Roman civil and the tropical years, any law concerned with intercalation would have been likely to have been put into effect the very year of its promulgation. If the sinuation were desperate enough to necessitate such measures being taken, then the situation was desperate enough for those measures to have been immediately implemented. C191, then, was certainly an intercalary year. What other years, if any, in our period were intercalary?

It has already been observed that Brind'Amour finds in C193 a prime candidate for intercalation, based solely upon the tact that a festival in late February was used as a terminal date ${ }^{50}$ - the Feralia on 21 February. Michels proposes that such dating could be the result of lack of knowledge concerning either the chance of there being an intercalation that year, or the number of days to be intercalated, confronting a Roman

[^83]who, nonetheless, needed to describe a date in some way. ${ }^{51}$ Whatever one's view of Michels' criterion, there is another consideration that can be adduced in favour of intercalation at the end of consular 193. Ainitiving to Livy, towards the end of the year, the electoral canvassing was pursued with more vigour than usual, with many men, patrician and plebeian, vying for selection. ${ }^{52}$ Such frenzied activity might very well have led to a delay in the election process, necessitating an intercalation to provide more time between its commencement and the Ides of March.

To sum up, it is my conciusion that in the period C203-191 that there were only two intercalary years - C193 and C191. The discrepancy between the Roman calendrical year and the tropical year that emerges from the circumstances of the eclipse of 190 BCE was too great for there to have been anything approaching systematic intercalation prior to that event. Intercalation was devised to inaintain a correct relation between the natural seasonal and artificial civil years. Any failure to apply this device in the proper manner would cause a progressive break-down in the relationship and a widening gap between the calendrical and tropical years. Remarkably, by 190, calendrical chaos had been allowed to become endemic. Only in C171, if the proposal of the previous section is correct, were serious steps finally taken to remedy the situation. Since the Ides of March of consular 203 fell on 14th Feb, 203 julian, regular intercalation must have already ceased prior to that year. When and how the seeds of calendrical confusion may have been sown will emerge in the following section.

[^84]
## C. A Reconstruction of C218-C204

The remaining period, C218-C204, embracing most of the second Punic war, is particularly intractable given the lack of guaranteed termini both at beginning and end. It is small wonder that few modern researchers have cared to examine the period in as much depth as, for example, the clearly defined counterpart of C190-C167. The starting point of any investigation, obviously, must be the Zama related initial terminus established for the period C203-C190 in the previous section. With no clearcut astronomical synchronisms available for use, further backward reconstruction must be based largely on seasonal references provided by Livy and Polybius, both of whom, some have suspected, ${ }^{1}$ have allowed dramatic considerations to override at times strict chronological accuracy. Apparent timetables of military manœuvres must be scrutinized with particular care, bearing in mind that a degree of unavoidable subjectivity with regard to allotment of time for various operations may inject a margin of error into the best meant calculation.

[^85]In a nutshell, calibration of proleptic julian and Roman republican calendars for 218-204 bristles with difficulties. Nevertheless, the information available is not necessarily so unsatisfactory as to dictate complete agnosticis!n, let alone despair.

## 1. The Derow System (3)

The second part of Derow's 1976 article ${ }^{2}$ covers the period currently under discussion: 218-204 BCE. Earlier in the article, he sought to establish that consular 203 (Derow's 202) was the final year of anything approaching regular intercalation. Following Macrobius' insistence that normally intercalation was biennial, Derow postulates such intercalations from the end of consular 219 to consular 205. Unfortunately, in his treatment of these years, Derow does not deem it necessary to provide a detailed justitication of his choice of intercalary years nor a systemic integration of seasonal indications with diagnosed intercalary blocks. If a reader is solely in pursuit of a rough and ready dating for a few Hannibalic battles, then Derow's equations may offer a functional nostrum, but if the requirement is something approaching a clear, convincing, coherent and accurate reconstruction of the middle Republican calendar, they are of little use.

It is to be noted that Derow's table of equivalent julian dates for this period again contains palpable errors, ${ }^{3}$ some of which can be attributed, no doubt, to typographical

[^86]carelessness; fortunately, these appear to have little effect on overall results. Once again, in addition, Derow wrongly identifies proleptic julian leap years. Instead of 219, 215, 211, 207, and 203, these should be 217, 213, 209, and 205.

In nuce, using the few supplied Roman civil dates and the seasonal references carefully gleaned from the texts of Livy and Polybius, Derow comes to the conclusion that at the beginning of the Second Punic War, the Roman calendar was in advance or the tropical year by approximately one month. ${ }^{4}$

Derow embarks on justification of his julian equivalents for the Roman civil dates concerned with an examination of the various seasonal references made in connexion with the Roman disaster of 217 BCE - the battle of Trasimene, for which Ovid provides a civil calendar date amounting to 21 Junius. ${ }^{5}$ Derow equates this with the 9 th of May, 217 BCE. ${ }^{6}$

The first indication that this battle was fought in early May Derow finds in Hannibal's premature departure from his winter quarters in Cisalpine Gaul, approximately one month after which the battle allegedly took place. ${ }^{7}$ Difficulty with Derow's diagnosis to such effect will be discussed in a later section. While such is the sole forward-moving pointer that Derow uses, he claims that the same conclusion can be drawn by working
surrounding dates.
219- 2 xi $219=9 \times x 219$
31 xii $219=8$ xii 219
215-19 vii $215=18$ vii 215
12 xi $215=13$ xi 215
209-25 v $209=26$ v 209
${ }^{4}$ Derow (1976), p. 274.
${ }^{5}$ Ovid, Fast. 6,763-768.
${ }^{6}$ Derow (1976), p. 275.
${ }^{7} \mathrm{ibid}$.
backwards from reported circumstances of Hannibal's arrival at Gerunium. ${ }^{8}$ According to Polybius, ${ }^{9}$ the weather at the time was very conducive to agricultural activities involving produce. Assuming a reference to the high summer grain harvest, Derow sets Hannibal's appearance at Gerunium in late July or early August. ${ }^{10}$

After enumerating and assessing the time-frame of events between the battle at lake Trasimene, and Hannibal's arrival at Gerunium, Derow estimates that 84 days had passed. ${ }^{11}$ Shortly after the battle, Hannibal moved to the Adriatic coast, marching for 10 days. Once there, he allowed time for his army to recuperate, and Derow considers that a minimum of three weeks would have been required. ${ }^{12}$ Hannibal then proceeded to plunder other territories, crossed the Apennines, and moved through Samnium and Campania, to Gerunium, a journey which Derow estimates as consuming a further 40 days or more. ${ }^{13}$ This furnishes him with his 84 days and he observes that "the first of August is 84 days after 9 May and corresponds quite well to Polybius' notice in 3.100.8. ${ }^{\text {.14 }}$

Derow then goes on to consider the dictatorship of Quintus Fabius Maximus which began shortly after the Roman defeat at Trasimene, on, according to Derow's calculations,

[^87]

 most of the country was flat and easy to overrun, and the foragers were, so to speak, infinite in number, and the weather was very favourable for fetching in the grain, an enormous quantity was
the Kalends of Quinctilis, equivalent to the 18th May, 217 BCE. ${ }^{15}$ When his six-month tenure of authority was coming to an end, the dictator turned his armies over to the consuls ${ }^{16}$ who then carried on the war according to his directions until the end of autumn. ${ }^{17}$ If Fabius had assumed the dictatorship in mid-May, then his six-month imperium would expire in mid-November. Had he relinquished his armies to the consuls in the last month of his office, there would still have been some autumn left. Derow proposes that had the battle at Trasimene been much later than 9th May, autumn would have already been over. ${ }^{18}$

The only counterindication ${ }^{19}$ to his dating of Trasimene that Derow perceives is a statement in Polybius, the source he has followed so unswervingly up until this point.

According to Polybius, $5,101.6,{ }^{20}$ Philip learnt of the battle after watching the Nemean


#### Abstract

${ }^{15}$ ibid. ${ }^{16}$ Livy, 22,31.7: ipse per Siciliam pedibus profectus freto in Italiam itaiecit, litteris Q. Fabi accius et ipse et collega eius M. Atilius, ut exercitus ab se exacto iam prope semestri imperio acciperent ([the consul] himself proceeded overland through Sicily to the straits, where he crossed in Italy. He and his colleague Marcus Atilius had been sent for by way of letters from Quintus Fabius so that they could take over the armies of the dictator whose six month imperium was coming to an end). ${ }^{17}$ Livy, 22,32.1: consules Atilius Fabiano, Geminus Servilius Minuciano exercitu accepto, hibernaculis mature communitis, quod reliqutim autumni erat Fabi artibus cum summa inter se concordia bellum gesserunt (the consuls - Atilius taking over the army of Fabius and Geminus Servilius that of Minucius - constructed a winter camp betimes, and carried on the war for the rest of the autumn with the greatest harmony, on the lines laid down by Fabius).


${ }^{18}$ Derow (1976), p. 276.
${ }^{19}$ This objection Derow appears not to have taken very seriously, broaching the subject in a footnote - a lengthy footnote, it is true, but a footnote, none:heless.

 'Avpißas (a little after he had taken his place to witness the games a courier arrived from Macedonia bringing the intelligence that the Romans had been defeated in a great battle, and that Hannibal was master of the open country).
games, held on the 12th of the Argive month of Panamos. Though attempts ${ }^{21}$ have been made to equate this month with the Attic Hekatombaion, Derow asserts that chis identification is incorrect and that the Attic month of Skirophorion is the more likely equivalent. As this Attic month began on the last new moon before the sumner solstice, an equation with Panamos would have the Nemean games fall on 19th June, proleptic julian. Derow expresses a note of unceriainty about "the reliability of Polybius' whole account" and questions the "chronological usefulness" of the passage. ${ }^{22}$ It is remarkable that, while impugning the "chronological usefulness" of one passage which unfavourably impinges on his calculations, Derow has no such doubts in respect of others in Polybius that suit his reconstruction.

Moving from Trasimene to Cannae, Derow recalls the Roman civil date of the battle, preserved by Macrobius, ${ }^{23}$ which was 2 Sextilis. This Derow equates with 1 July, 216 BCE. ${ }^{24}$ The determining factor for this equation is, it appears, a statement in Polybius to the effect that Hannibal was induced to leave Gerunium because the season was advanced enough for there to be crops available to feed his army. ${ }^{25}$ Derow embraces this representation without question and goes on to claim that it testifies that Hannibal set out from Gerunium at the end of May, the time of year when an army was able to provision

[^88]itself from the field. ${ }^{26}$ Alarmed by Hannibal's capture of the Roman supply depot at Cannae, the commanders in the field apprised Rome of the situation and were informed that the consuls were being despatched to Cannae to assist them. Derow insists that it was within two weeks of this despatch that the battle was fought. "Events, in a word, moved along quickly once Hannibal left Gerunium: from then until the battle itself there elapsed perhaps a month or slightly more"; ${ }^{27}$ hence Derow's setting the battle at the beginning of July, 216 BCE.

To Derow's mind, further corroboration that such calibration is on the right lines is provided by Fabius' proclamation the following year that the grain be brought from the fields into the city before the Kalends of Junius. ${ }^{28}$ Derow regards this as referring not, as Livy's words appear to suggest, to an early grain harvest in 215 but rather to grain long stock-piled in storage in vulnerable rural areas. ${ }^{29}$ The measure was taken, according to Derow, to deprive Hannibal of supplies. He maintains that this decree was passed at the beginning of the campaigning season, and his table equates kal. Jun. with 20 April, "which is about as late as one can go. "30

The only other Roman civil date known for the period is that of the battle at the Metaurus. According to Ovid, this encounter between Hasdrubal and the two Roman

[^89]consuls fell on 22 Junius, ${ }^{31}$ the day after the date of the Roman defeat at Trasimene. By Derow's table of equivalents, this works out to the 19th of May, 207 proleptic julian.

Derow maintains that in 207 BCE, Hasdrubal made his Alpine crossing early in the year. ${ }^{32}$ From various classical sources it is known that this was earlier and accomplished with greater ease than expected by both the Romans and Hannibal. ${ }^{33}$ Derow calibrates the beginning of the consular year concerned, the Ides of March, with 13th Feb., proleptic julian. Shortly after crossing the Alps, Hasdrubal began the siege of Placentia, and, knowing this, his brother lingered in his winter camp, well aware how much time sieges could consume. Finally abandoning the fruitless investment of Placentia, Hasdrubal sent some horsemen with a letter to his brother, who at that time, shadowed by Roman forces, began a withdrawal to Metapontum. The distance to be covered by the horsemen was great, they were apprehended by Roman soldiery, ${ }^{34}$ and the letter was brought to the
${ }^{31}$ Ovid, Fast. 6,769-770:
Postera lux melior: superat Masinissa Syphacem, et cecidit telis Hasdrubal ipse suis
(the next day [IX Kal. Jun.] is luckier: on it Masinissa defeated Syphax, and Hasdrubal fell by his own sword).
${ }^{32}$ Derow (1976), p. 280.
 'A $\sigma \delta \rho o i ́ \beta o v \pi \alpha \rho o v \sigma i \alpha \nu$ tis 'I $\tau \alpha \lambda i \alpha \nu$ (Hasdrubal's arrival in Italy was much easier and more rapid than Hannibal's had been).

Livy, 27,39.4: etsi ea aestate transiturum in Italiam fratrem crediderat (he had believed, indeed, that his brother would come over into Italy that summer).


 $\ddot{\sigma} \sigma \alpha \tau \hat{\epsilon} \omega \varsigma{ }^{\text {' }} \mathrm{A} \nu \nu i \beta \alpha \varsigma \bar{\epsilon} \xi \delta i \hat{\eta} \lambda \theta \in \nu$ (in the meantime his brother Hasdrubal, with the army he had enlisted in Celtiberia, marched to Italy. Being received in a friendly way by the Gauls he passed over the Alps by the road that Hannibal had opened, accomplishing in two months the journey which had previously taken Hannibal six).
${ }^{34}$ Livy, 27,43.1-2: cunt per medios hostes totam ferme longitudinem Italiae emensi essent ... a vagis per agros pabulatoribus Romanis ad Q. Claudium propraetorem deducuntur (when they had already traversed nearly the whole length of Italy through the midst of the enemy... they were brought by Roman foragers who roamed about the country to the midst of Quintus Claudius, the
consul, C. Claudius Nero, at Canusium. On receipt of the intelligence contained therein, Claudius devised the audacious plan of dividing his army, some of whom would remain to fool Hannibal into believing that the entire force still remained, while he led the rest to join the other consul, M. Livius Salinator. ${ }^{35}$

Derow proposes that Hasdrubal's messengers were captured at the end of April and that Claudius, consequently, will have embarked on his extraordinary march on or very close to the first of May. ${ }^{36}$ "This last is what matters for dating the battle," asserts Derow, and, attributing without qualms to Claudius Nero and his soldiers a march of some 402 km (the distance from Canusium to Sena Gallica) in what has to have been substantially less than 20 days, ${ }^{37}$ he proceeds to claim with confidence that the battle of Metaurus
propraetor).
${ }^{35}$ Livy, 27,43.11-12: ipse de toto exercitu civium sociorumque quod roboris erat delegit, sex milia peditum, mille equites; pronuntiat occupare se in Lucanis proximam urbem Punicumque in ea praesidium velle; ut ad iter parati omnes essent. profectus nocte flexit in Picenum. et consul quidem quantis maximis itineribus poterat ad conlegam ducebat, relicto $Q$. Catio legato qui castris praeesset (as for himself, out of the whole army he chose the best soldiers, citizens and allies, six thousand infantry, a thousand cavalry. He announced that he intended to seize the nearest city in Lucania and its Carthaginian garrison; that they must all be ready for the march. Setting out at night, he changed his direction to that of Picenum. The consul in reality was leading his army to his colleague by the longest of forced marches, having left Quintus Catius, his lieutenant, to command the camp).
${ }^{36}$ Derow (1976), p. 280-1.
${ }^{37}$ The speed of travel of Roman armies is a contentious matter. Nichols (1978), p. 41, thinks it inconceivable that legionaries could consistently have marched more than 25 km per day for any length of time and suggests that the 20 km per day of armies of the 19th and early 20 th centuries is a more probable paradigm. Despite Livy's emphasis [27,45.11] of extraordinary circumstances nihil morari, nec abire ab signis nec subsistere nisi cibum capientes; diem ac noctem ire; vix quod satis ad naturale desiderium carporum esset, quieti dare (there was no loitering, no halt except while taking food; they marched day and night; they gave to rest hardly enough time for the needs of their bodies) - it is not easy to believe that over more than two weeks they covered at least 25 km a day.
would have taken place in the third week of May, supporting his proposed equation of the Ovidian date of 22 Junius with 19th May, proleptic julian. ${ }^{38}$

Derow highlights one other chronological indication in the sources which, he admits, "may not go very far. ${ }^{139}$ The year concerned is 206 . Livy notes that the consuls, L. Veterius Philo and Q. Caecilius Metellus, left Rome principio veris. ${ }^{40}$ Derow observes that it was not possible for the consuls to have entered office, celebrated the Latin games, and then departed from Rome by principio veris. ${ }^{41}$ He goes on to contemplate the possibility that principio veris might be a conventional phrase, meaning early in the consular year, but admits that "there is, to be sure, no particular reason to believe this is the case. ${ }^{42}$ In Livy's account there is no mention of the Latin games and conceivably, with the State in such a condition, it was considered more expedient to get the consuls out where they were required than to hold games, or perhaps, and perhaps preferably, the games were dealt with very speedily, as the essential part of the ceremony occupied only one day. ${ }^{43}$

[^90]
## 2. The Brind'Amour System (2)

Brind'Amour's penultimate section of his work on the Republican calendar deals with the years of the Second Punic War. ${ }^{44}$ For the first year of the war, 219 bce, he notes that Polybius provides a seasonal reference, claiming that the departure of the consul L. Aemilius for Illyria was just before the beginning of summer. ${ }^{45}$ Due, however, to the paucity of detail and lack of corroboration from any other ancient source, he hesitates to base any far-reaching hypothesis upon it. ${ }^{46}$ He then proceeds to an examination of seasonal allusions in the accounts of Livy and Polybius in relation to the events of 218 BCE, a year of which Derow fails to take account.

At the beginning of spring, 213 BCE , Hannibal left New Carthage to advance on Italy, reaching it after five months. ${ }^{47}$ Brind'Amour calculated that his arrival took place at the end of November (the Alpine crossing having occupied fifteen days from the setting of the Pleiades) ${ }^{48}$ and that it must therefore have begun towards the end of June, julian. ${ }^{49}$ In support of this conclusion, he adduces the fact that at the time of the revolt

[^91]of the Cisalpine Gauls, the Romans were aware of no more of Hannibal's movements than his crossing of the Ebro. The cause of the revolt was Rome's planting of colonies at Placentia and Cremona in Gallic territory. ${ }^{50}$ For the foundation of Placentia, Asconius provides the date of the Kalends of June. ${ }^{51}$ Brind'Amour estimates that the Gallic revolt occurred some time after the Kalends of June, civil, approximately at the time when the news of Hannibal's crossing had become known at Rome, dated by him to the end of June, julian, and so "le calendrier est donc, grosso modo, en accord avec les saisons, bien qu'on puisse imaginer, dans un sens ou dans l'autre, un léger écart. " ${ }^{52}$

Brind'Amour then examines Hannibal's subsequent movements, and those of the Roman consuls in connexion with the Roman defeats at the Ticinus and the Trebia, the latter of which was incurred at the time of the winter solstice, ${ }^{53}$ after which the defeated consul Sempronius went to Rome to hold the elections, and then returned to his troops in Placentia to establish winter quarters. On the basis of the request to Sempronius from the consul designate, Flaminius, that Sempronius' troops arrive at Ariminum by the Ides of March when and where Flaminius would assume office, Brind'Amour states that "les Ides

[^92]de mars 217 correspondent à un moment où les troupes occupent encore les quartiers d'hiver, ou s'apprêtent les quitter. ${ }^{554}$ The calendar was therefore pretty much in accord with the tropical year, possibly even slightly in advance, though "un retard, en tout cas, parait impossible. ${ }^{55}$ Therefore, to Brind'Amour's mind, there would have been no intercalation at the end of consular 218.

The end of consular 217 is a different case. From the beginning of spring when Hannibal left his winter camp ${ }^{56}$ to the Roman defeat at lake Trasimene, Brind'Amour proposes to allow "au plus, un ou deux mois. ${ }^{47}$ We already know from Ovid ${ }^{58}$ on what civil date this disaster fell, and so, as the previous year was allegedly in relative accord with the seasons, the case must be the same for the present one, though an advance is still possible, "mais un retard est, cette fois encore, impossible." 59

The solar eclipse of 11 February, 217 BCE julian is another occurrence, according to Brind ${ }^{\text {'Amour, }}$ which prevents the possibility of the calendar having been behind the seasons. This eclipse, partial for Rome and Italy, features in a list of prodigies processed according to Livy shortly after the consuls' entry into office that year. ${ }^{60}$ Brind'Amour

[^93]${ }^{56}$ LIVY, 22,1.1: iam ver adpetebat; itaque Hannibal ex hibernis movit (spring was now drawing on; and accordingly Hannibal moved out of his winter encampment).
${ }^{57}$ Brind'Amour (1983), p. 158.
${ }^{58}$ Ovid, Fasti 6,768.
${ }^{59}$ Brind'AmOUR (1983), p. 158.
${ }^{60}$ Livy, 22,1.9: solis orbem minui visum ... et Arpis ... pugnantem cum luna solem (the sun's disc had seemed to be contracted... and at Arpi... the sun had seemed to be fighting with the moon).
rejects Derow's tacit supposition that the eclipse occurred after the consuls entered office ${ }^{61}$ on the grounds that "il contredit ... le donne historique."62 This "historical fact" is the announcement to the newly incumbent consuls of the prodigies "qui avaient marqué les derniers mois de l'année précédente. ${ }^{163}$ Brind'Amour is prepared to countenance that the calendar could be slightly in advance of the seasonal year.

Like Derow, ${ }^{64}$ Brind'Amour discusses the Polybian report that Philip allegedly received news of the battle at Trasimene during the Nemean games, the principal day of which, he notes, has been identified as either the 12th or the 18th of the Argive month of Panamos. He does not deem it necessary to establish irrefutably the relative order and correspondence of Peloponnesian Spartan and Athenian months, but rather to appreciate that Philip received the news on the 12th or 18th day of a (supposedly) lunar month, and that "l'événement historique se produisit quelques jours avant un $12^{c}$ ou un $18^{c}$ jour de la June. ${ }^{165}$ The 12th day of Panamos, he concludes, would correspond to the 20th or 21st of June, and the 18th of Panamos to the 26th or 27th of June, julian. Brind'Amour follows a scholiast to Pindar who places the Nemean games on the 18th of Panamos, and so he decides that, as the calendar was neither in retard nor indeed very far in advance of the seasonal year, the proleptic julian date of Trasimene was 22 nd June: "c'est un $14^{e}$ jour de la lune, quatre jours par conséquent avant les Jeux néméens du 18 panamos. ${ }^{66}$

[^94]Going on to consider the dictatorship of Q . Fabius Maximus, Brind'Amour observes that for there to have been some autumn left when he handed over his armies to the consuls, ${ }^{67}$ the battle of Trasimene would have had to have been fought "très, très tôt" in spring, a circumstance which an analysis of the preceding events refutes. ${ }^{68}$ If, he says, Livy se: the beginning of winter on the traditional date of 1st November, and six months were counted back, then Fabius would have entered his consulship around 1st May. If another couple of days were subtracted because Fabius did not become dictator immediately after the defeat, then it would mean that the battle at Trasimene occurred around mid-April, julian, at the earliest. ${ }^{69}$ This would indicate a calendrical advance of more than two months, contrary to Brind'Amour's steadfast insistence that the maximum possible advance in this year was a fortnight. Accordingly, Brind'Amour has to insist that "le reseignement de Tite-Live, dans !'état où il nous est parvenu, n'est donc pas fiable,"70 and to place strong emphasis on a passage in Polybius which clearly has the dictator relinquishing his command on the entry into office of the consuls of $216 .^{71} \mathrm{He}$ concludes that Livy attributed actions of the dictator and the master of the horse to the new consuls, confusing the two pairs. ${ }^{72}$

[^95]Regarding Hannibal's relocation to Gerunium at a time when Polybius says that the weather was favourable for gathering produce ( $\left.\sigma v \gamma \kappa о \mu \nu \delta \eta_{\nu}\right){ }^{73}$ Brind'Amour rejects the possibility of the context being the period close to the summer solstice, the typical time of the grain harvest, ${ }^{74}$ as this was far too early for Hannibal even to be considering moving into winter quarters. The reference is not the grain harvest, asserts Brind'Amour, ${ }^{75}$ but rather autumnal produce, such as grapes, picked in September, October, or even November; "Il n'y a pas moyen de douter que c'est ainsi qu'il faille interpréter le texte. ${ }^{\text {"76 }}$

For Brind'Amour, consular 217 concluded with an intercalary block. ${ }^{77}$
In 216 BCE, Hannibal left Gerunium around the time of the harvest, ${ }^{78}$ and took Cannae, the Romans' granary. As mentioned above in the Derow discussion, the battle of Cannae fell on 2 Sextilis, civil. Brind'Amour holds that if the equivalents obtained from the preceding year are used, the civil date would correspond to 23 July if C217 were not intercalary, or 14 August if it were. ${ }^{79}$ As earlier events, and even later events, show, the year must have been intercalary and so the later date for Cannae is to be preferred.

[^96]Brind'Amour believes that the decree of Q . Fabius that the grain be brought to the cities before the Kalends of June ${ }^{80}$ specifically points to a calendrical retard of one month in C215, effected by insertion of an intercalry block at the end of consular $216 .{ }^{81} \mathrm{He}$ submits that if C215 were not intercalary, the Kalends of June $2: 15$ would correspond to 4 June julian; to 27 June julian if it were. As this latter date fits the situation better, he declares that "l'an 215 [C216] fut donc, comme l'an 216 [C217], intercalaire. ${ }^{182} \mathrm{He}$ disagrees with Derow who is of the opinion that the orders of Fabius relate to grain reserves, claiming that frumenta ex agris could only refer to grain freshly harvested.

The letter written by M. Marcellus in his Sicilian winter quarters and read to the Senate by the new consuls ${ }^{83}$ of C 212 is indicative, according to Brind'Amour, of the fact that there had been no intercalation since that at the end of C 216 . He notes that at the time of the receipt of the letter, the calendar was either in accord with or slightly in advance of the seasons. ${ }^{84}$

He then turns to the statement of Livy that the Latin festival, feriae conceptivae, detained the consuls in Rome until the 26th of April,C21285 after which they departed to Samnium. At this time, the Capuans, suffering from hunger, applied to Hannibal for help.

[^97]Hanno was despatched, and when he was near Beneventum, he ordered that grain be collected from neighbouring allies to be brought to the Capuans; ${ }^{86}$ the clear implication being that the grain was that of the previous year. Q. Fulvius Flaccus, on hearing of the Carthaginians' movements, left Samnium and shortly after routed Hanno and his soldiery. Brind'Amour points out that the consuls were in Samnium in May civil, corresponding to the end of June, proleptic julian, as the harvest of 212 BCE had not yet taken place. ${ }^{87}$ Subsequently, the consuls relocated to Campania, non ad frumenta modo, quae iam in herbis erant, corrumpenda, sed ad Capuam oppugnandam (not merely to ruin the grain, which was by now green, but also to besiege Capua). ${ }^{88}$ Brind'Amour notes that the grain was in herbis at the time, corresponding to April and May julian, "ce qui permet de constater que le calendrier était à peu près en accord avec les saisons." ${ }^{89}$

Focussing upon Derow's detection ${ }^{90}$ of a possible chronological reference point in 206 BCE, when Livy has the consuls set out for their provinces principio veris, ${ }^{91}$ Brind'Amour postulates that their departure from the city was no later than mid-April civil, indicating a slight calendrical advance. Eventually, he feels obliged to admit, like Derow, that really this reference has no precise chronological implications. ${ }^{92}$

[^98]Whereas Derow alleges a relationship between the spring equinox of 204 BCE and the coming to Rome of the Mater Idaea, ${ }^{93}$ Brind'Amour observes that the Plinian passage cited by Derow contains no mention of the spring equinox whatsoever. The only reasonable deduction from the passage, he concludes, is that when Cybele was introduced to Rome on 4 April, C204, the harvest had not yet taken place. ${ }^{94}$

Overall, in respect of the period under discussion, Brind'Amour concludes that intercalary blocks can be definitely inserted in 216 BCE and 215 BCE, that is consular 217 and 216. The tables at the back of his book spell out his proposed calibration. For the years 211 BCE to 203 BCE inclusive, Brind'Amour refrains from tabulating equivalences on the grounds that precise identification of intercalated years is extremely hazardous, if not impossible. It is, however, possible to establish how many intercalations are required for the years concerned. The number of julian days from the Kalends of Jansary, C211 to the final day of December, C203, working from the equivalents provided by Brind'Amour, equals 3262, whilst the number of civil days for the same period equals 3195. Simple subtraction reveals the shortfall to be 67 days. Therefore, in this nine-year period, there were three intercalations, two of 23 days and one of 22 days. To repeat, Brind'Amour is reluctant to attempt to guess in which years these intercalary blocks were actually placed.

Whereas Derow, inspired by Macrobius, proposes seven intercalations for our period, Brind'Amour has only five. My reconstruction, which will be explained in the following section, allows also for only five intercalations between 218 BCE and 204 BCE .

[^99]
## 3. Intercalation and the Second Punic War

To repeat what was emphasized earlier, there are very few seasonal references available for use with respect to the period C218-204 to assist calibration of Roman republican years with proleptic julia, counterparts. As has been seen above, beginning with C219, Derow intercalates every second year down to C203, something that I consider unwarranted and insuppoitable. Brind'Amour, on the other hand, has more realistically concluded that there were somewhat fewer intercalations in the same period. That there must have been some intercalations is quite clear, particularly if one accepts my proleptic julian equivalent for the Ides of March, 203 civil, and works backwards from it.

If there had been no intercalations in the period under discussion, the julian equivalents of the Ides of March for these years would have been as follows:

| $218=$ | 17 July, 218 | $210=$ | 27 April, 210 |
| :--- | ---: | :--- | ---: |
| $217=$ | 7 July, 217 | $209=$ | 16 April, 209. |
| $216=$ | 27 June, 216 | $208=$ | 6 April, 208 |
| $215=$ | 17 June, 215 | $207=$ | 27 March, 207 |
| $214=$ | 6 June, 214 | $206=$ | 17 March, 206 |
| $213=$ | 27 May, 213 | $205=$ | 6 March, 205 |
| $212=$ | 17 May, 212 | $204=$ | 24 Feb., 204 |

The consuls, for several years, would have been entering into office in the middle of the tropical year. The few seasonal references that we have for the period's earlier years emphatically exclude such a possibility.

In the previous section we tentatively established one terminus for the final year of this period, consular 204. The final day of consular 204 corresponded to 13 th February, proleptic julian 203 BCE. If consular 204 had been intercalary, the Ides of March would have fallen on the 2nd Feb., 203 BCE, allowing for insertion of 22 days, a block preferred to 23 days on the grounds that 23 days rather than 22 were added to consular 193, the next
year to be intercalated. If C204 had not been an intercalary year, then the Ides of March would be equated with the proleptic julian date of 24th February, 203 bCE. The choice between the dates is formally not easy as there are no precise seasonal references by which one can be guided.

Although it has been claimed that there was a relationship between the coming to Rome of the Mater Idaea and the spring equinox of $204 \mathrm{BCE},{ }^{95}$ such a precise nexus cannot be justified. All that can be assumed is that on 4 Aprilis, 204 civil when Cybele was introduced at Rome, the harvest had not yet begun. The range of dates available is consequently rather large, but, moving backwards from the calculations of the subsequent year (which will be expounded later) and forward from the previous year, I propose that 4 Aprilis corresponds with 16th March, julian; and that the Ides of March, C204, was therefore the 24th February, 204 BCE, with the effect that the Roman calendar was at this stage almost one month ahead of the seasons. Subsequent failure to intercalate widened this gap until by Cl 89 it was about four months in length.

To leap backwards now to 217 BCE, a natural first step is the solar eclipse, partial as viewed from Italy, of 11th February. Observations of this eclipse feature without any special prominence among the prodigies ${ }^{96}$ recorded by Livy that were due to be expiated, after their entry upon office, by the consuls of 217. Curiously, Derow refrains from mentioning the eclipse in his text; even more curiously his table of equivalents shows that he has placed it after the consular year's commencement. It was the duty of the newly incumbent consuls to expiate those prodigies which had been reported, verified, and accepted between the last expiatory rites performed by their predecessors and their own
${ }^{9 s}$ See Derow (1976), p. 273.
${ }^{96}$ See chapter 6 below, the Livian prodigies 6 and 9 for the year concerned.
entry into office. Therefore, to assume that the reported, verified, and accepted prodigies connected with the eclipse occurred on the 25th of March, C217, even if only ten days after the inauguration of the consuls, is clearly illogical. As Livy claims that the consul presented the prodigies to the senate as they had come to him, ${ }^{97}$ it is not out of the question to understand that as meaning 'in the order in which they had come to him', though admittedly no solid conclusions can be drawn from the order of the prodigies in Livy's lists. Still, if the eclipse had been a last hurried addition to the prodigy list just prior to the consul's relatio, one could legitimately expect to find it in a place of prominence, either first or last, but this does not prove to be the case, implying that the eclipse had not been an extremely recent occurrence. Brind'Amour's system places it on the 15 th February, civil, allowing at this point for the calendar to be very slightly in advance of the tropical year. ${ }^{98}$ My own calculations, it will emerge, calibrate it with the 8th February, civil.

No investigation of 217 BCE can avoid consideration of the circumstances of the battle of Trasimene. Derow alleges that in C217, Hannibal left his winter quarters early and approximately one month later emerged victorious from the battle at Trasimene. The juljan equivalent of Ovid's date for the battle, 21st Junius, civil, is, according to Derow, 9 th May. ${ }^{99}$ This assertion is indeed remarkable because, although Derow claims support from passages in both Polybius and Livy, there is little real indication in either that

[^100]Hannibal moved from his winter quarters with any exceptional celerity. ${ }^{100}$ Indeed, Polybius does not have him explicitly decamping at all, merely enquiring as to an appropriate route. Livy's use of the word itaque may be said to imply that Hannibal left at the usual time. It is true that a little further on, Livy notes that Hannibal left maturius, but it is possible to propose that his movements were determined by the weather conditions at the time, rather than being bound up with the general time of year. Such an hypothesis could find basis in an earlier section of Livy, referring to the same movements, when Hannibal struck camp ad prima ac dubia signa veris (on the first doubtful signs of spring). ${ }^{101}$ Hannibal had to ensure that the passes through the mountains were clear of snow before he attempted a crossing, and "it is pertinent to note that in some years skiing in the higher Apennine resorts such as Abetone can go on into May. ${ }^{102}$ If such extreme weather conditions had been present at this time, Hannibal may have had to have remained in Bologna for longer than normal in relation to the Roman civil calendar, but moved the very moment the weather ameliorated sufficient for travel, hence the maturius.

The Polybian passage (3.78.8) continues:




[^101]news spread in the camp that the general was going to lead them through marshes, everyone was very reluctant to start, imagining that there would be deep bogs and quagmires).

From this it may be assumed that the inquiries made by Hannibal were not instantly followed by the movement of his troops. Also, the adverse conditions experienced by the men clearly indicate that winter had not recently passed but that the muddiness of spring was well advanced. ${ }^{103}$

Both Derow ${ }^{104}$ and Brind'Amour ${ }^{107}$ allow only a shor. interval between Hannibal's departure from his winter quarters in 217 BCE and the battle at Trasimene: all up, no more than two months, and I see no compelling need to challenge this. Allowing then, that "Fannibal struck camp at the earliest in late April or more likely, to be certain that the pusses through the Apennines were traversable, early May, julian, equating his removal with around mid-April, civil, the battle, fought approximately two months later, on 21st June, civil, occurred by my reckoning on 14th July, julian. If so, the calendar

[^102]was not in advance of the scasons as Derow claims. ${ }^{106}$ nor even in accoid as Brind'Amour concludes ${ }^{107}$ but instead approximately three weeks behind.

With respect to the Polybian passage regarding Philip's learning of the Roman defeat at Trasime,? during the Nemean games, since counterparts within other Greek calendars for the Argive month of Panamos are not yet irrefutably established, and since too there is a strong pessibility that the calibration of many local Greek calendars with the tropical year varied considerably, it is probably best to refrain from attempting to prove an advance, retard or concordance of the civil calendar with the tropicai year on this basis.

As far as Derow's estimation of the interval between the battle at Trasimene and Hannibal's encampment in Gerunium ${ }^{108}$ is concerned, the time-periods given are extremely subjective and could vary significantly in either direction. Supposing we follow his contention, however, that $8 \mathbb{1}$ days had passed, and add these days to my determination for the battle of Trasimene, then it emerges that Hannibal had established himself in Gerunium by mid-September, 217 BCE proleptic julian. This is neatiy consistent with Brind'Amour's suggestion ${ }^{109}$ that the Polybian reference at $3,100.8$ to produce is apropos autumnal agricultural activities, rather than the sunmer harvest.

The order of dates I have proposed is further supported by two other passages in Polybius. The first concerns the activities of the dictator, Q. Fabius Maximus (Cunctator).

[^103]Granted imperium after the tremendous Roman defeat lake Trasimene, Fabius took to shadowing the Punic enemy at a discrete distance, despite the fact that his tactics of avoiding confrontation made him despised by his own countrymen. He refused to engage Hannibal in battle, and could afford such hanging back, according to Polybius, due to the inexhaustible supply of both men and provisions that was available to him. ${ }^{110}$ The natural inference here is not that harvest was only just begun, but that it was in fact well over. The summ : : :ivest, as mentioned earlier, ${ }^{111}$ generally took place around the time of the summer solstice - late June. If Derow's early date for the battle is to be used, then there would have been more than a month to wait before the grain ripened sufficiently to be hary sted.

The second indication that my proposed calendrical retard is more piausible than any advance is found at Polybius, $3,100.1,{ }^{112}$ only a few sections before the one on which Derow bases his claim. Here it is clearly stated that Hannibal's thoughts were turning to winter quarters. It is almost incredible that anyone could represent him as thus preoccupied in late spring/early summer.

[^104]There are still further indications that the battle at Trasimene occurred in the summer months. These are to be found in the narrative of Livy. According to that historian, Fabius adopted a non-confrontational policy regarding Hannibal, and continuing in this way aestatis reliquum extraxit (played out the rest of summer) until eventually Hamibal, disappointed in his hopes of a pitched battle, hibernis locum circumspectaret (was looking for a site for winter quarters). ${ }^{113}$ Fabius had spent the summer frustrating the Punic invaders, and when Hannibal began casting around for suitable winter quarters, Fabius i. amed him in, so that he was confronted by the unpleasant prospect of spending winter in a hostile and unprovisioned region. ${ }^{114}$ This realization impelled him into action and he broke through the Roman cordon, the overall implication being that the need to locate appropriate winter quarters and sufficient provisions for his army was becoming pressing, not something many months away but required in the fuirly immediate future. The natural inference is that tropical year was well advanced at this time:

It is the view of Derow, incompatible with the above and in conformity with his early date for Trasimene, that when Fabius' tenure of authority was over and he handed his armies over to the consuls, they fought against the Africans for the rest of autumn. Derow's general picture of Fabius' dictatorship involves commencement in mid-May, after Trasimene which he dates, to re-iterate, to the 9th May, 217 BCE. Several comments in the narrative of Livy militate against the possibility of Fabius' appointment having been effected so swiftly. For several days, he writes, the senate stayed in session from sun-up

[^105] the news that the force under C. Centenius had turned aside at Umbria after hearing of the defeat at Trasimene, and had fallen into Hannibal's hands. ${ }^{116}$ Only after this was a dictator created. This was effected by popular election, an unprecedented measure, because of the absence of the surviving consul who was the only one empowered to nominate a dictatcir, and because conditions at the time were against getting either a courier or a letter to him. ${ }^{117}$ For the news of the battle to reach Rome; for the news of the subsequent defeat in Umbria; for consideration of candidates worthy, and capable, of wielding dictatorial power (an important matter considering the nature of the power accorded to the successful candidate); not to mention the election itself, a not inconsiderable amount of time after the disastrous Trasimene defeat would have been required. Though Derow feels able to place the election of Fabius on the 18th May (Kal. Quinct. by his reckoning), it is more than difficult to see the above zvents and processes as having consumed less than two weeks, perhaps even as many as three. Six months of office after Fabius' elevation to the dictatorship would then take us to the end of

[^106]November, and even if the dictator had relinquished his army during the last month of his imperium there would have been precious little of autumn left.

As Fabius' policy of waiting, rather than actively engaging Hannibal in battle, was unpopular with the Romans, it is admittedly conceivable that external pressure from the senate who preferred a more aggressive course of action, and internal pressure from the disgruntled and openly-hostile Master of the Horse and the soldiery combined to force Fabius to end his imperium prematurely. A dictator was only ever in office for a maximum of six months due to fear that the unlimited power that he wielded would corrupt him and cause him to contemplate perpetuation of sole leadership and thus effective assumption of the rôle of Rome's ancient kings. ${ }^{118}$ Six months was not a compulsory term, and many sources simply refer to the dictatorship as not being permitted to exceed this length of time. Although, however, it was not unusual for a dictator to relinquish his imperium before its compulsory termination, dictators were certainly not expected to lay down their office prematurely if the business for which they had been clected had noi been brought to an end. ${ }^{119}$

Yet, although it is just conceivable and possibly not unprecedented for Fabius to have relinquished his dictatorship at some time before the end of his term of office, postulating such a circumstance takes little realistic account of Livy's statement that Fâbius' semestre iniperium was near its conclusion: litteris Q. Fabi accitus et ipse

[^107][Servilius] et collega eius M. Atilius, ut exercitus ab se exacto iam prope semestri imperio acciperent ([Servilius] himself and his colleague Marcus Atilius had been sent for by way of letters from Quintus Fabius so that they could take over the armies of the dictator whose six month imperium was coming to an end). ${ }^{120}$ It might be hypothesized that the use of prope fails to exciude that Fabius was in the last month or so of dicatorial power, but even so, there would have been no autumn remaining had he been elected to the dictatorship in early August, proleptic julian. It is difficult, therefore, to accept Derow's treatment of Fabius' dictatorship as a viable chronological determinant, and Brind'Amour's suggestion that Livy confused the actions of the two pairs of magistrates ${ }^{121}$ can be accepted with a fair degree of confidence. Not only does it allow the dictator to reign on after autumn, it is also eminently compatible with Polybius' clear statement that it was on the election of the consuls for 216 that both the dictator and the Master of the Horse (who wielded power together with Fabius) relinquished their imperium. ${ }^{122}$ Fabius, then, continued as dictator until consular election time but as there are no clear further seasonal indications, in respect of 217 , other than simple references to wintering troops, no other precise calibrations for that year can be forthcoming.

The consuls of C216, according to Polybius, ${ }^{123}$ bringing with them new forces, joined, in due course, the army which had been encamped opposite Hannibal all winter and spring. Sections of Hannibal's army were at this stage becoming openly mutinous for

[^108]want of food, so by means of a ruse, the Punic force left their winter camp for Apulia where, as Livy explains, the harvest was reputedly earlier since the climate was more temperate. ${ }^{124}$ Given the circumstances of the appearance of the newly-incumbent consuls and their army, the Polybian reference to spring, and the Livian reference to the imminent Apulian harvest, not to mention the time wasted by the thwarted ambush of the Roman forces, this move could not have been effected much earlier than the May of the Roman civil calendar. Even allowing for a warmer climate, the harvest in Apulia would not have taken place more than a month earlier than in most other parts of Italy, and as it would have taken at least a week for the Carthaginian army to cover the distance from Gerunium to Cannae, its departure could even be put a little later.

At this point my calendar is only two weeks in retard of the tropical year. Brind'Amour claims that Hannibal left Gerunium "vers la fin de juin". ${ }^{125}$ He takes no account of Livy's mention of an earlier Apulian harvest, and bases his reconstruction on the assumption that ali grain harvests in Italy normally took place in late June, julian. Polybius, significantly, makes no mention of an early Apulian harvest but merely suggests that Hannibal broke camp when the season was advanced enough for harvested grain to be available. ${ }^{126}$ Can Livy's deviant insinuations about a providentially precocious harvest only some 60 miles south of Hannibal's winter quarters be accepted as either veracious or pertinent? Surely not. Hannibal seized Cannae, clearly his target from the start, which was the Roman granary and where, as Polybius says, grain from all the

[^109]country around Canusium was collected. ${ }^{127}$ The date of this action has to be set at some time after the summer solstice, allowing sufficient time for all harvesting to have been done, and for the harvested grain to bave been transported to the granaries in Cannae. Polybius implies that the Romans had completed collection of harvested grain prior to the commencement of piecemeal transport to their camp. It would have been gathered and placed in storage early to mid Quiutilis (mid to late July, julian). Not many more than a few weeks later, the battle of Cannae was fought. As we have seen, ${ }^{128}$ Macrobius tells us that the fateful day was 2 Sextilis, civil. I concur with Brind'Amour in equating this with the 14th of August, julian, with the calendar just two weeks behind the seasons.
Q. Fabius' decree in C215 that all grain be brought to fortified cities before the Kalends of June ${ }^{129}$ is the only available seasonal allusion in respect of this year. Like ihood is that the frumenta of the edict relate to the harvest of 215 BCE ; accordingly, the Kalends of June must have fallen after the sumner solstice. It is necessary to insert an intercalation at the end of consular 216 for this to have been the case. Failure to intercalate in C216 would have the Kalends of June C215 fall in early June julian. Those who ascribe to the belief that the Fabian decree refers to the grain stores of C216 rather than the new harvest of $\mathrm{C} 215^{130}$ fail to take into account the fact that Hannibal lingered in the same district for quite some time. He would certainly have been there over the

[^110]harvest period, if the Kalends of June fell early in the julian year. In that case, Fabius' decree would not have prevented Hannibal from obtaining supplies from the harvest, unless no crops were planted for it, or unless the grain was picked green. The former situation not only requires there to have been prior knowledge of the edict in order for there to have been no sowing the previous autumn, but would also involve severe hardship in the area, of which there is no evidence. At this point then, the calendar was almost one month behind the seasons, with an intercalation at the end of consular 216.

Dealing with early C212, Livy notes that the consuls were detained in Rome until 26 Aprilis, after which they set out for their provinces. ${ }^{131}$ In terms of my calibration, this would have meant that the consuls set out for Samnium after the 14th May, julian, having been detained for just over one month by the Latin festival and other duties. At about this time, the Campanians, suffering from hunger, requested aid from Hannibal who despatched Hanno to Campania. Hanno ordered grain to be collected from those nearby allies who had stored it from last summer, and then transported to Capua. ${ }^{132}$ The consuls, learning of this plan, attacked and defeated the Punic forces under Hanno, and proceeded to destroy the local grain crop which, as Livy tells, was in herbis. ${ }^{133}$ Such a situation could exist until mid-June, julian, about one month after the consuls left Rome for Samnium. It is true that if events are to conform with this time-frame they would have had to have moved quickly, but if Hanno had been despatched shortly after the consuls'

[^111]arrival in Samnium and immediately set about arranging aid for the starving Capuans, by necessity the consuls would also have had to have acted with great speed to prevent him from bringing his plan to fruition. A two-week discrepancy between the seasons and the calendar is not counter-indicated by these events.

In order for the events concerned to have occurred in accordance with my calendrical system, it is necessary for an intercalation month to have been inserted in either consular 215,214 , or 213 . There are no firm indications to point to any of these three years being the correct one, but if we adhere at this point to Macrobius' prescription for biennial intercalations, 22 days would have been intercalated towards the end of C214. Was there then an intercalation in C 212 in accordance with the same pattern? It is my contention that it did, and there was an intercalary block of 23 days at the end of this year. Further considerations to such effect will be given later. As I have already proposed that C216, C214, and C212 were intercalary, is it possible to project backwards and made the same proposal regarding C218, the first year of the period under revi Lw ?

In the view of Brind'Amour, Hannibal's crossing of the Ebro and a revolt of the Cisalpine Gauls occurred almost concurrently. This puts the crossing some time in June, julian, most likely towards the end of the month. Livy tells how it took the African force five months to make the journey, with fifteen days apparently devoted to the Alpine crossing itself. So it was towards the end of C218 that Hannibal reputedly began his ascent, allegedly at the setting of the Pleiades, ${ }^{134}$ just as the weather started to

[^112]deteriorate. Though Brind'Amour believes that it took the Carthaginian invaders fifteen days to traverse the Alps, ${ }^{135}$ he begins the count at the actual morning setting of the Pleiades around the 7-9th November, and as a consequence has Hannibal arriving in Italy at the end of that month. Walbank claims that the setting of the constellation heralded the approach of winter, ${ }^{136}$ implying that it was simply a recurrent celestial event exploited by farmers and so forth to provide a rough guide to seasonal change than an official astronomically recognisable date. He goes on to say that "the fact that new snow had just fallen suggests that Hannibal was on the summit about the third week in September, "137 but this cannot be the case withou: the calendar being two months in retard of the seasons, a condition which later circumstances prove highly improbable.

According to the Livian account of the Alpine crossing, which may owe much to Fabius Pictor, after nine days Hannibal and his troops were on the summit where they rested for two days. When they began the downward journey, they moved slowly (segniter), and they were dejected and despairing. The descent proved much more difficult than the ascent, ${ }^{138}$ and the overall impression left by the tale of their hardships is that

[^113]quite a number of days were spent toiling along the treacherous and frozen mountain even before the four days spent at the cliff where they constructed a road, and the three days taken to complete the final stage of the descent. ${ }^{139}$ I would estimate the actual crossing of the Alps as taking at least three weeks to accomplish, resulting in Hannibal's arrival in Italy early in December, proleptic julian (late November, civil).

The Alps crossed, Hannibal defeated the Roman forces near lake Ticinus. ${ }^{140}$ Another victorious battle for the Carthaginians followed shortly afterwards, this time at the Trebia. ${ }^{141}$ Polybius tells us that the latter encounter took place around the $\chi \in \rho \epsilon \in \rho \nu \alpha i$ t $\rho o \pi \alpha i$, and Livy concurs, noting that this was the time of year when the days were shortest. We are thus provided with a relatively solid seasonal allusion.

But was there an intercalation in C218? Certainly the circumstances of none of the events described is dependent on there having been an intercalation. Brind'Amour, perhaps accordingly, does not insert one and the eclipse of February 11th, 217 BCE in his table of equivalences still falls, as it falls for me, prior to the entrance of the new consuls into office. Yet, stubbornly perhaps, I find it difficult to resist adding a further biennial intercalation to the sequence $212,214,216$ and so am driven to diagnose C218 as also intercalary.

If there were indeed intercalations in $\mathrm{C} 216, \mathrm{C} 214$, and C 212 , we would be confronted with an apparently systematic pattern of, from a proleptic julian perspective, 'even year' intercalations. The long term existence of such a pattern is further supported

[^114]by indications that C236 and still further back C260 were intercalary years. ${ }^{142}$ The patern is of the kind to which Macrobius makes reference in his dissertation on intercalation. Minimal departures, scheduled or ad hoc, will have been dictated by the otherwise inevitable forward creep of the civil calendar ahead of the tropical year noted on p. 69 above. If biennial 'even year' intercalations was the rule by C 218 , intercalation that year would have been automatic, despite the pontifices in charge of the calendar having observed from the winter solstice that the calendar was in relative accord with the seasons. It is just conceivable that, noting fairly close concurrence, they could have decided to forego an intercalation, yet, if tradition were not a strong enough deterrent to routine, military matters could have been. It would certainly have been to Roman advantage for a system of regular inter 'ation to have continued this year.

The two consuls and their forces were facing the Carthaginian invaders, and it was felt that the safety of Rome was dependent on their success. ${ }^{143}$ After the first brief encounter at the Trebia, the Romans were counted victorious in a manner of speaking because they had suffered fewer casualties. The consul Ti. Sempronius was eager to effect another engagement. His impatience, so Livy claims, ${ }^{144}$ was increased by the imminence of the elections and the fear that the conclusion of this war would be the achievement of the new consuls with the resulant glory theirs rather than his own. Awareness of

[^115][^116]Sempronius' disposition may have provided pontifices factionally sympathetic towards him with a further reason than biennial routine to go ahead with intercalation. Alternatively, an entirely unbiased assessment of military exigencies may have ruled out pontifical consideration of departure from intercalary norm. There may have been many at Rome who considered it sensible and rational to allow the outgoing consuls the maximum possible time for implementing their plans for instant rout of the Punic invaders than to compel one of them to return to Rome prematurely for the holding of consular and other elections. If Hannibal could be defeated without the confusion bound to arise from the transference of armies to new consuls, such potential chaos was best avoided.

As a result of intercalation in C218, upon which, I would insist, the Ides of March of C217 fell on 8th April, 217 BCE proleptic julian. As already insinuated, regular biennial intercalation continued until at least C212. Some time after that consular year, the system of biennial 'even year' intercalations broke down.

Given all indications for C218-C204, the best fit solution, on the basis of Occam's razor, the principle of opting for the least complexification, would be to insert a further intercalation in the next 'even year' in the series after C212, that is in C210, and to go on to suppose that there was a lapse of regular intercalation until C193, two years before the lex Acilia of 191 BCE. My table of julian equivalence for C218-C204 is based on such being the case.

Yet what evidence do we have for the period after C210 that points in the direction of my system of equivalence as opposed to the others that have been proposed? Unfortunately, Brind'Amour's reconstruction ceases at the end of 212 BCE and resumes only at the beginning of 202 BCE , and so no comparison can be drawn there. Derow does
continue on through this period, within which, for him, only C207 provides any usable seasonal and military allusions.

C207 brought further fear to the Romans as Hasdrubal left Spain and moved to join his brother in Italy. Derow claims that Hasdrubal crossed the Alps "quite early in the year". ${ }^{145}$ The question is, what does Derow mean by year in this context? As already mentioned, Derow's Ides of March, the beginning of the consular year, coincides with 13th February, proleptic julian, whereas mine corresponds to 27th March, 207 on the same system. It is possible, however, that Derow is referring to the January beginning of the Roman civil/religious year, which he calibrates with 2nd December, 208 proleptic julian, as opposed to my 15th January, 207. Either way, if Hasdrubal had left his winter quarters as early as Derow has proposed, then the passes through the Alps would have been so blocked with snow as to be untraversable, and therefore it is not possible that he crossed "quite early in the year", whether consular, Roman civil/religious, or tropical. Also, according to Livy's account, the letter bearing the report from the praetor, L. Porcius, concerning Hasdrubal's movements, arrived at Rome not merely after the Ides of March when the consuls entered office, but also after two novendiales, ${ }^{146}$ atonement for the accepted prodigies, ${ }^{147}$ removal of an hermaphrodite, ${ }^{148}$ and a procession and sacrifice to Juno. ${ }^{149}$ At the time the letter arrived, the levy was being conducted, with the exemptions claimed by the seaboard colonies examined. This involved each state

[^117]concerned being ordered to appear before the senate with its case. ${ }^{150}$ On receipt of the letter, the levy was hastened and the consuls departed for their provinces earlier than planned. ${ }^{151}$

The length of time taken for the letter to reach Rome from Gaul can, of course, only be roughly estimated, but in Imperial times it was possible for written communications to be relayed as fast as $150-200 \mathrm{~km}$ per day. ${ }^{152}$ If the bearers of $L$. Porcius' letter had been urged and were able to achieve close to the maximum speed which is likely to have been the case given that the information it contained was highly important, then it may be estimated that between despatch and receipt there was a separation at the most of little more than a week. Moreover, the letter received stated that Hasdrubal was crossing the Alps, not that he had crossed. ${ }^{153}$ The passage took him only two months as opposed to Hannibal's five, but was the letter despatched at the beginning or middle of this period? If it can be accepted that Hasdrubal crossed the Alps in late April, tropical and proleptic julian, allowing about one month for the abortive siege of Placentia, his horsemen would have been captured by the Romans in June, and the battle at the Metaurus would have been fought in early July, only a little more than one week later than the civil date provided by Ovid, indicating that at this point the calendar was only slightly in retard of the tropical year. In my table of equivalences such is the case.

[^118]Livy states that in 206, the consuls set out for their provinces principio veris. ${ }^{154}$ There is no other seasonal allusions anywhere in respect of this year and the 'beginning of spring' is vague. Although my calendar at this point is still slightly in retard of the seasons, unlike those of Derow and Brind'Amour (by extension), I see no reason for disquiet. Livy could have been using early spring to connote late March, or early April, or simply the period of time immediately following the induction of the new consuls.

Only one other, rather major, problem remains to be addressed: why after C210 did the Romans cease regular intercalation and allow an enormous discrepancy to build up between the civil and seasonal years? I propose that the system of bienniai intercalation came to be dropped for reasons bound up with the efficient discharge of public business of Rome.

A good ad hoc reason for the failure to intercalate in C208 when the next biennial intercalation was due is clearly evident from the narrative of Livy, It was in this year that the two consuls were killed, one directly in battle, the other dying later of his wounds. A dictator was appointed by the latter before his demise to hold elections and games. ${ }^{155}$ Livy ${ }^{156}$ relates: ceterum cum duo consulares exercitus tam prope hostem sine ducibus essent, omnibus aliis omissis una praecipua cura patres populumque incessit consules primo quoque tempore creandi (but inasmuch as two consular armies were so near the enemy without their commanders, the Senate and the people, neglecting everything else, were possessed by one particular concern - to elect consuls at the first possible moment). Here was reason enough for regular intercalation to have been suspended once. The

[^119]sources suggest no obvious reason for non-intercalation to have persisted and in default of helpful indication one is thrown back upon conjecture. The counsel of despair is to envisage the pontifices simply not bothering to resume the system of intercalation until a sizeable gap appeared which cried out for correction. A more positive explanation would be that in or after 208, the political and religious establishment become attracted by the idea of increasing the interval between the commencement of the consular year and that of the campaigning season. The effect of such increase would be to provide the consuls in particular with a greater amount of time for discharging public business before departing from Rome. One way of gaining the desired effect would have been to shift the consular year's beginning from the Ides of March to the Kalends of January, a solution actually adopted in 153 , some time after the civil calendar had been brought back in line with the seasons. The alternative was to abandon intercalation until the gap between the Ides of March and the campaigning season's beginning had reached the required extent. It was the latter expedient that was adopted. For whatever reason (one suspects that the cut and thrust of political point scoring may have been a major factor), reimplementation of intercalation after the suspension proved difficult to effect. What started out as a device calculated to create more time for public business early in the consular year turned into a veritable Frankenstein's monster that eventually brought the civil calendar into grotesque rather than functionally tolerable discalibration with the seasons. It was not until C191 that the first serious steps were taken towards reversing a process that had got out of hand. By the end of the 170s, a further administrative crisis, this time bound up with the return to Rome for the holding of elections of consuls engaged in campaign on remote theatres of war, dictated more drastic corrective measures.

To summarize, had there been no intercalation at all from the commencement of the Second Punic War until C203, the discrepancy between the calendar year and the tropical year would have been much greater, as I have pointed out at the beginning of this section. Therefore, there cannot but have been some intercalations in this period. But for how long were intercalary blocks regularly inserted, and were the insertions regular and systematic? One possibility is that intercalation was regular and biennial at one stage, conforming with Macrobius' prescription. The other is that intercalations were resorted to at arbitrary intervals. In my judgement the picture clearly most compatible with all of the admittedly jejune and unsatisfactory evidence is that intercalation was systematic at the beginning of the Second Punic War with C218, C216, C214, C212, and C210 all including intercalary months. After C210, intercalation was abandoned until C193, and in C191, with the discalibration now dauntingly massive, the lex Acilia was devised and passed in order to reinstate definitively the intercalary process. It ought to follow that there were regular biennial style intercalations prior to C218. This is difficult to demonstrate given a virtual evidential vacuum, but there is, at least, indication to the effect that C236 was intercalary, and, somewhat further back, C260.

Calibration Tables

## A. Range

The tables that follow have been extended beyond the period C218-C167 that is the subject matter of the by and large complete books 21-45 of Livy's history. In the first place it was natural to provide proleptic julian equivalences for consular $166,165,164$, and 163 , the post-C167 components of a prolonged series of successive extraordinary intercalations which, it was proposed in section 2A above, commenced in C170 after a 'nurmal' biennial intercalation in C171. In the second, on the predication that biennial intercalation became the rule again after C 163 , I have ventured to add equivalences from C162 to C154, the final year on which the consuls entered office on the Ides of March. Assignment of 22 and 23 days insertions to years after C166, in which 23 days were intercalated, is controlled by the assumption that strict alternation between the two lengths was maintained. Hence 22 days were intercalated in C165, 23 in C164, 22 in C163, 23 in C161 and so on.

## B. Structure

To maximize user-friendliness, proleptic julian equivalents for each and every day of each consular year have been tabulated.

The table for each year is preceded by a $C$ to indicate that it is the consular year (15th March year $x$ to 14th March year $x+1$ ), and the consuls are named to facilitate identification. The Roman numerals in the column on the left refer to the Roman days. The months along the top are the pre-julian Roman months. The proleptic julian year equivalents are in the row beneath the months and care must be taken when using the tables as the julian year is specified inside it only when the year changes. The number of days intercalated is stated on the top right, following the consuls' names. Where the intercalation is extrapolated, the number of days and the month in the chart appear in italics; when the intercalation is attested in the ancient sources, both appear in normal font.

## C. Astronomical Data

The tables incorporate indication of vernal and autumnal (fall) equinoxes, the summer and winter solstices, new and full moons, and solar and lunar eclipses visible either in totality or partiality at Rome and in Roman spheres of interest elsewhere in the Mediterranean world.

Belnw is a key to the symbols and abbreviations employed:

| Symbol | Meaning |
| :---: | :---: |
| $\bullet$ | New moon |
| 0 | Full moon |
| SE | Solar Eclipse |
| LE | Lunar Eclipse |
| VE | Vernal Equinox |
| SS | Summer Solstice |
| AE | Autumn Equinox |
| WS | Winter Solstice |

Towards compilation of all astronomical data use has been two computer programmes published by the Zephyr corporation. These are Lodestar plus II and Calmaster 2000.

C218 Consuls: P. Cornelius Scipio, Ti. Sempronius Longus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 218 | 218 | 218 | 218 | 218 | 218 | 218 |
| I |  | 14/4 | 13/5 | 13/6 | 12/7 | 12/8 | 10/9 |
| II |  | 15 | 14 | 14 | 13 | 13 | 11 |
| III |  | 16 | 15 | 15 | 14 | 14 | 12 |
| IV |  | 17 | 16 | 16 | 15 | 15 | 13 |
| V |  | 18 | 17 | 17 | 16 | 16 | 14 |
| VI |  | 19 | 18 | 18 | 17 | 17 | 15 |
| VII |  | 20 | 19 | 19 | 18 | 18 - | 16 |
| VIII |  | 21 | 20 | 20 - | 19 | 19 | 17. |
| IX |  | 22 - | 21 - | 21 | 20 - | 20 | 18 |
| X |  | 23 | 22 | 22 | 21 | 21 | 19 |
| XI |  | 24 | 23 | 23 | 22 | 22 | 20 |
| XII |  | 25 | 24 | 24 | 23 | 23 | 21 |
| XIII |  | 26 | 25 | 25 | 24 | 24 | 22 |
| XIV |  | 27 | 26 | 26 | 25 | 25 | 23 |
| XV | 28/3 | 28 | 27 | SS 27 | 26 | 26 | 24 |
| XVI | 29 | 29 | 28 | 28 | 27 | 27 | 25 |
| XVII | 30 | 30 | 29 | 29 | 28 | 28 | 26 |
| XVIII | 31 | 1/5 | 30 | 30 | 29 | 29 | AE 27 |
| XIX | 1/4 | 2 | 31 | 1/7 | 30 | 30 | 28 |
| XX | 2 | 3 | 1/6 | 2 | 31 | 31 | 29 |
| XXI | 3 | 4 | 2 | 3 | 1/8 | $1 / 9 \quad 0$ | 30 |
| XXII | 4 | 5 | 3 | 40 | 2 | 2 | 1/10 0 |
| XXIII | 5 | 6 | 4 | 5 | $3 \bigcirc$ | 3 | 2 |
| XXIV | 6 | 7 - | $5 \circ$ | 6 | 4 | 4 | 3 |
| XXV | 7 | 8 | 6 | 7 | 5 | 5 | 4 |
| XXVI | 80 | 9 | 7 | 8 | 6 | 6 | 5 |
| XXVII | 9 | 10 | 8 | 9 | 7 | 7 | 6 |
| XXVIII | 10 | 11 | 9 | 10 | 8 | 8 | 7 |
| XXIX | 11 | 12 | 10 | 11 | 9 | 9 | 8 |
| XXX | 12 |  | 11 |  | 10 |  |  |
| XXXI | 13 |  | 12 |  | 11 |  |  |

C218 Consuls: P. Cornelius Scipio, Ti. Sempronius Longus

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 218 | 218 | 218/7 | 217 | 217 | 217 | 217 |
| 1 | 9/10 | 9/11 | 8/12 | $6 / 1$ | 4/2 | 27/2 | 25/3 |
| II | 10 | 10 | 9 | 7 | 5 | 28 | 26 |
| III | 11 | 11 | 10 | 8 | 6 | 29 | 27 - |
| IV | 12 | 12 | 11 | 9 | 7 | 1/3 | 28 |
| V | 13 | 13 | 12 | 10 | 8 | 2 | 29 |
| VI | 14 | 14 | 13 | 11 - | 9 | 3 | 30 |
| VII | 15 | 15 - | 14 - | 12 | 10 | 4 | 31 |
| VIII | 16 • | 16 | 15 | 13 | SE $11 \quad \bullet$ | 5 | 1/4 |
| IX | 17 | 17 | 16 | 14 | 12 | 6 | 2 |
| X | 18 | 18 | 17 | 15 | 13 | 7 | 3 |
| XI | 19 | 19 | 18 | 16 | 14 | 8 | 4 |
| XII | 20 | 20 | 19 | 17 | 15 | 9 | 5 |
| XIII | 21 | 21 | 20 | 18 | 16 | 10 | 6 |
| XIV | 22 | 22 | 21 | 19 | 17 | 11 - | 7 |
| XV | 23 | 23 | 22 | 20 | 18 | 12 |  |
| XVI | 24 | 24 | 23 | 21 | 19 | 13 |  |
| XVII | 25 | 25 | 24 | 22 | 20 | 14 |  |
| XVIII | 26 | 26 | ws 25 | 23 | 21 | 15 |  |
| XIX | 27 | 27 | 26 | 24 | 22 | 16 |  |
| XX | 28 | 28 | 27 | 25 | 23 | 17 |  |
| XXI | 29 | 290 | 28 | 26 | 24 | 18 |  |
| XXII | 30 ○ | 30 | 290 | 27 | 25 | 19 |  |
| XXIII | 31 | 1/12 | 30 | $28 \quad 0$ | $26 \quad 0$ | 20 |  |
| XXIV | 1/11 | 2 | 31 | 29 |  | 21 |  |
| XXV | 2 | 3 | 1/I/2I7 | 30 |  | 22 |  |
| XXVI | 3 | 4 | 2 | 31 |  | 23 |  |
| XXVII | 4 | 5 | 3 | 1/2 |  | VE 24 |  |
| XXVIII | 5 | 6 | 4 | 2 |  |  |  |
| XXIX | 6 | 7 | 5 | 3 |  |  |  |
| XXX | 7 |  |  |  |  |  |  |
| XXXI | 8 |  |  |  |  |  |  |

C217 Consuls: Cn. Servilius Geminus, C. Flaminius

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 217 | 217 | 217 | 217 | 217 | 217 |
| I |  | 25/4 0 | 24/5 | 24/6 | 23/7 | 23/8 |
| II |  | 26 | 250 | SS 25 | 24 | 24 |
| III |  | 27 | 26 | 26 | 25 | 25 |
| IV |  | 28 | 27 | 27 | 26 | 26 |
| V |  | 29 | 28 | 28 | 27 | 27 |
| VI |  | 30 | 29 | 29 | 28 | 28 |
| VII |  | 1/5 | 30 | 30 | 29 | 29 |
| VIII |  | 2 | 31 | 1/7 | 30 | 30 |
| IX |  | 3 | 1/6 | 2 | .31 | 31 |
| X |  | 4 | 2 | 3 | 1/8 | 1/9 |
| XI |  | 5 | 3 | 4 | 2 | 2 |
| XII |  | 6 | 4 | 5 | 3 | 3 |
| XIII |  | 7 | 5 | 6 | 4 | 4 |
| XIV |  | 8 | 6 | 7 | 5 | 5 |
| XV | $8 / 4$ | 9 - | 7 | 8 | 6 | 6 |
| XVI | 9 | 10 | 8 - | 9 | 7 | 7 |
| XVII | 10 | 11 | 9 | 10 | 8 | 8 |
| XVIII | 11 | 12 | 10 | 11 | 9 | 9 |
| XIX | 12 | 13 | 11 | 12 | 10 | 10 |
| XX | 13 | 14 | 12 | 13 | 11 | 11 |
| XXI | 14 | 15 | 13 | 14 | 12 | 12 |
| XXII | 15 | 16 | 14 | 15 | 13 | 13 |
| XXIII | 16 | 17 | 15 | 16 | 14 | 14 |
| XXIV | 17 | 18 | 16 | 17 | 15 | 15 |
| XXV | 18 | 19 | 17 | 18 | 16 | 16 |
| XXVI | 19 | 20 | 18 | 19 | 17 | 17 |
| XXVII | 20 | 21 | 19 | 20 | 18 | 18 |
| XXVIII | 21 | 22 | 20 | 21 | 19 | 19 |
| XXIX | 22 | 23 | 21 | 22 | 20 | 20 |
| XXX | 23 |  | 22 |  | 21 | \% |
| XXXI | 24 |  | $23 \quad 0$ |  | - 22 |  |

C217 Consuls: Cn. Servilius Geminus, C. Flaminius

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 217 | 217 | 217 | 217/6 | 216 | 216 | 216 |
| I | 21/9 | 20/10 | 20/11 | 19/12 | 17/1 | 15/2 0 | 15/3 |
| II | 22 | 21 | 21 | 20 | 18 | 16 | 16 |
| III | 23 | 22 | 22 | 21 | 19 | 17 | 17 |
| IV | 24 | 23 | 23 | 22 | 20 | 18 | 18 |
| V | 25 | 24 | 24 | 23 | 21 | 19 | 19 |
| V1 | 26 | 25 | 25 | WS 24 | 22 | 20 | 20 |
| VII | 27 | 26 | 26 | 25 | 23 | 21 | 21 |
| VIII | 28 | 27 | 27 | 26 | 24 | 22 | 22 |
| IX | 29 | 28 | 28 | 27 | 25 | 23 | 23 |
| X | 30 | 29 | 29 | 28 | 26 | 24 | 24 |
| XI | 1/10 | 30 | 30 | 29 | 27 | 25 | 25 |
| XII | 2 | 31 | 1/12 | 30 | 28 | 26 | 26 |
| XIII | 3 | 1/11 | 2 | 31 | 29 | 27 | 27 |
| XIV | 4 | 2 | 3 • | 1/1/2160 | 30 | 28 | 28 |
| XV | 5 - | 3 • | 4 | 2 | 31 | 1/3 |  |
| XVI | 6 | 4 | 5 | 3 | 1/2 | 2 |  |
| XVII | 7 | 5 | 6 | 4 | 2 | 3 |  |
| XVIII | 8 | 6 | 7 | 5 | 3 | 4 |  |
| XIX | 9 | 7 | 8 | 6 | 4 | 5 |  |
| XX | 10 | 8 | 9 | 7 | 5 | 6 |  |
| XXI | 11 | 9 | 10 | 8 | 6 | 7 |  |
| XXII | 12 | 10 | 11 | 9 | 7 | 8 |  |
| XXIII | 13 | 11 | 12 | 10 | 8 | 9 |  |
| XXIV | 14 | 12 | 13 | 11 | 9 | 10 |  |
| XXV | 15 | 13 | 14 | 12 | 10 | 11 |  |
| XXVI | 16 | 14 | 15 | 13 | 11 | 12 |  |
| XXVII | 17 | 15 | 16 | 14 | 12 | 13 |  |
| XXVIII | 18 | 16 | 170 | 15 | 13 | 14 |  |
| XXIX | $19 \bigcirc$ | 17 O | 18 | $16 \quad 0$ | 14 |  |  |
| XXX |  | 18 |  | $\cdots$ |  |  |  |
| XXXI |  | 19 |  |  |  |  |  |

C216 Consuls: C. Terentius Varro, L. Aemilius Paullus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 216 | 216 | 216 | 216 | 216 | 216 | 216 |
| I |  | 15/40 | 14/5 0 | 14/6 | 13/7 | 13/8 | 11/9 |
| II |  | 16 | 15 | 15 | 14 | 14 | 12 |
| III |  | 17 | 16 | 16 | 15 | 15 | 13 |
| IV |  | 18 | 17 | 17 | 16 | 16 | . 14 |
| V |  | 19 | 18 | 18 | 17 | 17 | 15 |
| VI |  | 20 | 19 | 19 | 18 | 18 | 16 |
| VII |  | 21 | 20 | 20 | 19 | 19 | 17 |
| VIII |  | 22 | 21 | 21 | 20 | 20 | 18 |
| IX |  | 23 | 22 | 22 | 21 | 21 | 19 |
| X |  | 24 | 23 | 23 | 22 | 22 | 20 |
| XI |  | 25 | 24 | 24 | 23 | 23 | 21 |
| XII |  | 26 | 25 | 25 | 24 | 24 | 22 |
| XIII |  | 27 | 26 | Ss 26 | 25 | 25 • | 23 |
| XIV |  | 28 | 27 | 27 - | 26 - | 26 | 24 - |
| XV | 29/3 | 29 | 28 - | 28 | 27 | 27 | 25 |
| XVI | 30 - | 30 | 29 | 29 | 28 | 28 | AE 26 |
| XVII | 31 | 1/5 | 30 | 30 | 29 | 29 | 27 |
| XVIII | 1/4 | 2 | 31 | 1/7 | 30 | 30 | 28 |
| XIX | 2 | 3 | 1/6 | 2 | 31 | 31 | 29 |
| XX | 3 | 4 | 2 | 3 | 1/8 | 1/9 | 30 |
| XXI | 4 | 5 | 3 | 4 | 2 | 2 | 1/10 |
| XXII | 5 | 6 | 4 | 5 | 3 | 3 | 2 |
| XXIII | 6 | 7 | 5 | 6 | 4 | 4 | 3 |
| XXIV | 7 | 8 | 6 | 7 | 5 | 5 | 4 |
| XXV | 8 | 9 | 7 | 8 | 6 | 6 | 5 |
| XXVI | 9 | 10 | 8 | 9 | 7 | 7 | 6 |
| XXVII | 10 | 11 | 9 | 10 | 8 | 8 | 7 |
| XXVIII | 11 | 12 | 10 | 11 | 9 | $9 \bigcirc$ | 8 ○ |
| XXIX | 12 | 13 | 11 | 120 | $10 \bigcirc$ | 10 | 9 |
| XXX | 13 |  | 12 |  | 11 |  |  |
| XXXI | 14 |  | 130 | \% | 12 |  |  |

C216 Consuls: C. Terentius Varro, L. Aemilius Paullus
(intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 216 | 216 | 216/5 | 215 | 215 | 215 | 215 |
| I | 10/10 | 10/11 | 9/12 | $7 / 1$ | 5/2 | 1/3 | 28/3 |
| II | 11 | 11 | 10 | 8 | 6 | 2 | 29 |
| III | 12 | 12 | 11 | 9 | 7 | 3 | 30 |
| IV | 13 | 13 | 12 | 10 | 8 | 4 | 31 |
| V | 14 | 14 | 13 | 11 | 9 | 50 | 1/4 |
| VI | 15 | 15 | 14 | 12 | 10 | 6 | 2 |
| VII | 16 | 16 | 15 | 13 | 11 | 7 | 3 |
| VIII | 17 | 17 | 16 | 14 | 12 | 8 | 40 |
| IX | 18 | 18 | 17 | 15 | 13 | 9 | 5 |
| X | 19 | 19 | 18 | 16 | 14 | 10 | 6 |
| XI | 20 | 20 | 19 | 17 | 15 | 11 | 7 |
| XII | 21 | 21 | 20 | 18 | 16 | 12 | 8 |
| XIII | 22 | 22 - | 21 | 19 | 17 | 13 | 9 |
| XIV | $23 \cdot$ | 23 | 22 。 | $20 \quad \bullet$ | 18 | 14 | 10 |
| XV | 24 | 24 | 23 | 21 | 19 - | 15 |  |
| XVI | 25 | 25 | ws 24 | 22 | 20 | 16 |  |
| XVII | 26 | 26 | 25 | 23 | 21 | 17 |  |
| XVIII | 27 | 27 | 26 | 24 | 22 | 18 |  |
| XIX | 28 | 28 | 27 | 25 | 23 | 19 |  |
| XX | 29 | 29 | 28 | 26 | 24 | 20 - |  |
| XXI | 30 | 30 | 29 | 27 | 25 | 21 |  |
| XXII | 31 | 1/12 | 30 | 28 | 26 | 22 |  |
| XXIII | 1/11 | 2 | 31 | 29 | 27 | 23 |  |
| XXIV | 2 | 3 | 1/1/215 | 30 | 28 | VE 24 |  |
| XXV | 3 | 4 | 2 | 31 |  | 25 |  |
| XXVI | 4 | 5 | 3 | 1/2 |  | 26 |  |
| XXVII | 5 | 60 | 4 | 2 |  | 27 |  |
| XXVIII | 6 | 7 | 50 | 3 | $\%$ |  |  |
| XXIX | $7 \quad 0$ | 8 | 6 | $4 \quad 0$ |  |  |  |
| XXX | 8 |  |  |  | \%, | $\checkmark$ |  |
| XXXI | 9 | $\bigcirc$ | \% | , | . |  |  |

C215 Consuls: L. Postumius Albinus, Ti. Sempronius Gracchus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 215 | 215 | 215 | 215 | 215 | 215 |
| I |  | $28 / 4$ | $27 / 5$ | 27/6 | 26/7 | 26/8 |
| II |  | 29 | 28 | 28 | 27 | 27 |
| III |  | 30 | 29 | 29 | 28 | 28 |
| IV |  | 1/5 | 30 | 30 | 29 | 29 |
| V |  | 2 | 31 | 1/7 | 30 | 30 |
| VI |  | 3 | 1/6 | 20 | $31 \quad 0$ | 31 |
| VII |  | 40 | 20 | 3 | 1/8 | 1/9 |
| VIII |  | 5 | 3 | 4 | 2 | 2. |
| IX |  | 6 | 4 | 5 | 3 | 3 |
| X |  | 7 | 5 | 6. | 4 | 4 |
| XI |  | 8 | 6 | 7 | 5 | 5 |
| XII |  | 9 | 7 | 8 | 6 | 6 |
| XIII |  | 10 | 8 | 9 | 7 | 7 |
| XIV |  | 11 | 9 | 10 | 8 | 8 |
| XV | 11/4 | 12 | 10 | 11 | 9 | 9 |
| XVI | 12 | 13 | 11 | 12 | 10 | 10 |
| XVII | 13 | 14 | 12 | 13 | 11 | 11 |
| XVIII | 14 | 15 | 13 | 14 | 12 | 12 |
| XIX | 15 | 16 | 14 | 15 | 13 | 13 |
| XX | 16 | 17 | 15 | $16 \cdot$ | 14 - | 14 |
| XXI | 17 | 18 - | 16 - | 17 | 15 | 15 |
| XXII | 18 | 19 | 17 | 18 | 16 | 16 |
| XXIII | 19 | 20 | - 18 | 19 | 17 | 17 |
| XXIV | 20 | 21 | 19 | 20 | 18 | 18 |
| XXV | 21 | 22 | 20 | 21 | 19 | 19 |
| XXVI | 22 | 23 | 21 | 22 | 20 | 20 |
| XXVII | 23 | 24 | 22 | 23 | 21 | 21 |
| XXVIII | 24 | 25 | 23 | 24 | 22 | 22 |
| XXIX | 25 | 26 | 24 | 25 | 23 | 23 |
| XXX | 26 |  | 25 |  | 24 |  |
| XXXI | 27 |  | SS 26 |  | 25 |  |

C215 Consuls: L. Postumius Albinus, Ti. Sempronius Gracchus

|  | SEP | OCT | NOV | DEC | JAN | FE13 | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 215 | 215 | 215 | 215/4 | 214 | 214 | 214 |
| I | 24/9 | 23/10 | 23/11 | 22/12 | 20/1 | 18/2 | 18/3 |
| II | 25 | 24 | 24 | 23 | 21 | 19 | 19 |
| III | 26 | 25 | 25 | ws 24 | 22 | 20 | 20 |
| IV | AE 27 | 26 | 260 | 25 - | 23 | 21 | 21 |
| V | 28 ○ | 270 | 27 | 26 | 24 - | 220 | 22 |
| VI | 29 | 28 | 28 | 27 | 25 | 23 | 23 |
| VII | 30 | 29 | 29 | 28 | 26 | 24 | 24 |
| VIII | 1/10 | 30 | 30 | 29 | 27 | 25 | VE 25 |
| IX | 2 | 31 | 1/12 | 30 | 28 | 26 | 26 |
| X | 3 | 1/11 | 2 | 31 | $29^{\circ}$ | 27 | 27 |
| XI | 4 | 2 | 3 | I/I/214 | 30 | 28 | 28 |
| XII | 5 | 3 | 4 | 2 | 31 | 1/3 | 29 |
| XIII | 6 | 4 | 5 | 3 | 1/2 | 2 | 30 |
| XIV | 7 | 5 | 6 | 4 | 2 | 3 | 31 |
| XV | 8 | 6 | 7 | 5 | 3 | 4 |  |
| XVI | 9 | 7 | 8 | 6 | 4 | 5 |  |
| XVII | 10 | 8 | 9 | 7 | 5 | 6 |  |
| XVIII | 11 | 9 | 10 | 8 | 6 | 7 |  |
| XIX | 12 - | 10 | 11 - | 9 | 7 | 8 |  |
| XX | 13 | 11 • | 12 | 10 - | 8 - | 9 |  |
| XXI | 14 | 12 | 13 | 11 | 9 | 10 |  |
| XXII | 15 | 13 | 14 | 12 | 10 | 11 |  |
| XXIII | 16 | 14 | 15 | 13 | 11 | 12 |  |
| XXIV | 17 | 15 | 16 | 14 | 12 | 13 |  |
| XXV | 18 | 16 | 17 | 15 | 13 | 14 |  |
| XXVI | 19 | 17 | 18 | 16 | 14 | 15 |  |
| XXVII | 20 | 18 | 19 | 17 | 15 | 16 |  |
| XXVIII | 21 | 19 | 20 | 18 | 16 | 17 |  |
| XXIX | 22 | 20 | 21 | 19 | 17 |  |  |
| XXX |  | 21 |  |  |  | \% |  |
| XXXI |  | 22 |  |  |  |  |  |

C214 Consuls: Q. Fabius Maximus, M. Claudius Marcellus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 214 | 214 | 214 | 214 | 214 | 214 | 214 |
| I |  | 18/4 | $17 / 5$ | 17/6 | 16/7 | 16/8 | 14/9 |
| II |  | 19 | 18 | 18 | 17 | 17 | 15 |
| III |  | 20 | 19 | 19 | 18 | 18 | 16 |
| IV |  | 21 | 20 | 20 | 19 | 19 - | 17 |
| V |  | 22 | 21 | 21 - | $20 \quad 0$ | 20 | 18 |
| VI |  | 230 | 22 - | 22 | 21 | 21 | 19 |
| VII |  | 24 | 23 | 23 | 22 | 22 | 20 |
| VIII |  | 25 | 24 | 24 | 23 | 23 | 21 |
| IX |  | 26 | 25 | 25 | 24 | 24 | 22 |
| X |  | 27 | 26 | 26 | $25^{\circ}$ | 25 | 23 |
| XI |  | 28 | 27 | ss 27 | 26 | 26 | 24 |
| XII |  | 29 | 28 | 28 | 27 | 27 | 25 |
| XIII |  | 30 | 29 | 29 | 28 | 28 | 26 |
| XIV |  | 1/5 | 30 | 30 | 29 | 29 | AE 27 |
| XV | 1/4 | 2 | 31 | 1/7 | 30 | 30 | 28 |
| XVI | 2 | 3 | $1 / 6$ | 2 | 31 | 31 | 29 |
| XVII | 3 | 4 | 2 | 3 | $1 / 8$ | 1/9 | 30 |
| XVIII | 4 | 5 | 3 | 4 | 2 | 2 - | 1/10 |
| XIX | 5 | 6 | 4 | 5 - | 3 - | 3 | 2 |
| XX | 6 | 7 - | 5 | 6 | 4 | 4 | 3 |
| XXI | 7 | 8 | 6 • | 7 | 5 | 5 | 4 |
| XXII | 8 • | 9 | 7 | 8 | 6 | 6 | 5 |
| XXIII | 9 | 10 | 8 | - 9 | 7 | 7 | 6 |
| XXIV | 10 | 11 | 9 | 10 | 8 | 8 | 7 |
| XXV | 11 | 12 | 10 | 11 | 9 | 9 | 8 |
| XXVI | 12 | 13 | 11 | 12 | 10 | 10 | 9 |
| XXVII | 13 | 14 | 12 | 13 | 11 | 11 | 10 |
| XXVIII | 14 | 15 | 13 | 14 | 12 | 12 | 11 |
| XXIX | 15 | 16 | 14 | 15 | 13 | 13 | 12 |
| XXX | 16 |  | 15 |  | 14 |  |  |
| XXXI | 17 |  | 16 |  | 15 |  |  |

C214 Consuls: Q. Fabius Maximus, M. Claudius Marcellus
(intercal. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 214 | 214 | 214/3 | 213 | 213 | 213 | 213 |
| I | 13/10 | 13/11 | 12/12 | 10/1 | 8/2 | $2 / 3$ | 29/3 |
| II | 14 | 14 | 13 | 11 | 9 | 3 | 30 |
| III | 15 | 150 | 14 | 12 | 10 | 4 | 31 |
| IV | 16 | 16 | 150 | $13 \quad 0$ | 11 | 5 | 1/4 |
| V | 17 ○ | 17 | 16 | 14 | $12 \bigcirc$ | 6 | 2 |
| VI | 18 | 18 | 17 | 15 | 13 | 7 | 3 |
| VII | 19 | 19 | 18 | 16 | 14 | 8 | . 4 |
| VIII | 20 | 20 | 19 | 17 | 15 | 9 | 5 |
| IX | 21 | 21 | 20 | 18 | . 16 | 10 | 6 |
| X | 22 | 22 | 21 | 19 | 17 | 11 | 7 |
| XI | 23 | 23 | 22 | 20 | 18 | $12 \bigcirc$ | 8 |
| XII | 24 | 24 | 23 | 21 | 19 | 13 | 9 |
| XIII | 25 | 25 | 24 | 22 | 20 | 14 | 10 |
| XIV | 26 | 26 | WS 25 | 23 | 21 | 15 | 110 |
| XV | 27 | 27 | 26 | 24 | 22 | 16 |  |
| XVI | 28 | 28 | 27 | 25 | 23 | 17 |  |
| XVII | 29 | 29 | 28 | 26 | 24 | 18 |  |
| XVIII | 30 | 30 - | 29 | 27 | 25 | 15 |  |
| XIX | $31 \cdot$ | 1/12 | 30 - | 28 | 26 | 20 |  |
| XX | 1/11 | 2 | 31 | 29 - | 27 - | 21 |  |
| XXI | 2 | 3 | 1/1/213 | 30 | 28 | 22 |  |
| XXII | 3 | 4 | 2 | 31 | 29 | 23 |  |
| XXIII | 4 | 5 | 3 | 1/2 | 1/3 | VE 24 |  |
| XXIV | 5 | 6 | 4 | 2 |  | 25 |  |
| XXV | 6 | 7 | 5 | 3 |  | 26 |  |
| XXVI | 7 | 8 | 6 | 4 |  | 27 |  |
| XXVII | 8 | 9 | 7 | 5 |  | 28 • |  |
| XXVIII | 9 | 10 | 8 | 6 |  | \%; |  |
| XXIX | 10 | 11 | 9 | 7 |  |  |  |
| XXX | 11 |  |  |  | ¢ |  |  |
| XXXI | 12 |  |  |  |  |  |  |

C213 Consuls: Q. Fabius Maximus, Ti. Sempronius Gracchus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 213 | 213 | 213 | 213 | 213 | 213 |
| I |  | 29/4 | 28/5 | $28 / 6$ | 27/7 | $27 / 8$ |
| II |  | 30 | 29 | 29 | 28 | 28 |
| III |  | 1/5 | 30 | 30 | 29 | 29 |
| IV |  | 2 | 31 | 1/7 | 30 | 30 |
| V |  | 3 | 1/6 | 2 | 31 | 31 |
| VI |  | 4 | 2 | 3 | 1/8 | 1/9 |
| VII |  | 5 | 3 | 4 | 2 | 2 |
| VIII |  | 6 | 4 | 5 | 3 | 3 |
| IX |  | 7 | 5 | 6 | 4 | 4 |
| X |  | 8 | 6 | 7 | 5 | 5 |
| XI |  | 9 | 7 | 8 | 6 | $6 \quad 0$ |
| XII |  | $10 \quad 0$ | 8 | 90 | $7 \quad 0$ | 7 |
| XIII |  | 11 | $9 \quad 0$ | 10 | 8 | 8 |
| XIV |  | 12 | 10 | 11 | 9 | 9 |
| XV | 12/4 | 13 | 11 | 12 | 10. | 10 |
| XVI | 13 | 14 | 12 | 13 | 11 | 11 |
| XVII | 14 | 15 | 13 | 14 | 12 | 12 |
| XVIII | 15 | 16 | 14 | 15 | 13 | 13 |
| XIX | 16 | 17 | 15 | 16 | 14 | 14 |
| XX | 17 | 18 | 16 | 17 | 15 | 15 |
| XXI | 18 | 19 | 17 | 18 | 16 | 16 |
| XXII | 19 | 20 | 18 | 19 | 17 | 17 |
| XXIII | 20 | 21 | 19 | 20 | 18 | 18 |
| XXIV | 21 | 22 | 20 | 21 | 19 | 19 |
| XXV | 22 | 23 | 21 | 22 | 20 | 20 - |
| XXVI | 23 | 24 | 22 | $23 \bullet$ | 21 - | 21 |
| XXVII | 24 | $25 \quad$ | 23 | 24 | 22 | 22 |
| XXVIII | 25 | 26 | 24 • | 25 | 23 | 23 |
| XXIX | 26 | 27 | 25 | 26 | 24 | 24 |
| XXX | 27 |  | SS 26 |  | 25 |  |
| XXXI | 28 |  | 27 |  | 26 |  |

C213 Consuls: Q. Fabius Maximus, Ti. Sempronius Gracchus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 213 | 213 | 213 | 213/2 | 212 | 212 | 212 |
| 1 | 25/9 | 24/10 | 24/11 | 23/12 | 21/1 | 19/2 | 19/3 |
| II | AE 26 | 25 | 25 | ws 24 | 22 | 20 | 20 |
| III | 27 | 26 | 26 | 25 | 23 | 21 | 21 |
| IV | 28 | 27 | 27 | 26 | 24 | 22 | 22 |
| V | 29 | 28 | 28 | 27 | 25 | 23 | 23 |
| VI | 30 | 29 | 29 | 28 | 26 | 24 | VE 24 |
| VII | 1/10 | 30 | 30 | 29 | 27 | 25 | 25 |
| VIII | 2 | 31 | 1/12 | 30 | 28 | 26 | 26 |
| IX | 3 | 1/11 | 2 | 31 | 29 | 27 | 27 |
| X | 4 | 2 | 30 | 1/1/212 | 30. | 28 | 28 |
| XI | 50 | 3 | 4 | 20 | 31 ○ | 1/3 | 29 |
| XII | 6 | 40 | 5 | 3 | 1/2 | $20^{\circ}$ | 30 |
| XIII | 7 | 5 | 6 | 4 | 2 | 3 | 310 |
| XIV | 8 | 6 | 7 | 5 | 3 | 4 | 1/4 |
| XV | 9 | 7 | 8 | 6 | 4 | 5 |  |
| XVI | 10 | 8 | 9 | 7 | 5 | 6 |  |
| XVII | 11 | 9 | 10 | 8 | 6 | 7 |  |
| XVIII | 12 | 10 | 11 | 9 | 7 | 8 |  |
| XIX | 13 | 11 | 12 | 10 | 8 | 9 |  |
| XX | 14 | 12 | 13 | 11 | 9 | 10 |  |
| XXI | 15 | 13 | 14 | 12 | 10 | 11 |  |
| XXII | 16 | 14 | 15 | 13 | 11 | 12 |  |
| XXIII | 17 | 15 | 16 | 14 | 12 | 13 |  |
| XXIV | 18 | 16 | 17 | 15 | 13 | 14 |  |
| XXV | 19 - | 17 | 18 • | 16 | 14 | 15 |  |
| XXVI | 20 | 18 * | 19 | 17 - | 15 - | 16 |  |
| XXVII | 21 | 19 | 20 | 18 | 16 | 17 - |  |
| XXVIII | 22 | 20 | 21 | 19 | 17 | 18 |  |
| XXIX | 23 | 21 | 22 | 20 | 18 |  |  |
| XXX |  | 22 | \% \% |  |  |  |  |
| XXXI | c | 23 | $\cdots$ | \% | - |  |  |

C212 Consuls: Q. Fulvius Flaccus, Ap. Claudius Pulcher

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 212 | 212 | 212 | 212 | 212 | 212 | 212 |
| I |  | 1974 | 18/5 | $18 / 6$ | 17/7 | $17 / 8$ | 15/9 |
| II |  | 20 | 19 | 19 | 18 | 18 | 16 |
| III |  | 21 | 20 | 20 | 19 | 19 | 17 |
| IV |  | 22 | 21 | 21 | 20 | 20 | 18 |
| V |  | 23 | 22 | 22 | 21 | 21 | 19 |
| VI |  | 24 | 23 | 23 | 22 | 22 | 20 |
| VII |  | 25 | 24 | 24 | 23 | 23 | 21 |
| VIII |  | 26 | 25 | 25 | 24 | 24 | 22 |
| IX |  | 27 | 26 | Ss 26 | 25 | 25 | 23 |
| X |  | 28 | 27 | 27 | 26 | 26 - | 24 |
| XI |  | 29 | 28 | 28 ○ | 27 ○ | 27 | 250 |
| XII |  | 30 - | 29 - | 29 | 28 | 28 | AE 26 |
| XIII |  | 1/5 | 30 | 30 | 29 | 29 | 27 |
| XIV |  | 2 | 31 | 1/7 | 30 | 30 | 28 |
| XV | 2/4 | 3 | 1/6 | 2 | 31 | 31 | 29 |
| XVI | 3 | 4 | 2 | 3 | 1/8 | 1/9 | 30 |
| XVII | 4 | 5 | 3 | 4 | 2 | 2 | 1/10 |
| XVIII | 5 | 6 | 4 | 5 | 3 | 3 | 2 |
| XIX | 6 | 7 | 5 | 6 | 4 | 4 | 3 |
| XX | 7 | 8 | 6 | 7 | 5 | 5 | 4 |
| XXI | 8 | 9 | 7 | 8 | 6 | 6 | 5 |
| XXII | 9 | 10 | 8 | 9 | 7 | 7 | 6 |
| XXIII | 10 | 11 | 9 | 10 | 8 | 8 | 7 |
| XXIV | 11 | 12 | 10 | 11 | 9 | 9 - | 8 |
| XXV | 12 | 13 | 11 | 12 | 10 | 10 | 9 |
| $\mathrm{XXV1}$ | 13 | 14 | 12 | 13 - | 11 - | 11 | 10 |
| XXVII | 14 | 15 - | 13 • | 14 | 12 | 12 | 11 |
| XXVIII | 15 | 16 | 14 | 15 | 13 | 13 | 12 |
| XXIX |  | 17 | 15 | 16 | 14 | 14 | 13 |
| XXX | 17 |  | 16 |  | 15 |  |  |
| XXXI | 18 |  | 17 |  | 16 |  |  |

C212 Consuls: Q. Fulvius Flaccus, Ap. Claudius Pulcher
(intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 212 | 212 | 212/1 | 211 | 211 | 211 | 211 |
| 1 | 14/10 | 14/11 | 13/12 | 11/1 | 9/2 | 5/3 | 1/4 |
| II | 15 | 15 | 14 | 12 | 10 | 6 - | 2 |
| III | 16 | 16 | 15 | 13 | 11 | 7 | 3 |
| IV | 17 | 17 | 16 | 14 | 12 | 8 | 4 |
| V | 18 | 18 | 17 | 15 | 13 | 9 | 5 |
| VI | 19 | 19 | 18 | 16 | 14 | 10 | 6 |
| VII | 20 | 20 | 19 | 17 | 15 | 11 | 7 |
| VIII | 21 | 21 | 20 | 18 | 16 | 12 | 8 |
| IX | 22 | 22 | 21 | 19 | 17 | 13 | 9 |
| X | 23 | 230 | 22 | 20 | 18 | 14 | 10 |
| XI | $24 \bigcirc$ | 24 | 23 - | 210 | 19 - | 15 | 11 |
| XII | 25 | 25 | wS 24 | 22 | 20 | 16 | 12 |
| XIII | 26 | 26 | 25 | 23 | 21 | 17 | 13 |
| XIV | 27 | 27 | 26 | 24 | 22 | 18 | 14 |
| XV | 28 | 28 | 27 | 25 | 23 | 19 |  |
| XVI | 29 | 29 | 28 | 26 | 24 | 20 |  |
| XVII | 30 | 30 | 29 | 27 | 25 | 21 ○ |  |
| XVIII | 31 | 1/12 | 30 | 28 | 26 | 22 |  |
| XIX | 1/11 | 2 | 31 | 29 | 27 | 23 |  |
| XX | 2 | 3 | 1/1/211 | 30 | 28 | VE 24 |  |
| XXI | 3 | 4 | 2 | 31 | 1/3 | 25 |  |
| XXII | 4 | 5 | 3 | 1/2 | 2 | 26 |  |
| XXIII | 5 | 6 | 4 | 2 | 3 | 27 |  |
| XXIV | 6 | 7 - | 5 | 3 | 4 | 28 |  |
| XXV | 7 - | 8 | 6 • | 4 - |  | 29 |  |
| XXVI | 8 | 9 | 7 | 5 |  | 30 |  |
| XXVII | 9 | 10 | 8 | 6 |  | 31 |  |
| XXVIII | 10 | 11 | 9 | 7 |  |  |  |
| XXIX | 11 | 12 | 10 | 8 |  |  |  |
| XXX | 12 |  |  |  |  |  |  |
| XXXI | 13 |  |  |  |  |  |  |

C211 Consuls: Cn. Fulvius Centumalus, P. Sulcipius Galba


C211 Consuls: Cn. Fulvius Centumalus, P. Sulpicius Galba

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 211 | 211 | 211 | 211/10 | 210 | 210 | 210 |
| I | 28/9 | 27/10 | $27 / 11$ | 26/12 | 24/1 | 22/2 | 22/3 |
| II | 29 - | 28 • | 28 | 27 | 25 - | 23 - | 23 |
| III | 30 | 29 | 29 | 28 | 26 | 24 | 24 |
| IV | 1/10 | 30 | 30 | 29 | 27 | 25 | VE 25 - |
| V | 2 | 31 | 1/12 | 30 | 28 | 26 | 26 |
| VI | 3 | 1/11 | 2 | 31 | 29 | 27 | 27 |
| VII | 4 | 2 | 3 | 1/1/210 | 30 | 28 | 28 |
| VIII | 5 | 3 | 4 | 2 | 31 | 1/3 | 29 |
| IX | 6 | 4 | 5 | 3 | 1/2 | 2 | 30 |
| X | 7 | 5 | 6 | 4 | 2 | 3 | 31 |
| XI | 8 | 6 | 7 | 5 | . 3 | 4 | 1/4 |
| XII | 9 | 7 | 8 | 6 | 4 | 5 | 2 |
| XIII | 10 | 8 | 9 | 7 | 5 | 6 | 3 |
| XIV | 11 | 9 | 10 | 8 | 6 | 7 | 4 |
| XV | 12 | 10 | 11 | 9 | 7 | 8 |  |
| XVI | $13 \bigcirc$ | 11 | 120 | 10 | 8 | 9 |  |
| XVII | 14 | 120 | 13 | $11 \quad 0$ | 90 | $10 \quad 0$ |  |
| XVIII | 15 | 13 | 14 | 12 | 10 | 11 |  |
| XIX | 16 | 14 | 15 | 13 | 11 | 12 |  |
| XX | 17 | 15 | 16 | 14 | 12 | 13 |  |
| XXI | 18 | 16 | 17 | 15 | 13 | 14 |  |
| XXII | 19 | 17 | 18 | 16 | 14 | 15 |  |
| XXIII | 20 | 18 | 19 | 17 | 15 | 16 |  |
| XXIV | 21 | 19 | 20 | 18 | 16 | 17 |  |
| XXV | 22 | 20 | 21 | 19 | 17 | 18 |  |
| XXVI | 23 | 21 | 22 | 20 | 18 | 19 |  |
| XXVII | 24 | 22 | 23 | 21 | 19 | 20 |  |
| XXVIII | 25 | 33 | 24 | 22 | 20 | 21 |  |
| XXIX | 26 | 24 | 25 | 23 | 21 |  |  |
| XXX | - | 25 |  |  |  |  |  |
| XXXI | . | $26 \bullet$ |  |  |  |  |  |

C210 Consuls: M. Claudius Marcellus, M. Valerius Laevinus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| I |  | 22/4 | 21/5 | 21/6 | 20/7 | 20/8 | 18/9 |
| II |  | 23 - | 22 | 22 - | 21 - | 21 | 19 |
| III |  | 24 | 23 - | 23 | 22 | 22 | 20 |
| IV |  | 25 | 24 | 24 | 23 | 23 | 21 |
| V |  | 26 | 25 | 25 | 24 | 24 | 22 |
| VI |  | 27 | 26 | 26 | 25 | 25 | 23 |
| VII |  | 28 | 27 | SS 27 | 26 | 26 | 24 |
| VIII |  | 29 | 28 | 28 | 27 | 27 | 25 |
| IX |  | 30 | 29 | 29 | 28 | 28 | - 26 |
| X |  | 1/5 | 30 | 30 | 29 | 29 | AE 27 |
| XI |  | 2 | 31 | 1/7 | 30 | 30 | 28 |
| XII |  | 3 | 1/6 | 2 | 31 | 31 | 29 |
| XIII |  | 4 | 2 | 3 | 1/8 | 1/9 | 30 |
| XIV |  | 5 | 3 | 4 | 2 | 2 | 1/10 |
| XV | 5/4 | 6 | 4 | 5 | 3 | 30 | 2 |
| XVI | 6 | 7 | 5 | 6 \% | 40 | 4 | 3 |
| XVII | 7 | 8 - | 60 | 7 | 5 | 5 | 4 |
| XVIII | 8 | 9 | 7 | 8 | 6 | 6 | 5 |
| XIX | 90 | 10 | 8 | 9 | 7 | 7 | 6 |
| XX | 10 | 11 | 9 | 10 | 8 | 8 | 7 |
| XXI | 11 | 12 | 10 | 11 | 9 | 9 | 8 |
| XXII | 12 | 13 | 11 | 12 | 10 | 10 | 9 |
| XXIII | 13 | 14 | 12 | 13 | 11 | 11 | 10 |
| XXIV | 14 | 15 | 13 | 14 | 12 | 12 | 11 |
| XXV | 15 | 16 | 14 | 15 | 13 | 13 | 12 |
| XXVI | 16 | 17 | 15 | 16 | 14 | 14 | 13 |
| XXVII | 17 | 18 | 16 | 17 | 15 | 15 | 14 |
| XXVIII | 18 | 19 | 17 | 18 | 16 | 16 | 15 |
| XXIX | 19 | 20 | 18 | 19 | 17 | 17 | 16 |
| XXX | 20 | \% | 19 |  | 18 |  |  |
| XXXI | 21 |  | 20 |  | 19 |  | * |

C210 Consuls: M. Claudius Marcellus, M. Valerius Laevinus
(Intercal. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 210 | 210 | 210/09 | 209 | 209 | 209 | 209 |
| I | 17/10 | 17/11 | 16/12* | 14/1 | 12/2 | $6 / 3$ | 2/4 |
| II | 18 - | 18 | 17 | 15 | 13 | 7 | 3 |
| III | 19 | 19 | 18 | 16 | 14 | 8 | 4 |
| IV | 20 | 20 | 19 | 17 | 15 | 9 | 5 |
| V | 21 | 21 | 20 | 18 | 16 | 10 | 6 |
| VI | 22 | 22 | 21 | 19 | 17 | 11 | 7 |
| VII | 23 | 23 | 22 | 20 | 18 | 12 | 8 |
| VIII | 24 | 24 | 23 | 21 | 19 | 13 - | 9 |
| IX | 25 | 25 | ws 24 | 22 | 20 | 14 | 10 |
| X | 26 | 26 | 25 | 23 | 21 | 15 | 11 |
| XI | 27 | 27 | 26 | 24 | 22 | 16 | 12 |
| XII | 28 | 28 | 27 | 25 | 23 | 17 | 13 |
| XIII | 29 | 29 | 28 | 26 | 24 | 18 | 14 |
| XIV | 30 | 30 | 29 | 27 | 25 | 19 | 15 |
| XV | 31 | 1/120 | 30 | 28 | 26 | 20 |  |
| XVI | $1 / 110$ | 2 | 310 | 290 | 27 | 21 |  |
| XVII | 2 | 3 | 1/1/209 | 30 | 28 - | 22 |  |
| XVIII | 3 | 4 | 2 | 31 | 29 | 23 |  |
| XIX | 4 | 5 | 3 | 1/2 | 1/3 | ve 24 |  |
| XX | 5 | 6 | 4 | 2 | 2 | 25 |  |
| XXI | 6 | 7 | 5 | 3 | 3 | 26 |  |
| XXII | 7 | 8 | 6 | 4 | 4 | 27 |  |
| XXIII | 8 | 9 | 7 | 5 | 5 | 28 - |  |
| XXIV | 9 | 10 | 8 | 6 |  | 29 |  |
| XXV | 10 | 11 | 9 | 7 | \% | 30 |  |
| XXVI | 11 | 12 | 10 | 8 |  | 31 |  |
| XXVII | 12 | 13 | 11 | 9 |  | 1/4 |  |
| XXVIII | 13 | 14 | 12 | 10 | 4 | $\alpha$ |  |
| XXIX | 14 | 15 | 13 | 11 | * | \% |  |
| XXX | 15 |  |  |  |  |  |  |
| XXXI | 16 - |  |  |  |  |  |  |

C209 Consuls: Q. Fabius Maximus, Q. Fulvius Flaccus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 209 | 209 : | 209 | 209 | 209 | 209 |
| I |  | 3/5 | 1/6 | 2/7 | 31/7 | 31/8 |
| II |  | 4 | 2 | 3 | 1/8 | 1/9 |
| III |  | 5 | 3 | 4 | 2 | 2 |
| IV |  | 6 | 4 | 5 | 3 | 3 |
| V |  | 7 | 5 | 6 | 4 | 4 |
| VI |  | 8 | 6 | 7 | 5 | 5 |
| VII |  | 9 | 7 | 8 | 6 | 6 |
| VIII |  | 10 | 8 | $9 \quad \bullet$ | 7 | 7 - |
| IX |  | 11 - | 9 | 10 | 8. | 8 |
| X |  | 12 | 10 - | 11 | 9 | 9 |
| XI |  | 13 | 11 | 12 | 10 | 10 |
| XII |  | 14 | 12 | 13 | 11 | 11 |
| XIII |  | 15 | 13 | 14 | 12 | 12 |
| XIV |  | 16 | 14 | 15 | 13 | 13 |
| XV | 16/4 | 17 | 15 | 16 | 14 | 14 |
| XVI | 17 | 18 | 16 | 17 | 15 | 15 |
| XVII | 18 | 19 | 17 | 18 | 16 | 16 |
| XVIII | 19 | 20 | 18 | 19 | 17 | 17 |
| XIX | 20 | 21 | 19 | 20 | 18 | 18 |
| XX | 21 | 22 | 20 | 21 | 19 | 19 |
| XXI | 22 | 23 | 21 | 22 | 20 | 20 |
| XXII | 23 | 24 | 22 | 23 | 21 | $21 \quad 0$ |
| XXIII | 24 | 25 | 23 | $24 \quad 0$ | $22 \quad 0$ | 22 |
| XXIV | 25 | $26 \quad 0$ | $24 \quad 0$ | 25 | 23 | 23 |
| XXV | 26 | 27 | 25 | 26 | 24 | 24 |
| XXVI | $27 \quad 0$ | 28 | SS 26 | 27 | 25 | 25 |
| XXVII | 28 | 29 | 27 | 28 | 26 | AE 26 |
| XXVIII | 29 | 30 | 28 | 29 | 27 | 27 |
| XXIX | 30 | 31 | 29 | 30 | 28 | 28 |
| XXX | $1 / 5$ | , < | 30 |  | 29 |  |
| XXXI | 2 | - | 1/7 |  | 30 |  |

C209 Consuls: Q. Fabius Maximus, Q. Fulvius Flaccus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 209 | 209 | 209 | 209/8 | 208 | 208 | 208 |
| I | $29 / 9$ | 28/10 | 28/11 | 27/12 | 25/1 | 23/2 | 23/3 |
| II | 30 | 29 | 29 | 28 | 26 | 24 | VE 24 |
| III | 1/10 | 30 | 30 | 29 | 27 | 25 | 25 |
| IV | 2 | 31 | 1/12 | 30 | 28 | 26 | 26 |
| V | 3 | 1/11 | 2 | 31 | 29 | 27 | 27 |
| VI | 4 | 2 | 3 | 1/1/208 | 30 | 28 | 28 |
| VII | 5 | 3 | 4 • | 2 | 31 | 1/3 | 29 |
| VIII | 6 • | 4 | 5 | 3 - | 1/2 ${ }^{\text {- }}$ | 2 | 30 |
| IX | 7 | 5 • | 6 | 4 | 2 | 3 | 31 |
| X | 8 | 6 | 7 | 5 | 3 | 4 | 1/4 |
| XI | 9 | 7 | 8 | 6 | 4 | 5 | 2 |
| XII | 10 | 8 | 9 | 7 | 5 | 6 | 3 |
| XIII | 11 | 9 | 10 | 8 | 6. | 7 | 4 |
| XIV | 12 | 10 | 11 | 9 | 7 | 8 | 5 |
| XV | 13 | 11 | 12 | 10 | 8 | 9 |  |
| XVI | 14 | 12 | 13 | 11 | 9 | 10 |  |
| XVII | 15 | 13 | 14 | 12 | 10 | 11 |  |
| XVIII | 16 | 14 | 15 | 13 | 11 | 12 |  |
| XIX | 17 | 15 | 16 | 14 | 12 | 13 |  |
| XX | 18 | 16 | 17 | 15 | 13 | 14 |  |
| XXI | 19 | 17 | 18 | 16 | 14 | 15 |  |
| XXII | 20 ○ | 18 | 190 | 17 | 15 | 16 |  |
| XXIII | 21 | 190 | 20 | $18 \quad 0$ | $16 \quad 0$ | 17 |  |
| XXIV | 22 | 20 | 21 | 19 | 17 | 18 |  |
| XXV | 23 | 21 | 22 | 20 | 18 | 19 |  |
| XXVI | 24 | 22 | 23 | 21 | 19 | 20 |  |
| XXVII | 25 | 23 | ws 24 | 22 | 20 | 21 |  |
| XXVIII | 26 | 24 | 25 | 23 | 21 | 22 |  |
| XXIX | 27 | 25 | 26 | 24 | 22 |  |  |
| XXX | , | 26 |  |  |  |  |  |
| XXXI |  | 27 |  |  |  |  |  |

C208 Consuls: M. Claudius Marcellus, T. Quinctius Crispinus

|  | MAR | APR | MAI | JUN | QUl | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 208 | 208 | 208 | 208 | 208 | 208 |
| I |  | 23/4 | $22 / 5$ | $22 / 6$ | 21/7 | 21/8 |
| II |  | 24 | 23 | 23 | 22 | 22 |
| III |  | 25 | 24 | 24 | 23 | 23 |
| IV |  | 26 | 25 | 25 | 24 | 24 |
| V |  | 27 | 26 | SS 26 | 25 | 25 |
| VI |  | 28 | 27 | 27 | 26 | 26 |
| VII |  | 29 | 28 | 28 • | 27 | 27 - |
| VIII |  | 30 • | 29 | 29 | 28 - | 28 |
| IX |  | 1/5 | 30 • | 30 | 29 | 29 |
| X |  | 2 | 31 | 1/7 | 30 | 30 |
| XI |  | 3 | -1/6 | 2 | 31 | 31 |
| XII |  | 4 | 2 | 3 | 1/8 | 1/9 |
| XIII |  | 5 | 3 | 4 | 2 | 2 |
| XIV |  | 6 | 4 | 5 | 3 | 3 |
| XV | 6/4 | 7 | 5 | 6 | 4 | 4 |
| XVI | 7 | 8 | 6 | 7 | 5 | 5 |
| XVII | 8 | 9 | 7 | 8 | 6 | 6 |
| XVIII | 9 | 10 | 8 | 9 | 7 | 7 |
| XIX | 10 | 11 | 9 | 10 | 8 | 8 |
| XX | 11 | 12 | 10 | 11 | 9 | 9 |
| XXI | 12 | 13 | 11 | 12 | 10 | 10 - |
| XXII | 13 | 14 | 12 | $13 \quad 0$ | 11 | 11 |
| XXIII | 14 | 15 | 13 | 14 | $12 \quad 0$ | 12 |
| XXIV | 15 | $16 \quad 0$ | $14 \bigcirc$ | 15 | 13 | 13 |
| XXV | $16 \quad 0$ | 17 | 15 | 16 | 14 | 14 |
| XXVI | 17 | 18 | 16 | 17 | 15 | 15 |
| XXVII | 18 | 19 | 17 | 18 | 16 | 16 |
| XXVIII | 19 | 20 | 18 | 19 | 17 | 17 |
| XXIX | 20 | 21 | 19 | 20 | 18 | 18 |
| XXX | 21 |  | 20 |  | 19 |  |
| XXXI | 22 | $\cdots$ | 21 |  | 20 | - |

C208 Consuls: M. Claudius Marcellus, T. Quinctius Crispinus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 208 | 208 | 208 | 208/7 | 207 | 207 | 207 |
| I | 19/9 | 18/10 | 18/11 | 17/12 | 15/1 | 13/2 | 13/3 |
| II | 20 | 19 | 19 | 18 | 16 | 14 | 14 |
| III | 21 | 20 | 20 | 19 | 17 | 15 | 15 |
| IV | 22 | 21 | 21 | 20 | 18 | 16 | 16 |
| V | 23 | 22 | 22 | 21 | 19 | 17 | 17 |
| VI | 24 | 23 | 23 | 22 | 20 | 18 | 18 |
| VII | 25 • | 24 | 24 - | 23 • | 21 | 19 | 19 |
| VIII | AE 26 | 25 - | 25 | ws 24 | 22 | 20 | 20 |
| IX | 27 | 26 | 26 | 25 | 23 | 21 | 21 |
| X | 28 | 27 | 27 | 26 | 24 | 22 | 22 |
| XI | 29 | 28 | 28 | 27 | 25 | 23 | 23 |
| XII | 30 | 29 | 29 | 28 | 26 | 24 | VE 24 |
| XIII | 1/10 | 30 | 30 | 29 | 27 | 25 | 25 |
| XIV | 2 | 31 | 1/12 | 30 | 28 | 26 | 26 |
| XV | 3 | 1/11 | 2 | 31 | 29 | 27 |  |
| XVI | 4 | 2 | 3 | 1/I/207 | 30 | 28 |  |
| XVII | 5 | 3 | 4 | 2 | 31. | 1/3 |  |
| XVIII | 6 | 4 | 5 | 3 | 1/2 | 2 |  |
| XIX | 7 | 5 | 6 | 4 | 2 | 3 |  |
| XX | 8 | 6 | 7 | 5 | 3 | 4 |  |
| XXI | 9 | 7 | 80 | 6 | 4 | 5 |  |
| XXII | 10 - | 8 0 | 9 | 7 - | 5 | 6 |  |
| XXIII | 11 | 9 | 10 | 8 | 6 | 7 |  |
| XXIV | 12 | 10 | 11 | 9 | 7 | 8 |  |
| XXV | 13 | 11 | 12 | 10 | 8 | 9 |  |
| XXVI | 14 | 12 | 13 | 11 | 9 | 10 |  |
| XXVII | 15 | 13 | 14 | 12 | 10 | 11 |  |
| XXVIII | 16 | 14 | 15 | 13 | 11 | 12 |  |
| XXIX | 17 | 15 | 16 | 14 | 12 |  |  |
| XXX |  | 16 |  | * |  |  |  |
| XXXI |  | 17 |  |  |  |  |  |

C207 Consuls: C. Claudius Nero, M. Livius Salinator

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 207 | 207 | 207 | 207 | 207 | 207 |
| I |  | 13/4 | 12/5 | 12/6 | 11/7 | 11/8 |
| II |  | 14 | 13 | 13 | 12 | 12 |
| III |  | 15 | 14 | 14 | 13 | 13 |
| IV |  | 16 | 15 | 15 | 14 | 14 |
| V |  | 17 | 16 | 16 | 15 | 15 |
| VI |  | 18 | 17 | 17 | 16 | 16 - |
| VII | , | 19 | 18 | 18 | 17 - | 17 |
| VIII |  | 20 | 19 - | 19 | 18 | 18 |
| IX |  | 21 | 20 | 20 | 19 | 19 |
| X |  | 22 | 21 | 21 | 20 | 20 |
| XI |  | 23 | 22 | 22 | 21 | 21 |
| XII |  | 24 | 23 | 23 | 22 | 22 |
| XIII |  | 25 | 24 | 24 | 23 | 23 |
| XIV |  | 26 | 25 | 25 | 24 | 24 |
| XV | 27/3 | 27 | 26 | SS 26 | 25 | 25 |
| XVI | 28 | 28 | 27 | 27 | 26 | 26 |
| XVII | 29 | 29 | 28 | 28 | 27 | 27 |
| XVIII | 30 | 30 | 29 | 29 | 28 | 28 |
| XIX | 31 | $1 / 5$ | 30 | 30 | 29 | 29 |
| XX | 1/4 | 2 | 31 | 1/7 | 30 | 30 |
| XXI | 2 | 3 | 1/6 | 2 | 31 | $31 \quad 0$ |
| XXII | 3 | 4 | 2 | 30 | $1 / 8 \quad 0$ | 1/9 |
| XXIII | 4 | 5 | 3 | 4 | 2 | 2 |
| XXIV | 5 | 6 | 40 | 5 | 3 | 3 |
| XXV | $6 \quad 0$ | 7 | 5 | 6 | 4 | 4 |
| XXVI | 7 | 8 | 6 | 7 | 5 | 5 |
| XXVII | 8 | 9 | 7 | 8 | 6 | 6 |
| XXVIII | 9 | 10 | 8 | 9 | 7 | 7 |
| XXIX | 10 | 11 | 9 | 10 | 8 | 8 |
| XXX | 11 |  | 10 |  | 9 |  |
| XXXI | 12 |  | 11 | \% | 10 |  |

C207 Constils: C. Claudius Nero, M. Livius Salinator

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 207 | 207 | 207 | $207 / 6$ | 206 | 206 | 206 |
| I | $9 / 9$ | 8/10 | 8/11 | $7 / 12$ | 5/1 | $3 / 2$ | $3 / 3$ |
| II | 10 | 9 | 9 | 8 | 6 | 4 | 4 |
| III | 11 | 10 | 10 | 9 | 7 | 5 | 5 |
| IV | 12 | 11 | 11 | 10 | 8 | 6 | 6 |
| V | 13 | 12 | 12 | 11 | 9 | 7 | 7 |
| VI | 14 | 13 | 13 - | 12 | 10 | 8 | 8 |
| VII | 15 • | 14 • | 14 | 13 - | 11 - | 9 | 9 |
| VIII | 16 | 15 | 15 | 14 | 12 | 10 | 10 |
| IX | 17 | 16 | 16 | 15 | 13 | 11 | 11 |
| X | 18 | 17 | 17 | 16 | 14 | 12 | 12 |
| XI | 19 | 18 | 18 | 17 | 15 | 13 | 13 |
| Xil | 20 | 19 | 19 | 18 | 16 | 14 | 14 |
| XIII | 21 | 20 | 20 | 19 | 17 | 15 | 15 |
| XIV | 22 | 21 | 21 | 20 | 18 | 16 | 16 |
| XV | 23 | 22 | 22 | 21 | 19 | 17 |  |
| XVI | 24 | 23 | 23 | 22 | 20 | 18 |  |
| XVII | 25 | 24 | 24 | 23 | 21 | 19 |  |
| XVIII | 26 | 25 | 25 | ws 24 | 22 | 20 |  |
| XIX | AE 27 | 26 | 26 | 25 | 23 | 21 |  |
| XX | 28 | 27 | 27 ○ | 26 | 24 | 22 |  |
| XXI | $29 \bigcirc$ | 28 | 28 | 270 | $25 \quad \circ$ | 23 |  |
| XXII | 30 | 290 | 29 | 28 | 26 | 24 |  |
| XXIII | 1/10 | 30 | 30 | 29 | 27 | 25 |  |
| XXIV | 2 | 31 | 1/12 | 30 | 28 | 26 |  |
| XXV | 3 | 1/11 | 2 | 31 | 29 | 27 |  |
| XXVI | 4 | 2 | 3 | 1/1/206 | 30 | 28 |  |
| XXVII | 5 | 3 | 4 | 2 | 31 | 1/3 |  |
| XXVIII | 6 | 4 | 5 | 3 | $1 / 2$ | 2 |  |
| XXIX | 7 | 5 | 6 | 4 | 2 |  |  |
| XXX | 2 | 6 |  |  |  | \% |  |
| XXXI |  | 7 |  |  |  |  |  |

C206 Consuls: L. Veterius Philo, Q. Caecilius Metellus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 206 | 206 | 206 | 206 | 206 | 206 |
| I |  | $3 / 4$ | $2 / 5$ | 2/6 | 1/7 | 1/8 |
| II |  | 4 | 3 | 3 | 2 | 2 |
| III |  | 5 | 4 | 4 | 3 | 3 |
| IV |  | 6 | 5 | 5 | 4 | 4 |
| V |  | 7 | 6 | 6 | 5 | 5 |
| VI |  | 8 | 7 | 7 - | 6 - | 6 |
| VII |  | 9 - | 8 | 8 | 7 | 7 |
| VIII |  | 10 | 9 - | 9 | 8 | 8 |
| IX |  | 11 | 10 | 10 | 9 | 9 |
| X |  | 12 | 11 | 11 | 10 | 10 |
| XI |  | 13 | 12 | 12 | 11 | 11 |
| XII |  | 14 | 13 | 13 | 12 | 12 |
| XIII |  | 15 | 14 | 14 | 13 | 13 |
| XIV |  | 16 | 15 | 15 | 14 | 14 |
| XV | 17/3 | 17 | 16 | 16 | 15 | 15 |
| XVI | 18 | 18 | 17 | 17 | 16 | 16 |
| XVII | 19 | 19 | 18 | 18 | 17 | 17 |
| XVIII | 20 | 20 | 19 | 19 | 18 | 18 |
| XIX | 21 | 21 | 20 | 20 | 19 | 19 |
| XX | 22 | 22 | 21 | 21 | 20 | 20 |
| XXI | 23 | 23 | 22 | 22 | 21 | 21 |
| XXII | VE 24 | 24 ○ | 23 | $23 \quad \circ$ | 220 | 22 |
| XXIII | 25 | 25 | $24 \quad 0$ | 24 | 23 | 23 |
| XXIV | $26 \quad 0$ | 26 | 25 | 25 | 24 | 24 |
| XXV | 27 | 27 | 26 | 26 | 25 | 25 |
| XXVI | 28 | 28 | 27 | SS 27 | 26 | 26 |
| XXVII | 29 | 29 | 28 | 28 | 27 | 27 |
| XXVIII | 30 | 30 | 29 | 29 | 28 | 28 |
| XXIX | 31 | 1/5 | 30 | 30 | 29 | 29 |
| XXX | 1/4 |  | 31 |  | 30 |  |
| XXXI | 2 |  | 1/6 | \% | 31 |  |

C206 Consuls: L. Veterius Philo, Q. Caecilius Metellus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 206 | 206 | 206 | 206 | 206/5 | 205 | 205 |
| I | $30 / 8$ | 28/9 | 29/10 | 27/11 | 26/12 | 24/1 | 21/2 |
| II | 31 | 29 | 30 | 28 | 27 | 25 | 22 |
| III | 1/9 | 30 | 31 | 29 | 28 | 26 | 23 |
| IV | 2 | 1/10 | 1/11 | 30 | 29 | 27 | 24 |
| V | 3 | 2 | 2 。 | 1/12 | 30 | 28 | 25 |
| VI |  | 3 • | 3 | 2 - | 31 | 29 | 26 |
| VII | 5 | 4 | 4 | 3 | 1/1/2050 | 30 | 27 |
| VIII | 6 | 5 | 5 | 4 | 2 | 31 | 28 |
| IX | 7 | 6 | 6 | 5 | 3 | 1/2 | 29 |
| X | 8 | 7 | 7 | 6 | 4 | 2 | 1/3 |
| XI | 9 | 8 | 8 | 7 | 5 | 3 | 2 |
| XII | 10 | 9 | 9 | 8 | 6 | 4 | 3 |
| XIII | 11 | 10 | 10 | 9 | 7 | 5 | 4 |
| XIV | 12 | 11 | 11 | 10 | 8 | 6 | 5 |
| XV | 13 | 12 | 12 | 11 | 9 | 7 |  |
| XVI | 14 | 13 | 13 | 12 | 10 | 8 |  |
| XVII | 15 | 14 | 14 | 13 | 11 | 9 |  |
| XVIII | 16 | 15 | 15 | 14 | 12 | 10 |  |
| XIX | 17 | 16 | 16 | 15 | 13 | 11 |  |
| XX | 18 | 17 | 170 | $16 \bigcirc$ | 14 | 12 |  |
| XXI | 19 - | 180 | 18 | 17 | $15 \quad 0$ | 13 |  |
| XXII | 20 | 19 | 19 | 18 | 16 | 14 |  |
| XXIII | 21 | 20 | 20 | 19 | 17 | 15 |  |
| XXIV | 22 | 21 | 21 | 20 | 18 | 16 |  |
| XXV | 23 | 22 | 22 | 21 | 19 | 17 |  |
| XXVI | 24 | 23 | 23 | 22 | 20 | 18 |  |
| XXVII | 25 | 24 | 24 | 23 | 21 | 19 |  |
| XXVIII | 26 | 25 | 25 | WS 24 | 22 | 20 |  |
| XXIX | AE 27 | 26 | 26 | 25 | 23 |  |  |
| XXX |  | 27 |  |  |  |  |  |
| XXXI |  | 28 |  |  |  |  |  |

C205 Consuls: P. Corneilius Scipio Africanus, P. Licinius Crassus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 205 | 205 | 205 | 205 | 205 | 205 |
| I |  | 23/3 | 21/4 | 22/5 | 20/6 | 21/7 |
| II |  | VE 24 | 22 | 23 | 21 | 22 |
| III |  | 25 | 23 | 24 | 22 | 23 |
| IV |  | 26 | 24 | 25 | 23 | 24 |
| V |  | 27 | 25 | 26 | 24 | 25 |
| VI |  | 28 | 26 | 27 - | 25 • | 26 |
| VII |  | $29 \quad \bullet$ | 27 • | 28 | SS 26 | 27 |
| VIII |  | 30 | 28 | 29 | 27 | 28 |
| IX |  | 31 | 29 | 30 | 28 | 29 |
| X |  | 1/4 | 30 | 31 | 29 | 30 |
| XI |  | 2 | 1/5 | 1/6 | 30 | 31 |
| XII |  | 3 | 2 | 2 | 1/7 | 1/8 |
| XIII |  | 4 | 3 | $3 \cdot$ | 2 | 2 |
| XIV |  | 5 | 4 | 4 | 3 | 3 |
| XV | $6 / 3$ | 6 | 5 | 5 | 4 | 4 |
| XVI | 7 | 7 | 6 | 6 | 5 | 5 |
| XVII | 8 | 8 | 7 | 7 | 6 | 6 |
| XVisI | 9 | 9 | 8 | 8 | 7 | 7 |
| XIX | 10 | 10 | 9 | 9 | 8 | 8 |
| XX | 11 | 11 | 10 | 10 | 9 | 9 |
| XXI | 12 | $12 \bigcirc$ | 11 | $11 \quad 0$ | $10 \quad 0$ | 10 |
| XXII | 13 | 13 | $12 \quad 0$ | 12 | 11 | 11 |
| XXIII | 14 ○ | 14 | 13 | 13 | 12 | 12 |
| XXIV | 15 | 15 | 14 | 14 | 13 | 13 |
| XXV | 16 | 16 | 15 | 15 | 14 | 14 |
| XXVI | 17 | 17 | 16 | 16 | 15 | 15 |
| XXVII | 18 | 18 | 17 | 17 | 16 | 16 |
| XXVIII | 19 | 19 | 18 | 18 | 17 | 17 |
| XXIX | 20 | 20 | 19 | 19 | 18 | 18 |
| XXX | 21 | \% | 20 |  | 19 |  |
| XXXI | 22 | $\square$ | 21 | - | 20 |  |

C205 Consuls: P. Cornelius Scipio Africanus, P. Licinius Crassus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 205 | 205 | 205 | 205/4 | 204 | 204 | 204 |
| I | $19 / 8$ | 17/9 | 18/10 | 16/11 | 15/12 | 13/1 | 10/2 |
| II | 20 | 18 | 19 | 17 | 16 | 14 | 11 |
| III | 21 | 19 | 20 | 18 | i | 15 | 12 |
| IV | 22 | 20 | 21 - | 19 | 18 | 16 | 13 |
| V | 23 - | 21 - | 22 | 20 - | 19 | 17 | 14 |
| VI | 24 | 22 | 23 | 21 | 20 - | 18 | 15 |
| VII | 25 | 23 | 24 | 22 | 21 | 19 | 16 |
| VIII | 26 | 24 | 25 | 23 | 22 | 20 | 17 |
| IX | 27 | 25 | 26 | 24 | 23 | 21 | 18 |
| X | 28 | AE 26 | 27 | 25 | ws 24 | 22 | 19 |
| XI | 29 | 27 | 28 | 26 | 25 | 23 | 20 |
| XII | 30 | 28 | 29 | 27 | 26 | 24 | 21 |
| XIII | 31 | 29 | 30 | 28 | 27 | 25 | 22 |
| XIV | 1/9 | 30 | 31 | 29 | 28 | 26 | 23 |
| XV | 2 | 1/10 | 1/11 | 30 | 29 | 27 |  |
| XVI | 3 | 2 | 2 | 1/12 | 30 | 28 |  |
| XVİ | 4 | 3 | 3 | 2 | 31 | 29 |  |
| XVIII | 5 | 4 | 4 | 3 | 1/1/204 | 30 |  |
| XIX | 6 | 5 | 50 | 4 | 2 | 31 |  |
| XX |  | 6 | 6 | 50 | 30 | 1/2 |  |
| XXI | 8 | 7 - | 7 | 6 | 4 | 2 |  |
| XXII | 9 | 8 | 8 | 7 | 5 | 3 |  |
| XXIII | 10 | 9 | 9 | 8 | 6 | 4 |  |
| XXIV | 11 | 10 | 10 | 9 | 7 | 5 |  |
| XXV | 12 | 11 | 11 | 10 | 8 | 6 |  |
| XXVI | 13 | 12 | 12 | 11 | 9 | 7 |  |
| XXVIl | 14 | 13 | 13 | 12 | 10 | 8 |  |
| XXVIII | 15 | 14 | 14 | 13 | 11 | 9 |  |
| XXIX | 16 | 15 | 15 | 14 | 12 |  |  |
| XXX | $\cdots$ | 16 |  |  |  |  |  |
| XXXI |  | 17 |  |  |  |  |  |

C204 Consuls: M. Cornelius Cethegus, P. Sempronius Tuditanus


C204 Consuls: M. Cornelius Cethegus, P. Sempronius Tuditanus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 204 | 204 | 204 | 204 | 204/3 | 203 | 203 |
| I | 9/8 | $7 / 9$ | 8/10 | 6/11 | 5/12 | 3/1 | 31/1 |
| II | 10 | 8 | 9 | 7 | 6 | 4 | 1/2 |
| III | 11 | 9 | 10 - | 8 | 7 | 5 | 2 |
| IV | 12 - | 10 | 11 | 9 - | 8 | 6 | 3 |
| V | 13 | 11 - | 12 | 10 | 9 - | 7 - | 4 |
| VI | 14 | 12 | 13 | 11 | 10 | 8 | 5 |
| VII | 15 | 13 | 14 | 12 | 11 | 9 |  |
| VIII | 16 | 14 | 15 | 13 | 12 | 10 | 7 |
| IX | 17 | 15 | 16 | 14 | 13 | 11 | 8 |
| X | 18 | 16 | 17 | 15 | 14 | 12 | 9 |
| XI | 19 | 17 | 18 | 16 | 15 | 13 | 10 |
| XII | 20 | 18 | 19 | 17 | 16 | 14 | 11 |
| XIII | 21 | 19 | 20 | 18 | 17 | . 15 | 12 |
| XIV | 22 | 20 | 21 | 19 | 18 | 16 | 13 |
| XV | 23 | 21 | 22 | 20 | 19 | 17 |  |
| XVI | 24 | 22 | 23 | 21 | 20 | 18 |  |
| XVII | 25 | 23 | 24 | 22 | 21 | 19 |  |
| XVII! | 26 | 24 | 25 | 23 | 22 | 20 |  |
| XIX | 27 | 25 | 260 | 24 ○ | 23 | 21 |  |
| XX | 28 - | AE 260 | 27 | 25 | ws $24 \quad 0$ | 220 |  |
| XXI | 29 | 27 | 28 | 26 | 25 | 23 |  |
| XXII | 30 | 28 | 29 | 27 | 26 | 24 |  |
| XXIII | 31 | 29 | 30 | 28 | 27 | 25 |  |
| XXIV | 1/9 | 30 | 31 | 29 | 28 | 26 |  |
| XXV | 2 | 1/10 | 1/11 | 30 | 29 | 27 |  |
| XXVI | 3 | 2 | 2 | 1/12 | 30 | 28 |  |
| XXVII | 4 | 3 | 3 | 2 | 31 | 29 |  |
| XXVIII | 5 | 4 | 4 | 3 | 1/1/203 | 30 |  |
| XXIX | 6 | 5 | 5 | 4 | 2 |  |  |
| XXX |  | 6 |  | \% |  | \% |  |
| XXXI |  | 7 |  |  | * 08 |  |  |

C203 Consuls: Cn. Servilius Caepio, C. Servilius Geminus


C203 Consuls: Cn. Servilius Caepio, C. Servilius Geminus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 203 | 203 | 203 | 203 | 203 | 203/2 | 202 |
| 1 | 30/7 | 28/8 | 28/9 | 27/10 | 25/11 | ws 24/12 | 21/1 |
| II | 31 | 29 | 29 | 28 | 20 | 25 | 22 |
| III | 1/8 | 30 | 30 - | 29 - | 27 | 26 | 23 |
| IV | 2 - | 31 * | $1 / 10$ | 30 | 28 • | 27 | 24 |
| V | 3 | 1/9 | 2 | 31 | 29 | 28 | 25 |
| VI | 4 | 2 | 3 | 1/11 | 30 | 29 | 26 |
| VII | 5 | 3 | 4 | 2 | 1/12 | - 30 | 27 |
| VIII | 6 | 4 | 5 | 3 | 2 | 31 | 28 |
| IX | - | 3 | 6 | 4 | 3 | 1/1/202 | 29 |
| X | . | 6 | 7 | 5 | 4 | 2 | 30 |
| XI | 9 | 7 | 8 | 6 | 5 | 3 | 31 |
| XII | 10 | 8 | 9 | 7 | 6 | 4 | 1/2 |
| XIII | 11 | 9 | 10 | 8 | 7 | 5 | 2 |
| XIV | 12 | 10 | 11 | 9 | 8 | 6 | 3 |
| XV | 13 | 11 | 12 | 10 | 9 | 7 |  |
| XVI | 14 | 12 | 13 | 11 | 10 | 8 |  |
| XVII | 15 | 13 | 14 | 12 | 11 | 9 |  |
| XVIII | 16 | 14 | 150 | 13 | 12 | 10 |  |
| XIX | 17 - | 150 | 16 | $14 \quad 0$ | $13 \quad 0$ | 11 |  |
| XX | 18 | 16 | 17 | 15 | 14 | $12 \quad 0$ |  |
| XXI | 19 | 17 | 18 | 16 | 15 | 13 |  |
| XXII | 20 | 18 | 19 | 17 | 16 | 14 |  |
| XXIII | 21 | 19 | 20 | 18 | 17 | 15 |  |
| XXIV | 22 | 20 | 21 | 19 | 18 | 16 |  |
| XXV | 23 | 21 | 22 | 20 | 19 | 17 |  |
| XXVI | 24 | 22 | 23 | 21 | 20 | 18 |  |
| XXVII | 25 | 23 | 24 | 22 | 21 | 19 |  |
| XXVIII | 26 | 24 | 25 | 23 | 22 | 20 |  |
| XXIX | 27 | 25 | 26 | 24 | 23 |  |  |
| XXX |  | 26 |  | \% | $\cdots$ |  |  |
| XXXI |  | AE 27 |  |  |  | $\because$ |  |

C202 Consuls: M. Servilius Geminus, Ti. Claudius Nero

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 202 | 202 | 202 | 202 | 202 | 202 |
| I |  | 21/2 | 22/3 | 22/4 | 21/5 | 21/6 |
| II |  | 22 | 23 | 23 | 22 | 22 |
| III |  | 23 | VE 24 | 24 | 23 | 23 |
| IV |  | 24 | 25 | 25 | 24 | 24 |
| V |  | 25 | 26 | 26 | 25 | 25 |
| VI |  | 26 | 27 | 27 | 26 | 26 |
| VII |  | 27 | 28 | 28 | 27 | Ss 27 |
| VIII |  | 28 | 29 | 29 | 28 | 28 |
| IX |  | 1/3 | 30 | 30 | 29 | 29 |
| X |  | 2 | 31 | 1/5 | 30 | 30 |
| XI |  | 3 | 1/4 | 2 | 31 | 1/7 |
| XII |  | 4 | 2 | 3 | 1/6 | 2 |
| XIII |  | - | 3 | 4 | 2 | 3 |
| XIV |  | 6 | 4 | 5 | 3 | 4 |
| XV | 4/2 | 7 | 5 | 6 | 4 | 5 |
| XVI | 5 | 8 | 6 | 7 | 5 | 6 |
| XVII | 6 | 9 | 7 | 8 | 6 | 7 |
| XVIII | 7 | 10 | 8 | 9 | 7 | 8 |
| XIX | 8 | 11 | 9 | 10 | 8 | 9 |
| XX | 9 | 12 | 10 | 11 | 9 | 10 |
| XXI | 10 | 13 | 11 | 12 | 10 | 11 |
| XXII | 11 | 14 | 12 | 13 | 11 | 12 |
| XXIII | 12 | 15 | 13 | 14 | 12 | 13 |
| XXIV | 13 | 16 | 14 | 15 | 13 | 14 |
| XXV | 14 | 17 | 15 | 16 | 14 | 15 |
| XXVI | 15 | 18 | 16 | 17 | 15 | 16 |
| XXVII | 16 | 19 | 17 | 18 | 16 | 17 |
| XXVIII | 17 | 20 | 18 | 19 | 17 | 18 |
| XXIX | 18 | 21 | 19 | 20 | 18 | 19 |
| XXX | 19 |  | 20 |  | 19 |  |
| XXXI | 20 |  | 21 |  | 20 |  |

C202 Consuls: M. Servilius Geminus, Ti. Claudius Nero

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 202 | 202 | 202 | 202 | 202 | 202/1 | 201 |
| I | 20/7 | 18/8 | 18/9 | 17/10 | 15/11 | 14/12 | 11/1 |
| II | 21 | 19 | 19 • | 18 | 16 | 15 | 12 |
| III | 22 | 20 | 20 | SE $19 \quad$ | 17 - | 16 | 13 |
| IV | 23 - | 21 - | 21 | 20 | 18 | 17 - | 14 |
| V | 24 | 22 | 22 | 21 | 19 | 18 | 15 |
| VI | 5 | 23 | 23 | 22 | 26 | 19 | 16 |
| VII | 26 | 24 | 24 | 23 | 21 | 20 | 17 |
| VIII | 27 | 25 | 25 | 24 | 22 | 21 | 18 |
| IX | 28 | 26 | 26 | 25 | 23 | 22 | 19 |
| $\checkmark$ | 29 | 27 | AE 27 | 26 | 24 | 23 | 20 |
| XI | 30 | 28 | 28 | 27 | 25 | ws 24 | 21 |
| XII | 31 | 29 | 29 | 28 | 26 | 25 | 22 |
| XIII | 1/8 | 30 | 30 | 29 | 27 | 26 | 23 |
| XIV | 2 | 31 | 1/10 | 30 | 28 | 27 | 24 |
| XV | 3 | 1/9 | 2 | 31 | 29 | 28 |  |
| XVI | 4 | 2 | 3 | 1/11 | 30 | 29 |  |
| XVII | 5 | 3 | 40 | 2 | 1/12 | 30 |  |
| XVIII | 60 | 40 | 5 | 30 | 2 | 31 |  |
| XIX | 7 | 5 | 6 | 4 | 30 | 1/1/2010 |  |
| XX | 8 | 6 | 7 | 5 | 4 | 2 |  |
| XXI | 9 | 7 | 8 | 6 | 5 | 3 |  |
| XXII | 10 | 8 | 9 | 7 | 6 | 4 |  |
| XXIII | 11 | 9 | 10 | 8 | 7 | 5 |  |
| xXIV | 12 | 10 | 11 | 9 | 8 | 6 |  |
| XXV | 13 | 11 | 12 | 10 | 9 | 7 |  |
| XXVI | 14 | 12 | 13 | 11 | 10 | 8 |  |
| XXVII | 15 | 13 | 14 | 12 | 11 | 9 |  |
| XXVIII | 16 | 14 | 15 | 13 | 12 | 10 |  |
| XXIX | 17 | 15 | 16 | 14 | 13 |  |  |
| XXX |  | 16 |  |  |  |  |  |
| XXXI | \% | 17 |  |  |  |  |  |

C201 Consuls: Cn. Cornelius Lentulus, P. Aelius Paetus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 201 | 201 | 201 | 201 | 201 | 201 |
| I |  | 11/2 | 11/3 | 11/4 | $10 / 5$ | 10/6 |
| II |  | 12 | 12 | 12 | 11 | 11 |
| III |  | 13 | 13 | 13 - | 12 | 12 |
| IV |  | 14 - | 14 | 14 | 13 - | 13 |
| V |  | 15 | 15 - | 15 | 14 | 14 |
| VI |  | 16 | 16 | 16 | 15 | 15 |
| I |  | 17 | 17 | 17 | 16 | 16 |
| ViII |  | 18 | 18 | 18 | 17 | 17 |
| IX |  | 19 | 19 | 19 | 18 | 18 |
| X |  | 20 | 20 | 20 | 19 | 19 |
| XI |  | 21 | 21 | 21 | 20 | 20 |
| XII |  | 22 | 22 | 22 | 21 | 21 |
| XIII |  | 23 | 23 | 23 | 22 | 22 |
| XIV |  | 24 | VE 24 | 24 | 23 | 23 |
| XV | 25/1 | 25 | 25 | 25 | 24 | 24 |
| XVI | 26 | 26 | 26 | 26 | 25 | 25 |
| XVII | 27 | 27 | 27 | 27 | 26 | SS 26 |
| XVIII | 28 | 28 | 28 | 28 0 | $27 \quad 0$ | 27 |
| XIX | 29 | $29 \quad 0$ | 29 | 29 | 28 | 28 |
| XX | 30 | 1/3 | $30 \quad 0$ | 30 | 29 | 29 |
| XXI | 31 | 2 | 31 | 1/5 | 30 | 30 |
| XXII | 1/2 | 3 | 1/4 | 2 | 31 | 1/7 |
| XXIII | 2 | 4 | 2 | 3 | 1/6 | 2 |
| XXIV | 3 | 5 | 3 | 4 | 2 | 3 |
| XXV | 4 | 6 | 4 | 5 | 3 | 4 |
| XXVI | 5 | 7 | 5 | 6 | 4 | 5 |
| XXVII | 6 | 8 | 6 | 7 | 5 | 6 |
| XXVIII | 7 | 9 | 7 | 8 | 6 | 7 |
| XXIX | 8 | 10 | 8 | 9 | 7 | 8 |
| XXX | 9 |  | 9 |  | 8 |  |
| XXXI | 10 |  | 10 |  | 9 |  |

C201 Consuls: Cn. Cornelius Lentulus, P. Aelius Paetus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 201 | 201 | 201 | 201 | 201 | 201 | 201/200 |
| 1 | $9 / 7$ | 7/8 | 7/9 | 6/10 | 4/11 | 3/12 | 31/12 |
| II | 10 | 8 | 8 • | 7 | 5 | 4 | 1/1/200 |
| III | 11 - | 9 | 9 |  | 6 - | 5 | 2 |
| IV | 12 | 10 • | 10 | 9 | 7 | 6 | 3 |
| V | 13 | 11 | 11 | 10 | 8 | 7 | 4 |
| VI | 14 | 12 | 12 | 11 | 9 | 8 | 5 |
| VII | 15 | 13 | 13 | 12 | 10 | 9 | 6 |
| VIII | 16 | 14 | 14 | 13 | 11 | 10 | 7 |
| IX | 17 | 15 | 15 | 14 | 12 | 11 | 8 |
| X | 18 | 16 | 16 | 15 | 13 | 12 | 9 |
| XI | 19 | 17 | 17 | 16 | 14 | 13 | 10 |
| XII | 20 | 18 | 18 | 17 | 15 | 14 | 11 |
| XIII | 21 | 19 | 19 | 18 | 16 | 15 | 12 |
| XIV | 22 | 20 | 20 | 19 | 17 | 16 | 13 |
| XV | 23 | 21 | 21 | 20 | 18 | 17 |  |
| XVI | 24 | 22 | 220 | 21 | 19 | 18 |  |
| XVII | 250 | 23 | 23 | 22 | 20 | 19 |  |
| XVIII | 26 | 24 - | 24 | 23 | 210 | 20 |  |
| XIX | 27 | 25 | 25 | 24 | 22 | 21 |  |
| XX | 28 | 26 | AE 26 | 25 | 23 | 22 |  |
| XXI | 29 | 27 | 27 | 26 | 24 | 23 |  |
| XXII | 30 | 28 | 28 | 27 | 25 | ws 24 |  |
| XXIII | 31 | 29 | 29 | 28 | 26 | 25 |  |
| XXIV | 1/8 | 30 | 30 | $2{ }^{\text {C }}$ | 27 | 26 |  |
| XXV | 2 | 31 | 1/10 | 30 | 28 | 27 |  |
| XXVI | 3 | 1/9 | 2 | 31 | 29 | 28 |  |
| XXVII | 4 | 2 | 3 | 1/11 | 30 | 29 |  |
| XXVIII | 5 | 3 | 4 | 2 | 1/12 | 30 |  |
| XXIX | 6 | 4 | 5 | 3 | 2 |  |  |
| XXX |  | 5 |  |  |  |  |  |
| XXXI |  | 6 |  |  | \% |  |  |

C200 Consuls: P. Sulpicius Galba, C. Aurelius Cotta

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 200 | 200 | 200 | 200 | 200 | 200 |
| I |  | 31/1 | 1/3 | 1/4 | 30/4 | $31 / 5$ |
| II |  | 1/2 | 2 | 2 | $1 / 5$ | 1/6 |
| III |  | 2 | 3 | 3 | 2 | 2 |
| IV |  | 3 |  | 4 | 3 | 3 |
| V |  | 4 | 5 | 5 | 4 | 4 |
| VI |  | 5 | 6 | 6 | 5 | 5 |
| VII |  | 6 | 7 | 7 | 6 | 6 |
| VIII |  | 7 | 8 | 8 | 7 | 7 |
| IX |  | 8 | 9 | 9 | 8 | 8 |
| X |  | 9 | 10 | 10 | 9 | 9 |
| XI |  | 10 | 11 | 11 | 10 | 10 |
| XII |  | 11 | 12 | 12 | 11 | 11 |
| XIII |  | 12 | 13 | 13 | 12 | 12 |
| XIV |  | 13 | 14 | 14 | 13 | 13 |
| XV | 14/1 | 14 | 15 | 15 | 14 | 14 |
| XVI | 15 | 15 | 16 | 16 | 15 | 15 |
| XVII | 15 | 16 | 17 | 17 | 16 | 16 |
| XVIII | 17 | 17 | 18 | 18 | 17 | 17 |
| XIX | 18 | 18 |  | 19 | 18 | 18 |
| XX | 19 | 19 | 20 | 20 | 19 | 19 |
| XXI | 20 | 20 | 2.1 | 21 | 20 | 20 |
| XXII | 21 | 21 | 22 | 22 | 21 | 21 |
| XXIII | 22 | 22 | 23 | 23 | 22 | 22 |
| XXIV | 23 | 23 | vE 24 | 24 | 23 | 23 |
| XXV | 24 | 24 | 25 | 25 | 24 | 24 |
| XXVI | 25 | 25 | 26 | 26 | 25 | 25 |
| XXVII | 26 | 26 | 27 | 27 | 26 | ss 26 |
| XXVIII | 27 | 27 | 28 | 28 | 27 | 27 |
| XXIX | 28 | 28 | 29 | 29 | 28 | 28 |
| XXX | 29 |  | 30 |  | 29 |  |
| XXXI | 30 |  | 31 |  | 30 |  |

C200 Consuls: P. Sulpicius Galba, C. Aurelius Cotta

|  | SEP | OCT | NOV | DEC | JAN | FEB ${ }^{\text {- }}$ | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 200 | 200 | 200 | 200 | 200 | 200 | 200/199 |
| I | $29 / 6$ | 28/7 | 28/8 ${ }^{\circ}$ | AE 26/9 | 25/10 | 23/11 | 21/12 |
| II | 30 • | 29 | 29 | 27 - | 26 | 24 | 22 |
| III | 1/7 | 30 - | 30 | 28 | 27 - | 25 - | 23 |
| IV | 2 | 31 | 31 | 29 | 28 | 26 | ws 24 |
| V | 3 | 1/8 | 1/9 | 30 | 29 | 27 | 25 - |
| VI | 4 | 2 | 2 | 1/10 | 30 | 28 | 26 |
| VII | 5 | 3 | 3 | 2 | 31 | 29 | 27 |
| VIII | 6 | 4 | 4 | 3 | 1/11 | 30 | 28 |
| IS | 7 | 5 | 5 | 4 | 2 | 1/12 | 29 |
| X | 8 | 6 | 6 | 5 | 3 | 2 | 30 |
| XI | 9 | 7 | 7 | 6 | 4 | 3 | 31 |
| XII | 10 | 8 | 8 | 7 | 5 | 4 | 1/1/199 |
| XIII | 11 | 9 | 9 | 8 | 6 | 5 | 2 |
| XIV | 12 | 10 | 10 | 9 | 7 | 6 | 3 |
| XV | 13 | 11 | 110 | 10 | 8 | 7 |  |
| XVI | 14 | 12 | 12 | 110 | 9 | 8 |  |
| XVII | $15 \bigcirc$ | 130 | 13 | 12 | $10 \quad \circ$ | 90 |  |
| XVIII | 16 | 14 | 14 | 13 | 11 | 10 |  |
| XIX | 17 | 15 | 15 | 14 | 12 | 11 |  |
| XX | 18 | 16 | 16 | 15 | 13 | 12 |  |
| XXI | 19 | 17 | 17 | 16 | 14 | 13 |  |
| XXII | 20 | 18 | 18 | 17 | 15 | 14 |  |
| XXIlI | 21 | 19 | 19 | 18 | 16 | 15 |  |
| XXIV | 22 | 20 | 20 | 19 | 17 | 16 |  |
| XXV | 23 | 21 | 21 | 20 | 18 | 17 |  |
| XXVI | 24 | 22 | 22 | 21 | 19 | 18 |  |
| XXVII | 25 | 23 | 23 | 22 | 20 | 19 |  |
| XXVIII | 26 | 24 | 24 | 23 | 21 | 20 |  |
| XXIY. | 27 | 25 | 25 | 24 | 22 |  |  |
| XXX | - | 26 |  |  | \% |  |  |
| XXXI | , | 27 |  |  |  |  |  |

C199 Consuls: L. Cornelius Lentulus, P. Villius Tappulus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 199 | 199 | 199 | 199 | 199 | 199 |
| I |  | 21/1 | 19/2 | 22/3 | 2C/4 | 21/5 |
| II |  | 22 | 20 | 23 | 21 | 22 |
| III |  | 23 | 21 - | vE 24 | 22 | 23 |
| IV |  | 24 | 22 | 25 | 23 | 24 |
| V |  | 25 | 23 | 26 | 24 | 25 |
| VI |  | 26 | 24 | 27 | 25 | 26 |
| VII |  | 27 | 25 | 28 | 26 | 27 |
| VIII |  | 28 | 26 | 29 | 27 | 28 |
| IX |  | 29 | 27 | 30 | 28 | 29 |
| X |  | 30 | 28 | 31 | 29 | 30 |
| XI |  | 31 | 1/3 | 1/4 | 30 | 31 |
| XIII |  | 1/2 | 2 | 2 | $1 / 5$ | 1/6 |
| XIII |  | 2 | 3 | 3 | 2 | 2 |
| XIV |  | 3 | 4 | 4 | 3 | 3 |
| XV | 4/1 | 4 | 5 | 5 | 4 | 4 |
| XVI | 5 | 5 | 6 | 6 | 5 | 5 |
| XVII | 6 | 6 | 7 | 7 | 6 | 6 |
| XVIII | 7 | 7 | 8 | 8 | 7 | 7 |
| XIX | $8 \quad 0$ | 8 | $9 \bigcirc$ | 9 | 8 | 8 |
| XX | 9 | 9 | 10 | 10 | 9 | 9 |
| XXI | 10 | 10 | 11 | 11 | 10 | 10 |
| XXII | 11 | 11 | 12 | 12 | 11 | 11 |
| XXIII | 12 | 12 | 13 | 13 | 12 | 12 |
| XXIV | 13 | 13 | 14 | 14 | 13 | 13 |
| XXV | 14 | 14 | 15 | 15 | 14 | 14 |
| XXVI | 15 | 15 | 16 | 16 | 15 | 15 |
| XXVII | 16 | 16 | 17 | 17 | 16 | 16 |
| XXVIII | 17 | 17 | 18 | 18 | 17 | 17 |
| XXIX | 18 | 18 | 19 | 19 | 18 | 18 |
| XXX | 19 |  | 20 |  | 19 |  |
| XXXI | 20 |  | 21 |  | 20 |  |

C199 Consuls: L. Cornelius Lentulus, P. Villius Tappulus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 199 | 199 | 199 | 199 | 199 | 199 | 199 |
| I | $19 / 6$ - | 18/7 | 18/8 | 16/9 - | 15/10 | 13/11 | 11/12 |
| II | 20 | 19 - | 19 | 17 | 16 - | 14 | 12 |
| III | 21 | 20 | 20 | 18 | 17 | 15 - | 13 |
| IV | 22 | 21 | 21 | 19 | 18 | 16 | 14 |
| V | 23 | 22 | 22 | 20 | 19 | 17 | 15 |
| VI | 24 | 23 | 23 | 21 | 20 | 18 | 16 |
| VII | 25 | 24 | 24 | 22 | 21 | 19 | 17 |
| VIII | SS 26 | 25 | 25 | 23 | 22 | 20 | 18 |
| IX | 27 | 26 | 26 | 24 | 23 | 21 | 19 |
| X | 28 | 27 | 27 | 25 | 24 | 22 | 20 |
| XI | 29 | 28 | 28 | 26 | 25 | 23 | 21 |
| XII | 30 | 29 | 29 | AE 27 | 26 | 24 | 22 |
| XIII | 1/7 | 30 | 30 | 28 | 27 | 25 | 23 |
| XIV | 2 | 31 | 31 | 29 | 28 | 26 | ws 24 |
| XV | 3 | 1/8 | 1/9 0 | 30 | 29 | 27 |  |
| XVI | 40 | 2 | 2 | 1/10 0 | $30 \quad 0$ | 28 |  |
| XVII | 5 | 30 | 3 | 2 | 31 | $29 \quad 0$ |  |
| XVIII | 6 | 4 | 4 | 3 | 1/11 | 30 |  |
| XIX | 7 | 5 | 5 | 4 | 2 | 1/12 |  |
| XX | 8 | 6 | 6 | 5 | 3 | 2 |  |
| XXI | 9 | 7 | 7 | 6 | 4 | 3 |  |
| XXII | 10 | 8 | 8 | 7 | 5 | 4 |  |
| XXIII | 11 | 9 | 9 | 8 | 6 | 5 |  |
| XXIV | 12 | 10 | 10 | 9 | 7 | 6 |  |
| XXV | 13 | 11 | 11 | 10 | 8 | 7 |  |
| XXVI | 14 | 12 | 12 | 11 | 9 | 8 |  |
| XXVII | 15 | 13 | 13 | 12 | 10 | 9 |  |
| XXVIII | 16 | 14 | 14 | 13 | 11 | 10 |  |
| XXIX | 17 | 15 | 15 | 14 | 12 |  |  |
| XXX |  | 16 |  | \% |  |  |  |
| XXXI |  | 17 | $\square$ |  |  |  |  |

C198 Consuls: Sex. Aelius Paetus Catus, T. Quinctius Flamininus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 199/8 | 198 | 198 | 198 | 198 | 198 |
| I |  | 11/1 | $9 / 2$ | 12/3 | 10/4 | 11/5 |
| II |  | 12 | 10 | 13 | 11 - | 12 |
| III |  | 13 - | 11 - | 14 | 12 | 13 |
| IV |  | 14 | 12 | 15 | 13 | 14 |
| V |  | 15 | 13 | 16 | 14 | 15 |
| VI |  | 16 | 14 | 17 | 15 | 16 |
| VII |  | 17 | 15 | 18 | 16 | 17 |
| VIII |  | 18 | 16 | 19 | 17 | 18 |
| IX |  | 19 | 17 | 20 | 18 | 19 |
| X |  | 20 | 18 | 21. | 19 | 20 |
| XI |  | 21 | 19 | 22 | 20 | 21 |
| XII |  | 22 | 20 | 23 | 21 | 22 |
| XIII |  | 23 | 21 | VE 24 | 22 | 23 |
| XIV |  | 24 | 22 | 25 | 23 | 24 |
| XV | 25/12 | 25 | 23 | 26 | 24 | 25 |
| XVI | 26 | 26 | 24 | 27 | 25 | 26 |
| XVII | 27 | $27 \quad 0$ | 25 | 28 ○ | 26 ○ | 27 |
| XVIII | $28 \quad 0$ | 28 | 26 - | 29 | 27 | 28 |
| XIX | 29 | 29 | 27 | 30 | 28 | 29 |
| XX | 30 | 30 | 28 | 31 | 29 | 30 |
| XXI | 31 | 31 | 1/3 | 1/4 | 30 | 31 |
| XXII | 1/1/198 | 1/2 | 2 | 2 | 1/5 | 1/6 |
| XXIII | 2 | 2 | 3 | 3 | 2 | 2 |
| XXIV | 3 | 3 | 4 | 4 | 3 | 3 |
| XXV | 4 | 4 | 5 | 5 | 4 | 4 |
| XXVI | 5 | 5 | 6 | 6 | 5 | 5 |
| XXVII | 6 | 6 | 7 | 7 | 6 | 6 |
| XXVIII | 7 | 7 | 8 | 8 | 7 | 7 |
| XXIX | 8 | 8 | 9 | 9 | 8 | 8 |
| XXX | 9 |  | 10 |  | 9 |  |
| XXXI | 10 |  | 11 |  | 10 - |  |

C198 Consuls: Sex. Aelius Paetus Catus, T. Quinctius Flamininus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 198 | 198 | 198 | 198 | 198 | 198 | 198 |
| 1 | 9/6 | 8/7 | 8/8 | 6/9 | 5/10 | 3/11 | 1/12 |
| II | 10 | 9 | 9 | 7 | 6 | 4 - | 2 |
| III | 11 | 10 | 10 | 8 | 7 | 5 | 3 |
| IV | 12 | 11 | 11 | 9 | 8 | 6 | 4 |
| V | 13 | 12 | 12 | 10 | 9 | 7 | 5 |
| VI | 14 | 13 | 13 | 11 | 10 | 8 | 6 |
| VII | 15 | 14 | 14 | 12 | 11 | 9 | 7 |
| VIII | 16 | 15 | 15 | 13 | 12 | 10 | 8 |
| IX | 17 | 16 | 16 | 14 | 13 | 11 | 9 |
| X | 18 | 17 | 17 | 15 | 14 | 12 | 10 |
| XI | 19 | 18 | 18 | 16 | 15 | 13 | 11 |
| XII | 20 | 19 | 19 | . 17 | 16 | 14 | 12 |
| XIII | 21 | 20 | 20 | 18 | 17 | 15 | 13 |
| XIV | 22 | 21 | 21 | 19 | 18 | 16 | 14 |
| XV | 23 | 22 | 220 | 20 ○ | 19 | 17 |  |
| XVI | $24 \bigcirc$ | 230 | 23 | 21 | 20 ○ | 18 |  |
| XVII | 25 | 24 | 24 | 22 | 21 | 19 |  |
| XVIII | SS 26 | 25 | 25 | 23 | 22 | 20 |  |
| XIX | 27 | 26 | 26 | 24 | 23 | 21 |  |
| XX | 28 | 27 | AE 27 | 25 | 24 | 22 |  |
| XXI | 29 | 28 | 28 | 26 | 25 | 23 |  |
| XXII | 30 | 29 | 29 | 27 | 26 | 24 |  |
| XXIII | 1/7 | 30 | 30 | 28 | 27 | 25 |  |
| XXIV | 2 | 31 | 31 | 29 | 28 | 26 |  |
| XXV | 3 | 1/8 | 1/9 | 30 | 29 | 27 |  |
| XXVI | 4 | 2 | 2 | 1/10 | 30 | 28 |  |
| XXVII | 5 | 3 | 3 | 2 | 31 | 29 |  |
| XXVIII | 6 | 4 | 4 | 3 | 1/11 | 30 |  |
| XXIX | 7 | 5 | 5 • | 4 | 2 |  |  |
| XXX | , | 6 | \% | \% |  | 亿 |  |
| XXXI |  | 7 - |  | \% |  |  |  |

C197 Consuls: C. Cornelius Cethegus, Q. Minucius Rufus

|  | MAR | APR | MAI | JUN | QUl | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 198 | 197 | 197 | 197 | 197. | 197 |
| I |  | 1/1/197 | 30/1 | 1/3 | 30/3 - | 30/4 |
| II |  | 2 - | 31 | 2 | 31 | 1/5 |
| III |  | 3 | 1/2 • | 3 | 1/4 | 2 |
| IV |  | 4 | 2 | 4 | 2 | 3 |
| V |  | 5 | 3 | 5 | 3 | 4 |
| VI |  | 6 | 4 | 6 | 4 | 5 |
| VII |  | 7 | 5 | 7 | 5 | 6 |
| VIII |  | 8 | 6 | 8 | 6 | 7 |
| IX |  | 9 | 7 | 9 | 7 | 8 |
| X |  | 10 | 8 | 10 | 8 | 9 |
| XI |  | 11 | 9 | 11 | 9 | 10 |
| XII |  | 12 | 10 | 12 | 10 | 11 |
| XIII |  | 13 | 11 | 13 | 11 | 12 |
| XIV |  | 14 | 12 | 14 | 12 | 13 |
| XV | 15/12 | 15 | 13 | 15 | 13 | 14 |
| XVI | 16 | $16 \bigcirc$ | 14 | 16 | $14 \quad 0$ | 15 |
| XVII | 17 | 17 | 150 | 17 | 15 | 16 |
| XVIII | 18 ○ | 18 | 16 | 18 | 16 | 17 |
| XIX | 19 | 19 | 17 | 19 | 17 | 18 |
| XX | 20 | 20 | 18 | 20 | 18 | 19 |
| XXI | 21 | 21 | 19 | 21 | 19 | 20 |
| XXII | 22 | 22 | 20 | 22 | 20 | 21 |
| XXIII | 23 | 23 | 21 | 23 | 21 | 22 |
| XXIV | ws 24 | 24 | 22 | VE 24 | 22 | 23 |
| XXV | 25 | 25 | 23 | 25 | 23 | 24 |
| XXVI | 26 | 26 | 24 | 26 | 24 | 25 |
| XXVII | 27 | 27 | 25 | 27 | 25 | 26 |
| XXVIII | 28 | 28 | 26 | 28 | $? 6$ | 27 |
| XXIX | 29 | 29 | 27 | 29 | 27 | 28 |
| XXX | 30 |  | 28 |  | 28 |  |
| XXXI | 31 |  | 29 |  | 29 - |  |

C197 Consuls: C. Cornelius Cethegus, Q. Minucius Rufus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 197 | 197 | 197 | 197 | 197 | 197 | 197 |
| I | $29 / 5$ | $27 / 6$ | 28/7 | $26 / 8$ | 24/9 | 23/10 | 20/11 |
| II | 30 | 28 | 29 | 27 | 25 | 24 | 21 |
| III | 31 | 29 | 30 | 28 | AE 26 | 25 | 22 |
| IV | 1/6 | 30 | 31 | 29 | 27 | 26 | 23 |
| V | 2 | 1/7 | 1/8 | 30 | 28 | 27 | 24 |
| VI | 3 | 2 | 2 | 31 | 29 | 28 | 25 |
| VII | 4 | 3 | 3 | 1/9 | 30 | 29 | 26 |
| VIII | 5 | 4 | 4 | 2 | 1/10 | 30 | 27 |
| IX | 6 | 5 | 5 | 3 | 2 | 31 | 28 |
| X | 7 | 6 | 6 | 4 | 3 | 1/11 | 29 |
| XI | 8 | 7 | 7 | 5 | 4 | 2 | 30 |
| XII | 9 | 8 | 8 | 6 | 5 | 3 | 1/12 |
| XIII | 10 | 9 | 9 | 7 | 6 | 4 | 2 |
| XIV | 11 | 10 | $10 \bigcirc$ | 8 | 7 | 5 | 3 |
| XV | 12 ○ | 11 | 11 | 9 | 8 | 6 |  |
| XVI | 13 | 120 | 12 | 10 | 9 | $7 \quad 0$ |  |
| XVII | 14 | 13 | 13 | 11 | 10 | 8 |  |
| XVIII | 15 | 14 | 14 | 12 | 11 | 9 |  |
| XIX | 16 | 15 | 15 | 13 | 12 | 10 |  |
| XX | 17 | 16 | 16 | 14 | 13 | 11 |  |
| XXI | 18 | 17 | 17 | 15 | 14 | 12 |  |
| XXII | 19 | 18 | 18 | 16 | 15 | 13 |  |
| XXIII | 20 | 19 | 19 | 17 | 16 | 14 |  |
| XXIV | 21 | 20 | 20 | 18 | 17 | 15 |  |
| XXV | 22 | 21 | 21 | 19 | 18 | 16 |  |
| XXVI | 23 | 22 | 22 | 20 | 19 | 17 |  |
| XXVII | 24 | 23 | 23 | 21 | 20 | 18 |  |
| XXVIII | 25 | 24 | 24. | 22 | 21 | 19 |  |
| XXIX | ss 26 • | 25 | 25 | 23 | 22 |  |  |
| XXX |  |  |  |  |  |  |  |
| XXXI |  | 27 |  |  |  |  |  |

C196 Consuls: L. Furius Purpurio, M. Claudius Marcellus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 197 | $197 / 6$ | 196 | 196 | 196 | 196 |
| I |  | 21/12 | 19/1 | 19/2 | 20/3 - | 20/4 |
| II |  | 22 | 20 - | 20 | 21 | 21 |
| III |  | 23 | 21 | 21 | 22 | 22 |
| IV |  | ws 24 | 22 | 22 | 23 | 23 |
| V |  | 25 | 23 | 23 | VE 24 | 24 |
| VI |  | 26 | 24 | 24 | 25 | 25 |
| VII |  | 27 | 25 | 25 | 26 | 26 |
| VIII |  | 28 | 26 | 26 | 27 | 27 |
| IX |  | 29 | 27 | 27 | 28 | 28 |
| X |  | 30 | 28 | 28 | 29 | 29 |
| XI |  | 31 | 29 | 1/3 | 30 | 30 |
| XII |  | 1/1/196 | 30 | 2 | 31 | 1/5 |
| XIII |  | 2 | 31 | 3 | 1/4 | 2 |
| XIV |  | 3 | 1/2 | 4 | 2 | 30 |
| XV | 4/12 | 4 | 2 | 50 | 30 | 4 |
| XVI | 5 | $5 \quad 0$ | 30 | 6 | 4 | 5 |
| XVII | 60 | 6 | 4 | 7 | 5 | 6 |
| XVIII | 7 | 7 | 5 | 8 | 6 | 7 |
| XIX | 8 | 8 | 6 | 9 | 7 | 8 |
| XX | 9 | 9 | 7 | 10 | 8 | 9 |
| XXI | 10 | 10 | 8 | 11 | 9 | 10 |
| XXII | 11 | 11 | 9 | 12 | 10 | 11 |
| XXIII | 12 | 12 | 10 | 13 | 11 | 12 |
| XXIV | 13 | 13 | 11 | 14 | 12 | 13 |
| XXV | 14 | 14 | 12 | 15 | 13 | 14 |
| XXVI | 15 | 15 | 13 | 16 | 14 | 15 |
| XXVII | 16 | 16 | 14 | 17 | 15 | 16 |
| XXVIII | 17 | 17 | 15 | 18 | 16 | 17 |
| XXIX | 18 | 18 | 16 | 19 | 17 | $18 \quad \bullet$ |
| XXX | 19 | - | 17 |  | $18 \quad \bullet$ |  |
| XXXI | 20 | - | 18 | $\bigcirc$ | 19 |  |

C196 Consuls: L. Furius Purpurio, M. Claudius Marcellus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 196 | 196 | 196 | 196 | 196 | 196 | 196 |
| I | $19 / 5$ | 17/6 | 18/7 | 16/8 | 14/9 | 13/10 | 10/11 |
| II | 20 | 18 | 19 | 17 | 15 | 14 | 11 |
| III | 21 | 19 | 20 | 18 | 16 | 15 | 12 |
| IV | 22 | 20 | 21 | 19 | 17 | 16 | 13 |
| V | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| VI | 24 | 22 | 23 | 21 | 19 | 18 | 15 |
| VII | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| VIII | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| IX | 27 | 25 | 26 | 24 | 22 | 21 | 18 |
| X | 28 | ss 26 | 27 | 25 | 23 | 22 | 19 |
| XI | 29 | 27 | 28 | 26 | 24 | 23 | 20 |
| XII | 30 | 28 | 29 | 27 | 25 | 24 | 21 |
| XIII | 31 | 29 | 30 | 28 | AE 26 | 25 | 22 |
| XIV | 1/6 0 | 30 | 310 | 29 ○ | - 27 | 26 | 23 |
| XV | 2 | 1/7 $\circ$ | 1/8 | 30 | 28 | 27 |  |
| XVI | 3 | 2 | 2 | 31 | 29 | 28 |  |
| XVII | 4 | 3 | 3 | 1/9 | 30 | 29 |  |
| XVIII | 5 | 4 | 4 | 2 | 1/10 | 30 |  |
| XIX | 6 | 5 | 5 | 3 | 2 | 31 |  |
| XX | 7 | 6 | 6 | 4 | 3 | 1/11 |  |
| XXI | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XXII | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XXIII | 10 | 9 | 9 | 7 | 6 | 4 |  |
| XXIV | 11 | 10 | 10 | 8 | 7 | 5 |  |
| XXV | 12 | 11 | 11 | 9 | 8 | 6 |  |
| XXVI | 13 | 12 | 12 | 10 | 9 | 7 |  |
| XXVII | 14 | 13 | 13 | 11 | 10 | 8 |  |
| XXVIII | 15 | 14 | $14 \cdot$ | 12 | 11 | 9 |  |
| XXIX | 16 • | 15 • | 15 | 13 | 12 |  |  |
| XXX |  | 16 |  |  |  |  |  |
| XXXI |  | 17 |  |  |  |  |  |

C195 Consuls: L. Valerius Flaccus, M. Porcius Cato

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 196 | $196 / 5$ | 195 | 195 | 195 | 195 |
| I |  | 11/12 | 9/1 | $9 / 2$ | 10/3 | 10/4 |
| II |  | 12 | 10 | 10 | 11 | 11 |
| III |  | 13 | 11 | 11 | 12 | 12 |
| IV |  | 14 | 12 | 12 | 13 | 13 |
| V |  | 15 | 13 | 13 | 14 | 14 |
| VI |  | 16 | 14 | 14 | 15 | 15 |
| VII |  | 17 | 15 | 15 | 16 | 16 |
| VIII |  | 18 | 16 | 16 | 17 | 17 |
| IX |  | 19 | 17 | 17 | 18 | 18 |
| X |  | 20 | 18 | 18 | 19 | 19 |
| XI |  | 21 | 19 | 19 | 20 | 20 |
| XII |  | 22 | 20 | 20 | 21 | 21 |
| XIII |  | 23 | 21 | 21 | 22 | 22 |
| XIV |  | ws 24 | 22 | 22 | 23 | 23 |
| XV | 24/11 | 250 | 23 | 23 | VE $24 \quad 0$ | 24 |
| XVI | 25 | 26 | 24 ○ | 24 | 25 | 25 |
| XVII | 260 | 27 | 25 | 25 | 26 | 26 |
| XVIII | 27 | 28 | 26 | 26 | 27 | 27 |
| XIX | 28 | 29 | 27 | 27 | 28 | 28 |
| XX | 29 | 30 | 28 | 28 | 29 | 29 |
| XXI | 30 | 31 | 29 | 1/3 | 30 | 30 |
| XXII | 1/12 | 1/1/195 | 30 | 2 | 31 | $1 / 5$ |
| XXIII | 2 | 2 | 31 | 3 | 1/4 | 2 |
| XXIV | 3 | 3 | 1/2 | 4 | 2 | 3 |
| XXV | 4 | 4 | 2 | 5 | 3 | 4 |
| XXVI | 5 | 5 | 3 | 6 | 4 | 5 |
| XXVII | 6 | 6 | 4 | 7 | 5 | 6 |
| XXVill | 7 | 7 | 5 | 8 | 6 | 7 |
| XXIX | 8 | 8 | 6 | 9 | 7 | 8 |
| XXX | 9 |  | 7 |  | $8 \quad$ - |  |
| XXXI | 10 - |  | 8 - |  | 9 |  |

C195 Consuls: L. Valerius Flaccus, M. Porcius Cato

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 195 | 195 | 195 | 195 | 195 | 195 | 195 |
| I | $9 / 5$ | $7 / 6$ | $8 / 7$ | 6/8 | 4/9 | 3/10 | 31/10 |
| II | 10 | 8 | 9 | 7 | 5 | 4 | 1/11 |
| III | 11 | 9 | 10 | 8 | 6 | 5 | 2 |
| IV | 12 | 10 | 11 | 9 | 7 | 6 | 3 |
| V | 13 | 11 | 12 | 10 | 8 | 7 | 4 |
| VI | 14 | 12 | 13 | 11 | 9 | 8 | 5 |
| VII | 15 | 13 | 14 | 12 | 10 | 9 | 6 |
| VIII | 16 | 14 | 15 | 13 | 11 | 10 | 7 |
| IX | 17 | 15 | 16 | 14 | 12 | 11. | 8 |
| X | 18 | 16 | 17 | 15 | 13 | 12 | 9 |
| XI | 19 | 17 | 18 | 16 | 14 | 13 | 10 |
| XII | 20 | 18 | 19 | 17 | 15 | 14 | 11 |
| XIII | 21 | 19 | 20 - | $18 \quad 0$ | 16 | 15 | 12 |
| XIV | $22 \bigcirc$ | 200 | 21 | 19 | $17 \quad 0$ | 16 | 13 |
| XV | 23 | 21 | 22 | 20 | 18 | 17 |  |
| XVI | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XVII | 25 | 23 | 24 | 22 | 20 | 19 |  |
| XVIII | 26 | 24 | 25 | 23 | 21 | 20 |  |
| XIX | 27 | 25 | 26 | 24 | 22 | 21 |  |
| XX | 28 | Ss 26 | 27 | 25 | 23 | 22 |  |
| XXI | 29 | 27 | 28 | 26 | 24 | 23 |  |
| XXII | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XXIII | 31 | 29 | 30 | 28 | AE 26 | 25 |  |
| XXIV | 1/6 | 30 | 31 | 29 | 27 | 26 |  |
| XXV | 2 | 1/7 | 1/8 | 30 | 28 | 27 |  |
| XXVI | 3 | 2 | 2. | 31 | 29 | 28 |  |
| XXVII | 4 | 3 | 3 - | 1/9 | 30 | 29 |  |
| XXVIII | 5 | 4 | 4 | 2 - | $1 / 10$ • | 30 |  |
| XXIX | 6 • | $5 \bullet$ | 5 | 3 | 2 |  |  |
| XXX | \% | 6 |  | $\because \because$ |  | : |  |
| XXXI |  | 7 |  | , | $\because \times$ |  |  |

C194 Consuls: P. Cornelius Scipio Africanus, Ti. Sempronius Longus


C194 Consuls: P. Cornelius Scipio Africanus, Ti. Sempronius Longus

|  | SEP | OCT | NOV | DEC | J/AN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 194 | 194 | 194 | 194 | 194 | 194 | 194 |
| I | 29/4 | $28 / 5$ | 28/6 | 27/7 | 25/8 | 23/9 | 21/10 |
| II | 30 | 29 | 29 | 28 | 26 | 24 | 22 |
| III | 1/5 | 30 | 30 | 29 | 27 | 25 | 23 |
| IV | 2 | 31 | 1/7 | 30 | 28 | 26 | 24 |
| V | 3 | 1/6 | 2 | 31 | 29 | AE 27 | 25 |
| VI | 4 | 2 | 3 | 1/8 | 30 | 28 | 26 |
| VII | 5. | 3 | 4 | 2 | 31 | 29 | 27 |
| VIII | 6 | 4 | 5 | 3 | 1/9 | 30 | 28 |
| IX | 7 | 5 | 6 | 4 | 2 | 1/10 | 29 |
| X | 8 | 6 | 7 | 5 | 3 | 2 | 30 |
| XI | 9 | 7 | 8 | 6 | 4 | 3 | 31 |
| XII | 10 | 8 | 9 - | . 7 | 5 | 4 | 1/11 |
| XIII | $11 \bigcirc$ | 90 | 10 | 8 | 6 | 5 | 2 |
| XIV | 12 | 10 | 11 | 9 | 7 | 6 | 3 |
| XV | 13 | 11 | 12 | 10 | 8 | 7 |  |
| XVI | 14 | 12 | 13 | 11 | 9 | 8 |  |
| XVII | 15 | 13 | 14 | 12 | 10 | 9 |  |
| XVIII | 16 | 14 | 15 | 13 | 11 | 10 |  |
| XIX | 17 | 15 | 16 | 14 | 12 | 11 |  |
| XX | 18 | 16 | 17 | 15 | 13 | 12 |  |
| XXI | 19 | 17 | 18 | 16 | 14 | 13 |  |
| XXII | 20 | 18 | 19 | 17 | 15 | 14 |  |
| XXIII | 21 | 19 | 20 | 18 | 16 | 15 |  |
| XXIV | 22 | 20 | 21 | 19 | 17 | 16 |  |
| XXV | 23 | 21 | 22 | 20 | 18 | 17 |  |
| XXVI | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XXVII | 25 | 23 | 24 - | 22 | 20 | 19 |  |
| XXVIII | 26 - | 24 | 25 | 23 | 21 | 20 |  |
| XXIX | 27 | 25 - | 26 | 24 | 22 | ! |  |
| XXX |  | SS 26 |  |  |  |  |  |
| XXXI |  | 27 |  |  |  |  |  |

C193 Consuls: L. Cornelius Merula, Q. Minucius Thermus

|  | MAR | APR | MAI | JUN | QUl | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 194 | 194 | 194/3 | 193 | 193 | 193 | 193 |
| I |  | 21/11 | 20/12 | 20/1 | 18/2 | 20/3 | 18/4 |
| II |  | 22 | 21 | 21 | 19 | 21 | 19 |
| III |  | 23 | 22 | 22 | 20 | 22 | 20 |
| IV |  | 24 | 23 | 23 | 21 | 23 | 21 |
| V |  | 25 | ws 24 | 24 | 22 | VE 24 | 22 |
| VI |  | 26 | 25 | 25 | 23 | 25 | 23 |
| VII | . | 27 | 26 | 26 | 24 | 26 | 24 |
| VIII |  | 28 | 27 | 27 | 25 | 27 | 25 |
| IX |  | 29 | 28 | 28 | 26 | 28 | 26 |
| X |  | 30 | 29 | 29 | 27 | - 29 | 27 |
| XI |  | 1/12 | 30 | 30 | 28 | 30 | 28 |
| XII |  | 2 | 31 | 31 | 29 | $31 \quad 0$ | 29 |
| XIII |  | 3 | 1/1/193 | $1 / 2 \quad 0$ | 1/3 | $1 / 4$ | 30 |
| XIV |  | 40 | 2 | 2 | 20 | 2 | $1 / 5$ |
| XV | 4/11 | 5 | 30 | 3 | 3 | 3 | 2 |
| XVI | 50 | 6 | 4 | 4 | 4 | 4 | 3 |
| XVII | 6 | 7 | 5 | 5 | 5 | 5 | 4 |
| XVIII | 7 | 8 | 6 | 6 | 6 | 6 | 5 |
| XIX | 8 | 9 | 7 | 7 | 7 | 7 | 6 |
| XX | 9 | 10 | 8 | 8 | 8 | 8 | 7 |
| XXI | 10 | 11 | 9 | 9 | 9 | 9 | 8 |
| XXII | 11 | 12 | 10 | 10 | 10 | 10 | 9 |
| XXIII | 12 | 13 | 11 | 11 | 11 | 11 | 10 |
| XXIV | 13 | 14 | 12 | 12 | 12 | 12 | 11 |
| XXV | 14 | 15 | 13 | 13 | 13 | 13 | 12 |
| XXVI | 15 | 16 | 14 | 14 | 14 | 14 | 13 |
| XXVII | 16 | 17 | 15 | 15 | 15 | 15 - | 14 |
| XXVIII | 17 | 18 - | 16 | $16 \quad$ | 16 - | 16 | 15 |
| XXIX | 18 | 19 | 17 - | 17 | 17 | 17 | 16 |
| XXX | 19 - |  | 18 |  | 18 |  |  |
| XXXI | 20 |  | 19 |  | 19 |  |  |

C193 Consuls: L. Cornelius Merula, Q. Minucius Thermus

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 193 | 193 | 19: | 193 | 193 | 193 | 193 |
| I | $17 / 5$ | 17/6 | 16/7 | 14/8 | 12/9 | 6/10 | 2/11 |
| II | 18 | 18 | 17 | 15 | 13 | 7 | 3 |
| III | 19 | 19 | 18 | 16 | 14 | 8 | 4 |
| IV | 20 | 20 | 19 | 17 | 15 | 9 - | 5 |
| V | 21 | 21 | 20 | 18 | 16 | 10 | 6 |
| VI | 22 | 22 | 21 | 19 | 17 | 11 | 7 |
| VII | 23 | 23 | 22 | 20 | 18 | 12 | 8 |
| VIII | 24 | 24 | 23 | 21 | 19 | 13 | 9 |
| IX | 25 | 25 | 24 | 22 | 20 | 14 | 10 |
| X | 26 | ss 26 | 25 | 23 | 21 | 15 | 11 |
| XI | 27 | 27 - | 26 | 24 | 22 | 16 | 12 |
| XII | 28 | 28 | 27 ○ | 250 | 23 | 17 | 13 |
| XIII | 290 | 29 | 28 | AE 26 | 24 ○ | 18 | 14 |
| XIV | 30 | 30 | 29 | 27 | 25 | 19 | 15 |
| XV | 31 | 1/7 | 30 | 28 | 26 | 20 |  |
| XVI | 1/6 | 2 | 31 | 29 | 27 | 21 |  |
| XVII | 2 | 3 | 1/8 | 30 | 28. | 22 |  |
| XVIII | 3 | 4 | 2 | 31 | 29 | 23 |  |
| XIX | 4 | 5 | 3 | 1/9 | 30 | 24 ○ |  |
| XX | 5 | 6 | 4 | 2 | 1/10 | 25 |  |
| XXI | 6 | 7 | 5 | 3 | 2 | 26 |  |
| XXII | 7 | 8 | 6 | 4 | 3 | 27 |  |
| XXIII | 8 | 9 | 7 | 5 | 4 | 28 |  |
| XXIV | 9 | 10 | 8 | 6 | 5 | 29 |  |
| XXV | 10 | 11 | 9 | 7 | $\cdots$ | 30 |  |
| XXVI | 11 | 12 | 10 | 8 |  | 31 |  |
| XXVII | 12 | 13 - | 11 - | 9 - |  | 1/11 |  |
| XXVIII | 13 - | 14 | 12 | 10 |  |  |  |
| XXIX | 14 | 15 | 13 | 11 |  |  |  |
| XXX | 15 |  |  |  |  |  |  |
| XXXI | 16 |  |  |  |  |  |  |

C192 Consuls: L. Quinctius Flamininus, Cn. Domitius Ahenobarbus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 193 | 193 | 192 | 192 | 192 | 192 |
| I |  | 3/12 | J/I/192 | 1/2 | 2/3 | 2/4 |
| II |  | 4 | 2 | 2 | 3 | 3 |
| III |  | 5 | 3 | 3 | 4 | 4 - |
| IV |  | 6 | 4 | 4 - | 5 • | 5 |
| V |  | 7 - | $5 \bullet$ | 5 | 6 | 6 |
| VI |  | 8 | 6 | 6 | 7 | 7 |
| VII |  | 9 | 7 | 7 | 8 | 8 |
| VIII |  | 10 | 8 | 8 | 9 | 9 |
| IX |  | 11 | 9 | 9 | 10 | 10 |
| X |  | 12 | 10 | 10 | 11 | 11 |
| XI |  | 13 | 11 | 11 | 12 | 12 |
| XII |  | 14 | 12 | 12 | 13 | 13 |
| XIII |  | 15 | 13 | 13 | - 14 | 14 |
| XIV |  | 16 | 14 | 14 | 15 | 15 |
| XV | 16:11 | 17 | 15 | 15 | 16 | 16 |
| XVI | 17 | 18 | 16 | 16 | 17 | 17 |
| XVII | 18 | 19 | 17 | 17 | 18 | 18 |
| XVIII | 19 | 20 | 18 | 18 | 19 | $19 \quad 0$ |
| XIX | 20 | 21 | 19 | $19 \quad 0$ | 20 | 20 |
| XX | 21 | 22 ○ | 20 | 20 | $21 \quad 0$ | 21 |
| XXI | 22 | 23 | $21 \quad 0$ | 21 | 22 | 22 |
| XXII | $23 \quad 0$ | ws 24 | 22 | 22 | 23 | 23 |
| XXIII | 24 | 25 | 23 | 23 | VE 24 | 24 |
| XXIV | 25 | 26 | 24 | 24 | 25 | 25 |
| XXV | 26 | 27 | 25 | 25 | 26 | 26 |
| XXVI | 27 | 28 | 26 | 26 | 27 | 27 |
| XXVII | 28 | 29 | 27 | 27 | 28 | 28 |
| XXVIII | 29 | 30 | 28 | 28 | 29 | 29 |
| XXIX | 30 | 31 | 29 | 1/3 | 30 | 30 |
| XXX | 1/12 |  | 30 |  | 31 |  |
| XXXI | 2 | त | 31 |  | $1 / 4$ |  |

C192 Consuls: L. Quinctius Flamininus, Cn. Domitius Ahenobarbus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 192 | 192 | 192 | 192 | 192 | 192 | 192 |
| I | 1/5 | $30 / 5$ | 30/6 | 29/7 | $27 / 8$ | 25/9 | 23/10 |
| II | 2 | 31 | 1/7 | 30 | 28 | AE 26 | 24 |
| III | 3 | 1/6 | 2 。 | 31 | 29 | 27 | 25 |
| IV | 4 - | 2 • | 3 | 1/8 - | 30 - | 28 | 26 |
| V | 5 | 3 | 4 | 2 | 31 | 29 - | 27 |
| VI | 6 | 4 | 5 | 3 | 1/9 | 30 | 28 |
| VII | 7 | 5 | 6 | 4 | 2 | 1/10 | 29 |
| VIII | 8 | 6 | 7 | 5 | 3 | 2 | 30 |
| IX | 9 | 7 | 8 | 6 | 4 | 3 | 31 |
| X | 10 | 8 | 9 | 7 | 5 | 4 | 1/11 |
| XI | 11 | 9 | 10 | 8 | 6 | 5 | 2 |
| XII | 12 | 10 | 11 | 9 | 7 | 6 | 3 |
| XIII | 13 | 11 | 12 | 10 | 8 | 7 | 4 |
| XIV | 14 | 12 | 13 | 11 | 9 | 8 | 5 |
| XV | 15 | 13 | 14 | 12 | 10 | $9^{\text { }}$ |  |
| XVI | 16 | 14 | 15 | 13 | 11 | 10 |  |
| XVII | 17 | 15 | 160 | $14 \bigcirc$ | 12 | 11 |  |
| XVIII | 18 ○ | 16 | 17 | 15 | $13 \quad 0$ | 12 |  |
| XIX | 19 | 17 - | 18 | 16 | 14 | $13 \quad 0$ |  |
| XX | 20 | 18 | 19 | 17 | 15 | 14 |  |
| XXI | 21 | 19 | 20 | 18 | 16 | 15 |  |
| XXII | 22 | 20 | 21 | 19 | 17 | 16 |  |
| XXIII | 23 | 21 | 22 | 20 | 18 | 17 |  |
| XXIV | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XXV | 25 | 23 | 24 | 22 | 20 | 19 |  |
| XXVI | 26 | 24 | 25 | 23 | 21 | 20 |  |
| XXVII | 27 | 25 | 26 | 24 | 22 | 21 |  |
| XXVIII | 28 | ss 26 | 27 | 25 | 23 | 22 |  |
| XXIX | 29 | 27 | 28 | 26 | 24 |  |  |
| XXX |  | 28 |  |  |  |  |  |
| XXXI |  | 29 |  |  |  |  |  |

C191 Consuls: P. Cornelius Scipio, M'. Acilius Glabrio

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 192 | 192 | 192/1 | 191 | 191 | 191 | 191 |
| I |  | 23/11 | 22/12 | 22/1 | $20 / 2$ | 23/3 | 21/4 |
| II |  | 24 | 23 | 23 | 21 | 24 | 22 |
| III |  | 25 | WS 24 | 24 • | 22 | 25 | 23 |
| IV |  | 26 - | 25 | 25 | 23 | 26 | 24 |
| V |  | 27 | 26 - | 26 | VE 24 | 27 | 25 |
| VI |  | 28 | 27 | 27 | 25 | 28 | 26 |
| VII |  | 29 | 28 | 28 | 26 | 29 | 27 |
| VIII |  | 30 | 29 | 29 | 27 | 30 | 28 |
| IX |  | 1/12 | 30 | 30 | 28 | 31 | 29 |
| X |  | 2 | 31 | 31 | 1/3 | $1 / 4$ | 30 |
| XI |  | 3 | I/1/191 | 1/2 | 2 | 2 | 1/5 |
| XII |  | 4 | 2 | 2 | 3 | 3 | 2 |
| XIII |  | 5 | 3 | 3 | 4 | 4 | 3 |
| XIV |  | 6 | 4 | 4 | 5 | 5 | 4 |
| XV | $6 / 11$ | 7 | 5 | 5 | 6 | 6 | 5 |
| XVI | 7 | 8 | 6 | 6 | 7 | 7 | 6 |
| XVII | 8 | 9 | 7 | 7 | 8 | 8 | 7 |
| XVIII | 9 | 10 | 8 | 8 | 9 | 9 | 8 |
| XIX | 10 | 110 | 9 | $9 \quad 0$ | 10 | 10 | 9 |
| XX | 110 | 12 | 10 - | 10 | 11 | 11 | 10 |
| XXI | 12 | 13 | 11 | 11 | 12 | 12 | 11 |
| XXII | 13 | 14 | 12 | 12 | 13 | 13 | 12 |
| XXIII | 14 | 15 | 13 | 13 | 14 | 14 | 13 |
| XXIV | 15 | 16 | 14 | 14 | 15 | 15 | 14 |
| XXV | 16 | 17 | 15 | 15 | 16 | 16 | 15 |
| XXVI | 17 | 18 | ! | 16 | 17 | 17 | 16 |
| XXVII | 18 | 19 | 17 | 17 | 18 | 18 | 17 |
| XXVIII | 19 | 20 | 18 | 18 | 19 | 19 | 18 |
| XXIX | 20 | 21 | 19 | 19 | 20 | 20 | 19 |
| XXX | 21 |  | 20 |  | 21 |  |  |
| XXXI | 22 |  | 21 |  | 22 |  |  |

C191 Consuls: P. Cornelius Scipio, M'. Acilius Glabrio

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 191 | 191 | 191 | 191 | 191 | 191 | 191 |
| 1 | $20 / 5$ | $20 / 6$ | 19/7 | 17/8 | 15/9 | 8/10 | 4/11 |
| II | 21 | 21. | 20 | 18 | 16 | 9 | 5 |
| III |  | 22 | 21. |  | 17 | 10 | 6 |
| IV | 23 | 23 | 22 | 20 | 18 - | 11 | 7 |
| V | 24 | 24 | 23 | 21 | : | 12 | 8 |
| VI | 25 | 25 | 24 | 22 | 20 | 13 | 9 |
| VII | 26 | ss 26 | 25 | 23 | 21 | 14 | 10 |
| VIII | 27 | 27 | 26 | 24 | 22 | 15 | 11 |
| IX | 28 | 28 | 27 | 25 | 23 | 16 | 12 |
| X | 29 | 29 | 28 | 26 | 24 | 17 | 13 |
| XI | 30 | 30 | 29 | 27 | 25 | 18 • | 14 |
| XII | 31 | 1/7 | 30 | 28 | AE 26 | 19 | 15 |
| XIII | $1 / 6$ | 2 | 31 | 29 | 27 | 20 | 16 |
| xIV | 2 | 3 | 1/8 | 30 | 28 | 21 | 17 |
| XV | 3 | 4 | 2 | 31 | 29 | 22 |  |
| XVI | 4 | 5 | 3 | 1/9 | 30 | 23 |  |
| XVII | 5 |  |  | 20 | $1 / 10$ | 24 |  |
| XVIII |  | 7 | 5 | 3 | 20 | 25 |  |
| XIX | 7 | 8 | 6 | 4 | 3 | 26 |  |
| XX | 8 | 9 | 7 | 5 | 4 | 27 |  |
| XXI | 9 | 10 | 8 | 6 | 5 | 28 |  |
| XXII | 10 | 11 | 9 | 7 | 6 | 29 |  |
| XXIII | 11 | 12 | 10 | 8 | 7 | 30 |  |
| XXIV | 12 | 13 | 11 | 9 |  | 31 |  |
| XxV | 13 | 14 | 12 | 10 |  | 1/11 $\circ$ |  |
| XXVI | 14 | 15 | 13 | 11 |  | 2 |  |
| XXVII | 15 | 16 | 14 | 12 |  | 3 |  |
| XXVIII | 16 | 17 | 15 | 13 |  |  |  |
| XXIX | 17 | 18 | 16 | 14 |  |  |  |
| xxx | 18 |  |  |  |  |  |  |
| XXXI | 19 |  |  |  |  |  |  |

C190 Consuls: L. Cornelius Scipio, C. Laelius

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 191 | 191/190 | 190 | 190 | 190 | 190 |
| I |  | 5/12 | 3/1 | $3 / 2$ | 4/3 | 4/4 |
| II |  | 6 | 4 | 4 | 5 | 5 |
| III |  | 7 | 5 | 5 | 6 | 6 |
| IV |  | 8 | 6 | 6 | 7 | 7 |
| V |  | 9 | 7 | 7 | 8 | 8 |
| VI |  | 10 | 8 | 8 | 9 | 9 |
| VII |  | 11 | 9 | 9 | 10 | 10 |
| VIII |  | 12 | 10 | 10 | 11 | 11 |
| IX |  | 13 | 11 | 11 | 12 | 12 |
| X |  | 14 | 12 | 12 | 13 | 13 |
| XI |  | 15 | 13 | 13 | TSE 14 | 14 |
| XII |  | 16 • | 14 * | 14 | 15 | 15 |
| XIII |  | 17 | 15 | 15 | 16 | 16 |
| XIV |  | 18 | 16 | 16 | 17 | 17 |
| XV | 18/11 | 19 | 17 | 17 | 18 | 18 |
| XVI | 19 | 20 | 18 | 18 | 19 | 19 |
| XVII | 20 | 21 | 19 | 19 | 20 | 20 |
| XVIII | 21 | 22 | 20 | 20 | 21 | 21 |
| XIX | 22 | 23 | 21 | 21 | 22 | 22 |
| XX | 23 | ws 24 | 22 | 22 | 23 | 23 |
| XXI | 24 | 25 | 23 | 23 | VE 24 | 24 |
| XXII | 25 | 26 | 24 | 24 | 25 | 25 |
| XXIII | 26 | 27 | 25 | 25 | 26 | 26 |
| XXIV | 27 | 28 | 26 | 26 | 27 | 27 |
| XXV | 28 | 29 | 27 | 27 | 28 | 28 |
| XXVI | 29 | $30 \quad 0$ | 28 | 28 | 29 | 29 |
| XXVII | 30 | 31 | $29 \quad 0$ | 1/3 | 30 | 30 |
| XXVIII | 1/12 | 1/1/190 | 30 | 2 | 31 | $1 / 5$ |
| XXIX | 2 | 2 | 31 | 3 | 1/4 | 2 |
| XXX | 3 | §. | 1/2 | \$ | 2 |  |
| XXXI | 4 |  | 2 |  | 3 | そ̌, |

C190 Consuls: L. Cornelius Scipio, C. Laelius

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 190 | 190 | 190 | 190 | 190 | 190 | 190 |
| I | 3/5 | 1/6 | 2/7 | 31/7 | 29/8 | AE 27/9 | 25/10 |
| II | 4 | 2 | 3 | 1/8 | 30 | 28 | 26 |
| III | 5 | 3 | 4 | 2 | 31 | 29 | 27 |
| IV | 6 | 4 | 5 | 3 | 1/9 | 30 | 28 |
| V | 7 | 5 | 6 | 4 | 2 | 1/10 | 29 |
| VI | 8 | 6 | 7 | 5 | 3 | 2 | 30 |
| VII | 9 | 7 | 8 | 6 | 4 | 3 | 31 |
| VIII | 10 | 8 | 9 | 7 | 5 | 4 | 1/11 |
| IX | 11 | 9 | 10 - | 8 • | 6 | 5 | 2 |
| X | 12 - | 10 • | 11 | 9 | 7 - | 6 | 3 |
| XI | 13 | 11 | 12 | 10 | 8 | 7 - | 4 |
| XII | 14 | 12 | 13 | 11 | 9 | 8 | 5 |
| XIII | 15 | 13 | 14 | 12 | 10 | 9 | 6 |
| XIV | 16 | 14 | 15 | 13 | 11 | 10 | 7 |
| XV | 17 | 15 | 16 | 14 | 12 | 11 |  |
| XVI | 18 | 16 | 17 | 15 | 13 | 12 |  |
| XVII | 19 | 17 | 18 | 16 | 14 | 13 |  |
| XVIII | 20 | 18 | 19 | 17 | 15 | 14 |  |
| XIX | 21 | 19 | 20 | 18 | 16 | 15 |  |
| XX | 22 | 20 | 21 | 19 | 17 | 16 |  |
| XXI | 23 | 21 | 22 | 20 | 18 | 17 |  |
| XXII | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XXIII | 25 | 23 | 24 | 22 | 20 | 19 |  |
| XXIV | 26 | 24 | 250 | 230 | 210 | 20 |  |
| XXV | $27 \bigcirc$ | 250 | 26 | 24 | 22 | 210 |  |
| XXVI | 28 | Ss 26 | 27 | 25 | 23 | 22 |  |
| XXVII | 29 | 27 | 28 | 26 | 24 | 23 |  |
| XXVIII | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XXIX | 31 | 29 | 30 | 28 | 26 |  |  |
| XXX |  | 30 |  |  | $\cdots$ |  |  |
| XXXI |  | 1/7 |  |  |  |  |  |

C189 Consuls: M. Fulvius Nobilior, Cn. Manlius Volso

|  | MAR | APR | MAI | JUN | QUl | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 190 | 190 | 190/189 | 189 | 189 | 189 | 189 |
| 1 |  | 25/11 | ws 24/12 | 24/1 | 22/2 | VE 24/3 | 22/4 |
| II |  | 26 | 25 | 25 | 23 | 25 | 23 |
| III |  | 27 | 26 | 26 | 24 | 26 | 24 |
| IV |  | 28 | 27 | 27 | 25 | 27 | 25 |
| V |  | 29 | 28 | 28 | 26 | 28 | 26 |
| VI |  | 30 | 29 | 29 | 27 | 29 | 27 |
| VII |  | 1/12 | 30 | 30 | 28 | 30 | 28 |
| VIII |  | 2 | 31 | 31 | 29 | 31 | 29 |
| IX |  | 3 | 1/1/189 | 1/2 | 1/3 | 1/4 - | 30 |
| X |  | 4 | 2 | 2 | 2 - | 2 | 1/5 |
| XI |  | 5 • | 3 | 3 | 3 | 3 | 2 |
| XII |  | 6 | 4 • | 4 | 4 | 4 | 3 |
| XIII |  | 7 | 5 | 5 | 5 | 5 | 4 |
| XIV |  | 8 | 6 | 6 | 6 | 6 | 5 |
| XV | 8/11 | 9 | 7 | 7 | 7 | 7 | 6 |
| XVI | 9 | 10 | 8 | 8 | 8 | 8 | 7 |
| XVII | 10 | 11 | 9 | 9 | 9 | 9 | 8 |
| XVIII | 11 | 12 | 10 | 10 | 10 | 10 | 9 |
| XIX | 12 | 13 | 11 | 11 | 11 | 11 | 10 |
| XX | 13 | 14 | 12 | 12 | 12 | 12 | 11 |
| XXI | 14 | 15 | 13 | 13 | 13 | 13 | 12 |
| XXII | 15 | 16 | 14 | 14 | 14 | 14 | 13 |
| XXIII | 16 | 17 | 15 | 15 | 15 | 15 | 14 |
| XXIV | 17 | 18 | 16 | 16 | 16 | 160 | 15 |
| XXV | 18 | 190 | 17 | 17 | 17 ○ | 17 | 16 |
| XXVI | 190 | 20 | 18 o | 18 | 18 | 18 | 17 |
| XXVII | 20 | 21 | 19 | 19 | 19 | 19 | 18 |
| XXVIII | 21 | 22 | 20 | 20 | 20 | 20 | 19 |
| XXIX | 22 | 23 | 21 | 21 | 21 | 21 | 20 |
| XXX | 23 |  | 22 |  | 22 |  |  |
| XXXI | 24 |  | 23 |  | 23 |  |  |

C189 Consuls: M. Fulvius Nobilior, Cn. Manlius Volso
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 189 | 189 | 189 | 189 | 189 | 189 | 189 |
| I | 21/5 | 21/6 | 20/7 | 18/8 | 16/9 | 10/10 0 | $6 / 11$ |
| II | 22 | 22 | 21 | 19 | 17 | 11 | 7 |
| III | 23 | 23 | 22 | 20 | 18 | 12 | 8 |
| IV | 24 | 24 | 23 | 21 | 19 | 13 | 9 |
| V | 25 | 25 | 24 | 22 | 20 | 14 | 10 |
| VI | 26 | ss 26 | 25 | 23 | 21 | 15 | 11 |
| VII | 27 | 27 | 26 | 24 | 22 | 16 | 12 |
| VIII | 28 | 28 - | 27 - | 25 | 23 | 17. | 13 |
| IX | 29 - | 29 | 28 | 26 • | 24 | 18 | 14 |
| X | 30 | 30 | 29 | 27 | 25 - | 19 | 15 |
| XI | 31 | 1/7 | 30 | 28 | AE 26 | 20 | 16 |
| XII | 1/6 | 2 | 31 | 29 | - 27 | 21 | 17 |
| XIII | 2 | 3 | 1/8 | 30 | 28 | 22 | 18 |
| XIV | 3 | 4 | 2 | 31 | 29 | 23 | 19 |
| XV | 4 | 5 | 3 | 1/9 | 30 | 24 |  |
| XVI | 5 | 6 | 4 | 2 | 1/10 | 25 - |  |
| XVII | 6 | 7 | 5 | 3 | 2 | 26 |  |
| XVIII | 7 | 8 | 6 | 4 | 3 | 27 |  |
| XIX | 8 | 9 | 7 | 5 | 4 | 28 |  |
| XX | 9 | 10 | 8 | 6 | 5 | 29 |  |
| XXI | 10 | 11 | 9 | 7 | 6 | 30 |  |
| XXII | 11 | 12 | 10 | 8 | 7 | 31 |  |
| XXIII | 12 | 130 | 11 | 9 | 8 | 1/11 |  |
| XXIV | 13 | 14 | 12 ○ | $10 \quad 0$ | 9 | 2 |  |
| XXV | 14 ○ | 15 | 13 | 11 |  | 3 |  |
| XXVI | 15 | 16 | 14 | 12 |  | 4 |  |
| XXVII | 16 | 17 | 15 | 13 | 1\%\% | 5 |  |
| XXVIII | 17 | 18 | 16 | 14 |  |  |  |
| XXIX | 18 | 19 | 17 | 15 |  |  |  |
| XXX | 19 |  |  |  |  |  |  |
| XXXI | 20 |  |  |  |  |  |  |

C188 Consuls: M. Valerius Messalla, C. Livius Salinator

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 189 | $189 / 8$ | 188 | 188 | 188 | 188 |
| I |  | $7 / 12 \bigcirc$ | $5 / 1$ | $5 / 2 \quad 0$ | $6 / 3 \bigcirc$ | 6/4 |
| II |  | 8 | $6 \quad 0$ | 6 | 7 | 7 |
| III |  | 9 | 7 | 7 | 8 | 8 |
| IV |  | 10 | 8 | 8 | 9 | 9 |
| V |  | 11 | 9 | 9 | 10 | 10 |
| VI |  | 12 | 10 | 10 | 11 | 11 |
| VII |  | 13 | 11 | 11 | 12 | 12 |
| VIII |  | 14 | 12 | 12 | 13 | 13 |
| IX |  | 15 | 13 | 13 | 14 | 14 |
| X |  | 16 | 14 | 14 | 15 | 15 |
| XI |  | 17 | 15 | 15 | 16 | 16 |
| XII |  | 18 | 16 | 16 | 17 | 17 |
| XIII |  | 19 | 17 | 17 | 18 | 18 |
| XIV |  | 20 | 18 | 18 | 19 | 19 |
| XV | 20/11 | 21 | 19 | 19 | 20 | 20 |
| XVI | 21 | 22 | 20 | 20 • | 21 - | 21 |
| XVII | 22 | 23 • | 21 | 21 | 22 | 22 |
| XVIII | 23 • | wS 24 | 22 - | 22 | 23 | 23 |
| XIX | 24 | 25 | 23 | 23 | VE 24 | 24 |
| XX | 25 | 26 | 24 | 24 | 25 | 25 |
| XXI | 26 | 27 | 25 | 25 | 26 | 26 |
| XXII | 27 | 28 | 26 | 26 | 27 | 27 |
| XXIII | 28 | 29 | 27 | 27 | 28 | 28 |
| XXIV | 29 | 30 | 28 | 28 | 29 | 29 |
| XXV | 30 | 31 | 29 | 1/3 | 30 | 30 |
| XXVI | 1/12 | 1/1/188 | 30 | 2 | 31 | 1/5 |
| XXVII | 2 | 2 | 31 | 3 | 1/4 | 2 |
| XXVIII | 3 | 3 | 1/2 | 4 | 2 | 3 |
| XXIX | 4 | 4 | 2 | 5 | 3 | 4 |
| XXX | 5 | K | 3 |  | 4 |  |
| XXXI | 6 | - | 4 |  | 50 |  |

C188 Consuls: M. Valerius Messalla, C. Livius Salinator

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 188 | 188 | 188 | 188 | 188 | 188 | 188 |
| I | $5 / 5 \circ$ | 3/6 0 | 4/7 | 2/8 | 31/8 0 | 29/9 0 | 27/10 |
| II | 6 | 4 | 5 | 3 | 1/9 | 30 | 28 |
| III | 7 | 5 | 6 | 4 | 2 | 1/10 | 29 |
| IV | 8 | 6 | 7 | 5 | 3 | 2 | 30 |
| V | 9 | 7 | 8 | 6 | 4 | 3 | 31 |
| VI | 10 | 8 | 9 | 7 | 5 | 4 | 1/11 |
| VII | 11 | 9 | 10 | 8 | 6 | 5 | 2 |
| VIII | 12 | 10 | 11 | 9 | 7 | 6 | 3 |
| IX | 13 | 11 | 12 | 10 | 8 | 7 | 4 |
| X | 14 | 12 | 13 | 11 | 9 | 8 | 5 |
| XI | 15 | 13 | 14 | 12 | 10 | 9 | 6 |
| XII | 16 | 14 | 15 | 13 | 11 | 10 | 7 |
| XI' ${ }^{\text {² }}$ | 17 | 15 | 16 | 14 | 12 | 11 | 8 |
| XIV | 18 | 16 | SE 17 - | 15 | 13 | 12 | 9 |
| XV | 19 - | 17 。 | 18 | 16 | 14 - | 13 |  |
| XVI | 20 | 18 | 19 | 17 | 15 | 14 - |  |
| XVII | 21 | 19 | 20 | 18 | 16 | 15 |  |
| XVIII | 22 | 20 | 21 | 19 | 17. | 16 |  |
| XIX | 23 | 21 | 22 | 20 | 18 | 17 |  |
| XX | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XXI | 25 | 23 | 24 | 22 | 20 | 19 |  |
| XXII | 26 | 24 | 25 | 23 | 21 | 20 |  |
| XXIII | 27 | 25 | 26 | 24 | 22 | 21 |  |
| XXIV | 28 | Ss 26 | 27 | 25 | 23 | 22 |  |
| XXV | 29 | 27 | 28 | 26 | 24 | 23 |  |
| XXVI | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XXVII | 31 | 29 | 30 | 28 | AE 26 | 25 |  |
| XXVIII | 1/6 | 30 | 31 | 29 | 27 | 26 |  |
| XXIX | 2 | 1/7 | $1 / 8 \circ$ | 30 | 28 |  |  |
| XXX | $\checkmark$ | 2 |  |  |  |  |  |
| XXXI |  | 30 | - |  |  |  |  |

C187 Consuls: M. Aemilius Lepidus, C. Flaminius

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 188 | 188 | 188,7 | 187 | 187 | 187 | 187 |
| I |  | 27/110 | 26/12 | $26 / 1$ | 24/2 | 27/3 | 25/4 |
| II |  | 28 | 270 | 27 | 25 | 28 | 26 |
| III |  | 29 | 28 | 28 | 26 | 29 | 27 |
| IV |  | 30 | 29 | 29 | 27 | 30 | 28 |
| V |  | 1/12 | 30 | 30 | 28 | 31 | 29 |
| VI |  | 2 | 31 | 31 | 1/3 | 1/4 | 30 |
| VII |  | 3 | 1/1/187 | 1/2 | 2 | 2 | 1/5 |
| VIII |  | 4 | 2 | 2 | 3 | 3 | 2 |
| IX |  | 5 | 3 | 3 | 4 | 4 | 3 |
| X |  | 6 | 4 | 4 | 5 | 5 | 4 |
| XI |  | 7 | 5 | 5 | 6 | 6 | 5 |
| XII |  | 8 | 6 | 6 | 7 | 7 | 6 |
| XIII |  | 9 | 7 | 7 | 8 | 8 | 7 |
| XIV |  | 10 | 8 | 8 | 9 | 9 - | 8 |
| XV | 10/11 | 11 | 9 | 9 | 10 | 10 | 9 |
| XVI | 11 | 12 - | 10 | 10 - | 11 - | 11 | 10 |
| XVII | 12 - | 13 | 11 - | 11 | 12 | 12 | 11 |
| XVIII | 13 | 14 | 12 | 12 | 13 | 13 | 12 |
| XIX | 14 | 15 | 13 | 13 | 14 | 14 | 13 |
| XX | 15 | 16 | 14 | 14 | 15 | 15 | 14 |
| XXI | 16 | 17 | 15 | 15 | 16 | 16 | 15 |
| XXII | 17 | 18 | 16 | 16 | 17 | 17 | 16 |
| XXIII | 18 | 19 | 17 | 17 | 18 | 18 | 17 |
| XXIV | 19 | 20 | 18 | 18 | 19 | 19 | 18 |
| XXV | 20 | 21 | 19 | 19 | 20 | 20 | 19 |
| XXVI | 21 | 22 | 20 | 20 | 21 | 21 | 20 |
| XXVII | 22 | 23 | 21 | 21 | 22 | 22 | 21 |
| XXVIII | 23 | ws 24 | 22 | 22 | 23 | 23 | 22 |
| XXIX | 24 | 25 | 23 | 23 | VE 24 | $24 \quad 0$ | 23 |
| XXX | 25 | , | 24 |  | $25 \quad 0$ |  |  |
| XXXI | 26 |  | 250 |  | 26 |  |  |

C187 Consuls: M. Aemilius Lepidus, C. Flaminius
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 187 | 187 | 187 | 187 | 187 | 187 | 187 |
| I | 24/5 | 24/6 | 23/7 | 21/8 | 19/9 | 13/10 | 9/11 |
| II | 25 | 25 | 24 | 22 | 20 | 14 | 10 |
| III | 26 | ss 26 | 25 | 23 | 21 | 15 | 11 |
| IV | 27 | 27 | 26 | 24 | 22 | 16 | 12 |
| V | 28 | 28 | 27 | 25 | 23 | 17 | 13 |
| VI | 29 | 29 | 28 | 26 | 24 | $18 \quad 0$ | 14 |
| VII | 30 | 30 | 29 | 27 | 25 | 19 | 15 |
| VIII | 31 | 1/7 | 30 | 28 | AE 26 | 20 | 16 |
| IX | 1/6 | 2 | 31 | 29 | 27 | 21 | 17 ○ |
| X | 2 | 3 | 1/8 | 30 | 28 | 22 | 18 |
| XI | 3 | 4 | 2 | 31 | 29 | 23 | 19 |
| XII | 4 | 5 | 3 | 1/9 | 30 | 24 | 20 |
| XIII | 5 | 6 • | 4 | 2 | 1/10 | 25 | 21 |
| XIV | 6 | 7 | 5 - | 3 * | 2 | 26 | 22 |
| XV | 7 • | 8 | 6 | 4 | 3 • | 27 |  |
| XVI | 8 | 9 | 7 | 5 | 4 | 28 |  |
| XVII | 9 | 10 | 8 | 6 | 5 | 29 |  |
| XVIII | 10 | 11 | 9 | 7 | 6 | 30 |  |
| XIX | 11 | 12 | 10 | 8 | 7 | 31 |  |
| XX | 12 | 13 | 11 | 9 | 8 | $1 / 11$ - |  |
| XXI | 13 | 14 | 12 | 10 | 9 | 2 |  |
| XXII | 14 | 15 | 13 | 11 | 10 | 3 |  |
| XXIII | 15 | 16 | 14 | 12 | 11 | 4 |  |
| XXIV | 16 | 17 | 15 | 13 | 12 | 5 |  |
| XXV | 17 | 18 | 16 | 14 |  | 6 |  |
| XXVI | 18 | 19 | 17 | 15 | \% | 7 |  |
| XXVII | 19 | 20 | 18 | 16 | \% | 8 |  |
| XXVIII | 20 | 21 | 19 | 17 |  |  |  |
| XXIX | 21 | $22 \circ$ | 20 o | 18 |  |  |  |
| XXX | 220 |  |  | \% | \% |  |  |
| XXXI | 23 |  |  |  |  |  |  |

C186 Consuls: Sp. Postumius Albinus, Q. Marcius Philippus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 187 | $187 / 6$ | 186 | 186 | 186 | 186 |
| I |  | 10/12 | 8/1 | 8/2 | 9/3 | 9/4 |
| II |  | 11 | 9 | 9 | 10 | 10 |
| III |  | 12 | 10 | 10 | 11 | 1 i |
| IV |  | 13 | 11 | 11 | 12 | 12 |
| V |  | 14 | 12 | 12 | 13 | 130 |
| VI |  | 15 | 13 | 130 | $14 \quad 0$ | 14 |
| VII |  | $16 \quad 0$ | 14 | 14 | 15 | 15 |
| VIII |  | 17 | 15 ○ | 15 | 16 | 16 |
| IX |  | 18 | 16 | 16 | , 17 | 17 |
| X |  | 19 | 17 | 17 | 18 | 18 |
| XI |  | 20 | 18 | 18 | 19 | 19 |
| XII |  | 21 | 19 | 19 | 20 | 20 |
| XIII |  | 22 | 20 | 20 | 21 | 21 |
| XIV |  | 23 | 21 | 21 | 22 | 22 |
| XV | 23/11 | ws 24 | 22 | 22 | 23 | 23 |
| XVI | 24 | 25 | 23 | 23 | VE 24 | 24 |
| X | 25 | 26 | 24 | 24 | 25 | 25 |
| XVIII | 26 | 27 | 25 | 25 | 26 | 26 |
| XIX | 27 | 28 | 26 | 26 | 27 | 27 |
| XX | 28 | 29 | 27 | 27 | 28 | 28 • |
| XXI | 29 | 30 | 28 | 28 - | 29 | 29 |
| XXII | 30 | $31 \quad$ | 29 | 1/3 | $30 \quad$ - | 30 |
| XXIII | 1/12 | 1/1/186 | 30 - | 2 | 31 | 1/5 |
| XXIV | 2 | 2 | 31 | 3 | 1/4 | 2 |
| XXV | 3 | 3 | 1/2 | 4 | 2 | 3 |
| XXVI | 4 | 4 | 2 | 5 | 3 | 4 |
| XXVII | 5 | 5 | 3 | 6 | 4 | 5 |
| XXVIII | 6 | 6 | 4 | 7 | 5 | 6 |
| XXIX | 7 | 7 | 5 | 8 | 6 | 7 |
| XXX | 8 | \% | 6 |  | 7 |  |
| XXXI | 9 | $\checkmark \square$ | 7 |  | 8 |  |

C186 Consuls: Sp. Postumius Albinus, C. Flaminius

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 186 | 186 | 186 | 186 | 186 | 186 | 186 |
| J | 8/5 | 6/6 | 7/7 | 5/8 | 3/9 | 2/10 | 30/10 |
| II | 9 | 7 | 8 | 6 | 4 | 3 | 31 |
| III | 10 | 8 | 9 | 7 | 5 | 4 | 1/11 |
| IV | 11 | 9 | 10 | 8 | 6 | 5 | 2 |
| V | $12 \bigcirc$ | 10 | 110 | 90 | 7 | 6 | 3 |
| VI | 13 | 110 | 12 | 10 | 8 ○ | 7 | 4 |
| VII | 14 | 12 | 13 | 11 | 9 | 8 ○ | 5 |
| VIII | 15 | 13 | 14 | 12 | 10 | 9. | 6 - |
| IX | 16 | 14 | 15 | 13 | 11 | 10 | 7 |
| X | 17 | 15 | 16 | 14 | 12 | 11 | 8 |
| XI | 18 | 16 | 17 | 15 | 13 | 12 | 9 |
| XII | 19 | 17 | 18 | 16 | 14 | 13 | 10 |
| XIII | 20 | 18 | 19 | 17 | 15 | 14 | 11 |
| XIV | 21 | 19 | 20 | 18 | 16 | 15 | 12 |
| XV | 22 | 20 | 21 | 19 | 17 | 16 |  |
| XVI | 23 | 21 | 22 | 20 | 18 | 17 |  |
| XVII | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XVIII | 25 | 23 | 24 | 22 | 20 | 19 |  |
| XIX | 26 | 24 | 25 • | 23 | 21 | 20 |  |
| XX | 27 | 25 | 26 | 24 - | 22 - | 21 |  |
| XXI | 28 • | Ss 26 - | 27 | 25 | 23 | 22 - |  |
| XXII | 29 | 27 | 28 | 26 | 24 | 23 |  |
| XXIII | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XXIV | 31 | 29 | 30 | 28 | 26 | 25 |  |
| XXV | 1/6 | 30 | 31 | 29 | AE 27 | 26 |  |
| XXVI | 2 | 1/7 | 1/8 | 30 | 28 | 27 |  |
| XXVII | 3 | 2 | 2 | 31 | 29 | 28 |  |
| XXVIII | 4 | 3 | 3 | 1/9 | 30 | 29 |  |
| XXIX | 5 | 4 | 4 | 2 | $1 / 10$ |  |  |
| XXX |  | 5 |  |  |  |  |  |
| XXXI |  | 6 |  |  |  |  |  |

C185 Consuls: Áp. Claudius Pulcher, M. Sempronius Tuditanus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 186 | 186 | 186/5 | 185 | 185 | 185 | 185 |
| I |  | 30/11 | 29/12 | 29/1 | 27/2 | 29/3 | $27 / 4$ |
| II |  | 1/12 | 30 | 30 | 28 | 30 | 28 |
| III |  | 2 | 31 | 31 | 29 | 31 | 29 |
| IV |  | 3 | //1/185 | 1/2 | 1/3 | $1 / 4 \quad 0$ | 30 |
| V |  | 4 | 2 | 2 | 2 | 2 | 1/5 |
| VI |  | 5 | 3 | 30 | 30 | 3 | 2 |
| VII |  | 60 | 40 | 4 | 4 | 4 | 3 |
| VIII |  | 7 | 5 | 5 | 5 | 5 | 4 |
| IX |  | 8 | 6 | 6 | 6 | 6 | 5 |
| X |  | 9 | 7 | 7 | 7 | 7 | 6 |
| XI |  | 10 | 8 | 8 | 8 | 8 | 7 |
| XII |  | 11 | 9 | 9 | 9 | 9 | 8 |
| XIII |  | 12 | 10 | 10 | 10 | 10 | 9 |
| XIV |  | 13 | 11 | 11 | 11 | 11 | 10 |
| XV | 13/11 | 14 | 12 | 12 | 12 | 12 | 11 |
| XVI | 14 | 15 | 13 | 13 | 13 | 13 | 12 |
| XVII | 15 | 16 | 14 | 14 | 14 | 14 | 13 |
| XVIII | 16 | 17 | 15 | 15 | 15 | 15 | 14 |
| XIX | 17 | 18 | 16 | 16 | 16 | 16 | 15 |
| XX | 18 | 19 | 17 | 17 | 17 | 17 - | 16 |
| XXI | 19 | 20 - | 18 | 18 * | 18 - | 18 | 17 |
| XXII | 20 - | 21 | 19 - | 19 | 19 | 19 | 18 |
| XXIII | 21 | 22 | 20 | 20 | 20 | 20 | 19 |
| XXIV | 22 | 23 | 21 | 21 | 21 | 21 | 20 |
| XXV | 23 | ws 24 | 22 | 22 | 22 | 22 | 21 |
| XXVI | 24 | 25 | 23 | 23 | 23 | 23 | 22 |
| XXVII | 25 | 26 | 24 | 24 | VE 24 | 24 | 23 |
| XXVIII | 26 | 27 | 25 | 25 | 25 | 25 | 24 |
| XXIX | 27 | 28 | 26 | 26 | 26 | 26 | 25 |
| XXX | 28 |  | 27 |  | 27 |  |  |
| XXXI | 29 |  | 28 |  | 28 |  |  |

C185 Consuls: Ap. Claudius Pulcher, M. Sempronius Tuditanus

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 185 | 185 | 185 | 185 | 185 | 185 | 185 |
| 1 | 26/5 | Ss26/6 | 25/7 | 23/8 | 21/9 | 15/10 | 11/11 |
| II | 27 | 27 | 26 | 24 | 22 | 16 | 12 |
| III | 28 | 28 | 27 | 25 | 23 | 17 | 13 |
| IV | 29 | 29 - | 28 - | 26 | 24 | 18 | 14 |
| V | 30 - | 30 | 29 | 27 - | 25 | 19 | 15 |
| VI | 31 | 1/7 | 30 | 28 | AE 26 O | 20 | 16 |
| VII | 1/6 | 2 | 31 | 29 | 27 | 21 | 17 |
| VIII | 2 | 3 | 1/8 | 30 | 28 | 22 | 18 |
| IX | 3 | 4 | 2 | 31 | 29 | 23 | 19 |
| X | 4 | 5 | 3 | 1/9 | 30 | 24 | 20 |
| XI | 5 | 6 | 4 | 2 | 1/10 | 250 | 21 |
| XII | 6 | 7 | 5 | 3 | 2 | 26 | 22 |
| XIII | 7 | 8 | 6 | 4 | 3 | 27 | 23 |
| XIV | 8 | 9 | 7 | 5 | 4 | 28 | 24 |
| XV | 9 | 10 | 8 | 6 | 5 | 29 |  |
| XVI | 10 | 11 | 9 | 7 | 6 | 30 |  |
| XVII | 11 | 12 | 10 | 8 | 7 | 31. |  |
| XVIII | 12 | 13 | 11 | 9 | 8 | 1/11 |  |
| XIX | 13 | 14 • | 12 。 | 10 | 9 | 2 |  |
| XX | 14 | 15 | 13 | 11 - | 10 - | 3 |  |
| XXI | 15 | 16 | 14 | 12 | 11 | 4 |  |
| XXII | 16 | 17 | 15 | 13 | 12 | 5 |  |
| XXIII | 17 | 18 | 16 | 14 | 13 | 6 |  |
| XXIV | 18 | 19 | 17 | 15 | 14 | 7 |  |
| XXV | 19 | 20 | 18 | 16 |  | 8 |  |
| XXVI | 20 | 21 | 19 | 17 |  | 9 - |  |
| XXVII | 21 | 22 | 20 | 18 | $\therefore$ | 10 |  |
| XXVIII | 22 | 23 | 21 | 19 |  |  |  |
| XXIX | 23 | 24 | 22 | 20 |  |  |  |
| XXX | 24 |  |  |  |  |  |  |
| XXXI | 25 |  |  |  |  |  |  |

C184 Consuls: P. Claudius Pulcher, L. Porcius Licinus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 185 | 185/4 | 184 | 184 | 184 | 184 |
| I |  | 12/12 | 10/1 | $10 / 2$ | 11/3 | 11/4 |
| II |  | 13 | 11 | 11 | 12 | 12 |
| III |  | 14 | 12 | 12 | 13 | 13 |
| IV |  | 15 | 13 | 13 | 14 | 14 |
| V |  | 16 | 14 | 14 | 15 | 15 |
| VI |  | 17 | 15 | 15 | 16 | 16 |
| VII | . | 18 | 16 | 16 | 17 | 17 |
| VIII |  | 19 | 17 | 17 | 18 | 18 |
| [ X |  | 20 | 18 | 18 | 19 | 19 |
| X |  | 21 | 19 | 19 | 20 | 20 ○ |
| XI |  | 22 | 20 | 20 | 21 | 21 |
| XII |  | 23 | 21. | $21 \quad 0$ | $22 \bigcirc$ | 22 |
| XIII |  | ws $24 \quad \circ$ | $22 \quad 0$ | 22 | 23 | 23 |
| XIV |  | 25 | 23 | 23 | VE 24 | 24 |
| XV | 25/11 | 26 | 24 | 24 | 25 | 25 |
| XVI | 26 | 27 | 25 | 25 | 26 | 26 |
| XVII | 27 | 28 | 26 | 26 | 27 | 27 |
| XVIII | 28 | 29 | 27 | 27 | 28 | 28 |
| XIX | 29 | 30 | 28 | 28 | 29 | 29 |
| XX | 30 | 31 | 29 | 1/3 | 30 | 30 |
| XXI | 1/12 | 1/1/184 | 30 | 2 | 31 | 1/5 |
| XXII | 2 | 2 | 31 | 3 | 1/4 | 2 |
| XXIII | 3 | 3 | 1/2 | 4 | 2 | 3 |
| XXIV | 4 | 4 | 2 | 5 | 3 | 4 |
| XXV | 5 | 5 | 3 | 6 | 4 | 5 |
| XXVI | 6 | 6 | 4 | 7 - | 5 | 6 * |
| XXVII | 7 | $7 \quad \bullet$ | 5 | 8 | 6 - | 7 |
| XXVIII | 8 | 8 | 6 - | 9 | 7 | 8 |
| XXIX | 9 | 9 | 7 | 10 | 8 | 9 |
| XXX | 10 |  | 8 |  | 9 |  |
| XXXI | 11 |  | 9 | $\cdots$ | 10 |  |

C184 Consuls: P. Claudius Pulcher, L. Porcius Licinus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 184 | 184 | 184 | 184 | 184 | 184 | 184 |
| I | 10/5 | 8/6 | 9/7 | 7/8 | 5/9 | 4/10 | 1/11 |
| II | 11 | 9 | 10 | 8 | 6 | 5 | 2 |
| III | 12 | 10 | 11 | 9 | 7 | 6 | 3 |
| IV | 13 | 11 | 12 | 10 | 8 | 7 | 4 |
| V | 14 | 12 | 13 | 11 | 9 | 8 | 5 |
| VI | 15 | 13 | 14 | 12 | 10 | 9 | 6 |
| VII | 16 | 14. | 15 | 13 | 11 | 10 | 7 |
| VIII | 17 | 15 | 16 | 14 | 12 | 11. | 8 |
| IX | 18 | 16 | 17 | 15 | 13 | 12 | 9 |
| X | 19 | 17 | 180 | 16 | 14 | 13 | 10 |
| XI | $20 \quad 0$ | 18 O | 19 | 17 | $15 \quad 0$ | $14 \bigcirc$ | 11 |
| XII | 21 | 19 | 20 | 18 | . 16 | 15 | 12 |
| XIII | 22 | 20 | 21 | 19 | 17 | 16 | 130 |
| XIV | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| XV | 24 | 22 | 23 | 21 | 19 | 18 |  |
| XVI | 25 | 23 | 24 | 22 | 20 | 19 |  |
| XVII | 26 | 24 | 25 | 23 | 21 | 20 |  |
| XVIII | 27 | 25 | 26 | 24 | 22 | 21 |  |
| XIX | 28 | Ss 26 | 27 | 25 | 23 | 22 |  |
| XX | 29 | 27 | 28 | 26 | 24 | 23 |  |
| XXI | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XXII | 31 | 29 | 30 | 28 | AE 26 | 25 |  |
| XXIII | 1/6 | 30 | 31 | 29 | 27 | 26 |  |
| XXIV | 2 | 1/7 | 1/8 | 30 | 28 | 27 |  |
| XXV | 3 | 2 | 2 * | $31 *$ | 29 | 28 |  |
| XXVI | 40 | 3 | 3 | 1/9 | 30 - | 29 - |  |
| XXVII | 5 | 4 • | 4 | 2 | 1/10 | 30 |  |
| XXVIII | 6 | 5 | 5 | 3 | 2 | 31 |  |
| XXIX | 7 | 6 | 6 | 4 | 3 |  |  |
| XXX |  | 7 |  |  |  |  |  |
| XXXI |  | 8 |  |  |  |  |  |

C183 Consuls: M. Claudius Marcellus, Q. Fabius Labeo

|  | MAAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 184 | 184 | 184/3 | 183 | 183 | 183 | 183 |
| I |  | 2/12 | 31/12 | 31/1 | 1/3 | 1/4 | 30/4 |
| II |  | 3 | 1/1/183 | 1/2 | 2 | 2 | 1/5 |
| III |  | 4 | 2 | 2 | 3 | 3 | 2 |
| IV |  | 5 | 3 | 3 | 4 | 4 | 3 |
| V |  | 6 | 4 | 4 | 5 | 5 | 4 |
| VI |  | 7 | 5 | 5 | 6 | 6 | 5 |
| VII |  | 8 | 6 | 6 | 7 | 7 | 6 |
| VIII |  | 9 | 7 | 7 | 8 | 8 | 7 |
| IX |  | 10 | 8 | 8 | 9 | 9 | 8 |
| X |  | 11 | 9 | 9 | 10 | 10 ○ | 9 |
| XI |  | 12 | 10 | 10 ○ | 11 | 11 | 10 |
| XII |  | 130 | 11 | 11 | 12 o | 12 | 11 |
| XIII |  | 14 | 120 | 12 | 13 | 13 | 12 |
| XIV |  | 15 | 13 | 13 | 14 | 14 | 13 |
| XV | 15/11 | 16 | 14 | 14 | 15 | 15 | 14 |
| XVI | 16 | 17 | 15 | 15 | 16 | 16 | 15 |
| XVII | 17 | 18 | 16 | 16 | 17 | 17 | 16 |
| XVIII | 18 | 19 | 17 | 17 | 18 | 18 | 17 |
| XIX | 19 | 20 | 18 | 18 | 19 | 19 | 18 |
| XX | 20 | 21 | 19 | 19 | 20 | 20 | 19 |
| XXI | 21 | 22 | 20 | 20 | 21 | 21 | 20 |
| XXII | 22 | 23 | 21 | 21 | 22 | 22 | 21 |
| XXIII | 23 | Ws 24 | 22 | 22 | 23 | 23 | 22 |
| XXIV | 24 | 25 | 23 | 23 | VE 24 | 24 | 23 |
| XXV | 25 | 26 | 24 | 24 - | 25 | 25 * | 24 |
| XXVI | 26 | 27 - | 25 | 25 | 26 | 26 | 25 |
| XXVII | 27 | 28 | 26 - | 26 | 27 | 27 | 26 |
| XXVIII | 28 - | 29 | 27 | 27 | 28 | 28 | 27 |
| XXIX | 29 | 30 | 28 | 28 | 29 | 29 | 28 |
| XXX | 30 |  | 29 |  | 30 |  |  |
| XXXI | 1/12 |  | 30 |  | 31. |  |  |

C183 Consuls: M. Claudius Marcellus, Q. Fabius Labeo
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 183 | 183 | 183 | 183 | 183 | 183 | 183 |
| I | $29 / 5$ | $29 / 6$ | 28/7 | 26/8 | 24/9 | 18/10 | 14/11 |
| II | 30 | 30 | 29 | 27 | 25 | 19 - | 15 |
| III | 31 | 1/7 | 30 | 28 | AE 26 | 20 | 16 |
| IV | 1/6 | 2 | 31 | 29 | 27 | 21 | 17 |
| V | 2 | 3 | 1/8 | 30 | 28 | 22 | 18 |
| VI | 3 | 4 | 2 | 31 | 29 | 23 | 19 |
| VII | 4 | 5 | 3 | 1/9 | 30 | 24 | 20 |
| VIII | 5 | 6 | 4 | 2 | 1/10 | 25 | 21 |
| IX | 6 | 70 | 50 | 3 | 2 | 26 | 22 |
| X | 7 | 8 | 6 | 40 | 3 | 27 | 23 |
| XI | 80 | 9 | 7 | 5 | 40 | 28 | 24 |
| XII | 9 | 10 | 8 | 6 | 5 | 29 | 25 |
| XIII | 10 | 11 | 9 | 7 | 6 | 30 | 26 |
| XIV | 11 | 12 | 10 | 8 | 7 | 31 | 27 |
| XV | 12 | 13 | 11 | 9 | 8 | 1/11 |  |
| XVI | 13 | 14 | 12 | 10 | 9 | 20 |  |
| XVII | 14 | 15 | 13 | 11 | 10 | 3 |  |
| XVIII | 15 | 16 | 14 | 12 | 11 | 4 |  |
| XIX | 16 | 17 | 15 | 13 | 12 | 5 |  |
| XX | 17 | 18 | 16 | 14 | 13 | 6 |  |
| XXI | 18 | 19 | 17 | 15 | 14 | 7 |  |
| XXII | 19 | 20 | 18 | 16 | 15 | 8 |  |
| XXIII | 20 | 21 | 19 | 17 | 16 | 9 |  |
| XXIV | 21 | 22 - | 20 | 18 | 17 | 10 |  |
| XXV | 22 | 23 | $21 *$ | $19 \quad$ | $\times$ | 11 |  |
| XXVI | 23 - | 24 | 22 | 20 | \% | 12 |  |
| XXVII | 24 | 25 | 23 | 21 |  | 13 |  |
| XXVIII | 25 | 26 | 24 | 22 |  |  |  |
| XXIX | Ss 26 | 27 | 25 | 23 |  |  |  |
| XXX | 27 |  |  |  |  |  |  |
| XXXI | 28 |  | . | \% |  | . |  |

C182 Consuls: Cn. Baebius Tamphilus, L. Aemilius Paullus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 183 | 183/2 | 182 | 182 | 182 | 182 |
| $\underline{ }$ |  | 15/12 | 13/1 | 13/2 | 14/3 | 14/4 - |
| II |  | 16 | 14 | 14 - | 15 • | 15 |
| III |  | $17 \quad \bullet$ | 15 - | 15 | 16 | 16 |
| IV |  | 18 | 16 | 16 | 17 | 17 |
| V |  | 19 | 17 | 17 | 18 | 18 |
| VI |  | 20 | 18 | 18 | 19 | 19 |
| VII |  | 21 | 19 | 19 | 20 | 20 |
| VIII |  | 22 | 20 | 20 | 21 | 21 |
| IX |  | 23 | 21 | 21 | 22 | 22 |
| X |  | ws 24 | 22 | 22 | 23 | 23 |
| XI |  | 25 | 23 | 23 | VE 24 | 24 |
| XII |  | 26 | 24 | 24 | 25 | 25 |
| XIII |  | 27 | 25 | 25 | 26 | 26 |
| XIV |  | 28 | 26 | 26 | 27 | 27 |
| XV | 28/11 | 29 | 27 | 27 | 28 | 28 |
| XVI | 29 | 30 | 28 | 28 | 29 | $29 \quad 0$ |
| XVII | 30 | 31 | 29 | $1 / 3 \quad 0$ | 30 | 30 |
| XVIII | 1/12 | 1/1/1820 | 30 | 2 | $31 \quad 0$ | 1/5 |
| XIX | 20 | 2 | $31 \quad 0$ | 3 | 1/4 | 2 |
| XX | 3 | 3 | 1/2 | 4 | 2 | 3 |
| XXI | 4 | 4 | 2 | 5 | 3 | 4 |
| XXII | 5 | 5 | 3 | 6 | 4 | 5 |
| XXII! | 6 | 6 | 4 | 7 | 5 | 6 |
| XXIV | 7 | 7 | 5 | 8 | 6 | 7 |
| XXV | 8 | 8 | 6 | 9 | 7 | 8 |
| XXVI | 9 | 9 | 7 | 10 | 8 | 9 |
| XXVII | 10 | 10 | 8 | 11 | 9 | 10 |
| XXVIII | 11 | 11 | 9 | 12 | 10 | 11 |
| XXIX | 12 | 12 | 10 | 13 | 11 | 12 |
| XXX | 13 | . | 11 |  | 12 |  |
| XXXI | 14 | \% | 12 |  | 13 |  |

C182 Consuls: Cn. Baebius Tamphilus, L. Aemilius Paullus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 182 | 182 | 182 | 182 | 182 | 182 | 182 |
| 1 | 13/5 | 11/6 | 12/7 | 10/8 | 8/9 | 7/10 | 4/11 |
| II | 14 | 12 - | 13 | 11 | 9 - | 8 - | 5 |
| III | 15 | 13 | 14 | 12 | 10 | 9 | 6 |
| IV | 16 | 14 | 15 | 13 | 11 | 10 | 7 |
| V | 17 | 15 | 16 | 14 | 12 | 11 | 8 |
| V1 | 18 | 16 | 17 | 15 | 13 | 12 | 9 |
| VII | 19 | 17 | 18 | 16 | 14 | 13 | 10 |
| VIII | 20 | 18 | 19 | 17 | 15 | 14 | 11 |
| IX | 21 | 19 | 20 | 18 | 16 | 15 | 12 |
| X | 22 | 20 | 21 | 19 | 17 | 16 | 13 |
| XI | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| XII | 24 | 22 | 23 | 21 | 19 | 18 | 15 |
| XIII | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| XIV | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| XV | 27 | 25 | 260 | 24 ○ | 22 | 21 |  |
| XVI | 28 - | ss 26 | 27 | 25 | 23 - | $22 \bigcirc$ |  |
| XVII | 29 | 27 o | 28 | 26 | 24 | 23 |  |
| XVIII | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XIX | 31 | 29 | 30 | 28 | 26 | 25 |  |
| XX | 1/6 | 30 | 31 | 29 | AE 27 | 26 |  |
| XXI | 2 | 1/7 | 1/8 | 30 | 28 | 27 |  |
| XXII | 3 | 2 | 2 | 31 | 29 | 28 |  |
| XXIII | 4 | 3 | 3 | 1/9 | 30 | 29 |  |
| XXIV | 5 | 4 | 4 | 2 | 1/10 | 30 |  |
| XXV | 6 | 5 | 5 | 3 | 2 | 31 |  |
| XXVI | 7 | 6 | 6 | 4 | 3 | 1/11 |  |
| XXVII | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XXVIII | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XXIX | 10 | 9 | 9 | 7 | 6 |  |  |
| XXX |  | 10 |  |  |  |  |  |
| XXXI |  | 11 - |  |  |  |  |  |

C181 Consuls: P. Cornelius Cethegus, M. Baebius Tamphilus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 182 | 182/1 | 181 | 181 | 181 | 181 | 181 |
| I |  | 5/12 | 3/1 | 3/2 | 3/3 | 3/4 | $2 / 5$ |
| II |  | 6 • | 4 | 4 | 4 - | 4 | 3 |
| III |  | 7 | 5 • | 5 | 5 | 5 | 4 |
| IV |  | 8 | 6 | 6 | 6 | 6 | 5 |
| V |  | 9 | 7 | 7 | 7 | 7 | 6 |
| VI |  | 10 | 8 | 8 | 8 | 8 | 7 |
| VII |  | 11 | 9 | 9 | 9 | 9 | 8. |
| VIII |  | 12. | 10 | 10 | 10 | 10 | 9 |
| IX |  | 13 | 11 | 11 | 11 | 11 | 10 |
| X |  | 14 | 12 | 12 | 12 | 12 | 11 |
| XI |  | 15 | 13 | 13 | 13 | 13 | 12 |
| XII |  | 16 | 14 | 14 | 14 | 14 | 13 |
| XIII |  | 17 | 15 | 15 | 15 | 15 | 14 |
| XIV |  | 18 | 16 | 16 | 16 | 16 | 15 |
| XV | 18/11 | 19 | 17 | 17 | 17 | 17 | 16 |
| XVI | 19 | 20 | 18 | $18 \quad 0$ | 18 | $18 \cdot 0$ | 17 |
| XVII | 20 | 210 | 19 | 19 | $19 \bigcirc$ | 19 | 18 |
| XVIII | 210 | 22 | 20 ○ | 20 | 20 | 20 | 19 |
| XIX | 22 | 23 | 21 | 21 | 21 | 21 | 20 |
| XX | 23 | ws 24 | 22 | 22 | 22 | 22 | 21 |
| XXI | 24 | 25 | 23 | 23 | 23 | 23 | 22 |
| XXII | 25 | 26 | 24 | 24 | VE 24 | 24 | 23 |
| XXIII | 26 | 27 | 25 | 25 | 25 | 25 | 24 |
| XXIV | 27 | 28 | 26 | 26 | 26 | 26 | 25 |
| XXV | 28 | 29 | 27 | 27 | 27 | 27 | 26 |
| XXVI | 29 | 30 | 28 | 28 | 28 | 28 | 27 |
| XXVII | 30 | 31 | 29 | 29 | 29 | 29 | 28 |
| XXVIII | 1/12 | 1/1/181 | 30 | 1/3 | 30 | 30 | 29 |
| XXIX | 2 | 2 | 31 | 2 | 31 | 1/5 | 30 |
| XXX | 3 |  | $1 / 3$ |  | 1/4 |  |  |
| XXXI | 4 |  | 2 |  | 2 - |  |  |

C181 Consuls: P. Cornelius Cethegus, M. Baebius Tamphilus
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 181 | 181 | 181 | 181 | 181 | 181 | 181 |
| 1 | 31/5 | 1/7 | 30/7 | 28/8 | AE 26/9 | 20/10 | 16/11 |
| II | 1/6 | 2 | 31 | 29 | 27 • | 21 | 17 |
| III | 2 | 3 | 1/8 | 30 | 28 | 22 | 18 |
| IV | 3 | 4 | 2 | 31 | 29 | 23 | 19 |
| V | 4 | 5 | 3 | 1/9 | 30 | 24 | 20 |
| VI | 5 | 6 | 4 | 2 | 1/10 | 25 | 21 |
| VII | 6 | 7 | 5 | 3 | 2 | 26 • | 22 |
| VIII | 7 | 8 | 6 | 4 | 3 | 27 | 23 |
| IX | 8 | 9 | 7 | 5 | 4 | 28 | 24 |
| X | 9 | 10 | 8 | 6 | 5 | 29 | 25 |
| XI | 10 | 11 | 9 | 7 | 6 | 30 | 26 |
| XII | 11 | 12 | 10 | 8 | 7 | 31 | 27 |
| XIII | 12 | 13 | 11 | 9 | 8 | 1/11 | 28 |
| XIV | 13 | 14 | 12 | 10 | 9 | 2 | 29 |
| XV | 14 | $15 \bigcirc$ | 130 | 110 | 10 | 3 |  |
| XVI | 150 | 16 | 14 | 12 | 110 | 4 |  |
| XVII | 16 | 17 | 15 | 13 | 12 | 5 |  |
| XVIII | 17 | 18 | 16 | 14 | 13 | 6 |  |
| XIX | 18 | 19 | 17 | 15 | 14 | 7 |  |
| XX | 19 | 20 | 18 | 16 | 15 | 8 |  |
| XXI | 20 | 21 | 19 | 17 | 16 | 90 |  |
| XXII | 21 | 22 | 20 | 18 | 17 | 10 |  |
| XXIII | 22 | 23 | 21 | 19 | 18 | 11 |  |
| XXIV | 23 | 24 | 22 | 20 | 19 | 12 |  |
| XXV | 24 | 25 | 23 | 21 |  | 13 |  |
| XXVI | 25 | 26 | 24 | 22 |  | 14 |  |
| XXVII | SS 26 | 27 | 25 | 23 |  | 15 |  |
| XXVIII | 27 | 28 | 26 | 24 |  |  |  |
| XXIX | 28 | 29 | 27 | 25 | $\bigcirc$ | 8 |  |
| XXX | 29 |  | - , |  | ¢ $\quad$ |  |  |
| XXXI | 30 - |  |  |  | $8 \%$ |  |  |

C180 Consuls: A. Postumius Albinus, C. Calpurnius Piso

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 181 | 181/0 | 180 | 180 | 180 | 180 |
| I |  | 17/12 | 15/1 | 15/2 | $16 / 3$ | 16/4 |
| II |  | 18 | 16 | 16 | 17 | 17 |
| III |  | 19 | 17 | 17 | 18 | 18 |
| IV |  | 20 | 18 | 18 | 19 | 19 |
| V |  | $21^{\circ}$ | 19 | 19 | 20 | 20 |
| VI |  | 22 | 20 | 20 | 21 | 21 - |
| VII |  | 23 | 21 | 21 - | 22 | 22 |
| VIII |  | ws 24 | 22 | 22 | 23 - | 23 |
| IX |  | 25 • | 23 - | 23 | VE 24 | 24 |
| X |  | 26 | 24 | 24 | 25 | 25 |
| XI |  | 27 | 25 | 25 | 26 | 26 |
| XII |  | 28 | 26 | 26 | 27 | 27 |
| XIII |  | 29 | 27 | 27 | 28 | 28 |
| XIV |  | 30 | 28 | 28 | 29 | 29 |
| XV | 30/11 | 31 | 29 | 1/3 | 30 | 30 |
| XVI | 1/12 | 1/1/180 | 30 | 2 | 31 | 1/5 |
| XVII | 2 | 2 | 31 | 3 | 1/4 | 2 |
| XVIII | 3 | 3 | 1/2 | 4 | 2 | 3 |
| XIX | 4 | 4 | 2 | 5 | 3 | 4 |
| XX | 5 | 5 | 3 | 6 | 4 | 5 |
| XXI | 6 | 6 | 4 | 7 | 5 | $6 \quad 0$ |
| XXII | 7 | 7 | 5 | $8 \quad 0$ | 6 | 7 |
| XXIII | 8 | $8 \quad 0$ | 6.0 | 9 | $7 \quad 0$ | 8 |
| XXIV | 9 | 9 | 7 | 10 | 8 | 9 |
| XXV | 10 | 10 | 8 | 11 | 9 | 10 |
| XXVI | 11 | 11 | 9 | 12 | 10 | 11 |
| XXVII | 12 | 12 | 10 | 13 | 11 | 12 |
| XXVIII | 13 | 13 | 11 | 14 | 12 | 13 |
| XXIX | 14 | 14 | 12 | 15 | 13 | 14 |
| XXX | 15 | S\% | 13 |  | 14 |  |
| XXXI | 16 |  | $!4$ |  | 15 |  |

C180 Consuls: A. Postumius Albinus, C. Calpurnius Piso

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| I | 15/5 | 13/6 | 14/7 | 12/8 | 10/9 | $9 / 10$ | 6/11 |
| II | 16 | 14 | 15 | 13 | 11 | 10 | 7 |
| III | 17 | 15 | 16 | 14 | 12 | 11 | 8 |
| IV | 18 | 16 | 17 | 15 | 13 | 12 | 9 |
| V | 19 | 17 | 18 - | 16 | 14 | 13 | 10 |
| VI | 20 - | 18 | 19 | 17 - | 15 | 14 | 11 |
| VII | 21 | 19 - | 20 | 18 | 16 - | 15 - | 12 |
| VIII | 22 | 20 | 21 | 19 | 17 | 16 | 13 |
| IX | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| X | 24 | 22 | 23 | 21 | 19 | 18 | 15 |
| XI | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| XII | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| XIII | 27 | 25 | 26 | 24 | 22 | 21 | 18 |
| XIV | 28 | ss 26 | 27 | 25 | 23 | 22 | 19 |
| XV | 29 | 27 | 28 | 26 | 24 | 23 |  |
| XVI | 30 | 28 | 29 | 27 | 25 | 24 |  |
| XVII | 31 | 29 | 30 | 28 | AE 26 | 25 |  |
| XVIII | 1/6 | 30 | 31 | 29 | 27 | 26 |  |
| XIX | 2 | 1/7 | 1/8 | 30 | 28 | 24 |  |
| XX | 3 | 2 | 2 | 31 | 29 | 26 |  |
| XXI | 4 | 3 | 30 | 1/9 0 | 30 | 29 |  |
| XXII | 50 | $4 \bigcirc$ | 4 | 2 | 1/10 0 | $30 \quad 0$ |  |
| XXIII | 6 | 5 | 5 | 3 | 2 | 31 |  |
| XXIV | 7 | 6 | 6 | 4 | 3 | 1/11 |  |
| XXV | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XXVI | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XXVII | 10 | 9 | 9 | 7 | 6 | 4 |  |
| XXVIII | 11 | 10 | 10 | 8 | 7 | 5 |  |
| XXIX | 12 | 11 | 11 | 9 | 8 |  |  |
| XXX |  | 12 | , |  | \% |  |  |
| XXXI |  | 13 |  |  | ) |  |  |

C179 Consuls: Q. Fulvius Flaccus, L: Manlius Acidinus

|  | MAR | $\because$ APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 180 | 180/79 | 179 | 179 | 179 | 179 | 179 |
| I |  | $7 / 12$ | 5/1 | $5 / 2$ | 6/3 | 6/4 | $5 / 5$ |
| II |  | 8 | 6 | 6 | 7 | 7 | 6 |
| III |  | 9 | 7 | 7 | 8 | 8 | 7 |
| IV |  | 10 | 8 | 8 | 9 | 9 | 8 |
| V |  | 11 | 9 | 9 | 10 | 10 | 9 |
| VI |  | 12 | 10 | 10 | 11 | 11 - | 10 |
| VII |  | 13 | 11 | 11 - | 12 - | 12 | 11 |
| VIII |  | $14 *$ | 12 | 12 | 13 | 13 | 12 |
| IX |  | 15 | 13 • | 13 | 14 | 14 | 13 |
| X |  | 16 | 14 | 14 | 15 | 15 | 14 |
| XI |  | 17 | 15 | 15 | 16 | 16 | 15 |
| XII |  | 18 | 16 | 16 | 17 | 17 | 16 |
| XIII |  | 19 | 17 | 17 | 18 | 18 | 17 |
| XIV |  | 20 | 18 | 18 | 19 | 19 | 18 |
| XV | 20/11 | 21 | 19 | 19 | 20 | 20 | 19 |
| XVI | 21 | 22 | 20 | 20 | 21 | 21 | 20 |
| XVII | 22 | 23 | 21 | 21 | 22 | 22 | 21 |
| XVIII | 23 | WS 24 | 22 | 22 | 23 | 23 | 22 |
| XIX | 24 | 25 | 23 | 23 | VE 24 | 24 | 23 |
| XX | 25 | 26 | 24 | 24 | 25 | 250 | 24 |
| XXI | 26 | 27 | 25 | 250 | 26 | 26 | 25 |
| XXII | 27 | 28 ○ | 26 | 25 | 27 ○ | 27 | 26 |
| XXIII | 28 - | 29 | 27 - | 27 | 28 | 28 | 27 |
| XXIV | 29 | 30 | 28 | 28 | 29 | 29 | 28 |
| XXV | 30 | 31 | 29 | 1/3 | 30 | 30 | 29 |
| XXVI | 1/12 | 1/1/179 | 30 | 2 | 31 | 1/5 | 30 |
| XXVII | 2 | 2 | 31 | 3 | 1/4 | 2 | 31 |
| XXVIII | 3 | 3 | 1/2 | 4 | 2 | 3 | 1/6 |
| XXIX | 4 | 4 | 2 | 5 | 3 | 4 | 2 |
| XXX | 5 |  | 3 |  | 4 |  |  |
| XXXI | 6 |  | 4 |  | 5 |  |  |

C179 Consuls: Q. Fulvius Flaccus, L. Manlius Acidinus
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 179 | 179 | 179 | 179 | 179 | 179 | 179 |
| I | $3 / 6$ | 4/7 | 2/8 | 31/8 | 29/9 | 23/10 | 19/11 |
| II | 4 | 5 | 3 | 1/9 | 30 | 24 | 20 |
| III | 5 | 6 | 4 | 2 | 1/10 | 25 | 21 |
| IV | 6 | 7 | 5 | 3 | 2 | 26 | 22 |
| v | 7 |  |  | 4 | 3 | 27 | 23 |
| VI | 8 • | 9 | 7 | 5 • | 4 - | 28 | 24 |
| VII | 9 | 10 | 8 | 6 | 5 | 29 | 25 |
| VIII | 10 | 11 | 9 | 7 | 6 | 30 | 26 |
| IX | 11 | 12 | 10 | 8 | 7 | 31 | 27 |
| X | 12 | 13 | 11 | 9 | 8 | 1/11 | 28 |
| XI | 13 | 14 | 12 | 10 | 9 | 2 | 29 |
| XII | 14 | 15 | 13 | 11 | 10 | 3 - | 30 |
| XIII | 15 | 16 | 14 | 12 | 11 | 4 | 1/12 |
| XIV | 16 | 17 | 15 | 13 | 12 | 5 | 2 |
| XV | 17 | 18 | 16 | 14 | 13 | 6 |  |
| XVI | 18 | 19 | 17 | 15 | 14 | 7 |  |
| XVII | 19 | 20 | 18 | 16 | 15 | 8 |  |
| XVIII | 20 | 21 | 19 | 17 | 16 | 9 |  |
| XIX | 21 | 22 | 20 | 18 | 17 | 10 |  |
| XX | 22 | 23 - | 21 | 19 | 18 | 11 |  |
| XXI | 23 | 24 | 22 ○ | 20 - | 19 | 12 |  |
| XXII | 24 - | 25 | 23 | 21 | 20 ○ | 13 |  |
| XXIII | 25 | 26 | 24 | 22 | 21 | 14 |  |
| xxiv | ss 26 | 27 | 25 | 23 | 22 | 15 |  |
| XXV | 27 | 28 | 26 | 24 |  | 16 |  |
| XXVI | 28 | 29 | 27 | 25 |  | 17 |  |
| xXVII | 29 | 30 | 28 | AE 26 |  | 18 ○ |  |
| XXVIII | 30 | 31 | 29 | 27 |  |  |  |
| XXIX | 1/7 | 1/8 | 30 | 28 |  |  |  |
| XXX | 2 |  |  |  |  |  |  |
| XXXI | 3 |  |  |  |  |  |  |

C178 Consuls: M. Iunius Brutus, A. Manlius Uulso

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 179 | 179/8 | 178 | 178 | 178 | 178 |
| I |  | 20/12 | 18/1 | 18/2 | 19/3 | $19 / 4$ |
| II |  | 21 | 19 | 19 | 20 | 20 |
| III |  | 22 | 20 | 20 | 21 | 21 |
| IV |  | 23 | 21 | 21 | 22 | 22 |
| V |  | WS. 24 | 22 | 22 | 23 | 23 |
| VI |  | 25 | 23 | 23 | VE 24 | 24 |
| VII |  | 26 | 24 | 24 | 25 | 25 |
| VIII |  | 27 | 25 | 25 | 26 | 26 |
| IX |  | 28 | 26 | 26 | 27 | 27 |
| X |  | 29 | 27 | 27 | 28 | 28 |
| XI |  | 30 | 28 | 28 | 29 | 29 |
| XII |  | 31 | 29 | 1/3 | 30 | $30 \quad$ |
| XIII |  | 1/1/178 | 30 | 2 - | 31 - | 1/5 |
| XIV |  | 2 - | 31 - | 3 | $1 / 4$ | 2 |
| XV | 3/12 | 3 | 1/2 | 4 | 2 | 3 |
| XVI | 4 | 4 | 2 | 5 | 3 | 4 |
| XVII | 5 | 5 | 3 | 6 | 4 | 5 |
| XVIII | 6 | 6 | 4 | 7 | 5 | 6 |
| XIX | 7 | 7 | 5 | 8 | 6 | 7 |
| XX | 8 | 8 | 6 | 9 | 7 | 8 |
| XXI | 9 | 9 | 7 | 10 | 8 | 9 |
| XXII | 10 | 10 | 8 | 11 | 9 | 10 |
| XXIII | 11 | 11 | 9 | 12 | 10 | 11 |
| XXIV | 12 | 12 | 10 | 13 | 11 | 12 |
| XXV | 13 | 13 | 11 | 14 | 12 | 13 |
| XXVI | 14 | 14 | 12 | 15 | 13 | $14 \quad 0$ |
| XXVII | 15 | 15 | 13 | $16 \quad 0$ | 14 | 15 |
| XXVIII | 16 | $16 \quad 0$ | $14 \quad 0$ | 17 | $15 \quad 0$ | 16 |
| XXIX | $17 \quad 0$ | 17 | 15 | 18 | 16 | 17 |
| XXX | 18 | , \% $\%$. | 16 |  | 17 |  |
| XXXI | 19 |  | 17 | $\bigcirc$ | 18 |  |

C178 Consuls: M. Iunius Brutus, A. Manlius Uulso

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 178 | 178 | 178 | 178 | 178 | 178 | 178 |
| I | 18/5 | $16 / 6$ | 17/7 | 15/8 | 13/9 | 12/10 | 9/11 |
| II | 19 | 17 | 18 | 16 | 14 | 13 | 10 |
| III | 20 | 18 | 19 | 17 | 15 | 14 | 11 |
| IV | 21 | 19 | 20 | 18 | 16 | 15 | 12 |
| V | 22 | 20 | 21 | 19 | 17 | 16 | 13 |
| VI | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| VII | 24 | 22 | 23 | 21 | 19 | 18 | 15 |
| VIII | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| IX | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| X | 27 | 25 | 26 | 24 | 22 | 21 | 18 |
| XI | 28 | SS 26 | 27 - | 25 - | 23 | 22 | 19 |
| XII | 29 - | 27 • | 28 | 26 | 24 - | 23 | 20 |
| XIII | 30 | 28 | 29 | 27 | 25 | 24 | 21 |
| XIV | 31 | 29 | 30 | 28 | 26 | 25 | 22 |
| XV | 1/6 | 30 | 31 | 29 | AE 27 | 26 |  |
| XVI | 2 | 1/7 | 1/8 | 30 | 28 | 27 |  |
| XVII | 3 | 2 | 2 | 31 | 29 | 28 |  |
| XVIII | 4 | 3 | 3 | 1/9 | 30 | 29 |  |
| XIX | 5 | 4 | 4 | 2 | 1/10 | 30 |  |
| XX | 6 | 5 | 5 | 3 | 2 | 31 |  |
| XXI | 7 | 6 | 6 | 4 | 3 | 1/11 |  |
| XXII | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XXIII | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XXIV | 10 | 9 | 9 | 7 | 6 | 4 |  |
| XXV | 11 | 10 | 10 | 8 | 7 | 5 |  |
| XXVI | 12 | 11 | 110 | 9 | 8 | 6 |  |
| XXVII | 13 - | $12 \bigcirc$ | 12 | 10 ○ | 90 | 7 |  |
| XXVIII | 14 | 13 | 13 | 11 | 10 | 8 |  |
| XXIX | 15 | 14 | 14 | 12 | 11 |  |  |
| XXX |  | 15 |  |  |  |  |  |
| XXXI |  | 16 |  |  |  |  |  |

C177 Consuls: C. Claudius Pulcher, Ti. Sempronius Gracchus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 178 | 178/7 | 177 | 177 | 177 | 177 | 177 |
| I |  | 10/12 | 8/1 | 8/2 | 8/3 | 8/4 | $7 / 5$ |
| II |  | 11 | 9 | 9 | 9 | 9 | 8 |
| III |  | 12 | 10 | 10 | 10 | 10 | 9 |
| IV |  | 13 | 11 | 11 | 11 | 11 | 10 |
| V |  | 14 | 12 | 12 | 12 | 12 | 11 |
| VI |  | 15 | 13 | 13 | 13 | 13 | 12 |
| VII |  | 16 | 14 | 14 | 14 | 14 | 13 |
| VIII |  | 17 | 15 | 15 | 15 | 15 | 14 |
| IX |  | 18 | 16 | 16 | 16 | 16 | 15 |
| X |  | 19 | 17 | 17 | $\cdot 17$ | 17 | 16 |
| XI |  | 20 | 18 | 18 | 18 | 18 - | 17 |
| XII |  | 21 | 19 | 19 - | 19 | 19 | 18 |
| XIII |  | 22 - | 20 | 20 | 20 • | 20 | 19 |
| XIV |  | 23 | 21 - | 21 | 21 | 21 | 20 |
| XV | 23/11 | ws 24 | 22 | 22 | 22 | 22 | 21 |
| XVI | 24 | 25 | 23 | 23 | 23 | 23 | 22 |
| XVII | 25 | 26 | 24 | 24 | VE 24 | 24 | 23 |
| XVIII | 26 | 27 | 25 | 25 | 25 | 25 | 24 |
| XIX | 27 | 28 | 26 | 26 | 26 | 26 | 25 |
| XX | 28 | 29 | 27 | 27 | 27 | 27 | 26 |
| XXI | 29 | 30 | 28 | 28 | 28 | 28 | 27 |
| XXII | 30 | 31 | 29 | 29 | 29 | 29 | 28 |
| XXIII | 1/12 | 1/1/177 | 30 | 1/3 | 30 | 30 | 29 |
| XXIV | 2 | 2 | 31 | 2 | 31 | 1/5 | 30 |
| XXV | 3 | 3 | 1/2 | 3 | 1/4 | 20 | 31 |
| XXVI | 4 | 4 | 2 | 40 | 2 | 3 | 1/6 |
| XXVII | 5 | 5 | 3 | 5 | 3 - | 4 | 2 |
| XXVIII | 6 | 60 | 40 | 6 | 4 | 5 | 3 |
| XXIX | 7 - | 7 | 5 | 7 | 5 | 6 | 4 |
| XXX | 8 | - | 6 |  | 6 |  |  |
| XXXI | 9 |  | 7 | 4 83 | 7 |  |  |

C177 Consuls: C. Claudius Pulcher, Ti. Sempronius Gracchus
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 177 | 177 | 177 | 177 | 177 | 177 | 177 |
| 1 | $5 / 6$ | 6/7 | 4/8 | 2/9 | 1/10 | 25/10 | 21/11 |
| II | 6 | 7 | 5 | 3 | 2 | 26 | 22 |
| III | 7 | 8 | 6 | 4 | 3 | 27 - | 23 |
| IV | 8 | 9 | 7 | 5 | 4 | 28 | 24 |
| V | 9 | 10 | 8 | 6 | 5 | 29 | 25 |
| VI | 10 | 11 | 9 | 7 | 6 | 30 | 260 |
| VII | 11 | 12 | 10 | 8 | 7 | 31 | 27 |
| VIII | 12 | 13 | 11 | 9 | 8 | $1 / 11$ | 28 |
| IX | 13 | 14 | 12 | 10 | 9 | 2 | 29 |
| X | 14 | 15 - | 13 | 11 | 10 | 3 | 30 |
| XI | 15 | 16 | 14 - | 12 | 11 | 4 | 1/12 |
| XII | 16 • | 17 | 15 | 13 | 12 - | 5 | 2 |
| XIII | 17 | 18 | 16 | 14 | 13 | 6 | 3 |
| XIV | 18 | 19 | 17 | 15 | 14 | 7 | 4 |
| XV | 19 | 20 | 18 | 16 | 15 | 8 |  |
| XVI | 20 | 21 | 19 | 17 | 16 | 9 |  |
| XVII | 21 | 22 | 20 | 18 | 17 | 10 - |  |
| XVIII | 22 | 23 | 21 | 19 | 18 | 11 |  |
| XIX | 23 | 24 | 22 | 20 | 19 | 12 |  |
| XX | 24 | 25 | 23 | 21 | 20 | 13 |  |
| XXI | 25 | 26 | 24 | 22 | 21 | 14 |  |
| XXII | Ss 26 | 27 | 25 | 23 | 22 | 15 |  |
| XXIII | 27 | 28 | 26 | 24 | 23 | 16 |  |
| XXIV | 28 | 29 | 27 | 25 | 24 | 17 |  |
| XXV | 29 | $30 \bigcirc$ | 28 | AE 26 |  | 18 |  |
| XXVI | 30 ○ | 31 | 290 | $27 \quad 0$ |  | 19 |  |
| XXVII | 1/7 | 1/8 | 30 | 28 |  | 20 |  |
| XXVIII | 2 | 2 | 31 | 29 |  |  |  |
| XXIX | 3 | 3 | 1/9 | 30 |  |  |  |
| XXX | 4 |  |  |  |  |  |  |
| XXXI | 5 |  |  |  | \% |  |  |

C176 Consuls: Cn. Cornelius Scipio, Q. Petilius Spurinus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 177 | $177 / 6$ | 176 | 176 | 176 | 176 |
| I |  | 22/12 | 20/1 | 20/2 | 21/3 | 21/4 |
| II |  | ws 23 | 21 | 21 | 22 | 22 |
| III |  | 24 | 22 | 22 | 23 - | 23 |
| IV |  | 250 | 23 | 23 | VE 24 | 24 |
| V |  | 26 | 24 ○ | 24 | 25 | 25 |
| VI |  | 27 | 25 | 25 | 26 | 26 |
| VII |  | 28 | 26 | 26 | 27 | 27 |
| VIII |  | 29 | 27 | 27 | 28 | 28 |
| IX |  | 30 | 28 | 28 | 29 | 29 |
| X |  | 31 | 29 | 1/3 | 30 | 30 |
| XI |  | 1/1/176 | 30 | 2 | 31 | 1/5 |
| XII |  | 2 | 31 | 3 | 1/4 | 2 |
| XIII |  | 3 | 1/2 | 4 | 2 | 3 |
| XIV |  | 4 | 2 | 5 | 3 | 4 |
| XV | 5/12 | 5 | 3 | 6 | 4 | 5 |
| XVI | 6 | 6 | 4 | 7 | 5 | 6 |
| XVII | 7 | 7 | 5 | 8 | 6 | 7 |
| XVIII | 8 | 8 | 6 | 9 | 7 | 8 |
| XIX | 9 | $9 \quad$ - | $7 \quad \bullet$ | 10 | 8 - | 9 |
| XX | 10 | 10 | 8 | 11 | 9 | 10 |
| XXI | 11 | 11 | 9 | 12 | 10 | 11 |
| XXII | 12 | 12 | 10 | 13 | 11 | 12 |
| XXIII | 13 | 13 | 11 | 14 | 12 | 13 |
| XXIV | 14 | 14 | 12 | 15 | 13 | 14 |
| XXV | 15 | 15 | 13 | 16 | 14 | 15 |
| XXVI | 16 | 16 | 14 | 17 | 15 | 16 |
| XXVII | 17 | 17 | 15 | 18 | 16 | 17 |
| XXVIII | 18 | 18 | 16 | 19 | 17 | 18 |
| XXIX | 19 | 19 | 17 | 20 | 18 | 19 |
| XXX | 20 |  | 18 |  | 19 |  |
| XXXI | 21 |  | 19 |  | 20 |  |

C176 Consuls: Cn. Cornelius Scipio, Q. Petilius Spurinus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 176 | 176 | 176 | 176 | 176 | 176 | 176 |
| I | 20/5 | 18/6 | $19 / 70$ | 17/8 | 15/9 | 14/10 | 11/11 |
| II | 210 | 19 | 20 | 18 O | $16 \quad 0$ | 15 | 12 |
| III | 22 | 20 - | 21 | 19 | 17 | 16 ○ | 13 |
| IV | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| V | 24 | 22 | 23 | 21 | 19 | 18 | 15 |
| VI | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| VII | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| VIII | 27 | 25 | 26 | 24 | 22 | 21 | 18 |
| IX | 28 | Ss 26 | 27 | 25 | 23 | 22 | 19 |
| X | 29 | 27 | 28 | 26 | 24 | 23 | 20 |
| XI | 30 | 28 | 29 | 27 | 25 | 24 | 21 |
| XII | 31 | 29 | 30 | 28 | AE 26 | 25 | 22 |
| XIII | 1/6 | 30 | 31 | 29 | 27 | 26 | 23 |
| XIV | 2 | 1/7 | 1/8 | 30 | 28 | 27 | 24 |
| XV | 3 | 2 | 2 | 31 | 29 | 28 |  |
| XVI | 4 | 3 | 3 - | 1/9 | 30 | 29 |  |
| XVII | 5 | 4 | 4 | 2 - | 1/10 ${ }^{\text {- }}$ | 30 |  |
| XVIII | 6 • | 5 • | 5 | 3 | 2 | 31 - |  |
| XIX | 7 | 6 | 6 | 4 | 3 | 1/11 |  |
| XX | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XXI | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XXII | 10 | 9 | 9 | 7 | 6 | 4 |  |
| XXIII | 11 | 10 | 10 | 8 | 7 | 5 |  |
| XXIV | 12 | 11 | 11 | 9 | 8 | 6 |  |
| XXV | 13 | 12 | 12 | 10 | 9 | 7 |  |
| XXVI | 14 | 13 | 13 | 11 | 10 | 8 |  |
| XXVII | 15 | 14 | 14 | 12 | 11 | 9 |  |
| XXVIII | 16 | 15 | 15 | 13 | 12 | 10 |  |
| XXIX | 17 | 16 | 16 | 14 | 13 |  |  |
| XXX | , | 17 | $\cdots$ |  |  |  |  |
| XXXI |  | 18 |  |  |  |  |  |

C175 Consuls: P. Mucius Scaevola, M. Aemilius Lepidus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 176 | 176/5 | 175 | 175 | 175 | 175 | 175 |
| I |  | 12/12 | $10 / 1$ | 10/2 | 11/3 | 11/4 0 | 10/5 |
| II |  | 13 | 11 | 11 | 12 | 12 | 110 |
| III |  | 14 | 12 | 120 | $13 \bigcirc$ | 13 | 12 |
| IV |  | 150 | 13 - | 13 | 14 | 14 | 13 |
| V |  | 16 | 14 | 14 | 15 | 15 | 14 |
| VI |  | 17 | 15 | 15 | 16 | 16 | 15 |
| VII |  | 18 | 16 | 16 | 17 | 17 | 16 |
| VIII |  | 19 | 17 | 17 | 18 | 18 | 17 |
| IX |  | 20 | 18 | 18 | 19 | 19 | 18 |
| X |  | 21 | 19 | 19 | 20 | 20 | 19 |
| XI |  | 22 | 20 | 20 | 21 | 21 | 20 |
| XII |  | 23 | 21 | 21 | 22 | 22 | 21 |
| XIII |  | ws 24 | 22 | 22 | 23 | 23 | 22 |
| XIV |  | 25 | 23 | 23 | VE 24 | 24 | 23 |
| XV | 25/11 | 26 | 24 | 24 | 25 | 25 | 24 |
| XVI | 26 | 27 | 25 | 25 | 26 | 26 - | 25 |
| XVII | 27 | 28 | 26 | 26 • | 27 | 27 | 26 - |
| XVIII | 28 | 29 - | 27 - | 27 | 28 - | 28 | 27 |
| XIX | 29 - | 30 | 28 | 28 | 29 | 29 | 28 |
| XX | 30 | 31 | 29 | 1/3 | 30 | 30 | 29 |
| XXI | 1/12 | 1/1/175 | 30 | 2 | 31 | 1/5 | 30 |
| XXII | 2 | 2 | 31 | 3 | 1/4 | 2 | 31 |
| XXIII | 3 | 3 | 1/2 | 4 | 2 | 3 | 1/6 |
| XXIV | 4 | 4 | 2 | 5 | 3 | 4 | 2 |
| XXV | 5 | 5 | 3 | 6 | 4 | 5 | 3 |
| XXVI | 6 | 6 | 4 | 7 | 5 | 6 | 4 |
| XXVII | 7 | 7 | 5 | 8 | 6 | 7 | 5 |
| XXVIII | 8 | 8 | 6 | 9 | 7 | 8 | 6 |
| XXİ: | 9 | 9 | 7 | 10 | 8 | 9 | 7 |
| XXX | 10 |  | 8 |  | 9 |  | \% |
| XXXI | 11 |  | 9 |  | 10 |  |  |

C175 Consuls: P. Minucius Scaevola, M. Aemilius Lepidus

|  | OCT | NOV | DEC. | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 175 | 175 | 175 | 175 | 175 | 175 | $17 \%$ |
| I | 8/6 | $9 / 7$ | $7 / 8 \bigcirc$ | 5/9 | 4/10 | 27/10 | $\cdots$ |
| II | 90 | 10 | 8 | 60 | 50 | 28 | 24 |
| III | 10 | 11 | 9 | 7 | 6 | 29 | 25 |
| IV | 11 | 12 | 10 | 8 | 7 | 30 | 26 |
| V | 12 | 13 | 11 | 9 | 8 | 31 | 27 |
| VI | 13 | 14 | 12 | 10 | 9 | 1/11 | 28 |
| VII | 14 | 15 | 13 | 11 | 10 | 2 | 29 |
| VIII | 15 | 16 | 14 | 12 | 11 | 3 | 30 |
| IX | 16 | 17 | 15 | 13 | 12 | 40 | $1 / 12$ |
| X | 17 | 18 | 16 | 14 | 13 | 5 | 2 |
| XI | 18 | 19 | 17 | 15 | ! 4 | 6 | 3 |
| XII | 19 | 20 | 18 | 16 | 15 | 7 |  |
| XIII | 20 | 21 | 19 | 17 | 16 | 8 | 5 |
| XIV | 21 | 22 | 20 | 18 | 17 | 9 | 6 |
| XV | 22 | 23 | 21 | 19 | 18 | 10 |  |
| XVI | 23 | 24 | 22 - | 20 | 19 | 11 |  |
| XVII | 24 | 25 | 23 | 21 - | 20 • | 12 |  |
| XVIII | 25 - | 26 | 24 | 22 | 21 | 13 |  |
| XIX | SS 26 | 27 | 25 | 23 | 22 | 14 |  |
| XX | 27 | 28 | 26 | 24 | 23 | 15 |  |
| XXI | 28 | 29 | 27 | 25 | 24 | 16 |  |
| XXII | 29 | 30 | 28 | AE 26 | 25 | 17 |  |
| XXIII | 30 | 31 | 29 | 27 | 26 | 18 |  |
| XXIV | 1/7 | 1/8 | 30 | 28 |  | 19 - |  |
| XXV | 2 | 2 | 31 | 29 |  | 20 |  |
| XXVI | 3 | 3 | 1/9 | 30 |  | 21 |  |
| XXVII | 4 | 4 | 2 | 1/10 |  | 22 |  |
| XXVIII | 5 | 5 | 3 | 2 |  |  |  |
| XXIX | 6 | 6 | 4 | 3 |  |  |  |
| XXX | 7 |  |  |  |  |  |  |
| XXXI | 8 - |  |  |  |  |  |  |

C174 Consuls: Sp. Postumius Albinus, Q. Mucius Scaevola

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 175 | 175/4 | 174 | 174 | 174 | 174 |
| I |  | wS24/12 | 22/1 | 22/2 | 23/3 | 23/4 |
| II |  | 25 | 23 | 23 | VE 24 | 24 |
| III |  | 26 | 24 | 24 | 25 | 25 |
| IV |  | 27 | 25 | 25 | 26 | 26 |
| V |  | 28 | 26 | 26 | 27 | 27 |
| VI |  | 29 | 27 | 27 | 28 | 28 |
| VII |  | 30 | 28 | 28 | 29 | 29 |
| VIII |  | 31 | 29 | 1/3 | 30 | 30 |
| IX |  | 1/1/174 | 30 | 2 | 31 | $1 / 5$ |
| X |  | 2 | 31 | 30 | $1 / 4 \quad 0$ | 2 |
| XI |  | 30 | $1 / 2 \quad 0$ | 4 | 2 | 3 |
| XII |  | 4 | 2 | 5 | 3 | 4 |
| XIII |  | 5 | 3 | 6 | 4 | 5 |
| XIV |  | 6 | 4 | 7 | 5 | 6 |
| XV | $7 / 12$ | 7 | 5 | 8 | 6 | 7 |
| XVI | 8 | 8 | 6 | 9 | 7 | 8 |
| XVII | 9 | 9 | 7 | 10 | 8 | 9 |
| XVIII | 10 | 10 | 8 | 11 | 9 | 10 |
| XIX | 11 | 11 | 9 | 12 | 10 | 11 |
| XX | 12 | 12 | 10 | 13 | 11 | 12 |
| XXI | 13 | 13 | 11 | 14 | 12 | 13 |
| XXII | 14 | . | 12 | 15 | 13 | 14 |
| XXIII | 15 | 15 | 13 | 16 | 14 | 15 |
| XXIV | 16 | 16 | 14 | 17. $\bullet$ | 15 - | 16 |
| XXV | 17 | $17 \quad$ | 15 • | 18 | 16 | 17 |
| XXVI | 18 | 18 | 16 | 19 | 17 | 18 |
| XXVII | 19 | 19 | 17 | 20 | 18 | 19 |
| XXVIII | 20 | 20 | 18 | 21 | 19 | 20 |
| XXIX | 21 | 21 | 19 | 22 | 20 | 21 |
| XXX | 22 |  | 20 |  | 21 |  |
| XXXI | 23 |  | 21 |  | 22 |  |

C174 Consuls: Sp. Postumius Albinus, Q. Mucius Scaevgla

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 174 | 174. | 174 | 174 | 174. | 174 | 174 |
| I | $22 / 5$ | 20/6 | 21/7 | 19/8 | $17 / 9$ | 16/10 | 13/11 |
| II | 23 | 21 | 22 | 20 | 18 | 17 | 14 |
| III | 24 | 22 | 23 | 21 | 19 | 18 | 15 |
| IV | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| V | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| VI | 27 | 25 | 26 | 24 | 22 | 21 | 18 |
| VII | 28 | ss 26 | 270 | 25 | 23 | 22 | 19 |
| VIII | 29 | 27 | 28 | 260 | 24 ○ | $2 ?$ | 20 |
| IX | $30 \quad 0$ | 28 O | 29 | 27 | 25 | 24 | 21 |
| X | 31 | 29 | 30 | 28 | 26 | 25 | 22 |
| XI | 1/6 | 30 | 31 | 29 | AE 27 | 26 | 23 |
| XII | 2 | 1/7 | 1/8 | 30 | 28 | 27 | 24 |
| XIII | 3 | 2 | 2 | 31 | 29 | 28 | 25 |
| XIV | 4 | 3 | 3 | 1/9 | 30 | 29 | 26 |
| XV | 5 | 4 | 4 | 2 | 1/10 | 30 |  |
| XVI | 6 | 5 | 5 | 3 | 2 | 31 |  |
| XVII | 7 | 6 | 6 | 4 | 3 | 1/11 |  |
| XVIII | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XIX | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XX | 10 | 9 | 9 | 7 | 6 | 4 |  |
| XXI | 11 | 10 | 10 | 8 | 7 | 5 |  |
| XXII | 12 | 11 | 11 | 9 | 8 | 6 |  |
| XXIII | 13 | 12 | 12 - | 10 - | 9 | 7 |  |
| 2IV | 14 - | 13 - | 13 | 11 | 10 - | 8 |  |
| XX. | 15 | 14 | 14 | 12 | 11 | 9 |  |
| XXVI | 16 | 15 | 15 | 13 | 12 | 10 |  |
| XXVII | 17 | 16 | 16 | 14 | 13 | 11 |  |
| XXVIII | 18 | 17 | 17 | 15 | 14 | 12 |  |
| XXIX | 19 | 18 | 18 | 16 | 15 |  |  |
| XXX |  | 19 |  |  |  |  |  |
| XXXI |  | 20 |  |  |  |  |  |

C173 Consuls: L. Postumius Albinus, M. i vpillius Laenas

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 174 | 174/3 | 173 | 173 | 173. | 173 | 173 |
| I | : | 14/12 | 12/1 | 12/2 | 12/3 | 12/4 | 11/5 |
| II |  | 1 15 | 13 | 13 | 13 | 13 | 12 |
| III |  | 16 | 14 | 14 | 14 | 14 | 13 |
| IV |  | 17 | 15 | 15 | 15 | 15 | 14 |
| V |  | 18 | 16 | 16 | 16 | 16 | 15 |
| VI |  | 19 | 17 | 17 | 17 | 17 | 16 |
| VII |  | 20 | 18 | 18 | 18 | 18 | 17 |
| VIII |  | 21 | 19 | 19 | 19 | $19 \bigcirc$ | 18 |
| IX |  | 22 | 20 | 20 ○ | 20 | 20 | 19 |
| X |  | 230 | 210 | 21 | 21.0 | 21 | 20 |
| XI |  | ws 24 | 22 | 22 | 22 | 22 | 21 |
| XII |  | 25 | 23 | 23 | VE 23 | 23 | 22. |
| XIII |  | 26 | 24 | 24 | 24 | 24 | 23 |
| XIV |  | 27 | 25 | 25 | 25 | 25 | 24 |
| XV | 27/11 | 28 | 26 | 26 | 26 | 26 | 25 |
| XVI | 28 | 29 | 27 | 27 | 27 | 27 | 26 |
| XVII | 29 | 30 | 28 | 28 | 28 | 28 | 27 |
| XVIII | 30 | 31 | 29 | 29 | 29 | 29 | 28 |
| XIX | 1/12 | 1/1/173 | 30 | 1/3 | 30 | 30 | 29 |
| XX | 2 | 2 | 31 | 2 | 31 | 1/5 | 30 |
| XXI | 3 | 3 | 1/2 | 3 | 1/4 | 2 | 31 |
| XXII | 4 | 4 | 2 | 4 | 2 | 3 - | 1/6 |
| XXIII | 5 | 5 | 3 | 5 - | 3 | 4 | 2 |
| XXIV | 6 | 6 • | 4 | 6 | 4 - | 5 | 3 |
| XXV | 7 | 7 | 5 • | 7 | 5 | 6 | 4 |
| XXVI | 8 - | 8 | 6 | 8 | 6 | 7 | 5 |
| XXVII | 9 | 9 | 7 | 9 | 7 | 8 | 6 |
| XXVIII | 10 | 10 | 8 | 10 | 8 | 9 | 7 |
| XXIX | 11 | 11 | 9 | 11 | 9 | 10 | 8 |
| XXX | 12 |  | 10 |  | 10 |  |  |
| XXXI | 13 |  | 11 |  | 11 |  |  |

C173 Consuls: L. Postumius Aibinus, M. Popillius Laenas
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 173 | 173 | 173 | 173 | 173 | 173 | 173 |
| 1 | $9 / 6$ | 10/7 | 8/8 | 6/9 | 5110 | 29/10 | 25/11 |
| II | 10 | 11 | 9 | 7 | 6 | 30 | 26 • |
| III | 11 | 12 | 10 | 8 | 7 | 31 | 27 |
| IV | 12 | 13 | 11 | 9 | 8 | 1/11 | 28 |
| V | 13 | 14 | 12 | 10 | 9 | 2 | 29 |
| VI | 14 | 15 | 13 | 11 | 10 | 3 | 30 |
| VII | 15 | 16 ○ | 14 ○ | 12 | 11 | 4 | 1/12 |
| VIII | 16 | 17 | 15 | $13 \bigcirc$ | $12 \bigcirc$ | 5 | 2 |
| IX |  | 18 | 16 | 14 | 13 | 6 | 3 |
| X | 18 | 19 | 17 | 15 | 14 | 7 | 4 |
| XI | 19 | 20 | 18 | 16 | 15 | 8 | 5 |
| XII | 20 | 21 | 19 | 17 | 16 | 9 | 6 |
| XIII | 21 | 22 | 20 | 18 | 17 | 10 | 7 |
| XIV | 22 | 23 | 21 | 19 | 18 | 11 - | 8 |
| XV | 23 | 24 | 22 | 20 | 19 | 12 |  |
| XVI | 24 | 25 | 23 | 21 | 20 | 13 |  |
| XVII | 25 | 26 | 24 | 22 | 21 | 14 |  |
| XVIII | ss 26 | 27 | 25 | 23 | 22 | 15 |  |
| XIX | 27 | 28 | 26 | 24 | 23 | 16 |  |
| XX | 28 | 29 | 27 | 25 | 24 | 17 |  |
| XXI | 29 | 30 | 28 | AE 26 | 25 | 18 |  |
| XXII | 30 | 31 - | 29 | 27 | 26 | 19 |  |
| XXIII | 1/7 | 1/8 | 30 - | 28. | 27 | 20 |  |
| XXIV | 2 | 2 | 31 | 29 | 28. | 21 |  |
| XXV | 3 | 3 | 1/9 | 30 |  | 22 |  |
| XXVI | 4 | 4 | 2 | 1/10 |  | 23 |  |
| XXVII | 5 | 5 | 3 | 2 |  | 24 |  |
| XXVIII | 6 | 6 | 4 | 3 |  |  |  |
| XXIX | 7 | 7 | 5 | 4 |  |  |  |
| xXX | 8 |  |  |  |  | \% |  |
| XXXI | 9 |  |  |  |  |  |  |

C172 Consuls: C. Popillius Laenas, P. Aelius Ligus

| . | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| . | 173 | 173/2 | 172 | 172 | 172 | 172 |
| I. |  | . 26/12 - | 24/1 | 24/2 | 25/3 | 25/4 |
| II |  | 27 | 25 | 25 | 26 | 26 |
| III |  | 28 | 26 | 26 | 27 | 27 |
| IV |  | 29 | 27 | 27 | 28 | 28 |
| V |  | 30 | 28 | 28 | 29 | 29 |
| VI |  | 31 | 29 | 1/3 | 30 | 30 |
| VII |  | 1/1/172 | 30 | 2 | 31 | 1/5 |
| VIII |  | 2 | 31 | 3 | 1/4 | 2 |
| IX |  | 3 | 1/2 | 4 | 2 | 3 |
| X |  | 4 | 2 | 5 | 3 | 4 |
| XI |  | 5 | 3 | 6 | 4 | 5 |
| XII |  | 6 | 4 | 7 | 5 | 6 |
| XIII |  | 7 | 5 | 8 | 6 | 7 |
| XIV |  | 8 | 6 | 9 | 7 | 8 ○ |
| XV | $9 / 12$ | $9 \quad 0$ | 7 | $10 \quad 0$ | 8 | 9 |
| XVI | 10 | 10 | 8 \% | 11 | $9 \quad 0$ | 10 |
| XVII | $11 \bigcirc$ | 11 | 9 | 12 | 10 | 11 |
| XVIII | 12 | 12 | 10 | 13 | 11 | 12 |
| XIX | 13 | 13 | 11 | 14 | 12 | 13 |
| XX | 14 | 14 | 12 | 15 | 13 | 14 |
| XXI | 15 | 15 | 13 | 16 | 14 | 15 |
| XXII | 16 | 16 | 14 | 17 | 15 | 16 |
| XXIII | 17 | 17 | 15 | 18 | 16 | 17 |
| XXIV | 18 | 18 | 16 | 19 | 17 | 18 |
| XXY | 19 | 19 | 17 | 20 | 18 | 19 |
| XXVI | 20 | 20 | 18 | 21 | 19 | 20 |
| XXVII | 21 | 21 | 19 | 22 | 20 | 21 |
| XXVIII | 22 | 22 | 20 | 23 | 21 | $22 \cdot$ |
| XXIX | ws 23 | 23 | 21 | VE 24 • | 22 - | 23 |
| XXX | 24 |  | 22 |  | 23 |  |
| XXXI | 25 |  | 23 - |  | 24 |  |

C172 Consuls: C. Popillius Laenas, P. Aelius Ligus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 172 | 172 | 172 | 172 | 172 | 172 | 172 |
| I | 24/5 | 22/6 | 23/7 | 21/8 | $19 / 9$ | 18/10 | 15/11 |
| II | 25 | 23 | 24 | 22 | 20 | 19 | 16 |
| III | 26 | 24 | 25 | 23 | 21 | 20 | 17 |
| IV | 27 | 25 | 26 | 24 | 22 | 21 | 18 |
| V | 28 | ss 26 | 27 | 25 | 23 | 22 | 19 |
| VI | 29 | 27 | 28 | 26 | 24 | 23 | 20 |
| VII | 30 | 28 | 29 | 27 | 25 | 24 | 21 |
| VIII | 31 | 29 | 30 | 28 | AE 26 | 25 | 22 |
| IX | 1/6 | 30 | 31 | 29 | 27 | 26 | 23 |
| X | 2 | 1/7 | 1/8 | 30 | 28 | 27 | 24 |
| XI | 3 | 2 | 2 | 31 | 29 | 28 | 25 |
| XII | 4 | 3 | 3 | 1/9 | 30 | 29 | 26 |
| XIII | 5 | 4 | 40 | 20 | 1/10 | 30 | 27 |
| XIV | 60 | 5 | 5 | 3 | 20 | 310 | 28 |
| XV | 7 | 60 | 6 | 4 | 3 | 1/11 |  |
| XVI | 8 | 7 | 7 | 5 | 4 | 2 |  |
| XVII | 9 | 8 | 8 | 6 | 5 | 3 |  |
| XVIII | 10 | 9 | 9 | 7 | 6 | 4 |  |
| XIX | 11 | 10 | 10 | 8 | 7 | 5 |  |
| XX | 12 | 11 | 11 | 9 | 8 | 6 |  |
| XXI | 13 | 12 | 12 | 10 | 9 | 7 |  |
| XXII | 14 | 13 | 13 | 11 | 10 | 8 |  |
| XXIII | 15 | 14 | 14 | 12 | 11 | 9 |  |
| XXIV | 16 | 15 | 15 | 13 | 12 | 10 |  |
| XXV | 17 | 16 | 16 | 14 | 13 | 11 |  |
| XXVI | 18 | 17 | 17 | 15 | 14 | 12 |  |
| XXVII | 19 | 18 | 18 - | 16 | 15 | 13 |  |
| XXVIEI | 20 - | 19 | 19 | 17 - | 16 | 14 |  |
| XXIX | 21 | 20 • | 20 | 18 | 17 • |  |  |
| XXX |  | 21 | < |  |  |  |  |
| XXXI |  | 22 | \% |  |  |  |  |

C171 Consuls: P. Licinius Crassus, C. Cassius Longinus.

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 172 | 172/1 | 171 | 171 | 171 | 171 | 171 |
| 1 |  | 16/12 | 14/1 | 14/2 | 15/3 | 15/4 | 14/5 |
| II |  | 17 | 15 | 15 | 16 | 16 | 15 |
| III |  | 18 | 16 | 16 | 17 | 17 | 16 |
| IV |  | 19 | 17 | 17 | 18 | 18 | 17 |
| V |  | 20 | 18 | 18 | 19 | 19 | 18 |
| VI |  | 21 | 19 | 19 | 20 | 20 | 19 |
| VII |  | 22 | 20 | 20 | 21 | 21 | 20 |
| VIII |  | 23 | 21 | 21 | 22 | 22 | 21 |
| IX |  | WS 24 | 22 | 22 | 23 | 23 | 22 |
| X |  | 25 | 23 | 23 | VE 24 | 24 | 23 |
| XI |  | 26 | 24 | 24 | 25 | 25 | 24 |
| XII |  | 27 | 25 | 25 | 26 | 26 | 25 |
| XIII |  | 28 | 26 | 26 | 27 | 27 ○ | 26 |
| XIV |  | 290 | 27 | $27 \quad 0$ | 28 | 28 | 27 - |
| XV | 29/11 | 30 | $28 \bigcirc$ | 28 | $29 \quad 0$ | 29 | 28 |
| XVI | $30 \quad 0$ | 31 | 29 | 1/3 | 30 | 30 | 29 |
| XVII | 1/12 | 1/1/171 | 30 | 2 | 31 | 1/5 | 30 |
| XVIII | 2 | 2 | 31 | 3 | 1/4 | 2 | 31 |
| XIX | 3 | 3 | 1/2 | 4 | 2 | 3 | 1/6 |
| XX | 4 | 4 | 2 | 5 | 3 | 4 | 2 |
| XXI | 5 | 5 | 3 | 6 | 4 | 5 | 3 |
| XXII | 6 | 6 | 4 | 7 | 5 | 6 | 4 |
| XXIII | 7 | 7 | 5 | 8 | 6 | 7 | 5 |
| XXIV | 8 | 8 | 6 | 9 | 7 | 8 | 6 |
| XXV | 9 | 9 | 7 | 10 | 8 | 9 | 7 |
| XXVI | 10 | 10 | 8 | 11 | 9 | 10 | 8 |
| XXVII | 11 | 11 | 9 | 12 | 10 | 11 - | 9 |
| XXVIII | 12 | 12 | 10 | 13 | 11 | 12 | $10 \cdot$ |
| XXIX | 13 | 13 | 11 | $14 \bullet$ | 12 - | 13 | 11 |
| XXX | 14 | - | $12 \cdot$ |  | 13 |  |  |
| XXXI | 15 - | \% $\quad$ ? | 13 |  | 14 | \% |  |

C171 Consuls: P. Licinius Crassus, C. Cassius Longinus
(Intercal. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 171 | 171 | 171 | 171 | 171 | 171 | 171 |
| I | 12/6 | $13 / 7$ | 11/8 | $9 / 9$ | 8/10 | 31/10 | $27 / 11$ |
| II | 13 | 14 | 12 | 10 | 9 | 1/11 | 28 |
| III | 14 | 15 | 13 | 11 | 10 | 2 | 29 |
| IV | 15 | 16 | 14 | 12 | 11 | 3 | 30 |
| v | 16 | $1 ?$ | 15 | 13 | 12 | 4 | 1/12 |
| VI | 17 | 18 | 16 | 14 | 13 |  | 2 |
| VII | 18 | 19 | 17 | 15 | 14 | 6 | 3 |
| VIII | 19 | 20 | 18 | 16 | 15 | 7 | 4 |
| IX | 20 | 21 | 19 | 17 | 16 | 8 | 5 - |
| X | 21 | 22 | 20 | 18 | 17 | 9 | 6 |
| XI | 22 | 23 | 21 | 19 | 18 | 10 | 7 |
| XII | 23 | 24 | 22 | 20 | 19 | 11 | 8 |
| XIII | 24 | 250 | 230 | $21 \bigcirc$ | 20 | 12 | 9 |
| xiv |  | 26 | 24 | 22 | $21 \bigcirc$ | 13 | 10 |
| XV | ss 26 | 27 | 25 | 23 | 22 | 14 |  |
| XVI | 27 | 28 | 26 | 24 | 23 | 15 |  |
| XVII | 28 | 29 | 27 | 25 | 24 | 16 |  |
| XVIII | 29 | 30 | 28 | AE 26 | 25 | 17 |  |
| XIX | 30 | 31 | 29 | 27 | 26 | 18 |  |
| XX | $1 / 7$ | 1/8 | 30 | 28 | 27 | 19 - |  |
| XXI | 2 | 2 | 31 | 29 | 28 | 20 |  |
| XXII | 3 | 3 | 1/9 | 30 | 29 | 21 |  |
| XxIII | 4 | 4 | 2 | 1/10 | 30 | 22 |  |
| xxiv | 5 | 5 | 3 | 2 |  | 23 |  |
| XXV | 6 | 6 | 4 | 3 |  | 24 |  |
| Xxvi | 7 | 7 | 5 | 4 |  | 25 |  |
| XXVII | 8 |  | 6 - | 5 |  | 26 |  |
| XXVIII |  | 9 | 7 | 6 * |  |  |  |
| XxIX | 10 | 10 | 8 | 7 |  |  |  |
| xxx | 11 |  |  |  |  |  |  |
| YXXI | 12 |  |  |  |  |  |  |

C170 Consuls: A. Hostilius Mancinus, A. Atilius Serranus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 171 | 171/0 | 170 | 170 | 170 | 170 | 170 |
| I |  | 28/12 | 26/1 | 26/2 | 27/3 | 27/4 | 26/5 |
| II |  | 29 | 27 | 27 | 28 | 28 | 27 |
| III |  | 30 | 28 | 28 | 29 | 29 | 28 |
| IV |  | 31 | 29 | 1/3 | 30 | 30 | 29 |
| V |  | 1/1/170 | 30 | 2 | 31 | $1 / 5$ - | 30 - |
| VI |  | 2 | 31 | 3 • | 1/4 | 2 | 31 |
| VII |  | 3 • | 1/2 | 4 | 2 - | 3 | 1/6 |
| VIII |  | 4 | 2 • | 5 | 3 | 4 | 2 |
| IX |  | 5 | 3 | 6 | 4 | 5 | 3 |
| X |  | 6 | 4 | 7 | 5 | 6 | 4 |
| XI |  | 7 | 5 | 8 | 6 | 7 | 5 |
| XII |  | 8 | 6 | 9 | 7 | 8 | 6 |
| XIII |  | 9 | 7 | 10 | 8 | 9 | 7 |
| XIV |  | 10 | 8 | 11 | 9 | 10 | 8 |
| XV | 11/12 | 11 | 9 | 12 | 10 | 11 | 9 |
| XVI | 12 | 12 | 10 | 13 | 11 | 12 | 10 |
| XVII | 13 | 13 | 11 | 14 | 12 | 13 | 11 |
| XVIII | 14 | 14 | 12 | 15 | 13 | 14 | 12 |
| XIX | 15 | 15 | 13 | 16 | 14 | 15 | 13 |
| XX | 16 | 16 | 14 | 17 | 15 | $16 \quad 0$ | 14 |
| XXI | 17 | $17 \bigcirc$ | 15 | $18 \quad 0$ | $16 \quad 0$ | 17 | 150 |
| XXII | 18 | 18 | 160 | 19 | 17 | 18 | 16 |
| XXIII | $19 \bigcirc$ | 19 | 17 | 20 | 18 | 19 | 17 |
| XXIV | 20 | 20 | 18 | 21 | 19 | 20 | 18 |
| XXV | 21 | 21 | 19 | 22 | 20 | 21 | 19 |
| XXVI | 22 | 22 | 20 | 23 | 21 | 22 | 20 |
| XXVII | 23 | 23 | 21 | VE 24 | 22 | 23 | 21 |
| XXVIII | wS 24 | 24 | 22 | 25 | 23 | 24 | 22 |
| XXIX | 25 | 25 | 23 | 26 | 24 | 25 | 23 |
| XXX | 26 |  | 24 |  | 25 |  |  |
| XXXI | 27 | $\because$ | 25 |  | 26 |  |  |

C170 Consuls: A. Hostilius Mancinus, A. Atilius Serranus
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| I | 24/6 | 25/7 | 23/8 | 21/9 | 20/10 | 13/11 | 10/12 |
| II | 25 | 26 | 24 | 22 | 21 | 14 | 11 |
| III | Ss 26 | 27 | 25 | 23 | 22 | 15 | 12 |
| IV | 27 | 28 • | 26 | 24 | 23 | 16 | 13 |
| V | 28 | 29 | 27 - | 25 - | 24 | 17 | 14 |
| VI | 29 - | 30 | 28 | 26 | 25 | 18 | 15 |
| VII | 30 | 31 | 29 | AE 27 | 26 | 19 | 16 |
| VIII | 1/7 | 1/8 | 30 | 28 | 27 | 20 | 17 |
| IX | 2 | 2 | 31 | 29 | 28 | 21 | 18 |
| X | 3 | 3 | 1/9 | 30 | 29 | 22 | 19 |
| XI | 4 | 4 | 2 | 1/10 | 30 | 23 | 20 |
| XII | 5 | 5 | 3 | 2 | 31 | 24 - | 21 |
| XIII | 6 | 6 | 4 | 3 | 1/11 | 25 | 22 |
| XIV | 7 | 7 | 5 | 4 | 2 | 26 | 23 |
| XV | 8 | 8 | 6 | 5 | 3 | 27 |  |
| XVI | 9 | 9 | 7 | 6 | 4 | 28 |  |
| XVII | 10 | 10 | 8 | 7 | 5 | 29 |  |
| XVIII | 11 | 11 | 9 | 8 | 6 | 30 |  |
| XIX | 12 | 12 | 10 | 9 | 7 | 1/12 |  |
| XX | 13 | 130 | 110 | 10 | 8 | 2 |  |
| XXI | 14 ○ | 14 | 12 | 11 O | 9 | 3 |  |
| XXII | 15 | 15 | 13 | 12 | 10 | 4 |  |
| XXIII | 16 | 16 | 14 | 13 | 11 | 5 |  |
| XXIV | 17 | 17 | 15 | 14 | 12 | 6 |  |
| XXV | 18 | 18 | 16 | 15 |  | 7 |  |
| XXVI | 19 | 19 | 17 | 16 |  | 80 |  |
| XXVII | 20 | 29 | 18 | 17 | * | 9 |  |
| XXVIII | 21 | 21 | 19 | 18 |  |  |  |
| XXIX | 22 | 22 | 20 | 19 | \% |  |  |
| XXX | 23 |  |  |  |  |  |  |
| XXXI | 24 |  |  |  |  |  |  |

C169 Consuls: Q. Marcius Philippus, Cn. Servilius Caepio

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 170/69 | 169 | 169 | 169 | 169 | 169 | 169 |
| I |  | 10/1 | 8/2 | 10/3 | 8/4 | $9 / 5$ | $7 / 6$ |
| II |  | 11 | 9 | 11 | 9 | 10 | 8 |
| III |  | 12 | 10 | 12 | 10 | 11 | 9 |
| IV |  | 13 | 11 | 13 | 11 | 12 | 10 |
| V |  | 14 | 12 | 14 | 12 | 13 | 11 |
| VI |  | 15 | 13 | 15 | 13 | 14 | 12 |
| VII |  | 16 | 14 | 16 | 14 | 15 | 13 |
| VIII |  | 17 | 15 | 17 | 15 | 16 | 14 |
| IX |  | 18 | 16 | 18 | 16 | 17 | 15 |
| X |  | 19 | 17 | 19 | 17 | 18 | 16 |
| XI |  | 20 | 18 | 20 | 18 | 19 - | 17 - |
| XII |  | 21 | 19 | 21 - | 19 | 20 | 18 |
| XIII |  | 22 - | 20 | 22 | 20 • | 21 | 19 |
| XIV |  | 23 | 21 - | VE 23 | 21 | 22 | 20 |
| XV | WS4/12• | 24 | 22 | 24 | 22 | 23 | 21 |
| XVI | 25 | 25 | 23 | 25 | 23 | 24 | 22 |
| XVII | 26 | 26 | 24 | 26 | 24 | 25 | 23 |
| XVIII | 27 | 27 | 25 | 27 | 25 | 26 | 24 |
| XIX | 28 | 28 | 26 | 28 | 26 | 27 | SS 25 |
| XX | 29 | 29 | 27 | 29 | 27 | 28 | 26 |
| XXI | 30 | 30 | 28 | 30 | 28 | 29 | 27 |
| XXII | 31 | 31 | 29 | 31 | 29 | 30 | 28 |
| XXIII | 1/1/169 | 1/2 | 1/3 | 1/4 | 30 | 31 | 29 |
| XXIV | 2 | 2 | 2 | 2 | 1/5 | 1/6 | 30 |
| XXV | 3 | 3 | 3 | 3 | 2 | 2 | 1/7 |
| XXVI | 4 | 4 | 4 | 40 | 3 | 30 | 20 |
| XXVII | 5 | 50 | 5 | 5 | 40 | 4 | 3 |
| XXVIII | 6 | 6 | 60 | 6 | 5 | 5 | 4 |
| XXIX | $7 \quad 0$ | 7 | 7 | 7 | 6 | 6 | 5 |
| XXX | 8 |  | 8 |  | 7 |  |  |
| XXXI | 9 |  | 9 |  | 8 |  |  |

C169 Consuls: Q. Marcius Philippus, Cn. Servilius Caepio

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 169 | 169 | 169 | 169 | 169 | 169 | 169/8 |
| 1 | 6/7 | 6/8 | 4/9 | 3/10 | 1/11 | 24/11 | 21/12 |
| II | 7 | 7 | 5 | 4 | 2 | 25 | 22 |
| III | 8 | 8 | 6 | 5 | 3 | 26 | ws 23 |
| IV | 9 | 9 | 7 | 6 | 4 | 27 - | 24 |
| V | 10 | 10 | 8 | 7 | 5 | 28 | 25 |
| VI | 11 | 11 | 9 | 8 | 6 | 29 | 26 |
| VII | 12 | 12 | 10 | $y$ | 7 | 30 | 27 |
| VIII | 13 | 13 | 11 | 10 | 8 | 1/12 | 28 |
| IX | 14 | 14 | 12 | 11 | 9 | 2 | 29 |
| X | 15 | 15 - | 13 - | 12 | 10 | 3 | 30 |
| XI | 16 | 16 | 14 | 13 - | 11 | 4 | $31^{\circ}$ |
| XII | 17 - | 17 | 15 | 14 | 12 | 5 | 1/1/168 |
| XIII | 18 | 18 | 16 | 15 | 13 | 6 | 2 |
| XIV | 19 | 19 | 17 | 16 | 14 | 7 | 3 |
| XV | 20 | 20 | 18 | 17 | 15 | 8 |  |
| XVI | 21 | 21 | 19 | 18 | 16 | 9 |  |
| XVII | 22 | 22 | 20 | 19 | 17 | 10 |  |
| XVIII | 23 | 23 | 21 | 20 | 18 | 11 - |  |
| XIX | 24 | 24 | 22 | 21 | 19 | 12 |  |
| XX | 25 | 25 | 23 | 22 | 20 | 13 |  |
| XXI | 26 | 26 | 24 | 23 | 21 | 14 |  |
| XXII | 27 | 27 | 25 | 24 | 22 | 15 |  |
| XXIII | 28 | 28 | AE 26 | 25 | 23 | 16 |  |
| XXIV | 29 | 29 | 27 | 26 |  | 17 |  |
| XXV | 30 | 30 o | 28 | 27 |  | 18 |  |
| XXVI | 31 | 31 | 290 | 28 |  | 19 |  |
| XXVII | 1/8 0 | 1/9 | 30 | 290 |  | 20 |  |
| XXVIII | 2 | 2 | 1/10 | 30 |  |  |  |
| XXIX | 3 | 3 | 2 | 31 |  |  |  |
| XXX | 4 |  |  |  |  |  |  |
| XXXI | 5 |  |  |  |  |  |  |

C168 Consuls: L. Aemilius Paullus, C. Licinius Crassus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 168 | 168 | 168 | 168 | 168 | 168 | 168 |
| I |  | 21/1 | 19/2 | 22/3 | 20/4 | 21/5 | 19/6 |
| II |  | 22 | 20 | 23 | 21 | 22 | 20 |
| III |  | 23 | 21 | VE 24 | 22 | 230 | TLE 21 |
| IV |  | 24 | 22 | 250 | 23 - | 24 | 22 |
| V |  | 250 | 230 | 26 | 24 | 25 | 23 |
| VI |  | 26 | 24 | 27 | 25 | 26 | 24 |
| VII |  | 27 | 25 | 28 | 26 | 27 | 25 |
| VIII |  | 28 | 26 | 29 | 27 | 28 | SS 26 |
| IX |  | 29 | 27 | 30 | 28 | 29 | 27 |
| X |  | 30 | 28 | 31 | 29 | 30 | 28 |
| XI |  | 31 | 1/3 | 1/4 | 30 | 31 | 29 |
| XII |  | 1/2 | 2 | 2 | 1/5 | 1/6 | 30 |
| XIII |  | 2 | 3 | 3 | 2 | 2 | 1/7 |
| XIV |  | 3 | 4 | 4 | 3 | 3 | 2 |
| XV | 4/1 | 4 | 5 | 5 | 4 | 4 | 3 |
| XVI | 5 | 5 | 6 | 6 | 5 | 5 | 4 |
| XVII | 6 | 6 | 7 | 7 | 6 | 6 | 5 |
| XVIII | 7 | 7 | 8 | 8 | 7 | 7 - | 6 |
| XIX | 8 | 8 | 9 | $9 \quad$ | 8 | 8 | 7 |
| XX | 9 | 9 - | 10 | 10 | 9 - | 9 | 8 |
| XXI | 10 - | 10 | 11 - | 11 | 10 | 10 | 9 |
| XXII | 11 | 11 | 12 | 12 | 11. | 11 | 10 |
| XXIII | 12 | 12 | 13 | 13 | 12 | 12 | 11 |
| XXIV | 13 | 13 | 14 | 14 | 13 | 13 | 12 |
| XXV | 14 | 14 | 15 | 15 | 14 | 14 | 13 |
| XXVI | 15 | 15 | 16 | 16 | 15 | 15 | 14 |
| XXVII | 16 | 16 | 17 | 17 | 16 | 16 | 15 |
| XXVIII | 17 | 17 | 18 | 18 | 17 | 17 | 16 |
| XXIX | 18 | 18 | 19 | 19 | 18 | 18 | 17 |
| XXX | 19 |  | 20 |  | 19 |  |  |
| XXXI | 20 |  | 21 |  | 20 |  |  |

C168 Consuls: L. Aemilius Paullus, C. Licinius Crassus

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 168 | 168 | 168 | 168 | 168 | 168/7 | 167 |
| I | 18/7 | 18/8 | 16/9 | 15/10 | 13/11 | 7/12 | 3/1 |
| II | 19 | 19 | 17 | 16 | 14 | 8 | 4 |
| III | 20 | 200 | 180 | 17 | 15 | 9 | 5 |
| IV | 21 - | 21 | 19 | 18 ○ | 16 | 10 | 6 |
| V | 22 | 22 | 20 | 19 | 17 ○ | 11 | 7 |
| VI | 23 | 23 | 21 | 20 | 18 | 12 | 8 |
| VII | 24 | 24 | 22 | 21 | 19 | 13 | 9 |
| VIII | 25 | 25 | 23 | 22 | 20 | 14 | 10 |
| 1X | 26 | 26 | 24 | 23 | 21 | 15 | 11 |
| X | 27 | 27 | 25 | 24 | 22 | $16 \bigcirc$ | 12 |
| XI | 28 | 28 | AE 26 | 25 | 23 | 17 | 13 |
| XII | 29 | 29 | 27 | 26 | 24 | 18 | 14 |
| XIII | 30 | 30 | 28 | 27 | 25 | 19 | 15 |
| XIV | 31 | 31 | 29 | 28 | 26 | 20 | 16 |
| XV | 1/8 | 1/9 | 30 | 29 | 27 | 21 |  |
| XVI | 2 | 2 | 1/10 | 30 | 28 | 22 |  |
| XVII | 3 | 3 - | 2 - | 31 | 29 | 23 |  |
| XVIII | 4 | 4 | 3 | 1/11* | 30 | ws 24 |  |
| XIX | 5 - | 5 | 4 | 2 | 1/12 | 25 |  |
| XX | 6 | 6 | 5 | 3 | 2 | 26 |  |
| XXI | 7 | 7 | 6 | 4 | 3 | 27 |  |
| XXII | 8 | 8 | 7 | 5 | 4 | 28 |  |
| XXIII | 9 | 9 | 8 | 6 | 5 | 29 |  |
| XXIV | 10 | 10 | 9 | 7 | 6 | 30 - |  |
| XXV | 11 | 11 | 10 | 8 |  | 31 |  |
| XXVI | 12 | 12 | 11 | 9 |  | 1/1/167 |  |
| XXVII | 13 | 13 | 12 | 10 |  | 2 |  |
| XXVIII | 14 | 14 | 13 | 11 |  |  |  |
| XXIX | 15 | 15 | 14 | 12 |  |  |  |
| XXX | 16 | $\cdots$ |  |  | $\cdots$ |  |  |
| XXXI | 17 |  |  |  |  |  |  |

C167 Consuls: Q. Aelius Paetus, M. Iunius Pennus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 167 | 167 | 167 | 167 | 167 | 167 | 167 |
| 1 |  | 3/2 | 4/3 | 4/4 | 3/5 | 3/6 | $2 / 7$ |
| II |  | 4 | 5 | 5 | 4 | 4 | 3 |
| III |  | 5 | 6 | 6 | 5 | 5 | 4 |
| IV |  | 6 | 7 | 7 | 6 | 6 | 5 |
| V |  | 7 | 8 | 8 | 7 | 7 | 6 |
| VI |  | 8 | 9 | 9 | 8 | 8 | 7 |
| VII |  | 9 | 10 | 10 | 9 | 9 | 8 |
| VIII |  | 10 | 11 | 11 | 10 | 10 | 9 |
| IX |  | 11 | 12 | 12 | 11 | 110 | $10 \quad 0$ |
| X |  | 12 | 13 | $13 \quad 0$ | 12 ○ | 12 | 11 |
| XI |  | 130 | $14 \bigcirc$ | 14 | 13 | 13 | 12 |
| XII |  | 14 | 15 | 15 | 14 | 14 | 13 |
| XIII |  | 15 | 16 | 16 | 15 | 15 | 14 |
| XIV |  | 16 | 17 | 17 | 16 | 16 | 15 |
| XV | 17/1 | 17 | 18 | 18 | 17 | 17 | 16 |
| XVI | 18 | 18 | 19 | 19 | 18 | 18 | 17 |
| XVII | 19 | 19 | 20 | 20 | 19 | 19 | 18 |
| XVIII | 20 | 20 | 21 | 21 | 20 | 20 | 19 |
| XIX | 21 | 21 | 22 | 22 | 21 | 21 | 20 |
| XX | 22 | 22 | 23 | 23 | 22 | 22 | 21 |
| XXI | 23 | 23 | VE 24 | 24 | 23 | 23 | 22 |
| XXII | 24 | 24 | 25 | 25 | 24 | 24 | 23 |
| XXIII | 25 | 25 | 26 | 26 | 25 | 25 | 24 |
| XXIV | 26 | 26 | 27 | 27 | 26 | SS $26 \quad \bullet$ | 25 - |
| XXV | 27 | 27 | 28 | 28 - | 27 | 27 | 26 |
| XXVI | 28 | 28 - | 29 | 29 | 28 - | 28 | 27 |
| XXVII | 29 - | 1/3 | 30 | 30 | 29 | 29 | 28 |
| XXVIII | 30 | 2 | 31 | 1/5 | 30 | 30 | 29 |
| XXIX | 31 | 3 | 1/4 | 2 | 31 | 1/7 | 30 |
| XXX | 1/2 |  | 2 |  | 1/6 |  |  |
| XXXI | 2 |  | 3 |  | 2 |  | $\bigcirc$ |

C167 Consuls: Q. Aelius Paetus, M. Iunius Pennus
(Intercai. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 167 | 167 | 167 | 167 | 167 | $167 / 6$ | 166 |
| I | $31 / 7$ | $31 / 8$ | $29 / 9$ | $28 / 10$ | $26 / 11$ | $19 / 12$ | $15 / 1$ |
| II | $1 / 8$ | $1 / 9$ | 30 | 29 | 27 | 20 | 16 |
| III | 2 | 2 | $1 / 10$ | 30 | 28 | 21 | 17 |
| IV | 3 | 3 | 2 | 31 | 29 | 22 | 18 |
| V | 4 | 4 | 3 | $1 / 11$ | 30 | 23 | 19 |
| VI | 5 | 5 | 4 | 2 | $1 / 12$ | ws 24 | 20 |
| VII | 6 | 6 | 5 | 3 | 2 | 25 | 21 |
| VIII | 7 | 7 | 0 | 4 | 3 | 26 | 22 |
| IX | 8 | 8 | $7 \circ$ | 5 | 4 | 27 | 23 |
| X | 9 | 9 | 8 | 6 | 5 | 28 | 24 |
| XI | 10 | 10 | 9 | 7 | 6 | 0 | 29 |
| XII | 11 | 11 | 10 | 8 | 7 | 30 | 26 |
| XIII | 12 | 12 | 11 | 9 | 8 | 31 | 27 |
| XIV | 13 | 13 | 12 | 10 | 9 | $1 / 1 / 166$ | 28 |
| XV | 14 | 14 | 13 | 11 | 10 | 2 |  |
| XVI | 15 | 15 | 14 | 12 | 11 | 3 |  |
| XVII | 16 | 16 | 15 | 13 | 12 | 4 | 0 |
| XVIII | 17 | 17 | 16 | 14 | 13 | 5 |  |
| XIX | 18 | 18 | 17 | 15 | 14 | 6 |  |
| XX | 19 | 19 | 18 | 16 | 15 | 7 |  |
| XXI | 20 | 20 | 19 | 17 | 16 | 8 |  |
| XXII | 21 | 21 | 20 | 18 | 17 | 9 |  |
| XXIII | 22 | 22 | 21 | 19 | 18 | 10 |  |
| XXIV | 23 | 23 | 22 | 20 |  | 11 |  |
| XXV | 24 | 24 | 23 | 21 |  | 12 |  |
| XXVI | 25 | 25 | 24 | 22 |  | 13 |  |
| XXVII | 26 | AE 26 | 25 | 23 |  | 14 |  |
| XXVIII | 27 | 27 | 26 | 24 |  |  |  |
| XXIX | 28 | 28 | 27 | 25 |  |  |  |
| XXX | 29 | 30 |  |  |  |  |  |

C166 Consuls: M. Claudius Marcellus, C. Sulpicius Galus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 166 | 166 | 166 | 166 | 166 | 166 | 166 |
| 」 |  | 15/2 | 16/3 | 16/4 | 15/5 | 15/6 - | 14/7 |
| II |  | 16 | 17 | 17 - | 16 | 16 | 15 |
| III |  | 17 - | 18 | 18 | 17 • | 17 | 16 |
| IV |  | 18 | 19 - | 19 | 18 | 18 | 17 |
| V |  | 19 | 20 | 20 | 19 | 19 | 18 |
| VI |  | 20 | 21 | 21 | 20 | 20 | 19 |
| VII |  | 21 | 22 | 22 | 21 | 21 | 20 |
| VIII |  | 22 | 23 | 23 | 22 | 22 | 21 |
| IS |  | 23 | vE 24 | 24 | 23 | - 23 | 22 |
| X |  | 24 | 25 | 25 | 24 | 24 | 23 |
| XI |  | 25 | 26 | 26 | 25 | 25 | 24 |
| XII |  | 26 | 27 | 27 | 26 | SS 26 | 25 |
| XIII |  | 27 | 28 | 28 | 27 | 27 | 26 |
| XIV |  | 28 | 29 | 29 | 28 | 28 | 27 |
| XV | 29/1 | 1/3 | 30 | 30 | 29 | $29 \quad 0$ | 28 |
| XVI | 30 | 2 | 31 | 1/5 | 30 | 30 | 29 |
| XVII | 31 | 3 | 1/4 | 20 | 310 | 1/7 | 30 |
| XVIII | 1/2 | $4 \bigcirc$ | 20 | 3 | 1/6 | 2 | 31 |
| XIX | 2 | 5 | 3 | 4 | 2 | 3 | 1/8 |
| XX | 30 | 6 | 4 | 5 | 3 | 4 | 2 |
| XXI | 4 | 7 | 5 | 6 | 4 | 5 | 3 |
| XXII | 5 | 8 | 6 | 7 | 5 | 6 | 4 |
| XXIII | 6 | 9 | 7 | 8 | 6 | 7 | 5 |
| XXIV | 7 | 10 | 8 | 9 | 7 | 8 | 6 |
| XXV | 8 | 11 | 9 | 10 | 8 | 9 | 7 |
| XXVI | 9 | 12 | 10 | 11 | 9 | 10 | 8 |
| XXVII | 10 | 13 | 11 | 12 | 10 | 11 | 9 |
| XXVIII | 11 | 14 | 12 | 13 | 11 | 12 | 10 |
| XXIX | 12 | 15 | 13 | 14 | 12 | 13 | 11 |
| XXX | 13 |  | 14 |  | 13 |  |  |
| XXXI | 14 |  | 15 |  | 14 |  |  |

C166 Consuls: M. Claudius Marcellus, C. Sulpicius Galus

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 166 | 166 | 166 | 166 | 166 | 165 | 165 |
| I | 12/8 | 12/9 | 11/100 | 9/11 | 8/12 | 1/1/165 | 28/1 |
| II | 13 • | 13 | 12 | 10 - | 9 * | 2 | 29 |
| III | 14 | 14 | 13 | 11 | 10 | 3 | 30 |
| IV | 15 | 15 | 14 | 12 | 11 | 4 | 31 |
| V | 16 | 16 | 15 | 13 | 12 | 5 | 1/2 |
| VI | 17 | 17 | 16 | 14 | 13 | 6 | 2 |
| VII | 18 | 18 | 17 | 15 | 14 | 7 | 3 |
| VIII | 19 | 19 | 18 | 16 | 15 | 8 - | 4 |
| IX | 20 | 20 | 19 | 17 | 16 | 9 | 5 |
| X | 21 | 21 | 20 | 18 | 17 | 10 | 6 |
| XI | 22 | 22 | 21 | 19 | 18 | 11 | 7 |
| XII | 23 | 23 | 22 | 20 | 19 | 12 | 8 |
| XIII | 24 | 24 | 23 | 21 | 20 | 13 | 9 |
| XIV | 25 | 25 | 24 | 22 | 21 | 14 | 10 |
| XV | 26 | 26 ○ | 25 | 23 | 22 | 15 |  |
| XVI | 27 - | AE 27 | 26 - | 24 | 23 | 16 |  |
| XVII | 28 | 28 | 27 | 250 | ws 240 | 17 |  |
| XVIII | 29 | 29 | 28 | 26 | 25 | 18 |  |
| XIX | 30 | 30 | 29 | 27 | 26 | 19 |  |
| XX | 31 | 1/10 | 30 | 28 | 27 | 20 |  |
| XXI | 1/9 | 2 | 31 | 29 | 28 | 21 |  |
| XXII | 2 | 3 | 1/11 | 30 | 29 | 22 |  |
| XXIII | 3 | 4 | 2 | 1/12 | 30 | 23 o |  |
| XXIV | 4 | 5 | 3 | 2 | 31 | 24 |  |
| XXV | 5 | 6 | 4 | 3 |  | 25 |  |
| XXVI | 6 | 7 | 5 | 4 |  | 26 |  |
| XXVII | 7 | 8 | 6 | 5 |  | 27 |  |
| XXVIII | 8 | 9 | 7 | 6 | - |  |  |
| XXIX | 9 | 10 | 8 | 7 |  |  |  |
| XXX | 10 |  |  |  |  |  |  |
| XXXI | 11 |  |  |  | . |  |  |

C165 Consuls: T. Manlius Torquatus, Cn. Octavius

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 165 | 165 | 165 | 165 | 165 | 165 | 165 |
| I |  | $28 / 2$ | 28/3 | 28/4 | $27 / 5$ | 27/6 | 26/7 |
| II |  | 29 | 29 | 29 | 28 | 28 | 27 |
| III |  | 1/3 | 30 | 30 | 29 | 29 | 28 |
| IV |  | 2 | 31 | 1/5 | 30 | 30 | 29 |
| V |  | 3 | 1/4 | 2 | 31 | 1/7 | 30 |
| VI |  | 4 | 2 | 3 | 1/6 | 2 | 31 |
| VII |  | 5 | 3 | 4 | 2 | 3 - | 1/8 |
| VIII |  | 6 | 4 | 5 - | 3 - | 4 | 2 |
| IX |  | 7 • | 5 • | 6 | 4 | 5 | 3 |
| X |  | 8 | 6 | 7 | 5 | 6 | 4 |
| XI |  | 9 | 7 | 8 | 6 | 7 | 5 |
| XII |  | 10 | 8 | 9 | 7 | 8 | 6 |
| XIII |  | 11 | 9 | 10 | 8 | 9 | 7 |
| XIV |  | 12 | 10 | 11 | 9 | 10 | 8 |
| XV | 11/2 | 13 | 11 | 12 | 10 | 11 | 9 |
| XVI | 12 | 14 | 12 | 13 | 11 | 12 | 10 |
| XVII | 13 | 15 | 13 | 14 | 12 | 13 | 11 |
| XVIII | 14 | 16 | 14 | 15 | 13 | 14 | 12 |
| XIX | 15 | 17 | 15 | 16 | 14 | 15 | 13 |
| XX | 16 | 18 | 16 | 17 | 15 | 16 | 14 |
| XXI | 17 | 19 | 17 | 18 | 16 | 17 ○ | 15 |
| XXII | 18 | 20 | 18 | 19 | 17 | 18 | 16 |
| XXIII | 19 | 21 | 19 | 20 ○ | 18 ○ | 19 | 17 |
| XXIV | 20 | 220 | 20 - | 21 | 19 | 20 | 18 |
| XXV | 21 | 23 | 21 | 22 | 20 | 21 | 19 |
| XXVI | 220 | 24 | 22 | 23 | 21. | 22 | 20 |
| XXVII | ve 23 | 25 | 23 | 24 | 22 | 23 | 21 |
| XXVIII | 24 | 26 | 24 | 25 | 23 | 24 | 22 |
| XXIX | 25 | 27 | 25 | 26 | 24 | 25 | 23 |
| XXX | 26 |  | 26 |  | SS 25 |  |  |
| XXXI | 27 |  | 27 |  | 26 |  |  |

C165 Consuls: T. Manlius Torquatus, Cn. Octavius
(Intercal. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 165 | 165 | 165 | 165 | 165/4 | 164 | 164 |
| I | 24/8 | 24/9 | 23/10 | 21/11 | 20/12 | 12/1 | $8 / 2$ |
| II | 25 | 25 | 24 | 22 | 21 | 13 | 9 |
| III | 26 | AE 26 | 25 | 23 | 22 | 14 | 10 |
| IV | 27 | 27 | 26 | 24 | ws 23 | 15 | 11 |
| V | 28 | 28 | 27 | 25 | 24 | 16 | 12 |
| VI | 29 | 29 | 28 | 26 | 25 | 17 | 13 |
| VII | 30 | 30 - | 29 - | 27 | 26 | 18 | 14 |
| VIII | 31 • | 1/10 | 30 | 28 - | 27 - | 19 | 15 |
| IX | 1/9 | 2 | 31 | 29 | 28 | 20 | 16 |
| X | 2 | 3 | 1/11 | 30 | 29 | 21 | 17 |
| XI | 3 | 4 | 2 | 1/12 | 30 | 22 | 18 |
| XII | 4 | 5 | 3 | 2 | 31 | 23 | 19 |
| XIII | 5 | 6 | 4 | 3 | 1/1/164 | 24 | 21 |
| XIV | 6 | 7 | 5 | 4 | 2 | 25 | 21 |
| XV | 7 | 8 | 6 | 5 | 3 | 26 • |  |
| XVI | 8 | 9 | 7 | 6 | 4 | 27 |  |
| XVII | 9 | 10 | 8 | 7 | 5 | 28 |  |
| XVIII | 10 | 11 | 9 | 8 | 6 | 29 |  |
| XIX | 11 | 12 | 10 | 9 | 7 | 30 |  |
| XX | 12 | 13 | 11 | 10 | 8 | 31 |  |
| XXI | 13 | 14 - | 12 | 11 | 9 | 1/2 |  |
| XXII | 14 - | 15 | 130 | 120 | 10 | 2 |  |
| XXIII | 15 | 16 | 14 | 13 | 110 | 3 |  |
| XXIV | 16 | 17 | 15 | 14 |  | 4 |  |
| XXV | 17 | 18 | 16 | 15 |  | 5 |  |
| XXVI | 18 | 19 | 17 | 16 |  | 6 |  |
| XXVII | 19 | 20 | 18 | 17 |  | 7 |  |
| XXVIII | 20 | 21 | 19 | 18 |  |  |  |
| XXIX | 21 | 22 | 20 | 19 |  |  |  |
| XXX | 22 |  |  |  |  |  |  |
| XXXI | 23 |  |  |  |  |  |  |

C164 Consuls: A. Manlius Torquatus, Q. Cassius Longinus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 164 | 164 | 164 | 164 | 164 | 164 | 164 |
| I |  | 11/3 | 9/4 | $10 / 5$ | 8/6 0 | $9 / 7$ | 7/8 |
| II |  | 120 | $10 \bigcirc$ | 11 | 9 | 10 | 8 |
| III |  | 13 | 11 | 12 | 10 | 11 | 9 |
| IV |  | 14 | 12 | 13 | 11 | 12 | 10 |
| V |  | 15 | 13 | 14 | 12 | 13 | 11 |
| VI |  | 16 | 14 | 15 | 13 | 14 | 12 |
| VII |  | 17 | 15 | 16 | 14 | 15 | 13 |
| VIII |  | 18 | 16 | 17 | 15 | 16 | 14 |
| IX |  | 19 | 17 | 18 | 16 | 17 | 15 |
| X |  | 20 | 18 | 19 | 17 | 18 | 16 |
| XI |  | 21 | 19 | 20 | 18 | 19 | 17 |
| XII |  | 22 | 20 | 21 | 19 | 20 | 18 |
| XIII |  | 23 | 21 | 22 | 20 | 21 | 19 |
| XIV |  | vE 24 | 22 | 23 | 21 | 22 - | 20 - |
| XV | $22 / 2$ | 25 | 23 | 24 | 22 - | 23 | 21 |
| XVI | 23 | 26 • | 24 - | 25 | 23 | 24 | 22 |
| XVII | 24 - | 27 | 25 | 26 | 24 | 25 | 23 |
| XVIII | 25 | 28 | 26 | 27 | 25 | 36 | 24 |
| XIX | 26 | 29 | 27 | 28 | SS 26 | 27 | 25 |
| XX | 27 | 30 | 28 | 29 | 27 | 28 | 26 |
| XXI | 28 | 31 | 29 | 30 | 28 | 29 | 27 |
| XXII | 1/3 | 1/4 | 30 | 31 | 29 | 30 | 28 |
| XXIII | 2 | 2 | 1/5 | 1/6 | 30 | 31 | 29 |
| XXIV | 3 | 3 | 2 | 2 | 1/7 | 1/8 | 30 |
| XXV | 4 | 4 | 3 | 3 | 2 | 2 | 31 |
| XXVI | 5 | 5 | 4 | 4 | 3 | 3 | 1/9 |
| XXVII | 6 | 6 | 5 | 5 | 4 | 4 | 2 |
| XXVIII | 7 | 7 | 6 | 6 | 5 | 50 | 3 |
| XXIX | 8 | 8 | 7 | 7 | 6 | 6 | $4 \quad 0$ |
| XXX | 9 |  | 8 |  | $7 \quad 0$ |  |  |
| XXXI | 10 |  | 90 |  | 8 |  |  |

C164 Consuls: A. Manlius Torquatus, Q. Cassius Longinus
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 164 | 164 | 164 | 164 | 163 | 163 | 163 |
| I | 5/9 | 6/10 | 4/11 | 3/12 | 1/1/163 | 25/1 | 21/2 |
| II | 6 | 7 | 5 | 4 | 2 | 26 | 22 |
| III | 7 | 8 | 6 | 5 | 3 | 27 | 23 |
| IV | 8 | 9 | 7 | 6 | 4 | 28 | 24 |
| V | 9 | 10 | 8 | 7 | 5 | 29 | 25 |
| VI | 10 | 11 | 9 | 8 | 6 | 30 ○ | 26 |
| VII | 11 | 12 | 10 | 9 | 7 | 31 | 27 |
| VIII | 12 | 13 | 11 | 10 | 8 | 1/2 | 28. |
| IX | 13 | 14 | 12 | 11 | 9 | 2 | $1 / 30$ |
| X | 14 | 15 | 13 | 12 | 10. | 3 | 2 |
| XI | 15 | 16 | 14 | 13 | 11 | 4 | 3 |
| XII | 16 | 17 | 15 | 14 | 12 | 5 | 4 |
| XIII | 17 | 18 | 16 | 15 | 13 | 6 | 5 |
| XIV | 18 | 19 - | 17 - | 16 | 14 | 7 | 6 |
| XV | 19 - | 20 | 18 | 17 | 15 - | 8 |  |
| XVI | 20 | 21 | 19 | 18 | 16 | 9 |  |
| XVII | 21 | 22 | 20 | 19 | 17 | 10 |  |
| XVIII | 22 | 23 | 21 | 20 | 18 | 11 |  |
| XIX | 23 | 24 | 22 | 21 | 19 | 12 |  |
| XX | 24 | 25 | 23 | 22 | 20 | 13 |  |
| XXI | 25 | 26 | 24 | 23 | 21 | 14 - |  |
| XXII | AE 26 | 27 | 25 | ws 24 | 22 | 15 |  |
| XXIII | 27 | 28 | 26 | 25 | 23 | 16 |  |
| XXIV | 28 | 29 | 27 | 26 | 24 | 17 |  |
| XXV | 29 | 30 | 28 | 27 |  | 18 |  |
| XXVI | 30 | 31 | 29 | 28 |  | 19 |  |
| XXVII | 1/10 | 1/11 | 30 | 29 | \% | 20 |  |
| XXVIII | 2 | 20 | 1/120 | 30 |  |  |  |
| XXIX | 30 | 3 | 2 | 31 | - |  |  |
| XXX | 4 |  |  |  |  |  |  |
| XXXI | 5 |  |  |  |  |  |  |

C163 Consuls: Ti. Sempronius Gracchus, M'. Iuventius Thalna

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 163 | 163 | 163 | 163 | 163 | 163 | 163 |
| I |  | VE24/3 | 22/4 | $23 / 5$ | 21/6 | 22/7 | 20/8 |
| II |  | 25 | 23 | 24 | 22 | 23 | 21 |
| III |  | 26 | 24 | 25 | 23 | 24 | 22 |
| IV |  | 27 | 25 | 26 | 24 | 25 | 23 |
| V |  | 28 | 26 | 27 | 25 | 26 - | 24 |
| VI |  | 29 | 27 | 28 ○ | SS 26 | 27 | 25 |
| VII |  | $30 \%$ | 28 | 29 | 27 ○ | 28 | 26 |
| VIII |  | 31 | $29 \bigcirc$ | 30 | 28 | 29 | 27 |
| IX |  | 1/4 | 30 | 31 | 29 | 30 | 28 |
| X |  | 2 | 1/5 | 1/6 | 30 | 31 | 29 |
| XI |  | 3 | 2 | 2 | 1/7 | 1/8 | 30 |
| XII |  | 4 | 3 | 3 | 2 | 2 | 31 |
| XIII |  | 5 | 4 | 4 | 3 | 3 | 1/9 |
| XIV |  | 6 | 5 | 5 | 4 | 4 | 2 |
| XV | 7/3 | 7 | 6 | 6 | 5 | 5 | 3 |
| XVI | 8 | 8 | 7 | 7 | 6 | 6 | 4 |
| XVII | 9 | 9 | 8 | 8 | 7 | 7 | 5 |
| XVIII | 10 | 10 | 9 | 9 | 8 | 8 | 6 |
| XIX | 11 | 11 | 10 | 10 | 9 | 9 - | 7 |
| XX | 12 | 12 | 11 | 11 - | 10 | 10 | 8 |
| XXI | 13 | 13 - | 12 | 12 | 11 • | 11 | 9 |
| XXII | 14 | 14 | 13 - | 13 | 12 | 12 | 10 |
| XXIII | 15 - | 15 | 14 | 14 | 13 | 13 | 11 |
| XXIV | 16 | 16 | 15 | 15 | 14 | 14 | 12 |
| XXV | 17 | 17 | 16 | 16 | 15 | 15 | 13 |
| XXVI | 18 | 18 | 17 | 17 | 16 | 16 | 14 |
| XXVII | 19 | 19 | 18 | 18 | 17 | 17 | 15 |
| XXVIII | 20 | 20 | 19 | 19 | 18 | 18 | 16 |
| XXIX | 21 | 21 | 20 | 20 | 19 | 19 | 17 |
| XXX | 22 |  | 21 |  | 20 |  |  |
| XXXI | 23 |  | 22 |  | 21 |  |  |

C163 Consuls: Ti. Sempronius Gracchus, M'. Iuventius Thaina
(Inercal. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 163 | 163 | 163 | 163/2 | 162 | 162 | 162 |
| I | 18/9 | 19/10 | 17/11 | 16/12 | 14/1 | 6/2 | 5/3 |
| II | 19 | 20 | 18 | 17 | 15 | 7 | 6 |
| III | 20 | 21 | 19 | 18 | 16 | 8 | 7 |
| IV | 21 | 220 | 20 | 19 | 17 | 9 | 8 |
| V | 22 | 23 | 210 | 20 ○ | 18 | 10 | 9 |
| VI | 230 | 24 | 22 | 21 | 19 ○ | 11 | 10 |
| VII | 24 | 25 | 23 | 22 | 20 | 12 | 11 |
| VIII | 25 | 26 | 24 | 23 | 21 | 13 | 12 |
| IX | AE 26 | 27 | 25 | ws 24 | 22 | 14 | 13 |
| X | 27 | 28 | 26 | 25 | 23 | 15 | 14 |
| XI | 28 | 29 | 27 | 26 | 24 | 16 | 15 |
| XII | 29 | 30 | 28 | 27 | 25 | 17 | 16 |
| XIII | 30 | 31 | 29 | 28 | 26 | 18 - | 17 |
| XIV | 1/10 | 1/11 | 30 | 29 | 27 | 19 | 18 |
| XY | 2 | 2 | 1/12 | 30 | 28 | 20 |  |
| XVI | 3 | 3 | 2 | 31 | 29 | 21 |  |
| XVII | 4 | 4 | 3 | 1/1/162 | 30 | 22 |  |
| XVIII | 5 | 5 | 4 | 2 | 31 | 23 |  |
| XIX | 6 | 6 | 5 | 3 | 1/2 | 24 |  |
| XX | 7 | 7 • | 6 • | 4 | 2 | 25 |  |
| XXI | 8 - | 8 | 7 | 5 - | 3 - | 26 |  |
| XXII | 9 | 9 | 8 | 6 | 4 | 27 |  |
| XXIII | 10 | 10 | 9 | 7 | 5 | 28 |  |
| XXIV | 11 | 11 | 10 | 8 |  | 1/3 |  |
| XXV | 12 | 12 | 11 | 9 |  | 2 |  |
| XXVI | 13 | 13 | 12 | 10 |  | 3 |  |
| XXVII | 14 | 14 | 13 | 11 |  | 4 |  |
| XXVIII | 15 | 15 | 14 | 12 |  |  |  |
| XXIX | 16 | 16 | 15 | 13 |  |  |  |
| XXX | 17 |  |  |  |  |  |  |
| XXXI | 18 |  |  |  |  |  |  |

C162 Consuls: P. Cornelius Scipio Nasica, C. Marcius Figulus


C162 Consuls: P. Cornelius Scipio Nasica, C. Marcius Figulus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 162 | 162 | 162 | 162 | 162/1 | 161 | 161 |
| I | 1/9 | 30/9 | 31/10 | $29 / 11$ | 28/12 | 26/1 | 23/2 |
| II | 2 | 1/10 | 1/11 | 30 | 29 | 27 | 24 |
| III | 3 | 2 | 2 | 1/12 | 30 | 28 | 25 |
| IV | 4 | 3 | 3 | 2 | 31 | 29 | 26 |
| V | 5 | 4 | 4 | 3 | 1/1/161 | 30 | 27 |
| VI | 6 | 5 | 5 | 4 | 2 | 31 | 28 |
| VII | 7 | 6 | 6 | 5 | 3 | 1/2 | 29 |
| VIII | 8 | 7 | 7 | 6 | 4 | 2 | 1/3 |
| IX | 9 | 8 | 8 | 7 | 5 | 3 | 2 |
| X | 10 | 9 | 9 | 8 | 6 | 4 | 3 |
| XI | 11 | 10 | 10 - | 9 | 7 | 5 | 4. |
| XII | $12 \bigcirc$ | 11 | 11 | 10 ○ | 8 0 | 6 | 5 |
| XIII | 13 | 12 ○ | 12 | 11 | 9 | 7 | 6 |
| XIV | 14 | 13 | 13 | 12 | 10 | 8 | 7 |
| XV | 15 | 14 | 14 | 13 | 11 | 9 |  |
| XVI | 16 | 15 | 15 | 14 | 12 | 10 |  |
| XVII | 17 | 16 | 16 | 15 | 13 | 11 |  |
| XVIII | 18 | 17 | 17 | 16 | 14 | 12 |  |
| XIX | 19 | 18 | 18 | 17 | 15 | 13 |  |
| XX | 20 | 19 | 19 | 18 | 16 | 14 |  |
| XX1 | 21 | 20 | 20 | 19 | 17 | 15 |  |
| XXII | 22 | 21 | 21 | 20 | 18 | 16 |  |
| XXIII | 23 | 22 | 22 | 21 | 19 | 17 |  |
| XXIV | 24 | 23 | 23 | 22 | 20 | 18 |  |
| XXV | 25 | 24 | 24 | 23 | 21 | 19 |  |
| XXVI | 26 | 25 | 25 - | ws 24 | 22 | 20 |  |
| XKVII | AE 27 • | 26 | 26 | 25 - | 23 | 21 |  |
| XXVIII | 28 | 27 - | 27 | 26 | 24 - | 22 |  |
| XXIX | 29 | 28 | 28 | 27 | 25 |  |  |
| XXX |  | 29 |  |  |  |  |  |
| XXXI |  | 30 |  |  |  |  |  |

C161 Consuls: M. Valerius Messalla, C. Fannius Strabo

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 161 | 161 | 161 | 161 | 161 | 161 | 161 |
| I |  | 25/3 | 23/4 | 24/5 | $22 / 6$ | 23/7 | 21/8 |
| II |  | 26 | 24 | 25 | 23 | 24 | 22 |
| III |  | 27 | 25 | 26 | 24 | 25 | 23 |
| IV |  | 28 | 26 | 27 | SS 25 | 26 | 24 |
| V |  | 29 | 27 | 23 | 26 | 27 | 25 |
| VI |  | 30 | 28 | 29 | 27 | 28 | 26 |
| VII |  | 31 | 29 | 30 | 28 | 29 | 27 |
| VIII |  | 1/4 | 30 | 31 | 29 | 30 | 28 |
| IX |  | 2 | 1/5 | 1/6 | 30 | 31 | 29 |
| X |  | 3 | 2 | 2 | 1/7 | 1/8 | 30 |
| XI |  | 4 | 3 | 3 | 2 | 2 | 31 |
| XII |  | 5 | 4 | 4 | 3 | 3 | 1/9 |
| XIII |  | 60 | 5 | 5 | 4 | 4 | 2 |
| XIV |  | 7 | 60 | 6 | 5 | 5 | 3 |
| XV | $8 / 3$ | 8 | 7 | 7 | 6 | 6 | 4 |
| XVI | 9 | 9 | 8 | 8 | 7 | 7 | 5 |
| XVII | 10 | 10 | 9 | 9 | 8 | 8 | 6 |
| XVIII | 11 | 11 | 10 | 10 | 9 | 9 | 7 |
| XIX | 12 | 12 | 11 | 11 | 10 | 10 | 8 |
| XX | 13 | 13 | 12 | 12 | 11 | 11 | 9 |
| XXI | 14 | 14 | 13 | 13 | 12 | 12 | 10 |
| XXII | 15 | 15 | 14 | 14 | 13 | 13 | 11 |
| XXIII | 16 | 16 | 15 | 15 | 14 | 14 | 12 |
| XXIV | 17 | 17 | 16 | 16 | 15 | 15 | 13 |
| XXV | 18 | 18 | 17 | 17 | 16 | 16 | 14 |
| XXVI | 19 | 19 | 18 | 18 | 17 | 17 | 15 |
| XXVII | 20 | 20 | 19 | 19 | 18 | 18 | 16 |
| XXVIII | 21 | 21 - | 20 - | 20 | 19 | 19 | 17 |
| XXIX | 22 | 22 | 21 | 21 | 20 | 20 | 18 |
| XXX | VE 23 |  | 22 |  | 21 |  |  |
| XXXI | 24 |  | 23 |  | 22 |  |  |

C161 Consuls: M. Valerius Messalla, C. Fannius Strabo
(Intercal. 23)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 161 | 161 | 161 | 161/0 | 160 | 160 | 160 |
| I | 19/9 | 20/10 | 18/11 | 17/12 | 15/1 | 8/2 | $7 / 3$ |
| II | 20 | 21 | 19 | 18 | 16 | 9 | 8 |
| III | 21 | 22 | 20 | 19 | 17 | 10 | 9 |
| IV | 22 | 23 | 21 | 20 | 18 | 11 - | 10 |
| V | 23 | 24 | 22 | 21 | 19 | 12 | 11 |
| VI | 24 | 25 | 23 | 22 | 20 | 13 | 12 |
| VII | 25 | 26 | 24 | ws 23 | 21 | 14 | 13 |
| VIII | AE 26 | 27 | 25 | 24 | 22 | 15 | 14 |
| IX | 27 | 28 | 26 | 25 | 23 | 16 | 15 |
| X | 28 | 29 | 27 | 26 | 24 | 17 | 16 |
| XI | 29 | 30 - | 28 ○ | 27 | 25 | 18 | 17 |
| XII | 30 | 31 | 29 | 28 - | 26 ○ | 19 | 18 |
| XIII | 1/10 0 | 1/11 | 30 | 29 | 27 | 20 | 19 |
| XIV | 2 | 2 | 1/12 | 30 | 28 | 21 | 20 |
| XV | 3 | 3 | 2 | 31 | 29 | 22 |  |
| XVI | 4 | 4 | 3 | 1/1/160 | 30 | 23 |  |
| XVII | 5 | 5 | 4 | 2 | 31 | 24 |  |
| XVIII | 6 | 6 | 5 | 3 | 1/2 | 250 |  |
| XIX | 7 | 7 | 6 | 4 | 2 | 26 |  |
| XX | 8 | 8 | 7 | 5 | 3 | 27 |  |
| XXI | 9 | 9 | 8 | 6 | 4 | 28 |  |
| XXII | 10 | 10 | 9 | 7 | 5 | 1/3 |  |
| XXIII | 11 | 11 | 10 | 8 | 6 | 2 |  |
| XXIV | 12 | 12 | 11 | 9 | 7 | 3 |  |
| XXV | 13 | 13 • | 12 | 10 |  | 4 |  |
| XXVI | 14 | 14 | 13 - | 11 |  | 5 |  |
| XXVII | 15 • | 15 | 14 | 12 - |  | 6 |  |
| XXVIII | 16 | 16 | 15 | 13 | $\because$ |  |  |
| XXIX | 17 | 17 | 16 | 14 |  |  |  |
| XXX | 18 |  |  |  |  |  |  |
| XXXI | 19 |  |  |  |  |  |  |

C160 Consuls: L. Ancius Gallus, M. Cornelius Cethegus

|  | MAR | APR | MAI | JUN | QUl | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 160 | 160 | 160 | 160 | 160 | 160 |
| I |  | $7 / 4$ | 6/5 | 6/6 | $5 / 7$ | 5/8 |
| II |  | 8 | 7 | 7 | 6 | 6 |
| III |  | 9 | 8 |  | 7 | 7 |
| IV |  | 10 | 9 | 9 | 8 | 8 |
| V |  | 11 - | 10 - | 10 | 9 | 9 |
| VI |  | 12 | 11 | 11 | 10 | 10 |
| VII |  | 13 | 12 | 12 | 11 | 11 |
| VIII |  | 14 | 13 | 13 | 12 | 12 |
| IX |  | 15 | 14 | 14 | 13 | 13 |
| X |  | 16 | 15 | 15 | 14 | 14 |
| XI |  | 17 | 16 | 16 | 15 | 15 |
| XII |  | 18 | 17 | 17 | 16 | 16 |
| XIII |  | 19 | 18 | 18 | 17 | 17 |
| XIV |  | 20 | 19 | 19 | 18 | 18 |
| XV | 21/3 | 21 | 20 | 20 | 19 | 19 |
| XVI | 22 | 22 | 21 | 21 | 20 | 20 |
| XVII | 23 | 23 | 22 | 22 | 21 | 21 |
| XVIII | VE 24 | 24 | 23 | 23 | 22 | 22 |
| XIX | 25 | 250 | $24 \bigcirc$ | 24 | 23 | 23 |
| XX | 26 - | 26 | 25 | 25 | 24 | 24 |
| XXI | 27 | 27 | 26 | SS 26 | 25 | 25 |
| XXII | 28 | 28 | 27 | 27 | 26 | 26 |
| XXIII | 29 | 29 | 28 | 28 | 27 | 27 |
| XXIV | 30 | 30 | 29 | 29 | 28 | 28 |
| XXV | 31 | 1/5 | 30 | 30 | 29 | 29 |
| XXVI | 1/4 | 2 | 31 | 1/7 | 30 | 30 |
| XXVII | 2 | 3 | 1/6 | 2 | 31 | 31 |
| XXVIII | 3 | 4 | 2 | 3 | 1/8 | 1/9 |
| XXIX | 4 | 5 | 3 | 4 | 2 | 2 |
| XXX | 5 |  | 4 |  | 3 |  |
| XXXI | 6 |  | 5 |  | 4 |  |

C160 Consuls: L. Ancius Gallus, M. Comelius Cethegus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 160 | 160 | $1 \leqslant 4$ | 160 | 160/59 | 159 | 159 |
| I | 3/9 | 2/10 | 2/11 | 1/12 | 30/12 | 28/1 | 25/2 |
| II | 4 - | 3 | 3 • | 2 - | 31 | 29 | 26 |
| Iis | 5 | 4 • | 4 | 3 | 1/1/1590 | 30 | 27 |
| IV | 6 | 5 | 5 | 4 | 2 | 31 - | 28 |
| V | 7 | 6 | 6 | 5 | 3 | 1/2 | 1/3 |
| VI | 8 | 7 | 7 | 6 | 4 | 2 | 2 |
| VII | 9 | 8 | 8 | 7 | 5 | 3 | 3 |
| VIII | 10 | 9 | 9 | 8 | 6 | 4 | 4 |
| IX | 11 | 10 | 10 | 9 | 7 | 5 | 5 |
| X | 12 | 11 | 11 | 10 | 8 | 6 | 6 |
| XI | 13 | 12 | 12 | 11 | 9 | 7 | 7 |
| XII | 14 | 13 | 13 | 12 | 10 | 8 | 8 |
| XIII | 15 | 14 | 14 | 13 | 11 | 9 | 9 |
| XIV | 16 | 15 | 15 | 14 | 12 | 10 | 10 |
| XV | 17 | 16 | 16 | 15 | 13 | 11 |  |
| XVI | 18 | 17 | 17 | 16 | 14 | 12 |  |
| XVII | 19 | 18 | 180 | 17 | 15 | 13 |  |
| XVIII | 20 - | 190 | 19 | 18 - | $16 \quad 0$ | 14 - |  |
| XIX | 21 | 20 | 20 | 19 | 17 | 15 |  |
| XX | 22 | 21 | 21 | 20 | 18 | 16 |  |
| XXI | 23 | 22 | 22 | 21 | 19 | 17 |  |
| XXII | 24 | 23 | 23 | 22 | 20 | 18 |  |
| XXIII | 25 | 24 | 24 | 23 | 21 | 19 |  |
| XXIV | AE 26 | 25 | 25 | ws 24 | 22 | 20 |  |
| XXV | 27 | 26 | 26 | 25 | 23 | 21 |  |
| XXVI | 28 | 27 | 27 | 26 | 24 | 22 |  |
| XXVII | 29 | 28 | 28 | 27 | 25 | 23 |  |
| XXVIII | 30 | 29 | 29 | 28 | 26 | 24 |  |
| XXIX | 1/10 | 30 | 30 | 29 | 27 |  |  |
| XXX |  | 31 |  |  |  |  |  |
| XXXI |  | 1/11 |  |  |  |  |  |

C159 Consuls: Cn. Cornelius Dolabella, M. Fulvius Nobilior

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 159 | 159 | 159 | 159 | 159 | 159 | 159 |
| I |  | 28/3 | 26/4 | 27/5 | 25/6 | 26/7 | 24/8 |
| II |  | 29 | 27 | 28 | SS 26 | 27 | 25 |
| III |  | 30 | 28 | 29 |  | 28 | 26 |
| IV |  | 31 • | 29 | 30 | 28 | 29 | 27 |
| V |  | 1/4 | 30 - | 31 | 29 | 30 | 28 |
| VI |  | 2 | 1/5 | 1/6 | 30 | 31 | 29 |
| VII |  | 3 | 2 | 2 | 1/7 | 1/8 | 30 |
| VIII |  | 4 | 3 | 3 | 2 | 2 | 31 |
| IX |  | 5 | 4 | 4 | 3 | 3 | 1/9 |
| X |  | 6 | 5 | 5 | 4 | 4 | 2 |
| XI |  | 7 | 6 | 6 | 5 | 5 | 3 |
| XII |  | 8 | 7 | 7 | 6 | 6 | 4 |
| XIII |  | 9 | 8 | 8 | 7 | 7 | 5 |
| XIV |  | 10 | 9 | 9 | 8 | 8 | 6 |
| XV | 11/3 | 11 | 10 | 10 | 9 | 9 | 7 |
| XVI | 12 | 12 | 11 | 11 | 10 | 10 | 8 |
| XVII | 13 | 13 | 12 |  | 11 | 11 | 9 |
| XVIII | 14 | 140 | 13 | 13 | 12 | 12 | 10 |
| XIX | 15 | 15 | $14 \bigcirc$ | 14 | 13 | 13 | 11 |
| XX | 160 | 16 | 15 | 15 | 14 | 14 | 12 |
| XXI | 17 | 17 | 16 | 16 | 15 | 15 | 13 |
| XXII | 18 | 18 | 17 | 17 | 16 | 16 | 14 |
| XXIII | 19 | 19 | 18 | 18 | 17 | 17 | 15 |
| XXIV | 20 | 20 | 19 | 19 | 18 | 18 | 16 |
| XXV | 21 | 21 | 20 | 20 | 19 | 19 | 17 |
| XXVI | 22 | 22 | 21 | 21 | 20 | 20 | 18 |
| XXVII | 23 | 23 | 22 | 22 | 21 | 21 | 19 |
| XXVIII | VE 24 | 24 | 23 | 23 | 22 | 22 | 20 |
| XXIX | 25 | 25 | 24 | 24 | 23 | 23 | 21 |
| XXX | 26 |  | 25 |  | 24 |  |  |
| XXXI | 27 |  | 26 |  | 25 |  |  |

C159 Consuls: Cn. Comelius Dolabella, M. Fulvius Nobilior
(Intercal. 22)

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 159 | 159 | 159 | 159/8 | 158 | 158 | 158 |
| I | 22/9 | 23/10* | 21/11* | 20/12 | 18/1 | 10/2 | $9 / 3$ |
| II | 23 - | 24 | 22 | 21 - | 19 | 11 | 10 |
| III | 24 | 25 | 23 | 22 | 20 - | 12 | 11 |
| IV | 25 | 26 | 24 | 23 | 21 | 13 | 12 |
| V | AE 26 | 27 | 25 | ws 24 | 22 | 14 | 13 |
| VI | 27 | 28 | 26 | 25 | 23 | 15 | 14 |
| VII | 23 | 29 | 27 | 26 | 24 | 16 | 15 |
| VIII | 29 | 30 | 28 | 27 | 25 | 17 | 16 |
| IX | 30 | 31 | 29 | 28 | 26 | 18 | 17 |
| X | 1/10 | 1/11 | 30 | 29 | 27 | 19 - | 18 |
| XI | 2 | 2 | 1/12 | 30 | 28 | 20 | 19 |
| XII | 3 | 3 | 2 | 31 | 29 | 21 | 20 |
| XIII | 4 | 4 | 3 | 1/1/158 | 30 | 22 | 21 |
| XIV | 5 | 5 | $\stackrel{3}{4}$ | 2 | 31 | 23 | 22 |
| XV | 6 | 6 | 5 | 3 | 1/2 | 24 |  |
| XVI | 7 | $7 \quad 0$ | 6 | 4 | 2 | 25 |  |
| XVII | 8 | 8 | $7 \quad 0$ | 5 | 3 | 26 |  |
| XVIII | 90 | 9 | 8 | 60 | 40 | 27 |  |
| XIX | 10 | 10 | 9 | 7 | 5 | 28 |  |
| XX | 11 | 11 | 10 | 8 | 6 | 1/3 |  |
| XXI | 12 | 12 | 11 | 9 | 7 | 2. |  |
| XXII | 13 | 13 | 12 | 10 | 8 | 3 |  |
| XXIII | 14 | 14 | 13 | 11 | 9 | 4 |  |
| XXIV | 15 | 15 | 14 | 12 |  | 50 |  |
| XXV | 16 | 16 | 15 | 13 |  | 6 |  |
| XXVI | 17 | 17 | 16 | 14 | $\because$ | 7 |  |
| XXVII | 18 | 18 | 17 | 15 |  | 8 |  |
| XXVIII | 19 | 19 | 18 | 16 |  |  |  |
| XXIX | 20 | 20 | 19 | 17 |  |  |  |
| XXX | 21 |  |  |  |  |  |  |
| XXXI | 22 |  |  |  |  |  |  |

C158 COnsuls: M. Aemilius Lepidus, C. Popillius Laenas

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 158 | 158 | 158 | 158 | 158 | 158 |
| I |  | 8/4 | $7 / 5$ | $7 / 6$ | 6/7 | 6/8 |
| II |  | 9 | 8 | 8 | 7 | 7 |
| III |  | 10 | 9 | 9 | 8 | 8 |
| IV |  | 11 | 10 | 10 | 9 | 9 |
| V |  | 12 | 11 | 11 | 10 | 10 |
| VI |  | 13 | 12 | 12 | 11 | 11 |
| VII |  | 14 | 13 | 13 | 12 | 12 |
| VIII |  | 15 | 14 | 14 | 13 | 13 |
| IX |  | 16 | 15 | 15 | 14 | 14 |
| X |  | 17 | 16 | 16 | 15 | 15 |
| XI |  | 18 | 17 | 17 - | 16 • | 16 |
| XII |  | 19 - | 18 | 18 | 17 | 17 |
| XIII |  | 20 | 19 - | 19 | 18 | 18 |
| XIV |  | 21 | 20 | 20 | 19 | 19 |
| XV | 22/3 | 22 | 21 | 21 | 20 | 20 |
| XVI | 23 | 23 | 22 | 22 | 21 | 21 |
| XVII | VE 24 | 24 | 23 | 23 | 22 | 22 |
| XVIII | 25 | 25 | 24 | 24 | 23 | 23 |
| XIX | 26 | 26 | 25 | 25 | 24 | 24 |
| XX | 27 | 27 | 26 | SS 26 | 25 | 25 |
| XXI | 28 | 28 | 27 | 27 | 26 | 26 |
| XXII | 29 | 29 | 28 | 28 | 27 | 27 |
| XXIII | 30 | 30 | 29 | 29 | 28 | 28 |
| XXIV | 31 | $1 / 5$ | 30 | 30 | 29 | 29 |
| XXV | $1 / 4$ | 2 | 31 | 1/7 0 | $30 \quad 0$ | 30 |
| XXVI | 2 | 30 | $1 / 6 \quad 0$ | 2 | 31 | 31 |
| XXVII | 3 | 4 | 2 | 3 | 1/8 | 1/9 |
| XXVIII | 40 | 5 | 3 | 4 | 2 | 2 |
| XXIX | 5 | 6 | 4 | 5 | 3 | 3 |
| XXX | 6 |  | 5 |  | 4 |  |
| XXXI | 7 |  | 6 |  | 5 |  |

C158 Consuls: M. Aemilius Lepidus, C. Popillius Laenas

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 158 | 158 | 158 | 158 | 158/7 | 157 | 157 |
| I | 4/9 | 3/10 | 3/11 | $2 / 12$ | 31/12 | $29 / 1$ | $26 / 2$ |
| II | 5 | 4 | 4 | 3 | 1/1/157 | 30 | 27 |
| III | 6 | 5 | 5 | 4 | 2 | 31 | 28 |
| IV | 7 | 6 | 6 | 5 | 3 | 1/2 | 29 |
| V | 8 | 7 | 7 | 6 | 4 | 2 | 1/3 |
| VI | 9 | 8 | 8 | 7 | 5 | 3 | 2 |
| VII | 10 | 9 | 9 | 8 | 6 | 4 | 3 |
| VIII | 11 | 10 | 10 | 9 | 7 | 5 | 4 |
| IX | 12 | 11 | 11 - | 10 - | 8 | 6 | 5 |
| X | 13 - | 12 | 12 | 11 | 9 - | 7 | 6 |
| XI | 14 | 13 - | 13 | 12 | 10 | 8 - | 7 |
| XII | 15 | 14 | 14 | 13 | 11 | 9 | 8 |
| XIII | 16 | 15 | 15 | 14 | 12 | 10 | 9 |
| XIV | 17 | 16 | 16 | 15 | 13 | 11 | 10 |
| XV | 18 | 17 | 17 | 16 | 14 | 12 |  |
| XVI | 19 | 18 | 18 | 17 | 15 | 13 |  |
| XVII | 20 | 19 | 19 | 18 | 16 | 14 |  |
| XVIII | 21 | 20 | 20 | 19 | 17 | 15 |  |
| XIX | 22 | 21 | 21 | 20 | 18 | 16 |  |
| XX | 23 | 22 | 22 | 21 | 19 | 17 |  |
| XXI | 24 | 23 | 23 | 22 | 20 | 18 |  |
| XXII | 25 | 24 | 24 | 23 | 21 | 19 |  |
| XXIII | AE 26 | 25 | 25 | ws 24 | 22 | 20 |  |
| XXIV | 27 | 26 | 26 ○ | 25 | 23 | 21 |  |
| XXV | 280 | 27 | 27 | $26 \quad 0$ | 24 | 22 |  |
| XXVI | 29 | 28 - | 28 | 27 | $25 \quad \circ$ | 23 - |  |
| XXVII | 30 | 29 | 29 | 28 | 26 | 24 |  |
| XXVIII | 1/10 | 30 | 30 | 29 | 27 | 25 |  |
| XXIX | 2 | 31 | 1/12 | 30 | 28 |  |  |
| XXX |  | 1/11 |  |  |  |  |  |
| XXXI |  | 2 |  |  |  |  |  |

C157 Consuls: Sex. Iulius Caesar, L. Aurelius Orestes

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 157 | 157 | 157 | 157 | 157 | 157 | 157 |
| I |  | 28/3 | 26/4 | $27 / 5$ | SS 25/6 | 26/7 | 24/8 |
| II |  | 29 | 27 | 28 | 26 | 27 | 25 |
| III |  | 30 | 28 | 29 | 27 | 28 | 26 |
| IV |  | 31 | 29 | 30 | 28 | 29 | 27 |
| V |  | 1/4 | 30 | 31 | 29 | 30 | 28. |
| VI |  | 2 | 1/5 | 1/6 | 30 | 31 | 29 |
| VII |  | 3 | 2 | 2 | 1/7 | 1/8 | 30 |
| VIII |  | 4 | 3 | 3 | 2 | 2 | 31 |
| IX |  | 5 | 4 | 4 | 3 | 3 • | 1/9 |
| X |  | 6 | 5 | 5 - | 4 | 4 | 2 |
| XI |  | 7 - | 6 | 6 | 5 • | 5 | 3 |
| XII |  | 8 | 7 - | 7 | 6 | 6 | 4 |
| XIII |  | 9 | 8 | 8 | 7 | 7 | 5 |
| XIV |  | 10 | 9 | 9 | 8 | 8 | 6 |
| XV | 11/3 | 11 | 10 | 10 | 9 | 9 | 7 |
| XVI | 12 | 12 | 11 | 11 | 10 | 10 | 8 |
| XVII | 13 | 13 | 12 | 12 | 11 | 11 | 9 |
| XVIII | 14 | 14 | 13 | 13 | 12 | 12 | 10 |
| XIX | 15 | 15 | 14 | 14 | 13 | 13 | 11 |
| XX | 16 | 16 | 15 | 15 | 14 | 14 | 12 |
| XXI | 17 | 17 | 16 | 16 | 15 | 15 | 13 |
| XXII | 18 | 18 | 17 | 17 | 16 | 16 | 14 |
| XXIII | 19 | 19 | 18 | 18 | 17 | $17 \quad 0$ | 15 |
| XXIV | 20 | 20 | 19 | $19 \quad 0$ | 18 | 18 | 16 |
| XXV | 21 | 21 | 20 | 20 | 19 ○ | 19 | 17 |
| XXVI | 22 | 220 | 210 | 21 | 20 | 20 | 18 |
| XXVII | VE $23 \quad 0$ | 23 | 22 | 22 | 21 | 21 | 19 |
| XXVIII | 24 | 24 | 23 | 23 | 22 | 22 | 20 |
| XXIX | 25 | 25 | 24 | 24 | 23 | 23 | 21 |
| XXX | 26 |  | 25 | , | 24 |  | . |
| XXXI | 27 |  | 26 |  | 25 |  |  |

C157 Consuls: Sex. Iulius Caesar, L. Aurelius Orestes
(Intercal. 23)

|  | OCT | NOV | DEC | Jan | FEB | INTERK | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 157 | 157 | 157 | $157 / 6$ | 156 | 156 | 156 |
| I | 22/9 | 23/10 | 21/11 | $20 / 12$ | 18/1 | 11/2 | 10/3 |
| II | 23 | 24 | 22 | 21 | 19 | 120 | 11 |
| III | 24 | 25 | 23 | 22 | 20 | 13 | 12 |
| IV | 25 | 26 | 24 | ws 23 | 21 | 14 | 13 - |
| v | AE 26 | 27 | 25 | 24 | 22 | 15 | 14 |
| VI | 27 | 28 | 26 | 25 | 23 | 16 | 15 |
| VII | 28 | 29 | 27 | 26 | 24 | 17 | 16 |
| VIII | 29 | 30 | 28 | 27 | 25 | 18 | 17 |
| IX | 30 | 31 • | 29 • | 28 | 26 | 19 | 18 |
| x | 1/10 ${ }^{\text {- }}$ | 1/11 | 30 | 29 - | 27 • | 20 | 19 |
| XI | 2 | 2 | 1/12 | 30 | 28 | 21 | 20 |
| XII | 3 | 3 | 2 | 31 | 29 | 22 | 21 |
| XIII | 4 | 4 | 3 | 1/1/156 | 30 | 23 | 22 |
| XIV | 5 | 5 | 4 | 2 | 31 | 24 | 23 |
| XV | 6 | 6 | 5 | 3 | 1/2 | 25 |  |
| XVI | 7 | 7 | 6 | 4 | 2 | 26 - |  |
| XVII | 8 | 8 | 7 | 5 | 3 | 27 |  |
| XVIII | 9 | 9 | 8 | 6 | 4 | 28 |  |
| XIX | 10 | 10 | 9 | 7 | 5 | 1/3 |  |
| XX | 11 | 11 | 10 | 8 | 6 | 2 |  |
| XxI | 12 | 12 | 11 | 9 | 7 | 3 |  |
| XXII | 13 | 13 | 12 | 10 | 8 | 4 |  |
| XXIII | 14 | 14 ○ | 13 | 11 | 9 | 5 |  |
| XxIV | 15 | 15 | 140 | 12 | 10 | 6 |  |
| XxV |  | 16 | 15 | $13 \bigcirc$ |  | 7 |  |
| XXVI | 17 | 17 | 16 | 14 |  | 8 |  |
| XXVII | 18 | 18 | 17 | 15 |  | 9 |  |
| XXVIII | 19 | 19 | 18 | 16 |  |  |  |
| XXIX | 20 | 20 | 19 | 17 |  |  |  |
| xxx | 21 |  |  |  |  |  |  |
| XXXI | 22 |  |  |  |  |  |  |

C156 Consuls: L. Cornelius Lentulus Lupus, C. Marcius Figulus

|  | MAR | APR | MAI | JUN | QUI | SEX |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 156 | 156 | 156 | 156 | 156 | 156 |
| I |  | 10/4 | 915 | $9 / 6 \quad 0$ | $8 / 7$ ○ | 8/8 |
| II |  | 110 | 10 | 10 | 9 | 9 |
| III |  | 12 | 110 | 11 | 10 | 10 |
| IV |  | 13 | 12 | 12 | 11 | 11 |
| V |  | 14 | 13 | 13 | 12 | . 12 |
| VI |  | 15 | 14 | 14 | 13 | 13 |
| VII |  | 16 | 15 | 15 | 14 | 14 |
| VIII |  | 17 | 16 | 16 | 15 | 15 |
| IX |  | 18 | 17 | 17 | 16 | 16 |
| X |  | 19 | 18 | 18 | 17 | 17 |
| XI |  | 20 | 19 | 19 | 18 | 18 |
| XII |  | 21 | 20 | 20 | 19 | 19 |
| XIII |  | 22 | 21 | 21 | 20 | 20 |
| XIV |  | 23 | 22 | 22 | 21 | 21 |
| XV | VE $24 / 3$ | 24 | 23 | 23 | 22 | 22 |
| XVI | 25 | 25 | 24 | 24 - | 23 | 23 |
| XVII | 26 | $26 \quad \bullet$ | $25 \quad$ | 25 | $24 \quad \bullet$ | 24 |
| XVIII | $27 \quad 0$ | 27 | 26 | Ss 26 | 25 | 25 |
| XIX | 28 | 28 | 27 | 27 | 26 | 26 |
| XX | 29 | 29 | 28 | 28 | 27 | 27 |
| XXI | 30 | 30 | 29 | 29 | 28 | 28 |
| XXII | 31 | 1/5 | 30 | 30 | 29 | 29 |
| XXIII | 1/4 | 2 | 31 | 1/7 | 30 | 30 |
| XXIV | 2 | 3 | 1/6 | 2 | 31 | 31 |
| XXV | 3 | 4 | 2 | 3 | 1/8 | 1/9 |
| XXVI | 4 | 5 | 3 | 4 | 2 | 2 |
| XXVII | 5 | 6 | 4 | 5 | 3 | 3 |
| XXVIII | 6 | 7 | 5 | 6 | 4 | 4 |
| XXIX | 7 | 8 | 6 | 7 | 5 | 5 |
| XXX | 8 |  | 7 |  | 6 |  |
| XXXI | 9 |  | 8 |  | $7 \quad 0$ |  |

C156 Consuls: L. Cornelius Lentulus Lupus, C. Marcius Figulus

|  | SEP | OCT | NOV | DEC | JAN | FEB | MAR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 156 | 156 | 156 | 156/5 | 155 | 155 | 15.5 |
| I | 6/9 | 51100 | 5/11 | 4/12 | $2 / 10$ | 31/1 | 28/2 |
| II | 7 | 6 | 6 | 5 | 3 | $1 / 2 \quad 0$ | 1/3 |
| III | 8 | 7 | 7 | 6 | 4 | 2 | 20 |
| IV | 9 | 8 | 8 | 7 | 5 | 3 | 3 |
| V | 10 | 9 | 9 | 8 | 6 | 4 | 4 |
| VI | 11 | 10 | 10 | 9 | 7 | 5 | 5 |
| VII | 12 | 11 | 11 | 10 | 8 | 6 | 6 |
| VIII | 13 | 12 | 12 | 11 | 9 | 7 | 7 |
| IX | 14 | 13 | 13 | 12 | 10 | 8 | 8 |
| X | 15 | 14 | 14 | 13 | 11 | 9 | 9 |
| X1 | 16 | 15 | 15 | 14 | 12 | 10 | 10 |
| XII | 17 | 16 | 16 | 15 | 13 | 11 | 11 |
| XIII | 18 | 17 | 17 | 16 | 14 | 12 | 12 |
| XIV | 19 | 18 | 18 | 17 | 15 | 13 | 13 |
| XV | 20 | 19 | 19 - | 18 - | 16 | 14 |  |
| XVI | 21 | 20 - | 20 | 19 | 17 - | 15 - |  |
| XVII | 22 | 21 | 21 | 20 | 18 | 16 |  |
| XVIM | 23 | 22 | 22 | 21 | 19 | 17 |  |
| XIX | 24 | 23 | 23 | 22 | 20 | 18 |  |
| XX | 25 | 24 | 24 | 23 | 21 | 19 |  |
| XXI | AE 26 | 25 | 25 | ws 24 | 22 | 20 |  |
| XXII | 27 | 26 | 26 | 25 | 23 | 21 |  |
| XXIII | 28 | 27 | 27 | 26 | 24 | 22 |  |
| XXIV | 29 | 28 | 28 | 27 | 25 | 23 |  |
| XXV | 30 | 29 | 29 | 28 | 26 | 24 |  |
| XXVI | 1/10 | 30 | 30 | 29 | 27 | 25 |  |
| XXVII | 2 | 31 | 1/12 | 30 | 28 | 26 |  |
| XXVIII | 3 | 1/11 | 2 | 31 | 29 | 27 |  |
| XXIX | 4 | 2 | $3 \%$ | 1/1/155 | 30 |  |  |
| XXX |  | 30 |  |  |  |  |  |
| XXXI |  | 4 |  |  |  |  |  |

C155 Consuls: P. Cornelius Scipio Nasica, M. Claudius Marcellus

|  | MAR | APR | MAI | JUN | QUI | SEX | SEP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 155 | 155 | 155 | 155 | 155 | 155 | 155 |
| I |  | 31/3 | 29/4 | $30 / 50$ | $28 / 6$ ○ | $29 / 7$ | 27/8 |
| II |  | 1/4 0 | 30 - | 31 | 29 | 30 | 28 |
| III |  | 2 | 1/5 | 1/6 | 30 | 31 | 29 |
| IV |  | 3 | 2 | 2 | 1/7 | 1/8 | 30 |
| V |  | 4 | 3 | 3 | 2 | 2 | 31 |
| VI |  | 5 | 4 | 4 | 3 | 3 | 1/9 |
| VII |  | 6 | 5 | 5 | 4 | 4 | 2 |
| VIII |  | 7 | 6 | 6 | 5 | 5 | 3 |
| IX |  | 8 | 7 | 7 | 6 | 6 | 4 |
| X |  | 9 | 8 | 8 | 7 | 7 | 5 |
| XI |  | 10 | 9 | 9 | 8 | 8 | 6 |
| XII |  | 11 | 10 | 10 | 9 | 9 | 7 |
| XIII |  | 12 | 11 | 11 | 10 | 10 | 8 |
| XIV |  | 13 | 12 | 12 | 11 | $11 *$ | 9 |
| XV | 14/3 | 14 | 13 | 13 - | 12 | 12 | 10 |
| XVI | 15 | 15 - | 14 - | 14 | 13 - | 13 | 11 |
| XVII | 16 • | 16 | 15 | 15 | 14 | 14 | 12 |
| XVIII | 17 | 17 | 16 | 16 | 15 | 15 | 13 |
| XIX | 18 | 18 | 17 | 17 | 16 | 16 | 14 |
| XX | 19 | 19 | 18 | 18 | 17 | 17 | 15 |
| XXI | 20 | 20 | 19 | 19 | 18 | 18 | 16 |
| XXII | 21 | 21 | 20 | 20 | 19 | 19 | 17 |
| XXIII | 22 | 22 | 21 | 21 | 20 | 20 | 18 |
| XXIV | 23 | 23 | 22 | 22 | 21 | 21 | 19 |
| XXV | ve 24 | 24 | 23 | 23 | 22 | 22 | 20 |
| XXVI | 25 | 25 | 24 | 24 | 23 | 23 | 21 |
| XXVII | 26 | 26 | 25 | 25 | 24 | 24 | 22 |
| XXVIII | 27 | 27 | 26 | Ss 26 | 25 | 25 | 23 |
| XXIX | 28 | 28 | 27 | 27 | 26 | $26 \quad 0$ | 24 |
| XXX | 29 |  | 28 |  | 27 ○ |  |  |
| XXXI | 30 |  | 29 |  | 28 |  |  |

C155 Consuls: P. Cornelius Scipio Nasica, M. Claudius Marcellus

|  | OCT | NOV | DEC | JAN | FEB | INTERK | MAR |
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|  | 155 | 155 | 155 | 155/4 | 154 | 154 | 154 |
| J | 25/9 | 26/10 | 24/11 | 23/12 | 21/1 0 | 13/2 | 12/3 |
| II | AE 26 | 27 | 25 | ws 24 | 22 | 14 | 13 |
| III | 27 | 28 | 26 | 25 | 23 | 15 | 14 |
| IV | 28 | 29 | 27 | 26 | 24 | 16 | 15 |
| V | 29 | 30 | 28 | 27 | 25 | 17 | 16 |
| VI | 30 | 31 | 29 | 28 | 26 | 18 | 17 |
| VII | 1/10 | 1/11 | 30 | 29 | 27 | 19 - | 18 |
| VIII | 2 | 2 | 1/12 | 30 | 28 | 29 | 19 |
| IX | 3 | 3 | 2 | 31 | 29 | 21 | - 20 |
| X | 4 | 4 | 3 | 1/1/154 | 30 | 22 | 21 |
| XI | 5 | 5 | 4 | 2 | 31 | 23 | 22 |
| XII | 6 | 6 | 5 | 3 | 1/2 | 24 | 23 |
| XIII | 7 | 7 | 6 | 4 | 2 | 25 | ve 24 |
| XIV | 8 | 8 • | 7 | 5 | 3 | 26 | 2.5 |
| XV | 9 | 9 | 8 • | 6 | 4 | 27 |  |
| XVI | 10 | 10 | 9 | 7 | 5 | 28 |  |
| XVII | 11 | 11 | 10 | 8 | 6 | 1/3 |  |
| XVIII | 12 | 12 | 11 | 9 | 7 | 2 |  |
| XIX | 13 | 13 | 12 | 10 | 8 | 3 |  |
| XX | 14 | 14 | 13 | 11 | 9 | 4 |  |
| XXI | 15 | 15 | 14 | 12. | 10 | 5 |  |
| XXII | 16 | 16 | 15 | 13 | 11 | 6 - |  |
| XXIII | 17 | 17 | 16 | 14 | 12 | 7 |  |
| XXIV | 18 | 18 | 17 | 15 |  | 8 |  |
| XXV | 19 | 19 | 18 | 16 |  | 9 |  |
| XXVI | 20 | 20 | 19 | 17 |  | 10 |  |
| XXVII | 21 | 21 | 20 | 18 |  | 11 |  |
| XXVIII | 22 | 220 | 21 | 19 |  |  |  |
| XXIX | 23 | 23 | 22 ○ | 20 |  |  |  |
| XXX | 24 |  |  |  |  |  |  |
| XXXI | 25 |  |  |  |  |  |  |

C154 Consuls: Q. Opimius, L. Postumius Albinus


C154 Consuls: Q. Opimius, L. Postumius Albinus

|  | SEX | SEP | OCT | NOV | DEC |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 154 | 154 | 154 | 154 | 154/3 |
| I | 10/8 | $8 / 9$ | 7/10 | 7/1i | 6/12 |
| II | 11 | 9 | 8 | 8 | 7 |
| III | 12 | 10 | 9 | 9 | 8 |
| IV | 13 | 11 | 10 | 10 | 9 |
| V | 14 | 12 | 11 | 11 | 10 |
| VI | 15 | 13 | 12 | 12 | 11 |
| VII | 16 | 14 | 13 | 13 | 12 |
| VIII | 17 | 15 | 14 | 14 | 13 |
| IX | 18 | 16 | 15 | 15 | 14 |
| X | 19 | 17 | 16 | 16 | 15 |
| XI | 20 | 18 | 17 | 17 | 16 |
| XII | 21 | 19 | 18 | 18 | 17 |
| XIII | 22 | 20 | 19 | 19 | 18 |
| XIV | 23 | 21 | 20 | 20 | 19 |
| XV | 24 | 22 | 21 | 21 | 20 |
| XVI | 25 | 23 | 22 | 22 | 21 |
| XVII | 26 | 24 | 23 | 23 | 22 |
| XVIII | 27 | 25 | 24 | 24 | 23 |
| XIX | 28 | AE 26 | 25 | 25 | WS 24 |
| XX | 29 | 27 | 26 | 26 | 25 |
| XXI | 30 | 28 | 27 | 27 | 26 |
| XXII | 31 | 29 | 28 | 28 | 27 |
| XXIII | 1/9 | 30 | 29 | 29 | 28 |
| XXIV | 2 | 1/10 | 30 | 30 | 29 |
| XXV | 3 | 2 | 31 | 1/12 | 30 |
| XXVI | 4 | 3 | 1/11 | 2 | 31 |
| XXVII | 5 | 4 | 2 | 3 | 1/1/153 |
| XXVIII | 6 | 5 | 3 | 4 | 2 |
| XXIX | 7 | 6 | 4 | 5 | 3 |
| XXX |  |  | 5 |  |  |
| XXXI |  |  | 6 |  |  |

## Appendix:

Julian Days (C218-C154)

## Julian Days (C218-C154)

In 1582, Joseph Scaliger created a continuous dating system whose measuremen unit was a so-called julian day that ran from noon to noon UT. Largely for astronomica reasons the base date chosen was January 1, 4713 BCE. Julian day 0 commenced, then at noon UT on this day, julian day 1 at noon UT on January 2, 4713 BCE, julian day 2 a noon UT on January 3, 4713 BCE , and so on and so forth. Given the utility of julian day as absolute chronological markers, I have tabulated in what follows those that woul correspond, given the correctness of my calendrical calibrations, to the Ides of March an the Kalends of all months of all Roman consular years from C218 to C154 inclusive.

| CON. <br> YEAR | IDES MAR. | KAL. APR. | KAL. <br> MAI | KAL. JUN. | KAL. QUI. | KAL. SEX. | KAL. SEP. | KAL. OCT. | KAL. NOV. | KAL. DEC. | KAL. JAN. | KAL. FEB. | KAL. INT. | KAL. MAR. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 218 | 1641885 | 1641902 | 1641931 | 1641962 | 1641991 | 1642022 | 1642051 | 1642080 | 1642111 | 1642140 | 1642169 | 1642198 | 1642221 | 1642248 |
| 217 | 1642262 | 1642279 | 1642308 | 1642339 | 1642368 | 1642399 | 1642428 | 1642457 | 1642488 | 1642517 | 1642546 | 1642575 |  | 1642503 |
| 216 | 1642617 | 1642634 | 1642663 | 1642694 | 1642723 | 1642754 | 1642783 | 1642812 | 1642843 | 1642872 | 1642901 | 1642930 | 1642954 | 164298: |
| 215 | 1642995 | 1643012 | 1643041 | 1643072 | 1643101 | 1643132 | 1643161 | 1643190 | 1643221 | 1643250 | 1643279 | 1643308 |  | 1643336 |
| 214 | 1643350 | 1643367 | 1643396 | 1643427 | 1643456 | 1643487 | 1643516 | 1643545 | 1643576 | 1643605 | 1643634 | 1643663 | 1643686 | 1643713 |
| 213 | 1643727 | 1643744 | 1643773 | 1643804 | 1643833 | 1643864 | 1643893 | 1643922 | 1643953 | 1643982 | 1644011 | 1644040 |  | 1644068 |
| 212 | 1644082 | 1644099 | 1644128 | 1644159 | 1644188 | 1644219 | 1644248 | 1644277 | 1644308 | 1644337 | 1644366 | 1644395 | 1644419 | 1644446 |
| 211 | 1644460 | 1644477 | 1644506 | 1644537 | 1644566 | 1644597 | 1644626 | 1644655 | 1644686 | 1644715 | 1644744 | 1c. 773 |  | 1644801 |
| 210 | 1644815 | 1644832 | 1644861 | 1644892 | 1644921 | 1644952 | 1644981 | 1645010 | 1645041 | 1645070 | 1645099 | 1645128 | 1645151 | 1645178 |
| 209 | 1645192 | 1645209 | 1645238 | 1645269 | 1645298 | 1645329 | 1645358 | 1645387 | 1645418 | 1645447 | 1645476 | 1645505 |  | 1645533 |
| 208 | 1645547 | 1645564 | 1645593 | 1645624 | 1645453 | 1645683 | 1645713 | 1645742 | 1645773 | 1645802 | 1645831 | 1645860 |  | 1645888 |
| 207 | 1645902 | 1645919 | 1645948 | 1645979 | 1646008 | 1646039 | 1646068 | 1646097 | 1646128 | 1646157 | 1646186 | 1646215 |  | 1646243 |
| 206 | 1646257 | 1646274 | 1646303 | 1646334 | 1646363 | 1646394 | 1646423 | 1646452 | 1646483 | 1646512 | 1646541 | 1646570 |  | 1646598 |
| 205 | 1646612 | 1646629 | 1646658 | 1646689 | 1646718 | 1646749 | 1646778 | 1645807 | 1646838 | 1646867 | i646896 | 1646925 |  | 1646953 |
| 204 | 1646967 | 1646984 | 1647013 | 1647044 | 1647073 | 1647104 | 1647133 | 1547162 | 1647193 | 1647222 | 1647251 | 1647280 |  | 1647308 |
| 203 | 1647322 | 1647339 | 1647368 | 1647399 | 1647428 | 1647459 | 1647488 | 1647517 | . 1647548 | 1647577 | 1647006 | 1647635 |  | 1647663 |
| 202 | 1647677 | 1647694 | 1647723 | 1647754 | 1647783 | 1647814 | 1647843 | 1647872 | 1647903 | 1647932 | 1647961 | 1647990 |  | 1648018 |
| 201 | 1648032 | 1648049 | 1648078 | 1648109 | 1648138 | 1648169 | 1648198 | 1648227 | 1648258 | 1648287 | 1648316 | 1648345 |  | 1648373 |
| 200 | 1648387 | 1648404 | 1648433 | 1648464 | 1648493 | 1648524 | 1648553 | 1648582 | 1648613 | 1648642 | 1648671 | 1648700 |  | 1648728 |


| CON. YEAR | IDES MAR. | XAL. APR. | KA.L. <br> MAI | KAL. JUN. | KAL. QU. | KAL. SEX. | KAL. SER. | $\begin{aligned} & \text { KAL. } \\ & \text { OCT. } \end{aligned}$ | nèL. NOV. | KAL. DEC. | KAL JAN. | KAZ. FEB. | KAL. iNT. | KAL. MAR. |
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| 199 | 10648742 | 1648759 | 1648788 | 1648819 | 1648848 | 1648879 | 1648895 | 1648937 | 1648968 | 1648997 | 1649026 | 1649055 |  | 1649083 |
| 198 | 1649097 | 1649114 | 1649143 | 1649173 | 1643203 | 1649234 | 1649263 | ; $64929: 1$ | 1649323 | 1649352 | 1649381 | 1649410 |  | 1649438 |
| 197 | 1649452 | 1649469 | 1649498 | 1649529 | 1649558 | 1649585 | 1649618 | 1699547 | 1649678 | 1649707 | 1649736 | 1649765 |  | 1649793 |
| 196 | 1549807 | 1649824 | 1649853 | 1649884 | 1649913 | 1649944 | 1649973 | 1650002 | 1650033 | 1650052 | 165ก991 | 1650130 |  | 1650148 |
| 195 | 1650162 | 1650179 | 1650208 | 1650239 | 1650268 | 1650299 | 1650328 | 1650357 | 1650388 | 1650417 | 1050446 | 1650475 |  | 1650503 |
| 194 | 1650517 | 1650534 | 1650563 | 1650594 | 1650623 | 1650654 | 1650683 | 1650712 | 1650743 | 1650772 | 1650801 | 1650830 |  | 1650858 |
| 193 | 1650872 | 1650889 | 1650918 | 1650949 | 1650978 | 1651009 | 1651038 | 1651067 | 1651098 | 16.1127 | 1651156 | 1651185 | 1651209 | 1651236 |
| 192 | 1651250 | 1651267 | 1651296 | 1651327 | 1651356 | 1651387 | 1651416 | 1651445 | 1651476 | 1651505 | 1651534 | 1651563 |  | 1651591 |
| 191 | 1651605 | 1651622 | 1651651 | 1651682 | 1651711 | 1651742 | 1651771 | 1651800 | 1651831 | 1651860 | 1651889 | 1651918 | 1651941 | 1651968 |
| 190 | 1651982 | 1651999 | 1652028 | 1652059 | 1652088 | 1652119 | 1652148 | 1652177 | 1652208 | 1652237 | 1652266 | 1652295 |  | 1652323 |
| 189 | 1652337 | 1652354 | 1652383 | 1652414 | 1652443 | 1652474 | 1652503 | 1652531 | 1652562 | 1652591 | 1652620 | 1652649 | $\bigcirc 652673$ | 1652701 |
| 188 | 1652715 | 1652732 | 1652761 | 1652792 | 1652821 | 1652850 | 1652881 | 1652910 | 1652941 | 1652970 | 1652999 | 1633028 |  | 1653056 |
| 187 | 1653070 | 1653087 | 1653116 | 1653147 | 1653176 | 1653207 | 1653236 | 1653265 | 1653296 | 1653325 | 1653354 | 1653383 | 1653407 | 1653434 |
| 186 | 1653448 | 1653465 | 1653494 | 1653525 | 1653554 | 1653585 | 1653614 | 1653643 | 1653674 | 1653703 | 1653732 | 1653761 |  | 1653789 |
| 185 | 1653803 | 1653820 | 1653849 | 1653880 | 1653909 | 1653940 | 1653969 | 1653998 | 1654029 | 1654058 | 1654087 | 1654116 | 1654140 | 1654167 |
| 184 | 1654181 | 1654198 | 1654227 | 1654258 | 1654287 | 1654318 | 1654347 | 1654376 | 1654407 | 1654436 | 1654465 | 1654494 |  | 1654522 |
| 183 | 1654536 | 1654553 | 1654582 | 1654613 | 1654642 | 1654673 | 1654702 | 1654731 | 1654762 | 1654791 | 1654820 | 1654849 | 1654873 | 1654900 |
| 182 | 1654914 | 1654931 | 1654960 | 1654991 | 1655020 | 1655051 | 1655080 | 1655109 | $\underline{.} 1655140$ | 1655169 | 1655198 | 1655227 |  | 1655255 |
| 181 | 1655269 | 1655286 | 1655315 | 1655346 | 10655375 | 1655406 | 1655435 | 1655464 | 1655495 | 1655524 | 1655553 | 1655582 | 1655606 | 1655633 |


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| 180 | 1655647 | 1655664 | 1655693 | 1655724 | 1655753 | 1655784 | 1655813 | 1655842 | 1655873 | 1655902 | 1655931 | 1655960 |  | 1655988 |
| 179 | 1656002 | 1656019 | 1656048 | 1656079 | 1656108 | 1656139 | 1656168 | 1656197 | 1656228 | 1656257 | 1656286 | 1656315 | 1656339 | 1656366 |
| 178 | 1656380 | 1656397 | 1656426 | 1656457 | 1656486 | 1656517 | 1656546 | 1656575 | 1656606 | 1656635 | 1656664 | 1656693 |  | 1656721 |
| 177 | 1656735 | 1656752 | 1656781 | 1656812 | 1656841 | 1656872 | 1656901 | 1656930 | 1656961 | 1656990 | 1657019 | 1657048 | 1657072 | 1657099 |
| 176 | 1657113 | 1657130 | 1657159 | 1657190 | 1657219 | 1657250 | 1657279 | 1657308 | 1657339 | 1657368 | 1657397 | 1657426 |  | 1657454 |
| 175 | 1657468 | 1657485 | 1657514 | 1657545 | 1657574 | 1657605 | 1657634 | 1657663 | 1657694 | 1657723 | 1657752 | 1657781 | 1657804 | 1657831 |
| 174 | 1657845 | 1657862 | 1657891 | 1657922 | 1657951 | 1657982 | 1658011 | 1658040 | 1658071 | 1658099 | 1658129 | 1658158 |  | 1658186 |
| 173 | 1658200 | 1658217 | 1658246 | 1658277 | 1658307 | 1658337 | 1658366 | 1658395 | 1658426 | 1658455 | 1658484 | 1658513 | 1658537 | 1658564 |
| 172 | 1658578 | 1658595 | 1658624 | 1658655 | 1658684 | 1658715 | 1658744 | 1658773 | 1658804 | 1658833 | 1658862 | 1658891 |  | 1658919 |
| 171 | 1658933 | 1658950 | 1658979 | 1659010 | 1659039 | 1659070 | 1659099 | 1659128 | 1659159 | 1659188 | 1659217 | 1659246 | 1659269 | 1659296 |
| 170 | 1659310 | 1659327 | 1659356 | 1659387 | 1659416 | 1659447 | 1659476 | 1659505 | 1659536 | 1659565 | 1659594 | 1659623 | 1659647 | 1659674 |
| 169 | 1659688 | 1659705 | 1659734 | 165976: | 1659794 | 1659825 | 1659854 | 1659883 | 1659914 | 1659943 | 1659972 | 1660001 | 1660024 | 1660051 |
| 168 | 1660065 | 1660082 | 1660111 | 1660142 | 1660171 | 1660202 | 1660231 | 1660260 | 1660291 | 1660320 | 1660349 | 1660378 | 1660402 | 1660429 |
| 167 | 1660442 | 1660460 | 1660489 | 1660520 | 1660549 | 1660580 | 1660609 | 1660638 | 1660669 | 1660698 | 1660727 | 1660756 | 1660779 | 1660806 |
| 166 | 1660820 | 1660837 | 1660866 | 1660897 | 1660926 | 1660957 | 1660986 | 1661015 | 1661046 | 1661075 | 1661104 | 1661133 | 1661157 | 1661184 |
| 165 | 1661198 | 1661215 | 1661244 | 1661275 | 1661304 | 1661335 | 1661364 | 1661393 | 1661424 | 1661453 | 1661482 | 1661511 | 1661534 | 1661561 |
| 164 | 1661575 | 1661582 | 1661621 | 1661652 | 1661681 | 1661712 | 1661741 | 1661770 | 1661801 | 1661830 | 1661859 | 1661888 | 1661912 | 1661939 |
| 163 | 1661953 | 1661970 | 1661999 | 1662030 | 1662059 | 1662090 | 1662119 | 1662148 | 1662179 | 1662208 | 1662237 | 1662266 | 1662286 | 1662316 |
| 162 | 1662330 | 1662347 | 1662376 | 1662407 | 1662436 | 1662467 | 1662496 | 1662525 | 1662556 | 1662585 | 1662614 | 1662643 |  | 1662671 |


| CON. <br> YEAR | $\begin{aligned} & \text { IDES } \\ & \text { MAR. } \end{aligned}$ | KAL. APR. | KAL. MAI | KAL. JUN. | KAL. QUI. | KAL. SEX. | KAL. SEP. | KAL. OCT. | KAL. NOV. | KAL. DEC. | KAL. JAN. | KAL. FEB. | KAL. INT. | KAL. MAR. |
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| 161 | 1662685 | 1662702 | 1662731 | 1662762 | 1662791 | 1662822 | 1662851 | 1662880 | 1662911 | 1552940 | 1662969 | 1662998 | 1663022 | 1663049 |
| 160 | 1663063 | 1663080 | 1663109 | 1663140 | 1663169 | 1663200 | 1663229 | 1663258 | 1663289 | 1663318 | 1663347 | 1663376 |  | 1663404 |
| 159 | 1663411 | 1663435 | 1663464 | 1663495 | 1663524 | 1663555 | 1663584 | 1663613 | 1663644 | 1663673 | 1663702 | 1663731 | 1663754 | 1663781 |
| 158 | 1663794 | 1663811 | 1663840 | 1663871 | 1663900 | 1663831 | 1663960 | 1663989 | 1664020 | 1664049 | 1664078 | 1664107 |  | 1664104 |
| 157 | 1664120 | 1664166 | 1664195 | 1664226 | 1664255 | 1664286 | 1564315 | 1664343 | 1664375 | 1664404 | 1664433 | 1664462 | 1664486 | 1664513 |
| 156 | 1664527 | 1664544 | 1664573 | 1664604 | 1664633 | 1664664 | 1664696 | 1664722 | 1664753 | 1664782 | 1664811 | 1664840 |  | 1664868 |
| 155 | 1664882 | 1664899 | 1664928 | 1664959 | 1664988 | 1665019 | 1665148 | 1665077 | 1665108 | 1665137 | 1665166 | 1665195 | 1665218 | 1665245 |
| 154 | 1665259 | 1665276 | 1665305 | 1665336 | 1665365 | 1665396 | 1665425 | 1665454 | 1665485 | 1665514 |  |  |  |  |

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# The Prodigies of the Ancient Roman Republic and their Chronology. 

## A Resource for Modern Science.

VOLUME TWO

Submitted for Degree of Doctor of Philosophy
by
Dana K. Nielsen
B.A. (Hons) Monash.

# Part Three 

## The Prodigial Record 218-167 BCE

Section One

Livy

## Chapter Five

Livy, the $A b$ Urbe Condita Libri, the prodigy lists for 218-167 BCE, and their origin and completeness

## A. Preface

As already noted, our main source, directly or indirectly, for prodigia reported, processed and expiated during the period of the Roman republic is the historian Livy. The content of Livy's prodigia lists for the period 218-167 BCE inclusive, together with comments, is presented in chapter o. The purposes of the present chapter are to provide some basic data about Livy himself (section B) and his massive narrative history of Rome entitled $a b$ urbe condita libri (Books from the Foundation of the City) (section C), to draw attention to some general features of the lists of prodigies that are contained in books 21-45 (section D.1), to consider the crucial question of Livy's source or sources for his prodigial material (section D.2) and, lastly, to broach the question of its completeness or otherwise (section D.3).

## B. The Historian

On the basis of representations by the late chronographer Jerome, it is often stated that Livy, Titus Livius (no cognomen is recorded), was born in 59 BCE and died in 17 CE. Ogilvie ${ }^{1}$ argues that a lifespan of 64 BCE to 12 CE is more likely. The latter of the two revisionist dates would be ruled out if we could trust a note in manuscripts of the Periochae, ancient summaries of each book of Livy's history, to the effect that book 121 was published by the author after Augustus' death, which took place in 14 CE. In the absence of any direct counterindication, the epitomator's statement is to be accorded provisional belief.

Livy's birthplace was Patavium (modern Padua), in the period of Augustus an important and flourishing cry in the north of Italy. The rhetorician Quintilian, who supplies this information, ${ }^{2}$ goes on to note that C . Asinius Pollio, one of Livy's contemporaries and a fellow historian, mocked his Patavinitas, his Paduanity. Exactly what Pollio had in mind is unclear, though attempts have been made to reach some conclusion. ${ }^{3}$

Patavium was possessed of a strict sense of morality, ${ }^{4}$ and his parents and

[^120]grandparents were likely to have taught the young Titus Livius the ways and beliefs with which they were totally familiar and to which they were firmly committer. Only when he came to Rome would he have been exposed to the indifference to the traditional Roman gods and ancestral ways which, to judge froni int opinions expressed opeinly or obliquely in his writing, apparently offended his great and strong sense of morality. He was scornful of the abandonment and rejection of the old ways for new non-Roman philosophical systems and doggedly continued to record particulars connected to the ancient religion, berating his readers for their faithlessness to the forms that had made Rome great:
> haec, etsi omnis divini humanique moris memoria abolevit nova peregrinaque omnia priscis ac patriis praeferendo, haud ab re duxi cerbis quoque ipsis, ut tradita nuncupataque sunt, referre (these particulars, even though the memory of every religious and secular usage has been wiped out by men's preference of the new and outlandish to the ancient and homebred, I had thought it not foreign to my purpose to repeat, and in the very words in which they were formulated and handed down). ${ }^{5}$

Livy's gravestone survives. ${ }^{6}$ We learn from it that his wife was Cassia Prima and that there were two sons. Either before or after his marriage Livy settled in Rome, where, clearly, he came to have an amicable relationship with Rome's first emperor, Augustus ( $31 \mathrm{BCE}-14 \mathrm{CE}$ ). ${ }^{7}$ His closeness to the imperial court is certified
(his maternal grandmother, Serrano Procula, comes from the town of Patavium, whose reputation you know; but Serrana is a model of propriety even to the Patavians).

MARTIAL, 11,16.7-8, also makes a remark about Patavium and its proverbial morality: ti quoque nequitias nostri lususque libelli
uda, puella, leges, sis Patavina licet
(You also, my girl, will not be dry as you read the naughty jests of my little book, though you come from Patavium).
${ }^{5}$ Livy, 8,11.1.
${ }^{6}$ See H. Dessau, Inscriptiones Latinae Selectae (ILS), Berlin 1892-1916, no. 2919.
${ }^{7}$ Tacitus, Annals 4,34.
by his being in a position to encourage the future emperor Claudius to write history. ${ }^{8}$ Proximity to Augustus dia not compromise Livy's independence of judgement and expression. After noting the emperor's own self-interested, propagandist account of an achievement of A. Cornelius Cossus, a legendary hero of Rome's past, he went on to present his own version. ${ }^{9}$ Again, the motivation for the reduction of the number of senators attributed to Tarquinius Superbus by Livy ${ }^{10}$ could tacitly reflect the widespread, negative view, shared by the historian, of a similar act by the princeps when, in 29 BCE , he reduced the size of the Senate by one hundred and ninety men. ${ }^{11}$ An equally great historian of Rome, Tacitus (c. 56-120 CE), who was sensitive about such matters, duly praised Livy's concern for candour and truth. ${ }^{12}$

The provenance of Livy's gravestone, mentioned above, indicates that the historian died at Padua, not at Rome. While his departure back north may reflect no more than an old man's desire for a quieter environment and a return to the place of his childhood, it is possible, too, that Livy found the political and cultural climate

[^121]under Tiberius, who became emperor in 14 CE after Augustus' death, less compatible and comfortable than that of the reign of his predecessor.

## C. The History

At the time of his death, Livy had written 142 books of his ab urbe condita libri which covered the history of Rome from foundation to 9 BCE. Although some books are shorter than others, variations in length are not enormous. The sheer magnitude of Livy's enterprise can be gauged from the fact that the Loeb Classical Library English translation of books 21 and 22 requires 195 pages. Only books 1-10 and 21-45 are extant and portions of 41 and 43-45 are missing due to loss of leaves of the sole manuscript in which books 41-45 are preserved. A conspectus of contents of the last books is found in the Periochae, summaries, alluded to in the previous section. As mentioned in the first chapter, an epitome of much of Livy's missing narrative is provided by the History Against The Pagans, composed by the Christian writer, Orosius, in the fifth century CE. Orosius rilays a few prodigy lists for the periods covered by books 11-120 and 46 onwards respectively. Many others belonging to the years from 166 BCE onwards come down to us, as again pointed out in the first chapter, in what remains of a fourth century CE collection of prodigies by Julius Obsequens. Even if Obsequens' work had still existed in its entirety, it is doubtful whether all the Livian lists beyond 167 BCE would be in our possession. Material culled by Obsequens overlays the surviving Livian books 37-45 and comparison reveals that the excerpter was either careless, selective or both.

Books 1-10 of Livy's history deal with the period from Rome's foundation until 292 BCE, with much of the earlier part of the narrative reflecting legend rather than reality. The prodigy lists contained are few and far between and there are some who
have queried, wrongly in my opinion, their authenticity. ${ }^{13}$ Books 21-45 cover the period 218-167 inclusive with prodigy lists now commanding a high profile. The structure of Livy's history is annalistic throughout with the annual module being the Roman consular year.

Indications in the text ${ }^{14}$ show that books 1-5 were completed between 27 and 25 BCE. As already indicated, the emperor Augustus was dead when Livy published book 121. Given composition of book 6-121, 116 books in all, over the four decades from 25 BCE to 14 CE , Livy's rate of composition would have been close to a remarkable three books in a year. Such speed may or may not have bearing upon the scrupulousness of Livy's research and the breadth of his source material.

Since the present work is not concerned with history or history writing per se, it is inappropriate to dwell at great length on Livy's style, strengths and weaknesses in his narrative, and his philosophy of history. Suffice it to say, in the first place, that many criticisms of all sorts have been levelled at Livy, some of them justly, and some of them not so justly. One class of gaffs in his work relates to military matters. A particularly amusing example, attributed by Walsh to carelessness, appears at 38,7.10 where Livy has apparently mistranslated Polybius' $\theta v \rho \in o u ́ \varsigma$ (shields) as $\theta \dot{v} \rho \alpha \varsigma$ (doors) and sees nothing incongruous in the image of soldiers blocking tunnels with doors! Walsh accuses him of showing his 'civilian's mind'. At another level, Livy has attracted criticism for detrimental obsession with Roman virtues, gravitas in

[^122]particular. ${ }^{16}$ Hence an arguably regrettable excision of much of the humour reflected, for example, in Polybius' account of the interactions between Flamininus and Philip ${ }^{17}$, and Piso's portrayal of the reaction of the curule aedile, Cn. Flavius, to the conduct of the nobles. ${ }^{18}$ As a consequence of Livy's diagnosis that gravitas, not levitas, is the appropriate companion of dignitas, Romans tend to emerge in his work by and large as . a rather dour and humourless crew. To the Romans of old, the virtues dignitas, pietas, fides, disciplina, clementia, virtus and pudicitia are routinely ascribed. Their negative counterparts, levitas, impietas, ambitio, luxuria, avaritia, libido, are attributed correspondingly to Rome's enemies and it is only when Livy's narrative approaches his own time that such baneful traits begin to be reflected in the Roman character too. ${ }^{19}$ Such distortion of truth (if one can use such a word as 'truth' in a context where little is really known) is a clear contrivance on Livy's part, not done subconsciously, but deliberately, to promote the ideal and resurrect, as it were, the mos maiorum, to emphasize to his readers those qualities that, to Livy's mind, had made Rome what she Wei. ${ }^{20}$

[^123]Overall, to go on by sharpening the focus on ethos and leitmotifs, Livy's history is profoundly didactic, presenting moral lessons through description of historical acts and contrasting the greatness that was early Rome with the aimlessness and dissolution of the late republic. His despair of what Romans had become finds a suitable mouthpiece in the aged and doomed Hannibal, poisoned in 183 BCE:
"Liberemus" inquit "diuturna cura populum Romanum, quando mortem senis exspectare longum censent. nec magnam nec memorabilem ex inerni proditoque Flamininus victoria, fecil. mores quidem populi Romani quantum mutaverint, vel hic dies argumento erit. horum patres Pyrrho regi, hosti armato, exercitum in Italia habenti ut a veneno caveret praefixerunt: hi legatum consularem, qui auctor esset Prusiae per scelus occidendi hospitis, miserunt." ("Let us," he said, "relieve the Roman people of their long anxiety, since they find it tedious to wait for the death of an old man. Neither magnificent nor memorable will be the victory which Flamininus will win over a man unarmed and betrayed. How much the manners of the Roman people have changed, this day in truth will prove. Their fathers sent word to King Pyrrhus, an enemy in arms, commanding an army in Italy, warning him to beware of poison: these Romans have sent an ambassador of consular rank to urge upon Prusias the crime of murdering his guest. " ${ }^{21}$

Of greatest importance is the telling line mores quidem populi Romani Quantum mutaverint, vel hic dies argumento erit. Basic morality had been abandoned for the sake of expediency. Rejection of the mos maiorum had resulted in a character traditionally despised by the Romans and attributed only to their enemies or to barbarians, but now this unworthy character was possessed by the Romans themselves and it was not to their credit. A change, a reversion to the old ways, was required, but

[^124]to achieve this, someone had to show the Romans what they had been and what they had become. As Jimenez Delgado ${ }^{22}$ puts it,

En todas partes se revela la rectitud e intención moralizadora de Livio, quien, con nobleza y rectitud, trata de hacer revivir en su obra el ambiente de intensa religiosidad que es una de las caracteristicas de la Roma Antigua, frente a la indiferencia religiosa y al escepticismo práctico de su época, que junto con el afán de riquezas y placeres, iba minando los cimientos del Imperio.

Livy's hope was to demonstrate that a return to moral rectitude would bring about a return to Rome's former glory. The key to a better, brighter, more moral Rome was Augustus. The decline of Roman morality called for strong leadership which would advocate and implement a return to old and largely neglected traditions. Within such a programme a revival of religion was palpably considered by Livy to be a prime catalyst towards regeneration. ${ }^{23}$ Accordingly, Livy was undoubtedly in favour of Augustus' religious policy.

During the emperor's reign, more than eighty temples were reputedly restored. ${ }^{24}$ That there were so many in need of restoration was evidence of a neglect

[^125]of the gods that, in the emperor's view, could not but be to Rome's detriment. As Galinsky emphasises, the gods protected the Roman community. The survival of that community depended in turn on correct moral behaviour. Those things that had been devoted to the gods - cults, rites, buildings - were calculated to enhance that behaviour. Dilapidation and negligence had the reverse effect. ${ }^{25}$

Significantly, Horace's Ode 3,6.1-8 begins:
delicta maiorum immeritus lues
Romane, donec templa refeceris, aedesque labentes deorum et foeda nigro simulacra fumo.
dis te minorem quod geris, imperas; hinc omne principium; huc refer exitum, di multa neglecti dederunt Hesperiae mala luctuosae.
(Your fathers' sins, O Roman, you, though guilttess, shall expiate, till you do restore the crumbling temples and shrines of the gods and their statues soiled with grimy smoke. It is by holding yourself the servant of the gods that you do rule; with them all things begin; to them ascribe the outcome. Outraged, they have visited unnumbered woes on sorrowing Hesperia.)

Was Augustus trying to restore what he saw as a lost balance, to make things right for the gods so that they would in turn make things right for Rome and her citizens who had suffered so much during the civil wars that ended the republic?

The practice of monitoring the gods' wills during the last century of the republic, particularly its last decades, had gradually falien into near desuetude; there are fewer and fewer prodigies recorded, with the exception of a brief revival after the assassination of Julius Caesar. Subsequent to that, until the reign of Claudius,

[^126]prodigies recorded focussed on the Imperial family rather than on the Roman State. ${ }^{26}$ It has been suggested that prodigies, contrary to expectation, were not revived by Augustus because, towards the end of the republic, some of the few noted had been flagrantly exploited for political purposes, ${ }^{27}$ and that Augustus was concerned primarily with those institutions that had "a commitment to traditional piety while also providing the opportunity for ongoing adaptation". ${ }^{28}$ This particular policy appears to have had no restricting influence on Livy for whom the prodigies of two centuries earlier were an important and integral part of the religious and social life of the Romans. As such they necessarily claimed a place in his history. It has been claimed ${ }^{29}$ that Livian scepticism with respect to prodigia is certified by use of oratio obliqua and it is true that he often appears to excuse the prodigy lists and fantastic stories with the words dicitur or nuntiatum est. Scepticism may have not in fact have been complete but rather feigned on occasion by Livy in order to remove himself from the path of derision. It was not necessarily solely for the purpose of disavowing responsibility for the content of the prodigy lists that Livy adopted this convention. His treatment could be viewed as an expression of unwillingness to affirm that such events actually occurred, given a contemporary sceptical climate à propos of religion in

[^127]general and prodigies in particular. Levene ${ }^{30}$ avers that "through oratio obliqua [Livy] indicates his scepticism without having to advertise it explicitly on every occasion," but any writer who included material in his magnus opus simply because quaedam religio inclined him not to reject what prudentissimi viri of old had considered worthy of public regard must surely have been far indeed from a radical sceptic.

Religion, I believe it close to the truth to say, was above all Livy's concern. How else can be explained his comment at $9,30.5$ that he would have ignored a particular incident but for its religious bearing (..ni ad religionem visa esset pertinere)? There is no parallel comment in relation to politics, treaties, health, the Senate, agricultural matters, or anything else. For Livy the history of Rome was the framework around which to build the history of Roman religion. In view of the overwhelming and (perhaps) inflated importance of religion in Livy's work, it is not at all plausible to propose that Livy was mendacious and/or manipulative in his treatment of any of its aspects.

[^128]
## D. The Prodigy Lists

## 1. General Features

Almost invariably in books 21-45, Livy's account of a consular year commences with a record of official transactions, by and large a matter of routine, that preceded the departure of the consuls for their provinces. The record begins with a direct statement to the effect that consuls $x$ and $y$ entered office and goes on to include the assignment of consular provinces and of duties to other curule magistrates, the distribution of armies, the holding of military levies, attention to other pressing secular matters and performance of important religious duties. Included amongst these are the celebration of the Latin games and, more often than not, the processing and expiation of prodigies.

Where prodigy lists are thus incorporated, it is usually made clear that the prodigies concerned were processed almost immediately upon the consuls' taking office. It ought to follow that they had been reported during the previous consular year with the reports aggregated for consideration by the new consuls. Livy's account of the inception of C206 provides one of many examples. The consuls L. Veturius Philo and Q. Caecilius Metellus receive their provinces and the praetors are assigned their duties. Existing armies are distributed and new forces enrolled. A list of prodigia follows ( $28,10.8-11.7$ ) together with a brief account of the modes of expiation.

On comparatively rare occasions we encounter prodigy lists recorded elsewhere than at the beginning of a year and associated with a particular season. At 21,62.1-5,
towards the end of Livy's account of the events of C218, we find a list of prodigies said to have occurred ea hieme, that winter. It will emerge later that Livy probably included a list of prodigies processed at the beginning of C218 in the lost book 20. Another consular year for which there are two prodigy lists, one at the year's beginning and one later, although not in these cases associated with a season, is C216, in which the battle of Cannae was fought (22,35.7-8 and 22,57.2-4). At 27,4.11-14, in Livy's narrative of the events of C211, prodigies are listed which are said to have occurred aestate, during summer. In the case of this year there is no up-front list of prodigia expiated in the wake of the consuls entering upon office.

In addition to the blocks of prodigies placed at the beginning of a consular year and those, whether or not seasonally associated, that have a clear context within Livy's narrative, there are chronologically vague lists of prodigies said simply to have occurred eodem or eo anno, in the same or in that year. Examples are the list, close to the end of Livy's account of C211, at 26,23.4-5 (eodem anno) and that, in his narrative of the events of C181, at 40,19.1-3 (eo anno).

## 2. The source of Livy's prodigy lists

The following passages provide the core primary material bearing on this major question.

1. Cicero, de oratore 2,52
erat enim historia nihil aliud nisi annalium confectio, cuius rei, memoriaeque publicae retinendae causa, ab initio rerum Romanarum usque aá $P$. Mucium pontificem maximum, res omnes singulorum annorum mandabat litteris pontifex maximus, referebatque in album, et proponebat tabulat domi, potestas ut esset populo cognescendi, hique etiam nunc Ainnales maximi nominantur.

History was once nothing more than a compilation of year by year events, for which reason, and for the purpose of preserving the memory of public transactions, from the beginning of Roman affairs until the time when P. Mucius was pontifex maximus, each successive pontifex maximus committed to writing all the events of each particular year of his period of office and reproduced them on the whitened surface of a board that he set up on from of his residence so that the whole populace might be able to have access to their content. The records concerned are called the Annales Maximi.
2. Cicero, de legibus 1,2.6.
...annales pontificum maximorum, quibus nihil potest esse ieiunis.
...the annales of the pontifices maximi, than which nothing could be more stylistically unornamented. ${ }^{31}$

[^129]3. Servius, Commentary on Vergil's Aeneid ${ }^{32} 1,373$.
ita autem annales confiscebantur; tabulam dealbatam quotannis pontifex maximus habuit, in qua praescriptis consulum nominibus et aliorum magistratuum digna memoratu notare consueverat domi militiaeque terra marique gesta per singulos dies, cuius diligentiae annuos commentarios in octaginta libros veteres retulerunt eosque a pontoficibus maximus a quibus fiebant, Annales Maximus appellarunt.

The year by year records of events were progressively collected in the following manner. Every year the pontifex maximus had a whitened board headed with the names of the consuls and other magistrates. On this he was accustomed to record, day by day, official transactions at home and in theatres of war by land and by sea. The annual inventories of events put together with such application were collected by our forefathers into 80 books. From the pontifices maximi who were responsible for the material they contained, these vere called by their compilers the Annales Maximi.
4. Aulus Gellius, Noctes Atticae ${ }^{33}$ 2,28 .
verba Catonis ex Originum quarto haec sunt: non lubet scribere quod in tabula apud pontificem maximum est, quotiens annona cura, quotiens lunae aut solis lumine caligo aut quid obstiterit.

Cato writes as follows in the fourth books of his Origines: "I have no interest in writing down what is recorded on the board of the pontifex maximus; for example, how often the price of grain was high, or how often vapour or whatever obstructed the light of the moon of the sun."
5. Livy, 6,1.1-3.
quae ab condita urbe Roma ad captam eamden Romani... gessere... quinque libris exposui, res cum vetustate nimia obscuras... tum quod parvae et rarae per eadem tempora litterae fuere... et quod, etiamsi quae in commentariis pontificum aliisque publicis privatisque erant monumentis, incensa urbe pleraeque interiere.

[^130]I have set out in five books the history of the Romans from their city's foundation to the capture of the same <by the Gauls>... The matters concerned are obscure not only by reason of their great distance in time... but also because in those days of old commitment to writing was short and intermittent... and because, too, even such records as existed in the commentaries of the pontifices maximi and in other public and private documents perished for the most part in the burning of the city.
6. Livy, $43,1 \div$ 1-2.
non sum nescius ab eadem neglegentia qua nihil deos portendere vulgo nunc credunt, neque nuntiari admodum uila prodigia in publicum neque in annales referri. ceterum et mihi vetustas res scribenti nescio quo pacto antiques fit animus et quaedam religio tenet, quae illi prudentissimi viri publice suscipienda censuerint, ea pro indignis habere. quae in meos annales referam.

I am not oblivious to the fact that as a consequence of the same negligence that leaus people by and large in these times to believe that the gods foreshadow nothing, no prodigia are now brought to public notice and that none is recorded in contemporary annals. However, as I write of what happened in the old time past, in some strange manner my mind takes on an ancient mould and simultaneously a kind of religious awe holds me back from considering what those most experienced men of earlier times deemed a matter of public concern unworthy to be included in my own annals.

A vast amount, much of it more confusing than illuminating, has been written
about the chronicling activities of the pontifices and the Annales Maximi. ${ }^{34}$ For all the

[^131]iortuous complexity of scholarly interpretation and argument, the indications of the first three passages above seem fairly clear. Well before the capture of Rome by the Gauls, somewhere in the vicinity of 390 BCE , the pontifices maximi ensured commitment to a permanent written record a concise, unadorned encapsulation of all events and transacticas of public significance that occurred with each consular year during their terms of office. In addition, as they unfolded within each consular year, the same events and transactions were inscribed day by day on a whitened board, recycled annually, ${ }^{35}$ on public display in front of the chief pontifex' residence.

Such activity on the part of the pontifices maximi came to an end during the pontificate of $P$. Mucius Scaevola, plebeian tribune in 141 BCE and consul in $133 .{ }^{36}$ Scaevola was certainly pontifex maximus by $123^{37}$ but unfortunately we do not know exactly when he obtained the office, or the year of his death. His predecessor, P. $\square$ icinius Crassus Mucianus entered office in $132^{38}$ and his successor L. Caecilius

[^132]Metellus Delmaticus died in $114 .^{39}$ As a consequence of Scaevola's initiative, the keeping of detailed public records passed into different hands. It can hardly have been abandoned. ${ }^{40}$ The authorities who took over from the pontifical college are likely to have been civil rather than religious.

Eventually collation and publication of the catalogues of annual events in the pontifical archives was set in motion. The 80 books of records that eventually emerged were collectively labelled Annales Maximi after the religious figures responsible for their compilation. Completion of the project must have been earlier than 55 BCE , the year in which Cicero finished his de oratore. ${ }^{41}$

From the Origines of Marcus Porcius Cato the Elder, commenced in 168 BCE and not yet complete at the time of its author's death in $149,{ }^{42}$ we learn that the whitened board set up each year by the pontifices maximi and hence the permanent catalogues of the same transactions stored in the pontifical archives contained reports of obscuration of the moon and sun. By informed circles in Cato's day, eclipses were no longer regarded as prodigies. ${ }^{43}$ If they were recorded nonetheless, it can be taken for granted that tie pontifical chroniclers did not fail to list all unusual phenomena that

[^133]were indisputably prodigial. ${ }^{44}$ Such attention would be natural given that the pontifex maximus above all was responsible for maintenance of the pax aeorum and that he and the rest of the pontifical college were the ultimate overseers of the expiation of prodigies. By recording the manner of expiation of each prodigy in addition to the prodigy itself, the pontifices were able to ensure possession by their successors of future generations of an indispensable guide to handling future similar occurrences.

The common view, almost certainly correct, ${ }^{45}$ is that the Annales Maximi were the ultimate source for lists of prodigies and their expiations until some time in the pontificate of Scaevola. For the period prior to the burning by the Gauls of most of Rome's buildings and their contents, the pontifical record overall was partial and disjoined due to the fire's ravages. Thereafter, for over 250 consular years, which include $\mathrm{C} 218-\mathrm{C} 167$, it will have been complete.

[^134]The penultimate passage set out above shows that Livy was familiar with the Annales Maximi. The question is did he make direct use of this definitive source in putting together his list of prodigies. The archaic language in which so many of the prodigia that he records are couched is compatible with his having done so, but obviously not probative. ${ }^{46}$ Livy could have drawn on an intermediate annalist who reproduced the prodigial content of the Annales Maximi verbatim.

The final passage reveals an attitude on Livy's part towards prodigia that comes across as close to reverential but is compatible with recognition that some reports were matters of delusions of eyes and ears accepted as real (ludibria oculorum auriumque credita pro veris; $24,44.8$ ) and belief that religious fears generated in times of crisis were capable of driving up the number of prodigies announced. ${ }^{47}$ On occasion Livy found it difficult to judge whether a report or a cluster of reports reflected contagious religious hysteria or something more profound. ${ }^{48}$ Livy's seriousness about prodigia is again consistent with his going to the most authentic source for information, but still not probative. While the absence of any decisive counter-indication to direct Livian deployment of the Annales Maximi is significant, we are still left short of absolute proof of first hand consultation. Although, regrettably, such proof is unlikely to be forthcoming, the balance of probability, in my view, inclines more than weakly in

[^135]favour of Livy's having drawn his lists of prodigies from the fountainhead, rather than having trustful recourse to the second-hand reportage of L. Calpurnius Piso, C. Licinius Crassus, Valerius Antias, ${ }^{49}$ or whomever. The onus of demonstration is very much on those who would maintain the opposite.

## 3. The completeness of Livy's prodigy lists

Assuming that Livy drew his lists of prodigia from the Annales Maximi, are they exhaustive or do they reflect some kind of process of selection either regular or occasional? This is an important question for a scientist seeking, for example, to establish variations in solar activity on the basis of prodigial reports involving observation of the aurora borealis. Unfortunately it is not easy to give a confident answer.

At 21,62.1-5, Livy lists the locales in which prodigies associated with the winter of C218 occur in the order Rome, Lanuvium, Amiternum, Picenum, Caere and Gaul. It is unlikely, if not completely out of the questions that the compiler of the pontifical record concerned was responsible for the neat progression from Rome to remote Gaul. At 22,1.1-12, the order of the locales of the prodigies processed at the beginning of C217 is Sicily, Sardinia, Praeneste, Arpi, Capena, Antium, Falerii, Rome, Capua.

[^136]Here the basic geographical procession is in the opposite direction, from periphery to Rome, but there is one exception, Capua, which appears last. Capua was soon to shift from its allegiance to Rome and become the base of Hannibal's operations. Such palpable contrivance is even less likely to be a feature of the pontifical chronicles reproduced in the stylistically unadorned Annales Maximi.

From the fact that Livy was capable of reordering prodigial material culled from the Annales to achieve geographic coherence or for dramatic reasons, we cannot immediately jump to the conclusion that his redactory activities might have included omission of items incompatible with the message of a part or the whole of his work. The seriousness about prodigies noted in the previous section ought to have militated against leaving out any significant prodigies and Livy's inclusion in the prodigy list of C217 two items that he goes out of his, way to describe as trivial ${ }^{50}$ could be regarded as prima facie evidence in favour of comprehensiveness.

Some kind of objective means of testing Livy's completeness is clearly desirable. An obvious procedure is to compare Livian lists of prodigies for particular years with single items or groups for the same years attested by other writers. Does Livy include prodigia assigned to this or that consular year by Pliny or Cassius Dio, for example, or are they missing from his clusters? To a limited extent such comparison is possible. The results emerge in Part 3 section 2. By and large, they are compatible with the conclusion that Livy was close to exhaustive.

[^137]
## Chapter Six

The prodigies and their expiations: text, translations and comments

## Preface

For each consular year, the same mode of presentation is adopted. First, the Livian prodigy list or lists together with details of expiatory measures are set out in the original Latin with each successive prodigy allocated a number. An English translation follows. If there are directly derivative prodigial lists for the year concerned in Julius Obsequens, Orosius, or both, these appear next again in both the original Latin and English translation. Last come comments relating to both the Livian primary versions and the derivatives. There are divided into three groups. The first group relates to context within that consular year and other general circumstances. The second group comprises annotations in respect of each prodigium with the number preceding each item representing that assigned within the text sub-section. The third group of notes, kept to a minimum, relates to expiations.

## Consuls: P. Cornelius Scipio, Ti. Sempronius Longus.

LIVY, 21,62.1-11:
Ronae aut circa urbem multa ea hieme prodigia facta aut, quod evenire solet motis semel in religionem animis, multa nuntiata et temere credita sunt, in quis

1. ingenuum infantem semestrem in foro holitorio triumphum clamasse
2. et in foro boario bovem in tertiam contignationem sua sponte escendisse atque inde tumultu habitatorum territum sese deiecisse
3. et navium speciem de caelo adfulsisse
4. et aedem Spei, quae est in foro holitorio, fulmine ictam
5. et Lanuvi hastam se comnovisse
6. et corvum in aedem lunonis devolasse atque in ipso pulvinario consedisse
7. et in agro Amiternino multis locis hominum specie procul candida veste visos nec cum ullo [illos] congressos
8. et in Piceno lapidibus pluvisse
9. et Caere sortes extenuatas
10. et in Gallia lupum vigili gladium ex vagina raptum abstulisse
ob cetera prodigia libros adire decemviri iussi; quod autem lapidibus pluvisset in Piceno, novendiale sacrum edictum, et subinde aliis procurandis prope tota civitas operata fuit. iam primum omnium urbs lustrata est hostiaeque maiores quibus editum est dis caesae, et donum ex auri pondo quadraginta Lanuvium lunoni portatum est, et signum aeneum matronae Iunoni in Aventino dedicaverunt, et lectisternium Caere, ubi sortes adtenuatae erant, imperatum et suppicatio Fortunae in Algido; Romae quoque et lectisternium Iuventati et supplicatio ad aedem Herculis nominatim, deinde universo populo circa omnia pulvinaria indicta, et Genio maiores hostiae caesae quinque, et C. Atilius Serranus praetor vota suscipere iussus, si in decem annos res publica eodem stetisset statu. haec procurata votaque ex libris Sibyllinis magna ex parte levaverant religione animos.

## Translation:

At Rome or around the city, many prodigies occurred that winter, or as ustally happens when men's minds are once turned to religion, many were reported and too easily credited, among which

1. a free-born infant of six months had cried "Triumph!" in the Forum Holitorium
2. in the Forum Boarium an ox had climbed, of it: : wn accord, to the third storey of a house and then, terrified by the outcry of the occupants, nad thrown itself down
3. the semblance of ships shone forth from the sky
4. the temple of Hope, which is in the Forum Holitorium, was struck by a lightning bolt
5. at Lanuvium the spear had moved itself
6. a raven had flown down into the temple of Juno and sat on her very couch
7. in the territory of Amiternum, in many places, entities had been seen some distance off with the appearance of humans with white garments but [they] did not meet with anybody
8. in the Picentine country it had rained with stones
9. at Caere the lots had shrunk
10. in Gaul in the case of a sentry, a wolf had seized his sword from its sheath and carried it off

On account of the other prodigies the Xviri were ordered to consult the books; on the grounds that it had rained with stones in Picenum, a novendiale was decreed; and immediately almost the whole citizen body was occupied in expiating the other prodigies. First of all the city was cleansed and full-grown victims were slain for the gods to whom it was prescribed, a gift of 40 pounds of gold was carried to Lanuvium for Juno and on the Aventine the matrons dedicated a bronze statue to Juno. A lectisternium was ordered at Caere were the lots shrank, and a supplicatio at Algidus. At Rome again both a lectisternium for Jiventus and supplicatio at the temple of Hercules were specifically decreed. Then, for the whole population, another supplicatio was ordered around all pulvinaria. To the Genius five full-grown victims were slain, and the praetor C. Atilius Serranus was ordered to undertake a vow in return for the republic remaining in the same condition for ten years. The carrying out of these expiations and vows on the basis of the Sibylline books succeeded in relieving minds from religious awe for the most part.

## Comments:

## A. Context

Normally accumulated prodigial reports were processed only once annually, at the consular year's beginning as soon as feasible prior to the consuls' departure for their provinces. On occasion, in times of crisis or other special circumstances, prodigies received attention at other times of year. The reason for fast-track processing late in C218 of prodigia that occurred in or close to winter was no doubt the fear inspired at Rome by the spectre of Hannibal.

Levene (1993), p. 38, has suggested for di qmatic purposes (in particular to emphasize the impiety of Caius Flaminius), Livy displaced to the end of C218 prodigies actuaily processed at the consular year's beginning. This speculation, conveniently facilitated by the loss of Livy's account of events at the beginning of C218, can be safely dismissed.

## B. Prodigies

1. Generally for a free-born child to cry out "Trimpla" would portend a notable Roman military success on a civic level. Given, however, the fourth prodigy, a Hannibalic victory rather than a Roman one might be felt to be signifiec on this particular occasion.
2. According to Cassius Dio/Zonaras 8,22 , the bull's ascent and fall, which resulted in its death, took place $\dot{\varepsilon} \nu \tau \hat{\eta} \tau \hat{\omega} v$ ' $\mathrm{P} \omega \mu \alpha i \omega \beta$ r $\pi \alpha \nu \eta \gamma \dot{\nu} \rho \epsilon \iota$. Livy has omitted some
details from the account in the Annales Maximi (see further, the following section). The Ludi Romani, in honour of Jupiter Optimus Maximus, were celebrated in the first half of September. Either Livy's hieme is used in a rather broad sense or the season specified is linked more closely with the expiation of the prodigies concerned than their actual occurrence.

This prodigium occurred in the Forum Boarium, a market place around which was centred 'he worship of Hercules, the patron of trade, and a demi-god who would bring financial and smmercial success to his devotees. Since a greater part of the early Romans' wealth was in oxen and sheep, it is natural to find him in this busy marketplace [WARDE Fowler (1922), p. 231]. Such a prodigium then could be an indication of an imminent financial or commercial crisis. In the present instance, however, other connotations are likely to have been uppermost in Roman minds. Hercules figured as Victor and Triumphalis and in the Circus Maximus a temple was consccrated to him as Invictus [SMITH (1873), p. 813], all of which stress his martial aspect. It is plausible to infer that this particular prodigium indicated that some military calamity was impending. Expiatory supplication was made at a temple of Hercules, possibly the oldest and most important one, the Magna Ara Herculis, but this was not considered sufficient in view of the fear inspired by such a singular prodigy and further rites were ordered. This leads then to the hypothesis ${ }^{2} \therefore$ prodigium was observed after the defeats of C218 at the rivers Ticinus and Trebia, and the Roman people were seeking desprately to avert any similar occurrences. If this were the case, then it also supports the thesis that this prodigy list was the second one to be provided by Livy for this year.

In C191, a similar occurrence does not appear to have been accorded the status of a prodigy; war hysteria, association with the Ludi Romani, together with the locale will have contributed to the different treatment on this occasion.
3. Unfortunately the prodigial records very rarely indicate whether phenomena were witness during day or night. Had this prodigium been observed at night, it could quite conce:vably have been an aurorae, some of which look remarkably like the sails of a ship; but on the other hand, had it occurred during the day, it might possibly have been a mirage. As Campbell (1988), p. 4, explains, "a mirage is an atmospheric phenomenon caused by the
 almost total reflection... of light at a boundary between air at different temperatures (a thermocline). In effect the thermocline acts as a mirror and will reflect whatever is in the line of sight at the right angle. ... More rarely a thermocline will form in the air above us when a temperature inversion occurs. The result can be mirage images in the air."
4. The Roman belief that lightning foretold the future is well-reflected at Seneca,

QNat. 2,32.2:
hoc inter nos et Tuscos, quibus summa est fulgurum persequendorum scientia, ivterest: nos putamus, quia nubes collisae sunt, fulmina emitti; ipsi existimant nubes collidi ut fulmina emittantur; nam, cum omnia ad deum referent, in ea opinione sunt tamquam non, quia facta sunt, significent, sed quia significatura sunt, fiant. (This is the difference between us and the Etruscans, who have consummate skill in interpreting lightning: we think that because clouds collide
lightning is emitted; they believe that clouds collide in order that lightning may be emitted. Since they attribute everything to divine agency they are of the opinion that things do not reveal the future because they have occurred, but that they occur because they are meant to reveal the future.)

It was believed by the Romans that lightning was sent by the gods, primarily by Jupiter, and that it portended some action, either for the benefit or ruin of private individuals or the public State, dependent on when, where, and what it struck. It was a sign of the gods' benevolence or ire.
5. The MSS all read hostiam, victim. Alteration to hastam, spear, was proposed by Sabellicus on the grounds that whereas a moving victim would be unique, prodigial moving spears are reïatively commonplace (see, for example, Livy, 24,10.10 and 40,19.2).

The temple and grove of Juno Sospita were important to the Roman people because, after their conquest of Lanuvium, it was decreed that these places should be common to both peoples [Douglas (1913), p. 61]. Many of the reported prodigia from Lanuvium are related to these sacred areas. If hostiam is read then it could be presumed that the victim was either not dead or that this was a case of post mortem convulsions. On the other hand, if hastam is chosen then wind blowing through the temple, or minor earth tremors, or even something like the brushing against the spears by small animals such as mice could be responsible for the incident.
6. From earliest times, the ancient Romans looked to the sky with a view to divining their future. It was believed that the will of the gods was to be read in the movements of the birds, which flew close to the domain of the sky-gods. At Div. 1,28, Cicero
tells of this means of augury: nam ut nunc extis (quamquam id ipsum aliquanto minus quam olim), sic tum avibus magnae res impetriri solebant (for just as wday on important occasions we make use of entrails in divining (though even they are employed to a lesser extent than formerly), so in the past, resort was usually have to divination by means of birds).

Douglas (1913), p. 62, claims that, together with a serpent, Juno Sospita had a bird, perhaps a crow or raven, as an attribute. Only entry by the goddess' own bird would be worthy of note. Ravens are usually ominous. Pliny, N.H. 10,33, tells that:


#### Abstract

corvi in auspiciis soli videntur intellectum habere significationum suarum; nam cum Medi hospites occisi sunt, omnes a Peloponneso et Attica regione volaverunt. pessima corum significatio cum gluttiunt vocem velut strangulati. (Ravens seem to be the only birds that have an understanding of the meanings that they convey in auspices, for when the guests of Medus were murdered, all the ravens in the Peloponnese and Attica flew away. It is a specially bad omen when they gulp down their croak as if they were choking.)


7. This phenomenon must be an earth-based one. The words cum ullo congressos, imply that the apparitions were capable of meeting other people had they 'chosen' to do so. It is common for mirages to be seen on a hard flat surface, so this could therefore be an example of an inferior mirage [CAMPBELL, 1988].
8. A rain of stones is a relatively common item in the prodigy lists. In the view, derived viltimately from Aristotle, of Pliny the Elder (N.H. 2,104), stones could be caught up somehow by violent winds and then deposited in a solid shower. The most reasonable prima facie explanation from a modern perspective would be fallout from a disintegrating meteorite (see above, p. 36 for a recent occurrence at Mbale) which modern research shows as being more likely witnessed in the warmer months, between

April and mid-October, than the winter months [HuGHES, (1981), p. 270] and volcanic ejecta. Pliny the Younger's description (Epist. 6,16) of the 79 CE eruption of Vesuvius shows that possible volcanic origin of falling stones was taken for granted in imperial times. Presumably, volcanic bombardment from Etna, for example, was familiar in the republican period; however, volcanism has to be ruled out in the present case because there were no active volcanoes in Picenum in the third century bCE.

According to Livy, 1,31.1-4, the first purported occurrence of a rain of stones was during the reign of Tullus Hostilius. In the historian's own words:
nuntiatum regi patribusque est in monte Albano lapidibus pluvisse. quod cum credi vix posset, missis ad id visendum prodigium, in conspectu haud aliter quam cum grandinem venti glomeratam in terras agunt, crebri cecidere caelo lapides... Romanis quoque ab eodem prodigio novendiale sacrum publice susceptum est... mansit certe sollemne, ut quandoque idem prodigium nuntiaretur, feriae per novem dies agerentur. (It was reported to the king and senators that there had been a rain of stones on the Alban Mount. As this could scarce be credited, envoys were dispatched to examine the prodigy, and in their sight there fell from the sky, like hail-stones which the wind piles in drifts upon the ground, a shower of pebbles... The Romans also, in consequence of [this] portent, undertook an official nine days' observance... It remained a regular custom that whenever the same prodigy was reported, there should be a nine days' observance.)

An active volcano in the remote past, the Alban Mount had been inert for millennia prior to Rome's foundation.

The phenomenon described by Livy on the present occasion does not accord particularly well with a meteoric event. Overall, portentous rains of stone present formidable problems of identification.
9. The lots were small tablets of either wood or bronze. On these were written proverbial phrases, and one or two of them were ciawn for the purpose of seeking advice or guidance. They are associated with Caere, Praeneste, Falerii, and Patavium.

Their diminishing could be an indication of bad luck. There is a story at Pliny, N.H.

34,137, about a coin that grew and shrank:
Serviliorum familia habet trientem sacrum quotannis faciunt. quem ferunt alias crevisse, alias decrevisse videri et ex eo aut honorem aut deminutionem familiae significare. (The family of the Servilii has a holy coin to which every year they perform sacrifices with the greatest devotion and splendour; and they say that this coin seems to have on some occasions grown bigger and on other occasions smaller, and that thereby it portends either the advancement or the decadence of the family.)
10. An unlikely occurrence. It is tempting but not compulsory to envisage a sort of parable. The wolf was sacred to Mars, as evidence by Horace, Odes 1,17.9, who was the god of war; the soldier's sword was a weapon of war. This could then be a call to arms, Mars leading the way, or it could signal defeat, the weapon of war being stolen from the Romans through the agency of Mars himself.

Despite a positive attitude to prodigies, Livy concedes that some reflect credulity on the part of the observers.

In quis does not necessarily imply that the prodigies that Livy records are a selection from a larger number of items in the Annales Maximi. The real purport is more likely to be that the authorities of Rome were unwilling to accord prodigial status to many of the reports that were received.

## C. Expiations

novendiale: As already noted (C218, 8), suspension of all public business for nine days was involved. The inconvenience would be compounded by multiple showers of rain close in time since each occurrence had, strictly, to be expiated separately.

## Consuls: Cn. Servilius Geminus, C. Flaminius.

## I. LIVY, 22,1.1-20:

iam ver adpetebat; itaque Hannibal ex hibernis movit... per idem tempus Cn. Servilius consul Romae idibus Martiis magistratum iniit. ibi de re publica rettulisset, redintegrata in C. Flaminium invidia est... augebant metum prodigia ex pluribus simul locis nuntiata:

1. in Sicilia militibus aliquot spicula
2. in Sardinia autem in muro circumeunti vigilias equiti scipionem quem manu tenuerat arsisse
3. et litora crebris ignibus fulsisse
4. et scuta duo sanguine sudasse
5. et milites quosdam ictos fulminibus
6. et solis orbem minui visum
7. et Praeneste ardentes lapides caelo cecidisse
8. et Arpis parmas in caelo visas
9. pugnantemque cum lina solem
10. et Capenae duas interdiu lunas ortas
11. et aquas Caeretes sanguine mixtas fluxisse
12. fontemque ipsum Herculis cruentis manasse respersum maculis
13. in Antiati metentibus cruentas in corbem spicas cecidisse
14. et Faleriis caelum findi velut magno hiatu visum, quaque patuerit ingens lumen effulsisse
15. sortes sua sponte adtenuatas unamque excidisse ita scriptam: "Mavors telum suum concutit."
16. et per idem tempus Romae signum Martis Appia via ac simulacra luporum sudasse
17. et Capuae speciem caeli ardentis fuisse
18. lanaeque inter imbrem cadentis
inde minoribus etiam dictu prodigiis fides habita:
19. et gallinam in marem, gallum in feminam sese vertisse
his, sicut erant nuntiata, expositis auctoribusque in curiam introductis consul de religione patres consuluit. decreturn, ut ea prodigia partim maioribus hostiis partim lactentibus procurarentur et uti supplicatio per triduum ad omnia pulvinaria haberetur; cetera, cum decemviri libros inspecissent, ut ita fierent, quem ad modum cordi esse divis divinis <e> carminibus praefarentur. decemvirorum monitu decretum est, Iovi primum donum fulmen aureum pondo quinquaginta fieret, lunoni Minervaeque ex argento dona darentur, et Iunoni reginae in Aventino Iunonique Sospitae Lanuvii maioribus hostiis sacrificaretur, matronaeque pecunia conlata, quantum conferre cuique commodum esset, donum Iunoni reginae in Aventinum ferrent, lectisterniumque fieret, et ut libertinae et ipsae, unde Feroniae donum daretur,' pecuniam pro facultatibus suis conferrent. haec ubi facta, decemviri Ardeae in foro maioribus hostiis sacrificarunt. postremo Decembri iam mense ad aedem Saturni Romae immolatum est lectisterniumque imperatum - et eum lectum senatores straverunt - et convivium publicuim, ac per urbem Saturnalia diem ac noctem clamata, populusque eum diem festum habere ac servare in perpetuum iussus.

## Translation:

Now spring was approaching and so Hannibal moved out of his winter quarters... Around the same time on the Ides of March Cnaeus Servilius entered on his consulship at Rome. Upon his referring the state of the republic to the Senate, resentment against C. Flaminius was rekindled... Prodigies having been announced from rather many places at the same time increased fear:

1. in Sicily in the case of several soldiers javelins caught fire
2. in Sardinia, in the case of a cavalryman going the round of the patrol on the wall, the baton which he had been holding in his hand caught fire
3. and the shore shone with frequent fires
4. and two shields sweated with blood
5. and some soldiers were struck by a lightning bolt
6. and the orb of the sun was seen to be diminished
7. at Praeneste glowing stones had fallen from the sky
8. at Arpi shields had been seen in the sky
9. and the sun fighting with the moon
10. at Capena two moons rose during the day
11. the waters of Caere flowed mixed with blood
12. and the very spring of Hercules had flowed sprinkled with bloody flecks
13. in the Antiate territory bloody ears of corn fell into the baskets of the harvesters
14. at Falerii the sky was seen to be split as if with a great gaping and where ì opened up a huge light shone out
15. lots shrank of their own accord and one fell out written thus: "Mars shakes his spear."
16. around the same time at Rome the statue of Mars on the Appian Way and the images of the wolves sweated
17. at Capua there had been the appearance of a sky burning
18. and the appearance of wool falling amid a shower

And then trust was placed even in prodigies more trivial for telling:
19. some people's goats had been made woolly
20. and a hen had changed into a cock and a cock into a hen

And these having been spelled out as they had been announced and the authors having been introduced into the senate-house the consul consulted the fathers concerning performance of rites. It was decreed that these prodigies be expiated partly with full-grown, partly with suckling victims, and that supplicatio for three days be had at all pulvinaria; in addition, when the Xviri should have consulted the books, it was decreed that such rites should take place as they should prescribe on the basis of the divine verses to be pleasing to the gods. On the advice of the Xviri it was decreed to Jupiter first of all there should be a gift in the silape of a golden thunderbolt fifty pounds in weight, it was decreed to Juno and Minerva gifts of silver should be given; that for Juno Regina on the Aventine and Juno Sospita at Lanuvium there should be a sacrifice in each case of greater victims, and it was decreed that the matrons, money having been collected as much as each individual could contribute, should carry it as a gift to Juno Regina on the Aventine, and it was decreed that there should be a lectisternium; and that even the very freed-women should contribute money in accordance with their means, whence a gift might be given to Feronia. When those things were done, the Xviri sacrificed at Ardea in the market-place with full-grown victims. Finally, now in the menth of December, there was a sacrifice at Rome at the temple of Saturn and a lectisternium was ordered, and the senators themselves spread the couch, and a public badnquet was decreed, and throughout the city during the day and the night "Saturnalia" was cried, and the people were bidden to have that day as a holiday and preserve it as such in perpetuity.

## Comments:


#### Abstract

A. Context

The twenty prodigies are an aggregation processed immediately after the consuls of C217 took office. All the reports concerned should have been made in the period between processing of the C218 hieme accumulation and the beginning of C217. As will emerge there is one curious exception.


## B. Prodigies

1. This and the following prodigy are likely to be examples of St Elmo's Fire (coronal point discharge). "When the negative charge at the bottom of a thunderstorm attracts positive ions on the earth beneath it, they tend to congregate at the peaks of the highest available objects. That static charge sometimes illuminates in a pale, blue, hissing glow at the tops of trees and buildings, the ice-picks of mountaineers, the wings of airplanes, and the rigging of ships." [DENNIS (1992), p. 129].
2. This could be the result of pockets of gas or oil along the shore suddenly igniting, but the prodigy report says that these fires were frequent in which case these 'fires' might be attributable to the bioluminescence of small algae, washed up to the shore, perhaps during particularly stormy weather.
3. The simple explanation of this phenomenon would be that the dye was running from leather-bound shields. It would, however, have had a strong effect on the ancient

Roman. For most ancient peoples, blood was considered the stuff of life, and was given as an offering to the gods - the Greeks poured blood on the ground to feed the spirits of the dead so that they might think and speak (HOMER Od. 11,34-50). The Aztecs gave the blood of human sacrifices to the sun-god [Fagan (1984), pp. 228-33]; and in the OT there are many instances in which priests sprinkled blood on altars (Exodus, 24:6; 29:16; Leviticus, 1:5; 4:5-7; passim). For blood suddenly to appear on a shield could be interpreted as either a good or a bad omen, depending on which side of the shield it was, but none of the reports indicates which. If it were on the outside, the side facing the enemy, it could be a good omen, indicating victory, the death of foes; on the other hand, if it were on the side facing the soldier, it could only portend death and defeat.
5. Lightning striking down soldiers cannot be viewed as a positive event. "Without a doubt, superstitious minds read into physical occurrences such as these a direct warning from heaven that the gods were arrayed against the martial success of the nation." [Krauss (1930), p. 38]

6 and 9. The natural candidate for identification in both cases is the solar eclipse of 11/02/217 BCE extrapolated julian, partial for both Sardinia and the region of Italy where Arpi is situated. As viewed from Arpi, culmination will have occurred close to $5: 00 \mathrm{pm}$ local time with $65 \%$ of the solar disc obscured. The relatively late hour will have assisted observability to which weather conditions could have made a further contribution. In terms of the Roman republican calendar, the eclipse occurred on

Februarius 8 in the consular year of P. Cornelius Scipio and Ti. Sempronius Jongus (C218).
7. This is a most singular prodigy. As so often, it is a pity that day or night is not spelled out. It is not the regulation rain of stones because the present ones are described as ardentes, and rather than pluvisse, invariably applied to the motion of stones requiring a novendiale for their expiation, they are said cecidisse. If falling in this context does not mean falling to the ground (a sine qua non for a novendiale?), the bodies concerned could be linked conceivably with the aerial parmae of Arpi (8) and perhaps even the two moons reported from Capena (10). If so, it could be a question of meteoric fireballs observed from different locales. Praeneste and Arpi are along an east-west axis, and it is conceivable that bolides, if the phenomenon was indeed meteoric, followed such a trajectory.


The Capena observation could be assimilated as the town is north-west of Praeneste. An astronomical phenomenon observable at any one of the three places ought to have been observable at the others given conducive weather conditions.

A different diagnosis has the stones to be of volcanic origin. Stothers and Rampino (1983), p. 6360, claim that the stones, diminution of the sun (6) and the fiery sky at Capua (17) are indicative of an eruption of Vesuvius, included in a sensational list of Second Punic War prodigies by the first century CE poet, Silius Italicus [Punica, 8.622655]. In view of 9 , the year's partial solar eclipse is a far more likely explanation of
6. Forsyth (1990), p. 5, rightly argues that "Livy's assertions in this passage provide no credible evidence for an eruption of Vesuvius, which, had it actually happened, ought to have been mentioned in and of itself as a truly remarkable prodigy." She notes that the evidence in Livy points against an eruption, rather than for one, because this was the well-documented period of the Second Punic War, and Hannibal, the following year, was able to make his winter camp at Capua and there was enough grain to feed his large army, impossible had there been an eruption the year before. She concludes, (1990), p. 9, "the literary sources, when critically examined, thus present no credible evidence for an eruption of Vesuvius in 217 B.C. In addition, the geological and archaeological evidence also weighs against the thesis of Stothers and Rampino... All evidence considered, then, we should expunge from the record an eruption of Mount Vesuvius in 217 B.C.". There can be little doubt that the bulk of the prodigies listed by Silius are his own lurid invention. Inclusion of a Vesuvius eruption was inspired by the poet's familiarity with the paroxysm of 79 CE .

Drakenborch urged emendation of lapides, stones, to lampades, torches. If one were to follow his recommendation, the case for a meteoric explanation would be strengthened; however, one would not expect to find a Greek word in a prodigial report but rather the Latin term faces.
10. For a possible approach see on 7. An optical phenomenon, the moon and a single paraselenon, is ruled out by occurrence during the day. Some kind of mirage may have been involved.
11. This and the following two prodigies may involve minerals, such as iron oxides, contaminating the water. As this does not appear to have been a constant phenomenon, it is likely to have occurred when the water level was low, with red earth on the river bed causing the appearance of red water, or when there had been heavy rains bringing down red materials from the soil upriver, or when diatomaceous earth was churned up by heavy falls, giving the appearance of blood to the water.

It may have been believed that after great battles involving great bloodshed, blood was drawn up into the clouds and then deposited elsewhere. At Div. 2,58, Cicero with impatient rationalism, attempts a scientific explanation of bloody springs, rains and so forth: sed et decoloratio quaedam ex aliqua contagione terrena maxime potest sanguini similis esse (An effect strikingly like blood is produced by the admixture of water with certain kinds of soil).
12. See on 11.
13. The prodigium has to have occurred at harvest time, somewhere between the summer solstice (25th June) and the heliacal rising of the dog star, Sirius (26th July) (Varro, Rust. 1,32.1). This raises a chronological problem. Why was the prodigy not a member of the aggregation processed in the winter in C218? The answer can only be that the report was not accepted at the time, that

the Antiates protested as its dismissal, and that their protest was eventually upheld by the sacerdotal authorities at Rome.

The original attitude at Rome will have been dictated by the fact that the infection of grain at harvest time by various fungi was a rather routine occurrence. The commonest infection was corn-rust, robigo. On 25th April (VII. KAL MAI) the Romans held the Festival of the Robigalia in honour of the god Robigus, or goddess Robigo Mildew. Sacrifices were offered so that Mildew might not blight the crops. A flamen would offer the sacrifice and then say,
"aspera Robigo, parcas Cerialibus herbis, et termat in summa leve cacumen humo. tu sata sideribus caeli nutrita secundis crescere, dum fiant falcibus apta, sinas. vis tua non levis est: quae tu frumenta notasti, maestus in amissis illa colonus habet. nec venti tantum Cereri nocuere nec imbres, nec si marmoreo pallet adusta gelu, quantum, si culmos Titan ancalfacit udos; tunc locus est irae, dive timenda, tuae. parce, precor, scabrasque manus a messibus aufer."


#### Abstract

("Scaly Mildew, spare the sprouting corn, and let the smooth top quiver on the surface of the ground. O let the crops, nursed by the heaven's propitious stars, grow until they are ripe for the sickle. No feeble power is yours: the corn on which you have set your mark, the sad husbandman gives up for lost. Nor winds, nor showers, nor glistening frost, that nips the sallow corn, harm it so much as when the sun warms the wet stalks; then, dread goddess, is the hour to wreak your wrath. Oh spare, I pray, and take your scabby hands from off the harvest!") (Ovid, Fast. 4,911-22).


It is difficult to say what motivated the Antiates to be so insistent that the rust that affected their harvest in C218 was a prodigy. Part of the answer could lie in war hysteria.
14. All the MSS of Livy read Falernis, which is impossible. Faleriis is the most economical emendation and supported by Plutarch (see the following Section).

However, in view of Orosius, some consideration has to be given to Faliscis. The Falisci were the inhabitants of the ager Faliscis, the principal city of which was Falerii.

If the display took place at night (yet again the Annales are irritatingly unspecific) this is an example of an aurora. In Italy, aurorae are not a common phenomenon, generally occurring only once or twice every ten years [STOTHERS (1979a), p. 85]. Given this rarity, it is understandable that the reports of auroral displays should be allusive and difficult to interpret. Stothers (1979a), p. 90, attributes many celestial phenomenon recorded by ancient authors as aurorae: for example, hiatus (14-C217), caelum ardens (17. C217), as well as pluvia sanguinea (5-C214) and pluvia lactea (10-C209). Other interpretations are not to be ruled out.
15. See on C 218 , 9. Were the religious authorities at Falerii concerned not to be left behind by their colleagues in Caere?!
16. The temple of Mars on the Via Appia contained a statue of Mars and of wolves as wolves were sacred to him. Natural condensation, in this case, could have been mistaken as sweat. Cold stone or metal could easily become wet though humidity. As the sceptical Cicero, Div. 2,58, once again explains: umor adlapsus extrinsecus, ut in tectoriis videmus austro, sudorem videtur imitari (the moisture which forms on the outside of objects, as we see it on our plastered walls when the south wind blows, seems to resemble sweat).
17. The Capuan report may relate to an auroral display also witnessed at Falerii (see on 14).
18. Although all the MSS have lunaeque, which would involve a report of the moon falling, Drakenborch's emendation lanaeque is more than worth considering. Once could compare Praeneste lana volitarit (at Praeneste wool flew) at Obsequens, 52 (C93). The substance observed will have been gossamer, airborne thread of linyphiid spiders. The commonest time of occurrence extends from autumn into early winter. The report will have been too late to have been taken into consideration with the C218 hieme group.
19. Perhaps these goats had a kind of hair that, when it grew long or become damp, curled like sheep's wool.
20. This could simply be a case of the owner of the birds having put them in the wrong cages one night and in the morning erroneously thinking that they had swapped sex. Small wonder, therefore, that Livy reiegated this report to the trivial category.

The fact that Livy includes the last two items at all tells strongly in favour of a basic urge towards comprehensiveness in his reproduction of prodigial material from the Annales Maximi.

## C. Expiations

In setting out the procedural details on the basis of the pontifical records, Livy follows strict chronological order. The day sacred to Juno of the Aventine was 1st

September. That of Feronia was 13 th November. The last prescription related, as spelled out, to December [See Warde Fowler (1911), p. 316].

The time consumed in expiating the prodigies accumulated between winter C218 and the beginning of C217 is quite remarkable.

## II. OROSIUS, 4.15.1:

Diris tunc etiam Romani prodigiis territi sunt:

1. nam et solis orbis minui visus est
2. et apud Arpos parmae in caelo visae
3. sol quoque pugnasse cum luna
4. apud Capenas interdiu duas lunas ortas
5. in Sardinia sanguine duo scuta sudasse
6. Faliscis caelum scindi velut magno hiatu visum
7. apud Antium metentibus cruentas spicas in corbem decidisse

## Translation:

At that time also the Romans were terrified by dreadful prodigies:

1. for the orb of the sun was seen to be diminished
2. and in the territory of Arpi shields had been seen in the sky
3. also the sun had fought with the moon
4. in the territory of Capena during the day two moons rose
5. in Sardinia two shields sweated with blood
6. at Falerii the sky was seen to be cut asunder as if with a great gaping
7. in the territory of Antium bloody ears of corn fell into the baskets of the harvesters

## Comment:

The seven items selected by Orosius are presumably those which he considered the most striking and preternatural.

## Consuls: C. Terentius Varro, L. Aemilius Paullus

I. LIVY, 22,36.6-9:
ceterum priusquam signa ab urbe novae legiones moverent, decemviri libros adire atque inspicere iussi propter territos vulgo homines novis prodigiis.

1. nam et Romae in Aventino
2. et Ariciae nuntizium erat sub idem tempus lapidibus pluvisse
3. et multo cruore signa in Sabinis
4. Caeretesque aquas [fonte callidos] manasse - id quidem etiam, quod saepius acciderat, magis terrebat
5. et in via formicata, quae ad Campum erat, aliquot homines de caelo tacti exanimatique fuerant
ea prodigia ex libris procurata.

## Translation:

But before the new legions were to move their standards from the City, the Xviri were orderud to access and consult the Books, on account of people generally terrified by new prodigies.

1. for both at Rome on the Aventine
2. and at Aricia it was announced about the same time that it had rained stones
3. amongst the Sabines the images of the gods ran with much blood
4. and so too the waters of Caere - an occurrence all the more terrifying because it had happened with some frequency
5. in the arched way, which used to lead to the Campus, some people had been hit from the sky and killed

These prodigies were expiated in accordance with the Books

## Comments:

## A. Context

Livy has noted the election of Varro and Paullus as consuls for C216 at 22,35. They led out the legions when civil and religious duties had been performed. The five prodigies are those accepted for processing and expiation out of all reports accumulated since early C217. The tiny number does not necessarily conflict with Livy's assessment $(28,11.1)$, already noted, that in times of great crisis the number of prodigial announcements increased greatly. It may reflect wholesale culling of the reports in hand. It is natural to suspect that the impatient and irreligious Varro was the figure ultimately responsible. Significantly, there is no indication of a novendiale being used in connexion with either of the rains of stones. Even a single nine day delay of public business and war preparation would have been incompatible with Varro's temperament.

## B. Prodigies

1 and 2. For the phenomenon, see on $\mathrm{C} 218,8$.
3. Statues that bled, talked, and sweated, were not an uncommon occurrence, even through to the Middle Ages. This phenomenon could be attained by drilling small holes throughout the statue, through which water or blood could flow. An early example of a statue adapted for this kind of religious propaganda can by found in the Ny Karlsberg Epicurus of the first century CE, which has holes allowing the
introduction of a speaking tube through :. aderside of the bust to the mouth [Poulsen (1947), pp. 181-2], remarkable in view of the Epicurean efforts to expose the conjuring apparatus of such charlatans as Alexander of Abonoteichus (see LucIAN 'A $\bar{\epsilon} \xi \xi \alpha \nu \delta \rho o \varsigma ~ \hat{\eta} \psi \epsilon v \delta o ́ \mu \alpha \nu \tau \iota \varsigma)$. Speaking statues were not as common as those the sweated or bled, and there seem to be no examples of speaking statues in the Livian prodigia lists where one would most expect to find them. In the Middle Ages it was believed that there was nothing more healin; than the blood that flowed from the crucifixion wounds in Christ's hands and feet, or the tears shed by his sorrowing Mother [POULSEN (1947), p. 192]. The holy image of Januarius of Naples, every year on his celebration day, sweats blood [POULSEN, (1947), p. 194]. Such phenomena continue even today, as the case of the bleeding Madonna of Civitavecchia (1995) shows. Images sweat or bleed or even move not only for religious reasons - desires for oracles, prayers for healing, good crop yields - but also for political purposes. Disadvantageous military manœuvres, illness or death of a ruler, or even treacherous allies make 'living' statues react.
4. The MSS give the first word as caedes. Caeretes (Gronovius) or Caere (Perizonius) are obvious alternative emendations. I have adopted the former and added -que without which the transition from 3 would be rather harsh. Whether or not a gloss, the corrupt fonte callidos of the best MSS must be corrected to fonte calido. Alschefski proposed fonte calido [gelidas].
5. See on C217, 5. Hit from the sky by lightning. The striking of individuals could, like that of walls and gates (see on C214, 10), be taken to signify divine displeasure
with the community to which the victim belonged. In terms of a more particularist line of interpretation, the individuals struck down were the objects of the gods' wrath.

## C. Expiation

At least one, probably two novendialibus should have been essential for correct expiation of the accepted prodigies. See A above for a suggestion as to the reason for omission.

## I/. LIVY, 22,57.2-6:

6. territi etiam super tantas clades cum ceteris prodigiis
(6) tum quod duae Vestales eo anno, Opimia atque Fioronia, stupri compertae et altera sub terra, ut mos est, ad portam Collinam necata fuerat, altera sibimet ipsa mortem consciverat.
hoc nefas cum inter tot, ut fit, clades in prodigium versum esset, decemviri libros adire iussi sunt et $Q$. Fabius Pictor Delphos ad oraculum missus est sciscitatum quibus precibus supplicisque deos possent placare et quaenam futura finis tantis cladibus foret. interim ex fatalibus libris sacrificia aliquot extraordinaria facta; inter quae Gallus et Galla, Graecus et Graeca in foro boario sub terra vivi demissi sunt in locum saxo consaeptum, iam ante hostiis humanis, minime Romano sacro, imbutum.

## Translation:

6. They were terrified on top of such great defeats both by other prodigies
(6) and because two Vestals, Opimia and Floronia, had in that year been convicted of unchastity. Of these one had been buried alive, as the custom is, near the Colline Gate, and the other had killed herself.

Since in the midst of so many horrible things this corruption had been converted into a portent, the Xviri were commanded to consult the Books, and Quintus Fabius Pictor was sent to Delphi, to enquire of the oracle with what prayers and supplications they might propitiate the gods, and what would be the end of all their calamities. In the meantime, by the direction of the Books
of Fate, some unusual sacrifices were offered; amongst others a Gaulish man and woman and a Greek man and woman were buried alive in the Cattle Market, in a place walled in with stone, which even before this time had been defiled with human victims, a type of sacrifice Only marginally compatible with the Roman spirit.

## Comments:

## A. Context and Related Matters

The setting is the immediate aftermath of the battle of Cannae. Since it is unlikely that the other prodigies, ceteris prodigiis, referred to are the five expiated prior to the consuls' departure from Rome, the question arises whether Livy has failed to reproduce a batch of prodigia, duly processed and expiated, recorded in the Annales Maximi alongside the unchastity of two of the Vestals. Although not beyond the bounds of possibility this is improbable. Rather, ceteris prodigiis may reflect Livian assimilation of Polybius who relates $(3,112)$ that shortly before engagement at Cannae, the whole of Rome was in a state of heightened excitement and fear with all the oracles were delivered in people's mouths and every temple and every house full of signs and prodigies so that prayers and sacrifices and supplications and petitions to the $g o d_{s}$ permeated the city:


 $\dot{\epsilon} \pi \epsilon \dot{\chi} \chi \circ \nu \tau \grave{\eta} \nu \pi o ̈ \lambda \iota \nu$.

The portentous appearances and occurrences alluded to are clearly not prodigies in the official sense but reflections of the hysterical credulity of local religious congregation $y_{S}$ and private families. The ritual responses listed are not public expiations overseen by
the pontifices but again a matter of local and private reaction. The same passage of Polybius may be behind elements in a detached excerpt from the account of the second Punic war in Cassius Dio. The germane part of the passage $(14,7=$ M.151; Loeb edition, p. 102) runs as follows:
$\grave{\eta} \lambda \pi \iota \zeta o \nu \mu \dot{\eta} \dot{\eta} \tau \tau \eta \theta \dot{\eta} \sigma \epsilon \sigma \theta \alpha L$. (Many prodigies, some of which had really occurred
and others which were idle chatter became subjects of conversation... As a result,
sacrifices and all the other rituals were performed to which people are accustomed
to have recourse as an anodyne for their terror of the moment and as a means of
eluding what they anticipate... Even if, due to the magnitude of the peril expected,
they believed all the more that the harshest circumstances would befall,
nevertheless they continued to hope that they would not be defeated.)

A prodigy as momentous as the Vestals' infidelity could not be held over for processing until the next consular year.

## B. Comment

6. This report, placed immediately after the devastating defeat at Cannae, seems to be used as an explanation for it.

The first interment of a Vestal Virgin, Tuccia, occurred in 230 bcE. The Vestal was buried alive in a small underground chamber containing a bed, and the bare necessities of life such as bread, water, milk, and oil, possibly because the Romans shrank from murdering a woman who had been consecrated to the service of Vesta. The fact that the woman starved to death did not seem to disturb the Romans as her death was not on their hands. It was also believed that if a Vestal had been adjudged incorrectly and was in fact still virgin, those bits of food would sustain her until the
goddess herself rescued the girl, proving her to have retained her vows and her virginity. The ceremony surrounding the punishment of the unchaste Virgin was exact and fairly complex, as described by Plutarch, Num., 10,6-7:


#### Abstract

             placed on a litter, over which coverings are thrown and fastened down with cords so that not even a cry can be heard from within, and carried through the forum. All the people there silently make way for the litter, and follow it without uttering a sound, in a terrible depression of soul. No other spectacle is more appalling, nor does any other day bring more gloom to the city that this. When the litter reaches its destination, the attendants unfasten the cords of the coverings. Then the high-priest, after stretching his hands towards heaven and uttering certain mysterious prayers before the fatal act, brings forth the culprit, who is closely veiled, and places her on the steps leading down into the chamber. After this he turns away his face, as do the rest of the priests, and when she has gone down, the steps are taken up, and great quantities of earth are thrown into the entrance of the chamber, hiding it away, and making the place level with the rest of the mound. Such is the punishment of those who break their vows of virginity.)


It has been suggested by several scholars [Harrison (cited by Merrill (1914), pp.
318-22); Lambrechts (cited by Porte (1984), p. 237)] that this tomb of the Vestal was indeed her bridal chamber. She was Proserpine returning to her infernal spouse, Pluto, king of Hades. This is not a generally held view because, as Porte writes, (1984), p. 237, "curieus cortège nuptial, en vérité, que cette procession en deuil escortant la litière hermétiquement close où gît la prêtresse dépouillée de ses parures rituelles, rendue muette et immobile par des moyens brutaux...".

According to Ovid (Fast. 6,459-60), a Vestal was buried underground because of the relationship between Vesta and the Earth:
sic incesta perit, quia quam violavit, in illam conditur, et Tellus Vestaque numen idem.
(This is the doom of her who proves unchaste; because she is put away in the earth which she contaminsted, since Earth and Vesta are one and the same deity.)

## C. Expiation

Once the Vestals' behaviour had been identified as an official, public prodigium, burial alive of those directly involved was no longer a sufficient means of dealing with the atrocity. Appropriate expiatory measures became mandatory. The Sibylline Books were consulted and one of the response was gruesomely drastic, the human sacrifice, by burial alive in the Forum Boarium, of two Greeks and two Gauls, in both cases one of each sex, noted by Plutarch, Quaest. Rom. 283:
$\epsilon \dot{\nu} \rho \epsilon \theta \hat{\eta} \nu \alpha \iota \quad \delta \dot{\epsilon} \quad \phi \alpha \sigma \iota \quad \chi \rho \eta \sigma \mu o u ̀ \zeta \quad \tau \alpha \hat{v} \tau \dot{\alpha} \quad \tau \epsilon \quad \pi \rho о \delta \eta \lambda о \bar{\eta} \nu \tau \alpha \varsigma \quad \dot{\omega} \varsigma \quad \dot{\epsilon} \pi \grave{\imath}$ к $\alpha \kappa \hat{\varphi}$


 foretelling that these events would come to pass for the bane of the Romans, and enjoining on them that, to avert the impending disaster, they should offer as a sacrifice to certain strange and alien spirits two Greeks and two Gauls, buried alive on the spot.)

In 228 BCE came the first instance of human sacrifices by burial alive, thereby 'defiling' the Forum Boarium initially. As Dio/Zonaras explains it at 8,19 :



 $\kappa \alpha \tau о \rho \omega \rho v \gamma \mu \epsilon \in \nu o t$ vopi$\zeta \omega \nu \tau \alpha \iota$. (Inasmuch as an oracle had once come to the Romans that Greek and Gauls should occupy the city, two Gauls and likewise
two Greeks, male and female, were buried alive in the Forum, in order that in this way destiny might seem to have fulfilled itself, and these foreigners, thus buried there, might be regarded as possessing a part of the city.)

Reid (1912), p. 39, questions the necessity of the burial of foreigners in this case, claiming that the suffering undergone by the erring Vestals would have been sufficientto expiate their sin, but the two separate burials, that of the Vestals and that of the two couples, should not be seen as part of each other; rather the Vestal scandal was a prodigium that prompted the Senate to consuit the Books, and this consultation brought about the sacrifices of the Greeks and Gauls.

The question that remains is, why Greeks and Gauls?
Initially scholars studying the human sacrifice phenomenon at Rome theorized that such occurred only when Rome was menaced by some great external threat, and that the burial of foreigners was an apotropaic way of obviating this threat. The victims were representatives of their nations, those currently hostile to Rome, and so the burial of living victims was a kind of Kriegsopfer [ECKSTEIN (1982), p. 69]. This theory is untenable because, while human sacrifices occurred in 228,216 , and $114 / 3$, in none of these years was Rome at war with Greeks and/or Gauls. In fact, in 216, Rome's major ally against Carthage was Syracuse, at that time a Greek city state, and although the Macedonian war was in the wind, there is no evidence to link the sacrifices to the bellicose activities of Philip. Moreover, in each sacrifice the victims were Greeks and Gauls - it was not a case of the victims' being changed to suit the military and political situation. Eckstein proposes that "the use of Greeks and Celts may reflect the two great enemies of Rome's own legendary or semi-legendary past: the Greeks had sacked Troy, and the Romans were willing to claim descent from Trojan refugees; the Celts, nearer in time, had sacked Rome itself." (1982), p. 81.

If this were the case, that foreigners were sacrificed as traditional enemies, then why were the victims not solely men, the bearers of arms and the wagers of war? Why were woman also sacrificed?

Porte (1984), p. 241, suggests that, as the Romans had a predilection in their liturgies for rhythm and rhyme, the inclusion of women was motivated by purely poetic needs:

## graecus et graeca,

gallus et galla
She continues, "on peut expliquer leur choix par des raisons stylistiques, leurs noms composant une formula bien équilibrée." (1984), p. 241.

Whatever the reason for the choice of Greeks and Gauls, both male and female, rather than being a Kriegsopfer, the sacrifice was indicative of a State act designed to appease the Roman gods by restoring any rupture in the pax deorum, and to avert any threat that menaced the city.

Further living entombments occurred in $114 / 3$ BCE, and Pliny (N.H. 28,12) also claims that: boario vero in foro Graecum Graecamque defossos aut aliarum gentium cum quibus tum res esset etiam nostra aetas vidit (Our own generation indeed even saw buried alive in the Cattle Market a Greek man and a Greek woman, and victims from other peoples with whom at the time we were at war). Interestingly, a little further he contradicts his earlier claim when he admits $(30,12)$ that:

DCLVII demum anno urbis Cn. Cornelio Lentulo P. Licinio Crasso cos. senatusconsultum factum est no homo immolaretur, palamque in tempus illut sacra prodigiosa celebrata. (It was not until the 657th year of the City [98 BCE] that in the consulship of Cn. Cornelius Lentulus and P. Licinius Crassus there was passed a senatusconsultum forbidding liuman sacrifices; so that down to that date it is manifest that such abominable rites were practised.)

# Consuls: L. Postumius Albinus, Ti. Sempronius Gracchus 

LIVY, 23,30,17; 31.12-15; 32.13:
circumacto tertio anno Punici belli Ti. Sempronius consul idibus Martiis magistratum init. ...
postquam Marcellus ab exercitu rediit, comitia consuli uni rogando in locum L. Postumii edicuntur. creatur ingenti consensu Marcellus, qui extemplo magistratum occiperet. cui ineunti consulatum cum tonuisset, vocati augures vitio creatum videri pronuntiaverunt; volgoque patres ita fama ferebant, quod tum primum duo plebeii consules facti essent, id deis cordi non esse. in locum Marcelli, ubi is se magistratu abdicavit, suffectus Q. Fabius Maximus tertium.

1. mare arsit eo anno
2. ad Sinuessam bos eculeum peperit
3. signa Lanuvii ad lunonis Sospitae cruore manavere
4. lapidibusque circa id templum pluit
ob quem imbrem novendiale, ut adsolet, sacrum fuit, ceteraque prodigia cum cura expiata... et Romae consules transactis rebus quae in urbe agendae erant movebant iam sese ad bellum.

## Translation:

The third year of the Punic War being at an end, Tiberius Sempronius entered upon office as consul on the Ides of March. ... After Marcellus returned from the army, an election to name one consul in place of Lucius Postumius [who had died] was ordered by edict. With great unanimity Marcellus was elected, to assume ofice at once. Just as he was entering upon his consulship it thundered, and thereupon the augurs, being summoned, declared that there seemed to be a defect in his election. And the fathers widely circulated the statement that it did not meet the approval of the gods that two plebians had then for the first time been elected consuls. In place of Marcellus, after he had abdicated, Quintus Fabius Maximus was substituted as consul for the third time.

1. the sea was aflame in the course of that year
2. at Sinuessa a cow gave birth to a colt
3. at tbr Temple of Juno Sospita at Lanuvium statues ran with blood
4. it rained stones around that Temple
on account of those storics, there was a sacred novendiale, as usual, and the rest of the portents were duly expiated... At Rome, after doing what had to be done in the city, the consuls were bestirring themselves for war.

## Comments:

## A. Context

The prodigies, listed immediately after the election of the consuls for C215 and processed prior to their departure from the city for war, will have been reported in between processing of the Vestal virgins prodigium the previous year and the beginning of the present one. It is possible, although not necessarily the case, that there was considerable culling of reports despite the atruosphere created by the devastating defeat at Cannae on 2 Sextilis. Religious and other authorities may well have felt that the disaster had been all but adequately expiated by the burial alive and suicide of Vestals and the sacrificial interment of living Gauls and Greeks.

## B. Prodigies

1. Once again, the shortness of the report makes accurate identification difficult. There is no specific location provided to give any clue as to the cause of this appearance of 'fire'. In view of Dio's version (see next Section), this could be an example of marine bioluminescence. At night, luminous algae or plankton can create
the appearance of a sea on fire. Alternatively, if the phenomenon witnessed had been of a red colour, then submarine volcanism, especially if the affected area was in the vicinity of the Lipari isiands, is another possibility.

2. Throughout the various prodigia lists there are mentions of unnatural animal births. These range from the abnormal but possible (for example, hermaphrodites and teratologies) to the impossible. On this occasion either a cow bore a calf so deformed that it looked like a colt, or some king of fraudulent substitution was effected.

According to Columella ( $6,24.1$ ), a preferred time for Italian farmers for the impregnation of cows was from mid-June to July. Calving would then take place ten months later, in May. Varro (Rust. 2,5.13) and Pliny (N.H. 8,177) allude to a different regime whereby mating occurred around the rising of the constellation Delphinus, which took place in January. In that case, November would be the month of calving. Since the present prodigy must have been reported later in C 216 than the culmination of the Vestal affair, the cow concerned will have been impregnated in the context of the second system.
3. See on C216, 3.
4. See on $\mathrm{C} 218,8$. If, as implied, the phenomenon was isolated to the immediate surrounds of the temple, the meteoric and volcanic fallout theories are impossibly strained. Even if the fall was dispersed over a wider area, but specifically reported to have fallen around the temple because it was the only important structure in the area, the latter explanation can be ruled out given Lanuvium's location.

## C. Expiation

The expected novendiale is mentioned by Livy as having been the expiatory measure for the rain of stones. As far as the other prodigies are concerned, we know only that they were expiated, but not in what manner. There is no information pertaining to duration of expiation or to which god or gods entreaty was made, though one would consider it not unlikely that some form of offering was made to Juno Sospita given that two of the four prodigies occurred in her precinct.

## Consuls: Q. Fabius Maximus, M. Claudius Marcellus

LIVY, 24,10.1; 10,6-13:
quo dies magistratum inierunt consules, senatus in Capitolio est habitus... prodigia eo anno multa nuntiata sunt, quae quo magis credebant simplices ac religiosi homines, eo plura nuntiabantur.

1. Laiavi in aede intus Sospitae lunonis corvos nidum fecisse
2. in Apulia palmam viridem arsisse
3. Mantuae stagnum effusum Mincio amni cruentum visum
4. et Calibus creta
5. et Romae in foro bovario sanguine pluvisse
6. et in vico Insteio fontem sub terra tanta vi aquarum fluxisse, ut serias doliaque, quae in eo loco erant, provoluta velut impetus torrentis tulerit
7. tacta de caelo atrium publicum in Capitolio
8. aedem in campo Vulcani
9. vicum in Sabinis publicamque viam
10. murum ac portam Gabiis
iam alia vulgata miracula erant:
11. hastam Martis Praeneste sua sponte promotam
12. bovem in Sicilia locutum
13. infantem in utero matris in Marrucinis 'io triumphe' clamasse
14. ex muliere Spoleti virum factum
15. Hadriae aram in caelo speciesque hominum circum eam cum candida veste visas esse
16. quin Romae quoque in ipsa urbe secundum apum examen in foro visum - quod mirabile est, quia rarum
17. adfirmantes quidam legiones se armatas in laniculo videre concitaverunt civitatem ad arma, cum qui in laniculo essent negarent quemquam ibi praeter adsuetos collis eius cultores apparuisse
haec prodigia hostiis maioribus procurata sunt ex haruspicum responso et supplicatio omnibus deis quorum pulvinaria Romae essent indicta est.

## Translation:

On the day the consuls entered office, the Senate met on the Capitol... Many prodigies were reported in the year - and the more uncomplicated and superstitious men were believing them, the more of them used to be reported.

1. at Lanuvium in the temple of Juno Sospita inside ravens had made a nest
2. in Apulia a green palm took fire
3. at Mantua a swamp, representing the overflow of the river Mincius, appeared bloody
4. at Cales it rained with chalk
5. at Rome in the Cattie Market it rained with blood
6. and on the Vicus Insteius an underground spring flowed with a force of water so great that it carried small and large jars, which were in this place, rolled along just as if by the force of a rushing stream

Hit from the sky were
7. the Public Forecourt on the Capitol
8. the temple of Vulcan in the Campus
9. a row of houses and a public street in the Sabine country
10. the wall and a gate at Gabii

Moreover other marvels were circulated
11. the spear of Mars at Praeneste moved forward of its own accord
12. a cow in Sicily spoke
13. among the Marrucini an infant in its mother's womb shouted "Hail, triumph!"
14. at Spoletum a woman was changed into a man
15. at Hadria there were observed an altar in the sky and the appearance of men around it in shining white clothes
16. at Rome in the very city, following, a swarm of bees seen in the Forum - which is remarkable because it's rare
17. certain people stirred up the citizen body to arms, insisting that they were seeing armed legions on the Janiculum at the same time as those who were on the Janiculum were denying anyone had appeared there except the accustomed denizens of that hill

These prodigies were expiated with full-grown victims on the advice of the haruspices, and supplicatio was decreed for all the gods of whom there were couches at Rome.

## Comments:

## A. Context

These seventeen prodigies are an aggregation of those reported between early C215 and the entry into office of the consuls of C214. Livy's presentation of events at the beginning of the new consular year is compatible with their having been processed on the day the consuls entered office. The list is a relatively long one. The civil and religious authorities were evidently not prepared on this occasion to engage in heavy culling.

## B. Prodigies

1. See on $\mathrm{C} 218,6$.
2. See on $\mathrm{C} 217,1$.
3. See on C217, 11.
4. This 'chalk' rain could have been the result of volcanic dust high in the atmosphere as Vulcano had erupted the previous year, there are no other records in the ancient literature redolent of volcanism. Vulcano erupted in 215 BCE [SIMKIN et al. (1981), p. 35] but the severity or otherwise of this submanine eruption is unknown. Alternatively, such fallout could reflect atmospheric pollution caused by bush fires but again there is no hint elsewhere of such an occurrence. Soils with a high salt content can appear chalky after heavy rain.
5. 'Blood' rains still fall in parts of Italy today, as well as in other parts of the world. If Cicero's observation that such incidents are a matter of rain showers affected by some kind of mineral contamination (aliqua contagione terrena) is correct, then Stother's (1979a), p. 90, claim that this phenomenon reflects observation of the aurora borealis can be safely rejected. While aurorae, particularly in minauroral latitudes, are frequently of a red colour, the phenomenon scarcely resembles rain. (See on C217, 14).

Saharan dust has been claimed as the culprit in European cases, a view too readily rejected by Ehrenberg [cited by Tatlock (1914), p. 443] who asserted that the dust that mixed with water, thereby giving the appearance of diluted blood, lacked the characteristic African forms. Investigation into winds originating from Africa in fact supports the hypothesis that dust from the Saharan desert may be carried by winds in the direction of Italy and beyond, although thorough comparative scientific analysis of dust from the Sahara and particles deposited in Italy has yet to be carried out.

When serious atmospheric disturbances approach from the west, southerly winds cause the Sirocco to occur in southern Italy. This is a dry wind of African origin,
laden with sand and dust particles from the Sahara [FloHn (1969), p. 169]. The depressions that traverse Libya and the Qattara Depression and are accompanied by these hot, dust-laden desert winds, occur $50 \%$ of the time in April and May, but are also known to appear in autumn. These masses of tropical air moving from North Africa to Italy acquire varying amounts of moisture, depending on how far the Sirocco has had to travel across the Mediterranean. This dust- and moisture-faden air brings to Italy warm, humid weather, often accomp_nied by rain. It may very well be such rain, reddened by Saharan dust, that was reported by the ignorant and superstitious in antiquity as 'blood rain'. Indeed, Corliss (1983), p. 84, claims quite unequivocally that "the European 'rains of blood', described since history began to be written down... can usually be blamed on dust blown north from Africa." African dust has allegedly been carried by winds as far afield as the Caribbean and Southern California, and French Guiana [PROSPERO \& CARLSON (1981), pp. 677-91], proving that this is an extremely widespread phenomenon.

Another, and perhaps the earliest, explanation for rains of blood was offered by Nicolas Claude Fabri de Peiresc and Pierre Gassendi in the seventeenth century, and by Réaumur and Fontenelle in the eighteenth century, who ascribed them to butterflies [cited by SARTON (1947), pp. 96-8]. Unfortunately, the type of butterfly which caused the red spots from which Peiresc drew his conclusion has never been identified. Furthermore, enormous numbers of butterflies would be needed to produce enough red spots to be interpreted as a residue of blood rains. Such proliferation would be counted as a prodigium of itself.

Corliss (1983), p. 106, states that "the coloring matter in blood rains inevitably turns out to be reddish dust and organic matter". There are several theories regarding
the origins of these rains of organic matter, from birds fighting overhead to wind storms picking up the flesh of slaughtered animals and dropping it in its course, but the one that appears most able to account for an extensive fall of 'blood' is that which invoked vegetal matter.

The unicellular volvovalean green alga haematococcus pluvialis, when subjected to extreme environmental conditions such as dehydration, nutrient starvation, and nitrogen deficiency, transforms from a green, vegetative, motile cell to a red, nonmotile aplanospore capable to withstanding these unfavourable conditions [ZLOTNIK et al. (1993), p. 463] The production of secondary ketocaretenoids, in particular the red pigment astaxanthin, is not limited solely to the haematococcus but is mediated also by other species of algae such as the chlamydomonas nivalis (presumed to be the cause of 'blood snow') [Czygan (1970), p. 69], though this latter, as may be assumed from its effect, is active under chilling conditions. These coccoid chlorophytes and xanthophytes have been found to form colonies rapidly from windblown propagules [JOHANSEN (1993), p. 144] and this capacity for proliferation supports the theory that the red nonmotile aplanospores of the $H$. Pluvialis were carried by winds and brought down in rain over parts of Italy.

The area reported to be affected is very confined. Either part of a wider region is spelled out because of its especial significance or at least this blood rain is more fictive than real!
8. See on C218, 4.
9. For this first word the MSS offer the unintelligible vocem and arcem. Hertz conjectured a location, Vacunae which does not accord well with either of these readings. Vicum is the suggestion of Bicknell.
10. Lightning strikes to gates and walls could be indicative of divine attacks on a city's fortifications and as such would certainly require expiation to appease the gods and save the city. As Krauss (1930), p. 38f, observes, "the withdrawal of Jupiter's protection and his active hostility were seen when lightning leveled the defenses of towns and cities."
11. See on $\mathrm{C} 218,5$. The spears of Mars were possibly the first embodiment of the god. Unlike the Greeks, the Romans were very slow to create anthropomorphic gods, as is evident in the worship of a fire in the temple of Vesta rather than a statue of the goddess.
12. That this was not considered a malignant prodigium is shown in the treatment of the animal afterwards. It was well-cared for, so it was not seen as an evil thing in itself but rather simply an instrument of the gods, notifying the Roman people that all was not well. Having been touched by the gods, having had, so it was supposed, a god speaking through it, the - ' was treated almost as a divine object.
13. See on C217, 1.
14. Lack of a specified age for this unfortunate individual allows for two options for possible identification. The first is relevant only if the individual were young, a child approaching puberty. There is a medical condition which can result in the erroneous identification of a male child as a female child, an identification which is rapidly reversed with the onset of puberty,
 sometimes causing, as perhaps in this case, great consternation for the parents and other adults. It is a pity that there is no information regarding the impact this reidentification had on the individual involved. "The hormonal defect in these male pseudohermaphrodites is caused by a genetic deficiency in the enzyme 4 steroid 5-alpha reductase, which impairs the metabolism of testosterone into dihydrotestosterone (DHT). Since DHT is the prenatal mediator of masculinization of external genitalia, such persons at birth are sexually ambiguous, with a marked bifid scrotum that appears labia-like, an absent or clitoris-like penis, undescended testes, and associated hermaphroditic traits." [HERDT (1990), p. 435]. If this condition is recognized, the individual may be reared as a male and no further complications arise, but more often it is not and the individual, though genetically male, is reared as a female. The problem becomes evident with the onset of puberty. "Because they are genetically normal males, with presumed prenatal exposure of the brain and CNS to testosterone, all 5 -alpha reductase hermaphrodites begin to virilize again at puberty through the
peripheral timing effects of their own plasma testosterone. Hence, the voice deepens, muscles develop, the penis grows somewhat, and testes descend." [HERDT (1990) p. 436]. In such cases, the 'woman' becomes a man. Alternatively, if the woman concerned were menopausal, then the decrease of female hormones, coupled with an increase in male hormones, could have brought about the appearance of masculinity.
15. Yet again, unfortunately, we are not told whether the phenomenon was observed during the day or at night. If witnessed at night, the prodigium. could reflect an aurora (see on C217, 14). Otherwise, the obvious candidate for identification is some kind of mirage.

16. From the section concerning bees at Pliny, N.H. 11,55 comes the following passage:
tunc ostenta faciunt privata ac publica uva dependente in domibus templisque, saepe expiata magnis eventibus. sedere in ore infantis tum etiam Platonis, suavitatem illam praedulcis eloquii portendentes; sedere in castris Drusi imperatoris cum prosperrime pugnatum apud Arbalonem est, haut quaquam perpetua harsupicum coniectura, qui dirum id ostentum existimant semper. (Moreover bees supply private and public portents when a cluster of them hangs suspended in houses and temples, portents that have often been expiated by great events. They alighted on the mouth of Plato even when he was still an infant, portending the charm of that matchless eloquence; and they alighted in the camp of the commander Drusus on the occasion of the very successful battle of Arbalo - as there are certainly exceptions to the interpretation of the augurs, who invariably think this a direful portent.)

Often in Livy they appear to be viewed as a dirum ostentum representative of forces hostile to Rome, and concerned to bring about its downfall. An early example of this can be found at Livy, $21,46.1$, where he writes that a swarm of bees had settled in the tree which overhung the Scipio's tent in a military camp (examen apum in arbore praetorio imminente consederat). Even though Scipio performed the sacrifices which should have averted such an evil omen, the ensuing battle against Hannibal resulted in a Roman defeat.

At Cicero Div. 1,73, a passage relating to Siceliote Greek history, bees figure as a favourable omen in connexion with a major political figure:

Dionysius... qui, sum per agrum Leontinum iter faciens, equum ipse demisisset in flumen, sibmersus equus voraginibus non exstitt; quem cum maxima contentione non potuisset extrahere, discessit, ut ait Philistus, aegre ferens. cum autem aliquantum progressus ettet, subito exaudavit hinnitum respexitque et equum alacrem laetus aspexit, cuius in iuba examen apium consederat. quod ostentum habuit hanc vim, ut Dionysius paucis post diebus regnare coeperit. (Dionysius... was travelling through the Leontine district, and led his horse down into a river. The horse was engulfed in a whirlpool and disappeared. Dionysius did his utmost to extricate him but in vain and, so Philistus writes, went away greatly troubled. When he had gone on a short distance he heard a whinny, looked back and, to his joy, saw his horse eagerly following and with a swarm of bees in its mane. The sequel of this portent was that Dionysius began to reign within a few days.)

According to Columella (9,14.5), bees swarm from May to June: $a b$ exortu Vergiliarum ad solstitium, quod fit ultimo mense Iunio circa ocatvam partem Cancri, fere examinant alvi (From the rising of the Pleiades [10th May] to the solstice, which takes place at the end of June in about the eighth degree of the Crab, the hives generally swarm). The prodigy concerned, then, is likely to have been announced many months before processing and expiation.
17. See on C218, 7.

## C. Expiation

The haruspices, the Etruscan soothsayers, were consulted in respect these prodigies which do not strike one as especially unusual. One wonders who felt that the Roman pontifices were incapable of handling them and why.

## $\mathrm{C} 213=12 / 4 / 213-1 / 4 / 212$ вCEJ

## Consuls: Q. Fabius Maximus, Ti. Sempronius Gracchus.

## LIVY, 24,44.9-9:

consules duabus urbanis legionibus scriptis supplementoque in alias lecto, priusquam ab urbe moverent, predigia procurarunt quae nuntiata erant.

1. murus ac portae ...
2. et Aricias etiam Iovis aedes de caelo tacta fuerat et alia ludibria oculorum auriumque credita pro veris:
3. navium longarum species in flumine Tarracinae quae nulla $\langle\mathrm{e}\rangle$ era $\langle\mathrm{n}>\mathrm{t}$ visas
4. et in lovis Vicilini templo, quod in Compsano agro est, arma concrepuisse
5. et flomen Amiterni cruentum fluxisse
his pucuratis ex decreto pontificum profecti consules, Sempronius in Lucanos, in Apuliam Fabius.

## Translation:

After two legions had been enrolled for the city and recruits enlisted to reinforce the others, the consuls, before they moved out from the city, expiated the prodigies which had been reported.

1. at $\qquad$ the wall and gates
2. and at Aricia even the temple of Jupiter had been hit from the sky

Various deceptions of the eyes and ears were accepted as real:
3. in the river at Tarracina appearances of warships which were not really there had been seen
4. and in the temple of Jupiter Vicilinus, in the territory of Compsa, arms clashed together
5. and the river at Amiternum ran with blood

These having been expiated according to a decree of the pontifices, the consuls set out, Sempronius to Lucania, to Apulia, Fabius.

## Comments:

## A. Context

The five prodigies are processed between the election of the consuls for C213 and their departure to their respective theatres of war. The reports from which they were culled will have accumulated throughout the previous consular year.

## B. Prodigies

1. See on C214, 10. The name of the town is missing from the MS. Luterbacher proposed Caietae to fill the lacuna though it is difficult to understand his confidence in his reconstruction.
2. See on C218, 4.
3. Given visas, an essential replacement for visae of the MSS, correction of nulla erat to nullae erant is obligatory.

This is probably a case of looming. As Humphreys (1964), p. 469, explains:
Since the extension of the actual, beyond the geometrical, horizon depends... upon the density decrease of the atmosphere with increase of elevation, it follows that any change in the latter must produce a corresponding variation of the former. An increase, for instance, in the normal rate of decrease, such as often happens over water in middle to high latitudes, produces the phenomenon of looming, or the coming into sight of objects normally below the horizon.

Here, the warship that were not there were probably moored below the horizon on the witness who then only saw an optical illusion.
4. This phenomenon is most simply explained as the consequence of a minor earth tremor, too minor in itself to be regarded or reported as a prodigium, or to cause any damage.

Pliny, N.H. 2,193, says of earthquakes:
praecedit vero comitaturque terribilis sonus, alias murnuri similis, alias mugitibus aut clamori humano armorumve pulsantium fragori, pro
 qualitate materiae excipientis formaque vel cavernarum vel cuniculi per quem meet
(They are however preceded or accompanied by a terrible sound, that sometimes resembles a rumble, sometimes the lowing of cattle or the shouts of human beings or the clash of weapons struck together, according to the nature of the material that receives the shock and the shape of the caverns or burrows through which it passes.)

Alternatively, since shields and spears were kept in many temples, the tremor might have noisily disturbed real weapons.
5. See on C217, 11.

## C. Expiation

As usual, the pontifices were in charge of the expiation of these prodigies. Nu need was perceived to consult either the Sibylline books or the Etruscan haruspices. Either the Annales Maximi failed to record the directions of the pontifices or else Livy himself omitted them, perhaps due to their commonplaceness.

## $C 212=2 / 4 / 212-14 / 4 / 211$ BCEJ

## Consuls: Q. Fulvius Flaccus, Ap. Claudius Pulcher

LIVY, 25,2.1; 7.7-9:
Q. Fulvius Flaccus tertiam Appius Claudius consulatem ineunt...
tempestates foedae fuere

1. in Albano monte biduum continenter lapidibus pluvit
tacta de caelo multa
2. duae in Capitolio aedes
3. vallum in castris multis locis supra Suessulam et duo vigiles exanimati
4. murus turresque quaedam Cumis non ictae modo fulminibus sed etiam decussae
5. Reate saxum ingens visum volitare
6. sol rubere solito magis sanguineoque similis
horum prodigiorum causa diem unum supplicatio fuit; et per aliquot dies consules rebus divinis operam dederuni; et per eosdem dies sacrum novendiale fuit.

## Translation:

Quintus Fulvius Flaccus, for the third time, and Appius Claudius entered upon their consulship...

There were dreadful storms;

1. on the Alban Mount it rained stones unremittingly for two days

Many things were hit from the sky:
2. two temples on the Capitol
3. the rampart of the camp above Suessula was hit in many places from the sky with two sentries losing their lives
4. at Cumae the walls and certain towers were not merely struck by lightning but even thrown down
5. at Reate a huge stone was observed flying
6. the sun seemed to be redder than usual and similar to a bloody one

By reason of these prodigies there was a supplicatio, and for several days the consuls gave attention to religious rites; and during the same time there was a sacred novendiale.

## Comment:

## A. Context

Prior to the processing of these six prodigies, Livy deals with a scandal involving tax-farmers. Then, while the consuls were endeavouring to raise recruits for the army, a letter was received in the Senate from Marcellus in Sicily, regarding those soldiers who had fought at Cannae. A delegation was despatched to Marcellus who, after hearing their case, sent another letter to the Senate. This was duly discussed and it appears that only after all this had occurred did the prodigies, collected between early C213 and early C212, finally receive attention.

## B. Prodigies

Storms were sent by the gods, particularly Jupiter, the sky god, and were indicative of their displeasure which required placatory measures. At Cicero, Div. 1,16, Quintus declines to ascribe a divine origin to such phenomena, saying, sic ventorum et imbrium signa, quae dixi, rationem quam habeant, non satis perspicio: vim et eventum agnosco,
scio, approbo (thus as to the cause of those premonitory signs of winds and rains already mentioned I am not quite clear, but their force and effect I recognize, understand and vouch for). Intense storms could also be precursors of earthquakes: "a coming earthquake influences the atmospheric processes so powerfully that meteorological events are altered profoundly" [Tributsch (1983), p. 138]. This could also support the alternative explanation of 6 .

As dreadful as they were, the storms themselves were not prodigies but their catastrophic effects were often seen as such.

1. See on $\mathrm{C} 218,8$. The duration and localization of this fall do not accord well with the hypothesis of a meteorite shower. This is the location of the first recorded rain of stones, during the reign of Tullus Hostilius. It would be pleasant to hypothesize that the Alban Mount, while not actually erupting, did spit out a few stones, but unfortunately there is not the slightest possibility that the Alban Mount was active at this time. Newton (1966), p. 126, suggests that "perhaps the most likely source of volcanic showers in the neighbourhood of Rome is Monte Epomeo in the bay of Naples, which has always been the centre of volcanic activity when Vesuvius is inactive." Given that this mount is over 150 km from the Alban Mount and there are no reports around this period of volcanic activity in Epomeo's immediate vicinity [Simkin et al. (1981), pp. 33-7], this strange explanation can be confidently ruled out.
2. See on C218, 4.
3. In general, see on $\mathbf{C} 214,10$. In respect of the sentries, see on C217, 5.
4. See again on C214, 10. The phraseology proves conclusively that tactum de caelo and ictum fulminibus are interchangeable.
5. If we suppose some exaggeration on the part of the observants, some sort of seismic phenomenon might be the best explanation. Obviously there is too little detail for a confident diagnosis. As so often we are not even informed as to whether the event took place during the day or at night.
6. One might plausibly expect "similar to a bloody $x$." This leads' to the possibility of a word having dropped out of the text. This event was probably witnessed at Reate.

Clearly some kind of atmospheric pollution was involved, possibly caused by volcanic dust. Vulcano erupted, as has already been mentioned (C214, 4), in 215 BCE, but this seems a long time for resultant pollutants, if any, to have remained in the atmosphere. This pollution could have been caused by the smoke of forest fires.

Another possibility, if 5 has a seismic aetiology, is earthquake fog, one of the many phenomena associated with earthquakes [TRIBUTSCH (1983)]

## C. Expiation

The 'religious rites' to which the consuls gave their attention are undocumented. The novendiale appears among the expiatory processes because of the rain of stones. Supplicatio: a day set aside for public prayer when men were garlanded and women wore their hair loose, and the whole population went around the city from temple to temple to offer prayers.

## C211 $=15 / 4 / 211-4 / 4 / 210$ BCEJ

## Consuls: Cn. Fulvius Centumalus, P. Sulpicius Galba

LIVY, 26,23.4-6:
eodem anno prodigia aliquot visa nuntiataque sunt.

1. in aede Concordiae Victoria quae in culmine erat fulmine icta decussaque ad Victorias quae in antefixis erant haesit neque inde procidit
2. et Anagniae
3. et Fregellis nuntiatum est murum portasque de caelo tacta
4. et in foro Subertano sanguinis rivos per diem totum fluxisse
5. et Ereti lapidibus pluvisse
6. et Reate mulam peperisse
ea prodigia hostiis maioribus sunt procurata, et obsecratio in unum diem populo indicta et novendiale sacrum.

## Translation:

In the same year several prodigies were observed and announced

1. at the Temple of Concord a Victory which was on top, having been struck by lightning and dislodged, was caught in the Victories which were on the antefixes and did not fall down from there
2. both at Anagnia
3. and at Fregellae it was announced the walls and gates had been hit from the sky
4. at the market-place in Subertanus streams of blood flowed for a whole day
5. at Eretum it rained stones
6. at Reate a mule had foaled

These prodigies were expiated with full-grown victims, and an obsecratio was proclaimed to the people for one day and a sacred novendicle.

## Comments:


#### Abstract

A. Context

This year opens at the beginning of book 26 yet the prodigies are only enumerated in chapter 23 in the wake of Livy's account of the consular and other ( sctions for C211. Immediately prior to the prodigy list is mention of the decree to make the Ludi Apollinares a permanency, so that it may be observed as this and later years. As the games were celebrated from 6-13 Quintilis, the decree dates to June at the latest. It is highly unlikely , $\because$ rodigies were held over for some months before being processed. Clearly, Livy's decision to make the Roman campaign to retake Capua the highlight and focus of his treatment of C211 led him not only to relegate other events to a minor status but also to tack some of them on as a sort of appendix to the mainstream narrative. Levene (1993), p. 58, suggests that Livy displaced the C211 prodigies for the dramatic purpose of keeping the year as free as possible from prodigies. In the absence of convincing explanation of Livy's motives, this is gratuitous.


## B. Prodigies

1. In C216, Hiero sent to Rome as a gift a golden Victory, weighing two hundred and twenty pounds (Livy, 22,37.5). This statue, gratefully accepted, was assigned the Capitol, the temple of Jupiter Optimus Maximus, as its seat. In ea arce urbis Romanae sacratam, volentem propitiamque, firmam ac stabilem fore populo Romano (established in that citadel of Rome she would be gracious and propitious, faithful and steadfast, to the Roman people) (Livy 22,37.12). The striking down by Jupiter of one of his
attendants, the one symbolizing and embodying victory, during a time of war could not fail to induce alarm in the Romans.

2 and 3. See on C214, 10.
4. See on C217, 11. Possibly heavy rains caused flooding and there was water contamination by infusoria in an unusual place. Alternatively, perhaps the local butchers had a busy day!
5. See on $\mathrm{C} 218,8$. Due to the distance of Eretum from any area of volcanism, volcanic ejecta must be rejected as the explanation. Given the absence of counterindications such as extreme localization ard prolongation. meteorites are the best provisional alternative.
6. A majority of the prodigia reported from Reate revolves around mules and their breeding. Rawson (1971), p. 164, finds this remarkable and uses it to support a contention that special collections of similar prodigies were made. In doing so, she fails to take into account the fact that Reate was the major breeding ground of mules, asses and horses in Italy. With such a high concentration of these animals in one place, and their husbandmen
 dependent on them for their livelihoods, it is natural that any abnormal occurrence be
reported and viewed with alarm. Varro, himself a Reatine, emphasizes (Rust. 2,1.14)
the pecuniary value of the animals bred at Reate:
hoc nomine enim asini Arcadici in Graecia nobilitati, in Italia Reatini, usque eo ut mea memoria asinus venierit sestertiis milibus sexaginta et unae quadrigae Romae constiterint quadringentis milibus. (It is for this reason [breed] that in Greece the asses of Arcadia are noted, and in Italy those of Reate - so much so that within my recollection an ass fetched 60000 sesterces, and one team of four at Rome sold for 400000 .)
(See also Rust. 2,6.2, Such valuable property would be carefully scrutinized for any defects.

It is possible that the animal concerned on this occasion was not actually a mule. Alternatively, while a mule, it was not barren. Whilst not a common occurrence, it is possible for a mule to bear offspring. A mule is the hybrid progeny of a mare and a jackass. A horse has a diploid set of 64 chromosomes, a donkey has only 62. As a consequence, the mare's egg will contain a haploid set of 32 chromosomes, while the sperm of the jack will contain a haploid set of 31 chromosomes, creating a mule with a diploid set of 63 chromosomes. Reproductive cells are produced by a process called meiosis during which each chromosome must pair. If the two sets of chromosonss are homologous then effective pairing at meiosis can occur; if the sets are not homologous, as they are in the case of a mule because not only the number but also the structure of horses' and donkeys' chromosomes are different, then the somes are unable to pair up, meiosis is not completed and viable gametes are impossible. Through a genetic defect, bearing in mind that sperm and egg cells are the only haploid cells in a body comprising of diploid cells, meiosis may be completed after a fashiori and fertility may be the result. Such fertility is very rare, but Travis (1990) notes that since 1527, 60 live foals have been born to mules. Cicero, ever the sceptic where supernatural origins are accorded unusual events, comments at Div. 2,61: nam si, quod raro fit, id
portentum putandum est, sapientem esse portentum est; saepius enim mulam peperisse arbitror quam sapientem fuisse (now if a thing is to be considered a portent because it is seldom seen, then a wise man is a portent; for as I think, it more often happens that a mule brings forth a colt than that nature produces a sage).

It is difficult to date this prodigy because mules would not be put with stallions or jackasses as they were considered always to be sterile. Horses, according to Pliny (N.H. 8,163), ColumelJa ( $6,27.3$ ), and Varro (Rust. 2,7.7), were mated at the time of the vernal equinox. Birth occurred twelve months later. Asses, on the other hand, were not to be bred at the same time as horses, but had to wait until the summer solstice (Pliny, N.H. 8.167; Varro, Rust. 2,6.4).

## C. Expiation

The expected novendiale is found amonyst this year's prescriptions.

## C210 $=5 / 4 / 210-15 / 4 / 209$ вСЕ $J$

## Consuls: M. Claudius Marcelius, M. Valerius Laevinus

LIVY, 27,4.11-15:
multa ea aestate qua haec facta sunt ex propinquis urbibus argisque nuntiata sunt prodigia:

1. Tusculi agnum cum ubere lactenti natum
2. Iovis aedis culmen fulmine ictum ac prope omni tecto nudatum
3. iisdem ferme diebus Anagniae terram ante portam ictam diem ac noctem sine ullo ignis alimento arsisse
4. et aves ad compitum Anagninum in luco Dianae nidos in arboribus reliquisṣe
5. Tarracinae in mari haud procul portu angues magnitudinis mirae lascivientium piscium modo exsultasse
6. Tarquiniis porcum cum ore humano genitum
7. et in agro Capenate ad lucum Feroniae quattuor signa sanguine multo diem ac noctem sudasse
haec prodigia hostiis maioribus procurata decreto pontificum, et supplicatio diem unum Romae ad omnia pulvinaria, alterum in Capenati agro ad Feroniae lucum indicta.

## Translation:

During the summer in which these events occurred, many prodigies were reported from neighbouring cities and from the country:

1. at Tusculum a lamb was born with an udder fu!l of milk
2. the top of Jupiter's temple was struck by lighting and stripped of nearly all its roofing
3. at Anagnia roughly in the same period of days, ground in front of the gate was struck and burned for a day and a night without any fuel for the fire
4. at the crossroads near Anagnia, in the grove of Diana, birds deserted their nests in the trees
5. at Tarracina, in the sea not far from the harbour, serpents of remarkable size leaped about in the manner of fish frolicking
6. at Tarquinii a pig was born with a human face
7. and in the territory of Capena at the grove of Feronia, four statues sweated much blood for a day and a night

These prodigies were atonet for with full-grown victims by decree of the pontifices. And prayers were ordered for one day in Rome at all the pulvinaria, and for a second day at the grove of Feronia, in the territory of Capena.

## Comments:

## A. Context

Livy fails to record the processing of prodigies at the beginning of the consular year. Either no reports had been submitted to the authorities at Rome since eariy C211, which is unlikely, or all those received had been discarded as trivial, fraudulent or otherwise unsuitable for referral by the incoming consuls to a meeting of the Senate. Subsequent unease about the appropriateness of such a total cull may have contributed to a decision to process immediately some reports received during summer (ea aestate).

## B. Prodigies

1. This lamb is a curious creature, being apparently male - agnum instead of agnam. The male sex could be attributed to an error on the part of the copyist. It is possible for a lamb to be born with what appears to be a milky udder though it is not actually able to produce milk like its mother. Alternatively, perhaps this report was seen as
prodigious because a male lamb was born with an udder, but in that case one might expect to find more mention of the lamb's gender.

The preferred time, for the Roman farmer, for lambing was autumn rather than spring (Varro, Rust. 2,2.13-14; Pliny, N.H. 8,187; Columella, 7,3.11). The present prodigy would have been announced then at the end of summer in the broad sense rather than close to its beginning.
2. See on C218, 4.
3. The prodigy report specifies that there was no fuel for this fire, meaning that no wood or any other obviously combustible material located on the ground was present. Therefore, this lightning strike must have hit a pocket of natural gas or oil which, once ignited, burnt until it was depleted.

4. Birds, like other animals have been known to act strangely before an earthquake or
tremor. Tributsch (1983), p. 6, presents the following tales about birds:
Two peasant women were talking between their houses when they noticed the noise made by a swarm of sparrows that were fluttering around one of the gables. One of the women remarked that she hoped this was not a sign of another impending earthquake. They had just changed the subiect when the earth shook again. Another observation concerns the unusual ithaviour of swallows. Having left on their fall migration several days before, they returned to the village and their nests on the morning of September 15. About half an hour before the quake, they all flew away again - this time for good.

It :s a pity that the species of bird involved is not spelled out.
5. Krauss (1930), p. 113, flatly asserts that "these creatures were most probably nothing more than dolphins", yet the ancient Romans certainly knew what dolphins looked like, and one wonders if it were at all possible for them to have seen dolphins but not recognized them as such, even in a period of high stress/war psychosis. If not actual sea snakes, large eels will have been responsible for this report.
6. Natural occurrences, if they were not of the ordinary, were viewed with suspicion and deemed to portend some variety of evil. It is not surprising that a people such as the Romans, who saw omens and indications of divine presence in such things as lightning strikes and the flights of birds, should be so deeply affected by human and animal birth deformities and see in them bad omens [Leichty (1966), pp. 131-3]. Nature was straying from her normal, well-ordered path - a
 clear sign that the gods felt angry and wronged. The Romans believed that appropriate expiations would right these wrongs.

The Roman farmer's preferred time for mating pigs was February/March. Farrowing, consequently, took place in July (Varro, Rust. 2,4.7; COLumella, 7,9.3; Pliny, N.H. 8,205).
7. See on C216, 3 .

## C. Expiation

Expiation was made not only at Rome but also at Capena, in the local grove of Feronia. Possibly an Etruscan goddess, Feronia had links with freedmen and women, and slaves. She came to have a grove at Rome. It is natural enough that expiation in situ should have been seen as appropriate.

Pulvinaria: On these things, see, in particular, SCullard (1981), p. 21. The pulvinaria were platforms on which statues of the gods were placed so that kneeling worshippers could adore them.

## Consuls: Q. Fabius Maximus, Q. Fulvius Flaccus

LIVY, 27,11.2-6:
prodigia quoque priusquam ab urbe consules proficiscerentur procurari placuit.

1. in Albano monte tacta de caelo erañt signum Iovis arburque templo propinqua
2. et Ostiae lacus
3. et Capuae murus Fortunaeque aedis
4. et Sinuessae murus portaque
haec de caelo tacta
5. cruentam etiam fluxisse aquam Albanam quidam auctores erant
6. et Romae intus in cella aedis Fortis Fortunae de capite signum quod in corona erat in manum sponte sua prolapsum
7. et Priverni satis constabat bovem locutum
8. volturiumque frequenti foro in tabernam devolasse
9. et Sinuessae natum ambiguo inter marem ac feminam sexu infantem, quos androgynos volgus, ut pleraque faciliore ad duplicanda verba Graeco sermone, appellat
10. et lacte pluvisse
11. et cum elephanti capite puerum natum
ea prodigia hostiis maioribus procurata, et supplicatio circa omnia pulvinaria, obsecratio in unum diem indicta; et decretum ut C. Hostilius praetor ludos Apollini sicut iis annis voti factique erant voveret faceretque.

## Translation:

It was decided that the prodigies be expiated before the consuls were to set out from the city

1. on the Alban Mount a statue of Jupiter and a tree near the temple had been hit from the sky
2. at Ostia a basin
3. at Capua the city wall and the temple of Fortune
4. at Sinuessa the wall and a gate

All these were hit from the sky
5. also certain people reported that the water at Alba flowed bloody
6. and that at Rome inside in the inner sanctuary of the Temple of Fors Fortuna an image which was in the garland on the statue's head fell into its hand of its own accord.
7. there was sufficient agreement that at Privernum a bull spoke
8. and that a vulture flew down into a shop when the forum was crowded
9. and that at Sinuessa a child was born of ambivalent sex, between male and female - which creatures people for the most part called androgynes, Greek speech being more amenable for making double-barrelled words
10. and that it rained milk
11. and that a child was born with the head of an elephant

These prodigies were atoned for with full-grown victims, and it was decreed that prayers were ordered at all the pulvinaria, and entreaties for one day; and it was decreed that C. Hostilius praetor vow and perform the games to Apollo just as they had been vowed and performed in recent years.

## Comments:

## A. Context

The prodigies of this year must have been collected between those reported and expiated ea aestate the previous year and the entry into office of the consuls of this year. As normal, it was decreed by the Senate that they be expiated prior to the consuls' leaving the city.

## B. Prodigies

1 and 3. See on C218,4.
4. See on C214,10.
5. See on C217,11.
6. The most economical explanation of this occurrence would be a slight seismic disturbance possibly assisted by the precarious placement of the piece of statuary. Any prodigy occurring in the temple of Fortune, particularly those relating to falls, must have alarmed people as an omen of misfortune to come.
7. See on C214,12.
8. Vultures were seen by the Romans as birds of augury. Romulus and Remus had first used them to settle their quariel about the site of their city. Plutarch, Romulus, 9,6 , tells that the vulture is the least harmful of birds because it lives on carrion rather than killing other creatures or damaging grain or fruit trees. The vulure had a mystic aura about it: it was not like other birds in so many ways, as Plutarch, Rom. 9,7, goes on to explain:



 $\alpha \dot{v} \tau o \hat{v}, \pi o \mu \pi \hat{\eta} \delta \hat{\epsilon} \theta \in i \alpha \alpha \phi \alpha \iota \nu o ́ \mu \epsilon \nu o \nu$. (the vulture is a rare sight, and it is not easy to come upon a vulture's young. Some mer hive been led into a strange suspicion that the birds come from some other and foreign land to visit us here, so rare and intermittent is their appearance, which the soothsayers think should
be true of what does not present itself naturally, nor spontaneously, but by a divine sending.)

On the part of those disposed to consider prodigies as more than simply signs of divine displeasure, the vulture's association with death and with another land might prompt interpretation of its appearance as being indicative of a threat to Rome coming from outside the State.
9. See on C214,14. In cases such as that described above, the genitalia of the infant may resemble more closely those of a female (hence later in life a "sex change") or they could, as in this case, be far more ambiguous, leading to identification of the child, who was most likely genetically male, as an hermaphrodite. This is another example of Nature's going ominously awry.
10. See on C214,4. Although it is specifically reported that lac rather than creta rained down on this occasion, in both cases the two substances are white and it is likely that the same phenomenon is concerned in both cases. The location is presumably Sinuessa again.
11. See on $\mathrm{C} 210,6$. It is unfortunate that the prodigy reports are often so bald as to make an accurate identification of the described phenomena close to impossible. This report is definitely one that eludes definite diagnosis of the condition. It could simply be that the child was born with large and/or prominent ears. Various types of medical condition can cause more serious enlargements or deformities of the head that might fit the context. One of these results in the appearance of lipomatous areas on the head, neck and paravertebral region, which are often accompanied by rugose and discoloured
skin and an absence of hair follicles, and hyperostosis of the skull. Tumours could further contribute to an elephantine appearance. Was this child then an unfortunate sufferer of encephalocraniocutaneous lipomatosis which "is characterized by craniocutaneous and central nervous system lipomas, various brain malformations, mental deficiency, seizures, epibulbar dermoids, focal alopecia, and other abnormalities"? [Ruzzo et al., (1993), p. 653] Yet again, the location should be Sinuessa.

## C. Expiation

The Ludi Apollinares had already been vowed to be celebrated in perpetuity back in C211 $(26,23.3)$. It seems superfluous for them to have been vowed again.
$\mathrm{C} 208=6 / 4 / 208-26 / 3 / 207 \mathrm{BCEJ}$

## Consuls: M. Claudius Marcellus, T. Quinctius Crispinus

LIVY, 27,23.2-4:
praetores in provincias profecti; consules religio tenebat quod prodigiis aliquot nuntiatis non facile litabant.

1. et ex Campania nuntiata erant Capuae duas aedes, Fortunae et Martis, et sepulcra aliquot de caelo tacta
2. Cumis - adeo minimis etiam rebus prava religio inserit deos - mures in aede Iovis aurum rosisse
3. Casini examen apium ingens in foro consedisse
4. et Ostiae murum portamque de caelo tactam
5. Caere volturium volasse in aedem lovis
6. Volsiniis sanguine lacum manasse
horum prodigiorum causa diem unum supplicatio fuit. per dies aliquot hostiae maiores sine litatione caesae diuque non impetrata pax deum. in capita consulum re publica incolumi exitiabilis prodigiorum eventus vertit.

## Translation:

The praetors set out for iheir assignments, but the consuls were detained by religious scruples, because, several prodigies having been announced, they did not easily obtain successful result.

1. from Campania it had been announced that at Capua two temples, those of Fortune and of Mars, and a number of tombs were struck from the sky
2. at Cumae mice had gnawed the gold in the temple of Jupiter - to such an extent debase superstition involves divine agency in even the most trivial occurrences
3. at Casinum an enormous swarm of bees had settled in the forum
4. at Ostia the wall and a gate had been hit from the sky
5. at Caere a vulture had flown into the temple of Jupiter
6. at Volsinii the lake had flowed with blood

On account of these prodigies prayers were offered for one day. For several days full-grown victims were slain without favourable omens, and for a long tirne the peace of the gods was not achieved. The State being safe, the deadly outcome of the prodigies turned on the heads of the consuls.

## Comments:

## A. Context

These prodigies are an aggregate of those reported and accepted for expiation between early C209 and C208. The departure of both consuls from the city was held up by their processing.

## B. Prodigies

1. See on C218, 4.
2. A trivial occurrence indeed. Despite his respectful attitude to prodigies in general, Livy cannot refrain from deprecation as far as this item is concerned. Conceivably he was influenced by the strictures of Cicero who notes at Div. 2,59 , that it is a mouse's raison d'être to gnaw on things. He goes on to ridicule the possibility that such a prodigy could portend anything significant:
quasi vero quicquam intersit, mures diem noctem aliquid rodentes scuta an cribra correserint! nam si ista sequimur, quod Platonis Politian nuper apud me mures corroserunt de re publica debui pertimescere, aut, si Epicuri de Voluptate liber rosus esset, putarem annonam in macello cariorem fore! (As if it mattered a whit whether mice, which are gnawing something day and night, gnawed shields or sieves! Hence, by the same token, the fact that, at my house, mice recently gnawed my Plato's Republic should fill me with alarm for
the Roman republic; or if they had gnawed my Epicurus On Pleasure I should have expected a rise in the market price of food!)

It is easy for an educated man such as Cicero to deride this and similar prodigies, but for the uneducated and superstitious masses such an assault on gold, the symbol of power and leadership, may have been interpreted as an onslaught on the power and leadership of the Roman State itself.
3. See on C214, 16. Some of the MSS read Casilini instead of Casini.
4. See on C214, 10. Instead of Ostia some MSS have the meaningless hostiae. Such swarming of bees is most likely to occur in May and June. For Columella $(9,14.5)$ the crucial time lies between the rising of the Pleiads (May 11th in his day) and the summer solstice.

5. See on C209, 8.
6. See on C217, 11.

## C. Expiation

For as long as favourable omens were not obtained, it was incumbent upon the consuls to continue sacrificing until the peace of the gods should be indicated by a positive result.

## Consuls: C. Claudius Nero, M. Livius Salinator

LIVY, 27,37.1-15:
priusquam consules proficiscerentur novendiale sacrum fuit quia

1. Veiis de caelo lapidaverat
sub unius prodigii, ut fit, mentionem alia quoque nuntiata
2. Minturnis aedem lovis
3. et lucum Maricae
4. item Atellae murum et portam
de caelo tactam
5. Minturnenses, terribilius quod esset, adiciebant sanguinis rivum in porta fluxisse
6. et Capuae lupus nocte portam ingressus vigilem laniaverat
haec procurata hostiis maioribus prodigia, et supplicatio diem unum fuit ex decreto pontificum.
inde iterum novendiale instauratum quod
7. in Armilustro lapidibus visum pluere
liberatas religione mentes turbavit rursus nuntiatum
8. Frusinone natum infantem esse quadrimo parem, nec magnitudine tam mirandum quam quod is quoque, ut Sinuessae biennio ante, incertus mas an femina esset natus erat
id vero haruspices ex Etruria acciti foedum ac turpe prodigium dicere: extorrem agro Romano, procul terrae contactu alto mergendum. vivum in arcam condidere, provectumque in mare proiecerunt. decrevere item pontifices ut virgines ter novenae per urbem euntes carmen canerent. id cum in Iovis Statoris aede discerent conditem ab Livio poeta carmen
9. tacta de caelo aedis in Aventino lunonis reginae
prodigiumque id ad matronas petinere haruspices cum respondissent donoque divam placandam esse, aedilium curulium edicto in Capitolium convocatae quibus in urbe Romana intraque decimum lapidem ab urbe domicilia essent, ipsae inter se quinque et viginti delegerunt ad quas ex dotibus stipem conferrent; inde donum pelvis aurea facta lataque in Aventinum, pureque et caste a matronis sacrificatum. confestim ad aliud sacrificium eidem divae ab decemviris edicta dies, cuius ordo talis fuit. ab aede Apollinis boves feminae albae duae porta Carmentali in
urbem ductae; post eas duo signa cupressea Iunonis reginae portabantur. tum septem et viginti virgines longam indutae vestem, carmen in Iunonem reginam canentes ibant, illa tempestate forsitan laudabile rudibus ingeniis, nunc abhorrens et inconditum si referatur. virginum ordinem sequebantur decemviri coronati laurea praetextatique. a porta lugario vico in forum venere; in foro pompa constitit, et per manus reste data virgines sonum vocis pulsu pedum modulantes incesserunt.
inde vico Tusco Velabroque per bovarium forum in clivum Publicium atque aedem Iunonis reginae perrectum. ibi duae hostiae ab decemviris immolatae, et simulacra cupressea in aedem inlata.

## Translation:

Before the consuls set out there was a sacred novendiale because

1. at Veii it had rained stones

With the mention of one prodigy, as happens, others had been announced too
2. at Minturnae the Temple of Jupiter
3. and the grove of Marica
4. likewise at Atella the city wall and a gate
were hit from the sky
5. the men of Minturnae added, to make the situation all the more terrible, that there had been a stream of blood at the gate
6. at Capua a wolf, having entered a gate by night, mangled a sentry

By a decree of the pontiffs, these prodigies were atoned for with full-grown victims, and a oneday supplicatio was observed.

Then the novendiale were repeated again because
7. on the Armilustrium it had been observed to rain with stones

Liberated from religious fear, minds were perturbed again when it was announced that
8. at Frusino that there had been born a child equal in size to a four-year-old, and not so much a wonder for size as because this child too had been born in such a condition that it was uncertain where male or female, as at Sinuessa two years before

The haruspices summoned from Etruria pronounced that it was a foul and disgusting prodigy; it must be removed from Roman territory, far from contact with earth, and drowned in the sea. They deposited it alive into a chest and conveyed forth, they threw it into the sea. In the same respect, the pontiffs decreed that thrice nine maidens, marching through the city, should sing a
hymn as they marched through the city. While they were learning the hymn that had been composed by the poet Livius in the temple of Juno Sospita
9. the Temple of Juno the Queen on the Aventine was hit from the sky

When the haruspices had replied that that prodigy was pertinent to the matrons and that the goddess was to be pleased with a gift, the matrons domiciled in the city of Rome or within ten miles of it were summoned by an edict of the curule aediles to the Capitol. And from their own number they themselves chose twenty-five, to whom they should bring a contribution from their dowries. From what they brought a gift in the form of a golden bowl was made as a gift and carried to the Aventine, and the matrons after due purification offered sacrifice. Straightaway a day was decreed by the Xviri for another sacrifice to the same goddess; and the arrangement of which was as follows: from the Temple of Apollo two white cows were led through the Porta Carmentalis into the city; behind them were carried two statues of Juno the Queen in cypress wood. Then the seven and twenty maidens, in long robes, proceeded, singing their hymn to Juno the Queen, in that age perhaps praiseworthy to unsophisticated minds, but which would seem repellent and unrefined if repeated. Behind the company of maidens followed the Xviri wearing laurel garlands and purple-bordered togas. From the gate they came to the forum by way of the Vicus lugarius. In the Forum the procession halted, and passing a rope from hand to hand the maidens advanced, accompanying the sound of the voice with the beat of their feet.
Then by way of the Tuscan quarter and the Velabrum then through the Forum Boarium progress was made to the Clivus Publicius and the Temple of Juno the Queen. There the twovictims were sacrificed by the Xviri and the cypress statues were carried into the temple.

## Comments:

## A. Context

The prodigies are listed immediately after the elections of the magistrates and the allotment of provinces. 1-6 were aggregated between early C208 and the entry into office of the consuls of C207. 7 and 8, which occurred during the expiation of 1-6, were considered sufficiently serious to necessitate instantaneous expiation. 9 was reported while expiation of 8 was underway; in this case too immediate attention was felt to be required. An overall result was extra delay to the consuls' departure from the city.

## B. Prodigies

1. See on C218, 8.

2 and 3. See on C218, 4. Marica was an important local goddess at Minturnae. Even if her grove had been struck during the same storm as the temple of Jupiter the occurrence would have been treated as a prodigium in its own right.
4. See on C214, 10.
5. See on C211, 4.
6. See on C218, 10. Possibly this prodigy was inspired by the problems that the Romans had had with the Capuans who had sided with Hannibal in C216 but had been recaptured by the Romans a few years later. Presumably the wolf concerned was extremely hungry, a condition that suggests that the incident occurred
 in winter.
7. The Armilustrium was both a place on the Aventine and a ceremony for the purification of the army and its arms, to protect it "from the dangerous infection that it my have incurred from contact with bloodshed and strangers" [SCULLARD (1981), p. 195]. Since the stone rain concerned allegedly occurred early in the consular year in
connotes a spatial rather than temporal location. The Armilustrium festival took place in October. The spatial confinement of the claimed phenomenon is once again peculiar. Fraud cannot be ruled out; see further below on expiation.
8. See on C209, 9.
9. See on C218, 4.

## C. Expiation

A second novendiale must have been inconvenient indeed, given the military situation. It is conceivable that the second shower of stones expiated was fictive, a matter of one political faction seeking to harass another.

## Consuls: L. Veturius Philo, Q. Caecilius Metellus.

LIVY, 28,11.1-7:
in civitate tanto discrimine belli sollicita, cum omnium secundorum adversorumque causas in deos verterent, multa prodigia nuntiabantur:

1. Tarracinae lovis aedem
2. Satrici Mairris Matutae de caelo tactam
3. Sáricanos haud minus terrebant in aedem Iovis forib:1s ipsis duo perlapsi angues
4. ab Antio nuntiatum est cruentas spicas metentibus visas esse
5. Caere porcus biceps
6. et agnus mas idem feminaque natus erat
7. et Albae duo soles visos ferebant
8. et nocte Fregellis lucem obortam
9. et bos in agro Romano locutus
10. et ara Neptuni multo manasse sudore in circo Flaminio dicebatur
11. et aedes Cereris, Salutis, Quirini de caelo tactae
prodigia consules hostiis maioribus procurare iussi et supplicationem unum diem habere; ea ex senatus consulto facta. plus omnibus aut nuntiatis peregre aut visis domi prodigis terruit animos hominum ignis in aede Vestae exstinctus caesaque flagro est Vestalis cuius custodia eius noctis fuerat iussu P. Licini pontificis. id quamquam nihil portendentibus dis, ceterum neglegentia humana acciderat, tamen et hostiis maioribus procurari et supplicationem ad Vestae haberi placuit.

## Translation:

In thie State worried by such a crisis-point in the war, when they were attributing the causes of all that went right and wrong to the gods, prodigies were being announced:

1. at Tarracina the temple of Jupiter
2. at Satricum the temple of Mater Matuta had been hit from the sky
3. two serpents sliding in the temple of Jupiter by way of the very doors alarmed the people of Satricum no less
4. from Antium it was announced that bloody ears of corn had been observed by harvesters
5. at Caere a pig had been born with two heads
6. and a lamb at the same time male and female had been born
7. at Alba people were putting it about that two suns had been seen
8. at Fregellae light had arisen in the night
9. an ox spoke in the ager Romanus
10. the altar of Neptune in the Flaminian Circus was said to have streamed with copious sweat
11. the temples of Ceres, Salus, and Quirinus were hit from the sky

The consuls were bidden to expiate the prodigies with full-grown victims and to have a one-day supplicatio observed. Both orders were carried out in accordance with the decree of the Senate. More then all the prodigies either announced from outside or seen at home, the fire in the temple of Vesta having gone out terrified the minds of people. The Vestal whose duty it had been to take care of it on the night concerned was beaten by a whip by the order of the pontifex P. Licinius. Although that had occurred not by way of the gods' signifying anything but by a human's negligence, nevertheless it was decided that the occurrence be expiated by full-grown victims and that a supplicatio should be held to Vesta.

## Comments:

## A. Context

Again the prodigy list appears directly after the inauguration of the new magistrates $(28,10.8)$ and the distribution of the provinces. They were processed prior to the consuls' leaving the city (28,11.11). Despite nuntiabantur rather than nuntiata erant,
at least some of phenomena concerned were noted months before the commencement of C206; see below on $3,4,5$, and 6 .

## B. Prodigies <br> 1, 2 and 11. See on C218, 4.

3. This was a frightening sight as snakes could be considered a symbol of death, occasioning fear amongst witnesses.

The snake was a creature of the earth, smerging from the earth, and as such had an especial relationship with the Underworld. Snakes found in places where they were not accustomed to be found, such as a temple of other building, could not portend good. Cicero (Div. 1,36), tells of Ti. Sempronius Gracchus who caught two snakes in his house. He was told by the haruspices that his wife would die if he released the male snake but he would die if he released the female snake. A few days after releasing the female snake, he died.

Tributsch (1983), pp. 30, 34-5, 39, points out that snakes are very sensitive to earth movements and prior to earthquakes they vacate their holes, even leaving hibernation early. It is unlikely, however, that the prodigy was reported in early C206 rather than in the warm months of C207.
4. See on C217, 13. The summer solstice, after which the harvest commenced (Varro, Rust. 1,32.1; Columella 2,30.1), took place on Junius 15, C207.
5. See on C210, 6. Normally pigs were mated close to the vernal equinox; the gestation period was four months (Varro, Rust. 2,4.7). The two-headed piglet, then, should have been born in C207.
6. See again on C210, 6. The preferred time for lambing was autumn (Varro, Rust. 2,2.13-14). The hermaphroditic lamb, then, should have been born in C207. The place of observation will be Caere again.
7. Mock suns, also known as parhelia or sun dogs, are not uncommon sights in connexion with solar halo. Halos are formed by hexagonal ice crystals whose flat tops and bottoms reflect or refract light [SCHAAF (1989), p. 255]. The commonest is the $22^{\circ}$ diameter halo. Somewhat rarer is a $46^{\circ}$ counterpart. Parhelia are bright patches of light on either halo at the same elevation as the sun itself. There can be one or two parhelia for each halo.


On occasion parhelia may be visible while the halo is not. The present case probably involves a single parhelion $11^{\circ}$ from the sun.
8. See on C217, 14. One of the few prodigia where the time of occurrence (day or night) is actually stated. Despite the unaccustomed 'precision', diagnosis is all but impossible.
9. See on C214, 12.
10. See on C217, 16.
11. See on C218, 4.

## C. Expiation

While a source of great alarm, the extinction of Vesta's fire was not a prodigy. Human carelessness did not signify a breach of the pax deorum, even if its consequence, like prodigia, might be deemed to require expiation.

## Consuls: P. Cornelius Scipio (Africanus), P. Licinius Crassus Dives.

LIVY, 29,10.4-5:
civitatem eo tempore repens religio invaserat invento carmine in libris Sibyllinis propter

1. crebrius eo anno de caelo lapidatum
inspectis, quandoque hostis alienigena terrae Italiae bellum intulisset, eum pelli Italia vincique posse, si mater Idaea a Pessinunte Romam advecta esset. id carmen ab decemviris inventum eo magis patres movit quod et legati qui donum Delphos portaverant referebant et sacrificantibus ipsis Pythic Apollini omnia laeta fuisse et responsum oraculo editum maiorem multo victoriam quam cuius ex spoliis dona portarent adesse populo Romano.

## Translation:

At that time religious scruples suddenly pervaded the citizen body because in the Sibylline books, which had been consulted on account of

1. frequently repeated falls of stones within the year
[the verses were to the effect that] at whatever time an enemy born in another country had brought war to the land of Italy, he could be driven out of italy and conquered if the Idaean Mother should have been conveyed from Pessinus to Rome. That group of verses discovered by the Xviri struck the senators all the more because at the same time the diplomatic mission which had carried a gift to Delphi were reporting both that when they sacrificed to Pythian Apollo the outcome had been favourable and that the reply had been given by the oracle to the effect that a victory much greater than the one from the spoils of which they were bearing gifts was at hand for the Roman people.

## Comments:

## A. Context

No processing and expiation of prodigia is recorded for the period between the entry of the consuls into office (Livy, 28,28.12) and their departure for their provinces (28.46). Evidently the authorities had been propelled, for whatever reason, towards total culling of reports of unusual phenomena submitted between the processing of prodigia early in C206 and the Ides of March C205.

Towards the end of the year, when the time for electing the new consuls was approaching (Livy, 29,10.1), a prolonged sequence of showers of stones, whose location is not specified, eventually dictated an extraordinary flurry of emergency expiatory activity.

## B. Prodigy

1. See on $\mathrm{C} 218,8$.

## C. Expiation

The normal approach to a shower of stones was, to repeat, a novendiale, a nine-day expiatory period involving cessation of public business. Strictly, each and every shower of stones required such a nostrum. A prolonged series of showers, therefore, confronted the State, consequently, with a potentially massive administrative problem. One reason for resort to the Sibylline books, deep into C205, may have been concern
to avoid such inconvenience. A possible contributory factor towards a novel approach to a familiar phenomenon was a feeling that over-zealous culling of prodigial reports for the greater part of C206 had offended the gods and so was to some degree responsible for the manifestations that now confronted the State.

The recommended importation of the cult and cult image of the Idaean Mother, Cybele, from Pessinus, near the border of Galatia and 128 km from Ancyra, precursor of Ankara, the capital of modern Turkey, fitted in with a contemporary Zeitgeist conducive to increasing religious pluralism and hence the incorporation of compatible foreign cults into Roman life.

## Consuls: M. Cornelius Cethegus, P. Sempronius Tuditanus.

LIVY, 29,14.1-4:
quamquam nondum aperte Africa provincia decreta erat - occultantibus id, credo, patribus ne praesciscerent Cartheginienses - tamen in eam spem erecta civitas erat, in Africa eo anno bellatum iri finemque bello Punico adesse. impleverat ea res superstitionum animos, pronique et ad nuntianda et ad credenda prodigia erant. eo plura volgabantur:

1. duos soles visos
2. et nocte interluxisse
3. et facem Setiae ab ortu solis ad occidentum porrigi visam
4. Tarracinae portam
5. Anagniae et portam et multis locis murum de caelo tactum
6. in aede lunonis Sospitae Lanuvi cum horrendo fragore strepitum editum
eorum procurandorum causa diem unum supplicatio fuit, et novendiale sacrum, quod
7. de caelo lapidatum esset
factum.

## Translation:

Although the province of Africa had not been openly decreed, kept secret by the senators, I think, so that the Carthaginians might not know beforehand, nevertheless citizens were lifted in the hope that the war would be waged that year in Africa, and that the end of the Punic war was imminent. This situation had filled minds with superstitious expectations and they were conditioned both to report and to believe prodigies. Accordingly, rather a lot were publicly circulated:

1. two suns were observed
2. and a light had shone at night
3. at Setia a torch was observed extended from east to west
4. at Tarracina a city-gate had been hit from the sky
5. at Anagnia both a gate and the wall in many places had been hit from the sky
6. in the temple of Juno Sospita at Lanuvium a noise was emitted with a dreadful crashing

For the purpose of expiating the above, there was a supplicatio for one day, and because
7. there had been a falling of stones from the sky
a sacred novendiale was performed.

Comment:

## A. Context

The seven prodigies were processed shortly after the consuls took office $(29,13.1)$. A further shower of stones at the end of the year, after the extraordinary emergency expiation of a prolonged series, must have been daunting. It is likely, but not necessarily the case, that all the items in the group were reported late in C205, after the stone showers that prompted recourse to the Sibylline books. It is not out of the question that some of the prodigies concerned were observed earlier but that their processing was held over to the normal time. If so, unlike the chain of showers of stone, they were not considered to merit extraordinary prioritization. Given the climate created by the showers, one might expect reports of prodigies in general to have escalated. It may be that a fair amount of judicious culling was employed to achieve reduction to seven.

## B. Prodigies

1. See on C206, 7.
2. See on C217, 14.
3. Most of the MSS read stellae after facem. A place name has to be restored and Setiae is the obvious correction. At Quaestiones Naturales, 1,1.11-12, Seneca spells out that faces, torches, are transitory phenomena. They race across (transcurrunt) the sky and on occasion are bright enough to be visible in daylight. Fax, then, connotes a bright meteoric fireball or bolide. At de Natura Deorum, 2.14, Cicero carefully

distinguishes faces from cometae, comets.
Large fireballs leave a luminous trail in their wake which on occasion lingers and persists long after the body itself has disintegrated. The tense of the infinitive porrigi suggests that such may have been the case with the fireball observed from Setia.

4 and 5. See on C214, 10.
6. See on C213, 4.

## C. Expiation

The expiations this year appear to have been fairly formulaic, following those prescriptions that had been made earlier for similar occurrences.

## Consuls: Cn. Servilius Caepio, C. Servilius Geminus.

LIVY, 30,2.9-13:
praetores in provincias ire iussi: consulibus imperatum ut priusquam ab urbe proficiscerentur ludos magnos facerent quos T. Manlius Torquatus dictator in quintum annum vovisset si eodem statu res publica staret. et novas religiones excitabant in animis hominum prodigia ex pluribus locis nuntiata.

1. aurum in Capitolio corvi non lacerasse tantum rostris crediti sed etiam edisse
2. mures Antii coronam auream adrosere
3. circa Capuam omnem agrum locustarum vis ingens, ita ut unde advenissent parum constaret, complevit
4. eculeus Reate cum quinque pedibus natus
5. Anagniae sparsi primum ignes in caelo, dein fax ingens arsit
6. Frusinone arcus solem tenui linea amplexus est, circulum deinde ipsum maior solis orbis extrinsecus inclusit
7. Arpini terra campestri agro in ingentem sinum consedit
8. consulum alteri primam hostiam immolanti caput iocineris defuit
ea prodigia maioribus hostiis procurata; editi a collegio pontificum dei quibus sacrificaretur.

## Translation:

The consuls were ordered before they should leave from the city to conduct the Great Games that T. Manlius Torquatus had vowed as dictator for the fifth year in the case that the republic should remain in the same state. Prodigies reported from many places excited new religious fears in the minds of men.

1. Ravens were believed not only to have torn away gold in the Capitoline temple but even to have eaten it
2. at Antium mice gnawed a golden wreath
3. around Capua an enormous number of locusts covered the whole countryside; because of the quantity there was little agreement whence they had come
4. at Reate a colt with five feet was foaled
5. at Anagnia at first fires were scattered in the sky and then a huge torch blazed out
6. at Frusino a halo encircled the sun with a thin line, and then a greater circle outside enclosed the circle itself
7. at Arpinum the earth sank into a huge cavity in a flat part of the countryside
8. in the case of one of the consuls sacrificing the first victim the head of the liver was missing

These prodigies were expiated by full-grown victims; the gods to whom sacrifice should be made were declared by the college of the pontiffs.

## Comments:

## A. Context

Before being released to their provinces, the consuls were instructed by the Senate to expiate the prodigies that had been gathered between early C204 and their entry into office.

## B. Prodigies

1. See on C218, 5 and $\mathrm{C} 208,2$. The gold concerned was presumably gilding.
2. See on C208, 2.
3. Pliny (N.H. 11,104) observes that locust plagues are interpreted as a sign of the gods' wrath (deorum irae). Such a concept is further supported by the inability of people to say from where the swarm had come, accentuating its almost other worldliness.

4. See on C210, 6. One of the MSS has Romae here instead of Reate. The balance of probability favours the latter.
5. A meteor shower which eventually featured a large bright bolide. The seismically obsessed Tributsch (1983) p. 199, diagnoses earthquake lights! If the shower concerned were the conspicuous Lyrids, the observation would have been made on the 13th of April (= March 25, 204 BCE proleptic julian) of the Republican calendar. There are, of course, other possible identifications.
6. Solis is incomprehensible in a way that is compatible with both grammar and any possible arrangement in the sky. Clearly it is an intrusion by a scribe. The phenomenon is clearly an example of both the $22^{\circ}$ and $46^{\circ}$ halos visible at the same time.

7. The identification of this phenomenon is a difficult one, especially for the nonspecialist. There is a number of possible explanations, but the one that stands out as the more likely is that a solution or collapse doline developed in an area of karst.

As Selby (1985), p. 303, informs us, "karst landforms are characterized primarily by underground drainage in areas of massive limestone, and the formation at the ground surface of hollows and pits where water enters the rock and enlarges joints and fissures by solution." Although solution is not a dominant process in karst, its most critical effect is in the enlargement of voids. The more water that passes through the rock, the greater the voids become to form caves, the predominant feature of karstland.

Limestone is defined as rock consisting of at least $50 \%$ carbonate materials. Calcite $\left(\mathrm{CaCO}_{3}\right)$ is the most common form, others being aragonite, dolomite and magnesium carbonate. Calcite and dolomite $\left(\mathrm{CaMg}\left(\mathrm{CO}_{3}\right)_{2}\right)$ are both soluble in water containing dilute carbonic acid $\left(\mathrm{H}_{2} \mathrm{CO}_{3}\right)$ which is derived by solution of $\mathrm{CO}_{2}$ from the air and its reaction to water [Selby (1985) p. 304].

Dolines, again as Selby notes (1985), p. 309, are "closed hollows which are well-, cone-, or bowl-shaped, with rocky or vegetated sides, circular or elliptical platforms and dimensions of $2-100 \mathrm{~m}$ depth and $10-1000 \mathrm{~m}$ diameter." In the case of solution dolines, pronounced solution occurs at favourable spots, such as major joints. The solutes move along the solution-widened fissures, ever increasing the size of the doline, though this process appears to be a slower one than could be expected to have occurred to judge by the prodigy report. The other option which will be mentioned here, though several other possibilities exist (space does not allow for an examination of each), is the collapse doline. These occur as the result of a sudden collapse of a cave roof. It leaves an almost vertically walled shaft, often of significant depth and width.

Italy has a wide distribution of carbonate rocks and therefore development to some degree or other of karst phenomena is present in all regions. Arpinum, the location of the sudden depression, is on the edge of a karst area, not so far from one of the main Italian caves, Pastena Cave. It is then extremely likely that this prodigy was a result of a solution of carbonic acid eating through limestone and creatirg some form of doline.
8. The most commonly practised form of divination by the Etruscan haruspices was the inspection of the organs of sacrificial victims, in particular hepatoscopy, examination of the liver. There were demarcated bronze livers which assisted in the interpretation of those of the victims, which were closely scrutinized with respect to colour, markings, and shape. If there were any irregularities apparent in these real livers, the corresponding
 part of the bronze liver would show which deity was in control of that section of the sky linked to that faulty section [SCULLARD (1981), p. 29].

## Consuls: M. Servilius Geminus, Ti. Claudius Nero.

LIVY, 30,38.6-10:
Romae ad nuntium primum rebellionis Carthaginiensium trepidatum fuerat, iussusque erat Ti . Claudius mature classem in Siciliam ducere atque inde in Africam traicere, et alter consul M. Servilius ad urbem morari, donec quo statu res in Africa essent sciretur... prodigia quoque nuntiata sub ipsam famam rebellionis terrorem attulerant:

1. Cumis solis orbis minui visus
2. et pluit lapideo imbri
3. et in Veliterno agro terra ingentibus cavernis consedit, arboresque in profundum haustae
4. Ariciae forum et circa tabernae,
5. Frusinone murus aliquot locis et porta de caelo tacta
6. et in Palatio lapidibus pluit
id prodigium more patrio novendiali sacro, cetera hostiis maioribus expiata.
inter quae etiam aquarum insolita magnitudo in religionem versa nam ita abundavit Tiberis ut ludi Apollinares, circo inundato, extra portam Collinam ad aedem Erycinae Veneris parati sint. ceterum ludorum ipso die subita serenitate orta pompa duci coepta ad portam Collinam revocata deductaque in circum est cum decessisse inde aquam nuntiatum esset; laetitiamque populo et ludis celebritatem addidit sedes sua sollemni spectaculo reddita.

## Translation:

At Rome upon the first news of the Carthaginians' renewed hostilities there had been alarm, and Tiberius Claudius had been ordered to take his fleet promptly to Sicily and then to cross to Africa, and the other consul, Marcus Servilius, to remain near the city until it should be known what was the state of affairs in Africa... At the very time of the rumours of rebellion, the reported predigies too brought terror.

1. at Cumae the orb of the sun was seen to be diminished
2. and it rained with a shower of stones
3. in the countryside of Velitrae the ground sank creating huge depressions, and trees were swallowed into the depths
4. at Aricia the forum and shops around it
5. at Frusino the city wall at a number of places and a gate were hit from the sky
6. on the Palatine it rained with stones

That last portent was atoned for by a sacred novendiale according to ancestral custom, the rest by full-grown victims.

While expiation was proceeding, an unusual volume of water also became a matter of religious concern. The Tiber overflowed to such an extent that the Ludi Apollinares were organized outside the Colline gate in the area of the temple of Venus of Eryx, the circus having flooded. On the very day of the games with a sudden emergence of fine weather, the procession began to be led to the Colline gate was called back and conducted to the circus when it had been announced that the water had retreated from there: and its proper location restored to the solemn procession contributed popular joy and a large audience for the games.

## Comments:

## A. Context

Hannibal had finally removed himself and his men from Italy after a presence of some sixteen years. This left the Roman people in a state both of hope and anxiety. Scipio and Hannibal were to meet each other in Africa for what turned out to be the final battle. Livy chooses to relate the account of the battle of Zama and then flash back to earlier events at Rome, including the processing of aggregated prodigies by the incoming consuls.

## B. Prodigies

1. Marchetti (1973), pp. 484f, is of the opinion that the partial solar eclipse referred to is that of 19th October, 202 BCE proleptic julian, which on my reconstruction of the calendar coincided with 3rd December of the Roman republican calendar. The fact that the magnitude of the eclipse at Cumae was never greater than $5-6 \%$ completely rules out an identification which also makes no calendrical sense. Since the prodigy was processed early in the consular year at a meeting of the Senate chaired by the new consuls, the eclipse occurred in C203. The obvious, and only, candidate is that of 6th May, 203 BCE proleptic julian, which coincided with 5th Junius of the Roman republican calendar. Viewed from Cumae, the 6th May, 203 BCE eclipse reached a magnitude of $35-38 \%$. Given conducive weather conditions, for example, nonexcessive cloudiness, this could well have been observable, even though culmination took place in the early afternoon with the sun still relatively high in the sky.

2 and 6. See on C218, 8. At 2, Livy has modified the language of the pontifical chronicle in order to avoid repetition.
3. This prodigy could be the result of a similar phenomenon already described at C203,7. The only possible objection is that Velitrae is situated in an area not of carbonate rocks but rather of volcanic tuffs. Yet, as Jennings (1987), p. 3, observes, "There is pseudokarst in young volcanic regions. Very long and even

comparatively complex tunnel caves develop where the lavas are very fluid; to form them several mechanisms operate. There are other smaller caves in young volcanic provinces of quite different origin (e.g. gas bubbles, vent shafts). Collapse depressions and natural bridges develop from these caves. This complex has been called volcanokarst."
4. See on C214, 7.
5. See on $\mathrm{C} 214,10$.

Despite the religious fears it evoked, the flood of the Tiber was not treated as a prodigy, even given its great extent. Floods were not unusual phenomena. Indeed, in the case of the Tiber, they were routine. A major later example is referred to by Horace at Odes 1,2.13-20:
> vidimus flavum Tiberim, retortis
> litore Etrusco violenter undis, ire deiectum monumenta regis templaque Vestae,

Iliae dum se nimium querenti
iactat ultorem, vagus et sinistra
labiture ripa, Iove non probante, $u x$ orius amnis.
(We saw the yellow Tiber, its waves hurled back in fury from the Tuscan shore, advance to overthrow the King's Memorial [Regia] and Vesta's shrines, showing himself too ardent an avenger of complaining llia, and spreading far and wide over the left bank without Jove's sanction - fond river-god).

According to Pliny, N.H. 3,55 , the floods were warningly prophetic, a call to religion rather than a threat of disaster (quin immo vates intellegitur potius ac monitor, auctu semper religiosus verius quam saevus).

The temple of Venus of Eryx was built in 181 bCE. Livy's reference to it, then, is by way of topographic assistance to his contemporary readers.

The Apolline Games were celebrated in July.

## C. Expiation

It is odd that only the shower of stones on the Palatine is expiated in the usuai fashion. Possibly the impression given by Livy is false and a single novendiale was deemed to expiate both showers. The loss of 18 days on which public business could be transacted was considered unacceptable.

## Consuls: Cn. Cornelius Lentulus, P. Aelius Paetus.

Livy includes no processing of prodigia in his account of the events of this year, which begins at 30,40 and ends at 31,4 .

C201 was the year as Livy heavily emphasizes $(30,1.1)$ which marked completion of the Second Punic War. Might one speculate that euphoric conviction that the gods were now comprehensively on their side led the authorities at Rome to dismiss as spurious or irrelevant reports of phenomena that at other times might be construed as negatively portentous?

## Consuls: P. Sulpicius Galba, C. Aurelius Cotta.

LIVY, 31,1-2; 12.5-10:
Litterae... in senatu recitatae sunt ... pecuniam Locris ex Proserpinae thensauris nocte item sublatam... (2) indique passus senatus non cessari ab sacrilegiis...
curam expiandae violationis eius templi prodigia etiam sub idem tempus pluribus locis nuntiata accenderunt.

1. in Lucanis caelum arsisse adferebant
2. Priverni sereno per diem totum rubrum solem fuisse
3. Lanuvi in templo Sospitae lunonis nocte strepitum ingentem exortum
iam animalium obsceni fetus pluribus locis nuntiabantur:
4. in Sabinis incertus infans natus, masculus an femina asset
5. alter sedecim iam annorum item ambiguo sexu inventus
6. Frusinone agnus cum suillo capite
7. Sinuessae porcus cum capite humano natus
8. in Lucanis in agro publico eculeus cum quinque pedibus
foeda omnia et deformia errantisque in alienos fetus naturae visa; ante omnia abominati semimares, iussique in mare extemplo deportari, sicut proxime C. Claudio M. Livio consulibus deportatus similis prodigii fetus erat. nihilo minus decemviros adire libros de portento eo iusserunt. decemviri ex libris res divinas easdem quae proxime secundum id prodigium factae essent imperarunt. carmen praeterea ab ter novenis virginibus cani per urbem iusserunt donumque Iunoni reginae ferri. ea uti fierent, C. Aurelius consul ex decemvirorum responso curavit. carmen, sicut patrum memoria Livius, ita tum condidit P. Licinius Tegula.

## Translation:

Letters were read in the Senate, stating that money had been secretly removed at night from the temple of Proserpine at Locri... The Senate was indignant that such sacrileges should continue to be committed..
The prodigies that had been announced from many places in the same general period of time kindled the concern for expiating the violation of the temple.

1. people were bringing news that the sky had been on fire amongst the Lucani
2. at Privernum the sun was red throughout a whole day in clear weather
3. at Lanuvium, in the temple of Juno Sospita, at night a mighty noise arose

In due course, loathsome offspring of animals were reported from many places:
4. among the Sabines, a child of uncertain sex, whether male or female, was born
5. another was discovered, already sixteen years old, where sex was likewise ambiguous
6. at Fyusino a lamb with a swine's head
7. at Sinuessa a pig with a human head w'as born
8. among the Lucani, in ager publicus, a foal was born with five feet

All these things were viewed as foul and deformed and as manifestations of nature's wandering into unnatural forms of parturition. Above all the semi-males were regarded as abominations, and it was ordered that they be removed to the sea immediately, as had been done only a very short while ago with Gaius Claudius and Marcus Livius consuls, when a similar monstrosity was carried away. Nevertheless, they ordered the Xviri to approach the books about this portent. The Xviri on the basis of the books, ordered the same religious rites which had been carried out a very short while ago with respect to the same prodigy. In addition, they ordered a liymn be sung throughout the city by three times nine virgins, and they ordered that a gift be presented to Queen Juno. Gaius Aurelius the consul ensured that these things should be done on the basis of the response of the Xviri. As for the hymn, just like Livius in the memory of the senators, so on this occasion Publius Licinius Tegulus composed it.

## Comment:

## A. Context

The prodigies were processed by the incoming consuls $(31,5)$ prior to their departure for their provinces $(31,14)$. The reports concerned had been accumulated between the entry into office of the consuls of C201 and those of the present year. At
least three of the phenomena ( 6,7 , and 8 ) are likely to have been noted some months before the commencement of C200.

## B. Prodigies

1. In Lucanis: slipshod Latin from a purist perception. Cf. 8.

Lack of information regarding the time of the its occurrence hampers accurate diagnosis of the phenomenon, Tributsch (1983), pp. 145ff, naturally asserts that this, and the following two prodigies, involve precursors of earthquakes. Whilst this could be conceivable, it is more

likely that the Lucanians witnessed an aurora, rare in minauroral latitudes and therefore likely to excite alarm. See on C217, 14.
2. See on C212, 8.
3. See on C213, 4.

4 and 5. See on C214, 14. That these were regarded as semi-males (semimares) implies that their maleness was slightly more obvious than in previous cases.
6. See on $\mathrm{C} 210,1$. The preferential time for the birth of lambs, to reiterate, was autumn (Varro, Rust. 2,2.13-14).
7. See on $\mathrm{C} 210,6$. Pigs were mated, to repeat, between February and the vernal equinox (Varro, Rust. 2,4.7; Columella, 7,9.3). Furrowing was four months later.
8. See on C203, 4.

## C. Expiation

Altinough the hermaphrodite was dealt with in the same manner that the haruspices had prescribed some seven years earlier, the pontifices consulted the Sibylline books and prescribed again the measures that they had prescribed earlier. In C207, whilst in the process of expiating the dire prodigy of an hermaphrodite, lightning had struck the tenip: of Juno. The remembrance of the occurrence may very well have prompted the offering in C200 to Juno. Juno Lucina, whose temple was on the Esquiline, was especially the goddess of women and childbirth and so it may be thought that she, rather than Juno in her guise as Regina, would be the one to receive offerings to induce her to ensure only normal children be born, yet Juno Regina, who is generally depicted as wearing a goat's-skin with the head and horns forming a helmet, and carrying a shield and spear, as Scullard observes (1981), p. 71, "may originally have been a fertility goddess, who later assumed warrior attributes as protectoress of the city." This prodigy was interpreted as a great evil, something that had to be expunged from

Italian land. Naturally, then, appeal would be made to the deity who was associated both with fertility and the protection of Rome.

## Consuls: L. Cornelius Lentulus, P. Villius Tappulus.

LIVY, 32,1.1 and 9-14 and 3.1:
consules praetoresque, cum idibus Martiis magistratum inissent, provincias sortiti sunt... feriae Latinae pontificum decreto instauratae sunt quod legati ab Ardea questi in senatu erant sibi in monte Albano Latines carnem, ut adsolet, datam tion esse.

1. ab Suessa nuntiatum est duas portas quodque inter eas muri erat de caelo tactum
2. et Formiani legati aedem Iovis
3. item Ostienses aedem Iovis
4. et Veliterni Apollinis et Sancus aedes
5. et in Herculis aede capillum enatum
6. et ex Bruttiis ab Q. Minucio propraetore scriptum eculeum cum quinque pedibus
7. pullos gallinaceos tres cum ternis pedibus natos esse
8. a P. Sulpicio proconsule ex Macedonia litterae adlatae, in quibus inter cetera scriptum erat lauream in puppi navis longae enatam
priorum prodigiorum causa senatus censuerat, ut consules maioribus hostiis, quibus diis videretur, sacrificarent; ob hoc unum prodigium haruspices in senatum vocati, atque ex responso eorum supplicatio populo in diem unum indicta et ad omnia pulvinaria res divinae factae.
rebus, quae Romae agendae erant, perfectis consules in provincias profecti.

## Translation:

The consuls and praetors, having entered upon their offices on the Ides of March, drew lots for provinces... The Latin festival was repeated by decree of the pontifices because representatives from Ardea had complained in the Senate that the flesh of the animals sacrificed on the Alban mount had not been supplied to them in accordance with custom.

1. news came from Suessa that two gates and part of the wall that was between them had been hit from the sky
2. a mission from Formiae reported likewise with respect to their tempie of Jupiter
3. so, too, Ostians reported with respect to their temple of Jupiter
4. so, too, yet again the men of Velitrae, with respect to their temples of Apollo and Sangus
5. the Veliterni also reported that filaments had grown in the temple of Hercules
6. from Bruttium it was written by Quintus Minucius the propraetor that a five-legged colt had been born
7. and also three chicks of hens each with three legs
8. letters were conveyed from Macedonia, from the proconsul Publius Sulpicius, in which, among other things, it was written that a laurel had sprouted from the stern of a war-ship

On account of the first group of prodigies, the senate had decreed that the consuls should sacrifice full-grown victims to whatever gods it should seem appropriate. In respect of the single final prodigy haruspices were summoned to the senate. On the basis of their response, a supplicatio was proclaimed to the people for one day and at all pulvinaria sacrificial rites were performed.
When they had completed the duties that had to be performed at Rome, the consuls set out for their provinces.

## Comments:

## A. Context

Anxious to leave for their provinces as soon as possible the consuls ensured that the Latin Festival, one of the moveable feriae conceptivae, was held almost immediately after they took office. Unfortunately, their intended speed of departure was frustrated by the complaint of the representatives from Ardea. At the festival, jointly celebrated by the states of the one time Latin League and Rome, white steers were sacrificed to Jupiter Latiaris. The flesh of the animals was subsequently distributed among all the participating states. Somehow in C199 the Ardeates were left out.

Although the prodigies and their expiations are dealt with by Livy after his account of the duplication of the Latin Festival, it does not follow that the consuls did not turn their attention to the accumulated prodigial reports until after the festival's repetition. Livy reports matters of religious interest in order of importance rather than in strict chronological sequence. Having noted the remarkable circumstances in connexion with the Latin Festival, he backtracks to the prodigia.

## B. Prodigies

1. See on C214, 10.

2, 3, and 4.See on C218, 4.
5. Krauss (1930), p. 176, translates capillum as hair, and in a footnote suggests that this had appeared on the head of the cult statue. In the text he says, "the wind probably deposited on the statue's head several layers of dust containing fungi, which upon sprouting formed a mould that somewhat resembled a covering of hair. The persons who imagined that these events had actually occurred would naturally conclude that the power of the gods was at work in their representations to make their wishes known." It really would have been a prodigy if fungi-laden dust had landed solely on Hercules' head and not on his shoulders or any other parallel plane! I have chosen to translate capillum as filaments, as in the fibres of plants (see Columella, 10,167). There is no indication in the Livian text as to the location of the growth. The altar and its surrounds are obvious candidates and the statue too may have been affected. Seeds
dropped by birds, spores blown in by the wind; or grains fallen from offerings: any of these could have sprouted and created the appearance of unwonted threads.
6. See on C211, 6. Since C199 commenced on January 4th, 199 BCE proleptic julian, the horse should have been born the previous consular year, most likely close to the spring equinox (see Varro, Rust. 2,7.7).

8. Similar to 5 ; seeds must have been dropped, probably by birds, and set root in the wood and, no doubt, dirt of the stern.

## C. Expiation

The haruspices were called in to deai with the final prodigy, presumably because the Sibylline books and past pontifical records contained no precedent for this phenomenon so that the appropriate expiatory rites were unavailable.

# Consuls: Sex. Aelius Paetus, T. Quinctius Flamininus. 

LIVY, 32,9.1-4:
consulem T. Quinctium ita habito dilectu, ut eos fere legeret, qui in Hispania aut Africa meruissent, spectatae virtutis milites, properantem in provinciam prodigia nuntiata atque eorum procuratio Romae tenuerunt.

1. de caelo tacta erant via publica Veis
2. forum et aedes Iovis Lanuvi
3. Herculis aedes Ardeae
4. Capuae murus et turres et aedes quae Alba dicitur
5. caelum ardere visum erat Arreti
6. terra Velitris trium iugerum spatio caverna ingenti desederat
7. Suessae Auruncae nuntiabant agnum cum duobus capitibus natum
8. et Sinuessae porcum cum humano capite
eorum prodigiorum causa supplicatio unum diem habita, et consules rebus divinis operam dederunt placatisque dis in provincias profecti sunt.

## Translation:

When the consul Titus Quinctius had conducted his levy in such a way to choose soldiers of proven excellence who had served in Spain and Africa and was in a hurry to leave for his province, the prodigies which had been reported and their expiation held him back.

Hit from the sky were

1. a public highway at Veii
2. the forum and the temple of Jupiter at Lanuvium
3. the temple of Hercules at Ardea
4. the wall and towers and the so-called "White" temple at Capua
5. at Arretium the sky had seemed to be ablaze
6. the earth subsided in a great cavern three iugera in extent at Velitrae
7. at Suessa Aurunca men said that a two-headed lar:b was born
8. and at Sinuessa a pig with a man's head

By reason of these prodigies a one-day supplicatio was proclaim. .., and the consuls attended to the sacrifices and, having appeased the gods, departed to their provinces.

## nments:

## A. Context

The entry of the two consuls upon office is noted at $32,8.1$. Flamininus was especially eager to leave Rome for his province and found the processing and expiation of accumulated prodigies and irksome impediment to departure.
B. Prodigies

1. See on C214, 9 .

2, 3, and 4.See on C218, 4.
5. See on C200, 1 .
6. See on $\mathrm{C} 202,3$. A iugerum is a square measure roughly equivalent to a hectare.
7. See on C210, 1. In normal circumstances the birth would have occurred in autumnal period of C199.

8. See on C210, 6. The birth of the animal should have taken place in May, 199 BCE proleptic julian. The equivalent month in the now seriously deranged republican calendar n'as Quintilis.

## C. Expiation

None of the prodigies this year was unusual in that it had not occurred before. Consequently there was no need for new rites to be decreed, nor for either the haruspices or the Sibylline books to be consulted.
$\mathrm{C} 197=15 / 12 / 198-3 / 12 / 197$ BCEJ

## Consuls: C. Cornelius Cethegus, Q. Minucius Rufus.

LIVY, 32,29.1-2:
priusquam consules praetoresque in provincias proficisserentur, prodigia procurari placuit, quod 1 aedes Vulcani Summanique Romae
2. et quod Fregenis murus et porta de caelo tacta erant
3. et Frusinone inter noctem lux orta
4. et Aefulae agnus biceps cum quinque pedibus natus
5. et Formiis duo lupi oppidum ingressi obvios aliquot laniaverant
6. Romae non in urbem solum sed in Capitolium penetraverat lupus

## Translation:

Before the consuls and praetors could set out for their provinces, provision was made for expiation of the prodigies:

1. at Rome the temples of Vulcan and Summanus had been hit from the sky
2. and at Fregenae the wall and a gate
3. at Frusino a light had appeared during the night
4. at Aefula a two-headed lamb wit. c:... feet had been born
5. at Formiae two wolves, entering the town, savaged several people that they encountered
6. at Rome a woff had not only entered into the city but even got as far as the Capitoline

## Comments:

## A. Context

These six prodigies were processed by the consuls of 197 between their entry upon office and their departure to their respective provinces. They are an aggregate of those reported and accepted for expiation between early C198 and early C197.

## B. Prodigies

1. See on C218, 4.
2. Some of the MSS offer Fregellis instead of Fregenis. The latier is preferable given its relative obscurity. See on C214, 10 .
3. One of the very small number of prodigies specifically recorded as having occurred at night. See on C217, 14.

4. The position of Aefula is unknown though speculated to be south of the Tiber. Kreyssig proposed replacement with Aesulae. See on C210, 1. The lamb will have been born in the spring months of C198.

5 and 6 . See on $\mathrm{C} 218,10$. The wolves' unusual behaviour would have been dictated by extreme hunger due to inavailability of normal food source. The most likely time is winter which may have been especially severe across 198 and 197 proleptic julian.
C. Expiation

Livy provides no mention of the means of expiation. One may safely conclude that no unconventional procedures were involved.

## Consuls: L. Furius Purpurio, M. Claudius Marcellus

LIVY, 33,26.6-9
priusquam aut hi praetores ad bellum prope novum, quia tum primum suo nomine sine ullo Punico exercitu aut duce ad arma ierant, proficiscerentur, aut ipsi consules ab urbe moverent, procurare ut adsolet prodigia quae nuntiabantur iussi.

1. P. Villius eques Romanus in Sabinos proficiscens fulmine ipse equasque exanimati fuerant
2. aedes Feroniae in Capenati de caelo tacta erat
3. ad Monetae duarum hastarum spicula arserant
4. lupus Esquilina porta ingressus, frequentissima parte urbis cum in forum decurrisset, Tusco vico atque inde Cermalo per portam Capenam prope intactus evaserat
haec prodigia maioribus hostiis sunt procurata.

## Translation:

Before either these praetors departed for a war neaily new, because for the first time the Spaniards, without any Punic army or leader had taken to arms on their own account, or the consuls themselves moved from the city, they were ordered to expiate, as usual, the prodigies that had been announced.

1. P. Villius, a Roman eques, travelling in the Sabine territory bad been deprived of his life by lightning, together with his horse
2. the temple of Feronia in Capena was hit from the sky
3. at the temple of Moneta the points of two spears had burned
4. a wolf entered by the Esquiline Gate; when it had run through the most crowded part of the city to the Forum, it proceeded by way of the Tuscan quarter and then the Cermalus and finally left the city uninarmed through the Capenan Gate

These prodigies were expiated with full-grown victims.

## Comments:

## A. Context

The consuls of 196 , whose entry upon office is noted at $33,25.4$, were ordered to expiate these prodigies prior to their setting out for their various theatres of war. The prodigies were an aggregate of those reported between early C197 and the entry into office of the consuls of C196.

## B. Prodigies

1. See on $\mathrm{C} 217,5$. This may have been interpreted as divine disapproval of the conduct of the equites as a class, rather than a judgement sent down on one man.
2. See on C218, 4 .
3. See on C217, 1.
4. See on C218, 10 and C197, 5 and 6. Given a further victim of starvation, the incident is most likely to have occurred during the winter of 197/196 proleptic julian.
C. Expiation

A routine expiation is intimated by Livy's brief notice.

## C195 $=24 / 11 / 196-13 / 11 / 195$ вСЕЈ

## Consuls: L. Valerius Flaccus, M. Porcius Cato.

No processing and expiation of prodigies is featured in Livy's account of the consular year events. It is possible that massive preoccupation of the secular authorities and the pontifices with implementation of the Sacred Spring ceremony vowed in C217 (LIVY 22,9.10-10.6; $33,34.2 ; 34,44.1$ ) led to the eclipse of more routine religious activities. Part of such a syndrome could have been disregard or dismissal of all prodigial reports accumulated since early C196.

The Sacred Spring ceremony involved the sacrifice of all domestic animals born between the first days of March and May by the republican calendar. Conveniently, due to the dislocation of the calendar, the technical spring months of March and April coincided with winter.

# Consuls: P. Cornelius Scipio (Africanus), Ti. Sempronius Longus. 

LIVY, 34,43.1; 44.1-3; 44.6; 45.6-8:


#### Abstract

principio anni quo P. Scipi) Africanus iterum et Ti. Sempronius Longus consules fuerunt... ver sacrum factum erat priore anno... cum P. Licinius non esse recte factum... patribus renuntiasset, de integro faciendum arbitratu pontificum censuerunt... ver sacrum videri pecus quod natum esset inter Kal. Martias et pridie Kal. Maias P. Cornelius et Ti. Sempronio consulibus... ver sacrum ludique Romani votivi... facti... prodigia quoque alia visa eo anno Romae sunt, alia nuntiata.


1. in foro et comitio et Capitolio sanguinis guttae visae sunt
2. et terra aliquotiens pluvit
3. et caput Vulcani arsit
4. nuntiatum est Nare amni lac fluxisse
5. pueros ingenuos Arimini sine oculis ac naso
6. et in Piceno agro non pedes, non manus habentem natum
ea prodigia ex pontificum decreto procurata. et sacrificium novendiale factum est, quod
7. Hadriani nuntiaverant in agro suo lapidibus pluvisse

## Translation:

At the beginning of the year in which P . Scipio Africanus and Ti. Sempronius Longus were consuls... The Sacred Spring had been celebrated in the previous year... Since Publius Licinius the pontifex maximus had announced to the Senate that it had not been correctly performed, the fathers voted that it should be celebrated again under pontifical supervision... The 'Sacred Spring' was defined as all domestic animals born between the Kalends of March and the Kalends of May within the consulship of P. Scipio and Ti. Sempronius... The Sacred Spring and votive Roman Games were celebrated...
That year prodigies were both witnessed ar Rome and reported from other places.

1. in the Forum and the comitium and on the Capitoline drops of blood were seen
2. it rained several times with earth
3. the head of Vulcan burned
4. it was announced that milk had flowed in the river Nar
5. at Ariminum a free-born boy without eyes or nose was born
6. and in the ager Picenus another without feet or hands

These prodigies were expiated by order of the pontifices, and a novendiale was perfned because
7. the Hadriani had announced that in their territory it had rained with stones

## Comments:

## A. Context

No processing and expiation of prodigies at the beginning of the consular year is recorded. The necessity of repeating the onerous and complex Sacred Spring ceremony may have largely been responsible for disregard or dismissal of all prodigial reports aggregated between early C195 and the Ides of March C194. Advance effects on former of the Sacred Spring's renewal would again be palliated by coincidence of the technical spring months of March and April with winter.

Sometimes after the repetition of the Sacred Spring ceremony a batch of prodigial reports was accepted and expiated expeditiously rather than been allowed to accumulate until the following consular year. The reasons for such prompt processing may have included the gravity of the phenomena themselves and feelings of unease in connexion with the dismissal of sets of reports two years running.

## B. Prodigies

1. See on $\mathrm{C} 214,5$. The localization of this prodigy and the use of the word guttae (drops) makes this report slightly different from others featuring rains of blood. It is not outside the bounds of possibility that the drops were only considered significant in the areas pointed out.
2. Given that the locale of the prodigy has to be Rome again, it is unlikely to reflect volcanic activity. Conceivably, airborne dust mingled with rain came down in clots of mud. For the ancient Romans, whatever its cause this was a far less alarming prodigy than rains of stone, since apparently it warranted no extravagant expiation such as a novendiale.

3. See on C217, 1. The locale will be Rome again.
4. Heavy rains can stir up clay materials of various colour from river beds or even bring it down from upland. Also violently agitated water can take on a whitish appearance.

5 and 6. See on C210, 6. Nature again straying grotesquely from her well-trodden path.

7. See on $\mathrm{C} 218,8$.

## C. Expiation

The requisite novendiale makes its appearance amongst otherwise unspecifiedexpiatory rites.

# Consuls: L. Cornelius Merula, Q. Minucius Thermus. 

f. LIVY, 34,55.1-4:
principio anni quo L. Cornelius Q . Minucius consules fuerunt

1. terrae motus ita crebri nuntiabantur
ut non rei tantum ipsius sed feriarum quoque ob id indictarum homines taederet; nam neque senatus haberi neque res publica administran poterat sacrificando expiandoque occupatis consulibus. postremo decemviris adire libros iussis, ex responso eorum supplicatio per triduum fuit. coronati ad omnia pulvinaria supplicaverunt, edictumque est ut omnes qui ex ona familia essent supplicarent pariter. item ex auctoritate senatus consules edixerunt ne quis, quo die terrae motu nuntiato feriae indictae essent, eo die alium terrae motum nuntiaret.

## Translation:

In the beginning of this year, when Lucius Cornelius and Quintus Minucius were consuls,

1. so frequently were movements of the earth announced
that the people were wearied not only with the phenomenon itself, but also of the public holidays proclaimed on its account. With the consuls occupied in sacrifices and expiations, neither couid the Senate be convened nor could the business of the republic be carried out. Eventually, the Xviri were instructed to approach the books, on the basis of their respoise there was a supplicatio for three days. Crowned with wreaths, people made supplication at all the pulvinaria, and it was decreed that all members of a family should make supplication together. Likewise, on the authority of the Senate, the consuls decreed that, on any day on which public holidays had been proclaimed because a movement of the earth had been announced, nobody should announce on that same day another movement of the earth.

## Comments:


#### Abstract

A. Context

The report of this prodigy opens the account of the events of C193, preceding even the allotment of provinces to the magistrates. One may then conclude that the many earthquake reports had been begun to be received prior to the consuls' entry. into office. The absence of accumulated reports of other phenomena will be due in particular to the fast track processing and expiation of a group of prodigies well into C194.


## B. Prodigy

1. At Cicero, Div. 1,35, Quintus claims cum terrae saepe fremitus, saepe mugitus, saepe motus multa nostrae rei publicae, multa ceteris civitatibus gravia et vera praedixerint (many a time the rumblings and roarings and quakings of the earth have given to our republic and to other states certain forewarnings of subsequent disaster). Pliny observes at N.H. 2,200: nec vero simplex malum aut in ipso tantum motu periculum est, sed par aut maius ostento: numquam urbs Roma tremuit ut non futuri eventus alicuius id praenuntium esst (nor yet is the disaster a simple on, nor does the danger consist only in the earthquake itself, but equally or more in the fact that it is a portent; the city of Rome was never shaken without this being a premonition of something about to happen). Both of these passages, not unique within the corpus of classical literature, clearly show the popular interpretation of this phenomenon - danger to come.

## C. Expiation

Although the rites necessary to expiate the phenomenon of an earthquake are not specifically listed, Livy says $(32,55.2)$ that neither the Senate could be convened, nor public business transacted because the consuls were occupied with this religious duty (nam neque senatus haberi neque res publica administrari poterat sacrifando expiandoque occupatis consulibus). Finally, with the authorities no doubt fed-up with constant interruptions to official business, the Sibylline books were consulted and specific rites ordained.

## //. LIVY, 35,9.1-5:

censores erant priore anno creati Sex. Aelius Paetus et C. Cornelius Cethegus. Cornelius lustrum condidit. censa sunt civium capita <du>centa quadraginta tria milia septingenta quattuor. aquae ingentes eo anno fuerunt et Tiberis loca plana urbis inundavit; circa portam Flumentanam etiam collapsa quaedam ruinis sunt
2. et porta Caelimontana fulmine icta est, murusque circa multis locis de caelo tactus
3. et Ariciae
4. et Lanuvii
5. et in Aventino lapidibus pluit
6. et a Capua nuntiatum est examen vesparum ingens in forum advolasse et in Martis aede consedisse: eas conlectas cum cura et igni crematas esse.
horum prodigiorum causa decemviri libros adire iussi, et novendiale sacrum factum, et supplicatio indicta est atque urbs lustrata.

## Translation:

Censors had been appointed the previous year, namely Sex. Aelius Paetus and C. Cornelius Cethegus. Cornelius performed the lustrum. The number of citizens recorded was 243074. In that year there were huge floods and the Tiber inundated the low-lying areas of the City; around the Flumentanian gate certain buildings even collapsed into ruin.
2. the Caelimontanian gate was struck by lightning and in many places the wall nearby was hit from the sky
3. at Aricia
4. and at Lanuvium
5. and on the Aventine it rained with stones
6. it was also announced from Capua that a huge swarm of wasps had flown into the forum and settled in the temple of Mars: these were carefully coflected and burned with fire

On account of these prodigies the Xviri were ordered to approach the books. A sacred novendiale was held, a supplicatio proclaimed, and the city was purified.

## Comments:

## A. Context

Towards the end of his account of the events of C193, Livy presents a summary list of sundry activities and occurrences excluded in the interest of continuity and coherence from his mainstream narrative. This appended material includes prodigial reports received later than the Ides of March that like counterparts the previous year were processed and expiated with relative urgency rather than being aggregated for attention at the beginning of the following consular year. Once again the seriousness of the phenomena, in particular the repeated rains of stones, will have contributed towards fast tracking.

## B. Prodigies

Despite the magnitude of the Tiber's flood and the juxtaposition of Livy's account of it with a iist of phenomena that are indubitably prodigial, it is unlikely that the inundation itself was accorded the status of a prodigium. At $35,21.5$, Livy reports that in the following year the Tiber burst its banks with even greater devastation: Tiberis infestiore quam priore anno impetu illatus urbi duos pontes, aedificia multa, maxime circa Flumentanam portam, evertit (the Tiber, attacking the city was a more violent rush than the year before, swept away the two bridges and many buildings, especially around the Porta Flumentana). It is absolutely clear from his narrative that this disaster was not treated as a prodigy.
2. See on C214, 10.

3,4 , and 5 .See on C218, 8 .
6. If the wasps were interpretatively anthropomorphized into enemies of Rome, then, by settling in the temple of the war-god, they were threatening to invade by force of arms. In this case, the burning of the wasps was a kind of apotropaic magic, suggesting that the attack of the enemy would be successfully defeated.

## C. Expiation

A single novendiale was considered sufficient to expiate showers of stones in their different locales. Once again expediency won out against strict adherence to mos maiorum.

## Consuls: L. Quinctius Flamininus, Cn. Domitius Ahenobarbus.

LIVY, 35,21.2-5:
priusquam consul praetoresque in provincias proficiscerentur, supplicatio fuit prodigiorum causa.

1. capram sex haedos uno fetu edidisse ex Piceno nuntiatum est
2. et Arreti puerum natum unimanum
3. Amiterni terram pluvisse
4. Formiis portam murumque de caelo tacta
5. et, guod maxime terrebat, consulis Cn. Domiti bovem locutum "Roma, cave tibi."
ceterorum prodigiorum causa supplicatum est; bovem cum cura servari alique haruspices iusserunt.

## Translation:

Before the consuls and praetors set out for their provinces, there was a supplicatio on account of the prodigies.

1. it was announced from Picenum that a she-goat had produced six kids at a single birth
2. at Arretium a boy with one hand had been born
3. at Amiternum it rained with earth
4. from Formiae that the gate and a wall had been hit from the sky
5. and, what was an especial cause of terror, an ox belonging to the consul Gnaeus Domitius had spoken the words, "Rome, look out for yourself."

A supplicatio was held on account of the other prodigies; the haruspices instructed that the ox was to be carefully looked after and supplied with food.

## Comments:

## A. Context

Amid or after the allotment of provinces and distribution of troops and prior to the consuls' departure for their provinces, prodigies accumulated between fast track processing of a group of prodigies within C193 and the entry into office of the consuls for C 192 were dealt with.

## B. Prodigies

1. According to Columella $(7,6.7)$, a goat of good stock would frequently produce twins and even on occasion triplets (pessima est fetura cum matres binae ternos haedos efficiunt). Six kids at one birth was regarded as a prodigy and indicative of Nature going awry.

Pliny (N.H. 8,200), Columella (7,6.6), and Varro (Rust. 2,3.8), all observe that kids were normally born at the beginning of spring. Since the Ides of March of C192 fell on the 16 th November 193 proleptic julian, the report from Picenum reached Rome sometime in or after the months of C193 concurrent with the spring season.
2. See on C210, 6 .
3. See on C194, 2.
4. See on C214, 10.
5. See on C214, 12.

## C. Expiation

Once again the haruspices were consulted with regard to a prodigy, the talking cow
(5). Yet in C209 when a cow had spoken they were not consulh ' at all, and in C214 when such had also occurred, they were apparently consulted in respect of the prodigies in toto for which they prescribed sacrifice of fully-grown animals. If the prescription in respect of the present speaking cow resembled that applied in similar circumstances in C 174 , then the cow
 was kept at public expense.

# Consuls: P. Cornelius Scipio Nasica, $\mathbf{M}^{\prime}$. Acilius Glabrio. 

LIVY, 36,37.1-6:
principio eius anni... profecto ad bellum M'. Acilio, manente adhuc Romae P. Cornelio... boves duos domitos in Carinis per scalas pervenisse in tegulas aedificii proditum memoriae est. eos vivos comburi cineremque eorum deici in Tiberim haruspices iusserunt.

## 1. Tarracinae

2. et Amiterni nuntiatum est aliquotiens lapidibus pluvisse
3. Minturnis aedem lovis et tabernas circa forum de caelo tactas esse
4. Volturni in ostio fluminis duas naves fulmine ictas conflagrasse
eorum prodigiorum causa libros Sibyllinos ex 'senatus consulto decemviri cum adissent, renuntiaverunt ieiunium instituendum Cereri esse, et id quinto quoque anno servandum; et it novendiale sacrum fieret et unum diem supplicatio esset; coronati supplicarent; et consul P. Cornelius quibus dis quibusque hostiis edidissent decemviri sacrificaret. placatis diis ... in provinciam proficiscitur consul.

## Translation:

In the beginning of the year with Manius Acilius off to the war and Publius Cornelius continuing to remain at Rome, it is recorded that two domestic oxen in the Carinae reached the roof of a building by a stairway. The haruspices instructed that they be burned alive and their ashes be thrown into the Tiber.

1. it was reported that at Tarracina
2. and at Amiternum that there had been several showers of stones
3. at Minturnae the temple of Jupiter and shops around the forum had been hit from the sky
4. at Volturnum two ships in the mouth of the river were struck by lightning and consumed by fire

On account of these prodigies the Xviri were directed by a resolution of the Senate to consult the Sibylline books. They reported back that a fast should be held in honour of Ceres and that this should be repeated every fifth year. They also enjoined that a novendiale be celebrated and that there should be a one-day supplicatio during which the participants should wear garlands;
the consul Publius Cornelius, furthermore, should make sacrifice with whatever victims the Xviri should prescribe. With the gods placated... the consul departed for his province.

## Comments:

## A. Context

One of the consuls, $\mathrm{M}^{\prime}$. Acilius departed for his province extraordinarily early in the year, before the discharge of urgent religious business. His colleague, P . Cornelius, was compelled single-handedly to initiate assessment of prodigial reports accumulated since early C192. Right at the year's beginning, two oxen climbed stairs to the roof of a house. By direction of the haruspices they were burned alive. Livy seems to distinguish the occurrence, however remarkable, from the prodigia whose processing and expiation follow. The pontifical chronicles presumably did likewise. For different treatment of a similar incident at the beginning of the Second Punic War, see on C218,2.

## B. Prodigies

1 and 2. See on C218, 8. Once again volcanism can be ruled out as a realistic explanation.
3. See on C218, 4.
4. Such a phenomenon must necessarily have been interpreted as supiter's being angry in some vay with his peopie. If the ships concerned were war-ships then defeat was probably indicated; if trading-ships perhaps economic hardship.

## C. Expiation

The haruspices were not consulted with respect to the prodigia proper. Despite the elaborateness of the expiatory procedures as a whole, once more a single novendiale was pragmatically considered adequate to cover multiple showers of stone.

## Consuls: L. Cornelius Scipio, C. Laelius.

## I. LIVY, 37,3.1-6 and 4.4:

priusquam consules in provincias proficiscerentur, prodigia per pontifices procurari placuit.

1. Romae Iunonis Lucinae templum de caelo tactum erat ita ut fastigium valvaeque deformarentur
2. Puteolis pluribus locis murus et porta fulmine icta et duo homines exanimati
3. Nursiae sereno satis constabat nimbum ortum ibi quoque duos liberos homines exanimatos
4. terra apud se pluvisse Tusculani nuntiabant
5. et Reatini mulam in agro suo peperisse
ea procurata, Latinaeque instauratae quod Laurentibus pars carnis quae dari debet data non fuerat. supplicatio quoque earum religionum causa fuit quibus diis decemviri ex libris ut fieret ediderunt. decem ingenui, decem virgines, patrimi omnes matrimique, ad id sacrificium adhibiti, et decenviri nocte lactentibus rem divinam fecerunt...
per eosdem dies quibus est profectus ad bellum consul, Ludis Apollinaribus, ante diem quintum idus Quinctiles caelo sereno interdiu obscurata lux est, cum luna sub orbem solis subisset.

## Translation:

Before the consuls set out to their provinces determined that the prodigies should be expiated by direction of the pontiffs.

1. at Rome the temple of Juno Lucina was hit from the sky in such a way that the gable and the doors were disfigured
2. at Puteoli the wall in many placts and a gate were struck hy lighting and two men were killed
3. at Nursia there was considerable consensus that a storm-cloud had appeared in a clear sky; there too two free men were killed
4. the people of Tusculum were reporting that it had rained with earth on them
5. the Reatini that in their territory a mule had given birth

After these had been expiated, the Latin Festival was renewed because the share of sacrificial meat due to the Laurentes had not been given to them. Because of all the religious fears there was also a supplicatio to those gods which the Xviri specified on the basis of the books. Ten free-born boys, ten girls, all having living fathers and mothers, were employed for this sacrifice, and at night the Xviri sacrificed suckling animals...
Around the time the consul [L. Scipio] departed to the war, during the Apollinarian Games, on the fifth day before the Ides of Quinctilis, with the sky clear during the day, the light was dimmed when the moon slid below the orbit of the sun.

## Comments:

## A. Context

The five prodigies listed are the total, or represent the end product of culling, of those reported between early C191 and the beginning of C190.

The consul, L. Scipio, departed for his province in Quinctilis, remarkably late in the year. As noted in part 2, the eclipse of the 14th of March 190 bCE proleptic julian, observed at Rome on the fifth day before the Ides of that month, plays a pivotal rôle in calibration of the Roman republican calendar with its proleptic julian counterpart. Around $90 \%$ of the sun's disc was obscured. The fact that the eclipse took place quite early in the day, around $7: 15$ am local civil time at Rome, when the sun was still relatively close to the horizon, would have contributed further to ensuring that the occurrence did not escape wide observation.

## B. Prodigies

1. See on $\mathrm{C} 218,4$.
2. See on $\mathrm{C} 214,10$. Obviously the men killed here and at Nursia were struck by lightning.
3. See on $\mathbf{C} 217,5$. It is highly unlikely, even if it does not follow inexorably, that the two deaths were associated with the sudden storm that developed when the sky was clear.
4. See on C194,2.
5. See on C211,6. Since the mating of the mule would not have been in accordance with any regular breeding practice, there is no guide as to the time of year at which it is most likely to have given birth.

Evidently the July solar eclipse was not regarded as a prodigy. Livy gives no indication to such affect and no expiation is recorded either within C190 or at the beginning of the following consular year. The march of ancient science had resulted in the graduation of eclipses from acts of the gods to predictable consequences of the regular orbital motion of sun and moon.

## C. Expiation

The expiatory measures include nothing untoward.

## II. ObSEQUENS, prodigiorum liber 1:

1. Iunonis Lucinae templum fulmine ictum ita ut fastigium valvaeque deformarentur
2. in finitimis pleraque de caelo icta
3. Nursiae sereno nimbi orti et homines duo exanimati
4. Tusculi terra pluit
5. mula Reate peperit
supplicatio per decem pueros patrimos matrimos totidem virgines habita.

## Translation:

1. the temple of Juno Lucina was struck by lightning, in such a way that the gable and the doors were disfigured
2. in neighbouring towns many things were hit from the sky
3. at Nursia storm-clouds gathered from a clear sky and two men were killed
4. at Tusculum it rained with earth
5. a mule at Reate had given birth

A supplicatio was observed by ten boys with living fathers and mothers, and as many girls.

## Comments:

O 2 truncates the equivalent L 2 and leaves out the place of observation. At O 3 the nimbus of L3 multiplies.

## C189 $=8 / 11 / 190-19 / 11 / 189$ BCEJ

## Consuls: M. Fulvius Nobilior, Cn. Manlius Vulso

Livy records no processing and expiation of prodigies either at the consular year's beginning or at any time within it. Any reports of unusual phenomena sent to Rome between early C190 and the Ides of March C189 were either rejected or disregarded. It is difficult to escape the impression that during part of the 180s BCE there was an element in the pontifical college which, motivated by rationalization or considerations of military or political pragmatism, sought to downgrade the state of prodigies and minimize the number processed and expiated.

During the year there was frequent and extensive flooding of the Tiber (Livy, 38,28.4). As usual, despite the resultant damage, the inundation was not regarded as a prodigium.

## Consuls: M. Valerius Messala, C. Livius Salinator.

## I. LIVY, 38,35.7; 36.4:

M. Valerius Messala inde et C. Livius Salinator consulatum idibus Martiis cum inissent, de re publica deque provinciis et exercitibus senatum consuluerunt...
priusquam in provincias novi magistratus proficiscerentur, supplicatio triduum pro collegio decemvirorum imperata fuit in omnibus compitis, quod

1. luce inter horam tertiam ferme et quartam tenebrae obortae fuerant
et novendiale sacrificium indictum est, quod
2. in Aventino lapidibus pluvisset

## Translation:

Then, when Marcus Valerius Messala and Caius Livius Salinator had been inaugurated as consuls on the Ides of March, they consulted the Senate regarding the general policy and the provinces and armies...
Before the bew magistrates set out for their provinces, a three-day supplicatio was ordered in the name of the college of Xviri at all cross-road shrines because

1. in day light, roughly between the third and fourth hours, darkness had descended
and a novendiale was decreed because according to report
2. it had rained with stones on the Aventine

## Comments:

## A. Context

Only two prodigies were processed and expiated at the year's beginning. They should be the survivors of heavy culling of prodigial reports that reached Rome between early C 189 and the initial days of C 188 .

## B. Prodigies

1. Brind'Amour (1983), p. 148, and others have insisted that the phenomenon recorded is to be connected with the solar eclipse of 17th July, 188 BCE proleptic julian. This was close to total as observed at Rome with culmination taking place around 6:15am local civil time. The equation is unacceptable for four main reasons. The first two of these are chronological. Livy is explicit that the prodigium concerned was processed early in the consular year. The 17th of July, 188 BCE proleptic julian equates with the fourteenth day of November of the malaised republican calendar! Again, according to the prodigial reports, the darkness fell between the third and fourth hours. On the day of the eclipse the length of the Roman hour was 1 hour 14 minutes. The sun rose at $4: 35$ am local civil time. Three hours only from dawn take us to around 7:40am which is considerably later than $6: 15 \mathrm{am}$. The third objection, nonchronological this time, is that there is no reference to the 'mechanics', now familiar to the Romans, of a solar eclipse; neither the moon nor the sun itself are mentioned. The fourth, and strongest, objection is that, like the solar eclipse of 190 BCE, that of 188 BCE would not have been regarded as a prodigy. By the end of the second century
$B C E$, eclipses had come to be regarded as natural rather than paranormal phenomena. It was precisely because the tenebrae of the report concerned were clearly not due to a solar eclipse that they qualified for recognition by the authorities at Rome as a prodigium. There is more than one possible explanation other than a solar eclipse for a sudden onset of darkness or gloom. Dust storms and airborne volcanic ash are two of the possible explanatory candidates. In the absence of sufficient descriptive and other information diagnosis is impossible. Not all sudden darkness has a routine astronomical or meteorological explanation. There can be more exotic and tangible causes. See also on a sudden darkness in C179.
2. See on C218,8. Pluvisset does not necessarily imply Livian doubt about the report's veracity. The subjunctive may be used by way of an effective oratio obliqua. The tenebrae were universally witnessed. An individual or group reported the shower of stones.


## C. Expiation

Rather than presenting first the prodigies and then the expiatory procedures employed, for this year Livy has chosen to invert the formula, stating first the expiation and then the cause of it.

## II. ObSEQUENS, P.L. 2:

1. luce inter horam tertiam et quartam tenebrae ortae
2. in Aventino lapidum pluviae novendiali expiatae

## Translation:

1. in daylight between the third and fourth hours of the day, it became dark
2. showers of stones on the Aventine were atoned for by a novendiale.

## Comment:

Obsequens multiples the stone shower just as he multiplied a nimbus the previous year.

## C187 $=$ 10/11/188-22/11/187 вСЕЈ

## Consuls: M. Aemilius Lepidus, C. Flaminius.

C187 is yet another consular year in which no prodigies were processed and expiated, either shortly after the new consuls took office or at some later juncture.

At 39,7.8-9, Livy reproduces a record to the effect that during the Roman Games, which took place in the first part of September of the Roman calendar, a rickety pole in the circus fell onto the statue of Pollentia and knocked it over (ludis Romanis eo anno, quo P. Cornelius Cethegus A. Postumius Albinus faciebant, malus in circo instabilis in signum Pollentiae procidit atque id deiecit). Disturbed by the religious implication (eo religione moti), the senators decided that a day should be added to the games, that two statues should replace the one demolished and that one of them should be gilded. While religiously disturbing and warranting a form of expiation, the incident, which does not feature in Obsequens, was clearly not regarded as a prodigium. Such classification would have been difficult given that the pole was instabilis.

## C186 $=23 / 11 / 187-12 / 11 / 186$ вСЕЈ

## Consuls: Sp. Postumius Albinus, Q. Marcius Philippus.

I. LIVY, 39,22.1-5:
per eos dies, quibus haec ex Hispania nuntiata sunt, ludi Taurii per biduum facti religionis causa. decem deinde dies apparatos ludos M. Fulvius, quos voverat Aetolico bello, fecit...
novendiale deinde sacrum tenuit, quod

1. in Piceno per triduum lapidibus pluverat
2. ignesque caelestes multifariam orti adussisse complurium levi adflatu vestimenta maxime dicebantur
addita et unum diem supplicatio est ex decreto pontificum, quod
3. aedis Opis in Capitolio de caelo tacta erat
hostiis maioribus consules procurarunt urbemque lustraverunt
4. sub idem tempus et ex Umbria nuntiatum est semimarem duodecim ferme annos natum inventum
id prodigium abominantes arceri Romano agro necarique quam primum iusserunt.

## Translation:

During the days in which these things were reported from Spain, the Taurian Games were held over a two day period for religious reasons. Then M. Fulvius held the games which he had vowed during the Aetolian war...

Then he held a sacred novendiale because

1. it had rained with stones in Picenum for three days
2. celestial fires that appeared in several places were said to have set fire to (or scorched) the clothes of several people with a gentle afflation

A one-day supplicatio was added by decree of the pontifices because
3. the temple of Ops on the Capitoline had been hit from the sky

The consuls made expiation with full-grown victims and purified the city
4. about the same time it was reported from Umbria that a half-male some twelve years old had been found

Abhorring this prodigy, they ordered it to be kept away from Roman soil and to be killed as soon as possible.

## Comments:

## A. Context

No prodigies were processed and expiated at the commencement of the consular year. Shortly after celebration of the Taurian games and of a ten-day votive games vowed by M. Fulvius, four prodigies were processed and expiated almost immediately rather than being aggregated for the attention of the consuls of C185. The prolonged shower of stones, the phenomenon reflected by the second prodigial report and the discovery of the semi-male were all serious occurrences. In combination they were considered by the authorities of C185 to merit almost instantaneous action.

The Taurian games, allegedly established during the reign of Tarquinius Superbus, were celebrated on the 25 th and 26 th June by the Roman republican calendar. For C186 the proleptic julian equivalents are the 4th and 5th of March (!)
decem deinde dies apparatos is Madvig's minimalist conjectural replacement for the corrupt decem apparatos deinde of the MSS. Probably a further word such as magnifice or splendide needs to be inserted between dies and apparatos, which unsupported is rather flat.

## B. Prodigies

1. See on $\mathbf{C} 218,8$. A meteoric explanation is ruled out by the duration, and volcanism by the locale.
2. If the text is right, Livy's expression is somewhat slipshod. Since a novendiale was a specific nostrum for showers of stone, the causal quod cannot, as appears at first sight, also embrace the second Picentine prodigium.

It is difficult to translate in such a way as not to pre-empt diagnosis. I have sought to be completely literal and used the obsolete nous afflation to render afflatus. Presumably the fire was aerial, off the ground, rather than high in the sky. If it were not for the claimed damage to clothing one would tend to think in terms of St Elmo's fire, As so often, it is unclear whether the phenomenon happened during the day or at night. Expert analysis is called for.
3. The most 'mundane' of the four prodigies. See on C218,4.
4. See on C209,9.

## C. Expiation

To expiate the prodigy of the hermaphrodite, it was not necessary to consult the haruspices as they had previously furnished a precedent.

## II. ObSEQuens, p.L. 3:

sacrum novendiale factum quod

1. in Piceno lapidibus pluit
2. ignesque caelestes multifariam orti levi afflatu complurium vestimenta adusserunt
3. aedes Iovis in Capitolio fulmine icta
4. in Umbria semimas duodecim ferme annorum inventus
aruspicumque iussu necatus.

## Translation:

A sacred novendiale was held because

1. in Picenum it had rained with stones
2. and celestial fires that appeared in many places had burnt (or scorched) the clothes of many people with a gentle afflation
3. the temple of Jupiter on the Capitol had been struck by lightning
4. in Umbria, a half-male about twelve years old was found

By order of the haruspices it was put to death.

## Comment:

Obsequens gratuitously assumes that the haruspices were consulted about and gave the directions for the destruction of the semi-male.

C185 $=13 / 11 / 186-24 / 11 / 185$ BCEJ

## Consuls: Ap. Claudius Pulcher, M. Sempronius Tuditanus.

Livy records no processing or expiation of prodigies at any time during the consular year.

C184 $=25 / 11 / 185-14 / 11 / 184$ BCEJ

## Consuls: P. Claudius Pulcher, L. Porcius Licinus

For the second year running Livy records no processing and expiation of prodigies at any time during the consular year. It seems clear that a majority among Rome's current secular and religious authorities had either decided that prodigia were démodés in the light of scientific progress and/or that often complex rituals of expiation were an encumbrance incompatible with administrative efficiency at home and smooth transition of commanders in theatres of war.

## Consuls: M. Claudius Marcellus, Q. Fabius Labeo.

I. LIVY, 39,46.2-6:
P. Licini funeris causa visceratio data, et gladiatores centum viginti pugnaverunt, et ludi funebres per triduum facti, post ludos epulum. in quo cum toto foro triclinia strat essent, tempestas cum magnis procellis coorta coegit plerosque tabernacula statuere in foro; eadem paulo post, cum undique disserenasset, sublata; defunctosque volgo ferebant quod inter fatalia vates cecinissent, necesse esse tabernacula in foro statui. hac religione levatis altera iniecta, quod

1. sanguine per biduum pluvisset in area Vulcani
et per decemviros supplicatio indicta + erat + eius prodigii expiandi causa. consules, priusquam in provincias proficiscerentur...

## Translation:

On account of the funeral of $P$. Licinius, sacrificial communal meal was provided, and 120 gladiators fought, and funeral games were given over a three-day period, after the games there was a public banquet. During this, after banquetting-couches had been arranged all over the forum, a storm came up with extremely violent winds and compelled most people to set up tents in the forum; these were removed shortly after when it had cleared up everywhere; general talk had it that they had fulfilled an omen which the soothsayers had declared to be among the decrees of fate: namely that tents had to be set up in the forum. After people had been released from this religious fear, another one was imposed on them on the grounds that

1. it had rained with blood for two days in the precinct of Vulcan

A supplicatio was proclaimed by the Xviri for the purpose of expiating the prodigy. Before the consuls set out for their provinces...

## Comments:

## A. Context

This single prodigy was processed and expiated right at the beginning of the consular year, shortly after the consuls had assumed office. The occurrence, in the wake of a spectacular storm whose consequences stimulated religious introspection, was sufficiently dramatic or dramatized to prompt recognition as a prodigium.

## B. Prodigy

1. See on C214,5.

## C. Expiation

The expiatory supplicatio is a relatively minimalist response.
indicta erat is added; Rupert advocated emendation to est.

## II. LIVY, 39,56.6:

supplicatio extremo anno fuit prodigiorum causa, quod
2. sanguine per biduum pluvisse in area Concordiae satis credebant
3. nuntiatumque erat haud procul Sicilia insulam, quae non ante fuerat, novam editan e mari esse

Hannibalem hoc anno Antias Valerius decessisse est.

## Translation:

At the end of the year there was a supplicatio on account of the prodigies, in the first place because they had sufficient belief
2. that it had rained with blood for two days in the precinct of Concord
3. also it had been announced that not far from Sicily, a new island which had not existed before emerged from the sea.

Valerius Antias informs us that Hannibal died in this year.

## Comment:

## A. Context

The two prodigies were recognized and expiated right at the end of the consular year. Such a sense of urgency was apparently inspired that the authorities were not prepared to leave processing to the administration of the next consular year.

Overall one detects a renewed 'positive' attitude towards prodigia. Abandonment of extreme rationalism and/or pragmatism could be connected with the death of the pontifex maximus, Publius Licinius Crassus, early in the year. He was replaced at the head of the religious establishment by Caius Servilius Geminus. His place in the pontifical college was filled by co-optation of Marcus Sempronius Tuditanus.

It is conceivable that a contributor to augmented religious sensitivity and zeal was satisfaction at news of the death of the arch-enemy Hannibal.

## B. Prodigies

2. A second two-day rain of blood in an area adjacent to the Vulcan precinct is remarkable. While there is no good reason to suppose dcable reportage of the same event (Livy is emphatic about the different times of year concerned), it is legitimate to consider hysteria or fraud as possible explanations.
3. A submarine seismic disturbance or submarine volcanism are the obvious candidates as catalyst for this new island. Pliny, N.H. 2,202, saw the appearance of new land masses as a way of Nature's balancing subsidence: nascuntur et alio modo terrae ac repente in alio mari emergent velut paria secum faciente natura quaeque hauserit hiatus alio loco reddente (New lands are also formed in another way, and suddenly emerge in a different sea, nature as it were, balancing accounts with herself and restoring in another place what an earthquake has engulfed.)

## C. Expiation

A further supplicatio is again somewhat minimalist.
III. OBSEQUENS, P.L. 4:

1. in area Vulcani per biduum
2. in area Concordiae totidem diebus sanguinem pluit
3. in Sicilia insula nova maritima

## Translation:

1. for two days in the precinct of Vulcan
2. and in the precinct of Concord for the same length of time it rained with blood
3. off Sicily a new island arose in the sea

## Comment:

Obsequens' terse summary obscures the fact that 1 and 2 together with 3 are processed at different ends of the consular year.

## IV. Orosius, 4,20.30:

1. in Sicilia tunc Vulcani insula, quae ante non fuerat, repente mari edita cum miraculo omnium usque ad nunc manet.

## Translation:

1. At that time, near Sicily, the island of Vulcan, which had not existed before, suddenly to the amazement of all, came forth from the sea and remains there to this day.

## Comment:

Orosius adds the new island's name.

## Consuls: Cn. Baebius Tamphilus, L. Aemilius Paullus.

I. LIVY, 40,2.1-4:

1. ver procellosum eo anno fuit. pridie Parilia, medio ferme die, atrox cum vento tempestas coorta multis sacris profanisque locis stragem fecit, signa aenea in Capitolio deiecit, forem ex aede Lunae, quae in Aventino est, raptam tulit et in posticis parietibus Cereris templi adfixit, signa alia in cirso maximo cum columnis quibus superstabant evertit, fastigia aliquot templorum a culminibus abrupta foede dissipavit
itaque in prodiginm versa ea tempestas, procurarique haruspices iusserunt. simul procuratum est quod
2. tripedem mulum Reate natum nuntiatum erat
3. et a Formiis aedem Apollinis Caietae de caelo tactam
ob ea prodigia viginti hostiis maioribus sacrificatum est e! diem unum supplicatio fuit.

## Translation:

1. That year the spring was tempestuous. On the day before the Parilia, about midday, a terrible storm accompanied by wind sprang up; this caused damage in many places, both sacred and profane, it threw down bronze statues on the Capitol, tore a door-post from the temple of Luna which is on the Aventine, and having carried it along, fixed it in the rear walls of the temple of Ceres; it overturned other statues in the Circus Maximus, together with the columns on which they were standing, and, a further ill-omen, it broke off the pediments from the roofs of several temples and scattered them around.

Consequently, the storm was turned into a prodigy and the haruspices ordered expiation. At the same time expiation was made because
2. it had been announced that a three-footed mule had been born at Reate
3. and from Formiae that the temple of Apollo in Caieta had been hit from the sky

On account of these prodigies, twenty full-grown victims were sacrificed and there was a oneday supplicatio.

## Comments:

## A. Context

A long-standing agricultural festival, the Parilia, was celebrated on the 21st of April by the Roman republican calendar. In C182 this was equivalent to January 4th, 183 BCE proleptic julian. Since the day concerned is in the depth of winter, ver is used in a technical rather than a seasonal sense. The technical first day of spring was the 7th of February by the republican calendar. The first day of summer in the technical sense was the 9th of May (see Varro, Rust. 1,28). All this serves to bring out the chaos that operated after protracted abandonment of intercalation.

Since prodigies had been processed and expiated at the end of C183, the threefooted mule prodigy was not carried over from the previous year. Simul does not preclude the animal's having been born as early as late March. It was the processing of the three prodigies that was simultaneous. Whatever, the parents of the mule must have mated outside the normal breeding season.

## B. Prodigies

1. As noted à propos an earlier year (C212), storms, however destructive, were not normally treated as prodigies. Given Livy's emphatic in prodigium versa, this exception is one that proves the rule. As well as being an agricultural festival, the Parilia was significant because the 21st of April was supposed to be the calendrical day of Rome's foundation. The proximity of the tempest to Rome's birthday could have influenced its prodigial grading.
2. See on C211,6.
3. See on C218,4. Although Formiae and Caieta are close to each other, it is strange that a lightning strik. at the latter is furnished by the former. Since Caieta was read by Obsequens, it is unlikely to be corrupt. Conceivably, the content of a prodigium witnessed at Formiae has fallen out of the text. Alternatively, Formiis requires
 emendation.

## C. Expiation

The Etruscan haruspices were consulted about the storm prodigy probably because the Romans were unaccustomed to treating storms as events requiring expiation and so have no precedents from which to work.

## /I. ObSEqUENS, P.L. 5:

1. procellosa tempestate strages in urbe facta signa aenea in Capitolio dejecit, signa in circo maximo cum columnis evertit, fastigia templorum aliquot a culmine abrupta dissipavit
2. mulus tripes Reate natus
3. aedes Apollinis Caietae fulmine icta

## Translation:

1. Wreckage caused in the city by a storm accompanied by high winds involved the overthrowing of bronze statues on the Capitol, the storm overturned statues together with their columns in the Circus Maximus; it scattered the pediments of several temples which had been broken off from the roof
2. a three-footed mule was born at Reate
3. the temple of Apollo at Caieta was struck by lightning

## Comment:

There is no reflection of Formiis. If the prodigy there is missing from Livy's text, it must have fallen out very early.

## $C 181=18 / 11 / 182-29 / 11 / 181$ BCEJ

## Consuls: P. Cornelius Cethegus, M. Baebius Tamphilus.

## f. LIVY, 40,19.2-5:

prodigia multa foeda et Romae eo anno visa et nuntiata peregre.

1. in area Vulcani et Concordiae sanguine pluvit
2. et pontifices hastas motas nuntiavere
3. et Lanuvini simulacrum Iunonis Sospitae lacrimasse
4. pestilentia in agris forisque et conciliabulis et in urbe tanta erat ut Libitina funeribus vix sufficeret
his prodigiis cladibusque anxii patres decreverunt ut et consules quibus dis videretur hostiis maioribus sacrificarent, et decemviri libros adirent. eorum decreto supplicatio circa omnia pulvinaria Romae in diem unum indicta est. iisdem auctoribus et senatus censuit et consules edixerunt ut per totam Italiam triduum supplicatio et feriae essent.

## Translation:

Mia.:/ dreadful prodigies were observed at Rome that year and announced from outside the city.

1. in the precinct of Vulcan and Concord it rained with blood
2. and the priests announced that the spears had moved
3. the people of Lanuvium announced that the statue of Juno Sospita had wept
4. pestilence was so severe in the country-side, in rural towns, in district administrative centres, and in the city that Libitina could scarcely cope with the funerals

Disturbed by these prodigies and disasters, the senators determined both that the consuls should make a sacrifice with full-grown victims to whatever gods it should seem appropriate, and that the Xviri should approach the books. By determination of the latter, a supplicatio was decreed for one day at Rome around all the pulvinaria. Also on the Xviri's authority the Senate decided and the consuls proclaimed that throughout the whole of Italy for three days there should be a supplicatio and religious holiday.

## Comments:

## A. Context

Livy notes the beginning of the consular year concerned at $40,18.3$. The processing and expiation of prodigies is recorded immediately after he has dealt with the assignment of provinces and various military arrangements. Although one receives the impression that all the prodigia listed occurred after the new consuls took office, it is possible that they represent an aggregation of all reports accepted since processing of a group of prodigies in late April and May of the previous consular year.

## B. Prodigies

1. See on C214,5 and C183,1 and 2. Yet another blood rain in the Vulcan and Concordia precincts whose contiguity is made clear. One cannot help thinking again in terms of hysteria or fraud.
2. Martis can safely be restored on the basis of Obsequens. nuntiavere is generally used for prodigy reports received from outside Rome. Nevertheless, the locale is likely to be the temple of Mars in the city. Deterrent to restoring Praeneste in the text is the version of Obsequens. See also on C218,5.
3. See on $\mathrm{C} 217,16$.
4. It is likely, but not absolutely certain, that the plague was regarded as a prodigium, though just as possibly it was one of the disasters mentioned.

## C. Expiation

Duplication of supplicationes suggests again a resurgence of religiosity in the religious establishment.
//. ObSEQUENS, P.L. 6 :

1. in area Vulcani et Concordiae sanguinem pluit
2. hastae Martis motae
3. Lanuvii simulacrum Iunonis Sospitae lacrimavit
4. pestilentiae Libitina non suffecit.
ex Sibyllinis supplicatum cum sex mensibus non pluisset.

## Translation:

1. it rained blood in the precinct of Vulcan and Concord
2. the spears of Mars moved
3. at Lanuvium the statue of Juno Sospita wept
4. Libitina did not suffice for the plague

On the basis of the Sibylline books, there was a supplicatio when it had not rained for six months.

## Comment:

The lack of rain for six months is recorded by Livy at $40,25.2$. He makes no mention of a special supplicatio in its connexion. The supplicatio is that of Livy $40,19.5$. Either Obsequens has manectured a false connexion or his text is at fault at this point.

## Consuls: A. Postumius Albinus Luscus, C. Calpurnius Piso.

LIVY, 40,36.14; 37.1-3:
et is ipse exercitus aegre explebatur propter pestilentiam, quae tertium iam annum urbem Romanam atque Italiam vastabat...

1. praetor Ti. Minucius et haud ita multo post consul C. Calpurnius moritur, multique alii omnium ordinum illustres viri
postremo prodigii loco ea clades haberi coepta est. C. Servilius pontifex maximus piacula irae deum conquirere iussus decemviri libros inscipere, consul Apollini Aesculapio Saluti dona vovere et dare signa inaurata; quae vovit deditque. decemviri supplicationem in biduum valetudinis causa in urbe et per omnia fora conciliabulaque edixerunt; maiores duodecim annis omnes coronati et lauream in manu tenentes supplicaverunt.

## Translation:

Even this army was raised with difficulty on account of the pestilence which was devastating the city of Rome and Italy for the third year running...

1. The praetor Tiberius Minucius died and not much after him the consul Gaius Calpurnius, many other distinguished men of all orders died too.

Ultimately this catastrophe came to be regarded as a prodigy. The pontifex maximus C . Servilius was directed to inquire into appropriate rites of atonement with respect to the anger of the gods. The Xviri were directed to inspect the Books; the consul was directed to view gifts to Apollo, Aesculapius, and Salus, and to provide gilded statues for them. He vowed the former and provided the latter. The Xviri proclaimed a supplicatio to vow for two days for the purpose of restoring health, both in the city and throughout all the rural towns and administrative centres. All people more than twelve years old made supplicatio wearing garlands and holding laurel in their hands.

## Comments:

## A. Context

Livy notes the beginning of the new consular year at $40,35.3$. The expiations recorded at 37.2-3 were probably commenced during its first months. No prodigial reports were carried over from the previous year.

## B. Prodigy

1. Under normal circumstances the deaths of magistrates through illness would not cause much stir, but in this case, during a major plague which had already run for a considerable time, it may have seemed that the leaders of Rome had become the targets of divine anger.

## C. Expiation

Three gods were isolated for especial honours in this trying time : Apollo, Aesculapius and Salus. In C212, Ludi Apollinares were held and in C208, a plague induced the officials to vos them in perpetuity. Here the Romans were clearly expecting Apollo to come to bheir aid as a god of healing. Aesculapius was the Greek god of healing to whose cult centre in Epidaurus people went to find cures for their ailments. He was brought to Rome in 293-1 bCE. Salus was the Latin name given to his daughter Hygeia (Health).

Laurel branches were traditionally used as a means of purification. It was seen as a kind of prophylactic, as was the purple-bordered toga. Laurel protected people and their cities against the malevolent workings of evil spirits, and even soldiers heading into battle were on occasion crowned with laurel (cf. 45,38.12), perhaps to ward off the avenging manes of the men killed on the battle field. Pestilence was held to be caused by evil spirits and laurel would therefore repel them [See OgLE (1910)].

## Consuls: Q. Fulvius Flaccus, L. Mianlius Fulvianus.

## f. LIVY, 40,45.1-6:

hiems eo anno nive saeva et omni tempestatum genere fuit: arbore quae obnoxiae frigoribus sunt, deusserat cunctas; et ea tum aliquanto quarn alias longior fuit. taque Latinas nox subito coorta et intolerabilis tempestas in monte turbavit instaurataeque sunt ex decreto pontificum.

1. eadem tempestas et in Capitolio aliquot signa prostravit
fulminibusque complura loca deformavit
2. a rom Iovis Tarracinae
3. augem Albam Capuae portamque Romanam, muri pinnae aliquot loci decussae erant haec inter prodigia
4. nuntiatum et $a b$ Reate tripedem natum mulum
ob ea decemviri iussi adire libros edidere, quibus diis et quot hostiis sacrificaretur, et ut supplicatio diem unum esset.
censorum inde comitia habita.

## Translation:

Winter in that year was severe on account of snow and every kind of storm. It had withered up all trees which are vulnerable to cold; and on top of this lasted somewhat longer than in other years. Amid these conditions,blackness like that of night which suddenly came down and a storm that swept ali before it broke up the Latin festival on the Alban mount. Consequently the games were renewed by proclamation of the pontifices.

1. the same storm overthrew several statues on the Capitoline and wrecked with lightning strikes many places, namely
2. the temple of Jupiter at Tarracina
3. and the "white" temple and the Porta Romana at Capua, where the parapets of the wall were dislodged in several places
amidst these prodigies
4. it was announced from Reate that a mule with three feet had been born

On account of these occurrences, the Xviri were ordered to consult the bocks, they directed to what gods and with how many victims there should be sacrifice, and that there should be a oneday supplicatio.

Elections of censors were then held.

## Comments:

## A. Context

Livy's account of the events of C179 begins at $40,44.3$. The widespiead storm responsible for three prodigies took place close to the consular year's commencement. It is possible that the mule teratology from Reate was carried over from the previous year.

## B. Prodigies

1,2 , and 3. As usual, the storm itself was not
a prodigy. Its direct toppling of statues, certainly of gods, on the Capitol and the effects of associated lightning at Tarracina and Capua were a different matter.

The single, damaged, manuscript (Codex Vindobonensis Lat. 15) on which we are dependent at this stage for Livy's text has mox

between Latinas and subito. nox is the obvious emendation. If it is correct, one might compare the sudden onset of night-like conditions with the tenebrae of C188,1.
4. See on C211,6.
C. Expiation

The conventional measures taken are comparatively low key.
II. LIVY, 40,59.6-8:

Ludi Romani instaurati ab aedilibus curulibus Cn. Servilio Caepione Ap. Claudio Centone propter prodigia, quae evenerant.
5. terra movit
6. in fanis publicis, ubi lectisternium erat, deorum capita quae in lectis erant averterunt se lanxque cum integumentis quae Iovi apposita fuit, decidit de mensa
7. oleas quoque praegustasse mures in prodigium versum est
ad ea expianda nihil ultra quam ut ludi instaran rio. actum est.

## Translation:

The Ludi Romani were repeated by the curule aediles, Gnaeus Servilius Caepio and Appius Claudius Cento, on account of the prodigies which had occurred
5. the earth moved
6. in the public shrines, when a lectisternium was being held, the heads of the gods which were on the couches, turned themselves away and the dish which had been set before Jupiter together with its coverings fell down from the table
7. it was turned into a further prodigy that mice had tasted the olives

For the purpose of expiating these occurrences, nothing further was done beyond repetition of the Games.

## Comments:

## A. Context

The primary Ludi Romani would have concluded on the 19th day of September by the republican calendar. The equivalent in proleptic julian terms in the 23rd of May, 179 BCE. Presumably the three prodigial reports concerned were received during or immediately after their celebration. Processing and expiation were evidently considered a matter of urgency.

## B. Prodigies

5. See on C193,1.
6. The prodigy may reflect effects of the tremor.
7. Cicero wryly notes at Div. 2,59 that the whole purpose of a mouse was to gnaw; one would expect them to consume unprotected food.

## C. Expiation

Repetition of the games was expensive and time-consuming. Further dislocation stemming from other expiatory measures was unacceptable.
III. ObSEQUENS, P.L. 7:

1. nimbis continuis in Capitolio signa aliquot deiecta
2. fulmine Romae et circa plurima decussa
3. in lectisternio Iovis terrae motu deorum capita se converterunt; lanx cum integumentis quae Iovi erant apposita decidit
4. de mensa oleas mures praeroserunt

## Transiation:

1. As a result of unremitting dark clouds several statues on the Capitol were thrown down
2. very many places both at Rome and round about were struck by lightning
3. at the lectisternium for Jupiter, due to the movement of the earth, the heads of the gods turned themselves backwards; the dish with its coverings, which had been placed before Jupiter, fell down
4. mice gnawed at the olives on the table

## Comment:

Once again Obsequens runs together two separate groups of prodigies. nimbis continuis involves considerable interpretative abbreviation of the Livian original. The locales of the lightning strikes are omitted.

## Consuls: M. Iunius Brutus, A. Manlius Vulso.

I. OBSEQUENS, P.L. 8:

1. incendio circa forum cum plurima essent deusta, aedes Veneris sine ullo vestigio cremata
2. Vestae penetralis ignis extinctus

Virgo iussu M. Aemilii pontificis maximi flagro caesa negavit uiterius interiturum. supplicationibus habitis in Hispani et Histria bella prospere administrata

## Translation:

1 when most of the area around the forum had been burnt down by fire, the temple of Venus was incinerated without a single trace remaining
2. the home fire of Vesta went out

At the command of Marcus Aemilius, the pontifex maximus, the Vestal virgin responsible was beaten and said that it would never go out again. There were supplications after which the wars in Spain and Histria were carried on successfully.

## Comment:

A large portion of Livy's account of the events of C178 is no longer available due to the loss of two quaternions from the only extant manuscript.

If the conflagration in the city achieved the status of a prodigium, then this will have been due to the fotal obliteration of the Venus temple.

It is highly unlikely that the temporary extinction of Vesta's fire, which is also mention in the Periocha (epitome) of Livy's 41st book, was regarded as a prodigy. Clearly there was a dearth of prodigia processed and expiatedin C178 and Obsequens was driven, so to speak, to scrape the bottom of the barrel.

There is no way of telling at what time of year fire raged around the forum and one of the Vestal virgins was guilty of neglect.

## Consuls: C. Claudius Pulcher, Ti. Sempronius Gracchus.

## I. LIVY, 41,9.5-7:

priusquam consules provincias sortirentur, prodigia nuntiata sunt

1. lapidem in agro Crustumino in lucum Martis de caelo cecidisse
2. puerum trunci corporis in agro Romano natum
3. et quadrupedem anguem visum
4. et Capuae multa in foro aedificia de caelo tacta
5. et Puteolis duas naves fulminis ictu concrematas esse
inter haec quae nuntiabantur
6. lupus etiam Romae interdiu agitatus, cum Colina porta intrasset, per Esquilinam magno consectantium tumultu evasit
eorum prodigiorum causa consules maiores hostias immolarunt, et diem unum circa omnia pulvinaria supplicatio fuit.

## Translation:

Before the consuls were to set out for their provinces, the prodigies were announced:

1. a stone had fallen from the sky into the grove of Mars in the territory of Crustumerium
2. in the countryside close to Rome a limbless boy had been born
3. and a four-footed snake had been seen
4. at Capua many buildings in the forum had been hit from the sky
5. at Puteoli two ships were consumed by fire simultaneously duc to a lightning strike
while these occurrences were being announced
6. chase was given to a wolf in the daytime. It had entered by the Colline Gate and it had escaped by the Esquiline Gate to the accompaniment of great uproar on the part of the pursuers

On account of these prodigies the consuls immolated full-grown victims, and there was a oneday supplicatio about all the pulvinaria.

## Comments:

## A. Context

The six prodigies listed were processed between the entry' of the consuls upon office and their departure for the provinces. Despite the impression conveyed by nuntiata sunt and nuntiabantur, it is clear that the first five items represent an aggregation of reports over a period that extends from early C 177 well back into the previous consular year. Reptiles (3) are not observed in winter. Onily the sixth prodigy was definitely reported in C177.

## B. Prodigies

1. While the absence of a novendiale from the expiatory measures is not probative, it is unlikely that this singleton lapis qualified for definition as a shower. If the report was not fictive, a meteorites is the obvious explanation; however, the religiously sensitive rea of deposit raises at least the suspicions of doubt about authenticity. Prodigies involving Mars in any way would have been regarded as especially significant at this time, given the current extent of Roman military activity.
2. See on C209, 11.

3. This four-legged snake was presumably a lizard. Perhaps its legs were unusually stunted. As noted above, the creature would not have been observed during winter months.
4. See on C214,7.
5. See on C191,5.
6. Once again the wolf will have been in search of food. A severe winter can be inferred. See on C218,10.

## C. Expiation

The expiations are routine. To repeat, there was no novendiale.

## //. LIVY, 41,12.10; 13.1-3, 6 :

Claudius duarum gentium uno anno victor... Romam revertit.
prodigia eo anno nuntiata:
7. in Crustumino avem sanqualem quam vocant sacrum lapidem rostro cecidisse
8. bovem in Campania locutam
9. vaccam aeneam Syracusis ab agresti zuro qui a pecore aberrasset, initam ac semine adspersam
in Crustumino diem unum in ipso loco supplicatio fuit, et in Campania bos alenda publice data, Syracusanumque prodigium expiatum editis ab haruspicibus dis, quibus supplicaretur.
C. Claudius consul ad urbem venit.

## Translation:

Claudius, victor over two people in one year... returned to Rome.
Prodigies were announced that year:
7. in the territory of Crustumerium a bird of the kind they call sanqualis cut a sacred stone with its beak
8. a cow spoke in Campania
9. at Syracuse a cow made of bronze was mounted and splashed with semen by an unmated bull which had strayed from its herd

There was a one-day supplicatio at Crustumerium on the actual spot, and in Campania the cow was presented for maintenance at public expense. The prodigy at Syracuse was expiated, after the haruspices had proclaimed the gods to which supplication should be made.
C. Claudius the consul reached the city.

## Comments:

## A. Context

Having gone through the details of various military campaigns, Livy concludes his narrative of the events of C 177 with a brief account of overlapping happenings in Italy and at Rome. These include the establishment of a colony at Luna, the death of a pontifex, and processing and expiation of three prodigies. The phenomena reported were evidently considered to require more or less immediate attention.

## B. Prodigies

7. Pliny is a little confused about this bird, generally identified as an osprey. He says (N.H. 10.20), that some claim it is the chick of the bearded vulture while others think it is the adult bearded vulture. Whichever it was, Pliny continues that none has been seen in Rome since 87 BCE, though he attributes such a belief to general slackness in observation and recognition. The object allegedly cut could have been a boundary, sepulchral or oath stone. From Cicero, Fam. 7.12 and elsewhere it emerges that oaths could be sworn on Jupiter and the stone. As Williams, the Loeb translator, explains (ad loc.), the swearer took up a stone saying 'If wittingly I break my oath, then may Diespiter cast me out of my possessions as I cast away this stone'." Whatever the type of stone concerned, the damage had religious implications and was a bad omen.
8. See on C214,12.
9. Acceptance of a report from Syracuse is remarkable. The incident must have made a major impression.

## C. Expiation

The consternation engendered by 7 is evident in the fact that this prodigy was expiated with a supplicatio at its source, Crustumerium, rather than being dealt with at Rome. Given an unprecedented locale as well as occurrence, the haruspices were called upon to prescribe with respect to 9 .

## III. Obsequens

There is no reflexion of either group of prodigies in Obsequens. This is more likely due to the state of the text than repeated carelessness on Obsequens' part.

# Consuls: Cn. Cornelius Scipio, Q. Petilius Spurinus. 

## I. LIVY, 41,16.1-6:


#### Abstract

Latinae feriae fuere ante diem tertium nonas Maias, in quibus quia in una hostia magistratus Lanuvinus precatus non erat populo Romano Quiritiurn, religioni fuit. ... accesserat ad religionem, quod Cn. Cornelius consul ex monte Albano rediens concidit et, parte membrorum captus ad Aquas Cumanae profectus ingravescente morbo Cumis decessit. ... consul Q. Petilius cum primum per auspicia posset, collegae subrogando comitia habere iussus et Latinas edicere, comitia in ante diem tertium nonas Sextiles, Latinas in ante diem tertium idus Sextiles edixit. plenis religionum animis prodigia insuper nuntiata:


1. Tusculi facem in caelo visam
2. Gabiis aedem Apollinis et privata aedificia complura
3. Graviscis muruin portamque de caelo tacta
ea patres procurari uti pontifices censuissent iusserunt.

## Translation:

The Latin festival took place on the third day before the Nones of May, religious apprehension arose because during the sacrifice of one of the victims, the official from Lanuvium had not prayed for the Roman population of the Quirites. ... Religious apprehension was increased because Gnaeus Cornelius the consul had fallen while returning from the Alban Mount, and was paralyzed in some of his limbs. He set out for Aquae Cumanae and died at Cumae after his illness grew more severe. ... As soon as the auspices permitted, the consul Quintus Petilius was instructed to hold an election for the choosing of a colleague and to proclaim the Latin Festival; the elections were scheduled for the third day before the Nones of Sextiles, the festival for the third day before the Ides of Sextiles. On top of all this, with people's minds full of religious fears, prodigies were announced:

1. at Tusculum, a torch had been seen in the sky
2. at Gabii the temple of Apollo and several private buildings
3. and at Graviscae the wall and gate had been hit from the sky

The senators ordered that these be expiated in accordance with the recommendatiois of the pontifices.

## Comments:


#### Abstract

A. Context

At least in part due to the fast-track treatment of a group of prodigies deep with in C177, no prodigial reports awaited the attention of the consuls of C 176 when they took office. In or just before Sextilis of the republican calendar (equivalent to late April and early May, 176 BCEJ ), in the wake of a vitiated Latin Festival and the death of one of the consuls, the civil and religious authorities deemed it appropriate to endorse, process and expiate without delay three prodigies that had been recently announced.


## B. Prodigies

1. See on C217,7.
2. See on C218,4.
3. See on $\mathrm{C} 214,10$.

## C. Expiation

Livy fails to spell out the expiatory measures that the pontifices recommended.

## !I. Obsequens, P.L. 9:

1. cum immolassent victimas consules, iecur extabuit

Cornelius ex monte Albano rediens membris captus ad aquas Cumanas mortuus, Petillius contra Ligures dimicans occisus est.

## Translation:

1. after the consuls had offered sacrifice, the liver melted away

Cornelius suffered a stroke on his way back from the Alban Mount and died at the spa of Cumae, while Petillius was killed in battle against the Ligurians.

## Comment:

Failing to list the three prodigies at Livy, 41,16, Obsequens records an occurrence of which the historian gives a fuller account at 41,15 . Early in the consular year it was reported to the Senate that the liver of a sacrificed ox had melted away during the boiling of its entrails prior to extispicy. Livy describes the occurrence as a prodigium using the word non-technically. Obsequens was misled by the term into regarding the incident as a prodigy in the official sense.

## Consuls: P. Mucius Scaevola, M. Aemilius Lepidus

Due to significant losses of sheets from the single MS in which book 41 of Livy's history is preserved, the historian's account of events towards the beginning and end of C175 is lost. Given the hopeless state of his text, the absence of C175 prodigia from Obsequens does next to nothing to counterindicate the possibility of either or both lacunae having contained prodigial material. The processing and expiation of prodigies later than Junius C175 would be ruled out by the suggested identification of C174,6.

## Consuls: Sp. Postumius Albinus, O. Mucius Scaevola.

I. LIVY, 41,21.5-13; 22.1:
dilectus consulibus eo difficilior erat quod

1. pestilentia quae priore anno in boves ingruerat eo verterat in hominum morbos. qui inciderant, haud facile septimum diem superabant; qui superaverant, longinquo, maxime quartanae, implicabantur morbo. servitia maxime moriebantur; eorum strages per omnes vias insepultorum erat. ne liberorum quidem funeribus Libitina sufficiebat. cadavera intacta a canibus ac volturibus tabes absumebat; satisque constabat nec illo nec priore anno in tanta strage boum hominumque volturium usquam visum.
... cum pestilentiae finis non fieret, senatus decrevit uti decemviri libros Sibyllinos adirent. ex decreto eorum diem unum supplicatio fuit, et $Q$. Marcio Philippo verba praeeunte populus in foro votum concepit, si morbus pestilentiaque ex agro Romano emota esset, biduum ferias ac supplicationem se habiturum.
2. in Veienti agro biceps natus puer
3. et Sinuessae unimanus
4. et Auximi puella cum dentibus
5. et arcus interdiu sereno caelo super aedem Saturni in foro Romano intentus et tres simul soles effulserunt
6. et faces eadem nocte plures per caelum lapsae sunt
7. et Lanuvini
8. Caeritesque anguem in oppido suo iubatum, flavis maculis sparsum, apparuisse affirmabant
9. et in agro Campano bovem locutum esse satis constabat
legati nonis luniis ex Africa redierunt.

## Translation:

The consuls had particular difficulty with the levy because

1. the plague which had descended upon the cattle the previous year had this year turned to diseases that afflicted human beings. Its victims did not easily survive the seventh day; those who had survived that long contracted a lingering disease, for the most part quartan fever. Slaves especially were dying; there were piles of their unburied bodies along all roads. Libitina did not suffice even for the funerals of free people. Decay consumed the corpses, untouched by dogs and vultures. There was broad consensus that neither in the present nor in the previous year, was a vulture seen anywhere amid so great a destruction of cattle and men.

When no end came to the pestilence, the Senate decreed that the Xviri approach the Sibylline books. By their decree there was a supplicatio for one day, and while Quintus Marcus Philippus was dictating the ritual words, the people undertook a vow in the forum that they would hold religious holidays and a supplicatio for two days, if the disease and plague should be removed from the territory of Rome.
2. in the territory of Veii a boy was born with two heads
3. and at Sinuessa another with one hand
4. and at Auximum a girl with teeth
5. during the day-time with the sky clear an arc was extended above the temple of Saturn in the Roman Forum and three suns shone at the same time
6. and the same night several torches plunged through the sky
7. the people of Lanuvium
8. and of Caere were insisting that in each of their towns a crested snake flecked with golden spots had appeared
9. there was broad consensus that in rural Campania an ox had spoken

On the Nones of June, the ambassadors returned from Africa.

## Comments:

## A. Context

Eight further prodigies are introduced extremely abruptly after Livy's account of a spreading plague which apparently graduated to prodigial status. All of the prodigia were processed at the beginning of the consular year. 7 and 8 certainly and 6 probably were aggregated from C175.

## B. Prodigies

1. Resorting to the Sibylline books all but guarantees that the plague had been upgraded to a prodigium once it had spread from animals to human beings and there was no sign of its abating.

2, 3, and 4. See on C209,11.
5. Given a clear sky, the arcus has to be a solar optical phenomenon. For an indubitable instance of the word applied to a component, in this case circular, of a halo display, see Velleius, 2,59.6. The ring concerned, pretty certainly the $22^{\circ}$ halo, was coloured. Solar haloes are arcs frequently display some or all of the colours of the spectrum.
 Associated, for example, with a brilliant $22^{\circ}$ halo
observed from Belfast on Juiy 17, 1883 were brick red, yellow, green, and blue 〔Rollo Russell (1888), p. 267]. The arcus of C174,5 is also likely to be the $22^{\circ}$ halo. Two parhelia were part of the same display.
6. The bolides are likely to have been components of a meteor shower. The most obvious candidate is the Lyrids. In that case the report has to relate to 25th March, 175 BCEJ $=$ Quintilis 15 C 175 . The Lyrid shower of 25 th March $174 \mathrm{BCEJ}=$ Quintilis 3 C 174 has to have occurred well after the processing of prodigies by
 the incoming consuls.

7 and 8. The two prodigies must have been aggregated from actual spring, summer or early autumn months of C 175 . If the matter of the crest were disregarded, then the leopard snake, rare in Italy, is an obvious candidate. The inclusion in the reports of a crest may be attributed to hysteria associated with the observation of an unusual snake. It is impossible to say whether Lanuvium or Caere furnished the first of the two reports.
9. See on C214,12.

## C. Expiation

Forthcoming about attempts to expiate the pestilentia, Livy is silent about expiatory muasures in connexion with the eight following prodigies.
//. ObSEQUENS, P.L. 10:

1. gravi pestilentia hominum bovumque cadavera non sufficiente Libitina cum iacerent, vulturius non apparuit.

## Translation:

1. when in the course of a severe plague that afflicted men and cattle, corpses were lying epxad because Libitina did not suffice. No vulture appeared.

## Comment:

The extant text of Obsequens includes no prodigy lists for any of the years from C174 to C168 inclusive. The absence is obviously due to damage to the MS upon which the Aldine edition was based, rather than repeated carelessness on the epitomator's part.

## Consuls: L. Postumius Albinus, M. Popillius Laenas.

## I. LIVY, 42,2.1-7:

principio huius anni legati qui in Aetoliam et Macedoniam missi erant renuntiarunt. $\qquad$ cum bellum Macedonicum in expectatione esset, priusquam id susciperetur, prodigia expiari pacemque deum peti precationibus, qui editi ex fatalibus libris essent, placuit.

1. Lanuvi classis magnae species in caelo visa dicebatur
2. At Priverni lana pulla terra enata
3. et in Veienti apud Kementem lapidatum:
4. Pomptinum omne velut nubibus lucustarum coopertum esse
5. in Gallico agro, qua induceretur aratrum, sub existentibus giaebis pisces emersisse
ob haec prodigia libri fatales inspecti, editumque ab decemviris est et quibus dis quibusque hostiis sacrificaretur, et ut supplicatio prodigiis expiandis fieret, alteraque quae priore anno valetudinis populi causa vota esset, ea uti fieret feriaeque essent. itaque sacrificatum est ut decemviri scriptum ediderant.

## Translation:

At the beginning of this year, the ambassadors who had been sent to Aetolia and Macedonia reported back. ... There was expectation of war in Macedonia. Before its undertaking it was decided that the prodigies should be expiated and the peace of the gods, who had been specified on the basis of the books of destiny, shouid be zitualiy sought.

1. it was being said that at Lanuvium the semblance of a great fleet had been seen in the sky
2. that at Privernum dark-coloured wool had sprouted from the earth
3. that in the territory of Veii at Remens there had been a fall of stones
4. that the whole of the Pomptine territory had been covered by what might be described as clouds of locusts
5. and that in the ager Gallicus, wherever the plough was driven into the ground, fish had emerged beneath the existing soil

On account of these prodigies, the books of destiny were consulted, and it was proclaimed by the Xviri to what gods and with what victims there should be sacrifice, and that a supplicatio should take place for the purpose of expiating the prodigies, and that a second supplicatio which had been vowed the previous year for the sake of the health of the people should take place together with religious holidays. Accordingly sacrifice was offered as the Xviri had proclaimed in writing.

## Comment:

## A. Context

The five prodigies were processed at the beginning of the year. Given that ploughing was complete well before winter, 5 at least must have been aggregated from the previous consular year. The same is likely to be the case with 2 and 4 .

## B. Prodigies

1. See on C214,15. Yet agair: it is not specified whether the phenomenon was observed during the day or at night. If the latter, then one could think in terms of an auroral display. If the former, either a peculiar cloud formation or some kind of mirage could have provided the basis for the report.
2. This is likely to have been some kind of mould. Many moulds are capable of extremely rapid growth, and not a few have a furry appearance.
3. See on $\mathrm{C} 177,1$.
4. Despite the intrusion of velut, the insects concerned have to be locusts. For an earlier prodigial locust swarm, see on C203,3.

5. The source and nature of the fish are enigmatic. One possibility is that they fell from the sky. There have been many reports, modern and ancient, of fish falling from the sky during rain storms. Athenaeus; in his Deipnosophistae 8,333 , comments as follows on the phenomenon:


 $\sigma v \mu \beta \alpha i v o v t o s$ (Phaenias says in the second book of The Rulers of Eresus that in Chersonesus it rained fishes for three whole days. And Phylarchus in his fourth book says that certain persons have in many places seen it rain fishes and the same thing often happens with tadpoles.)

Water spouts are generally deemed responsible for such occurrences, sucking up fish from the sea or streams and then depositing them in entirely different locations. In his celebrated article, "Rains of Fishes" [Natural History 21 (1921), pp. 607-19], E.W. Gudger presents many cases of fish falls from all around the world.


Alternately, aestivating fish, awakened by heavy rain, may have begun burrowing to
the surface and have been turned up by the plough, depending on how far from a watersource this field was.
C. Expiation

Routine expiatory measures include no novendiale for the showers of stones. Evidently the authorities were unwilling to lose nine days of public business. Despite the renewed scrupulosity with respect to prodigia of the last few year, convenience dictated that at least some traditional rituals were no longer de rigueur.

After expiandis fieret the single MS has alteraque priore anno. Insertion of quae is due to Madvig. qualis would make a better supplement.

## II. OBSEQUENS

The part of Obsequens' text that would have contained a prodigy list for C 173 is lost. See above on C174.

## Consuls: C. Popillius Laenas, P. Aelius Ligus.

## I. LIVY, 42,20.1-6; 21.1:

in suspensa civitate ad expectationem novi belli,

1. nocturna tempestate columna rostrata in Capitolio bello Punico priore posita ob victoriam M. Aemilii consulis, cui collega Ser. Fulvius fuit, tota ad imum fulmine discussa est
ea res prodigii loco habita ad senatum relata est; patres et ad haruspices referri et decemviros adire libros iusserunt. decemviri lustrandum oppidum, supplicationem obsecrationemque habendam, victimis maioribus sacrificandum et in Capitolio Romae et in Campania ad Minervae promunturium renuntiarunt; ludos per decem dies lovi optimi maximo primo quoque die faciendos. ea omnia cum cura facta. haruspices in bonum versurum id prodigium, prolationemque finium et interitum perduellium portendi responderunt, quod ex hostibus spolia fuissent ea rostra, quae tempestas disiecisset. accesserunt quae cumularent religiones animis:
2. Saturniae nuntiatum erat sanguine per triduum in oppido pluvisse
3. Calatiae asinum tripedum natum
4. et taurum cum quinque vaccis uno ictu fulminis exanimatos
5. Auximi terra pluvisse
horum quoque prodigiorum causa res divinae factae et supplicatio unum diem feriaeque habitae. consules ad id tempus in provinciam non exierant.

## Translation:

The state was on tenter-hooks due to anticipation of the new war.

1. during a storm in the night the columna rostrata that had been placed on the Capitol during the first Punic war on account of the victory of the consul Marcus Aemilius, whose colleague was Servius Fulvius, was shattered completely from top to bottom by lightning

Regarded as a prodigy, the occurrence was referred to the Senate; the senators ordered that it be referred to the haruspices and that the Xviri approach the books. The Xviri reported back that the city should be purified, that a supplicatio and obsecratio should be heid, and that there should be a sacrifice with full-grown viciims both on the Capitoline at Rome and in Campania at the promontory of Minerva; in addition, beginning on the first possible day, games should be celebrated for ten days in honour of Jupiter Optimus Maximus. All these prescriptions were
carefully carried out. The haruspices responded that the prodigy concerned would have a good outcome; extension of frontiers and the destruction of enemies were portended, because the rostra which the storm had overthrown had been spoils taken from the enemy. There were other occurrences which built up religious concerns in their minds:
2. at Saturnia it had been announced that it had rained with blood for three days within the town
3. at Calatia that a donkey with three feet had been born
4. and also a bull together with five cows had been killed by a single strike of lightning
5. at Auximum that it had rained with earth

On account of these prodigies, too, religious rites were carried out; there was a one-day supplicatio and a religious festival.

So far the consuls had not departed for their province.

## Comments:

## A. Context

Livy's narrative makes it clear that all five prodigies were processed early in the consular year. Given normal breeding practice, the donkey would have been born in spring. 3, consequently, is likely to have been aggregated from C173. The same could be the case with any or all of 2,4 , and 5 .

## B. Prodigies

1. With war in Macedonia imminent, damage to a symbol of Rome's triumph in another confrontation would have caused major consternation. The pax deorum was clearly compromised, with Jupiter hinting subtly, or perhaps not so subtly, at the possibility of defeat. It is little wonder that the storm and its effects
 were elevated to the status of a prodigium.
2. See on $\mathrm{C} 214,5$. One wonders if it also rained blood outside the city walls! True or false, the occurrence would have struck the Romans as all the more menacing given the approach of war.
3. A deformed donkey not from Reate! The location of the prodigy may have contributed to the seriousness with which it was treated.
4. Jupiter expressing his disapproval again.
5. See on $\mathrm{C} 194,2$. One wonders whether a shower of stones was redefined with a view to avoiding a novendiale.

## C. Expiation

This first prodigy was of such importance that its expiation was handled separately from the others, with both the haruspices and the Xviri being consulted by the Senate. The other four prodigies appear to have received standard expiation.

## II. OBSEQUENS

The part of Obsequens' text that would have contained a prodigy list for C172 is missing. See above on C174.

# $\mathrm{C} 171=29 / 11 / 172-10 / 12 / 171$ BCEJ 

## Consuls: P. Licinius Crassus, C. Cassius Longinus.


#### Abstract

Part of Livy's account of the events at Rome during C171 is missing due to the loss of four quaternions from the only extant MS. It is possible that the lost portion of the text included a list of prodigies processed in that year. Unfortunately, the part of Obsequens' text that would have contained a prodigy list for Cl 71 is also missing (see above on C174).


$\mathrm{C} 170=11.12 .171-23 / 12 / 170 \mathrm{BCEJ}$

## Consuls: A. Hostilius Mancinus, A. Atilius Serranus.

The four lost quaternions of the only extant MS of Livy's 42nd and 43rd books which contained part of his account of events at Rome during C171 also included the historian's record of developments and activities in the city during the early months of C 170 . The lost portion of the text may have featured a list of prodigies processed close to the year's beginning. The part of Obsequens' text that would have contained a prodigy list for C170 is also missing (see above on C174).

## Consuls: Q. Marcius Philippus, Cn. Servilius Caepio.

## 1. LIVY, 43,13.1-8; 14.1:

non sum nescius ab eadem neglegentia qua nihil deos portendere vulgo nunc credant, neque nuntiari admodum ulla prodigia in publicum neque in annales referri. ceterum et mihi vetustas res scribenti nescio quo pacto antiquus fit animus et quaedam religio tenet, quae illi prudentissimi viri publice suscipienda censuerint, ea pro indignis habere, quae in meos annales referam.

Anagnia duo prodigia eo anno sunt nuntiata

1. facem in caelo conspectam
2. et bovem feminam locutam
eam publice ali
3. Minturnis quoque per eos dies caeli ardentis species affulserat
4. Reate imbri lapidavit
5. Cumis in arce Apollo triduum ac tris noctes lacrimavit
in urbe Romana duo aeditui nuntiarunt
6. alter in aede Fortunae anguem iubatum a compluribus visum esse
alter in aede Primigeniae Fortunae quae in colle est duo diversa prodigia
7. palmam in area enatam
8. et sanguine interdiu pluvisse
duo non suscepta prodigia sunt, alterum quod in privato loco factum esset
9. palmam enatam in impluvio suo T. Marcius Figulus nuntiabat
alterum quod in loco peregrino
10. Fregellis in domo L. Atrei hasta, quam filio militi emerat, interdiu plus duas horas arsisse ita ut nihil eius ambureret ignis, dicebatur
publicorum prodigiorum causa libri a decernviris aditi: quadraginta maioribus hostiis quibus diis consules sacrificarent ediderunt, et uti supplicatio fieret cunctique magistratus circa omnia
pulvinaria victimis maioribus sacrificarent populusque coronatus esset. omnia uti decemviri praeierunt facta.
censoribus deinde creandis comitia edicta sunt.

## Translation:

I am not oblivious to the fact that as a consequence of the same negligence that leads people by and large i. : hese times to believe that the gods foreshadow nothing, no prodigia are now brought to public notice and that none is recorded in contemporary annals. However, as I write of what happened in the old time past, in some strange manner my mind takes on an ancient mould and simultaneously a kind of religious awe holds me back from considering what those most experienced men of earlier times deemed a matter of public concern untvorthy to be included in my own annals.

At Anagnia, two portents were announced that year

1. a torch was observed in the sky
2. and a cow spoke
this was being fed at public expense
3. at Minturnae during the same period the sky appeared to be on fire
4. at Reate stones fell in a shower
5. at Cumae on the citadel Apoilo wept for three days and three nights
in the city of Rome two temple functionaries announced prodigia, one
6. that a crested snake had been seen by many people in the temple of Fortune
the other, two different prodigies in the temple of Fortuna Primigenia which is on the hill
7. the first was that a palm-tree had sprouted in the courtyard
8. the second that it had rained with blood in the day-time

Two prodigies were not taken up
(9.) Titus Marcius Figulus was announcing that a palm-tree had sprouted in his impluvium
this was rejected because it happened in a private place
(10.) at Fregellae, in the house of Lucius Atreus, a spear which he had bought for his son's military service vaas said to have blazed for more than two hours during the day-time in such a way that the fire consumed none of it
this was rejected because it had occurred in a non-Roman location.
On account of the official prodigies the books were approached by the Xviri; they proclaimed to what gods the consuls should sacrifice with forty full-grown victims. They proclaimed too that a supplicatio should take place; that all the magistrates should make a sacrifice with full-grown victims around all the pulvinaria and that the people should wear wreaths. Everything was done as the Xviri prescribed.

An assembly was then proclaimed for the election of the censors.

## Comments:

## A. Context

Livy's account of the events of C169 commences at $43,12.1$. The prodigies are processed very early in the year, directly after the assignment of provinces and the allotment of troops. Given correspondence of the Ides of March C169 with the winter solstice, 6 must have been aggregated from the previous consular year. The same may be the case with some or all of the other prodigies.

The list of phenomena is prefaced by the key passage in which Livy dilates on his reasons for including prodigies in his annals.
B. Prodigies

1. Once again the fax should be a bright boiide.
2. See on $\mathrm{C} 214,12$.
3. If the phenomenon was observed during the night, an auroral display or a meteor shower is once again the most likely candidate.
4. See on $\mathrm{C} 218,8$.
5. See on C217,16.
6. Unlike the snakes of C174,6 and 7, the reptile concerned was apparently not spotted.
7. Palm-trees were associated with victory, either athletic or military. For further, see Tarbell (1908).
8. It is unusual that occurrence during the day is specified. Were many alleged blood rains nocturnal? If so, was the only evidence for them a deposit observed on the ground in the early morning? Such questions lead one to consider the possibility of frequent fraud. See on C214,5.

(9.) Unusual phenomena observed on the private property of citizens were not considered to have an impact on the public welfare and so were not officially processed and expiated. Individuals were free to expiate such personal prodigies as they saw fit.
(10.) Unusual phenomena witnessed at places not closely connected with Rome were also not felt to be her concern. Fregellae was felt to be so connected when prodigies from there were accepted in C211 and C206 but by C169 it had become alienated; see further MACBAIN (1982), pp. 28-30. The occurrence itself was presumably a case of St Elmo's fire for which compare C214,2. It would heip to know where the spear was placed.

## C. Expiation

The expiatory rites are routine once again. No novendiale was prescribed for expiation of the rain of stones.
II. LIVY, 44,18.6:
bis in exitu anni eius lapidatum esse nuntiatum est
11. in Romano agro
12. simul in Veientibus
novendiale sacrum factum est

## Translation:

At the end of the year it was announced that stones had fallen
11. in the territory of Rome
12. and simultaneously among the Veientines

A sacred novendiale was held.

## Comment:

## A. Context

Normally prodigies that occurred towards the end of a consular year were held over for attention at the beginning of the next. The immediate processing and expiation of late showers of stones at two separate locations is indicative of extreme concern. Perhaps the authorities perceived the occurrences as indicative of divine displeasure at their failure to schedule a novendiale for the shower of stones at Reate. One, only one though, was hastily put in place.

## B. Prodigies

11 and 12. The expression is clumsy but beyond correction of esse after nuntiatum to est, and Beientibus to Veientibus, no further alterations are called for. Madvig's extensive emendations (he reads bis in exitu anmi eius lapidatum esse nuntiatum est, semel in Romano agro, semel in Veienti. bis novendiale sacrum factum est) are ingenious but gratuitous.

## C. Expiation

See A above.

## III. OBSEQUENS

The part of Obsequens' text that would have contained prodigies for C169 is missing.

## Consuls: L. Aemilius Paullus, C. Licinius Crassus.

Although the single MS has many lacunae of differing lengths throughout this year, to judge from their position and context one may say with a fair degree of certainty that it is highly unlikely that a prodigy list was also lost.

C168 was the penultimate year of the Third Macedonian War, the year in which Perseus finally met with defeat and was betrayed to the Romans. Livy devotes practically all of his narrative, which begins at 44,19 and concludes at 45,25 , to events pertaining solely to the war, which was occurring outside of Italy. Conceivably, this so engrossed the officials at Rome that they were more concerned to received bulletins from the front than to assess and process prodigy reports from Italy.

Given the lacuna in Obsequens' text that commences after C 175 , the absence of prodigia for C 168 cannot be adduced in confirmation of a Livian void.

## Consuls: Q. Aelius Paetus, M. Iunius Pennus.

I. LIVY, 45,16.5-6:
de prodigiis deinde nuntiatis senatus est consultus.

1. aedes deum Penatium in Velia de caelo tacta erat
2. et in oppido Minervio duae portae et muri aliquantum
3. Anagniae terra pluerat
4. et Lanuvi fax in caelo visa erat
5. et Calatiae in publico agro M. Valerius civis Romanus nuntiabat e foco suo sanguinem per triduum et duas noctes manasse
ob id maxime decemviri libros adire iussi supplicationem in diem unum populo edixerunt et quinquaginta capris in foro sacrificaverunt. et aliorum prodigiorum causa diem alterum supplicatio circa omnia pulvinaria fuit et hostiis maioribus sacrificatum est et urbs lustrata.

## Translation:

Next the Senate was consulted concerning the prodigies which had been reported.

1. on the Velia the temple of the divine Penates had been hit from the sky
2. and in the town of Minervium, two gates and some of the wall
3. at Anagnia it had rained with earth
4. at Lanuvium a torch had been seen in the sky
5. at Calatia Marcus Valerius, a Roman citizen, was announcing that blood had run from his hearth situated in ager publicus for three days and two nights

Particularly on account of the last stated occurrence, the Xviri were ordered to approach the books; they proclaimed a supplicatio of one day for the people and made a sacrifice with fifty goats in the forum. On account of the other prodigies, there was a supplicatio on a different day around all the pulvinaria, sacrifice was made with full-grown victims and the city purified.

## Comments:

## A. Context

Five prodigies were processed at the beginning of the consular year immediately after assignment of provinces to incoming consuls and other magistrates. The first four are likely to have been aggregated from the previous consular year. One gets the impression from nuntiabat that the fifth was extremely recent.

## B. Prodigies

1. See on C218,4.
2. See on $\mathrm{C} 214,10$.
3. See on C194,2.
4. See on $\mathrm{C} 217,7$. The bolide was probably witnessed at night but a daylight observation is not out of the question.
5. It is clearly stated that this prodigy occurred in publico agro, on state land, so that what may at first sight appear to be a private prodigy relating to the individual, Marcus Valerius, could be accepted as a public prodigy impinging on the whole republic. As has been said before, the appearance of blood, particularly in an unusual place, was a particularly negative omen. This prodigy was probably the result of heavy rains, swelling
to overflow an underground stream, which seeped under Valerius' house and came out from what must have been the weakest point, the hearth.

## C. Expiation

The final prodigy was held to require special attention, with the Xviri consulting the Sibylline books and sacrifices being made specifically for it. For the other prodigies, none of them unique, routine expiatory measures were sufficient.
II. ObSEQUENS, P.L. 11:

1. Romae aliquot loca sacra profanaque de caelo tacta
2. Anagniae terra pluit
3. Lanuvi fax ardens in caelo visa
4. Calatiae in agro publico per triduum et duas noctes sanguis manavit

## Translation:

1. at Rome several places both sacred and profane were hit from the sky
2. at Anagnia it rained with earth
3. at Lanuvium a blazing torch was seen in the sky
4. At Calatia in ager publicus blood ran for three days and two nights

## Comments:

Obsequens collapses Livy's 1 and 2 and makes Rome the location of occurrences reported from Velia and Minervium respectively. Did he suppose that the two places were suburbs of the city? Lanuvi is Perizonius' emendation of Lavini of the Aldine edition. It is possible that Obsequens was careless and that the original reading should stand. At 4 (= Livy 5) Obsequens loses sight of Valerius' home and hearth. The omission dictates caution in assuming that any prodigial report in post-consular 167 notices in Obsequens is anything approaching a precise reflexion of the lost Livian original.

Section Two

Other Sources

# Chapter Seven 

## Valerius Maximus, Pliny, Plutarch, and Cassius Dio

## A. Preface

In addition to Livy, four other ancient writers include in one or more of their wu. $\therefore$ accounts of prodigia reported during the period $218-167$ BCE. In chronological order, the authors involved are the miscellanist Valerius Maximus, the encyclopædist Pliny, the biographer and essayist Plutarch and the late imperial narrative historian Cassius Dio. Each is dealt with in a separate section divided into two parts. The first part consists of a functional biography of and other essential background information relating to the author concerned; the second deals with all relevant prodigial material included in his extant writings. In all four cases, the contents of the second part include the original texts of passages relating to prodigia, English translations of the same, and comments. Much of the comment revolves around contact points between prodigial material in Valerius, Pliny, Plutarch and Cassius Dio and counterpart representations in Livy. A final section is concerned with the bearing of the nonLivian prodigial material as a whole on the completeness or otherwise of the prodigy lists in Livy.

## B. Valerius Maximus

## 1. Valerius Maximus and his writings

Valerius Maximus, praenomen either Marcus or Publius, flourished during the reigns of the early Julio-Claudian emperors. Certain passages in his work strongly suggest that he dedicated it to Tiberius, with cutting invective concerning a parracide and therefore referring to the notorious Sejanus. Neither the date of Valerius' birth nor of his death is anywhere recorded. In fact, personal details about the man are sadly lacking and those that exist have been gleaned from inferences in his writing, a miscellany of rhetorical and historical anecdotes. A single dateable circumstance pertaining to himself is recorded: he accompanied, in an unknown capacity, a certain Sextus Pompeius to Asia. This Sextus Pompeius can be identified with the consul of 14 CE who later became proconsul of Asia.

Was Valerius Maximus a man of wealth and position, or of poverty and subservience? The language used in relevant sections, though in some sense smacking of servility, does not point either way, but there is a reference in the preface to the chapter pertaining to fraternal devotion $(5,5)$ to ancestral busts: parem ex maiorum imaginibus gloriam traxi - I inherited equal glory from the busts of our ancestors. As only those whose forefathers had held curule aedileships were permitted to display these imagines maiorum, this points to Valerius Maximus as being a descendent of a
family of senatorial rank. ${ }^{1}$ Other information concerning his family and career are lacking.

The work by which Valerius Maximus is remembered is his de Factis Dictisque Memorabilibus Libri IX, a collection of miscellaneous anecdotes, with the words and deeds of notable Romans being kept distinct from those of foreigners and outnumbering them two to one. It is organized, if that is the right word, into nine books, some of which comprise closely allied topics while others contain diffuse subject matter. The first book, for example, deals more or less exclusively with religious matters while the seventh ranges across, among other things, good fortune, strategems, electoral defeats and wills that were broken. Most of the stories serve to illustrate some moral principle, and simplicity and probability are often sacrificed on the altar of sensationalism.

Valerius himself says in the preface that:
Urbis Romae exterarumque gentium facta simul ac dicta memoratu digna, quae apud alios latius diffusa sunt, quam ut breviter cognosci possint, ab inlustribus electa auctoribus digerere constitui, ut documenta sumere volentibus longae inquisitionis labor absit (The Memorable Words and Deeds of the men of Rome are scattered throughout various authors and cannot easily be found, so I have decided to undertake a compilation from distinguished authors to spare those requiring proofs the labour of long research.)

As he does not say from which particular author he extracted each story, it is very difficult to identify which inlustres auctores were used by him. It is beyond reasonable doubt that Livy was one of them.

Valerius' work was referred to by such as Pliny the Elder and Plutarch, and continued its popularity into the mediæval and Renaissance period. Some epitomes

[^138]were created, one by Julius Paris in the third century CE, another by Januarius Nepotianus, dated a little later and covering only the first two and part of the third books. The lacuna in all surviving manuscripts of the unabridged Valerius Maximus (1.1 ext. 4 to 1.4 ext. 1) is usually filled with one of these epitomes.

## 2. Prodigial Material

## Text:

VALERIUS MAXIMUS, de Factis Dictisque Memorabilibus, 5,6.5:
...monstra alio tumultu credita sunt.

1. puerum infantem semenstrem in foro boario triumphum <clamasse >
2. alium cum elephantino capite natum
3. in Piceno lapidibus pluisse
4. in Gallia lupum vigili e vagina gladium abstulisse
5. in Sardinia scuta duo sanguinem sudasse
6. Antii metentibus cruentas spicas in corbem decidisse
7. Caerites aquas sanguine mixtas fluxisse
8. bello etiam Punico secundo constitit Cn. Domiti bovem dixisse "cave tibi, Roma."

## Translation:

Portents attracted belief during another upheaval.

1. an infant of six months had cried "triumph!" in the cattle market
2. another was born with the head of an elephant
3. in the Picentian country it rained with stones
4. in Gaul a woif carried away the sword from the sheath of a sentry
5. in Sardinia two shields sweated blood
6. at Antium bloody ears of corn fell into the baskets of harvesters
7. the waters at Caere had flowed mixed with blood
8. also during the Second Punic war it was established that an ox of Cn . Domitius had said, "Rome, look out for yourself."

## Comment:

In the section of his work entitled de prodigiis, Valerius notes portents associated with the Veientine $(5,6.3)$ and Social wars $(5,6.4)$, and then, after an aside dealing with a strange occurrence in the consular year of P. Volumnius and Ser. Sulpicius (C461), lists prodigia reported in connexion with another upheaval (alio tumultu). The disturbance concerned, it emerges à propos the eighth item, actually a cuckoo in the nest, is the Second Punic war.

Comparison with the consular year by consular year prodigial record in Livy reveals that each member of Valerius' octet has a precise counterpart couched in exactly or almost exactly the same words. Equivalences are tabulated in the following concordance.

| Valerius Maximus | Livy |
| :---: | :---: |
| 1 | C218,1 |
| 2 | C209,11 |
| 3 | $\mathrm{C} 218,8$ |
| 4 | $\mathrm{C} 218,10$ |
| 5 | $\mathrm{C} 217,4$ |
| 6 | $\mathrm{C} 217,13$ |
| 7 | $\mathrm{C} 217,11$ |
| 8 | $\mathrm{C} 192,5$ |

The obvious conclusion from the consequences overall is that the eight prodigies in the left-hand column are a cluster drawn by Valerius from Livian lists relating to four different consular years, all of which he believed to fall within the period of Rome's second war with Carthage. In respect of one of the years, C192, Valerius was mistaken. B̀y C192, the Second Punic war was well and truly over.

## C. Pliny

## 1. Pliny and his writings

Born in 23 CE into an equestrian family in northern Italy, Caius Plinius Secundus came to Rome while still young and received an education from the best teachers available in the city. At the age of 23 he served as a soldier in Germany, during which time he wrote a monograph of throwing javelins from horseback (de Jaculatione equestri) and began a history of the Germanic wars. Returning to Rome in 52 CE , he embarked on the practice of jurisprudence though gained no particular distinction in this field. Pliny spent most of Nero's reign in retirement, probably outside of Rome. In contract to those remarks in the Naturalis Historia (N.H.) pertaining to other emperors, those relating to Nero generally possess an unfavourable flavour, 'and Beagon suggests that this could be due to "feelings of guilt and self-justification" stemming from Pliny's possible official activity in the early years of Nero's reign. ${ }^{2}$ In the last years of the principate of Nero, Pliny produced two more works, a six-volume piece on the training of a young orator called Studiosus, and an eight-volume grammatical treatise, Dubius Sermo, which, his nephew comments, scripsit sub Nerone novissimis annis, cum omne studiorum genus paulo liberius et erectius periculosum servitus fecisset (this he wrote during Nero's last years when the slavery of the times made it dangerous to write anything at all independent or

[^139]inspired). ${ }^{3}$ Around this time too he became Procurator in Spain, returning to Rome in the early 70s when Vespasian had attained the principate. He adopted his sister's son, whose father had died in 71 CE , and entered into the new princeps' intimate circle, having served with the future emperor, Titus, in Lower Germany many years earlier. During this period he wrote a 31-book continuation of the history of Aufidius Bassus down to his own time. ${ }^{4}$

Throughout his life, Pliny had always fostered an intense interest in study and devoted much time to its pursuit. He slept little, studying by candle-light at night, and before dawn he would see the emperor Vespasian and discharge the duties required of him, devoting the rest of the day to study. Even while relaxing in the sunshine he would have something read to him and take notes from it. During meals he would be read to, and even during his bath he would dictate. When travelling about Rome, he would be carried in a chair so that he could give every minute to work. Pliny the Younger wrote a letter detailing his uncle's work habits, including a little tale about himself which well encapsulated his uncle's views: Repeto me correptum ab eo, cur ambularem: "poteras" inquit "has horas non perdere"; nam perire omne tempus arbitrabatur, quod studiis non impenderetur (I can remember how he scolded me for walking; according to him I need not have wasted those hours, for he thought any time wasted which was not devoted to research). ${ }^{5}$ As a result of his incessant note-taking, on his death Pliny left his nephew 160 notebooks, written in a minute hand on both sides of the page. It is a lamentable fact that of all of his writing, the 37 -book encsclopædia, Naturalis Historia, wherein he purports to discuss natural phenomena in which mankind had no apparent hand, is the only one to

[^140]survive. What a mass of fragments from both extant and lost books would be preserved! From the titles given to Titus in the preface of the Naturalis Historia, it must have been published in about 77 cE , just two years before Pliny's remarkable death.

In late August, 79 CE , on noticing the eruption of Vesuvius, the scholar in Pliny compelled him to study the phenomenon more closely. Having received from Vespasian the command of the fleet stationed at Misenum, he was in the position to order a ship to sail him to Stabiae. Unfortunately he lingered too long there and the sea became too tempestuous to allow him to set sail and escape. He apparently suffocated, the gases and vapours from the volcano overwhelming his naturally weak lungs.

Despite his passion for study, Pliny's habits did not allow for him to be either original or discriminating in his composition. Although he amassed vast quantities of material, it was for the most part second-hand, augmented on occasion by his own knowledge and experiences. He lacked judgement in the selection of his material and incorporated much false information among the true. Being deficient in knowledge of scientific matters, he found himself rather at the mercy of those authors whose literature he plundered. Pliny also allowed his fascination with the unusual, his contempt of human nature, his belief in the wickedness of man and his distrust of the arrangement of Providence to dictate the shape of his work. As well as using the published writing of all those whose work he deemed it important both to preserve and transmit, he also pressed into service myths and folktales, presenting traditionai teiefs as truths ${ }^{6}$ and thereby allowing questionable episodes to reflect negatively on the overall production. On occasion he relays criticisms of authors about certain points they presented but he does so in an erratic and haphazard fashion. Those authors whom Pliny consults are enumerated

[^141]in book 1 of the N.H. The subjects treated in each book are succeeded by what appears to be a comprehensive list of authorities. He mentions the reason for this in his preface:?

> Argumentum huius stomachi mei habebis quod his voluminibus auctorum nomina praetexui. est enim benignum - ut arbitror - et plenum ingenui pudoris fateri per quod profeceris, non ut plerique ex his quod attigi fecerunt. scito onim conferentem auctores me deprehendisse a iuratissimis et proximis veteres transcriptos ad verbum neque nominatos... (You will deem it a proof of this pride of mine that I have prefaced these volumes with the names of my authorities. I have done so because it is, in my opinion, a pleasant thing and one that shows an honourable modesty, to own up to those who were the means of one's achievements, not to do as most of the authors to whom I have referred did. For you must know that when collating authorities I have found that the most prof asedly reliable and modern writers have copied the old authors word fo: work. without acknowledgment. ।

It is unfortunate thas in his attempt to include every ancient author and cover every area of natural history he was unable to separate the craff from the grain. Obscure and confused passages are not uncommon and, as will emerge, there are clear errors in respect of prodigies claimed to have occurred during the period with which this thesis is concerned.

[^142]
## 2. Prodigial Material

1. C 201

Text:

PLINY, N. H. 18,166:

1. Ex frugibus ostentum semel, quod equidem invenerim, accidit P. Aelio Cn. Cornelio cos., quo anno superatus est Hannibal: in arboribus $e^{-r i m}$ tum nata produntur frumenta.

## Translation:

1. The oniy purtent arising from crops that I for my part have come across occurred in the consulship of Publius Aelius an: Gnaeus Cornelius, the year in which Hannibal was overcome: it is handed dowa that on that occasion grain started growing on trees.

## Comment:

Livy lists no prodigia for the consular year concerned and the question consequently arises as to whether he has failed to incorporate at least one prodigy recorded in the pontifical chronicles.

According to Obsequens, P.L. 27 (drawing on
 the lost 56th book of Livy's history) and P.L. 30 (drawing on Livy's lost 59th and 60th books) respectively, grain grew on trees during the consular year of Servius Flaccus and Quintus Calpurnius (C135) and that of Marcus Aemilius and Lucius Aurelius (C125).

Since Pliny certainly combed the whole of Livy in search of data, his recollection that the phenomenon was recorded only once is false. Given one memory lapse on Pliny's part in connexion with the grain on trees prodigy, another becomes not improbable. If he is also wrong about the names of the attached consuls, then it becomes unnecessary to countenance Livian omission of a prodigy that occurred in C201.

## 2. C174

Text:

PLINY, N. H. 2.99:

1. tuituris oies antiqui saepius videre, sicut Sp . Postumio Q . Mucio... consulibus

## Translation:

1. in early times three suns were quite often observed; for example, when Sp. Postumius and Q. Mucius were consuls.

## Comment:

The same prodigy is recorded by Livy for the same year; see Livy C174,6.


## 3. C171

Text:

PLINY, N. H. 7.36:

1. invenimus in annalibus P. Licinio Crasso C. Cassio Longino coss. Casini puerum factum ex virgine sub parentibus iussuque haruspicum deportatum in insulam desertam

## Translation:

1. We find it recorded in the Annals that when Publius Licinius Crassus and Caius Cassius Longinus were consuls, at Casinum, an unmarried girl still under her parents' care became a boy; by order of the haruspices he was removed to a desert island.

## Comment:

The annals to which Pliny refers will be the Annales Maximi.
No prodigies are in evidence in the extant portion of Livy's account, which straddles books 42 and 43 , of the events of the consular year concerned. Given the loss of four quaternions of book 43 which certainly, inter alia, with activities of C171 at Rome, it by no means follows that no prodigia were recorded. If a group did feature in the lost leaves it could well have included the sex change at Casinum. In view of the incomplete state of he text the absence of C171 prodigies from Obsequens' P.L. is not significant.

The expiation is noteworthy. One would expect prescription of drowning rather than exposure.

## Addendum:

## C217

Text:

PLINY, N.H. 2,200:
maximus terrae memoria mortablium motus... Tiberii Caesaris principatu... creberrimus Punico bello intra eundem annum septies ac quinquagies nuntiatus Romam quo quidem anno ad Trasimenum lacum dimicantes maximum motum nec Poeni sensere nec Romani.

## Translation:

The greatest earthquake in human memory occurred in the principate of Tiberius Caesar... the most numerous tremors during the Second Punic war when 57 were reported at Rome in a single year, the year when a considerable shock was noticed by neither Carthaginians nor Romans fighting at Lake Trasimene.

## Comment:

No earthquakes feature in Livy's lists of prodigies accepted in either C217 or C216.
If some of the 57 reports of shocks were prodigial reports rather than mere announcements of occurrence, then they were rejected by the civil and religious authorities. Given the elaborateness and protracted period of expiation of prodigies processed early in C 217 , such a reaction is not entirely surprising.

## D. Plutarch

## 1. Plutarch and his writings

Details pertaining to Plutarch's life have to be gleaned from oblique references found in his own writings. It is a shame that the biographer of so many should leave no biography of himself.

Plutarch was born at Chaeroneia, a small town in northern Boeotia in Greece around the first century CE, near the end of the reign of Claudius. His was a family of considerable means and he was well-educated, studying at the great university town of Athens under the tutelage of Ammonius of Lamptrae, a Peripatetic philosopher well versed in religious lore. As a young man he was called upon to represent his native town to the Reman proconsul. At around 95 CE he became a priest of Delphi and apparently held that office until his death. Having travelled extensively around Greece, he visited Egypt and Asia Minor, as well as Italy where he resided at Rome between, approximately, 75 and 90 CE . He never mastered Latin but lectured in Rome in his ovn tongue. During his sojourn at Rome he made the acquaintance of tine prominent Romans of the day, such as Iunius Arulenus Rusticus (praetor 69 CE ), C. Minucius Fundanus (consul 107 CE and proconsul or Asia), and Q. Sosius Senecio (consul 99 CE and 107 CE ). At some time he married a woman by name of Timoxena with whom he had at least four sons (Autobulus, Plutarch, Suclarus, Chaeron) and one daughter, also named Timoxena, whose death in early childhood induced him to write a touching letter of consolation to his much loved
wife ( $\pi \alpha \rho \alpha \mu \nu \theta \eta \pi \kappa \kappa \grave{\varrho} \varsigma \pi \rho o ̀ \varsigma ~ \tau \grave{\eta} \nu \gamma u \nu \alpha i ̂ \kappa \alpha$ ). There is no record of any other children, nor is there indication as to whether those attested lived to adulthood.

Fond of his native town, Plutarch spent the latter half of his life there, where he wrote, lectured, and performed various religious or civil daties. His writings have come down to us through the centuries in two groups, one a collection of lectures, letters and essays traditionally entitled the Moralia, and the other, for which he is chiefly known, The Parallel Lives of Greeks and Romans. The Moralia, largely composed prior to the Lives, have much in common with the latter, as Plutarch illustrates certain ethical points with concrete stories which appear in the later work, Lives. There are mini-monographs touching on many subjects, especially philosophy and ethics, but also music, archaeology, education, philology, physics, and mathematics, together with personal letters and anecdotes. The Lives were written to show the greatness of the ancient Greeks and Romans. They are arranged in pairs. Each pair consists of the life of a Greek and the life of a Roman and concludes with a comparison of the two men. As well as these pairs, four single lives are extant: Artaxerxes Mnemon, Aratus, Galba and Otho. At least one pair of Lives, Scipio Africanus the Elder and Epaminondas, is unfortunately lost, as well as probably non-paired Lives of the Roman emperors from Augustus to Nero, and of Vitellius, Hesiod, Pindar, Crates the Cynic, Daiphantus, Aristomenes and the poet Aratus.

The authorities consulted by Plutarch for the composition of his Lives number about two hundred and fifty (including Livy and Polybius). Eighty of these are writers whose work is partially or entirely lost. If, as is commonly supposed, he had written the Lives during his retirement in Chaeroneia, then Plutarch must have had access to a good library, but it is possible that he had already begun collecting data long before he set about the actual composition of the work. As an educated man, he would have been quite familiar
with the sources for his Greek Lives and although he confessed in his introduction to the Life of Demosthenes that he knew Latin imperfectly, he handled the Roman sources competently, if slightly less critically than their Greek counterparts, though he uis aware in both cases of the difficulties inherent in using sources:
$\gamma \nu \omega \dot{\omega} \epsilon \ell \tau \hat{\omega} \nu \pi \rho \alpha \gamma \mu \alpha \dot{\sigma} \tau \omega \nu, \dot{\eta} \delta \grave{\epsilon} \tau \bar{\omega} \nu \pi \rho \alpha \xi \epsilon \omega \nu$ к $\alpha \grave{\imath} \tau \bar{\omega} \nu \beta i \omega \nu \nu \dot{\eta} \lambda l \kappa l \omega \bar{\omega} \tau \iota \zeta$
$\kappa о \lambda \alpha к \epsilon \dot{v} о \nu \sigma \alpha$ $\lambda \nu \mu \alpha i \nu \eta \tau \alpha \iota \kappa \alpha \grave{\imath} \delta \iota \alpha \sigma \tau \rho \in ́ \phi \eta ~ \tau \grave{\eta} \nu \dot{\alpha} \lambda \dot{\eta} \theta \epsilon \iota \alpha \nu$ (to such degree,
it seems, is truth hedged about with difficulty and hard to capture by
research, since those who come after the events in question find that lapse
of time is an obstacle to their proper perception of them; while the research
of their contemporaries into men's deeds and lives, partly through envious
hatred and partly through fawning flattery, defiles and distorts the truth.)
(Pericles 13,12).

Despite having a relatively superficial acquaintance with the early history of Rome, Plutarch appears to make few errors about Roman institutions and those mistakes that are present do not detract from the general impression.

In his introduction to the Life of Alexander, 1,1-3, Plutarch explains that he did not intend to write history but rather to paint the portraits of men by delineating their characters rather than their deeds:
 $\pi \rho \dot{\alpha} \xi \in \sigma \iota \quad \pi \alpha \dot{\alpha} \nu \tau \omega \varsigma \check{\epsilon} \nu \epsilon \sigma \pi \iota \quad \delta \tilde{\eta} \lambda \omega \sigma \iota \varsigma \quad \dot{\alpha} \rho \epsilon \tau \bar{\eta} \varsigma \quad \hat{\eta} \kappa \alpha \kappa i \alpha \varsigma, \dot{\alpha} \lambda \lambda \dot{\alpha} \quad \pi \rho \hat{\alpha} \gamma \mu \alpha$
 $\mu \hat{\alpha} \lambda \lambda o \nu \quad \grave{\eta} \mu \dot{\alpha} \chi \alpha \iota \quad \mu \nu \rho \iota o ́ v \in \kappa \rho \circ \iota \quad \kappa \alpha \grave{\imath} \quad \pi \alpha \rho \alpha \tau \alpha \dot{\beta} \epsilon \iota \varsigma \quad \alpha i \quad \mu \epsilon ́ \gamma \iota \sigma \tau \alpha \iota \quad \kappa \alpha i$




 $\dot{\alpha} \gamma \hat{\omega} \nu \alpha \varsigma$ (For it is not Histories that I am writing, but Lives; and in the most illustrious deeds there is not always a manifestation of virtue or vice, no, a slight thing like a phrase or jest often makes a greater revelation of charactei than battles where thousands fall, or the greatest armaments, or sieges of cities. Accordingly, just as painters get the likenesses in their portraits from the face and the expression of the eyes, wherein the character
shows itself, but make very little account of the other parts of the body, so I must be permitted to devote myself rather to the signs of the soul in men, and by means of these to portray the life of each, leaving to others the description of their great contests).

Due to this programme, important historical events are frequently noticed en passant, if at all. On occasion chronology becomes a little disordered, but the overall result, the portraits of the great Greek and Roman men selected, is a work that is interesting, intelligent and entertaining, revealing a deep humanity and commendable honesty of purpose.

## 2. Prodigial Material

1. C 217

Text:

## Plutarch, Fabius Maximus, 2.3:



 $\dot{\alpha} \pi \grave{o}$

1. $\kappa \epsilon \rho \alpha v \nu \bar{\omega} \nu$





2. $\dot{\epsilon} \kappa \pi i \pi \tau \epsilon \iota \nu \kappa \alpha \grave{\imath} \delta \iota \alpha \sigma \pi \epsilon i \rho \epsilon \sigma \theta \alpha \iota \pi о \lambda \lambda \grave{\alpha} \gamma \rho \alpha \mu \mu \kappa \tau \epsilon \hat{i} \alpha$, к $\alpha \grave{i} \tau о и ̆ \tau \omega \nu \dot{\epsilon} \dot{\ell} \nu \dot{\epsilon} \nu \grave{\imath} \gamma \epsilon \gamma \rho \alpha \mu \mu \epsilon ́ \nu \sigma \nu$ $\phi \alpha \nu \hat{\eta} \nu \alpha \iota \kappa \alpha \tau \grave{\alpha} \lambda \epsilon \in \xi \iota \nu$. " "A $\rho \eta \varsigma ~ \tau \grave{\alpha} \dot{\epsilon} \alpha \nu \tau o \hat{v}$ ö $\pi \lambda \alpha \sigma \alpha \lambda \epsilon \dot{\prime} \epsilon \iota$. "

## Translation:

When Hannibal invaded Italy, won his first battle at the Trebia, and marched through Etruria, laying everything waste as he went, the Romans were filled with consternation and fear. Prodigies occurred, some of the type familiar to the Romans, involving

1. lightning strikes
some completely out of the ordinary and with considerable strangeness
2. shields were said to have become moist with blood of their own accord
3. and at Antium ripe ears of corn were harvested covered in blood
4. and fiery and blazing stones were deposited from the air
5. the sky above Falerii appeared to gape open
6. many inscribed tablets fell out of their container and were scattered around, and on one of these appeared to be written the words, "Mars is shaking his weapons."

## Comment:

Items 2-6 in the passage from Plutarch's Life of Q. Fabius Maximus have direct counterparts in Livy's list of prodigies processed and expiated in C217. P2 corresponds to Livy C217,4 with the locale, Sardinia, omitted from the former. P3 corresponds to Livy C217,13. P4 corresponds to Livy C217,7 with the Plutarchean version including two equivalents, $\delta \iota \alpha \pi \dot{v} \rho o u \varsigma$ and $\phi \lambda \epsilon \gamma \sigma \mu \epsilon \in \nu o u s$ for Livy's ardentes. P5 corresponds to Livy
$\mathbf{C} 217,14$. P6 corresponds to Livy C217,15 with Plutarch's version omitting reference to the lots shrinking and stating that they were scattered around after emerging from their container. Given the C 217 context of P2-6, it is natural to see P1 as an abbreviated reflexion of Livy C217,5 for the same year. There is nothing to counterindicate parsimonious inference that Livy was Plutarch's source. In respect of item 6, the latter either ignored or failed to understand Livy's adtenuatas and added $\delta_{i} \alpha \sigma \pi \epsilon i \pi \epsilon \sigma \theta \alpha t$ by way of explaining better what he took to be the scenario. Plutarch also thematically rearranged his six selected prodigies. The two items involving blood were juxtaposed and so also the two celestial phenomena.

## 2. C216

Text:

Plutarch, Fabius Maximus, 18:



## Translation:

1. Having found that two of the vestal virgins had sexual intercourse, they buried one alive, as is the custom, the other one died by her own hand.

## Comment:

Without spelling out that the Vestals' behaviour was treated as a prodigy, Plutarch reflects Livy C216,6.

## 3. C208

## Text:

Plutarch, Marcellus, 28,2:
$\pi o \lambda \lambda \grave{\alpha} \sigma \eta \mu \epsilon \hat{\alpha} \alpha \delta_{\iota \epsilon \tau \alpha ́ \alpha} \alpha \tau \tau \tau \epsilon \nu \alpha \dot{\chi} \tau o ́ \nu$

1. $i \epsilon \rho \hat{\omega} \nu \tau \iota \nu \omega \nu \kappa \epsilon \rho \alpha \nu \nu \dot{\omega} \sigma \epsilon \iota \zeta$
2. $\kappa \alpha i \not \mu v ́ \epsilon \varsigma ~ \tau o ̀ \nu ~ \dot{\epsilon} \nu \Delta i o ̀ \varsigma ~ \chi \rho v \sigma o ̀ \nu ~ S ı \alpha \phi \alpha \gamma o ́ v \tau \epsilon \varsigma ~$

3. к $\alpha \grave{\imath} \pi \alpha \iota \delta i o \nu$ ě $\chi о \nu ~ к \epsilon \phi \alpha \lambda \grave{\eta} \nu \dot{\epsilon} \lambda \epsilon ́ \phi \alpha \nu \tau о \varsigma ~ \gamma \epsilon \nu \epsilon ́ \sigma \theta \alpha \iota$
 $\kappa \alpha \tau \epsilon i ̄ \chi o \nu \alpha \dot{v} \tau \grave{\nu} \nu \dot{\epsilon} \nu$ ' $\mathrm{P} \hat{\omega} \mu \eta \sigma \pi \alpha \rho \gamma \hat{\omega} \nu \tau \alpha \kappa \alpha \grave{\imath} \phi \lambda \epsilon \gamma o ́ \mu \in \nu о \nu$.

## Translation:

Many other portents distitied him

1. lightning strikes at certain cemples
2. mice having eaten the gold in the temple of Jupiter
3. It was reported also that an ox had uttered human speech
4. And that a boy had been born with an elephant's head

When the priests got bad results with respect to their sacrifices and expiations, they kept him [Marcellus] in Rome, bursting and eager to set out.

## Comment:

All four items in the passage from Plutarch's Life of Marcellus have direct counterparts in Livy's lists of prodigies processed and expiated in C209 and C208. P3 corresponds to Livy C209,7 with the locale, Privernum, omitted. P4 corresponds to Livy C209,11 with the locale, Sinuessa, omitted. P2 corresponds to Livy C208,2 with the locale, this time Cumae, again omitted. P1 is an abbreviated reflexion of Livy C208,1.

Once again there is no reason to doubt that Livy was Plutarch's source. It is unclear why, dealing with events of C208, Plutarch counterfactually juxtaposed two of its prodigies with two that had been processed and expiated in the previous year. Possibly dramatic considerations supplied all or some of the motivation. The C208 prodigies were not a particularly shining bunch and so Plutarch added to two chosen examples a couple of more sensational items from the previous year.

## E. Cassius Dio

## 1. Cassius Dio and his writings

The details pertaining to the life of Cassius Dio Cocceianus are extracted from his history, with his own casual remarks providing us with all we know about this historian.

He was born in Bithynia in about 155 CE, son of Cassius Apronianus, a Roman senator and governor of Cilicia and of Dalmatia. Dio received a good education, and then apparently accompanied his father to Cilicia. After the death of his father, he went to Rome in about 180 CE . He had to have attained the age of 25 by this time and gained entry to the Senate as, when writing from a senatorial perspective about
 $\pi \alpha \rho \alpha \delta o ́ \sigma \epsilon \omega \varsigma \dot{\alpha} \lambda \lambda \lambda \dot{\epsilon} \xi$ oiкєí $\alpha \dot{\eta} \delta \eta \quad \tau \eta \rho \dot{\eta} \sigma \epsilon \omega \varsigma$ (I state these and subsequent facts, not, as hitherto, on the authority of others' reports, but from my own observation).' From Pertinax ( 193 CE ) he received the praetorship, assuming office the following year under Septimius Severus (193-211 CE). Shortly after Severus' accession, Dio produced a little book on dreams and prodigies, all of which foretold the emperor's greatness, and this naturally enough was received with great favour, with Severus writing a long epistle of thanks to Dio. The night following the receipt of this letter, Dio dreamt that he was now called upon to write the history of his own time. Having already collected

[^143]much contemporary material during Commodus' reign, Dio commenced with his principate. Once again his efforts met with approbation by Severus. Such approval encouraged Dio to write a history of Rome from foundation to the present. Dio's hopes for political advancement from an emperor who initially seemed so favourably disposed to him were not to be realized. Deterioration of the relationship may be attributed to Severus' change of attitude regarding Commodus. At the beginning of his reign, Severus had hated Commodus, but in the latter part he began to admire the tyrant. Consequently the work on Commodus that Dio had produced could no longer be tolerated. Dio circumspectly withdrew from public life for the last years of Severus' reign and lived in semi-retirement on his estate in Capua, gathering and collating the material for his history, a task which reportedly occupied twelve years. A further ten were required for the actual composition of the work.

In 216 , during the reign of Caracalla (211-217 CE), Dio, as a senator, was called upon to accompany the emperor to Nicomedeia, but was not an eye-witness of other events in Asia or Egypt. In about 216 CE, Macrinus (217-218 CE), the only Roman emperor who was not a senator, gave him the position of curator ad corrigendum statum civitatium over Pergamum and Smyrna, a post which he retained for about three years, receiving continuance of it under Elagabalus (218-222 CE). In his history, he mentions having been a consul. He probably received this office shortly after the expiration of the curatorship. Following his year as consul, he received the proconsulship of Africa. On returning to Italy, he was sent out in 266 CE as governor first to Dalmatia, then, the following year, to Upper Pannonia. While in Pannonia, Dio enforced strict discipline amongst his troops and on his return to Rome, fearing that he would turn his attention to them, the Praetorians petitioned the emperor, now

Alexander Severus (222-235 CE), for Dio's death. Not only did Severus reject their demands, but in 229 he conferred a second consulship on Dio, with himself as his colleague. Given the constant enmity of the Praetorians, Dio was unable to feel comfortable in Rome and so spent much of his consulship outside of the city. Although he returned to the city after the expiration of his term of office. the precariousness of his life there did not suit him and shortly, on the pretext of a foot ailment, he obtained from the emperor permission to retire to his native city of Nicaea. He must have been, by this time, well advanced in years. He completed his history and died at some unknown date. As far as his family is concerned, we can conjecture from his work that he had a large number of children.

Do's first work, the book of portents and prodigies relating to Severus is unfortunately lost. Part of the Roman History ('P $\omega \mu \alpha i ̈ \kappa \grave{\eta}$ iotopí $\alpha$ or ' ${ }^{( } \omega \mu \alpha \ddot{\kappa} \alpha$ ) has survived. This originally consisted of eighty books, beginning with the landing in Italy of the refugee from Troy, Aeneas, and ending with 229 CE , the year of Dio's second consulship. Covering, then, nearly one thousand years of Italian history, the work was divided into three main parts. The first part concerned the republic. Documentation of the period was readily available, though Dio acknowledges that the truth about events and participants in them may be coloured by individual motivations of different writers. The second part begins with the establishment of the empire and ends with the death of M. Aurelius. This was a time when actions were kept secret and concealed. Reports made public were to be treated with suspicion and distrust because those in power let known only what they wanted. The third section, which opens with Commodus, deals with events and personalities about which he can write as an eye-witness. Dio is less than complimentary about what is to follow: $\dot{\alpha} \pi \grave{o}$ र $\chi v \sigma \bar{\eta} \varsigma ~ \tau \in \beta \alpha \sigma \lambda \lambda \epsilon i \alpha \varsigma \dot{\epsilon} \zeta \sigma \iota \delta \eta \rho \bar{\alpha} \nu$
 $\kappa \alpha \tau \alpha \pi \epsilon \sigma o v \sigma \eta \zeta \tau \bar{\eta} \varsigma$ iotopia $\varsigma$ (our history now descends from a kingdom of gold to one of iron and rust, as affairs did for the Romans of that day). ${ }^{2}$

Dio opens his history with the claim of having read almost everything on every period of Roman history written by anybody. For this declaration to bear any weight at all, he ought to have been acquainted with the Annales Maximi as well as, for example, the work of Livy. Despite the loss of a large portion of Dio's work, what remains is certainly sufficient to ascertain his worth as an historiari. He took pains to present as accurate a picture as possible, including even minutiæ on the grounds of their frequent importance. At one point, after recalling a relatively trivial incident
 $\kappa \alpha \grave{i} \tau \dot{\alpha} \tau o \iota \alpha \bar{v} \tau \alpha \sigma^{\alpha} \gamma \gamma \gamma \rho \alpha \dot{\phi} \omega$, $\nu \rho \mu \dot{i} \sigma \eta$ (let no one feel that I am sullying the dignity of history by recording such occurrences). ${ }^{3}$ Even so, as Cary ${ }^{4}$ notes in his introduction to the Loeb edition, "unfortunately the value of his history is greatly diminished for us as the result of his blind devotion to ... theories governing historical writing in his day ... [one being that] the historian was never to forget that he was at the same time a rhetorician; if the bare facts were lacking in effectiveness, they could be adorned, modified, or variously combined in the interest of a more dramatic presentation."

Even with such flaws, the history of Dio was found to be a suitable work for Zonaras to deploy when writing the portion of his Annals relating to Roman history. Joannes Zonaras was a twelfth century Byzantine historian and theologian who

[^144]undertook the writing of a history from the Creation to the death of the emperor Alexis I in 1118 CE . He frequently used the exact words of the authors whom he consulted and the first twenty books of Dio exist only in Zonaras' epitome.

## 2. Prodigial Material

## 1. C218 and C217

Text:

## ZONARAS (epitomizing CASSIUS DIO), 8.22:




1. $\dot{\varepsilon} \nu \gamma \grave{\alpha} \rho \tau \eta{ }^{`} \mathrm{P} \dot{\omega} \mu \eta \dot{\alpha} \nu \theta \rho \omega \pi i \nu \alpha \varsigma \dot{\epsilon} \lambda \dot{\alpha} \lambda \eta \sigma \epsilon \beta o u ̄ \varsigma$
 $\dot{\epsilon} \alpha v \tau o ̀ \nu \grave{\epsilon} \rho \rho \iota \psi \epsilon \kappa \alpha \grave{\iota} \dot{\epsilon} \phi \theta \dot{\alpha} \rho \eta$
2. $\kappa є \rho \alpha v \nu о i ́ \pi o \lambda \lambda o i ̀ ~ \epsilon ̇ \phi \epsilon ́ \rho о \nu \tau о$
3. $\kappa \alpha \grave{i} \alpha i \mu \alpha \dot{\epsilon} \xi \dot{\alpha} \gamma \alpha \lambda \mu \dot{\alpha} \tau \omega \nu \check{\omega} \phi \theta \eta$
4. $\tau \grave{o}$ $\delta \grave{\epsilon} \alpha i \mu \alpha \dot{\epsilon} \xi \dot{\alpha} \sigma \pi i \delta o ؟ ~ \sigma \tau \rho \alpha \tau \iota \omega ் \tau 0 v \dot{\epsilon} \rho \rho u ́ \eta$




## Translation:

In these circumstances and for these reasons, the Romans and the Carthaginians were to war for the second time, and the divine power indicated what was going to occur.

1. at Rome an ox had spoken with a human voice
2. another at the Ludi Romani hurled itself from a house into the Tiber and perished
3. many thunderbolts fell
4. in one case, blood was seen to flow from statues
5. in another, from the shield of a soldier
6. a wolf snatched the sword of another soldier from the camp itself

In the case of Hannibal, many unknown animals went in front of him, leading the way as he was crossing the Ebro and a vision appeared to him in a dream.

## Comments:

It is impossible to tell whether or not Zonaras has selected from a larger group of prodigies in Cassius Dio, whether or not he has combined separate clusters in Dio into a single set, and to what extent he may have midified and/or garbled Dio's wording.

Z/CD2 is the counterpart of Livy C218,2 with the Zonaras/Dio version adding the detail that the ox plunged to its fate during the Ludi Romani. Preceding Livy C218,2 is a prodigy involving the precocious speech of a six-month old child. It is difficult to resist suspicion that $\mathrm{Z} / \mathrm{CD} 1$ is the counterpart of Livy $\mathrm{C} 218,1$ and that, influenced by the item that follows, Zonaras or, conceivably, Dio himself was seduced into converting the talking baby into a talking ox. Z/CD6 is the counterpart of Livy
$\mathrm{C} 218,10$ with $\dot{\epsilon} \xi \alpha \dot{u} \tau o \hat{v}$ tov̀ $\sigma \tau \rho \alpha \tau \sigma \pi \epsilon \in \delta o v$ (the sword of another soldier) not precisely in correspondence with vigili... ex vagina. Possibly Zonaras has modified Dio's original words. Z/CD5 is the counterpart of Livy C217,4 with one shield instead of two. Z/CD4 will be the counterpart of Livy C217,16 if, as seems likely, Zonaras, or possibly Cassius Dio, has been influenced by the juxtaposed Z/CD5 to convert a conventional sweat into a bloody one. The remaining Z/CD3 could be the counterpart of either Livy $\mathrm{C} 218,4$ or $\mathbf{C} 217,5$, or both.

Although each Zonaras/Cassius Dio item has a Livian counterpart, $\dot{\epsilon} \nu \tau \hat{\eta} \tau \hat{\omega} \nu$ ${ }^{\prime} \mathrm{P}_{\omega \mu \alpha i \omega \nu} \pi \alpha \nu \eta \gamma v \rho \epsilon \iota$ at $\mathrm{Z} / \mathrm{CD} 2$, which cannot but be authentic, rules out Livy's having been Cassius Dio's source. My inclination is to attribute to Cassius Dio direct, independent use of the Annales Maximi in assembling his prodigial material which for the years C218 and C217 has suffered considerable pruning and garbling at the hands of Zonaras. It follows that Iivy who also made direct use of the Annales Maximi has failed to reproduce an important detail in respect of C218,2.
2. C2.15

Text:

ZONARAS (epitomizing CASSIUS DIO), 9.3:






1. ßoûऽ ... ĩтtò еัтєкє
2. $\kappa \alpha \grave{\imath} \dot{\epsilon} \nu \theta \alpha \lambda \alpha \sigma \sigma \sigma \eta \dot{\epsilon} \xi \in ́ \lambda \alpha \mu \psi \in \pi \hat{u} \rho$

## Translation:

The consuls chosen were Gracchus, previously master of the horse, and Postumius Albinus. Albinus was destroyed with his entire army by the Boii after being ambushed as he was crossing a wooded mountain. The barbarians cut off his head, cleaned out the contents, gilded it and then used it for a bowl in their sacred rites. Portents occurred at that time.

1. a cow gave birth to a horse
2. fire shone out at sea

## Comment:

Again Zonaras may have abridged Cassius Dio's list. Livy reports four prodigies for the year concerned. $\mathrm{Z} / \mathrm{CD} 1$ is the counterpart of Livy C 215.2 : $\mathrm{Z} / \mathrm{CD} 2$ that of Livy C215,1.

## 3. C206

Text:

CASSIUS DIO, 17.59-60 (P. 1 (p. 458sq.):


 $\gamma \in \nu \circ \mu \in ́ \nu \omega \nu$.

1. $\dot{\alpha} \rho \nu i \dot{o} \dot{\nu} \tau \epsilon \gamma \grave{\alpha} \rho \dot{\alpha} \rho \rho \epsilon \nu \dot{o} \theta \eta \lambda \nu \dot{\epsilon} \gamma \epsilon \nu \nu \dot{\eta} \theta \eta$
2. к $\alpha \grave{i} \sigma \mu \bar{\eta} \nu \circ \varsigma \dot{v} \ldots o \nu \ddot{\omega} \phi \theta \eta$




3. кєр $\alpha \nu \nu o i ́ ~ \tau \epsilon \dot{\epsilon} \varsigma \nu \alpha o v ̀ \varsigma ~ \pi o \lambda \lambda o i ́, ~ . . . ~$

## Translation:

Nothing worth recording was achieved by them or by any others, either then or in the following year, when Lucius Veturius and Caecilius Metellus became consuls; despite the fact that many portents of ill omen for the Romans had occurred.
I. a hermaphrodite lamb was born
2. a swarm of ... was seen
3. two snakes slid under the doors of the temple of Capitoline Jupiter
4. the doors and the altar of the temple of Neptune ran with much sweat
5. at Antium bloody ears of corn were observed by some harvesters
6. elsewhere a woman with horns appeared
7. many lightning strikes on temples

## Comment:

A small part of the 17th book of Cassius Dio's history survives on five parchment leaves used in effecting repair on an MS (Parisinus 1397A) of the geographer Strabo. The MS of Dio to which the leaves belonged was probably produced in the eleventh centruy CE. The patching of the Strabo MS took place a few centuries later. All five of the leaves are damaged and consequently the text which they preserve is punctuatei with minor and major lacunae. The text's content is part of Dio's account of events of C207-C200.

Included in the part of Dio's narrative, partly preserved in the so-called Paris fragment, is a list of prodigies processed and expiated in C206. Unfortunately there is a major break in the portion of text concerned that commences within the list's seventh item. It is consequently impossible to be sure whether further prodigia followed. In addition, there is a minor break in the text within the second item.

Dio's list of prodigies dealt with in C206 contained at least seven items. Its Livian counterpart whose text is complete contains eleven. Three of the Livina items, C206,1,2 and 11, all of which involve lightning strikes on religious sanctuaries could collectively correspond with CD7 where Dio may or may not have gone on to spell out details of location and cult affiliation CD4 corresponds precisely with Livy C206.4 and CD1 with Livy C206,6 with Dio omitting the place, Caere, in which the sexually anomalous lamb was borin.

Two further items in Dio have Livian counterparts but correspondence is not complete. At Livy C206,3 two serpents slide under the doors of the temple of Jupiter at Satricum. At CD3 serpents slide under the doors of the temple of Jupiter on the Capitoline at Rome. The explanation for the difference may be that having separated two Satricum prodigia that were juxtaposed in the Annales Maximi and taken over as such at Livy C206,2 and 3, Dio lost sight of the true location and went on to link the prodigy with the most significant of Jupiter's temples and the one with which he was most familiar.

At Livy C206,10 an altar of Neptune in the circus of Flaminius streams with copious sweat. At CD6 the doors and altar of a temple of Neptune stream with copious sweat. The temple's location is not spelled out but the natural inference is that it was at Rome. The discrepancy between Livy's and Dio's versions is disconcerting. It is unlikely that Livy's representation with its precise and non-sanctuarial location of the altar is wrong and it is consequently incumbent to account for Dio's heterodozy. Possibly Dio had no clear conception of the nature of the circus Flaminius which no longer existed in his own day. Taking it for a district associated with a structure he inferred that it contained a Neptune temple, the obvious location for an altar connected with the god. The addition of $\theta \dot{v} \rho \alpha \iota$, doors, to the altar still remains to be explained. For better or worse, Dio's creativity seems to be the only recourse.

Livy C206,5.7.8 and 9 have no apparent counterparts in what remains to Dio's list. It is possible, however, that an item or items corresponding to one, some or all of them were recorded in Dio's text after the interruption of CD7.

CD6 has no equivalent in Livy. It follows that Livy either carelessly or deliberately left out an item from the archetypal list of C206 prodigies in the Annales

Miaximi. If the omission was calculated, Livy's excision could have been inilluenced by the apparition's perceived subjectivity and triviality. The prodigy lacked not only credibility but also dignitas.

CD2 raises a plethora of problems. As the defective text stands, a swarm of something likely to have begun with the letter hypsilon was observed somewhere. $\sigma \mu \bar{\eta} \nu 0 \varsigma$ is a rather exclusive word which connotes either a beehive or a swarm of bees ( $\mu \dot{\epsilon} \lambda \iota \sigma \sigma \alpha \iota / \mu \hat{\epsilon} \lambda \iota \tau \tau \alpha \iota$ ), wasps ( $\sigma \dot{\phi} \hat{\kappa} \in \varsigma$ ) or hornets ( $\dot{\alpha} \nu \theta \rho \dot{\eta} \nu \alpha \iota$ ). None of these commences with hypsilon. Given the difficulty it becomes tempting to consider the possibility that $\sigma \mu \hat{\eta} v o \varsigma$ is corrupt. If so, it becomes conceivable that CD 2 corresponds with one of the Livian C206 items without an apparent CD correlate. If, on the other hand, $\sigma \mu \tilde{\eta} \nu O \varsigma$ is correct, then Livy left out at least two C206 prodigies from the original list in the Annales Maximi. In the absence of clear indication as to the phenomenon involved, speculation on the motivation of Livy's omission is precluded.

## F. The bearing of non-Livian prodigial material on the completeness of the prodigy lists in Livy

It was suggested earlier that the almost reverential seriousness with which Livy took prodigies that struck him as genuine indicators of a breach in the pax deorum should have motivated him to record all but the most palpably banal, implausible and non-authentic items from the ultimate annual prodigial lists recorded in the Annales Maximi. The fact that on occasion (C218 and C217 are two cases in point), Livy includes prodigies which he personally regarded as trivial or reflective of credulity tends to lend support to diagnosis of predisposition to something at least approximate to completeness.

If extensive lists of prodigies for several years in sources other than Livy were available, a near conclusive abjective assessment of Livian comprehensiveness or the lack thereof would become possible. The fewer the prodigies in other sources without Livian counterparts, the more certain Livian non-exclusivity would become. Unfortunately, the non-Livian prodigial material at our disposal is somewhat jejune. Despite the dearth it is very probably not without significance that there is only a single conclusive example (CD C206,6) of Livy's having omitted from one of his prodigy lists an item that featured in the master record of the pontifical chronicles. The item concerned is quite likely one that Livy would have regarded as absurd and incompatible with objective status.

In the eighth book of his Punica, the first century CE poet, Silius Italicus, begins to set the stage for his account of the battle of Cannae. Rome's catastrophic defeat is foreshadowed by a long list of sensational prodigies (20 in all) that occupies lines 622-645. Suffice it to say that there is no reason whatsoever to believe that Silius draws upon authentic prodigial material ultimately derived from the Annales Maximi and ignored by Livy. Like a similarly lurid catalogue of portents, associated with Julius Caesar's invasion of Italy in 49 BCE, at Lucan, Pharsalia 1.525-582, Silius' collection of phenomena is simply a dramatic device and transparently fictive. Included, for example, is an eruption of Vesuvius which, prior to the paroxysm of 79 CE , had been dormant for many centuries.

Data Assemblages

## A. Preface

The data banks that follow are intended to facilitate exploitation for scientific and other purposes of the prodigial records, assembled in Part 3 of the main body of the thesis, for the consular years C218-C167 inclusive.

The first item (B) consists of a gazetteer accompanied by a map, indicating the general whereabouts of regions of ancient Roman Italy and the precise latitudinal and longitudinal co-ordinates of all discrete population centres, large and small, in the peninsula from which accepted and processed prodigies were reported.

The second item (C) shows the correlation of places which reported prodigies accepted and processed with frequency of reportage. It emerges that some locales, such as Lanuvium, were, so to speak, habitual furnishers of prodigial reports while others, even if no less populous and significant, were by and large silent.

The third item (D) comprises a cluster of concordances that display correlation of varieties of phenomena, astronomical, geophysical and so forth, with consular years and places of purported occurrence.

The fourth item (E) reveals the number of prodigies processed within each consular year and contributes towards correlation of these consular annual frequencies with the years of office of successive pontifices maximi and with attested changes of personnel in the pontifical college as a whole, in the college of the augurs, and in the decemvirate sacris faciundis.

## B. Gazetteer

Aefula (Monte Sant'Angelo)
Alba (Castel Gandolfo)
Alban Mount (Monte Cavo)
Amiternum
Anagnia
Antium (Anzio)
Ardea
Aricia (Ariccia)
Ariminum (Rimini)
Arpi
Arpinum (Arpino)
Arretium (Arezzo)
Atella
Auximum (Osimo)
Caere (Cerveteri)
Caieta
Calatia
Cales
Capena
Capua
Casinum (Cassino)
Compsa
Crustumerium
Cumae
Eretum
Falerii (Civita Castellana)
Formiae (Formia)
Fregellae (Ceprano)
Fregenae
Frusino (Frosinone)
Gabii (Osteria dell Osa)
Graviscae
Hadria (Atri)
Lanuvium (Lanuvio)
Mantua
Minervium (Squillace)
Minturnae (Minturno)
Nursia (Norcia)
Ostia
Praeneste (Palestrina)
Privernum
Puteoli (Pozzuoli)
$41^{\circ} 56^{\prime} \mathrm{N} 12^{\circ} 49^{\prime} \mathrm{E}$
$41^{\circ} 45^{\prime} \mathrm{N} 12^{\circ} 38^{\prime} \mathrm{E}$
$41^{\circ} 45^{\prime} \mathrm{N} 12^{\circ} 43^{\prime} \mathrm{E}$
$42^{\circ} 20^{\prime}$ N $13^{\circ} 24^{\circ} \mathrm{E}$
$41^{\circ} 44^{\prime} \mathrm{N} 13^{\circ} 10^{\circ} \mathrm{E}$
$41^{\circ} 27^{\prime} \mathrm{N} 12^{\circ} 38^{\prime} \mathrm{E}$
$41^{\circ} 36^{\prime} \mathrm{N} 12^{\circ} 33^{\prime} \mathrm{E}$
$41^{\circ} 43^{\prime} \mathrm{N} 12^{\circ} 41^{\prime} \mathrm{E}$
$44^{\circ} 03^{\prime} \mathrm{N} 12^{\circ} 34^{\prime} \mathrm{E}$
$41^{\circ} 34^{\prime} \mathrm{N} 15^{\circ} 32^{\prime} \mathrm{E}$
$41^{\circ} 38^{\prime} \mathrm{N} 13^{\circ} 37^{\prime} \mathrm{E}$
$43^{\circ} 28^{\prime}$ N $11^{\circ} 53^{\prime} \mathrm{E}$
$40^{\circ} 56^{\prime}$ N $14^{\circ} 13^{\prime} \mathrm{E}$
$43^{\circ} 28^{\prime} \mathrm{N} 13^{\circ} 29^{\prime} \mathrm{E}$
$41^{\circ} 59^{\prime} \mathrm{N} 12^{\circ} 06^{\prime} \mathrm{E}$
$41^{\circ} 16^{\prime} \mathrm{N} 13^{\circ} 32^{\prime} \mathrm{E}$
$41^{\circ} 03^{\prime} \mathrm{N} 14^{\circ} 22^{\prime} \mathrm{E}$
$41^{\circ} 12^{\prime} \mathrm{N} 14^{\circ} 08^{\prime} \mathrm{E}$
$42^{\circ} 19^{\prime} \mathrm{N} 12^{\circ} 24^{\prime} \mathrm{E}$
$41^{\circ} 06^{\prime} \mathrm{N} 14^{\circ} 13^{\prime} \mathrm{E}$
$41^{\circ} 29^{\prime} \mathrm{N} 13^{\circ} 50^{\prime} \mathrm{E}$
$40^{\circ} 49^{\prime} \mathrm{N} 15^{\circ} 44^{\prime} \mathrm{E}$
$42^{\circ} 00^{\prime} \mathrm{N} 12^{\circ} 31^{\prime} \mathrm{E}$
$40^{\circ} 47^{\prime} \mathrm{N} 14^{\circ} 05^{\prime} \mathrm{E}$
$42^{\circ} 08^{\prime} \mathrm{N} 12^{\circ} 37^{\prime} \mathrm{E}$
$42^{\circ} 17^{\prime} \mathrm{N} 12^{\circ} 25^{\prime} \mathrm{E}$
$41^{\circ} 16^{\prime} \mathrm{N} 13^{\circ} 37^{\prime} \mathrm{E}$
$41^{\circ} 33^{\prime} \mathrm{N} 13^{\circ} 32^{\prime} \mathrm{E}$
$41^{\circ} 52^{\prime} \mathrm{N} 12^{\circ} 12^{\prime} \mathrm{E}$
$41^{\circ} 38^{\prime} \mathrm{N} 13^{\circ} 22^{\prime} \mathrm{E}$
$41^{\circ} 52^{\prime} \mathrm{N} 12^{\circ} 45^{\prime} \mathrm{E}$
$42^{\circ} 13^{\prime} \mathrm{N} 11^{\circ} 42^{\prime} \mathrm{E}$
$42^{\circ} 35^{\prime} \mathrm{N}^{\prime} 13^{\circ} 59^{\prime} \mathrm{E}$
$41^{\circ} 40^{\prime} \mathrm{N} 12^{\circ} 42^{\prime} \mathrm{E}$
$45^{\circ} 10^{\prime} \mathrm{N} 10^{\circ} 47^{\prime} \mathrm{E}$
$38^{\circ} 46^{\prime} \mathrm{N} 16^{\circ} 31^{\prime} \mathrm{E}$
$41^{\circ} 16^{\prime} \mathrm{N} 13^{\circ} 45^{\prime} \mathrm{E}$
$42^{\circ} 47^{\prime} \mathrm{N} 13^{\circ} 05^{\prime} \mathrm{E}$
$41^{\circ} 46^{\prime} \mathrm{N} 12^{\circ} 18^{\prime} \mathrm{E}$
$41^{\circ} 50^{\prime} \mathrm{N} 12^{\circ} 54^{\prime} \mathrm{E}$
$41^{\circ} 29^{\prime} \mathrm{N} 13^{\circ} 12^{\prime} \mathrm{E}$
$40^{\circ} 49^{\prime} \mathrm{N} 14^{\circ} 07^{\prime} \mathrm{E}$

Reate (Rieti)
Remens
Rome
Satricum (Conca)
Saturnia
Setia (Sezze)
Sinuessa
Spoletum (Spoleto)
Suessa Aurunca
Suessula (Cancello)
Syracuse
Tarquinii (Tarquinia)
Tarracina (Terracina)
Tusculum (Frascati)
Veii (Veio)
Velitrae (Velletri)
Volsinii (Bolsena)
Volturnum
$42^{\circ} 24^{\prime} \mathrm{N}^{12} 2^{\circ} 51^{\prime} \mathrm{E}$
Exact location unknown but near Veii
$41^{\circ} 53^{\prime} \mathrm{N} 12^{\circ} 30^{\prime} \mathrm{E}$
$41^{\circ} 28^{\prime} \mathrm{N} 12^{\circ} 45^{\prime} \mathrm{E}$
$42^{\circ} 37^{\prime} \mathrm{N} 11^{\circ} 32^{\prime} \mathrm{E}$
$41^{\circ} 29^{\prime}$ N $13^{\circ} 04^{\prime}$ E
$41^{\circ} 07^{\prime}$ N $13^{\circ} 53^{\prime} \mathrm{E}$
$42^{\circ} 44^{\prime}$ N $12^{\circ} 44^{\prime}$ E
$41^{\circ} 14^{\prime}$ N $13^{\circ} 56^{\prime} \mathrm{E}$
$41^{\circ} 00^{\prime} \mathrm{N} 14^{\circ} 26^{\prime} \mathrm{E}$
$37^{\circ} 04^{\prime}$ N $15^{\circ} 18^{\prime} \mathrm{E}$
$42^{\circ} 23^{\prime} \mathrm{N} 11^{\circ} 45^{\prime} \mathrm{E}$
$41^{\circ} 17^{\prime}$ N $13^{\circ} 15^{\prime} \mathrm{E}$
$41^{\circ} 48^{\prime} \mathrm{N} 12^{\circ} 41^{\prime} \mathrm{E}$
$42^{\circ} 02^{\prime}$ N $12^{\circ} 24^{\prime} \mathrm{E}$
$41^{\circ} 41^{\prime} \mathrm{N} 12^{\circ} 47^{\prime} \mathrm{E}$
$42^{\circ} 38^{\prime}$ N $11^{\circ} 59^{\prime} \mathrm{E}$
$41^{\circ} 02^{\prime}$ N $13^{\circ} 57^{\prime}$ E


## C. Prodigy Place and Number

| Location | Number of Prodigies |
| :---: | :---: |
| Aefula | 1 |
| ager Pomptinus | 1 |
| ager Romanus | 3 |
| Alba | 2 |
| Álban mount | 3 |
| Amiternum | 4 |
| Anagnia | 8 |
| Antium | 4 |
| Apulia | 1 |
| Ardea | 1 |
| Aricia | 5 |
| Ariminum | 1 |
| Arpi | 2 |
| Arpinum | 1 |
| Arretium | 2 |
| Atella | 1 |
| Auximum | 2 |
| Bruitii | 2 |
| Caere | 8 |
| Caieta | 2 |
| Calatia | 3 |
| Cales | 1 |
| Campania | 2 |
| Capena | 5 |
| Capua | 10 |
| Casinum | 1 |
| Compsa | 1 |
| Crustumerium | 2 |
| Cumae | 5 |
| Eretum | 1 |
| Falerii | 2 |
| Formiae | 3 |
| Fregellae | 3 |
| Fregenae | 1 |
| Frusino | 5 |
| Gabii | 2 |
| Gaul | 2 |
| Graviscae | 1 |
| Hadria | 2 |
| Lanuvium | 14 |


| Lucania | 2 |
| :---: | :---: |
| Macedonia | 1 |
| Mantua | 1 |
| Maricia | 1 |
| Marrucini | 1 |
| Minervium | 1 |
| Minturnae | 5 |
| Nar | 1 |
| Nursia | 2 |
| Ostia | 3 |
| Picenum | 4 |
| Praeneste | 2 |
| Privernum | 4 |
| Puteoli | 3 |
| Reate | 7 |
| Remens | 1 |
| Rome | 56 |
| Sabini | 4 |
| Sardinia | 5 |
| Satricum | 2 |
| Saturnia | 1 |
| Setia | 1 |
| Sicily | 3 |
| Sinuessa | 8 |
| Spoletum | 1 |
| Subertanus | 1 |
| Suessa | 1 |
| Suessa Aurunca | 1 |
| Suessula | 1 |
| Syracuse | 1 |
| Tarquinii | 1 |
| Tarracina | 6 |
| Tusculum | 3 |
| Umbria | 1 |
| Veii | 4 |
| Veliternum | 2 |
| Velitrae | 2 |
| Volsinii | 1 |
| Volturnum | 1 |
|   <br> Unspecified Location 15 <br> Widespread 2 |  |
|  |  |
|  |  |

## D. Phenomena, Consular Years and Places

## ARTEFACTS

| Category | Year/Prodigy No. | Location |
| :--- | :--- | :--- |
| altars | C206,10 | Rome |
| edifaces | C199,5 | Velitrae |
|  | C193,3 | Rome |
| fire of Vesta | C206,12 | Rome |
|  | C178,1 | Rome |
| lots | C218,9 | Caere |
|  | C217,15 | Falerii |
| shields | C217,4 | Sardinia |
| spears | C218,5 | Lanuvium |
|  | C217,1 | Sicily |
|  | C217,2 | Sardinia |
|  | C214,11 | Praeneste |
|  | C196,3 | Capena |
|  | C181,2 | Rome |
|  | C169,10 | Fregellae) |
| statues | C217,16 | Rome |
|  | C216,3 | Sabini |
|  | C215,3 | Lanuvium |
|  | C211,1 | Rome |
|  | C?10,7 | Capena |
|  | C209,6 | Rome |
|  | C194,3 | Rome |
|  | C181,3 | Lanuvium |
|  | C179,8 | C169,5 |

## BIOSPHERE

| Category | Year/Prodigy No. | Location |
| :---: | :---: | :---: |
| Apparitions: |  |  |
| aural | C213.4 | Compsa |
|  | C204,6 | Lanuvium |
|  | C200, 3 | Lanuvium |
| visual | C218,7 | Amiternum |
|  | C214,17 | Rome |
|  | C213,3 | Tarracina |
| birds | C218,6 | Lanuvium |
|  | C2.14,1 | Lanuvium |
|  | C210,4 | Anagnia |
|  | C209,8 | Privernum |
|  | C208,5 | Caere |
|  | C203,1 | Rome |
|  | C177,7 | Crustumerium |
| domestic animals: |  |  |
| cattle | C218,2 | Rome |
|  | C215,2 | Sinuessa |
|  | C177,9 | Syracuse |
| talking cattle | C214,12 | Sicily |
|  | C209,7 | Privernum |
|  | C206,9 | ager Romanus |
|  | C192,5 |  |
|  | C177,8 | Campania |
|  | C174,9 | Campania |
|  | C169,2 | Anagnia |
| donkeys | C172,3 | Calatia |
| fowl | C217,20 | UL |
|  | C199,7 | Bruttii |
| goats | C217,19 | UL |
|  | C192, 1 | Picenum |
| horses | C203,4 | Reate |
|  | C200,8 | Lucania |
|  | C199,6 | Bruttii |
| lambs | C210,1 | Tusculum |
|  | C206,6 | Caere |
|  | C200,6 | Frusino |
|  | C198,7 | Suessa Aurunca |
|  | C197,4 | Aefula |
| mules | C211,6 | Reate |
|  | C190,5 | Reate |


|  | $\begin{aligned} & \mathrm{C} 182,2 \\ & \mathrm{C} 179,4 \end{aligned}$ | Reate Reate |
| :---: | :---: | :---: |
| pigs | C210,6 | Tarquinii |
|  | C206,5 | Caere |
|  | C200,7 | Sinuessa |
|  | C198,8 | Sinuessa |
| fish | C173,5 | Gaul |
| humans: |  |  |
| deaths | C180, 1 | UL |
| deformities | C209,11 | Sinuessa |
|  | C194,5 | Ariminum |
|  | C194,6 | Picenum |
|  | C192,2 | Arretium |
|  | C177,2 | ager Romanus |
|  | C174,2 | Veii |
|  | C174,3 | Sinuessa |
|  | C174,4 | Auximum |
| hermaphrodites | C214,14 | Spoletum |
|  | C209,9 | Sinuessa |
|  | C207,8 | Frusino |
|  | C200,4 | Sabini |
|  | C200, 5 | Sabini |
|  | C186,4 | Umbria |
| infans | $\begin{aligned} & \mathrm{C} 218,1 \\ & \mathrm{C} 214,13 \end{aligned}$ | Rome Marrucini |
| insects: |  |  |
| bees | C214, 16 | Rome |
|  | C208,3 | Casinum |
| locusts | C203,3 | Capua |
|  | C173,4 | ager Pomptinus |
| wasps | C193,6 | Capua |
| pestilence | C181,4 | widespread |
|  | C174,1 | widespread |
| plants: |  |  |
| cultivated | C217,13 | Antium |
|  | C206,4 | Antium |
| wild | C214,2 | Apulia |
|  | C199,8 | Macedonia |
|  | C169,7 | Rome |
|  | C169,9 | Rome |
| reptiles | C210,5 | Tarracina |
|  | C206,3 | Satricum |
|  | C177,3 | ager Romanus |
|  | C174,7 | Lanuvium |
|  | C174,8 | Caere |
|  | C169,6 | Rome |
| sacrifices | C203,8 | Rome |


|  | C176,1 | Rome |
| :---: | :---: | :---: |
| Vestals | C216,6 | Rome |
|  |  |  |
|  |  |  |
|  | C203,2 | Antium |
|  | C179,7 | UL |
| wolves | C218,10 | Gaul |
|  | C207,6 | Capua |
|  | C197,5 | Formiae |
|  | C197,6 | Rome |
|  | C196,4 | Rome |
|  | C177,6 | Rome |
| wool | C217,18 | Capua |
|  | C173,2 | Privernum |

## PHENOMENA OF THE EARTH

| Category | Year/Prodigy No. | Location |
| :---: | :---: | :---: |
| earthquakes | C212,5 | Reate |
|  | C193,1 | UL |
|  | C179,5 | UL |
| fire | C217,3 | Sardinia |
|  | C215,1 |  |
|  | C210,3 | Anagnia |
| islands | C183,3 | Sicily |
| subsidence | C203,7 | Arpinum |
|  | C202,3 | Velitrae |
|  | C198,6 | Velitrae |
| water: |  |  |
| blood | C217,11 | Caere |
|  | G217,12 | Caere |
|  | C216,4 | Caere |
|  | C214,3 | Mantua |
|  | C213,5 | Amiternum |
|  | C211,4 | Subertanus |
|  | C209,5 | Alba |
|  | C208,6 | Volsinii |
|  | C207,5 | Minturnae |
|  | C167,5 | Calatia |
| flood | C214,6 | Rome |
| milk | C194,4 | Nar |

## PHENOMENA OF THE SKY

| Category | Year/Prodigy No. | Location |
| :---: | :---: | :---: |
| aerial phenomena | $\begin{aligned} & \hline \text { C214,15 } \\ & \text { C173,1 } \end{aligned}$ | Hadria Lanuvium |
| eclipses | $\begin{aligned} & \mathrm{C} 217,6 \\ & \mathrm{C} 217, \\ & \mathrm{C} 202,1 \\ & \mathrm{C} 188,1 \end{aligned}$ | Sardinia Arpi Cumae UL |
| lightning: |  |  |
| temple complexes | C218,4 | Rome (Hope) |
|  | C214,8 | Rome (Vulcan) |
|  | C213,2 | Aricia (Jupiter) |
|  | C212,2 | Rome (not specified) |
|  | C211,1 | Rome (Concord) |
|  | C210,2 | Rome (Jupiter) |
|  | C209, 1 | Alban Mount (Jupiter) |
|  | C209,3 | Capua (Fortune) |
|  | C208, 1 | Capua (Fortune, Mars) |
|  | C207,2 | Minturnae (Jupiter) |
|  | C207,9 | Rome (Juno) |
|  | C206,1 | Tarracina (Jupiter) |
|  | C206,2 | Satricum (Mater Matuta) |
|  | C206,11 | Rome (Ceres, Salus, Quirinus) |
|  | C199,2 | Formiae (Jupiter) |
|  | C199,3 | Ostia (Jupiter) |
|  | C199,4 | Velitrae (Apollo, Sangus) |
|  | C198,2 | Lanuvium (Jupiter) |
|  | C198,3 | Ardea (Hercules) |
|  | C198,4 | Capua ("White") |
|  | C197, 1 | Rome (Vulcan, Summanus) |
|  | C196,2 | Capena (Feronia) |
|  | C191,3 | Minturnae (Juno) |
|  | C190,1 | Rome (Jupiter) |
|  | C186,3 | Rome (Ops) |
|  | C182,3 | Caieta (Apollo) |
|  | C179,2 | Tarracina (Jupiter) |
|  | C179,3 | Capua ("White") |
|  | C176,2 | Gabii (Apollo) |
|  | C167, 1 | Rome (Penates) |


| walls and gates | C214,10 C213,1 C212, C212,4 C211,2 C211,3 C209,3 C209,4 C208,4 C207,4 C204,4 C204,5 C202,5 C199,1 C198,4 C197,2 C193,2 C192,4 C190,2 C179,3 C176,3 C167,2 | Gabii <br> Caieta <br> Suessula <br> Cumae <br> Anagnia <br> Fregellae <br> Capua <br> Sinuessa <br> Ostia <br> Atella <br> Tarracina <br> Anagnia <br> Frusino <br> Suessa <br> Capua <br> Fregenae <br> Rome <br> Formiae <br> Puteoli <br> Capua <br> Graviscae <br> Minervium |
| :---: | :---: | :---: |
| individuals | C217,5 C216,5 C212,3 C196,1 C190,3 C190,2 | Sardinia Rome Suessula Sabini Nursia Puteoli |
| other | $\begin{aligned} & \mathrm{C} 214,7 \\ & \mathrm{C} 214,9 \\ & \mathrm{C} 209,2 \\ & \mathrm{C} 207,3 \\ & \mathrm{C} 22,4 \\ & \mathrm{C} 98,4 \\ & \mathrm{C} 198,2 \\ & \mathrm{C} 191,3 \\ & \mathrm{C} 111,4 \\ & \mathrm{C} 177,4 \\ & \mathrm{C} 177,5 \\ & \mathrm{C} 176,2 \\ & \mathrm{C} 172,1 \\ & \mathrm{C} 172,4 \\ & \hline \end{aligned}$ | Rome <br> Sabini <br> Ostia <br> Maricia <br> Aricia <br> Veii <br> Lanuvium <br> Minturnae <br> Volturnum <br> Capua <br> Puteoli <br> Gabii <br> Rome <br> Calatia |
| luminescence: | $\begin{aligned} & \mathrm{C} 217,14 \\ & \mathrm{C} 217,17 \\ & \mathrm{C} 206,8 \\ & \mathrm{C} 204,2 \\ & \mathrm{C} 197,3 \end{aligned}$ | Falerii <br> Capua <br> Fregellae <br> UL <br> Frusino |


| diurnal | C174,5 | Rome |
| :---: | :---: | :---: |
| unknown | C218,3 | Rome |
|  | C200,1 | Lucania |
|  | C198,5 | Arretium |
|  | C169,3 | Minturnae |
| meteors/meteorites | C217,7 | Praeneste |
|  | C217,8 | Arpi |
|  | C204,3 | Setia |
|  | C203,5 | Anagnia |
|  | C176,1 | Tusculum |
|  | C174,6 |  |
|  | C169,1 | Anagnia |
|  | C167,4 | Lanuvium |
| moon | C:217,10 | Capena |
| strange precipitations: |  |  |
| blood | C214,5 | Rome |
|  | C194,1 | Rome (guttae) |
|  | C183,1 | Rome |
|  | C183,2 | Rome |
|  | C181,1 | Rome |
|  | C172,2 | Saturnia |
|  | C169,8 | Rome |
| chalk | C214,4 | Cales |
| earth | C194,2 | Rome |
|  | C192,3 | Amiterrium |
|  | C190,4 | Tusculum |
|  | C172,5 | Auximum |
|  | C167,3 | Anagnia |
| milk | C209,10 | Sinuessa |
| stones | C218,8 | Picenum |
|  | C216,1 | Rome |
|  | C216,2 | Aricia |
|  | C215,4 | Lanuvium |
|  | C212,1 | Alban mount |
|  | C211,5 | Eretum |
|  | C207,1 | Veii |
|  | C207,7 | Rome |
|  | C205,1 | UL |
|  | C204,7 | UL |
|  | C202,2 | Cumae |
|  | C202,6 | Rome |
|  | C194,7 | Hadria |
|  | C193,3 | Aricia |
|  | C193,4 | Lanuvium |
|  | C193,5 | Rome |
|  | C191,1 | Tarracina |
|  | C191,2 | Amiternum |


|  | $\begin{aligned} & C 188,2 \\ & C 186,1 \\ & C 177,1 \\ & C 173,3 \\ & C 169,4 \\ & C 169,11 \\ & C 169,12 \end{aligned}$ | Rome <br> Picenum <br> Crustumeriurn <br> Remens <br> Reate <br> Rome <br> Veii |
| :---: | :---: | :---: |
| storms | $\begin{array}{\|l\|} \hline \text { C182,1 } \\ \text { C179,1 } \end{array}$ | Rome Alban Mount |
| sun | $\begin{aligned} & \mathrm{C} 212,6 \\ & \mathrm{C} 206,7 \\ & \mathrm{C} 204,1 \\ & \mathrm{C} 203,6 \\ & \mathrm{C} 200,2 \\ & \mathrm{C} 174,5 \end{aligned}$ | UL <br> Alba <br> UL <br> Frusino Privernum Rome |
| inexplicable phenomena | C190,3 | Nursia |

## E. Prodigy Numbers, Consular Years and Religious Authorities from 218-167 BCE

$\dagger$ indicates either death of office holder or re-i'ssignment or retirement of office holder.
Superscript numbers refer to the entries found in RE.

| $\begin{gathered} C . \\ \text { Years } \end{gathered}$ | Consuls | No. of Prodigies | Pontifex Maximus | Priests | Augurs | Xviri Sacris Faciundis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Priests whose year of incumbency is prior to 218, or unknown or uncertain but presumably or possibly prior to 218. |  |  | L. Cornelius Lentulus ${ }^{211}$ | Q. Aelius Paetus ${ }^{103} \mathrm{P}$. Scantinius <br> L. Aemilius Paullus ${ }^{118}$ L. Cantilius <br> T. Manlius Torquatus ${ }^{82}$ <br> P. Licinius Crassus Dives ${ }^{69}$ <br> M. Aemilius Papus M. Aemilius Regillus <br> M. Marcius C. Claudius <br> C. Sempronius Tuditanus <br> C. Papirius Maso ${ }^{57}$ T. Otacilius Crassus <br> M. Pomponius Matho ${ }^{10}$ | M. Claudius Marcellus ${ }^{220}$ Sp. Postumius Albinus ${ }^{25}$ <br> C. Atilius Serranus ${ }^{62}$ <br> P. Furius Philus ${ }^{80}$ <br> M. Pomponius Matho ${ }^{6}$ <br> Cn. Cornelius Lentulus ${ }^{176}$ <br> Q. Fabius Maximus ${ }^{116}$ <br> M. Aemilius Lepidus ${ }^{66}$ <br> Sp. Carvilius Maximus <br> T. Otacilius Crassus | ${ }^{\prime}$ '. Aemilius ${ }^{\text {Numida }}{ }^{10}$ C. Servilius Geminus ${ }^{60}$ <br> C. Papirius Maso ${ }^{58}$ <br> M. Livius Salinator ${ }^{32}$ <br> Ti. Sempronius Longus ${ }^{66}$ <br> Q. Mucius Scaevola ${ }^{19}$ |
| 218 | P. Cornelius Scipio ${ }^{330}$ Ti. Sempronius Longus ${ }^{66}$ | 10 | L. Cornelius Lentulus ${ }^{211}$ |  |  |  |
| 217 | Cn. Servius Geminus C. Flaminius | 20 |  |  |  |  |


| $\bar{c}$ <br> Years | Consuls | No. of Prodigies | Pontifex Maximus | Priests | Augurs | Xviri Sacris Faciundis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 216 | L. Aemilius Paullus ${ }^{18}$ C. Terentius Varro ${ }^{83}$ | 6 |  | ```P. Scantinius \(\dagger\) L. Aemillius Paullus \({ }^{\text {18 }} \dagger\) Q. Aelius Paetus \({ }^{103} \dagger\) Q. Caecilius Metellus \({ }^{81}\) Q. Fabius Maximus \({ }^{16}\) Q. Fulvius Flaccus \({ }^{59}\) [Livy 23.21.7] L. Cantilius' \({ }^{1}\) (Livy 22.57.3]``` | $\begin{aligned} & \text { M. Aemilius Lepidus }{ }^{\text {b6 }} \dagger \\ & \text { [Livy 23.30.15] } \end{aligned}$ |  |
| 215 | Ti. Sempronius Gracchus ${ }^{51}$ <br> Q. Fabius Maximus ${ }^{16}$ | 4 |  |  |  |  |
| 214 | Q. Fabius Maximus ${ }^{11}$ M. Claudius Marcellus ${ }^{220}$ | 17 |  |  |  |  |
| 213 | Q. Fabius Maximus ${ }^{\text {VS }}$ <br> Ti. Sempronius Gracchus ${ }^{51}$ | 5 | L. Cornelius Lentulus ${ }^{211} \dagger$ | C. Papirius Maso ${ }^{57} \dagger$ M. Cornelius Cethegus ${ }^{92}$ Cn. Servilius Caepio ${ }^{44}$ [Livy 25.2.2] | P. Furius Philus $\dagger$ L. Quinctius Flamininus ${ }^{4}$ [Livy 25.2.2] | C. Papirius Maso ${ }^{58} \dagger$ <br> L. Cornelius Lentulus <br> [Livy 25.2.2] |
| 212 | Ap. Claudius Pulcher Q. Fulvius Flaccus ${ }^{59}$ | 6 | P. Licinus Crassus Dives ${ }^{69}$ [Livy 25.5.2-4] |  |  |  |
| 211 | P. Sulpicius Galba Cn . Fulvius Centumalus | 6 |  | M. Pomponius Matho ${ }^{10} \dagger$ <br> C. Claudius $\dagger$ <br> T. Otacilius Crassus ${ }^{12} \dagger$ <br> C. Livius Salinator ${ }^{29}$ <br> [Livy 26.23.7-8] | Sp. Carvilius 1 aximus $\dagger$ <br> T. Otacilius Crassus ${ }^{12} \dagger$ <br> M. Servilius Pulex <br> Geminus ${ }^{78}$ <br> [Livy 26.23.7-8] | M'. Aemilius Numida $\dagger$ M. Aemilius Lepidus [Livy 26.23.7] |
| 210 | M. Valerius Laevinus M. Claudius Marcellus | 7 |  | M. Marcius $\dagger$ C. Servilius Geminus ${ }^{60}$ [Livy 27.6.15] | Ti. Sempronius Longus ${ }^{\text {br }}$ [Livy 27.6.15] | Ti. Sempronius Longus ${ }^{66} \dagger$ <br> Ti. Sempronius Longus [Livy 27.6.15] |
| 209 | Q. Fabius Maximus ${ }_{59}^{T 16}$ Q. Fulvius Flaccus ${ }^{59}$ | 11 |  | M. Aemilius Papus $\dagger$ <br> C. Mamilius Atellus <br> [Livy 27.8.1-3] <br> C. Valerius Flaccus [Livy 27.8.4-10] |  | Q. Mucius Scaevola ${ }^{15} \dagger$ <br> C. Laetorius <br> [Livy 27.8.4] |


| C. <br> Years | Consuls | No. of Prodigies | Pontifex Maximus | Priests | Augurs | Xviri Sacris Faciundis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 208 | $\bar{M}$. Claudius Marcellus ${ }^{220}$ <br> T. Quinctius Crispinus | , |  | Cn. Cornelius Dolabella ${ }^{\text {³ }}$ [Livy 27.36.5] | M. Claudius Marcellus ${ }^{220} \dagger$ P. Aelius Paetus ${ }^{101}$ [Livy 27.36.5] |  |
| 207 | C. Claudius Nero M. Livius Salinator | 9 |  |  |  |  |
| 206 | Q. Caecilius Metellus ${ }^{\text {bT }}$ <br> L. Veturius Philo | 11 |  |  |  |  |
| 205 | P. Cornelius Scipio ${ }^{\text {³6 }}$ <br> P. Licinius Crassus Dives ${ }^{69}$ | 1 |  | M. Aemilius Regill'ss $\dagger$ [Livy 29.38.6] |  |  |
| 204 | M. Cornelius Cethegus ${ }^{92}$ <br> P. Sempronius Tuctitanus | 7 |  | Ti. Veturius Philo [Livy 29.38.6] | M. Pomponius Matho $\dagger$ Ti. Sempronius Gracchus ${ }^{52}$ [Livy 29.38.7] | M. Pomponius Matho ${ }^{\circ} \dagger$ M. Aurelius Cotta [Livy 29.38.7] |
| 203 | Cn. Servilius Caepio C. Servilius Geminus | 8 |  | Q. Fabius Maximus Ser. Sulpicius Galba ${ }^{116}$ <br> [Livy 30.26.10] | $\begin{aligned} & \text { Q. Fabius Maximus } \\ & \text { Q. Fabius Maximus } \\ & \text { [Livy }{ }^{104} \dagger \\ & \hline \text { 30.26.7-10] } \end{aligned}$ |  |
| 202 | Ti. Claudius Nero M. Servilius Pulex Geminus ${ }^{78}$ | 6 |  | T. Manlius Torquatus ${ }^{32} \dagger$ C. Sulpicius Galba ${ }^{4}$ [Livy 30.39.6] |  |  |
| 201 | Cn . Cornelius Lentulus P. Aelius Paetus | 0 |  |  |  |  |
| 200 | P. Sulpicius Galba <br> C. Aurelius Cotta | 8 |  |  |  | M. Aurelius Cotta $\dagger$ M'. Acilius Glabrio ${ }^{35}$ [Livy 31.50.5] |
| 199 | L. Cornelius Lentulus P. Villius Tappulus | 8 |  | C. Sulpicius Galba $\dagger$ Ser. Suipicius Galba ${ }^{56} \dagger$ M. Aemilius Lepidus ${ }^{68}$ [Livy 32.7.15] |  |  |
| 198 | T. Quinctius Flamininus Sex. Aelius Paetus | 8 |  | Cn . Cornelius Scipio Hispallus ${ }^{336}$ [Livy 32.7.15] |  |  |


| $\begin{gathered} c . \\ \text { Years } \end{gathered}$ | Consuls | No. of Prodigies | Pontifex Maximus | Priests | Augurs | Xviri Sacris Faciundis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 197 | C. Cornelius Cethegus Q. Minucius Rufus | 6 |  |  |  |  |
| 196 | L. Furius Purpureo M. Claudius Marcellus ${ }^{222}$ | 4 |  | C. Sempronius Tuditanus $\dagger$ <br> M. Cornelius Cethegus ${ }^{92} \dagger$ <br> M. Claudius Marcellus ${ }^{222}$ <br> L. Valerius Flaccus ${ }^{35}$ <br> [Livy 33.42.5] | $\begin{aligned} & \text { Q. Fabius Maximus }{ }^{104} \dagger \\ & {[\text { Livy } 33.42 .6]} \end{aligned}$ |  |
| 195 | M. Porcius Cato L. Valerius Flaccus ${ }^{35}$ | 0 |  |  | C. Claudius Pulcher ${ }^{300}$ [Livy 33.44.3] |  |
| 194 | P. Cornelius Scipio ${ }^{336}$ <br> Ti. Sempronius Longus ${ }^{67}$ | 7 |  |  |  |  |
| 193 | L. Cornelius Merula A. Minucius Thermus | 6 |  |  |  |  |
| 192 | L. Quinctius Flamininus ${ }^{4}$ Cn . Domitius Ahenobarbus ${ }^{18}$ | 5 |  |  | $\begin{aligned} & \text { L. Aemilius Paullus }{ }^{114} \\ & \text { [CIL 1. } \left.{ }^{2} .1\right] \end{aligned}$ |  |
| 191 | $\mathrm{M}^{\prime}$. Acilius Glabrio ${ }^{35}$ <br> P. Cornelius Scipio Nasica | 4 |  |  |  |  |
| 190 | L. Cornelius Scipio C. Laelius | 5 |  | Q. Fabius Pictor ${ }^{\text {12/ }}$ [Livy ${ }^{\text {37.47.8] }}$ |  |  |
| 189 | Cn. Manlius Vulso M. Fulvius Nobilior | 0 |  |  |  |  |
| 188 | C. Livius Salinator ${ }^{29}$ M. Valerius Messalia ${ }^{40}$ | 2 |  |  |  |  |
| 187 | M. Aemilius Lepidus ${ }^{\text {os }}$ C. Flaminius | 0 |  |  |  |  |
| 186 | Sp. Postumius Albinus ${ }^{25}$ Q. Marcius Philippus ${ }^{79}$ | 4 |  |  |  |  |


| C. <br> Years | Consuls | No. of Prodigies | Pontifex <br> Maximus | Priests | Augurs | Xviri Sacris Faciundis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 185 | Ap. Claudius Pulcher <br> M. Sempronius <br> Tuditanus ${ }^{95}$ | 0 |  |  |  |  |
| 184 | P. Claudius Pulcher <br> L. Porcius Licinus | 0 |  |  | $\begin{array}{\|l} \text { Cn. Cornelius Lentulus } \\ \text { Sp. Postumius Albinus } \end{array}$ [Livy 39.45.8] |  |
| 183 | $\begin{aligned} & \text { Q. Fabius Labeo }{ }^{97} \\ & \text { M. Claudius } \\ & \text { Marcellus }{ }^{233 / 4} \end{aligned}$ | 3 | P. Licinius Crassus Dives ${ }^{69} \dagger$ <br> C. Servilius Geminus ${ }^{60}$ [Livy 39.46.1] | M. Sempronius Tuditanus ${ }^{\text {55 }}$ P. Licinius Crassus Dives ${ }^{69} \dagger$ [Livy 39.46.1] |  |  |
| 182 | L. Aemilius Paullus ${ }^{114}$ Cn. Baebius Tamphilus | 3 |  |  |  |  |
| . 181 | P. Cornelius Cethegus M. Baebius Tamphilus | 4 |  |  |  |  |
| 180 | A. Postumius Albinus <br> C. Calpurnius Piso | 1 | M. Aemilius Lepidus ${ }^{68}$ [Livy 40.42.12] | C. Cornelius Dolabella ${ }^{131} \dagger$ <br> C. Servilius Geminus ${ }^{60} \dagger$ <br> L. Valerius Flaccus ${ }^{35} \dagger$ <br> Q. Fabius Labeo ${ }^{91}$ <br> P. Cloelius Siculus <br> Q. Fulvius Flaccus ${ }^{61}$ <br> [Livy 40.42.6. 11] | Sp. Postumius Albinus ${ }^{25} \dagger$ <br> P. Cornelius Scipio ${ }^{331}$ <br> [Livy 40.41.13] | ${ }^{*}$ C. Servilius Geminus $\dagger$ Q. Marcius Philippus [Livy 40.42.11-12] |
| 179 | L. Manlius Acidinus Fulvianus Q. Fulvius Fiaccus ${ }^{61}$ | 7 |  |  |  |  |
| 178 | M. Iunius Brutus A. Manlius Vulso | 0 |  |  |  |  |
| 177 | Ti. Sempronius Gracchus ${ }^{53}$ | 9 |  | M. Claudius Marcellus M. Claudius Marcellus [Livy 41.13.4] |  |  |


| C. Years | Consuls | No. of Prodigies | Pontifex <br> Maximus | Priests | Augurs | Xviri Sacris Faciundis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 176 | Cn. Cornelius Scipio Hispallus ${ }^{\text {346 }}$ Q. Petillus Spurinus | 3 |  | Cn. Cornelius Scipio Hispalilus ${ }^{346} \dagger$ <br> L. Furius Philus ${ }^{77}$ <br> [Livy 41.16.4] |  |  |
| 175 | P. Mucius Scaevola M. Aemilius Lepidus ${ }^{68}$ | 0 |  |  |  |  |
| 174 | Sp. Postumius Albinus <br> Q. Mucius Scaevola | 9 |  | Cn. Senvilius Caepio ${ }^{4 \pi} \dagger$ <br> M. Sempronius Tuditanus ${ }^{\text {95 }} \dagger$ <br> C. Sulpicius Galba ${ }^{50}$ <br> Cn. Cornelius <br> [Livy 41.21.8-9] |  | Ti. Sempronius Longus ${ }^{67} \dagger$ <br> C. Sempronius Longus ${ }^{63}$ [Livy 41.21.8-9] |
| 173 | L. Postumius Albinus M. Popillius Laenas | 5 |  |  |  | L. Comelius Lentulus $\dagger$ A. Postumius Albinus [Livy 42.10.6] |
| 172 | C. Popillius Laenas P. Aelius Ligus | 5 |  | Q. Fulvius Flaccus ${ }^{61} \dagger$ Cn. Domitius Ahenobarbus ${ }^{19}$ [Livy 42.28.10-13] |  | L. Aemilius Papus $\dagger$ M. Valerius Messalla ${ }^{40}$ [Livy 42.28.10-13] |
| 171 | P. Licinius Crassus C. Cassius Longinus | 0 |  |  |  |  |
| 170 | A. Hostilius Mancinus A. Atilius Serranus | 0 |  | L. Furius Philus ${ }^{\prime \prime} \dagger$ C. Livius Salinator ${ }^{29} \dagger$ T. Manlius Torquatus ${ }^{83} \mathrm{M}$. Servilius [Livy 43.11.13] | L. Quinctius Flamininus ${ }^{4} \dagger$ [Livy 43.11.13] |  |
| 169 | Q. Marcius Philippus ${ }^{79}$ Cn Servilius Caepio | 10 |  | P. Quinctilius Varus $\dagger$ [Livy 44.18.7] |  | $\qquad$ |
| 168 | L. Aemilius Paullus ${ }^{\text {T/4 }}$ C. Licinius Crassus | 0 |  | L. Postumius Albinus [Livy 45.15.10] |  |  |
| 167 | Q. Aelius Paetus M. Iunius Pennus | 5 |  | $\begin{aligned} & \text { Q. Fabius Pictor }{ }^{\text {I2T }} \dagger \\ & \text { [Livy 45.44.3] } \end{aligned}$ | C. Claudius Pulcher ${ }^{306}{ }^{\dagger}{ }^{\text {T. }}$ Quinctius Flamininus ${ }^{6}$ [Livy 45.44.3] |  |

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[^0]:    ${ }^{1}$ Nock (1963), p. 504.
    ${ }^{2}$ WEBER (1965), p. 12 puts the situation well: "The Roman was centrally concerned with questions of legal etiquette, not questions of sin, punishment, penitence, and salvation." This certainly stands in stark contradistinction to religions of today, such as the Christian religion, where individuals must repent of their sins and follow an ideal way of life governed by morality and Commandments, in order finally to achieve their salvation and Eternal Life. This was not the sort of religious instinct possessed by the Romans until the passing of many centuries. Their religion was more concerned with successful enterprise rather than personal and individual goodness. Its thrust is well reflected at Cicero, N.D. 3,87, where the writer explains, Iovemque optumum et maxumum ob eas res appellant, non quod nos iustos temperatos sapientes efficiat, sed quod salvos

[^1]:    ${ }^{7}$ Bergson (1961), p. 332.
    ${ }^{8}$ Livy, 28,11.1.
    ${ }^{9}$ Exodus 24.5-8: "Then he directed certain young Israelites to offer holocausts and to immolate bullocks to Yahweh as communion sacrifices. Half of the blood Moses took up and put into basins, the other half he cast on the altar. And taking the Book of the Covenant he read it to the listening people, and they said, "We will observe all that Yahweh has decreed; we will obey." Then Moses took the blood and cast it towards the people. "This," he said, "is the blood of the Covenant that Yahweh has made with you, containing all these rules."

[^2]:    ${ }^{10}$ Weber (1965), p. 28, makes an interesting observation vis-à-vis the definition of "gods" and "denons" based on this inability of the Romans to coerce their gods, forced instead to approach them with only gifts and pleas. He writes that "the relationship of men to supernatural forces which take the forms of prayer, sacrifice and worship may be termed "cult" and "religion," as distinguished from "sorcery," which is magical coercion. Correspondingly, those beings that are worshipped and entreated religiously may be termed "gods," in contrast to "demons," which are magically coerced and charmed."
    ${ }^{1}$ Fowler (1922), p. 203.

[^3]:    ${ }^{12}$ NORTH (1989), p. 593. There was also a rite that could be performed to gain the favour and support of other people's gods. Evocatio was the Roman means by which the gods of an enemy could be wooed away from them. They were promised worship, continuance of their cults, and even a temple in Rome if they withdrew their support from Rome's enemies. A very good example of the formula employed for this evocatio, apparently from a book by Furius, can be found in MaCROBIUS, Sat. 3,9.7-8:
    est autem carmen huius modi quo di evocantur cum oppugnatione civitas cingitur: Si deus, si dea est, cui populus civitasque Carthaginiensis est in tutela, teque maxime, ille qui urbis huiuh populique tutelam recepisti, precor venerorque veniamque a vobis peto ut vos populam civitatemque Carthaginiensem deseratis, loca templa sacra urbemque eorum relinquatis, absque his abeatis eique popilo civitati metum formidinem obilvionem iniciatis, proditique Romam ad me meosque veniatis, nostraque vobis loca tempia sacra urbs acceptior probatioque sit, mihique popiloque Romano militibusque meis praepositi sitis ut sciamus intellegamusque. si ita feceritis, voveo vobis templa ludosque factorum (the formula to call forth the gods of a besieged city runs as follows: "To any god, to any goddess, under whose protection are the people and state of Carthage, and chiefly to you who are charged with the protection of this city and people, I make prayer and do reverence and ask grace of you all, that you abandon the people and state of Carthage, forsake their places, temples, shrines, and city, and depart therefrom; and that upon that people and state you bring fear and terror and oblivion; that once put forth you come to Rome, to me and to mine; and that our places, temples, shrines, and city may be more acceptable and pleasing to you; and that you take me and the Roman people and my soldiers under your charge; that we may know and understand the same. If you shall so have done, I vow to you temples and solemn games.")

[^4]:    ${ }^{15}$ Weber (1965), p. 7.
    ${ }^{16}$ The common Roman was content to see something being done to protect him and his, and it was really only in this way that many religious rites held any meaning for him.
    ${ }^{17}$ Every household had its own lar and penates, every male his own genius. In addition some 'minor' deities received their worship from individuals. The paterfamilias was concerned with his morning prayers, and libations to the penates, with prayers to the myriad gods of the fields or woods or livestock; but his dealings with the state gods were entirely through the authorities set above him, and his sole duty in regard to them was to keep free from all civic transactions those days which had been decreed to be of religious importance (nefas). Unifortunately, private religion

[^5]:    ${ }^{21}$ Livy, 5,51.5.

[^6]:    ${ }^{22}$ It is not within the scope of this chapter, or indeed this thesis, to delve into specific duties of the personnel within these various colleges. Such matters have been well explicated by such authorities as SZEMLER (1971) and BEARD (1988).
    ${ }^{23}$ NORTH (1989), p. 586. Note in particular LIVY, 1,20.5-7: pontificem deinde Numam Marcium Marci filium ex patribus legit eique sacra omnia exscripta exsignataque attribuit, quibus hostiis, quibus diebus, ad quae templa sacra fierent atque unde in eos sumptus pecunia erogaretur. cetera quoque omnia publica privataque sacra pontificis scitis subiecit, ut esset quo consultum plebes veniret, ne quid divini iuris neglegendo patrios ritus peregrinosque adsciscendo turbaretur; nec caelestes modo caerimonias, sed iusta quoque funebria placandosque manes ut idem pontifex edoceret, quaeque prodigia fulminibus aliove quo visu missa susciperentur atque curarentur (he next chose as pontifex Numa Marcius, son of Marcus, one of the senators, and to him he entrusted written directions, full and accurate, for performing the rites of worship; with what victims, on what days, and from what sources money was to be disbursed to pay their cost. All other public and private sacrifices he likewise made subject to the decrees of the pontifex, that there might be someone to whom the commons could come for advice, lest any confusion should arise in the religious law through the neglect of ancestral rites and the adoption of strange ones. And not merely ceremonies relating to the gods above, but also proper funeral observances and the propitiation of the spirits of the dead were to be taught by the pontifex as well, and also what prodigies manifested by lightning or other visible signs were to be taken in hand and averted).

    CICERO Har. 14: pontifices...quorum auctoritati, fidei, prudentiae maiores nostri sacra religionesque et privatas et publicas commendarunt (...pontifices ...to whose authority, loyalty, and wisdom our ancestors entrusted all matters of religion and of private and public observance).

[^7]:    ${ }^{24}$ LIVY, 1,36.6.
    ${ }^{25}$ These books possessed a chequered history indeed. Reputed to have been obtained by Tarquinius Priscus, there were originally nine of them, but through Tarquinius' folly, this total was reduced to three. (The story of the books may be found at PLINY, N.H. 13.88 and DIONYSIUS OF Halicarnassus, 4,62.1-6.) The books were then placed under the charge of the Xviri Sacris Faciundis (initially only duumviri), the only men allowed to consult them, until 83 BCE when they were destroyed in the burning of the Capitol. It was necessary then for another collection of oracles to be compiled from various sources outside Rome, from Italy, Greece, and the East, because the Romans had become in a manner of speaking addicted to the prophecies they contained. From exactly where the original verses came, or how, it is impossible to know, but the Romans carefully preserved and consulted them because "ils passaient pour contenir les secrets grâce auxquels pouvait se développer la puissance romaine." [BLOCH, (1984), p. 80.] The verses, according to Cicero Div. 2.112, were written in Greek hexameters and authenticated by the presence of anacrostics. The letters of the first line of a verse group were identical to the initial letters of each line of the group, enabling the same words to be read vertically as well as horizontally. Any non-original or interpolated line would break this pattern, which may have been deliberately established to deter tampering. It seems clear that the original books must have

[^8]:    consisted primarily of a series of instructions along the lines of, "In the event of a rain of stones..." and that the Xviri, on being ordered by the Senate to furnish an expiation for a particular phenomenon, browsed through the books until they found the phenomenon in question with its set remedy. NORTH (1989), p. 617-8, is also of the opinion that the books contained sets of remedia, and he adds that, "it was in this context that the Books suggested new cults and rituals, providing legitimation by their antiquity and their foreignness." We learn from Livy that the Sibylline Pooks also included prophesies, such as the one of 205 bCE which caused the Magna Mater to be relocated to Rome: civitatem eo tempore repens religio invaserat invento carmine in libris Sibylinis propter crebrius eo anno de caelo lapidatum inspectis, quandoque hostis alienigena terrae Italiae bellum intulisset, eum pelli Italia vincique posse, si mater Idaea a Pessinunte Romam advecta foret (at the same time religious scruples had suddenly assailed the citizens because in the Sibylline books, which were consulted on account of the frequent showers of stones that year, an oracle was found that, if ever a foreign foe should invade the land of Italy, he could be driven out of Italy and defeated if the Idaean Mother should be brought from Pessinus to Rome) [29,10.4-5].
    ${ }^{26}$ Livy, 10,8.2: decemviros sacris faciundis, carminum Sibyllae ac fatorum populi huius interpretes, antistites eosdem Apollinaris sacri caerimoniarumque aliarum plebeios videmus (we shall see that plebeians are Xviri charged with the sacred rites, interpreters of the Sibylline oracles and the destinies of this people, the same being also overseers of Apollo's ritual and of other ceremonies).
    ${ }^{27}$ Parke (1988), p. 192.
    ${ }^{28}$ Haruspices were not generally considered as belonging to a priestly college per se, and historians such as Szemler (1971) and North (1989) tend not to include them under this umbrella. Ogilvie (1969) p. 65, clearly states that they were never an official priesthood in Rome. WEBER (1965) pp. 28-9, experiences difficulty in defining a priest but finally concludes (p. 30), "It is more correct for our purposes, in order to do justice to the diverse and mixed manifestations of this phenomenon, to set up as the crucial feature of the priesthood the

[^9]:    specialization of a particular group of persons in the continuous operation of a cultic enterprise, permanently associated with particular norms, places and times, and related to specific social groups."
    ${ }^{29}$ Dionysius of Halicarnassus, 2,21.3.
    ${ }^{30}$ Cicero, Fam. 3,9.
    ${ }^{31}$ Hahm (1963), p. 82 f.

[^10]:    ${ }^{32}$ BLOCH (1963), p. 83.
    ${ }^{33}$ There were other methods familiar to the Romans conducive to discerning the will of the gods and discovering whether or not their support would be forthconing for a particular enterprise (see Cicero, Div. 1.93). One such was taking auspicia, signs obtained through observations of birds, their song and the speed and direction of their flight. This later developed to include the study of birds' eating habits (ex tripudiis), particularly those of the sacred clickens who either ate or refused to eat by way of indicating that the gods approved or disapproved of any specific course of action. A striking and unusual example of defiance of auspicia is recorded at Suetonius, Tib. 2.2: Claudius Pulcher apud Siciliam non pascentibus in auspicando pullis ac per contemptum religionis mari demersis, quasi ut biberent quando esse nollent, proelium navale iniit (Claudius Pulcher began a sea-fight off Sicily, though the sacred clickens would not eat when he took the auspices, throwing them into the sea in defiance of the omen, and saying that they might drink, since they would not eat). Appropriately, the battle culminated in Roman defeat. A counterpart of taking auspices, the province of the augurs, was inspection of entrails, the specialism of the haruspices. As interesting as such methods of attempting to learn the gods' wills may be, they generally involved conscious efforts on the part of man, the gods' will was there to be read if one was prepared to search for specific signs. As such, they were open to exploitation and invention.

[^11]:    ${ }^{43}$ CICERO, Div. 2.102: neque nostra nihil interest scire ea quae futura sunt (erimus enim cautiores, si sciemus); neque hoc alienum ducunt maiestate sua (nihil est enim beneficentia praestantius) ... significant ergo; et non, si significant futura, nullas dant vias nobis ad significationem scientiam (frustra enim significarent) (nor is it true that it is of no advantage to us to know what is going to happen (for man would be more prudent if he knew); nor is it true that the gods think it inconsistent with their dignity to give forecasts of the future (for there is no more excellent quality than kindness) ... thereiore they give us signs; and it is not true, if they give us such signs, that they give us no means of understanding those signs, otherwise their signs would be useless).
    ${ }^{44}$ Even so, Szemler (1972), p. 36, contends that the expiatory prescriptions given by the priests to the Senate were not simply suggestions. He says that the "weight and importance [of the offered advice] rested in the Romans' view of gods and religio, a culmination of which was expressed in the late Republic" by Cicero at Har. 19: quam volumus licet, patres conscripti, ipsi nos amemus, tamen nec numero Hispanos nec robore Gallos nec calliditate Poenos nec artibus Graecos nec denique hoc ipso huius gentis ac terrae domestico nativoque sensu Italos ipsos ac

[^12]:    Latinos, sed pietate ac religione atque hac una sapientia, quod deorum numine cmnia regi gubernarique perspeximus, omnes gentes nationesque superavimus (however good by our conceit of ourselves, conscript fathers, we have excelled neither Spain in population, nor Gaul in vigour, nor Carthage in versatility, nor Greece in art, nor indeed Italy and Latium itself to the innate sensibility characteristic of this land and its peoples; but in piety, in devotion to religion, and in that special wisdom which consists in the recegnition of the truth that the world is swayed and directed by divine disposal, we have excelled every race and every nation).
    ${ }^{45}$ See especially, CICERO, Q. fr. 3,5.1. The first recerded occurrence of a rain of stones appears in the reign of King Tullus, and Livy, 1,31.4 tells that, Romanis quoque ab eodem prodigio novendiale sacrum publice susceptum est... mansit certe sollemne, ut quandoque idem prodigium nuntiaretur, feriae per novem dies agerentur (the Romans also, in consequence of the same portent, undertook an official nine days' celebration ...at all events it remained a regular custom that whenever the same prodigy was reported there should be a nine days' observance).
    ${ }^{46}$ Livy, 22,1.15.

[^13]:    ${ }^{47}$ MACBAIN (1982), pp. 82-106, presents an appendix at the end of his book which shows which priesthood was involved in the expiatory processes of the prodigies listed in the books of ancient authors from the reign of King Tullus Hostilias to 363 CE . His table is set out cleariy and is well worth careful study.
    ${ }^{18}$ LIVY, 42,20.3-4.

[^14]:    ${ }^{49}$ LIVY, 27,37.6-7.
    ${ }^{50}$ LIVY, 27,23.4: horum prodigiorum caus. diem unum supplicatio fuit. per dies aliquot hostiae maiores sine litatione caesae, diuque non impetrata pax deum (on account of the prodigies prayers were offered for one day. For several days full-grown victims were slain without a favourable result, and for a long time the peace of the gods was not secured).

[^15]:    ${ }^{51}$ Livy provides several references in his history to the consuls' having to perform expiations fore departing Rome: e.g. 33,26.6: priusquam aut hi praetores ad bellum prope novum... proficiscerentur, aut ipsi consules ab urbe moverent, procurare ut adsolet prodigia quae nuntiabantur iussi (before either these praetors departed for a war nearly new, because for the first time the Spaniards, without any Punic army or leader had taken to arms on their own account, or the consuls themselves moved from the city, they were ordered to expiate, as usual, the prodigies that had been announced).

[^16]:    ${ }^{52}$ See above, n. 38.

[^17]:    ${ }^{53}$ LIVY, 44,37.5-7.

[^18]:    ${ }^{54}$ Krauss (1930).
    ${ }^{5 s}$ NEWTON (1966). As will emerge below, other authors have chosen to concentrate on certain phenomena rather than pursue comprenensiveness.

[^19]:    ${ }^{56}$ Betlam (1993), pp. 96-7; Jenniskens et al. (1994), pp. 246-54.
    ${ }^{57}$ Rasmussen (1990).
    ${ }^{58}$ See, for example, SCHCVE (1948) and (1951).
    ${ }^{59}$ STOTHERS, (1979b). His article is headed by a neat summary which it is well to reproduce here both to illustrate what scientists have attempted to prove, and to demonstrate the scientific applications to which a section of classical literature can be put by those outside of the field of classical studies:
    "Early accounts of phenomena that may be identified as auroral displays have been abstracted from reports of unusual celestial prodigies in the classical literature. An extensive catalog of ancient aurorae and a new mathemaical method of analyzing fragmentary time series of observations have been used to demonstrate, provisi. nally, that an auroral cycle actually existed in antiquity, at least during the 2nd century BC, and that it had an average length and amplitude comparable with those of the modern auroral cycle. On the reasonable assumption that solar activity has always been the factor responsible for aurorae, it can be concluded that the solar cycle two millennia ago wis very similar to what it is today." '

[^20]:    ${ }^{60}$ For a collection, going beyond prodigial material, of probable, possible and doubtful reports of ancient cometary observations, see BARRETT (1978). His concluding remarks show that he at least is well aware of the need for caution in using such data.

[^21]:    ${ }^{61}$ STOTHERS (1979a), p. 90. Schove (1948) countenances a similar view.

[^22]:    ${ }^{62}$ See, for example, LIVY, 39,46.5: per biduum pluvisset in area Volcani (for two days it had rained blood in the precinct of Vulcan).
    ${ }^{63}$ See Livy, 34,45.6: in foro et comitio et Capitolio sanguinis guttae visae sunt (in the Forum and the comitium and on the Capitoline drops of blood were seen).
    ${ }^{64}$ Compare Tatlock (1914), p. 442.

[^23]:    ${ }^{65}$ Exceptionally SCHOVE (1948), p. 180, acknowledges that there are problems with Roman chronology. His attitude seems to be that in the absence of dateable parallel records from another culture, one is forced to opt for one of a pair of proleptic julian years by something approaching an act of faith.

[^24]:    ${ }^{66}$ Books 4.1-45 survive only by way of a single manuscript which has suffered some unfortunate losses.

[^25]:    ${ }^{67}$ It is something of a mystery why Obsequens selected this particular starting point.

[^26]:    ${ }^{1}$ See, for example, Varro, Rust., 1,28: dies primus est veris in aquario, aestatis in tauro, autumni in leone, hiemis in scorpione (the first day of spring occurs [when the sun is] in Aquarius, that of summer when it is in Taurus, of autumn when it is in Leo, of winter when it is in Scorpio). In book 11 of his de Re Rustica, Columella sets out the entire year's agricultural tasks with clear and exact reference to risings and seftings of stars and constellations.

[^27]:    ${ }^{2}$ Samuel (1972), p. 3.
    ${ }^{3}$ Dicks (1970), p. 24. See also Varro, Rust., 1,28.2: suptilius descriptis temporibus observanda quaedam sunt, eqque in partes VIII dividuntur: primum a favonio ad aequinoctium vernum [20 March] dies XLV, hinc ad vergiliarum exortum dies XLIV, ab hoc ad solstitium [21 June] dies xlilx, inde ad caniculae signum dies XXVII, dein ad aequinoctium autumnale [ 22 Sept.] dies LXVII, exin ad vergiliarum occasum dies $\chi x x I$, ab hoc ad brumam [22 Dec.] dies LvI, inde ad favonium dies XLV (but in the more exact divisions certain things are to be taken into account, which cause an eightfold division: the first from the rising of the west wind to the vernal equinox, 45 days, thence to the rising of the Pleiades 44 days, thence to the solstice 48 days, thence to the rising of the Dog Star 27 days, thence to the autumnal equinox 67 days, from there to the setting of the Pleiades 32 days, hence to the winter solstice 57 days, and back to the rising of the west wind 45 days).

[^28]:    ${ }^{4}$ Samuel (1972), p. 5.

[^29]:    ${ }^{5}$ MICheLS (1967), p. 14f.
    ${ }^{6}$ SAMUEL (1972), p. 11.

[^30]:    ${ }^{7}$ The Fasti Antiates Maiores, most accessible in A. Degrassi's Inscriptiones Italiae (II) xili.2, painted in red and black letters on white plaster and the only surviving pre-julian Fasti, confirm these lengths later described by several literary sources. An example of one such source is Macrobius, Sat. 1,13.6-7: Ianuarius igitur Aprilis Iunius Sextilis September November December undetricenis censebantur diebus et quintanas nonas habebant... Martius vero Maius Quintilis et October dies tricenos singulos possidebant... sed solus Februarius viginti et octo retinuit dies... (and so it was ordained that January, April, June, Sextilis, September, November, and December should be months of twenty-nine days each... but March, May, Quintilis and October had thirtyone days... February alone kept its twenty-eight days...
    ${ }^{8}$ A lengthy analysis of evidence pertaining to a putative ten-month year can be found in Samuel (1972), pp. 167-70. Since it is a feature of a period remote from the middle republic, the topic requires no discussion in the present context.
    ${ }^{9}$ For some details, see chapter 3 below.

[^31]:    ${ }^{10}$ Michels (1967), p. 98.
    ${ }^{11} C f$. Michels (1967), pp. 20 f for discussion of these ceremonies.
    ${ }^{12}$ ibid., p. 21.

[^32]:    ${ }^{13}$ The so-called feriae stativae, whose dates emerge from the Fasti Antiates Maiores and later counterparts. There were two other groups of festivals, the feriae conceptivae and the feriae imperativae. The former were moveable feasts, held annually, but on dates deternined each year by the appropriate officials. Festivals of this kind included the feriae Latinae, whose date was fixed at the beginning of the consular year by the newly incumbent consuls and usually celebrated before they departed for their provinces. The feriae imperativae were totally irregular feasts, announced by consuls, dictators, or prators, in the event of victories or emergencies, or in expiation of certain prodigies. An example of the latter category is the novendiale performed to expiate a rain of stones. On all these matters, see, for example, Scullard (1981), p. 39.

[^33]:    ${ }^{14}$ While relatively forthcoming, the third century CE grammarians, CENSORINUS (de die natali 20,1-10) and SOLINUS ( $1,34-47$ ) do not match Macrobius in respect of detail.
    ${ }^{15}$ Davies (1969), pp. 90-95.

[^34]:    ${ }^{16}$ Since the concept of calendrical advance and its counterpart, retard, confuses some, the following by way of explanation. If the Roman calendar shows Kal. Aprilis but tie julian equivalent is 31 st March or earlier, then the calendar is in advance of the seasons. If the Roman calendar shows Kal. Aprilis but the julian equivalent is 2nd April or later, then the calendar is in retard of the seasons.
    ${ }^{17}$ Macrobius, Sat. 1,12.38.
    ${ }^{18}$ There exists a contention (Leuze, [1930], pp. 132f) that the final column of the Ant. Mai. as preserved is actually the penultimate column and that an intercalary month of the alternative length of 28 days was displayed in the true final column. The rationale behind the proposal is the feeling that in all intercalary years, whether 22 or 23 were inserted, February should have concluded on the same date, the 24th. Although the Ant. Mai. is incomplete in some respects a fourteenth column is unlikely and intercalary months of 28 as well as 27 days are not readily compatible with Livy, $43,11.13$ and $45,44.3$.
    ${ }^{19}$ Michels (1967), p. 17.

[^35]:    ${ }^{20}$ Macrobius, Sat. 1,13.11-13.
    ${ }^{21}$ It is conccivable that some of the ultimate fine tuning that Macrobius reports was implemented in the period running from 153 BCE , when the commencement day of tia consular year was shifted to January 1 , to the late 60 s, prior to the escalating disorder which led to the Julian reform.

[^36]:    ${ }^{22}$ Merrill (1924), p. 29.
    ${ }^{23}$ ibid., p. 30. Merrill refutes claims to the contrary - such as that of FOWLER (1899) -by mildly observing that "an explanation is not properly an object of suspicion because it explains and does it well and simply." (p. 31)
    ${ }^{24}$ ibid., p. 37.
    ${ }^{25}$ ibid.

[^37]:    ${ }^{26}$ ibid., p. 38.
    ${ }^{27}$ Macrobius, Sat., 1,13.15: deinde reliquos Februarii mensis dies, ctic erant quinque, post intercalationem subiungebant, credo vetere religionis suae more, ut Februarium omni modo Martius consequeretur (they made the five remaining days of February follow the intercalation, in accordance, I take it, with their old religious custom, namely to ensure that March should in any case come immediately after February).

    See Michels (1962), p. 174.
    ${ }^{28}$ Macrobius, Sat., 1,13.16: ...since either event was thought to be disastrous for the State.
    ${ }^{29}$ Macrobius, Sat., 1,13.19.
    ${ }^{30}$ See MiChels (1967), p. 166 n. 12.

[^38]:    
     and among other things the market that was held on every ninth day, came on the very first day of January).
    
    
     to the rule, in order that the first day of the succeeding year should not coincide with the market held every nine days - a clash which had always been strictly guarded against from very early times).
    ${ }^{33}$ Macrobius, Sat., 1,13.17: nam quotiens incipiente anno dies coepit qui addictus est nundinis, omnis ille annus infaustis casibus luctuosus fuit, maximeque Lepidiano cumultu opinio ist firmata est (whenever the day with which a year began was a market day, the whole of that year was one of unhappy disturbances and full of sorrow; and the disturbance for which Lepidus was responsible strongly supports this belief). Lepidus was driven out of Italy by Catulus with the help of Pompey.
    ${ }^{34}$ See above, n. 31

[^39]:    ${ }^{35}$ Cicero, Ver. 2,2.129: est consuetudo Siculorum ceterorumque Graecorum, quod suos dies mensesque congruere volunt cum solis lunaeque ratione, ut non numquam, si quid discrepet, eximant unum aliquem diem, aut summum biduum, ex mense, quod illi exaeresimos dies nominant; item non numquam uno die longiorem mensem faciunt aut biduo (it is the custom of the Siciiian as of all other Greeks, as they like to secure the agreement of their days of the month with the motions of the sun and moon, to correct and occasional discrepancy by shortening a month by sor:e one day, or two days at most, days which they term "eliminated"; also, they sometimes lengthen a month by one day, or by two days).

[^40]:    ${ }^{37}$ Michels (1967), p. 168.
    ${ }^{38}$ Samuel (1972), p. 162.
    ${ }^{39}$ AMmIANUS MARCELLINUS, 26,1.12: tunc magis errorum profunda caligine fluctuabant, cum in sacerdotes potestatem transtulissent interkalandi, qui licenter gratificantes publicanorum vel litigantium commodis, ad arbitrium suum subtrahebant tempora vel augebant (they wandered in still deeper darkness of error when they gave over the power of intercalation to the priests, who lawlessly served the advantage of tax-collectors or of parties in litigation by arbitrarily subtracting or adding days).
    ${ }^{40}$ CICERO, Leg. 2,12.29: ...quod institutum perite a Numa posteriorum pontificum neglegentia dissolutum est (...a custom which was wisely instituted by Numa, but has now become obsolete through the neglect of the pontiffs of later periods).
    ${ }^{41}$ Macrobsus, Sat., 1,14.1: verum fuit tempus cum propter superstitionem intercalatio omnia omissa est (but, nevertheless, religious scruples at times led to the omission of all intercalation).

[^41]:    ${ }^{42}$ Michels (1967), p. 169.
    ${ }^{43}$ Macrobius, Sat., 1,13.13: hoc quoque errore iam cognito haec species emendationis inducta est. tertio quoque octennio ita intercalandos dispensabant dies, ut non nonaginta sed sexaginta sex intercalarent, compensatis viginti et quattuor diebus pro illis qui per totidem annos supra Graecorum numerum creverant (when this error, too, was recognized, it was corrected as follows: in every third period of eight years sixty-six intercalary days were inserted, instead of ninety, to make up for the twenty-four days by which the Roman reckoning had exceeded the Greek in that sumber of years).
    ${ }^{44}$ Michels (1967), p. 169.
    ${ }^{45}$ ibid., p. 170.

[^42]:    ${ }^{46}$ See below, p. 83.
    ${ }^{47}$ Michels (1967), p. 171.
    ${ }^{48} \mathrm{ibid}$. See Livy, $45,43.1$ and 45,44.3.
    ${ }^{49}$ Michels (1967), p. 21.

[^43]:    ${ }^{50}$ Samuel (1972), p. 164.
    ${ }^{51}$ Not all dates are subject to the subjective approximation that Samuel implies. Those years in which there is found an astronomical synchronism can confidently be assumed to be completely accurate from the kalends of March to the 23rd of February. If there were evidence from historical sources that a year concerned was intercalary, and the number of days intercalated was stated, that would add another accurate year to our reconstructed calendar. The situation is not quite as hopeless as Samuel intimates.

[^44]:    ${ }^{52}$ DEROW (1976), pp. 265-81, and WARRIOR (1992), pp. 119-44, in particular have struggled with the reconstruction of military movements.

[^45]:    ' Some of these others are the Moslem year, the Chinese year, and the Hebrew year, all of which are reckoned from different dates, and, to some extent, arc of varying lengths. The academic year, different even in different countries that follow the Gregorian calendar, is shorter than the normal year.
    ${ }^{2}$ For consular assumption of office on this day in March, see, for example, Livy, 22,1.4: per idem tempus Cn. Servilius consul Romae idibus Martiis magistratum iniit (on the Ides of March, Cnaeus Servilius entered on his consulship at Rome). [217 BCE]

[^46]:    ${ }^{3}$ What follows is only a partial list of the known dates of the entry into office of the Roman consuls, selected to show the different possible dates of entry and the years in which entry was effected on these dates. For a comprehensive list, see Broughton (1952) pp. 637-9.
     $\pi \rho o \tau \epsilon \in o \iota \varsigma ~ \epsilon \epsilon \theta o \varsigma \dot{\eta} \nu \ldots$ (upon assuming office on the Kalends of September, earlier than had been customary with the former consuls... [493 BCE]

    LIvY, 3,6.1: kal. Sextilibus, ut tunc principium anni agebatur, consulatum ineunt (on the first of August, then the beginning of the year, they entered office). [ 463 BCE ]

    Livy, 3,36.3: idus tum Maiae sollemnes ineundis magistralibus erant (the Ides of May were at that time the traditional date for beginning a term of office). [ 450 BCE ]
    
    
     following year, the people having voted that consuls should again be appointed, Marcus Geganius Macerinus (for the second time) and Titus Quintius Capitolinus (for the fifth time) entered upon the consulship on the Ides of December). [443 BCE]

    Livy, 8,20.3: extemplo igitur consules novi L. Aemilius Mamercinus et C. Plautius, eo ipso die, Kalendis Quinctilibus, quo magistratum inierunt... (accordingly, without a moment's hesitation, the new consuls, Lucius Aemilius Mamercinus and Caius Plautius, were directed, on the very day on which they entered office, the Kalends of July... [329 BCE]
    ${ }^{4}$ For an encapsulation of modern opinion, see Samuel (1972), pp. 167-70. For eventual ancient convictions on such lines, set, for example, Gellius, N.A. 3,16.16, and Lydus, de Mens. 1,16.
    ${ }^{5}$ Ovid, Fast. 1,28.
    ${ }^{6}$ Ovid, Fast. 1,43.
    ${ }^{7}$ cf. CiCERO, Leg. 2,54; Ovid, Fast. 1,27-28, 39-44; Varro, L. 6,33-4; Censorinus, D. N. 20,3-5, among others.

[^47]:    ${ }^{8}$ See above n. 3.
    ${ }^{9}$ Michels (1967), p. 98, n. 15.
    
    
    
     ' $\rho \in \cup \sigma \pi \eta \eta_{\zeta}$ oivi $\alpha \varsigma \dot{\alpha} \pi \pi \dot{\alpha} \sigma \eta \zeta$ (they do best, however, who adopt the beginning after the winter solstice, when the sun has ceased to advance, and turns about and retraces his course toward us. For this beginning of the year is in a certain way natural to mankind, since it increases the amount of light that we receive and decreases the amount of darkness, and brings nearer to us the lord and leader of all mobile matter).

[^48]:    " Mommsen (1901) vol. mil, p. 215.
    ${ }^{12}$ cf. PLUTARCH, Q. R. 19 (268 B-C); 22 (269 A).

[^49]:    ${ }^{13}$ BRISCOE (1981), pp. 17-26.
    ${ }^{14}$ See Briscoe (1981), p. 26.
    ${ }^{15}$ Derow (1973), pp. 345-56.
    ${ }^{16}$ Marchetti (1973), pp. 473-96.
    ${ }^{17} \mathrm{Cf}$. for example, Warrior (1991), pp. 80-7.

[^50]:    ${ }^{1}$ LIVY, 37,4.4: a. d. quintum idus Quincti'es caelo sereno interdiu obscurata lux est, cum luna sub orbem solis subisset (on the fifth day before the Ides of Quintilis, in a clear sky, during the day, the light was dimmed since the moon passed before the circle of the sun).

[^51]:    ${ }^{2}$ Livy, 44,37.8: nocte quam pridie nonas Septembres insecuta est dies, edita hora luna cum defecisset... (on the night which was followed by the day before the nones of September, when the moon was eclipsed at the predicted hour...)
    ${ }^{3}$ Macrobius, Sat., 1,13.12-13.
    ${ }^{4}$ LIVY, 37,59.2: triumphavit mense intercalario pridie Kal. Martias (he triumphed during the intercalary month on the day before the Kalends of March).
    ${ }^{5}$ Fasti Triumphales Capitolini, 25: [C. Claudius Ap. f. P.] n. Pulcher cos. [de Histreis et] Liguribus k. Interk.
    ${ }^{6}$ LIVY, 43,11.13: hoc anno intercalatum est: tertio die post Terminalia Kalendae intercalariae fuere (in this year there was an intercalation; the additional month began on the third day after the Terminalia).
    ${ }^{7}$ LIVY, 45,44.3: intercalatum eo anno; postridie Terminalia kal. intercalariae fuerunt (there was an intercalation in this year; the day after the Terminalia was the first day of the intercalary month).

[^52]:    ${ }^{8}$ Derow (1973), p. 345.
    ${ }^{9}$ Fasti Triumphales Capitolini, 27: [M. Cla]udius M. f. M. n. Marcellus cos. a DXXCVII [de G]alleis Contrub[r]ieis et Liguribus [Elea]tibusque [k.] Interk.

[^53]:    ${ }^{10}$ Cicero, Att. 5,21.14.
    ${ }^{11}$ Censorinus, D. N. 20,8: ... faceretque eum annum dierum ccccxlv. According to Macrobius (see below), it was 443 days.
    ${ }^{12}$ Mackeblus, Sat., 1,14.3: ergo C. Caesar exordium novae ordinationis initurus dies omnes qui adhuc confusionem poterant facere consumpsit, eaque re factum est ut annus confusionis ultimus in quadringentos quadraginta tres dies protenderetur (Caesar therefore began the new arrangement of the calendar by using up all the days which could still have caused confusion, with the result that the last of the years of uncertainty was prolonged to one of four hundred and fortythree days).
    ${ }^{13}$ An examination of the works of every historian who has looked at intercalation would require much more room than can be provided here. For each of the sections, two theories will be discussed in depth with a view to pointing out prime merits and flaws, with other works being referred to en passant.

[^54]:    ${ }^{14}$ Derow (1973), p. 346.
    Is Macrobius, Sat., 1,13.12: per octo annos nonaginta quasi superfundendos Graecorum exemplo computabant dies, alternisque annis binos et vicenos, alternis ternos vicenosque intercalantes expensabant intercalationibus quattuor (in each period of eight years ninety days were to be reckoned as supernumerary, in accordance with the example of the Greeks, and they distributed these intercalary days by means of four intercalations, of twenty-two and twenty-three days alternately, every two years).
    ${ }^{16}$ In an attempt to avoid confusion, Derow's years have been converted to the consular years used throughout this work.
    ${ }^{17}$ Livy, 43,11.13.

[^55]:    ${ }^{18}$ Derow (1973), p. 355.
    ${ }^{19}$ For the period 190-168, Derow presents a table of the Kalends of each month equated with julian dates.

[^56]:    ${ }^{20}$ DEROW (1973), p. 346, n. 3.
    ${ }^{21}$ ibid., p. 348f: "It is fair to expect that the Lex Acilia aimed at guaranteeing that intercalation would henceforth be regularly performed."
    ${ }^{22}$ ibid., p. 346, n 3.

[^57]:    ${ }^{23}$ Warrior (1991) pp. 80-87.
    ${ }^{24}$ Derow (1973).
    ${ }^{25}$ WARRIOR (1991), p. 80.
    ${ }^{26}$ ibid., p. 81.
    ${ }^{27}$ ibid., p. 85.

[^58]:    ${ }^{28}$ ibid.
    ${ }^{29}$ See above, p. 70.
    ${ }^{30}$ WARRIOR (1992) pp. 119-44.
    ${ }^{31}$ ibid., p. 144. This theory was earlier proposed by Soltau (1889) pp. 39 ff .
    ${ }^{32}$ ibid., p. 141. Cf. WARRIOR (1991), p. 82.
    ${ }^{33}$ ibid., p. 126.

[^59]:    ${ }^{34}$ Broughton (1951) p. 352: "Acilius may have carried the Lex Acilia which placed intercalation under the power of the Pontifices."

    Scullard (1973) p. 28, n. 3 claims that the lex Acilia "empowered the pontiffs to intercalate the calendar at their discretion."

    Intercalation would have been necessary even in a lunar calerdar to maintain a correct relationship between the calendar and the year. The lunisolar calendar of the Roman republic had an equal need of intercalation.

[^60]:    ${ }^{35}$ WARRIOR (1992), p. 129.
    ${ }^{36}$ ibid., p. 131.
    ${ }^{37}$ WARRIOR (1988) p. 327-8.

[^61]:    ${ }^{38}$ ibid., p. 338.
    ${ }^{39}$ WARRIOR (1992), p. 139.
    ${ }^{40}$ Michel (1967), p. 100 f.

[^62]:    ${ }^{41}$ WARRIOR (1992), p. 120.
    ${ }^{42}$ ibid., p. 139.
    ${ }^{43}$ ibid., p. 143.
    ${ }^{44}$ ibid.

[^63]:    ${ }^{45}$ ibid., p. 139.
    ${ }^{46}$ WARRIOR (1991), p. 81: "Upon closer examination, however, one finds that Derow has a single-minded focus on this one hypothes? to the exclusion of all others."

[^64]:    ${ }^{47}$ Macrobius, Sat., 1,15.9: priscus ergo temporibus, antequam fasti a Cn. Flavio scriba invitis patribus in omnium notitiam proderentur, pontifici minori haec provincia delegabatur ut novae lunae primum observaret aspectum visamque regi sacrificulo nuntiaret (in early times, then, before the clerk Cnaeus Flavius (against the wishes of the Senate) had published the calendar there used to be assigned to a minor priest the duty of watching for the first appearance of the new moon and reporting its appearance to the high priest).
    ${ }^{48}$ See above, p. 89, n. 34.
    ${ }^{49}$ Macrobius, Sat., 1,13.21.

[^65]:    ${ }^{50}$ Lintort (1968) p. 190 proposes that the lex Acilia "possibly permitted increased intercalation so as to bring the calendar back into correspondence with the solar year." Such a proposal would be valid if intercalation had been occurring at all during this time.
    ${ }^{\text {St }}$ Cf. BRISCOE (1981), p. 19: "Since the consuls entered office on the Ides of March the first intercaiation that can have taken place after the passage of the law would have been that after 23/24 February in the year 191/190. It would, I think, be virtually impossible to argue that there was not an intercalation at that time."

    Marchetti (1973), p. 476: "Il est possible que les pontifes réintroduisirent l'usage du mois intercalarie l'année même de la promulgation de la loi de intercalando."
    ${ }^{52}$ WARRIOR (1988), pp. 331-7.
    ${ }^{53}$ Livy, 43,11.13.

[^66]:    ${ }^{54}$ By this system, the intercalary years are consular 189, 187, 185, 183, 181, 179, 177, 175, 173, 171, 170, and 159.
    ${ }^{55}$ For further, see section C below.
    ${ }^{56}$ Michels (1967), p. 171.

[^67]:    ${ }^{57}$ LIVY, 4), 28.8
    ${ }^{58}$ LJVY, 44.18.5.
    ${ }^{59}$ Hahm (1963) p. 76.

[^68]:    ${ }^{60}$ Columella, 11,2.84: IV idus Novembres hiemis initium (on the fourth day from the Ides of November is the beginning of winter).

    Varro, Rust. 1,28.3: primi...hiberni ex a.d. IV id. Nov (the first day... of winter is on the fourth day before the Ides of November).

[^69]:    ${ }^{61}$ If the earliest date for this is determined as the 10 th November, proleptic julian, then the equivalent civil calendar date is 11 th day of the intercalary month, 170 .
    ${ }^{62}$ Indeed, it was not only the Romans who were of this opinion as Livy tells [42,29.1]: non urbs tantum Roma nec terra Italia, sed omnes reges civitatesque quae in Europa quaeque in Asia erant converterant animos in curam Macedonici ac Romani belli (not only the city of Rome and the land of Italy, but also all kings and states both in Europe and Asia, had turned their minds to concern over the war between Macedonia and Rome).

    Particular Roman concern is evident not only in the innovations decreed (to be examined below) but also in a later passage of LIVY [42,35.3]: quo maturius in provincias magistratus proficiscerentur, Latinae kalendis Iuniis fuere (in order that the magistrates might set out sooner for their provinces, the Latin Festival was held on the Kalends of June). Very possibly the Roman mind believe that the sooner the army was gone, the sooner they could destroy the Macedonian threat.
    ${ }^{63}$ Livy, 42,31.4-5: ... ut centuriones militesque veteres scriberet quos vellet consul usque ad quinquaginta annos. ... ne tribuni militum eo anno suffragiis crearentur, sed consulem praetorumque in iis faciendis iudicium arbitriumque esset. (...that the consul might at his discretion enrol former centurions and soldiers up to fifty years of age. ...that tribunes of the soldiers should not be chosen by vote for this year but that the consuls and praetors should exercise their judgment and choice in appointing them).

[^70]:    ${ }^{1}$ Derow (1976), pp. 265-81.

[^71]:    ${ }^{2}$ For this period, Derow places the leap years in 203, 199, 195 and 191. The correct proleptic julian leap years are 201, 197, and 193. There is more accuracy in his table, at least for this later period, with only one other error, presumably typographical:

    20 ii 191 should read 21 ii 191.
    ${ }^{3}$ Soltau (1889), p. 195.
    ${ }^{4}$ Ovid, Fast. 6,765-770:
    sint tibi Flaminius Trasimenaque litora testes, per volucres aequos multa monere deos. tempora si veteris quaeris temeraria damni, quintus ab extremo mense bis ille dies. postera lux melior: superat Masinissa Syphacem, et cecidit telis Hasdrubal ipse suis.
    (be Flaminius and the Trasimenian shores your witness that the kind gods give many warnings by means of birds. If you ask the date of that ancient disaster, incurred through recklessness, it was the tenth day from the end of the month. The next day is luckier: on it Masinissa defeated Syphax, and Hasdrubal feil by his own sword).
    ${ }^{5}$ Derow (1976), p. 267.
    ${ }^{6}{ }^{i}$ ibid., p. 268. cf. also Briscoe (1981), p. 19.

[^72]:    ${ }^{7}$ Marchetti, (1973), pp. 495-6. The date of the celebration of this 'sacred spring' can be found in Livy, 34,44.3, where he writes that: ver sacrum videri pecus quod natum esset inter kal. Martias et pridie kal. Maias P. Cornelio et Ti. Sempronio consulibus (the 'sacred spring' was defined as including all animals born between the Kalends of March and the day preceding the Kalends of May in the consulship of Publius Cornelius and Tiberius Sempronius), an event which would have crossed the last days of one consulship and the first of another. If an intercalation is not allowed between those of C203 and C194, then the ver sacrum, scheduled to fall between 1st March and 29th April, would have in truth occurred between 21st October and 19th December, 194 proleptic julian. The terms of the ver sacrum were such that all animals born during spring were to be sacrificed to a selected god, commonly Jupiter. If such an event had occurred at the seasonally proscribed time of year, then goats (Varro, 2,3.8; Columella, 7,6.6), cows (Varro, $2,5.13$ ), and horses (VARRO, 2,7.7) would have been sacrificed, if the farmers of the republic had been following the breeding seasons described by imperial authors. By time-tabling the ceremony to occur in a 'spring' that was in actuality late autumn/early winter, the impact on farmers would have been considerably lessened, as only sheep (Varro, 2,2.13; Columella, 7,3.11) were born at this time of year, and so cows, pigs, horses and goats could have been spared. If, on the other hand, an intercalation had occurred before the ver sacrum of 194, then the celebration would have been held between 13th November, 194 and 11th January, 193 proleptic julian. The difference in the number of animals sacrificed would not have been very great, and therefore Marchetti's basing of his theory on such an event is not particularly compelling.
    ${ }^{8}$ Derow (1976), p. 268.
    ${ }^{9}$ ibid., pp. 269-71.
    ${ }^{10}$ LIVY, 32,32.1.
    ${ }^{11}$ Derow (1976), p. 269f, n. 16.

[^73]:    ${ }^{12}$ LIVY, 29,10.4-11.9; 14.5-14. There has been minor controversy over the correct date of the Idaean Mother's arrival in Rome. Some text have it as pridie Idus Aprilis, but others give pridie Nonas Aprilis. Most historians tend to prefer the latter reading, among whom is SCullard (1981), p. 97. The sacred stone of the Goddess arrived in Rome on 4th April, 191 bCE and was installed in the temple of Victory on 10th April. Scullard tells that an annual festival, the Megalesia, grew out of her worship.
    ${ }^{13}$ Derow (1976), pp. 272-3.

[^74]:    ${ }^{14}$ ibid., p. 274. (It must always be borne in mind that when Derow uses a date such as ' 202 ', he means 'consular 203'.)
    ${ }^{15}$ BRIND'AMOUR (1983).
    ${ }^{16}$ ibid. pp. 166-7.

[^75]:    
     ö $\tau \iota \alpha \alpha i \dot{o} \dot{\eta} \lambda \iota o \varsigma \sigma \dot{\nu} \mu \pi \alpha \varsigma \varsigma \dot{\epsilon} \xi \epsilon \bar{\epsilon} \iota \pi \epsilon \nu$ (accordingly, the Romans entered the conflict well marshalled and eager, but Hannibal and the Carthaginians listless and dejected. This was owing in part to a total eclipse of the sun). It is difficult to assess to what extent Zonaras was capable of garbling Cassius Dio, whose histories he was epitomizing.
    ${ }^{18}$ BRIND'AMOUR (1983), p. 169.
    ${ }^{19}$ Brind'Amour (1983), p. 169.

[^76]:    ${ }^{20}$ LIVY, 30,39.3: ubi dum subductae reficiuntur naves, hiems oppressit circumactumque anni tempus, et nullo prorogante imperium privatus Ti. Claudius classem Romam reduxit (there, white the beached ships were undergoing repairs, winter and the turn of the year overtook him, with noone seeking to prolong his command, it was as a private citizen that Tiberius Claudius brought the fleet back to Rome).
    ${ }^{21}$ BRIND'AMOUR (1983), p. 172.
     $\Sigma_{\kappa i \pi i} \omega \nu \alpha$ (after that he progressed no further than Sicily, for he learned that Scipio had proved the victor).
    ${ }^{23}$ BRIND'AMOUR (1983), p. 173.
    ${ }^{24}$ LIVY, 30,36.8: pars exercitus cum omni equitatu Saturnalibus primis agmen adgressa Numidarum levi certamine fudit (part of the infantry and all the cavalry attacked the column of the Numidians on the first day of the Saturnalia, and routed it after a slight engagement). The Saturnalia was celebrated from 17 to 23 December. This exact dating by Livy for a minor event is unusual but need not be rejected as spurious because there are later examples of precise dates for minor events in Livy, such as the return of the Roman emissaries from Carthage on the Nones of June, 174 civil [Livy, 41,22.1].

[^77]:    ${ }^{25}$ See p. 112 f below for further discussion of this point.
    ${ }^{26}$ BRIND'AMOUR (1983), p. 174.
    ${ }^{27}$ ibid.
     $\Sigma_{0 \lambda \pi i к \kappa o \varsigma ~}^{v} \pi \alpha \tau о \varsigma ~ к \alpha \tau \epsilon \sigma \tau \alpha \dot{\alpha} \eta \eta \dot{\epsilon} \nu$ ' $\mathrm{P} \dot{\mu} \mu \eta \ldots$... (at the beginning of the winter in which Publius Sulpicius was appointed consul in Rome...)
    ${ }^{29}$ Brind'Amour (1983), p. 141.
    
     suspecting his purpose, put his army in motion at the same time as Philip with the object of destroying the corn in the territory of Scotusa before his adversary could get there).

[^78]:    ${ }^{37}$ Livy, 33,6.8: itaque pariter ducibus consilium fuit excedendi ea regione, et velut ex praedicto ambo Scotusam petierunt, Philippus spe frumentandi inde, Romanus ut progressus corrumperet hosti frumenta (both commanders therefore reached the same decision, to retire from this country, and as if by agreement both marched in the direction of Scotusa, Philip hoping to find food there, the Roman by his advance to destroy the enemy's grain-supply).
    ${ }^{32}$ Varro, Rust. 1,32.1: inter solstitium et caniculam plerique messem faciunt, quod frumentum dicunt quindecim diebus esse in vaginis, quindecim florert, quindecim exarescere, cum sit maturum (between the solstice and the Dog Star, most farmers harvest, because it is a saying that the grain is in the sheath for fifteen days, blooms for fifteen days, dries for fifteen days, and is then ripe).

    COLUMELLA, 2,30.1: sed cum matura fuerit seges, ante quam torreatur vaporibus aestivi sideris, qui sunt vastissimi per exortum Caniculae, celeriter demetatur (but when the grain is ripe it should be quickly harvested before it can be parched by the heat of the summer sun, which is most severe at the rising of the Dog Star).
    ${ }^{33}$ Livy, 33,24.3.
    ${ }^{34}$ Livy, 33,25.1.
    ${ }^{35}$ Brind'AMOUR (1983), p. 142.

[^79]:    ${ }^{36}$ Briscoe (1981), p. 21.
    ${ }^{37}$ ibid., pp. 21-24.
    ${ }^{39}$ See above, p. 70, n. 47.
    ${ }^{40}$ Brind'AmOUR (1983), p. 143.

[^80]:    ${ }^{41}$ Zonaras, 9,14.
    ${ }^{42}$ Marchetti (1973), p. 484.
    ${ }^{43}$ ibid., p. 486.
    ${ }^{44}$ ibid., p. 477.

[^81]:    ${ }^{45}$ ibid., p. 485.

[^82]:    ${ }^{46}$ ibid. p. 486.
    ${ }^{47}$ LIVY, 30,38.8.

[^83]:    ${ }^{48}$ See above, p. 112 f .
    ${ }^{49}$ See above, p. 94, n. 51.
    ${ }^{50}$ BRIND'AMOUR (1983), p. 143.

[^84]:    ${ }^{51}$ Michels (1967), p. 171.
    ${ }^{52}$ Livy, 35,10.1: ambitio magis quam umquam alias exarsent consularibus comitiis (the canvassing at the consular election was more spirited than ever before).

[^85]:    ${ }^{1}$ inter al. Walbank (1957), p. 36: "Polybius wrote... without any consistent and rigid chronological scheme. Normally he closed his olympiad years with the end of the year's campaigning and the retirement of the troops to winter quarters... However, this system was capable of modification. The third book, for instance, ends virtually with the battle of Cannae, for obvious reasons; and such incidents as are appended in iii. 118 are selected to confirm the impression of overwhelming disaster, despite the fact that the revolt of Tarentum did not take place until 213... Similarly in book xv, which contained the events of Ol. 114, $2=203 / 2$, Polybius included the peace negotiations after Zama, because, though they belonged to the end of 202 or even early 201, they rounded off his account of the battle and the war. In this way Polybius was ready to modify his olympiad system for dramatic or other reasons."

    ClaUSS (1987), p. 67: "Although his account of the outbreak of the Second Punic War is seriously flawed, especially in terms of chronology both in general and even within the passage under construction [21.16], nevertheless in having the senate believe that Hannibal was coming to Italy and would soon fight before the walls of Rome, Livy himself makes no error nor slavishly adapts some vitiated source. The despair experienced by the senate is meant to be ironic and prophetic; moreover, it reflects the historian's peripatetic tastes and moral agenda."

[^86]:    ${ }^{2}$ DEROW (1976), pp. 274-81.
    ${ }^{3}$ Though there are fewer errors in this table than in the table devised for the period 190-167, one of those that Derow failed to eliminate is quite dramatic. As before, the first date shown is the one provided in Derow's table, the second is the correct equivalence calculated internally from

[^87]:    ${ }^{8}$ ibid. collected every day).
    ${ }^{10}$ Derow (1976), p. 275.
    ${ }^{11}$ ibid.
    ${ }^{12}$ ibid. p. 276.
    ${ }^{13}$ ibid.
    ${ }^{14}$ ibid.

[^88]:    ${ }^{21}$ e.g. UNGER (1884), pp. 545-64; DE SANCTIS (1968).
    ${ }^{22}$ Derow (1976), p. 277, n. 36.
    ${ }^{23}$ Macrobius, Sat. 1,16.26: cladem illam vastissimam pugnae Cannensis factam refert ante diem quartum nonas Sextiles (the overwhelming disaster of the battle of Cannae occurred on the fourth day before the Nones of Sextilis).
    ${ }^{24}$ Derow (1976), p. 277.
    
     the season was advanced enough for them to get supplies from the year's crops that Hannibal moved his forces out of the camp near Gerunium).

[^89]:    ${ }^{26}$ DEROW (1976), p. 278.
    ${ }^{27}$ ibid.
    ${ }^{28}$ Livy, 23,32.14-15: Q. Fabius, consulto prius senatu, ut frumenta omnes ex agris ante kal. Iunia primas in urbes munitas conveherent (Quintus Fabius, after first consulting the Senate, gave orders that all should bring their grain crops from the farms into fortified cities before the next Kalends of June).
    ${ }^{29}$ Derow (1976), p. 278.
    ${ }^{30} \mathrm{ibid} .$, p. 279.

[^90]:    ${ }^{38}$ Derow (1976), p. 281.
    ${ }^{39}$ ibid., p. 279.
    ${ }^{40}$ LIVY, 28,11.11: principio deinde veris et ipsi ad bellum profecti sunt (then at the beginning of spring they also set out for the field).
    ${ }^{4!}$ Derow (1976), p. 279.
    ${ }^{42}$ Derow (1976), p. 279, n. 45.
    ${ }^{43}$ Scullard (1981), p. 114.

[^91]:    ${ }^{44}$ It must be noted and constantly borne in mind that Brind'Amour does not use consular years but rather the calendrical year from January to December, and so references to intercalations relate to the previous year.
    
    
     (however, the Romans now moved by these considerations dispatched a force under Lucius Aemilius just be"r summer in the first year of the 140th Olympiad to operate in Illyria).
    ${ }^{46}$ Brind'Amour (1983), p. 157.
    ${ }^{47}$ Livy, 21,15.3: quinto deinde mense quam ab Carthagine profectus sit in Italiam pervenisse (after leaving New Carthage, he arrived in the fifth month in Italy).
    ${ }^{48}$ LIVY, 21,35.6; 21,38.1.
    ${ }^{49}$ Brind'Amour (1983), p. 157.

[^92]:    ${ }^{50}$ Livy, 21,25.1-2: in Italiam nihil ultra quam Hiberum transisse Hannibalem a Massiliensium legatis Romam perlatum erat, cum perinde ac si Alpes iam transisset, Boi soliicitatis Insubribus defecerunt nec tam ob veteres in populum Romanum iras quam quod nuper circa Padum Placentiam Cremonamque colonias in agrum Gallicum deductas aegre patiebantur (in Italy, meanwhile nothing more was known than that Hannibal had crossed the Ebro - which was the news that Massiliot envoys brought to Rome - when, as though he had already crossed the Alps, the Boi, after rousing up the Insubres, revolted. To this they were incited not so much by their old animosity against the Roman People as by vexation at the recent establishment of colonies in Gallic territory, near the Po, at Placentia and Cremona).
    ${ }^{51}$ Asconius, in Pisonianam, 2.
    ${ }^{52}$ Brind'Amour (1983), p. 157.
     about the winter solstice).

    Livy, 21,54.7: erat forte brumae tempus (it chanced to be the time of year around the winter solstice).

[^93]:    ${ }^{54}$ Brind'Amour (1983), p. 158.
    ${ }^{5 s}$ ibid.

[^94]:    ${ }^{61}$ Derow (1976), p. 272-3. This event is not specifically addressed in Derow's text as mentioned earlier, but the date can be ascertained from his table of equivalents on these pages.
    ${ }^{62}$ BRIND'AMOUR (1983), p. 160.
    ${ }^{63}$ ibid.
    ${ }^{64}$ Derow (1976), p. 277, n. 36.
    ${ }^{65}$ Brind'Amour (1983), p. 161.
    ${ }^{66} \mathrm{ibid}$. For the Pindar scholia conserned, see Hyp. Nem. $d$ and $e$.

[^95]:    ${ }^{67}$ LIVY, 22,32.1: quod reliquum autumni erat.
    ${ }^{68}$ ibid., p. 162.
    ${ }^{69}$ ibid.
    ${ }^{70}$ ibid.
     appointment, the Dictators laid down their office...)
    ${ }^{2}$ BRIND'AMOUR (1983), p. 162.

[^96]:    ${ }^{2}$ POLYBIUS, 3,100.8.
    ${ }^{74}$ Cf. p. 110, n. 32.
    ${ }^{75}$ RRIND'AMOUR (1983), p. 162.
    ${ }^{76}$ ibid.
    ${ }^{77}$ The tables of julian equivalents constructed by Brind'Amour run from civil January to civil December, rather than consular year March to March. As a consequence, the intercalary month of C217 is to be found between February and March of the year headed 216. Likewise, that which appears under 215 belongs to the previous year.
     रорך season was advanced enough for them to get supplies from the year's crops that Hannibal moved his forces out of the camp near Gerunium).
    ${ }^{79}$ Brind'Amour (1983), p. 163.

[^97]:    ${ }^{80}$ LIVY, 23,32.14.
    ${ }^{81}$ BRIND'AMOUR (1983), p. 163.
    ${ }^{82}$ ibid., p. 164.
    ${ }^{83}$ LIVY, 25,5.10: eodem tempore [this being the time of the military levy conducted after the induction of the new consuls] ex Sicilia litterae Marci Marcelli ... in senatu recitatae sunt (at the same time a letter from Marcus Marcellus... was read in the Senate).
    ${ }^{84}$ BRIND'AMOUR (1983), p. 164.
    ${ }^{85}$ Livy, 25,12.1: Romae consules praetoresque usque ad ante diem quintum kal. Maias Latinae tenuerunt (at Rome the consuls and praetors were detained by the Latin festival until the fifth day prior to the Kalends of May).

[^98]:    ${ }^{86}$ LIVY, 25,13.5: inde ex sociis circa populis, quo aestate comportatum erat, devehi frumentum in castra iussit (then he ordered grain to be brought into camp from allied peoples of the neighbourhood, among whom it had been garnered in the summer).
    ${ }^{87}$ BRIND'AMOUR (1983), p. 165.
    ${ }^{88}$ LIVY, 25,15.18.
    ${ }^{89}$ Brind'Amour (1983), p. 165.
    ${ }^{90}$ DEROW (1976), p. 279.
    ${ }^{91}$ Livy, 28,11.11.
    ${ }^{92}$ BRIND'AMOUR (1983), p. 165.

[^99]:    ${ }^{93}$ Derow (1976), p. 273.
    ${ }^{94}$ Brind'AMOUR (1983), p. 166.

[^100]:    ${ }^{97}$ LIVY, 22,1.14: his sicut erant nuntiata expositis auctoribusque in curiam introductis consul $d_{\mathrm{e}}$ religione patres consuluit (when the consul had laid these reports before the Senate exactly as they had come to him and had introduced into the Curia the men who vouched from their truth, he consulted the Fathers regarding their religious import).
    ${ }^{98}$ BRIND'AMOUR (1983), p. 160.
    ${ }^{9}$ Derow (1976), p. 275.

[^101]:    
    
     ascertained by inquiring from those who knew the country best that the other routs were both long and obvious to the enemy...)

    Livy, 22,1.1: iam ver adpetebat; itaque Hannibal ex hibernis movit (spring was now drawing on, and accordingly Hannibal moved out of his winter encampment).
    ${ }^{101}$ LIVY, 21,58.1-2: haud longi inde temporis dum intolerabilia frigora erant, quies militi data est, et ad prima ac dubia signa veris profectus ex hibernis in Etruriam ducit (for no long time thereafter, while the cold was still unbearable, he allowed his men to rest, and on the first doubtful signs of spring broke up his winter quarters and marched towards Etruria).
    ${ }^{102}$ DOREY \& DUDLEY (1971), p. 51.

[^102]:    
    
    
    
    
     (all the army indeed suffered much, and chiefly from wan of sleep, as they had to march through water for three continuous days and nights, but the Celts were much more worn out and lost more men than the rest. Most of the pack-animals fell and perished in the mud, the only service they rendered being that when they fell the men piled the packs on their bodies and lay upon them, being thus out of the water and enabled to snatch a little sleep during the night).

    This is further supported by Livy's mention of the recent flood of the Arno, 22,2.2: ...paludes ...qua fluvius Arnus per eas dies solito magis inundaverat (marshes... which the river Arno had lately flooded to an unusual extent).

    Both of these passages are implications of a thaw not simply beginning but well underway.
    104 Derow (1976), p. 275.
    ${ }^{105}$ BRIND'AMOUR (1983), p. 158.

[^103]:    ${ }^{106}$ His dating system puts the calendar approximately $11 / 2$ months ahead of the seasons.
    ${ }^{107}$ His system shows the discrepancy between the two to consiri of a mere day.
    ${ }^{108}$ DEROW (1976), p. 275: "The time taken for this can of course be only approximately estimated, but by the time he [Hannibal] moved from the resting place on the Adriatic something like forty days must have elapsed since the battle (a week or so in Etruria, the ten days for the march, and some three weeks, surely a minimum, for the army to spend recuperating). For the ensuing peregrinations it seems not unreasonable to allow another forty days, or perhaps slightly longer."
    ${ }^{109}$ Brind'AMOUR (1983), p. 162.

[^104]:     $\pi \lambda \dot{\eta} \theta 0 \varsigma$ (these advantages of the Romans lay in inextr*- - supplies of provisions and men). Note also $3,90.2$, where Fabius and his men have a F - store of provisions ( $\tau \dot{\alpha} \varsigma$ रopmías $\dot{\alpha} \phi \theta$ óvous) and so have no need to forage, unlike Hannibal's men.
    ${ }^{111} C_{S}^{r} \cdot \mathrm{p} .110, \mathrm{n} .32$.
    
    
    
    
     from his scouts that there was plenty of corn in the country round Luceria and Gerunium, and that the best place for collecting supplies was Gerunium, decided to winter there and advanced to this district, marching past Mount Libyrnus).

[^105]:    ${ }^{113}$ LIVY, 22,15.1-2.
    ${ }^{114}$ Livy, 22,16.4: Poenus inter Formiana saxa ac Literni arenas stagnaque et per horridas silvas hibernaturus esset (the Phoenicians faced the prospect of passing the winter between the cliffs of Formiae and the sands and marshes of Liternum, and amid tangled forests).

[^106]:    ${ }^{115}$ LIVY, 22,7.14: senatum praetores per dies aliquot ab orto usque ad occidentern solem in curia retinent, consultantes quonam duce aut quibus copiis resisti victoribus Poenis posset (for some days the praetors kept the Senate in session in the Curia, from sunrise to sunset, deliberating with what possible commander or what forces they could withstand the victorious Phoenicians).
    ${ }^{116}$ Livy, 22,8.1: quattuor milia equitum cum C. Centenio propraetore missa ad collegam ab Servilio consule in Umbria, quo post pugnam ad Trasumennum auditam averterant iter, ad Hannibale circumventa (four thousand horse under the propraetor Caius Centenius had been sent by the consul Servilius to join his colleague; but or hearing of the battle at Trasimene they had turned aside into Umbria, and had there fallen ints the hands of Hannibal).
    ${ }^{117}$ Livy, 22,8.5-6: et quia et consul aberat, a quo uno dici posse videbatur, nec per occupatam armis Punicis Italiam facile erat aut nuntium aut litteras mitti, quod nunquam ante eam diem factum erat, dictatorem populus creavit $Q$. Fabium Maximum (and because the consul, who alone was supposed to possess the power to nominate one, was absent, and because it was no easy matter, when Italy was beset with Punic arms, to get a courier or a letter through to him, they did what had never been done before until that day, the people created Quintus Fabius Maximus as dictator).

[^107]:    
     ${ }_{\epsilon} \rho \omega \tau \alpha \mu \mu \nu \alpha \rho \chi i \alpha \varsigma \dot{\epsilon} \kappa \kappa \nu \lambda \iota \sigma \theta \hat{\eta}$ (the office of dictator extended for a period of not more than six months, in order that no such official by lingering on in the nidst of so great power and unhampered authority should become haughty and be carried away by a passion for sole leadership).
    ${ }^{119}$ See, for example, AbBotr (1963), p. 183.

[^108]:    ${ }^{120}$ LIVY, 22,31.7.
    ${ }^{122}$ Brind'Amour (1983), p. 162.
    ${ }^{122}$ Polybius, 3,106.1.
    
     encamped opposite each other).

[^109]:    ${ }^{124}$ LIVY, 22,43.5: movere inde statuit in calidiora atque eo maturiora messibus Apuliae loca (to move from his present quarters to Apulia, where the climate was warmer and in consequence for this the harvest earlier).
    ${ }^{125}$ BRIND'AMOUR (1983), p. 163.
    ${ }^{126}$ Polybius, 3,107.1.

[^110]:    
     $\chi \rho \in i \alpha \nu \dot{\epsilon} \pi \grave{\imath} \tau \grave{\partial} \sigma \tau \rho \alpha \tau о \pi \epsilon \delta \alpha \nu \pi \alpha \rho \alpha к о \mu i \xi \epsilon \sigma \theta \alpha \iota$ ([Cannae] in which the Romans had collected the corn and other supplies from the country round Canusium, conveying hence to their camp periodically enough to supply their wants).
    ${ }^{128}$ See above, n. 24.
    ${ }^{129}$ LIVY, 23,32.14.
    ${ }^{130}$ inter al. Derow (1976), pp. 278-9; CORNelius (1932), pp. 2-9.

[^111]:    ${ }^{132}$ Livy, 25,12.1: Romae consules praetoresque usque ad ante diem quintum kal. Maias Latinae tenuerunt. eo die perpetrato sacro in monte in suas quisque provincias proficiscuntur (at Rome the consuls and praetors were detained by the Latin festival until the fifth day before the Kalends of May. After performing the rites on that day on the Mount, each set out for his assignment).
    ${ }^{132}$ Livy, 25,13.1-5.
    ${ }^{133}$ LIVY, 25,15.18.

[^112]:     $\grave{\eta} \nu \quad \tau \hat{\eta} \varsigma$ ח $\lambda \epsilon \epsilon \alpha \dot{\alpha} \delta o \varsigma ~ \delta \dot{v o c \nu}$ (as it was now close on the setting of the Pleiades snow had alreaciy' gathered on the summit).

    Livy, 21,35.6: fessis taedio tot malorum nivis etiam casus occidente iam sidere Vergiliarum ingentem terrorem adiecit (exhausted and discouraged as the soldiers were by many hardships, a snow-storm - for the constellation of the Pleiades was now setting - threw them into great fear).

[^113]:    ${ }^{135}$ These fifteen days are themselves cause for contention. Walbank (1957) breaks down Hannibal's movements from his leaving of the Isère (called by Polybius simply $\pi о \tau \alpha \mu o ́ s)$. "This calculation allows three days more than the fifteen of 56.3 , two more if Harnibal reached the plain on day 17, one more if the two days on the summit include that on which Hannibal arrived." (p. 392) The Livian account adds up to eighteen days, though he too declared quinto decimo die Alpibus superatis. This one incident and the descriptions relating to it are indicative of the problems facing anyone trying seriously to date events with any accuracy, even for a period where there is a relative abundance of good source material.
    ${ }^{136}$ Walbank (1957), p. 390.
    ${ }^{137}$ ibid.
    ${ }^{138}$ LIVY, 21,35.11: ceterum iter multo qh:s in ascensu fuerat, ut pleraque Alpium ab Italia sicut breviora ita arrectiora sunt, difficiliss fict (but the way was much more difficult than the ascent had been, as indeed the slope of the Alps on the Italian side is in general more precipitous in proportion as it is shorrer).

[^114]:    ${ }^{139}$ LIVY, 21,35-37.
    ${ }^{140}$ LIVY, 21,45-46; POLYBIUS, 3,65.
    ${ }^{141}$ LIVY, 21,52-56; POLYBIUS, 3,70-75.

[^115]:    ${ }^{142}$ Acta Triumphorum Capitolina, 21: P. Cornelius L. f. Ti. n. Lentulus Caudinus cos. de Ligurib. idib. Inter[kalar].

    Acta Triumphorum Capitolina, 20: C. Duilius M. f. M. n. cos. primus navalem de Sicul(is) et classe Poenica egit k. Interkalar.
    ${ }^{143}$ Livy, 21,52.1: iam ambo consules et quidquid Romanarum virium erat Hannibali oppositum aut illis copiis defendi posse Romanum imperium aut spem nullum aliam esse satis declarabat (now that both the consuls and all the forces which the Romans could muster were opposing Hannibal, it was obvious enough either that the troops there under arms were able to defend Rome's empire or that her case was hopeless).

[^116]:    ${ }^{144}$ LIVY, 21,53.6.

[^117]:    ${ }^{145}$ Derow (1976), p. 280.
    ${ }^{146}$ Livy, 27,37.1, 4.
    ${ }^{147}$ Livy, 27,37.4.
    ${ }^{148}$ Livy, 27,37.5-6.
    ${ }^{149}$ LIVY, 27,37.11-15.

[^118]:    ${ }^{150}$ LIVY, 27,38.3-5.
    ${ }^{151}$ LIVY, 27,39.3: hae litterae consules raptim confecto dilectu maturius quam constituerant exire in provincias coegerunt ea mente (this letter constrained the consuls to complete the levy in haste and to leave for their provinces earlier than they had planned).
    ${ }^{152}$ Nichols (1978), p. 41.
    ${ }^{153}$ Livy, 27,39.2: ...et iam Alpes transire.

[^119]:    ${ }^{154}$ LIVY, 28,11.11.
    ${ }^{155}$ Livy, 27,33.6.
    ${ }^{156}$ LIVY, 27,33.9.

[^120]:    ' Ogilvie (1965), p. 1.
    ${ }^{2} 1,5.56$.
    ${ }^{3}$ It has been suggested that this comment of Pollio is heavily reliant upon Greek models for understanding, and that he was hinting that Livy's work lacked urbanitas and Latinitas. For further on this topic, see K. Latte (1940) and E. S. Ramage (1973), pp. 109-110. This may also be a jibe at his inherent religiosity (see below).
    ${ }^{4}$ PLINy THE Younger, Ep. 1,14.6: habet aviam maternam Serranam Proculam e municipio Patavio. nosti loci mores: Serrana tamen Patavinis quoque severitatis examplum est

[^121]:    ${ }^{8}$ Suetonius, Claudius 41.1.
    ${ }^{9}$ Livy, 4, 20.5-11.
    ${ }^{10}$ LIVY, 1,49.6-7: praecipue its patrum numero imminuto statuit nullos in patres legere, quo contemptior paucitate ipsa ordo esset, minusque per se nihil agi indignarentur. his enim regum primus traditum a prioribus morem de omnibus senatum consulendi solvit, domesticis consiliis rem publicam administravit; bellum, pacem, foedera, societates per si ipse, cum quibus voluit, iniussu populi ac senatus, fecit diremitque (it was chiefly the senators whose numbers were reduced by this procedure, and Tarquinius determined to make no new appointments to the order, that it might be the more despised for its very paucity, and might chafe less at being ignored in all business of state. For this king was the first to break with the custom handed down by his predecessors, of consulting the senate on all occasions, and governed the nation without other advice than that of his own household. War, peace, treaties, and alliances were entered upon or broken off by the monarch himself, with whatever states he wished, and without the decree of people or senate).
    ${ }^{13}$ Dio, 52,42.1-3.
    ${ }^{12}$ Tacirus, Annals 4.34: eloquentiae ac fides praestarus in primis (distinguished to an outstanding degree of his eloquence and respect for truth).

[^122]:    ${ }^{13}$ Compare Ogllvie (1965), pp. 403 and 415.
    ${ }^{14}$ For a list of the passages concerned see Ogilvie (1965), p. 2.
    ${ }^{15}$ WALSH (1958), p. 87.

[^123]:    ${ }^{16}$ Note, in this comexion, Livy's view $(32,34.3)$ that kings should be above facetiousness and refrain from jesting.
    ${ }^{17}$ Polybius, 18,6.1 and Livy, 32,34.4; Polybius, 18,6.4 and Livy, 32,34.10.
    ${ }^{18}$ Piso (ap. Gellius, 7,9) and Livy, 9,46.9.
    ${ }^{19}$ Four of the listed character flaws are said by Levick (1982), p. 53, to have been ascribed by ancient authors as the cause of the decline of Rome in the last century of the Republic.
    ${ }^{20}$ SACKS (1981), p. 5, in his discussion of the motivations behind ancient historians includes this point when he writes, "[the historian] may be more interested in selecting and organizing the material in such a way as to prove a point or teach a lesson to the reader rather than tell a simple story." Livy himself promotes such a view in his preface: hoc illud est praecipue in cognitione rerum salubre ac frugiferum, omnis te exempli documenta in inlustra posita monumento intueri; inde tibi tuaeque rei publicae quod imitere capias, inde foedum inceptu, foedum exitu, quod vites (what chiefly makes the study of history wholesome and

[^124]:    profitable is this, that you behold the lessons of every kind of experience set forth as on a conspicuous monument; from these you may choose for yourself and for your own state what to imitate, from these mark for avoidance what is shameful in the conception and shameful in the result).
    ${ }^{21}$ LIVY, 39,51.9-11.

[^125]:    ${ }^{22}$ Jimenez Delgado (1961), p. 37.
    ${ }^{23}$ A clear example of the manner by which religion and the ascription to a religious way of life was able to transform a dissolute and irresponsible individual into a confident and useful member of society is presented at Livy, 27,8.5-6: ob adulescentiam neglegentem luxuriosamque C. Flaccus flamen captus a P. Licinio pontifice maximo erat, L. Flacco fratri germano cognatisque aliis ob eadem vitia invisus. is ut animum eius cura sacrorum et caerimoniarum cepit, ita repente exuit antiquos mores ut nemo tota iuventute haberetur prior nec probatior primoribus patrum, suis pariter alienisque, esset (because of his irresponsible and dissipated youth Caius Flaccus, who was odious to his own brother, Lucius Flaccus, and other relatives on account of the same vices, had been seized upon as flamen by Publius Licinius, pontifex maximus. As soon as the charge of rites and ceremonies took possession of his mind, Caius so suddenly put off his old character that no one among all the young men stood higher in the estimation and approval of the leading senators, both of his own family and of strangers alike).
    ${ }^{24}$ Augustus, Res Gestae 20.4: duo et octoginta templa deum in urbe consul sex(tum ex decreto) | senatus reféci, nullo praetermisso quod e(0) temp(ore refici debebat)| (in my sixth consulship, in accordance with a decrees of the Senate, I rebuilt in the city cighty-two temples of the gods, omitting none which at that time stood in need of repair). Prior to this declaration,

[^126]:    at 19, Augustus claimed to have built several temples, such as the temple of Apollo on the Palatine, but several menioned were only restorations of earlier temples. Nonetheless, this building and restoration appears to have been important to Augustus.
    ${ }^{25}$ See Galiñsky (1996), pp. 289-90.

[^127]:    ${ }^{26}$ The prodigies recorded by Suetonius concern the princeps or the Imperial family. With the advent of the Empire and the assumption by the princeps of the role of Pontifex Maximus, these prodigies came to have a different relevance and expiation than formally. Emperor worship had come to the forefront and the practice of recording and treating State prodigia fell into desuetude. It was only under Claudius that the religion and customs of the republic, such as the consultation of the haruspices, were ephemeraliy resurrected, but unfortunately this phase lasted only as long as his reign.
    ${ }^{27}$ The mysterious sounds of 56 BCE around which Cicero's de haruspicum responsis revolves are a striking case in point.
    ${ }^{28}$ GALINSKY (1996), pp. 293-4.
    ${ }^{29}$ Levene (1993); Walsh (1961).

[^128]:    ${ }^{30}$ Levene (1993), p. 20.

[^129]:    ${ }^{36}$ The sense of ieiunius is put beyond doubt by the overall context of Cicero's description.

[^130]:    ${ }^{32}$ The extract derives from the Danielis version of Servius' commentary. Servius derived his information from an earlier commentary on Vergil compiled by Aelius Donatus in the fourth century CE .
    ${ }^{33}$ Consensus is that Gellius' work was published close to 180 CE .

[^131]:    ${ }^{34}$ A list of all those who have expounded on these subjects would be very long indeed. The mention of a mere handful will be enough to illustrate the point.

    At what time of the year were the annals written? Whereas Verbrugghe (1989), p. 213, claims that the Pontifex Maximus would, as a religious authority, have used the religious year (beginning on first January) for the starting point for the yearly chronicle, Frier (1979), p. 88, earlier proposed that each tablet was headed with the names of the consuls, which is more plausible as prodigies were treated within the context of the consular and not the religious year.

    On what material were they written? Both Crake (1940) and Frier (1979) are of the opinion that the tabulae dealbatae, the tablets on which the chronicles were initially written prior to transference into the Annales Maximi, were made of wood, but this is strongly refuted by BUCHER (1987 [1995]), p. 38 who claims that "we ought, I think. to envision the pontifical chronicle as a gigantic, poorly formatted, difficult to read, inscription on bronze, probably

[^132]:    consisting of several individual bronze tabulae incised by a variety of hands."
    Did they survive the sacking of Rome by the Gauls in 387 BCE? According to Roberts (1918), Westrup (1969), and others, the answer is no. For Frank (1924), it is a possibility. Walsh (1970), p. 111, proclaims proudly that "it is now generally accepted that the state archives were not totally destroyed by the Gallic sack in 390.1

    Frier (1979), Soltau (1896), Westrup (1969) and Fraccaro (1957), all assume that there was an earlier redaction of the tabulae dealbatae prior to the formation of the Annales Maximi. Scathingly condemnatory of this idea, JACOBY (1949), p. 283, n. 64, claims that, "in my opinion it replaced clear evidence by fantasies, is completely unsound in the argumentation, and judges the relations between the pre-literary annual records and those of the literary annalists with prejudice and wrongly."
    ${ }^{35}$ This will be the significance of the description of the board at Dionysius of Halicarnassus, Ant. Rom. 1,74.3 as the 'one and only' ( $\pi i \nu \alpha к о \varsigma ~ t ̀ o ̀ ̧ ~ к \alpha i ~ \mu o ́ v o v) . ~$
    ${ }^{36}$ see Broughton (1951), pp. 477 and 492.
    ${ }^{37}$ See Cicero, pro domo 53,136.
    ${ }^{38}$ See Broughton (1951), p. 499.

[^133]:    ${ }^{39}$ See Broughton (1951), p. 534.
    ${ }^{40}$ Ingrained habit and a belief in the value - both religious and social - of the record probably prompted the pontifices to continue their work even after the initial compilation of the Annales. These, being important to the Romans, had to have been continued in some format or other because, as AlFONSI (1971), p. 119, says, "gli Annales Maximi erano una cronaca cittadini con il dichiarato impegno di espore e tramandare tutti i fatti (cuius sei memoriaeque publicae retinendae causa!), soncita dalla piú alta autorità religiosa: una specie di Historia sacra dunque, anche se riguardava contemporanee realtà umane, e ad uso dei cives Romani."
    ${ }^{41}$ See Cicero, ad Atticum 4,13.2 and ad Fam. 1,9.23.
    ${ }^{42}$ See Nepos, Cato 3,3.
    ${ }^{43}$ See above, pp. 34.

[^134]:    ${ }^{44}$ As noted below (see n. 45), there has been some conjecture that the Annales Maximi were not the source of the prodigy lists, but, as WoOD (1981), p. 44, observes, "to conclude that the extant prodigy reports do not faithfully reflect their primary source the Annales Maximi], or that they do not come directly from it, is in effect to deny that there is any good evidence at all that prodigies were routinely recorded in the pontiff's chronicle."
    ${ }^{45}$ Elizabeth Rawson's attempt (1971) to insinuate to the contrary has been adequately rebutted by, for example, Eva Ruoff-Väänänen (1972) and John Briscoe (1973). In particular and without sufficient evidence to support her, Rawson seeks to prove the existence of special collections that were compiled by those who had a particular interest in doing so. Her claim is largely based on the number of mule and horse deformities reported from Reate, but as this was a famous breeding-ground with consequently a high density of such animals, there is a great probability of an equally high frequency of deformities, particularly if the gene pool were not constantly being added to by horses and donkeys from other regions. Inbreeding encourages genetic defects. As the breeding-ground provided the livelihood for the people of Reate, deformities would be sure to be noticed and reported for expiation in order to placate the gods and stop, or at least lessen, the incidents. In this case, there would be no need for special collections to be compiled, for each occurrence to be carefully sought out and recorded. Necessity and belief would dictate that these be reported to Rome for expiation as they occurred, or at least in the same year. Moreover, the agriculturalist Varro, himself a native of Reate, makes no mention at all of deformities in the principle export of the city, and surely such could be expected if special collections had been made and were available for consultation, both as it was his home town and as he dilated at length on agricultural matters.

[^135]:    ${ }^{46}$ For an indepth examination of the material used by Livy, see Crake (1939).
    ${ }^{47}$ See 28,11.1: in civitate tanto discrimine belli sollicita cum omnium secundorum adversorumqe causas in deos verteret, multa prodigia nuntiabantur (in the State disturbed by such a crisis-point in the war, when they were attributing the causes of all that went right and wrong to the gods, prodigies were being announced).
    ${ }^{48}$ See 21,62.1: Romae aut circa urbem multa ea hieme [C218] prodigia facta aut, quod evenire solet motis semel in religionem animis, multa nuntiata et temere credita sunt (at Rome or around the city, many prodigies occurred that winter, or as usually happens when men's thoughts are once turned to religion, many were reported and too easily credited).

[^136]:    ${ }^{49}$ The generally accepted view has been that Livy's prodigy reports were primarily culled from the work of Valerius Antias, certainly at least for the third decade. It is pretty much taken on trust, as LuTERbaCHER (1880), p.44, notes, "dass Valerius Antias Hauptquelle des Livius für die Prodigienverzeichnisse sei, obwol über Prodigienangaben bei Valerius so gut wie nichts bekannt ist."

[^137]:    ${ }^{50}$ See 22,1.13: inde minoribus dictu prodigiis fides habita: capras lanatas quisbusdam factas, et gallinam in marem, gallum in feminam sese vertisse (and then trust was placed even in prodigies more trivial for telling: some people's goats had been made woolly, and a hen had changed into a cock and a cock into a hen). Livy relates the trivia nonetheless.

[^138]:    'SKIDMORE (1996), p. 115.

[^139]:    ${ }^{1}$ See. for example, N.H. 35,51 and 37,50.
    ${ }^{2}$ Beagon (1992), p. 3.

[^140]:    ${ }^{3}$ Pliny the Younger, Ep. 3,5.5.
    ${ }^{4}$ N.H., Praef. 19.
    ${ }^{5}$ Ep. 3.5.16.

[^141]:    ${ }^{6}$ LLOYD (1983), p. 135.

[^142]:    ${ }^{7}$ Praef. 21-22.

[^143]:    ${ }^{1}$ Dio 73,4.2.

[^144]:    ${ }^{2}$ Dio 72,36.4.
    ${ }^{3}$ Dio, 73,18.3.
    ${ }^{4}$ CARY (1970), p. xv.

