

BABYLONIAN CHRONOLOGY

626 B.C.—A.D. 75

BY RICHARD A. PARKER
AND WALDO H. DUBBERSTEIN

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PREFACE

THIS study aims at providing a brief, but complete and thorough, presentation of the data bearing upon the chronological problems of the Neo-Babylonian, Achaemenid Persian, and Seleucid periods, together with tables for the easy translation of dates from the Babylonian calendar into the Julian.

Recent additions to our knowledge of intercalary months in the Neo-Babylonian and Persian periods have enabled us to improve upon the results of our predecessors in this field, though our great debt to F. X. Kugler and D. Sidorsky for providing the background of our work is obvious.

While our tables are intended primarily for historians, both classical and oriental, biblical students also should find them useful, as any biblical date of this period given in the Babylonian calendar can be translated by our tables.

Earlier editions of this work, under a slightly different title (*Babylonian Chronology 626 B.C.—A.D. 45*) appeared in 1942 and 1946 as No. 24 in the series *Studies in Ancient Oriental Civilization* of the Oriental Institute of the University of Chicago. We wish to express our gratitude to the University of Chicago Press and to Professor Carl Kraeling, Director of the Oriental Institute, for their graciousness in permitting us to bring out this fully revised edition in the series published by Brown University, of whose faculty one of us is presently a member.

The principal changes in the present volume are the incorporation of numerous newly discovered intercalary months, the extension of the tables to A.D. 75 and the substitution of completely calculated dates in the tables. The latter are in the main the work of the late Father Johann Schaumberger, who most kindly made them available to us. We cannot be too appreciative of the long hours of patient calculation by Father Schaumberger, and it is our regret that he will not see the result of his work.

It is a pleasure for us to be able to express again our profound thanks to those colleagues of ours who assisted us so materially in the earlier editions, notably Professor F. W. Geers and Dr. R. T. Hallock of the Oriental Institute, Professor G. G. Cameron of the University of Michigan, and Professor Albrecht Goetze of Yale University. Professor Otto Neugebauer of Brown University has helped both in the past and the present with his ever cogent advice and criticism.

Besides the work of Father Schaumberger, this present edition owes much to Professor A. J. Sachs of Brown University. His work among the tablets in the BM has resulted not only in the discovery of the Seleucid king list but

also in many new intercalary months. For his generous permission to utilize to the full his unpublished material we are extremely grateful.

Fourteen years ago when we first dedicated our small study it was to the friend and master who was still in the full tide of vigorous scholarship. Three years later came his untimely death, but his influence lives on no less in his books than in the many students he infected with his own zeal and high standards in historical research; and it is with full consciousness of our own unending debt for a true grounding in the historian's task that we dedicate this new edition to the memory of Albert Ten Eyck Olmstead.

RICHARD A. PARKER
WALDO H. DUBBERSTEIN

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purchase of the schooner "Albatross"
for the U.S. Fish Commission

for the purchase of the schooner "Albatross"
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LIST OF ABBREVIATIONS

- A** Chicago. University. Oriental Institute Museum. Asiatic collection. (Followed by registration number.)
- AJSL** American journal of Semitic languages and literatures (Chicago etc., 1884-1941).
- Assurbanipal** STRECK, MAXIMILIAN. Assurbanipal und die letzten assyrischen Könige bis zum Untergange Nineveh's ("Vorderasiatische Bibliothek" VII [3 vols.; Leipzig, 1916]).
- BE** Pennsylvania. University. The Babylonian expedition of the University of Pennsylvania. Series A: Cuneiform texts, ed. by H. V. HILPRECHT (Philadelphia, 1893-1914).
- BE VIII 1** CLAY, ALBERT T. Legal and commercial transactions dated in the Assyrian, Neo-Babylonian and Persian periods (1908).
- BE IX** HILPRECHT, H. V., and CLAY, ALBERT T. Business documents of Murashû sons of Nippur dated in the reign of Artaxerxes I (1898).
- BE X** CLAY, ALBERT T. Business documents of Murashû sons of Nippur dated in the reign of Darius II (1904).
- BHT** SMITH, SIDNEY. Babylonian historical texts relating to the capture and downfall of Babylon (London, 1924).
- BM** British Museum.
- BRLM** Babylonian records in the library of J. Pierpont Morgan, ed. by ALBERT T. CLAY (New York, 1912—).
- BRLM I** CLAY, ALBERT T. Babylonian business transactions of the first millennium B.C. (1912).
- BRLM II** CLAY, ALBERT T. Legal documents from Erech dated in the Seleucid era (1913).
- BRVU** KRÜCKMANN, OLUF. Babylonische Rechts- und Verwaltungs-Urkunden aus der Zeit Alexanders und der Diadochen (Weimar, 1931).
- Cambyses** STRASSMAIER, J. N. Inschriften von Cambyses, König von Babylon ("Babylonische Texte" [V] Heft 8-9 [Leipzig, 1890]).
- CT** British Museum. Cuneiform texts from Babylonian tablets, &c., in the British Museum (London, 1896—).
- Cyrus** STRASSMAIER, J. N. Inschriften von Cyrus, König von Babylon ("Babylonische Texte" [IV] Heft 7 [Leipzig, 1890]).
- Darius** STRASSMAIER, J. N. Inschriften von Darius, König von Babylon ("Babylonische Texte" [VI] Heft 10-12 [Leipzig, 1897]).
- ECAB** SIDERSKY, DAVID. Étude sur la chronologie assyro-babylonienne (Paris, 1916).
- GCCI** Goucher College, *Baltimore*. Goucher College cuneiform inscriptions (New Haven, 1923—).
- GCCI I** DOUGHERTY, R. P. Archives from Erech, time of Nebuchadrezzar and Nabonidus (1923).

- GCCI II* DOUGHERTY, R. P. Archives from Erech, Neo-Babylonian and Persian periods (1933).
- JCS* Journal of cuneiform studies (New Haven, 1947—).
- JNES* Journal of Near Eastern studies (Chicago, 1942—).
- LBART* Late Babylonian astronomical and related texts. Copied by T. G. PINCHES and J. N. STRASSMAIER. Prepared for publication by A. J. SACHS with the co-operation of J. SCHAUMBERGER (Brown University Studies, Vol. 18, 1955).
- LCE* KEISER, C. E. Letters and contracts from Erech written in the Neo-Babylonian period ("Babylonian inscriptions in the collection of James B. Nies" I [New Haven, 1918]).
- MLC* Morgan Library Collection (at Yale).
- Nabonidus* STRASSMAIER, J. N. Inschriften von Nabonidus, König von Babylon ("Babylonische Texte" [I, Heft 1-4] [Leipzig, 1889]).
- Nabuchodonosor* STRASSMAIER, J. N. Inschriften von Nabuchodonosor, König von Babylon ("Babylonische Texte" [II, Heft 5-6] [Leipzig, 1889]).
- NBC* Nies Babylonian Collection (at Yale).
- NBD* MOORE, ELLEN W. Neo-Babylonian documents in the University of Michigan collection (Ann Arbor, 1939).
- NBLE* CLAY, ALBERT T. Neo-Babylonian letters from Erech ("Yale oriental series. Babylonian texts" III [New Haven, 1919]).
- NBRU* POHL, ALFRED. Neubabylonische Rechtsurkunden aus den Berliner Staatlichen Museen ("Analecta Orientalia" VIII-IX [Roma, 1933-34]).
- NBRVT* KRÜCKMANN, OLUF. Neubabylonische Rechts- und Verwaltungstexte ("Texte und Materialien der Frau Professor Hilprecht Collection of Babylonian Antiquities im Eigentum der Universität Jena" II/III [Leipzig, 1933]).
- NCBT* Newell Collection of Babylonian Tablets (at Yale).
- PBS* Pennsylvania. University. University Museum. Publications of the Babylonian section (Philadelphia, 1911—).
- PBS II 1* CLAY, ALBERT T. Business documents of Murashû sons of Nippur dated in the reign of Darius II (1912).
- PSBA* Society of Biblical Archaeology, *London*. Proceedings (London, 1878/79-1918).
- PTT* CAMERON, GEORGE G. Persepolis treasury tablets ("Oriental Institute Publications" LXV [Chicago, 1948]).
- RA* Revue d'assyriologie et d'archéologie orientale (Paris, 1884—).
- RECC* TREMAYNE, ARCH. Records from Erech, time of Cyrus and Cambyses ("Yale oriental series. Babylonian texts" VII [1925]).
- REN* DOUGHERTY, R. P. Records from Erech, time of Nabonidus ("Yale oriental series. Babylonian texts" VI [1920]).
- SSB* KUGLER, FRANZ X. Sternkunde und Sterndienst in Babel (2 vols. and 3 supplements; Münster, 1907-35).
- TCL* Paris. Musée national du Louvre. Textes cunéiformes (Paris, 1910—).

- TCL IX* CONTENAU, GEORGES. Contrats et lettres d'Assyrie et de Babylonie (1926).
- TCL XII-XIII* CONTENAU, GEORGES. Contrats néo-babyloniens. I-II (1927-29).
- UCP* California. University. Publications in Semitic philology (Berkeley, 1907—).
- UCP IX 1* LUTZ, H. F. Neo-Babylonian administrative documents from Erech (1927).
- UET IV* Ur excavations, texts IV. H. H. FIGULLA, Business documents of the New-Babylonian period (1949). (Publications of the joint expedition of the British Museum and of the University Museum, University of Pennsylvania, Philadelphia, to Mesopotamia.)
- YBC* Yale Babylonian Collection.
- VAS* Berlin. Königliche Museen. Vorderasiatische Abteilung. Vorderasiatische Schriftdenkmäler (Leipzig, 1907-17).
- ZA* Zeitschrift für Assyriologie und verwandte Gebiete (Leipzig, 1886—).

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I

THE BABYLONIAN CALENDAR

IN the period covered by this study the Babylonian calendar year was composed of lunar months, which began when the thin crescent of the new moon was first visible in the sky at sunset. Since the lunar year was about eleven days shorter than the solar year, it was necessary at intervals to intercalate a thirteenth month, either a second Ululu (the sixth month) or a second Addaru (the twelfth month) in order that New Year's Day, Nisanu 1, should not fall much before the spring of the year (late March and early April).

It may have been in the reign of Nabonassar, 747 B.C., that Babylonian astronomers began to recognize, as the result of centuries of observation of the heavens, that 235 lunar months have almost exactly the same number of days as nineteen solar years. This meant that seven lunar months must be intercalated over each nineteen-year period.¹

The specific years in which the intercalations were to be made, however, and whether they should be second Addarus or second Ululus remained to be determined empirically—a process which lasted some centuries. This fact is evident not only from an inspection of the series of attested intercalary months, as shown in Plate I, but from three interesting letters: Clay, *NBLE*, Nos. 15, 115, and 196.

No. 115 is a royal command to Kurbanni-Marduk, an official at the temple of Eanna in Uruk, stating that there would be an intercalated Addaru in the current year 15. The name Kurbanni-Marduk and year 15 make it certain that this order was sent out by Nabunaid during his 15th year. We may assume that the same royal command went out to other temples throughout Babylonia.

No. 15 is another letter sent to administrative officials at the temple of Eanna in Uruk, this time by the officials (*qīpāni*) of Esagila, the great temple in Babylon. This letter states merely that "the month is intercalary." The Eanna official Nabu-ah-iddina functioned according to known texts from the accession year of Cyrus to the 4th year of Cambyses. We cannot fix the date

¹ Against recognition of nineteen-year cycles at that time see Kugler, *SSB* II 362–71 and 422–30. We have followed Sidersky (*ECAB*, p. 38) in taking 747 B.C. as a convenient starting-point for our scheme in Plate I, but that is not to be interpreted as acceptance of that date as the point at which Babylonian astronomers consciously recognized the principle that seven intercalations were regularly needed in each nineteen years.

of this letter more closely. It is highly interesting because it implies that in this particular case the order for the intercalary month was not sent out until presumably in the 6th or 12th month itself, the statement implying that the present Ululu or Addaru was to be followed by an intercalated Ululu or Addaru. Note also that the order was sent out not by the king, as was the previous letter, but by priestly officials at Babylon.

The third letter, No. 196, came from Zerija, probably a priestly official at Babylon, to the same Nabu-ah-iddina and to his colleague Kina at the Uruk temple of Eanna, informing them that the month Ululu was to be intercalary. Possible dates for this letter are year 2 or 9 of Cyrus or year 3 of Cambyses.

The three letters together give the impression that orders for intercalary months were issued by the king in Chaldean Babylonia, then by the priestly officials at Babylon after Persia took over. We do not wish to stress this point. The orders transmitted to the temple officials at Uruk look very much like "form letters," and it seems reasonably certain that they were sent to temple officials throughout Babylonia. These letters also make it clear that no established system which fixed the seven intercalations at definite points within the nineteen-year period existed at the beginning of the Persian period. Letter No. 15 implies that intercalary orders were even issued within a few weeks of the beginning of an intercalary month.

In the fourth century—in 367 B.C. according to our scheme but possibly as early as 383 B.C.—the intercalations became standardized, and the nineteen-year cycle thus came into being.² Before 367 B.C. numerous intercalary months are known from contemporary documents. Once they have been placed in a framework of nineteen-year periods, it becomes possible to reconstruct the probable calendar. Pioneer work in collecting and tabulating intercalary months was done by Kugler and Sidersky.³ Recently discovered months permit an advance on their results, so that, by a judicious use of the known, the unknown can be approximated with a varying degree of probability from 626 to 367 B.C. The result may be seen in Plate I, where the capital letters *U* and *A* represent attested intercalary Ululus and Addarus respectively, the small letters unattested but probable ones. Reconstruction before 626 is much too hazardous at present and must await further additions to our knowledge.

Study of Plate I will reveal many points of interest in the working-out of the intercalary system. In the earlier periods there is a marked preference for

² We do not know for certain in just what year the standardization began and any one of the nineteen years after 383 B.C. is a possibility. Plate I will make this clear.

³ Kugler, *SSB* II 334 f. and 411–22; Sidersky, *ECAB*, pp. 29–33; cf. also F. H. Weissbach in *Hilprecht Anniversary Volume* (1909) pp. 281–90.

second Ululus. A gradual shift from Ululus to Addarus in later periods can be seen. When an Addaru is missed for any reason, as in 538, the year after Cyrus conquered Babylon, an Ululu is often inserted in the following year to bring the calendar up to date more quickly. Especially to be noted is the shift, in Periods 9, 10, and 15 ff., of the month which would have been intercalated in the first year of the period to the last year of the preceding period, with the result that Periods 8 and 14 have eight intercalations each and Period 10 but six.

The major goal toward which this experimentation was striving was apparently a system with the smallest limits of variability in the start of the year. Thus the limits for Nisanu 1 in Period 11 are April 26 in year 6 and March 22 in year 12, ranging over thirty-six days. April 26 was lowered to April 16 in Period 12 by shifting a second Addaru from year 5 to year 6. Similarly, March 22 of Period 11 and March 21 of Period 12 became April 20 in Period 13 by changing the second Ululu of year 12 to a second Addaru in year 11. Eventually the first actual cycle, Period 21, had as the limits for Nisanu 1 March 26 and April 21, involving only twenty-seven days.⁴

We have carried our tables to A.D. 75 as that is the date of the latest cuneiform tablet now known.⁵

It was stated above that observation of the crescent determined the beginning of the month. This was certainly true in the early part of the time here dealt with. It resulted now and then in a twenty-eight day month,⁶ when two months of twenty-nine days came together and bad weather conditions resulted in giving thirty days to the first month. Whether for calendrical purposes calculation of the crescent ever replaced observation remains a problem whose solution must await new evidence.

⁴ That certain astronomical considerations underlie the nineteen-year cycle has been proposed by O. Neugebauer and A. Sachs. The former has suggested that the intention of the cycle, whose beginning he would place before 450 B.C., was to keep the sun on the first day of Tashritu, month VII, always in the zodiacal sign Libra ("The 'Metonic Cycle' in Babylonian Astronomy", *Studies in Ancient Astronomy. VI. Studies and Essays in the History of Science and Learning in Honor of George Sarton* [1946] 435-48). More recently Sachs has proposed instead that it was the heliacal rising of Sirius and the desire to keep that event in month IV which controlled the cycle ("Sirius Dates in Babylonian Astronomical Texts of the Seleucid Period", *JCS* VI [1952] 105-14).

⁵ It will be published by Sachs and Schaumberger.

⁶ See R. Campbell Thompson, *The Reports of the Magicians and Astrologers of Nineveh and Babylon in the British Museum* (London, 1900) II xliii.

INTERCALARY MONTHS MENTIONED IN UNPUBLISHED
OR RECENTLY PUBLISHED TEXTS⁷

ASSUR-NADIN-SHUM

Addaru II, 3d year

Unpub. text *YBC* 7162 (Goetze, *JNES* III [1944] 43)

SHAMASH-SHUM-UKIN

Ululu II, 2d year

G. R. Driver, *Centenary Supplement to the Journal of the Royal Asiatic Society* (1924) Pl. IV/V

KANDALANU

Ululu II, 19th year

Unpub. texts *NBC* 6144, *YBC* 11476, 11300, and 11481 (Goetze, *op. cit.* p. 43, and a personal letter which corrects the published attribution of the first two texts to Kandalanu's 9th year)

NABOPOLASSAR

Addaru II, 2d year

Unpub. text *NCBT* 589 (*ibid.*)

Ululu II, 5th year

Figulla, *UET* IV 202

Addaru II, 7th year

Unpub. text *YBC* 3455 (*ibid.*, which corrects our conjectural *Ululu II* based on the damaged month name in Dougherty, *GCCI* II 74)

Ululu II, 10th year

Dougherty, *GCCI* II 50; unpub. text *NBC* 6141 (Goetze, *op. cit.* p. 43)

Addaru II, 12th year

Unpub. economic text (Sachs)

Ululu II, 15th year

Contenau, *TCL* XII 19;⁸ unpub. text *NCBT* 1175 (Goetze, *op. cit.* p. 43)

Ululu II, 19th year⁹

Unpub. text *NCBT* 1156

Addaru II, 20th year

Dougherty, *GCCI* II 16; Contenau, *TCL* XII 21: unpub. texts *YBC* 4153 and 11601 (Goetze, *op. cit.* p. 43)

NEBUCHADNEZZAR

Ululu II, 2d year

Unpub. text *NCBT* 114 (*ibid.*); eclipse text BM 38462 described *LBART* No. *1420

[*Addaru II*, 4th year]

VAS VI 265¹⁰

⁷ Italics indicate months either unknown to or not used by Kugler and Sidersky in their tables. Brackets ([]) indicate months rejected as impossible.

⁸ Add here the *Ululu II* of year 15 discussed by Kugler, *SSB* II 418 f. He assigned it to the 15th year of Nebuchadnezzar; but that is disproved by the *Addaru II* listed below for the latter's 14th year. He also suggested Nabopolassar as an alternative.

⁹ There remains some question as to whether or not this tablet is correctly placed, as the king's name is not mentioned. According to Goetze, the appearance of the tablet makes it hardly possible to assign it either to Nebuchadnezzar or to Kandalanu. The former is excluded on the basis of the known intercalary months in his 17th and 21st years, but the latter has an *Ululu II* in his 19th year, as is demonstrated above. Provisionally we accept Goetze's decision, but point out that it results in an exceptionally low date of March 6 for Nisanu 1.

¹⁰ A broken text. In lines 1 and 2 "*Addaru II* of year 4" is preserved. Kugler, *SSB* II 418, argued that on the basis of elimination this text probably belongs to Nebuchadnezzar; other possibilities were Xerxes, Artaxerxes I, or Artaxerxes II. Nebuchadnezzar is eliminated by the newly demonstrated intercalations in his 2d and 5th years

<i>Ululu II</i> , 5th year	Unpub. text <i>NCBT</i> 859 (Goetze, <i>op. cit.</i> p. 43); eclipse text BM 38462 described <i>LBART</i> No. *1420
<i>Ululu II</i> , 7th year	Lutz, <i>UCP IX</i> 1, Part II, No. 10
<i>Ululu II</i> , 9th year	Krückmann, <i>NBRVT</i> , No. 197
<i>Addaru II</i> , 11th year	Eclipse text BM 38462 described <i>LBART</i> No. *1420
<i>Addaru II</i> , 14th year	Contenau, <i>TCL XII</i> 35; Moore, <i>NBD</i> , No. 29 (date damaged); unpub. texts <i>YBC</i> 9324, 9375, 9388, and 9528 (Goetze, <i>op. cit.</i> p. 43)
<i>Addaru II</i> , 17th year	Unpub. texts <i>NBC</i> 4633, <i>NCBT</i> 853, <i>YBC</i> 8816 and 11665 (<i>ibid.</i>)
<i>Ululu II</i> , 21st year	Unpub. texts <i>YBC</i> 4110 and 8860 (<i>ibid.</i>)
<i>Addaru II</i> , 23d year	Keiser, <i>LCE</i> , No. 126; Dougherty, <i>GCCI I</i> 45
<i>Addaru II</i> , 26th year	Eclipse text BM 38462 described <i>LBART</i> No. *1420
<i>Addaru II</i> , 28th year	Lutz, <i>UCP IX</i> 1, Part I, No. 52
<i>Ululu II</i> , 31st year	Krückmann, <i>NBRVT</i> , No. 20; R. C. Thompson, <i>Catalogue of the Late Babylonian Tablets in the Bodleian Library, Oxford</i> (London, 1927) p. 3, A 91; p. 4, A 95; unpub. texts <i>NCBT</i> 775 and <i>YBC</i> 8819 (Goetze, <i>op. cit.</i> p. 43)
[<i>Ululu II</i> , 32d year] ¹¹	
<i>Addaru II</i> , 33d year	Dougherty, <i>GCCI I</i> 117 and 125
<i>Addaru II</i> , 36th year	<i>Ibid.</i> Nos. 68, 98, and probably 82 (year 30+x); II 268 (no king given, but tablet apparently belongs here; "36" and "Addaru II" are clear)
<i>Ululu II</i> , 41st year	Krückmann, <i>NBRVT</i> , Nos. 79, 153, 154; Dougherty, <i>GCCI I</i> 231 (year x+11), 248
<i>Addaru II</i> , 42d year	Dougherty, <i>GCCI I</i> 138, 155, 219, 225
NERGAL-SHAR-USUR	
<i>Addaru II</i> , acc. year	Krückmann, <i>NBRVT</i> , No. 129
<i>Addaru II</i> , 3d year	Contenau, <i>TCL XII</i> 70
NABUNAID	
<i>Addaru II</i> , 1st year	Eclipse text BM 32234 described <i>LBART</i> No. *1419

(see above), and intercalation is impossible in the 4th year of either Artaxerxes I or Artaxerxes II. Since the *Addaru II* attributed to Xerxes' 5th year in our first edition is now known to belong instead to the 5th year of Artaxerxes I (see below), the present text can fit very nicely in the 4th year of Xerxes, and we have transferred it there.

¹¹ Kugler, *SSB II* 411, uses Strassmaier, *Nabuchodonosor*, No. 249, as proof for an intercalated *Ululu* in the 32d year of Nebuchadnezzar. The text, as given by Strassmaier, is dated in lines 4 and 5 to Arahsmnu (8th month), 15th day, 32d year (the "32" is damaged slightly) of Nebuchadnezzar. Kugler's date is based on mention of an *Ululu II* at the end of the last line (line 39) unaccompanied by day, year, or king. Since lines 6, 13, 15, 31 refer to year 30 and line 37 refers to the 25th of *Addaru*, the *Ululu II* in line 39 cannot be used to prove an intercalation in year 32. This tablet is a summary, and the various dates within the text all seem to be earlier than year 32. Hence we consider the *Ululu II* to be that of year 31 (see above).

- [Addaru II, 2d year]¹²
 Addaru II, 3d year Pohl, *NBRU* II 8; Dougherty, *REN*, Nos. 13 and 46
 Addaru II, 6th year Krückmann, *NBRVT*, No. 115
 Ululu II, 10th year Dougherty, *GCCI* I 291, 305, 338, 354; *idem*, *REN*, Nos. 19, 139, 212
 Addaru II, 12th year Moore, *NBD*, No. 55; Krückmann, *NBRVT*, No. 209 (broken date read as 11th year by Krückmann, but must be read as 12th on basis of known materials); Dougherty, *REN*, Nos. 152, 165, 175, 191, 203, 206, 210, 214, 223, 230, 235; *idem*, *GCCI* II 371 (no king's name preserved on tablet, but year 12 places it here)
 Addaru II, 15th year Dougherty, *REN*, No. 224
- CYRUS
 Addaru II, 6th year¹³ Tremayne, *RECC*, No. 47 (year traces fit 6 but not 3)
- CAMBYSES
 Ululu II, acc. year Tremayne, *RECC*, No. 98; Dougherty, *GCCI* II 116, 117, 118, 218; J. B. Nies and C. E. Keiser, *Historical, Religious and Economic Texts and Antiquities* ("Babylonian Inscriptions in the Collection of James B. Nies" II [New Haven, 1920]) No. 130
 Ululu II, 3d year Tremayne, *RECC*, No. 155; Krückmann, *NBRVT*, No. 161 (broken date, read as " $x+1$ " by Krückmann, must be read as "3" on basis of known intercalated months); Contenau, *TCL* XIII 155
 Addaru II, 5th year Pohl, *NBRU* I 77
- DARIUS I
 Addaru II, acc. year Pohl, *NBRU* II 10 (Pohl's Ululu II should be corrected to read Addaru II; see A. Poebel in *AJS* LVI [1939] 134, n. 41) and 11
 Ululu II, 3d year Krückmann, *NBRVT*, No. 165
 Addaru II, 16th year Contenau, *TCL* XIII 193; unpub. text Persepolis 4303 (on all the Persepolis references under Darius I see R. T. Hallock in *JNES* I [1942] 231, n. 5)
 Ululu II, 19th year Unpub. texts Persepolis 3158 (Poebel in *AJS* LV [1938] 136 f.) and 718 (Hallock)
 Addaru II, 22d year Unpub. texts Persepolis 11424 and (slightly doubtful) 1899, 5968, and 9916 (Hallock)
 Addaru II, 24th year Unpub. texts Persepolis 5257, 9637, and 10134 (Hallock)

¹² Pohl, *NBRU* I 20, has an Addaru II in the 2d year of Nabunaid. This is impossible, since other texts place an Addaru II in the 1st and 3d years. By addition of one wedge the year may be read either as "3" or as "12"; or by omission of one wedge it may be read as "1." Error of either scribe or copyist is evident. Reading as "3" seems preferable to us.

¹³ In C. H. Gordon, *Smith College Tablets . . .* ("Smith College Studies in History" XXXVIII [Northampton, 1952]), No. 84 is dated in Addaru I.

- Addaru II, 32d year Cameron, *PTT* 2; eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424
- XERXES**
- Ululu II*, 2d year¹⁴ Cameron, *PTT* 10, 11
- Addaru II*, 4th year *VAS* VI 265¹⁵
- [*Addaru II*, 10th year] An intercalary month is proved by eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424, but not whether it is U or A
- Addaru II*, 12th year Cameron, *PTT* 27
- Addaru II*, 15th year Eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424
- Addaru II*, 18th year *Ibid.*
- Ululu II*, 21st year Eclipse text BM 32234 described *LBART* No. *1419.
- ARTAXERXES I**
- Addaru II*, 2d year Venus text *LBART* No. 1387
- Addaru II*, 5th year Cameron, *PTT* 79¹⁶; eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424; Venus text BM 32299 described *LBART* No. *1388
- Addaru II*, 10th year Eclipse texts BM 36910+36998+37036 and 37044 described *LBART* Nos. *1422–*1424 and *1425
- Addaru II*, 13th year Eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424; Venus text BM 32299 described *LBART* No. *1388
- Addaru II*, 16th year Eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424
- Addaru II*, 19th year Unpub. economic text in The Free Library of Philadelphia (Sachs, *JCS* VI [1952] 114, n. 20); supported by Aramaic papyrus Cowley 13 for which see S. H. Horn and L. H. Wood, *JNES* XIII [1954] 11–12
- Addaru II*, 21st year Eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424; Venus text BM 32299 described *LBART* No. *1388
- Addaru II*, 24th year Eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424; diary BM 33478 described *LBART* No. *162
- Addaru II*, 29th year Eclipse texts BM 36910+36998+37036 and 37044 described *LBART* Nos. *1422–*1424 and *1425
- Addaru II*, 32d year Eclipse text BM 36910+36998+37036 described *LBART* Nos. *1422–*1424
- Addaru II*, 35th year *Ibid.*
- Addaru II*, 38th year Venus text *LBART* No. 1387

¹⁴ For correction of Kugler's tentative reading of year 7 (*op. cit.* p. 413) to year 2 see Cameron in *AJS* LVIII (1941) 323, n. 40.

¹⁵ See n. 10, p. 4.

¹⁶ This text was first assigned to Xerxes by Dr. Cameron, but after further study he gives it to Artaxerxes I on the basis of content and seal impression.

- Addaru II, 40th year Eclipse text BM 36910+36998+37036 described
LBART Nos. *1422-*1424
- DARIUS II**
- Addaru II, 2d year Astronomical text BM 32209+41854, the second part of
which is published *LBART* No. 1412
- Addaru II, 5th year *Ibid.*; eclipse text BM 36910+36998+37036 described
LBART Nos. *1422-*1424; diary *VAT* 4924, see van
der Waerden, *AfO* 16 [1952-3] 220, Pl. 18
- Addaru II*, 7th year Unpub. economic text BM 47500 (Sachs); eclipse text
BM 36910+36998+37036 described *LBART* Nos.
*1422-*1424; astronomical text BM 32209+41854, the
second part of which is published *LBART* No. 1412
- Addaru II, 10th year Eclipse text BM 36910+36998+37036 described
LBART Nos. *1422-*1424; astronomical text BM
32209-41854, the second part of which is published
LBART No. 1412.
- Addaru II*, 13th year Astronomical text BM 32209+41854, the second part of
which is published *LBART* No. 1412
- Ululu II*, 16th year Eclipse text BM 36910+36998+37036 described
LBART Nos. *1422-*1424; this year is to be restored
in Figulla, *UET* IV 93 (Sachs)
- Addaru II*, 18th year Astronomical text BM 32209+41854, the second part of
which is published *LBART* No. 1412
- ARTAXERXES II**
- Addaru II*, 2d year *Ibid.*
- Addaru II*, 5th year *Ibid.*; eclipse text BM 36910+36998+37036 described
LBART Nos. *1422-*1424
- Addaru II*, 7th year Astronomical text BM 32209+41854, the second part
of which is published *LBART* No. 1412; eclipse text
LBART No. 1416
- Addaru II*, 10th year Eclipse text BM 36910+36998+37036 described
LBART Nos. *1422-*1424
- Ululu II*, 16th year *Ibid.*
- Addaru II, 24th year *Ibid.*
- Addaru II, 26th year Eclipse text *LBART* No. 1415

II KINGS' REIGNS

THE general basis for the chronology of the period here treated is furnished by the Ptolemaic Canon, with help from classical sources. Cuneiform chronicles and lists of kings have also been of considerable help in checking and improving on the general framework of chronology. The numerous cuneiform economic texts often furnish an accurate check on the lengths of reigns. Since these texts cover the larger part of the period, from 626 B.C. to the middle of the second century B.C., they are of prime importance. Dates from cuneiform astronomical texts are especially helpful for the chronology of the third and second centuries B.C.

The foundations for a study of this kind were laid by Kugler in his monumental studies *Sternkunde und Sterndienst in Babel* (1907-35) and *Von Moses bis Paulus* (1922) and by Sidersky's *Étude sur la chronologie assyro-babylonienne* (1916). For seventh-century chronology Streck's *Assurbanipal* (1916) is also essential. Important syntheses were achieved by Olmstead, "The Chaldaean dynasty," *Hebrew Union College Annual* II (1925) 29-55, and "Cuneiform texts and Hellenistic chronology," *Classical Philology* XXXII (1937) 1-14.

Recent studies which have helped to clarify Babylonian chronology are these:

André Aymard, "Du nouveau sur la chronologie des Séleucides," *Revue des Études Anciennes* LVII (1955) 102-12.

George G. Cameron, "Darius and Xerxes in Babylonia," *AJS* LVIII (1941) 314-25.

George G. Cameron, "Darius, Egypt, and the 'lands beyond the sea,'" *JNES* II (1943) 307-13.

Waldo H. Dubberstein, "The chronology of Cyrus and Cambyses," *AJS* LV (1938) 417-19.

Waldo H. Dubberstein, "Assyrian-Babylonian chronology (669-612 B.C.)," *JNES* III (1944) 38-42.

Albrecht Goetze, "Additions to Parker and Dubberstein's Babylonian chronology," *JNES* III 43-46.

Richard T. Hallock, "Darius I, the king of the Persepolis tablets," *JNES* I (1942) 230-32.

A. T. Olmstead, "Darius and his Behistun inscription," *AJS* LV 392-416.

Richard A. Parker, "Darius and his Egyptian campaign," *AJS* LVIII 373-77.

Richard A. Parker, "Persian and Egyptian chronology," *ibid.* pp. 285-301.

Arno Poebel, "Chronology of Darius' first year of reign," *AJS* LV 142-65 and 285-314.

- Arno Poebel, "The duration of the reign of Smerdis, the Magian, and the reigns of Nebuchadnezzar III and Nebuchadnezzar IV," *AJSL* LVI (1939) 121-45.
- Arno Poebel, "The names and the order of the Old Persian and Elamite months during the Achaemenian period," *AJSL* LV 130-41.
- A. J. Sachs and D. J. Wiseman, "A Babylonian king list of the Hellenistic period," *Iraq* XVI (1954) 202-12.
- D. J. Wiseman, *Chronicles of Chaldaean Kings (626-556 B.C.) in the British Museum* (London, 1956).

Although Kugler (*SSB* II 438-63), Clay (*BE* VIII 1, pp. 4-14), and others have given lists of kings and attempted to fix their reigns more exactly, most of such lists cover only parts of the entire period with which we are concerned. Moreover, the numerous economic texts published in the last forty years have made it possible to improve on their efforts in certain cases by correcting their dates, especially those preceding the fourth century B.C. For the Seleucid and Arsacid periods less improvement is possible, but we have given a full list of rulers in order that our tables may be complete.¹

NABOPOLASSAR

Evidence for End of Kandalanu's Reign

- II/6/21, Babylon (unpub. text YBC 11428, Goetze, *JNES* III [1944] 44).
- II/1/3/21, Sippar (J. Oppert in *ZA* VII [1892] 341).
- VIII/—/21, Babylon (BM 36514, D. J. Wiseman, *Chronicles of Chaldaean Kings (626-556 B.C.) in the British Museum* [London, 1956] Pl. 21).
- VIII/2/22 (Oct. 30, 626), Babylon (BM 40039, Wiseman, *op. cit.* Pl. 19 and p. 89).

The last two tablets are dated in years 21/22 "after" (*arki*; not "of") Kandalanu, from which we must now conclude that while his death took place in the interval between II/13/21 and VIII/—/21 (May to November 627 B.C.) his reign was carried artificially on to fill the interregnum up to the accession of Nabopolassar; see Wiseman, *op. cit.* 89-90.

Evidence for Beginning of Nabopolassar's Reign

- II/13 or 16 or 19/acc. (May 17 etc., 626) (unpub. text NCBT 557, Goetze, *op. cit.* p. 44).
- VI/22/acc. (Sept. 21, 626), Sippar (BM 49656, Wiseman, *op. cit.* Pl. 21 and p. 93).

The Chronicle (BM 25127, ll. 14-15, Wiseman, *op. cit.* pp. 7, 51 and 93) has Nabopolassar formally occupying the throne in Babylon on VIII/26/acc. (Nov. 23, 662). From the tablets it would appear that his authority was recognized elsewhere in the country before that date.

Evidence for End of Nabopolassar's Reign

- II/—/21, Sippar (J. Strassmaier in *ZA* IV [1889] 121 f. and 145-47, No. 19).

¹ Wherever the city is not given in this list, it is missing on the tablet also, and the source cannot be established by other data. All dates are B.C. Missing days, months, or years are indicated by means of dashes.

- II/6/21 (May 16, 605) (unpub. text YBC 4150, Goetze, *op. cit.* p. 44).
 V/1/21 (Aug. 8, 605) (Moore, *NBD*, No. 35).²
 V/1/21, KUR.A.DAN.ŠU (unpub. text, Oriental Institute A 5302).
 V/8/21 (Aug. 15, 605), death of Nabopolassar according to the Chronicle (BM 21946, l. 10, Wiseman, *op. cit.* pp. 26 and 69).

NEBUCHADNEZZAR II

Evidence for Beginning of Reign

- VI/1/acc. (Sept. 7, 605), Nebuchadnezzar ascends the throne in Babylon (Chronicle, BM 21946. ll. 10–11, Wiseman, *op. cit.* pp. 27 and 69).
 VI/12/acc. (Sept. 18, 605) (unpub. text NBC 4746, Goetze, *op. cit.* p. 44).
 VI/18/acc. (Sept. 24, 605), Sippar (unpub. text BM 49524, Wiseman, *op. cit.*, p. 85, note to l. 11).
 VII/5/acc. (Oct. 11, 605) (BM 92472 = Strassmaier, *Nabuchodonosor*, No. 2).
 A collation by Sachs and Wiseman has shown that the text from Sippar (Strassmaier, *loc. cit.*) thought to be from the 4th month is correctly to be dated VII/—/acc.

Evidence for End of Reign

- VI/14/43 (Sept. 26, 562), Uruk (Pohl, *NBRU* I 18).
 VI/21/43 (Oct. 3, 562), Uruk (unpub. text NCBT 286, Goetze, *op. cit.* p. 44).
 VI/26/43 (Oct. 8, 562), Uruk (Contenau, *TCL* XII 58).
 The first tablet dated to Amel-Marduk (see below) comes from Sippar(?) and is dated on the same day as the last tablet of Nebuchadnezzar from Uruk. Accordingly Nebuchadnezzar died during the first days of October, 562.

AMEL-MARDUK

Evidence for Beginning of Reign

- VI/26/acc. (Oct. 8, 562), Sippar? (B. T. A. Evetts, *Inscriptions of the Reigns of Evil-Merodach, Neriglissar, and Laborosoarchod* ["Babylonische Texte" [III] Heft 6 B (Leipzig, 1892)] Evil-Merodach, No. 1).
 VII/19/acc. (Oct. 31, 562), Babylon (*ibid.* No. 2).

Evidence for End of Reign

- V/13/2 (Aug. 3, 560), Babylon (unpub. text YBC 3692, Goetze, *op. cit.* p. 44).
 V/17/2 (Aug. 7, 560) (Clay, *BE* VIII 1, No. 34).
 Since the first text dated to Nergal-shar-usur was written at Babylon six days after the Clay text, the date of Amel-Marduk's death may be fixed between August 7 and August 13, 560.

NERGAL-SHAR-USUR

Evidence for Beginning of Reign

- V/23/acc. (Aug. 13, 560), [Babylon?] (*VAS* III 40)
 V/27/acc. (Aug. 17, 560), Uruk (unpub. text NBC 4584, Goetze, *op. cit.* p. 44).

Evidence for End of Reign

- I/2/4 (Apr. 12, 556), Shahrinu (Evetts, *op. cit.*, Neriglissar, Nos. 68 and 69).
 I?/6/4 (Apr. 16, 556), Uruk (unpub. text YBC 3433, Goetze, *op. cit.* p. 44).
 Nergal-shar-usur's death occurred in late April or early May, 556.

² Editor gives Babylon as place of origin, but evidence to confirm this seems lacking.

LABASHI-MARDUK

Evidence for Beginning of Reign

I/23/acc. (May 3, 556), Uruk (unpub. text *NBC* 4534, *ibid.*).

II/12/acc. (May 22, 556), Sippar? (Evetts, *op. cit.*, Laborosoarchod, No. 2).

Evidence for End of Reign

III/9/acc. (June 17, 556) (Strassmaier in *Actes du huitième Congrès international des orientalistes, tenu en 1889 à Stockholm et à Christiania*, 2. partie [Leide, 1893] section sémitique [B] at end, No. 15)

III/12/acc. (June 20, 556), Sippar? (Evetts, *op. cit.*, Laborosoarchod, No. 1).

Labashi-Marduk seems to have been recognized as king only in May and June, 556, and even then possibly not throughout Babylonia (see under NABUNAID). Berossus (frag. 14) *apud* Josephus *Against Apion* i. 20 states that Labashi-Marduk ruled nine (ἐννέα) months. If Berossus' own manuscript used a numeral instead of the spelled-out number, confusion between θ (9) and β (2) could easily have arisen; hence the original text may have said 2 months.

NABUNAID

Evidence for Beginning of Reign

II/15/acc. (May 25, 556), NA.ŠU.ŠA.KU.NA (Clay, *BE* VIII 1, No. 39).

III/1/acc. (June 9, 556), Sippar? (*VAS* VI 65; see Kugler, *SSB* II 405–8).

III/18/acc. (June 26, 556), Sippar (Strassmaier, *Nabonidus*, No. 1).

III/23/acc. (July 1, 556) Uruk (Dougherty, *REN*, No. 1).³

III/26/acc. (July 4, 556), Sippar (Strassmaier, *Nabonidus*, No. 2).

Nabunaid must have been a contender for the throne almost from the death of Nergal-shar-usur. By the end of June, 556, he was sole ruler of Babylonia.

Evidence for End of Reign

VI/3/17 to VI/28/17 (Aug. 31 to Sept. 25, 539), chiefly from Babylon and Sippar (Strassmaier, *Nabonidus*, Nos. 1046–52).

VI/6/17 (Sept. 3, 539), Uruk (Contenau, *TCL* XII 121; line 19 reads VI/6/18, but in line 1 the date is given as VI/6/17; year 18 is impossible, so we assume either a scribal error or an error by Contenau).

VI/25/17 (Sept. 22, 539) (unpub. text *MLC* 1011, Goetze, *op. cit.* p. 44).

VII/4?/17 (Sept. 30, 539), Larsa (unpub. text *YBC* 7385, *ibid.*).

VII/8/17 (Oct. 4, 539), Uruk (Dougherty, *REN*, No. 189).

VII/17/17 (Oct. 13, 539), Uruk (Dougherty, *GCCI* I 390).

The Nabunaid Chronicle (last published by Smith, *BHT*, pp. 98–123 and Pls. XI–XIV) iii 14–18 states that Sippar fell to Persian forces VII/14/17 (Oct. 10, 539), that Babylon fell VII/16/17 (Oct. 12), and that Cyrus entered Babylon VIII/3/17 (Oct. 29). This fixes the end of Nabunaid's reign and the beginning of the reign of Cyrus. Interestingly enough, the last tablet dated to Nabunaid from Uruk is dated the day after Babylon fell to Cyrus. News of its capture had not yet reached the southern city some 125 miles distant. Strassmaier, *Nabonidus*, No. 1054, has the date VIII/10/17; but the month sign is shaded, and in view of known facts this date cannot be accepted. No. 1055 is dated to

³ Goetze (*op. cit.* p. 44) doubts the correctness of the date.

IX/—/17 by Strassmaier on the basis of the giving of the *maššartum* for the IX/—/17 of Nabunaid (lines 2–4). Since a *maššartum* was often given some months in advance (see Strassmaier, *Nabonidus*, Nos. 219, 346, 361) this tablet is useless for exact dating purposes. This fact was recognized by Kugler, *SSB* II 388 f., but not by Clay, *BE* VIII 1, pp. 4 f.

CYRUS

Evidence for Beginning of Reign

VII/14/acc. (Oct. 10, 539), Sippar is taken by Persian forces.

VII/16/acc. (Oct. 12), Babylon falls.

VIII/3/acc. (Oct. 29), Cyrus enters Babylon.

These dates are from the Nabunaid Chronicle (see under NABUNAID).

VII/—/acc. (not later than Oct. 26, 539) (Strassmaier, *Cyrus*, No. 1).

VIII/24/acc. (Nov. 19, 539) (*ibid.* No. 2).

X/21/acc. (Jan. 14, 538), Uruk (Tremayne, *RECC*, No. 1).

Evidence for End of Reign

IV/7/9 (June 28, 530), Babylon (Strassmaier, *Cyrus*, No. 340).

IV/27/9 (July 18, 530), Babylon (*ibid.* No. 341).

V/13/9 (Aug. 2, 530), Nippur (Clay, *BE* VIII 1, No. 74).

V/23/9 (Aug. 12, 530), Borsippa (*VAS* V 42).

Coregency of Cyrus and Cambyses probably began Nisanu 1 (March 26), 530; see Kugler, *SSB* II 397–401, and Dubberstein in *AJS* LV (1938) 417–19. The death of Cyrus while he was fighting on the northeastern front was probably reported in Babylon in August, 530, whereupon Cambyses was recognized as sole king.

CAMBYSES

Evidence for Beginning of Reign

VI/12/acc. (Aug. 31, 530), Babylon (Strassmaier, *Cambyses*, No. 1).

VI/16/acc. (Sept. 4, 530), Babylon (*ibid.* No. 2).

VI/20/acc. (Sept. 8, 530), Babylon (*ibid.* No. 3).

Evidence for End of Reign

I/4? and 5/8 (Mar. 30? and 31, 522), Sippar (*ibid.* Nos. 407 and 408).

I/12/8 (Apr. 7, 522), Uruk (Dougherty, *GCCI* II 106).

I/10+x/8 (Apr. 5+x, 522), Nippur (Clay, *BE* VIII 1, No. 71).

I/23/8 (Apr. 18, 522), Shahrinu (Strassmaier, *Cambyses*, No. 409).

For the period from the death of Cambyses to the 2d year of Darius I consult the articles listed in the introduction to this section. Those articles are essential to an understanding of these complex years. As the evidence indicates, Cambyses was still recognized in April, 522. The Behistun inscription, § 11, seems to indicate that he did not die until after July 1, 522 (after IV/9/8). However, his successor, Bardiya, was certainly recognized in Babylonia already in months I and II (see under BARDIYA).

BARDIYA (SMERDIS, GAUMATA)

Evidence for Beginning of Reign

XII/14/— (Mar. 11, 522), Bardiya revolts in Persia (Behistun, § 11).

I/19/1 (Apr. 14, 522), Hubadishu? (Strassmaier in *ZA* IV 123–25 and 148 f., No. 2).

I/—/acc. (II began Apr. 25, 522), Babylon (*ibid.* pp. 123 and 147 f., No. 1).

III/6/acc. (May 30, 522), Babylon (*VAS* IV 85).

III/23/1 (June 16, 522), Sippar (Strassmaier in *ZA* IV 125 f. and 149, No. 3).

IV/9/— (July 1, 522), entire empire seized by Bardiya (Behistun, § 11).

On the confusion of accession year and year 1 in this reign see Cameron in *AJS* LVIII (1941) 314 f.

Evidence for End of Reign

VI/20/1 (Sept. 9, 522), Babylon (Strassmaier in *ZA* IV 127 f. and 151 f., No. 8).

VII/1/1 (Sept. 20, 522), Babylon (*ibid.* pp. 128 and 152, No. 9).

VII/10/— (Sept. 29, 522), Bardiya killed by Darius (Behistun, § 13).

NEBUCHADNEZZAR III (NIDINTU-BEL)

Evidence for Beginning of Reign

VII/14/— (Oct. 3, 522), Sippar (Strassmaier, *Nabuchodonosor*, No. 1, gives as 4th month; G. G. Cameron in *AJS* LVIII 317 f. suggests as probable an emendation to 7th; a recent collation by Sachs approves 7th as certain).

VII/17/— (Oct. 6, 522), Babylon (Strassmaier, *Nabuchodonosor*, No. 3).

VII/20/— (Oct. 9, 522), Babylon (*ibid.* No. 4).

Evidence for End of Reign

IX/7/— (Nov. 24, 522), Borsippa (Krückmann, *NBRVT*, No. 6).

IX/20/— (Dec. 7, 522), Babylon (Strassmaier, *Nabuchodonosor*, No. 9).

IX/21/— (Dec. 8, 522), Babylon (*ibid.* No. 10).

IX/26/— (Dec. 13, 522), Darius defeats Nebuchadnezzar III at the Tigris River (Behistun, § 18).

X/2/— (Dec. 18, 522), Darius defeats Nebuchadnezzar at the Euphrates River near Zazannu. Shortly thereafter he captures and kills Nebuchadnezzar in Babylon (Behistun, §§ 19 and 20).

DARIUS I

Evidence for Beginning of Reign

X/6, 24, 25 and XI/6/acc. (Dec. 22, 522, and Jan. 9, 10, and 21, 521), Babylon (F. H. Weissbach, *Babylonische Miscellen* [Leipzig, 1903] Pl. 15, No. 3).

These four dates are mentioned in the text, which is not dated but was probably written in month XI. Hence this text does not prove conclusively that Darius already held Babylon on December 22, 522.

XI/20/acc. (Feb. 4, 521), Sippar (Strassmaier, *Darius*, No. 1).

XI/25/acc. (Feb. 9, 521), Kutha (unpublished text, Oriental Institute A 729).

Darius I continued to be recognized as king in Babylonia until VI/1/1 (Sept. 8, 521). Then came the revolt of Nebuchadnezzar IV.

Evidence for Darius' Rule in Babylonia before the Revolt of Nebuchadnezzar IV

V/17/1 (Aug. 26, 521), Sippar (Strassmaier, *Darius*, No. 17).

V/18/1 (Aug. 27, 521), Sippar (*ibid.* No. 18).

VI/1/1 (Sept. 8, 521) Sippar (*ibid.* No. 19).

Both Poebel in *AÿSL* LVI (1939) 135 and 138 and Cameron in *AÿSL* LVIII (1941) 318 f. accept Strassmaier, *Darius*, No. 20, as dating to an unknown day of month VII, year 1. Actually, the year number is damaged and might easily have been 2 or 3. This lone tablet cannot prove that Darius held Sippar in month VII, year 1, especially since there is contradictory evidence (see under NEBUCHADNEZZAR IV)

NEBUCHADNEZZAR IV (ARAKA)

Evidence for Beginning of Reign

V/16/1 (Aug. 25, 521), *âl Ga-di-e-ti* (unpub. text YBC 4049, Goetze, *op. cit.* p. 45).

V/24/1 (Sept. 2, 521), Uruk (unpub. text YBC 7386, *ibid.*).

V/26/1 (Sept. 4, 521), Uruk (unpub. text NCBT 364, *ibid.*).

Evidence for End of Reign

VII/13/1 (Oct. 20, 521), Uruk (Keiser, *LCE*, No. 99).

VII/16/1 (Oct. 23, 521), Babylon (Strassmaier, *Nabuchodonosor*, No. 17).

VII/27/1 (Nov. 3, 521), Sippar (*ibid.* No. 18).

VIII/22/1 (Nov. 27, 521), capture of Nebuchadnezzar IV by Persian forces (Behistun, §§ 49 and 50).

Cameron, *loc. cit.*, accepts Strassmaier, *Nabuchodonosor*, No. 12, as evidence that Nebuchadnezzar IV had already revolted in month IV (before Aug. 10, 521) and was recognized in Babylon. The month sign and the year sign are damaged; hence this tablet's date remains uncertain. The uncertainty is increased when the list of tablets dated to Nebuchadnezzar IV (given above) is inspected. The rather closely bunched tablets begin September 9 and carry through to November 3. Between the first certain tablet and the tablet from month IV used by Cameron there is a lacuna of a full month and possibly two months.

The following interpretation is offered: After the defeat and death of Nebuchadnezzar III late in December, 522, Darius I was recognized as ruler of Babylonia until the beginning of September, 521. Toward late August Nebuchadnezzar IV revolted and was recognized as king of Babylonia until late in November, 521. The army sent by Darius achieved the defeat and capture of Nebuchadnezzar on November 27, 521.

DARIUS I

Evidence for Reacceptance of Darius after Defeat of Nebuchadnezzar IV

IX/20/1 (Dec. 25, 521), Borsippa (Clay, *BE* VIII 1, No. 103).

X/5/1 (Jan. 8, 520), Sippar (Strassmaier, *Darius*, No. 22).

X/22/1 (Jan. 25, 520), Babylon (*VAS* IV 89).

Evidence for End of Reign

VI/13/36 (Sept. 24, 486), Dilbat (*VAS* III 165).

VI/19/36 (Sept. 30, 486), Dilbat (*VAS* V 110).

VII/16/36 (Oct. 27, 486), Sippar (unpub. text YBC 7421, Goetze, *op. cit.* p. 45).

VII/27?/36 (Nov. 7?, 486), Borsippa (*VAS* IV 180). The day numeral is damaged and may have been 17 instead of 27, though there seems to be space for a lost 10.

According to this evidence Darius I died in November, 486.

XERXES

Evidence for Beginning of Reign

VIII/22/acc. (Dec. 1, 486), Borsippa (*VAS* V 117).

X/7/acc. (Jan. 14, 485) (Strassmaier in *Actes* . . ., No. 16).

VAS VI 177, from the accession year of Xerxes, has the month sign damaged. It might be IX but more probably is XII. *VAS* VI 182, from Borsippa, is dated to month XI of Xerxes; day and year are broken away. In lines 7 f. there is a reference to month IX of year 36. While no king is mentioned, it is certainly Darius I, who presumably was succeeded by Xerxes in month VIII. It seems probable that the date IX/36 given in this contract is anticipatory, in connection with the delivery of specified quantities of malt beverage. Hence it should not be used to determine the length of the reign of Darius I.

BEL-SHIMANNI, SHAMASH-ERIBA

Cameron in *AJS* LVIII 319–25 has shown the probability that the revolts of Bel-shimanni and Shamash-eriba fall into the 4th year of Xerxes' reign. The revolts were of short duration but apparently brought about a change in royal titulary on Babylonian tablets and possibly the destruction of Babylon. The evidence for the length of the reign of each of these two kings has been presented by Cameron. Here it is merely abstracted and assigned to the 4th year.

Tablet evidence for the rule of Bel-shimanni includes only the period from V/10?/acc. (Aug. 9?, 482) to VI/1 acc. (Aug. 29, 482).

Tablet evidence for the rule of Shamash-eriba includes the period from VI/25/acc. (Sept. 22, 482) to VII/23/acc. (Oct. 20, 482).

XERXES

Evidence for End of Reign

VI/10/16 (Sept. 24, 470), *Bîtu eš-šú* (suburb of Borsippa) (*VAS* III 184).

X–XII/—/20 (XII ends Mar. 24, 465), Persepolis (unpub. text, Oriental Institute A 23253 [courtesy of Professor Cameron]).

V/14?–18?/21 (Aug. 4?–8?, 465), death by murder of Xerxes (unpub. eclipse text BM 32234 = S† 76–11–17, 1961, rev. II' 4' described *LBART* No. *1419. The day number is imperfectly preserved and all numbers from 14 to 18 are possible [Sachs]).

ARTAXERXES I

Evidence for Beginning of Reign

III/—/1 (III begins June 11, 464), Persepolis (unpub. text, Teheran, Iran, PT 4 441 [Cameron]).

I–IV/—/1 (IV ends Aug. 9, 464), Persepolis (unpub. text, Oriental Institute A 23324 [Cameron]).

VII/4/1 (Oct. 12, 464), Nippur (Krückmann, *NBRVT*, No. 142).

VII/5/1 (Oct. 13, 464), Borsippa (Clay, *BE VIII* 1, No. 121).

Evidence for End of Reign

IX/12/41 (Dec. 24, 424), Nippur (Clay, *BE IX* 108).

XI/17/41 (Feb. 26, 423), *TAR-ba-a-a* (Clay, *BE IX* 109).

Clay in *BE X*, page 2, suggests that the last date may incorporate a scribal error, in view of the evidence for the beginning of the reign of Darius II given below. It is also possible that news of the change in rulers had not yet reached the little village near Nippur. Clay (*loc. cit.*) refers also to an unpublished text, C.B.M. 5310, dated to Artaxerxes, XI/3/41. However, a tablet bearing the number C.B.S. 5310 (presumably the same text) was published by Clay himself a few years later (*PBS II* 1, No. 17). Its date is clearly XI/3/1, Darius. Since there seems to be some confusion, the date from the unpublished text cannot be used.

There is no evidence in cuneiform tablets accepted as contemporary that Xerxes II was ever acknowledged as king in Babylonia. Artaxerxes I was recognized as king until the end of December, 424, and possibly even as late as the following February. Certainly Darius II was king, and tablets were dated to him, by the middle of February, 423.

DARIUS II

Evidence for Beginning of Reign

XI/4/acc. (Feb. 13, 423), Babylon (Clay, *BE X* 1 [republished by Krückmann, *NBRVT*, No. 29]).

XI/15/acc. (Feb. 24, 423), Nippur (Clay, *BE X* 2 and 3).

XII/17/acc. (Mar. 28, 423), Nippur (Clay, *BE X* 5).

Two tablets have unusual date formulas. Clay, *BE X* 4 (republished by Krückmann, *NBRVT*, No. 216), and Clay, *BE VIII* 1, No. 127, are dated "41st year, accession year, 12th month" (latter text wrongly "51st year"), the 14th and 20th days respectively of "Darius, king of lands." An unpublished economic text BM 33342 (Sachs) is dated "4th month, day 25(?), 41st year, accession year, Darius, king of lands."

Evidence for End of Reign

VI₂/2/16 (Sept. 20, 408), Ur (Figulla, *UET IV* 93; the intercalary month fixes the date to year 16 of Darius II).

There is no evidence from contemporary business documents for the years 17 to 19 of Darius II, nor are there dated tablets from the accession year of Artaxerxes II. Artaxerxes II was recognized as king before April, 404.

The lengths of the king's reigns from here on are established chiefly by use of the well known Ptolemaic Canon, of the Saros Tablet (Strassmaier in *ZA VII* [1892] 198–201 and in *ZA VIII* [1893] 106–8; Kugler, *SSB II* 363–66), and of the valuable Saros Canon (Joseph Epping and Strassmaier in *ZA VIII* 149–78 and Strassmaier in *ZA X* [1895] 64–69; photographs and a new transliteration were made available through the courtesy of Professor Otto Neugebauer). Additional chronological information from cuneiform texts as well as from

Greek sources was quoted and used by Kugler, *SSB* II 362–438. It has not been thought necessary to repeat evidence of a general character for the lengths of reigns. Our conversion tables indicate the years assigned to the several rulers on the basis of the materials listed above.

ARTAXERXES II

Evidence for Beginning of Reign

II/25/1 (June 3, 404), Ur (Figulla, *UET* IV 60).

VII/28/1 (Nov. 1, 404), Nippur (Clay, *BE* IX 1).

Evidence for End of Reign

VIII/10/46 (Nov. 25, 359), Babylon (*VAS* VI 186; the year numeral is damaged slightly but was read as "46" by Arthur Ungnad).

Artaxerxes II died and was succeeded by Artaxerxes III between late November, 359, and April, 358.

ARTAXERXES III

Accession date indicated by evidence given under ARTAXERXES II. No contemporary cuneiform documents help to establish his twenty-one years of rule, which ended in 338/37.

ARSES

No contemporary evidence is available for his rule of two years (338/37 to 336/35). He is recognized in the lists referred to under DARIUS II.

DARIUS III

No certain contemporary evidence for his rule of five years. See references under DARIUS II. The Ptolemaic Canon gives Darius III a four-year rule in Egypt. Cuneiform evidence gives Darius III five years in Babylonia.

ALEXANDER III THE GREAT

Alexander was recognized in Egypt probably shortly after his invasion, late in 332. He was recognized in Babylon after Gaugamela in October, 331. Cuneiform evidence for the period of Alexander is confused, since two systems of dating were used. One system reckoned year 1 of Alexander as beginning April 3, 330; the other counted from his Macedonian accession, with year 1 as 336, since Macedonian usage did not have an "accession year." The few dated business tablets⁴ are not decisive in determining contemporary practice.

PHILIP ARRHIDAEUS

Recognized as king after Alexander's death, in the summer of 323. The Saros Canon and the Diadochi Chronicle (published by Smith, *BHT*, pp. 124–49 and

⁴ Three listed by Krückmann, *BRVU*, p. 20. But Olmstead in *Classical Philology* XXXII (1937) 4 says: "We have no published cuneiform records from Alexander the Great; those formerly so attributed come from the reign of his son of the same name." See also the references under DARIUS II. Alexander's death probably occurred on the 1st of Simanu (June 13), 323. With Alexander the well-known device of the "accession year" disappears from Babylonian usage, and the part of the regnal year remaining after the death of the previous ruler is reckoned as "year 1" of his successor.

Pls. XV–XVII) both count 323 as his year 1. The Diadochi Chronicle records events up to and including his 8th year (316). This dating is borne out by the business documents. The last document dated to Philip is of V/20/8 (Aug. 13, 316), Uruk (Contenau, *TCL* XIII 249). The Saros Canon, which is not contemporary, recognizes Antigonos as ruling in 317. The Saros Tablet, likewise not contemporary, apparently has the rule of Antigonos beginning in 316. Since Antigonos is never given the title of “king” in contemporary documents but is always called *rab uqu/a* (“general”), he should not be placed in the list of official kings. See on Philip and his successors Krückmann, *BRVU*, pp. 20 f.; T. G. Pinches in *PSBA* VI (1883/84) 204; Sidney Smith in *RA* XXII (1925) 179–97.

ALEXANDER (IV), SON OF ALEXANDER

Recognized as the successor of Philip in 316, which was year 8 for Philip and automatically became Alexander’s year 1, even though Antigonos remained the recognized authority behind the king. The Diadochi Chronicle makes it certain that Alexander was the official king up to his 9th year (308); Pinches in *PSBA* VI 204 refers to the existence of dated documents of his 10th year (307/6); and the new king list reckoned him as king to year 6 (S.E.). This dating is valid despite the Greek evidence, which indicates that Alexander and his mother were murdered probably in 310/9. Apparently the fiction of kingship was carried on after the death of the young Alexander.

SELEUCUS I NICATOR

In Syria Seleucus I began his official reign in the autumn of 312, shortly after he had taken Babylon. In Babylonia the fiction of the royal house of Macedonia continued as above indicated until some time in 306/5, possibly even later. However, when documents were dated to Seleucus I (earliest published text I/3/8 [Apr. 16, 304], *CT* IV [29 d]) in Babylonia, the first year of the king was officially reckoned as having begun on New Year’s Day, April 3, 311, a few months after Seleucus had conquered Babylon.

SELEUCID ERA

Beginning with Seleucus I the Babylonian scribe, who still wrote cuneiform, made one further innovation. He now not only had no “accession years,” but he dated continuously after 311, according to the era of Seleucus.⁵ The beginnings and ends of reigns cannot always be determined with the exactitude which was possible in the earlier periods. However, the nineteen-year cycle had long been fixed, and there is no difficulty in establishing the calendar or in translating Seleucid or Arsacid dates into Julian dates.

With few exceptions all known economic texts have been listed by Krückmann, *BRVU*, pp. 20–23. Kugler in his extensive *SSB* has covered most of the chronological material which can be extracted from the astronomical texts. Olmstead in *Classical Philology* XXXII (1937) 1–14; N. C. Debevoise, *A Political History of Parthia* (Chicago, 1938); and Kugler, *SSB* II 438–63 and *Von Moses bis Paulus*

⁵ In the Macedonian calendar the Seleucid era began with Dios 1 (Oct. 7), 312 B.C.; in the Babylonian it began with Nisanu 1 (Apr. 3), 311 B.C.

(Münster, 1922), pp. 309–44, have combined and ordered our knowledge of the chronology of this period. Of primary importance is the recent publication by A. J. Sachs and D. J. Wiseman, "A Babylonian king list of the Hellenistic period," *Iraq XVI* (1954) 202–12, which has been commented upon by André Aymard, "Du nouveau sur la chronologie des Séleucides," *Revue des Études Anciennes LVII* (1955) 102–12.

Using the cuneiform evidence presented in these studies, we offer this summary of the beginnings and ends of the reigns of Seleucid rulers. Where references for earliest and latest dates are already given in Kugler, *Von Moses bis Paulus*, or in Krückmann, *BRVU*, merely the author's name is indicated. New references are given in full.

SELEUCUS I

Latest Date

XII/2/19 (Mar. 5, 292) (Kugler).

SELEUCUS I and ANTIOCHUS I SOTER

Earliest Date

IX/20/20 (Dec. 13, 292) (Kugler).

Latest Date

VI/—/31 (ends Sept. 24, 281) (Sachs-Wiseman, *King list*; death of Seleucus).

The following date is anachronistic.

IX/10/31 (Dec. 2, 281) (Kugler).

ANTIOCHUS I and SELEUCUS

Earliest Date

Year 32, no month, no day (Apr. 19, 280–Apr. 7, 279) (Kugler).

Latest Date

I/—/45 (ends Apr. 25, 267) (*LBART* Nos. 1220, *1221).

ANTIOCHUS I and ANTIOCHUS II THEOS

Earliest Date

Year 46, no month, no day (Apr. 15, 266–Apr. 3, 265) (Kugler).

The text which we had taken as year 45 (Clay, *BRLM* II, No. 11 and p. 84 = *MLC* 2111) has been re-examined by Goetze, *op. cit.* p. 46, and he believes the reading to be 47.

Latest Date

II/16/51 (June 2, 51) (Sachs-Wiseman, *King list*; death of Antiochus).

ANTIOCHUS II THEOS

Earliest Date

VII/17/51 (Oct. 30, 261) (Krückmann).

Latest Date

V/—/66 (ends Aug. 29, 246) (Sachs-Wiseman, *King list*; death of Antiochus).

SELEUCUS II CALLINICUS, SELEUCUS III SOTER

Earliest Date

III/22/67 (July 11, 245) (Krückmann).

Latest Date

Year [86] (Ends Apr. 10, 225) (Sachs-Wiseman, *King list*; Seleucus II reigned 20 years).

SELEUCUS III SOTER

Earliest Date

Year 87 (begins April 11, 225) (Sachs-Wiseman, *King list*).

Latest Date

III/24/89 (July 10, 223) (Kugler).

ANTIOCHUS III (THE GREAT)

Earliest Date

IX/21/90 (Dec. 21, 222) (Krückmann, with XI misprinted for IX; see J. Oppert and J. Ménant, *Documents juridiques de l'Assyrie et de la Chaldée* [Paris, 1877] p. 314).

Latest Date

V/17/102 (Aug. 8, 210) (Krückmann).

Krückmann, *BRVU*, p. 22, reads Louis Speleers, *Recueil des inscriptions de l'Asie Antérieure des Musées Royaux du Cinquantenaire à Bruxelles* (Bruxelles, 1925) No. 293, as I/2/104. The year had best be read on the basis of Speleers' bad copy (*me me I^{KAM}*) as 101. See also under the following heading.

ANTIOCHUS III and ANTIOCHUS

Earliest Date

Year 102 (begins Mar. 27, 210) (Sachs-Wiseman, *King list*).

Latest Date

X/21/119 (Jan. 28, 192) (Krückmann).

Aymard, *op. cit.* p. 107, believes this date to be anachronistic.

ANTIOCHUS III

Earliest Date

I/1/120 (Apr. 6, 192) (Kugler).

Latest Date

Year 124, no month, no day (ends Apr. 11, 187) (Kugler).

ANTIOCHUS III and SELEUCUS IV PHILOPATOR

Earliest Date

VII/14/123 (Oct. 11, 189) (unpub. text *MLC* 2182, Goetze, *op. cit.* p. 46).

Latest Date

I/25/125 (May 6, 187) (Kugler).

III/25/125 (July 3, 187) (Sachs-Wiseman, *King list*; death of Antiochus).

Aymard, *op. cit.* pp. 108–9, prefers a month earlier.

SELEUCUS IV PHILOPATOR

Earliest Date

IV/11/125 (July 19, 187) (Kugler).

*Latest Date*VI/10/137 (Sept. 3, 175) (Sachs-Wiseman, *King list*; death of Seleucus).

ANTIOCHUS IV EPIPHANES

*Earliest Date*⁶VI/—/137 (ends Sept. 22, 175) (Sachs-Wiseman, *King list*).*Latest Date*XII/10/137 (Feb. 27, 174) (unpublished Oriental Institute tablet A 2518 in Olmstead, *op. cit.* p. 10. This date is anachronistic).

ANTIOCHUS IV and ANTIOCHUS

*Earliest Date*VIII/—/137 (Oct. 23–Nov. 20, 175) (Sachs-Wiseman, *King list*).*Latest Date*V/—/142 (July 31–Aug. 28, 170) (Sachs-Wiseman, *King list*; death of the co-regent).

ANTIOCHUS IV

Earliest Date

III/25/144 (July 3, 168) (Krückmann).

*Latest Date*IX/—/[148] (Nov. 20–Dec. 18, 164) (Sachs-Wiseman, *King list*; death of Antiochus).

ANTIOCHUS V EUPATOR

Latest Date

VII/18/150 (Oct. 16, 162) (Kugler).

DEMETRIUS I SOTER

Earliest Date

II/22/[151] (May 14, 161) (Kugler).

*Latest Date*II/30/161 (June 1, 151) (Louvre tablet AO 17265, *Babyloniaca* XV [1935] plate).
—/3/161 (Apr. 6, 151–Mar. 26, 150) (Krückmann).

ALEXANDER I BALAS

Earliest Date

VII/5/162 (Oct. 21, 150) (Kugler).

⁶ Krückmann gives as what would be an "earliest date" V?/14/136 (Aug.? 19, 176), based on Speleers, *op. cit.* Nos. 298 and 300. But Speleers' copy reads in both cases not "136" but "96". Hence the date concerned really belongs to Antiochus III, not IV.

Latest Date

VIII/20/166 (Nov. 21, 146) (Kugler).

The remaining Seleucid kings and the Parthian kings are given in tabular form only. The known cuneiform data, which may be found in Kugler and Krückmann, are of little utility for chronological purposes. We follow the table in Debevoise, *op. cit.* pp. 270 f.

SELEUCID KINGS

	B.C.		B.C.
DEMETRIUS II NICATOR	{ 145-139/38 129-125	ANTIOCHUS X EUSEBES PHILOPATOR	95-83
ANTIOCHUS VI EPIPHANES	145-142/41	DEMETRIUS III EUCAERUS PHILO-	
ANTIOCHUS VII SIDETES	139/38-129	PATOR SOTER	95-88
ALEXANDER II ZABINAS	128-123	ANTIOCHUS XI PHILADELPHUS	92
ANTIOCHUS VIII GRYPUS and		PHILIPPUS I PHILADELPHUS	92-83
CLEOPATRA THEA	125-121	ANTIOCHUS XII DIONYSUS	87-84
SELEUCUS V	125	TIGRANES OF ARMENIA	83-69
ANTIOCHUS VIII GRYPUS	121-96	ANTIOCHUS XIII ASIATICUS	69-64
ANTIOCHUS IX CYZICENUS	115-95	PHILIPPUS II	65-64
SELEUCUS VI EPIPHANES NICATOR			
	96-95		

PARTHIAN KINGS

	B.C.		A.D.
ARSACES	ca. 250-248	VONONES I	7/8-12
TIRIDATES I	ca. 248-211	ARTABANUS III	12-ca. 38
ARTABANUS I	ca. 211-191	TIRIDATES III	ca. 36
PRIAPATIUS	ca. 191-176	CINNAMUS	ca. 37
PHRAATES I	ca. 176-171	GOTARZES II	ca. 38-51
MITHRADATES I	ca. 171-138/37	VARDANES	ca. 39-47/48
PHRAATES II	138/37-ca. 128	VONONES II	ca. 51
ARTABANUS II	ca. 128-124/23	VOLOGASES I	51/52-79/80
MITHRADATES II	ca. 123-88/87	PACORUS II	78-115/16?
GOTARZES I	91-81/80	ARTABANUS IV	80-81
ORODES I	80-76/75	OSROES	ca. 109/10-128/29
SINATRUCES	76/75-70 or 69	PARTHAMASPATES	ca. 117
PHRAATES III	70 or 69-58/57	VOLOGASES II	105/6?-147
MITHRADATES III	58/57-55	MITHRADATES IV	128/29?-147?
ORODES II	ca. 57-37/36	VOLOGASES III	148-192
PACORUS I	died in 38	VOLOGASES IV	191-207/8
PHRAATES IV	ca. 38-2	VOLOGASES V	207/8-222/23
TIRIDATES II	ca. 30-25	ARTABANUS V	ca. 213-227
PHRAATACES (PHRAATES V)	2 B.C.—A.D. 4	ARTAVASDES	ca. 227-228/29?
ORODES III	A.D. 4-ca. 6/7		

III

TABLES FOR THE RESTATEMENT OF BABYLONIAN DATES IN TERMS OF THE JULIAN CALENDAR

ALL the dates in the following tables have been calculated by the new-moon tables of Karl Schoch in S. Langdon and J. K. Fotheringham, *The Venus Tablets of Ammizaduga* (London, 1928). Special care has been exercised in checking every sequence of three or more thirty-day months and of three twenty-nine-day months.¹

Accuracy of the tables. As all dates are calculated their accuracy depends upon the accuracy of Schoch's tables. Upon these O. Neugebauer has recently cast some doubt as the result of his own investigations into the visibility of Mercury and his discovery that Schoch's *arcus visionis* was in part derived from calculated rather than observed Babylonian data.² How this error might affect Schoch's computations for the number of hours which must elapse after conjunction for the crescent to be visible has not yet been determined. Until this has been done we cannot be fully confident of our results in critical cases, that is when the number of hours from conjunction to 6 p.m. of the probable day of visibility is nearly the same as the number of hours required for visibility according to Schoch's table. Accordingly it is possible that a certain number of dates in our tables may be wrong by one day, but as they are purely for historical purposes, this uncertainty is unimportant. It should be noted that there is a slight additional element of uncertainty for biblical dates given in the Babylonian calendar, since the new moon was visible at Jerusalem thirty-seven minutes before it was visible at Babylon and therefore upon occasion the new month could begin a day earlier at Jerusalem. Our tables are accurate as stated for sites in Babylonia between 31.5° and 33.5° in latitude and tend to grow slightly less exact as these limits are exceeded (cf. Schoch, *op. cit.* p. 94). Ancient errors of observation are, of course, also possible. The degrees of uncertainty of the unattested intercalary months (shown in *italics*) may be ascertained by checking Plate I.

¹ Schoch (*op. cit.* p. 98) is wrong when he states that three successive months of twenty-nine days are impossible and infers that the same is true of more than three thirty-day months. Cf. Johann Schaumberger in *SSB*, Ergänzungsheft 3 (1935) p. 255.

² O. Neugebauer, "The Babylonian Method for the Computation of the Last Visibilities of Mercury," *Proceedings of the American Philosophical Society* 95 (1951) pp. 110-16.

Use of the tables.—The dates as given are civil days, from midnight to midnight, although in actual practice the Babylonian day began in each case with the preceding sunset. The dates given are those of the first day of each month. Leap years are indicated by italicizing the last figure of the year when it is first given, e.g. 625. The accession year of every king is shown as the last year of his predecessor. In the interest of economy of space, months are designated here not by Roman numerals, as used elsewhere in this work, but by Arabic numerals; thus 4/5 is April 5.

The arrangement in the tables is that of the Babylonian calendar, which began in the spring. The Macedonian calendar, however, began in the fall, six months earlier. Hence it must be borne in mind that each year of the Macedonian Seleucid era overlapped two Babylonian years, the *second* of which bore the same number as the Macedonian year.

The month names of the calendars used at various times in this period up to A.D. 75/76 are to be correlated with the Babylonian names as follows.³

BABYLONIAN	HEBREW	MACEDONIAN	OLD PERSIAN	ACHAEMENID ELAMITE
Nisanu	Nisan	Artemisios	Adukanish	Hadukannash
Aiaru	Iyyar	Daisios	Thuravahara	Turmar
Simanu	Sivan	Panemos	Thaigarchish	Sakurrisish
Duzu	Tammuz	Loös	Garmapada	Karmabadash
Abu	Ab	Gorpiaios		Turnabasish
Ululu	Elul	Hyperberetaios		Qarbashiyash
Tashritu	Tishri	Dios	Bagayadish	Bagiyatish
Arahsamnu	Heshvan	Apellaios		Marqashanash
Kislimu	Kislev	Audynaïos	Açiyadiya	Hashiyatish
Tebetü	Tebeth	Peritios	Anamaka	Hanamakash
Shabatu	Shebat	Dystros		Samimash
Addaru	Adar	Xanthikos	Viyakhna	Mikannash

In the tables the Babylonian month names, abbreviated to their first three letters, are used.

³ For the Old Persian and Achaemenid Elamite correlations cf. Poebel in *AJSL* LV (1938) 139. In A.D. 46/47 it is probable that the correlation between the Babylonian and the Macedonian calendars was altered by the insertion of an additional month into the cycle of the Greek months. On this see R. H. McDowell, *Coins from Seleucia on the Tigris* (Ann Arbor, 1935) pp. 147–53 and A. T. Olmstead, "The chronology of Jesus' life," *Anglican Theological Review* XXIV (1942) 3 f.

NABOPOLASSAR

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
Ac	626	4/5	5/5	6/4	7/3	8/2	8/31		9/29	10/29	11/27	12/27	625	1/25	2/24
1	625	3/24	4/23	5/23	6/21	7/21	8/19		9/18	10/18	11/16	12/16	624	1/14	2/12
2	624	3/14	4/12	5/12	6/10	7/10	8/9		9/7	10/7	11/6	12/5	623	1/4	2/2 3/3
3	623	4/2	5/1	5/31	6/29	7/29	8/27		9/26	10/26	11/25	12/24	622	1/23	2/21
4	622	3/22	4/21	5/20	6/18	7/18	8/16		9/15	10/15	11/14	12/13	621	1/12	2/11
5	621	3/11	4/9	5/9	6/7	7/6	8/5	9/3	10/3	11/2	12/2	620	1/1	1/30	3/1
6	620	3/30	4/28	5/28	6/26	7/25	8/24		9/22	10/22	11/21	12/21	619	1/19	2/18
7	619	3/19	4/18	5/17	6/16	7/15	8/13		9/12	10/12	11/10	12/10	618	1/8	2/7 3/8
8	618	4/7	5/7	6/5	7/5	8/3	9/1		10/1	10/31	11/29	12/28	617	1/27	2/25
9	617	3/26	4/25	5/24	6/23	7/23	8/21		9/20	10/19	11/18	12/17	616	1/15	2/14
10	616	3/15	4/14	5/13	6/12	7/12	8/11	9/9	10/9	11/7	12/7	615	1/5	2/3	3/5
11	615	4/3	5/3	6/1	7/1	7/31	8/30		9/28	10/28	11/26	12/26	614	1/24	2/22
12	614	3/24	4/22	5/21	6/20	7/20	8/19		9/18	10/17	11/16	12/15	613	1/13	2/12 3/12
13	613	4/11	5/10	6/8	7/8	8/7	9/5		10/5	11/4	12/3	612	1/2	1/31	3/2
14	612	3/31	4/30	5/29	6/27	7/27	8/26		9/24	10/24	11/22	12/22	611	1/21	2/19
15	611	3/21	4/19	5/19	6/17	7/16	8/15	9/13	10/13	11/11	12/11	610	1/10	2/9	3/10
16	610	4/9	5/8	6/7	7/6	8/5	9/3		10/2	11/1	11/30	12/30	609	1/29	2/27
17	609	3/28	4/27	5/26	6/25	7/24	8/23		9/21	10/20	11/19	12/18	608	1/17	2/15
18	608	3/17	4/16	5/15	6/14	7/14	8/12		9/10	10/10	11/8	12/8	607	1/6	2/5
19	607	3/6	4/5	5/4	6/3	7/3	8/1	8/31	9/29	10/29	11/27	12/27	606	1/25	2/24
20	606	3/25	4/24	5/23	6/22	7/21	8/20		9/19	10/18	11/17	12/17	605	1/15	2/13 3/14
21	605	4/12	5/11	6/10	7/9	8/8	9/7		10/7	11/5	12/5	604	1/4	2/2	3/3

NEBUCHADNEZZAR II

1	604	4/2	5/1	5/30	6/29	7/28	8/27		9/26	10/25	11/24	12/24	603	1/23	2/21
2	603	3/22	4/21	5/20	6/18	7/17	8/16	9/15	10/15	11/13	12/13	602	1/12	2/10	3/12
3	602	4/10	5/10	6/8	7/7	8/6	9/4		10/4	11/3	12/2	601	1/1	1/30	2/29
4	601	3/30	4/28	5/28	6/26	7/25	8/24		9/22	10/22	11/21	12/20	600	1/19	2/17
5	600	3/19	4/17	5/17	6/15	7/15	8/13	9/11	10/10	11/9	12/9	599	1/8	2/6	3/7
6	599	4/6	5/6	6/5	7/4	8/3	9/2		10/1	10/31	11/29	12/28	598	1/27	2/25
7	598	3/27	4/25	5/25	6/23	7/23	8/22	9/21	10/20	11/19	12/18	597	1/16	2/15	3/15
8	597	4/13	5/13	6/11	7/11	8/10	9/9		10/9	11/7	12/6	596	1/5	2/3	3/5
9	596	4/3	5/2	6/1	6/30	7/30	8/29	9/28	10/28	11/26	12/25	595	1/24	2/22	3/24
10	595	4/22	5/21	6/20	7/19	8/18	9/17		10/16	11/15	12/15	594	1/13	2/12	3/13

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
11	594	4/12	5/11	6/9	7/9	8/7	9/6		10/6	11/4	12/4	593	1/2	2/1	3/2 3/31
12	593	4/30	5/29	6/27	7/27	8/25	9/24		10/23	11/22	12/21	592	1/20	2/19	3/21
13	592	4/19	5/19	6/17	7/17	8/15	9/13		10/13	11/11	12/10	591	1/9	2/8	3/10
14	591	4/8	5/8	6/7	7/6	8/5	9/3		10/2	11/1	11/30	12/29	590	1/28	2/27 3/28
15	590	4/27	5/27	6/25	7/25	8/23	9/22		10/21	11/20	12/19	589	1/18	2/16	3/16
16	589	4/15	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	588	1/6	2/5	3/6
17	588	4/4	5/4	6/2	7/2	7/31	8/30		9/29	10/29	11/27	12/27	587	1/25	2/24 3/25
18	587	4/23	5/23	6/21	7/21	8/19	9/18		10/18	11/17	12/16	586	1/15	2/13	3/15
19	586	4/13	5/12	6/11	7/10	8/8	9/7		10/7	11/6	12/6	585	1/4	2/3	3/3
20	585	4/2	5/1	5/30	6/29	7/28	8/26		9/25	10/25	11/24	12/23	584	1/22	2/21
21	584	3/22	4/21	5/20	6/18	7/18	8/16	9/14	10/14	11/13	12/13	583	1/11	2/10	3/11
22	583	4/10	5/9	6/8	7/7	8/6	9/4		10/4	11/2	12/2	12/31	582	1/30	2/28
23	582	3/30	4/29	5/28	6/27	7/26	8/25		9/23	10/23	11/21	12/21	581	1/19	2/18 3/18
24	581	4/17	5/16	6/15	7/15	8/13	9/12		10/12	11/10	12/9	580	1/8	2/6	3/7
25	580	4/6	5/5	6/4	7/4	8/3	9/1		10/1	10/31	11/29	12/28	579	1/27	2/25
26	579	3/26	4/25	5/24	6/23	7/23	8/22		9/20	10/20	11/19	12/18	578	1/16	2/15 3/16
27	578	4/14	5/14	6/12	7/12	8/10	9/9		10/9	11/8	12/7	577	1/6	2/4	3/5
28	577	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/27	11/25	12/25	576	1/24	2/22 3/24
29	576	4/22	5/21	6/20	7/19	8/18	9/16		10/16	11/14	12/14	575	1/13	2/11	3/13
30	575	4/12	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	574	1/2	1/31	3/2
31	574	4/1	4/30	5/30	6/28	7/28	8/26	9/25	10/24	11/22	12/22	573	1/20	2/19	3/20
32	573	4/19	5/18	6/17	7/16	8/15	9/13		10/13	11/11	12/10	572	1/9	2/7	3/9
33	572	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	11/30	12/29	571	1/28	2/26 3/28
34	571	4/26	5/26	6/25	7/24	8/23	9/22		10/21	11/20	12/19	570	1/18	2/16	3/17
35	570	4/16	5/15	6/14	7/13	8/12	9/10		10/10	11/9	12/9	569	1/7	2/6	3/6
36	569	4/4	5/4	6/2	7/1	7/31	8/30		9/28	10/28	11/27	12/27	568	1/25	2/24 3/25
37	568	4/23	5/23	6/21	7/20	8/19	9/17		10/17	11/16	12/16	567	1/15	2/13	3/15
38	567	4/13	5/12	6/11	7/10	8/8	9/7		10/6	11/5	12/5	566	1/4	2/2	3/4
39	566	4/2	5/2	5/31	6/29	7/29	8/27		9/26	10/25	11/24	12/24	565	1/22	2/21
40	565	3/22	4/20	5/20	6/18	7/17	8/16		9/14	10/14	11/13	12/12	564	1/11	2/9
41	564	3/11	4/9	5/9	6/7	7/7	8/5	9/4	10/4	11/2	12/2	12/31	563	1/29	2/28
42	563	3/29	4/28	5/28	6/26	7/26	8/25		9/23	10/23	11/21	12/21	562	1/19	2/17 3/19
43	562	4/17	5/17	6/15	7/15	8/14	9/13		10/13	11/11	12/10	561	1/9	2/7	3/7

AMEL-MARDUK

1	561	4/6	5/5	6/3	7/3	8/2	9/1		10/1	10/30	11/29	12/28	560	1/27	2/25
2	560	3/26	4/24	5/24	6/22	7/22	8/21		9/20	10/20	11/18	12/18	559	1/16	2/15 3/16

NERGAL-SHAR-USUR

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
1	559	4/14	5/14	6/12	7/11	8/10	9/9		10/9	11/7	12/7	558	1/5	2/4	3/5
2	558	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26	12/25	557	1/24	2/23
3	557	3/23	4/22	5/21	6/20	7/19	8/18		9/16	10/15	11/14	12/13	556	1/12	2/11 3/12
4	556	4/11	5/11	6/9	7/9	8/7	9/6		10/5	11/3	12/3	555	1/1	1/30	3/1

Labashi-Marduk = year 4 of Nergal-shar-usur

NABUNAID

1	555	3/31	4/30	5/30	6/28	7/28	8/26		9/25	10/24	11/22	12/22	554	1/20	2/19 3/20
2	554	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/12	12/11	553	1/10	2/8	3/9
3	553	4/7	5/7	6/5	7/5	8/3	9/2		10/2	10/31	11/30	12/29	552	1/28	2/26 3/28
4	552	4/26	5/25	6/24	7/23	8/22	9/21		10/21	11/19	12/19	551	1/18	2/16	3/17
5	551	4/16	5/15	6/13	7/13	8/11	9/10		10/10	11/8	12/8	550	1/7	2/6	3/7
6	550	4/5	5/5	6/3	7/2	8/1	8/30		9/29	10/29	11/27	12/27	549	1/26	2/24 3/25
7	549	4/23	5/23	6/21	7/20	8/19	9/17		10/17	11/16	12/15	548	1/14	2/13	3/14
8	548	4/13	5/12	6/11	7/10	8/8	9/7		10/6	11/5	12/5	547	1/3	2/2	3/3
9	547	4/2	5/2	5/31	6/29	7/29	8/27		9/26	10/25	11/24	12/23	546	1/22	2/20
10	546	3/22	4/21	5/20	6/19	7/18	8/17 9/15		10/15	11/14	12/13	545	1/11	2/10	3/10
11	545	4/9	5/8	6/7	7/6	8/5	9/4		10/3	11/2	12/2	12/31	544	1/29	2/28
12	544	3/29	4/27	5/27	6/25	7/25	8/24		9/23	10/23	11/21	12/21	543	1/19	2/17 3/19
13	543	4/17	5/16	6/15	7/14	8/13	9/12		10/12	11/11	12/10	542	1/9	2/7	3/8
14	542	4/6	5/6	6/4	7/4	8/2	9/1		10/1	10/30	11/29	12/29	541	1/27	2/26
15	541	3/26	4/25	5/24	6/22	7/22	8/20		9/19	10/18	11/17	12/17	540	1/16	2/14 3/16
16	540	4/14	5/14	6/12	7/11	8/10	9/8		10/8	11/7	12/6	539	1/5	2/3	3/5
17	539	4/4	5/3	6/2	7/1	7/31	8/29		9/27	10/27	11/25	12/24	538	1/23	2/22

CYRUS

1	538	3/24	4/22	5/22	6/20	7/20	8/19		9/17	10/16	11/15	12/14	537	1/13	2/11
2	537	3/12	4/10	5/10	6/9	7/8	8/7 9/6		10/5	11/3	12/3	536	1/1	1/30	3/1
3	536	3/31	4/29	5/29	6/28	7/27	8/26		9/25	10/24	11/22	12/22	535	1/20	2/19 3/20
4	535	4/18	5/18	6/17	7/16	8/15	9/14		10/13	11/12	12/11	534	1/9	2/8	3/9
5	534	4/8	5/7	6/6	7/6	8/4	9/3		10/2	11/1	12/1	12/30	533	1/29	2/27
6	533	3/28	4/26	5/25	6/24	7/24	8/22		9/20	10/20	11/19	12/19	532	1/17	2/16 3/17
7	532	4/16	5/15	6/13	7/13	8/11	9/9		10/9	11/8	12/8	531	1/6	2/5	3/7
8	531	4/5	5/5	6/3	7/2	7/31	8/30		9/28	10/28	11/27	12/27	530	1/25	2/24
9	530	3/26	4/24	5/24	6/22	7/21	8/20 9/18		10/18	11/16	12/16	529	1/14	2/13	3/14

CAMBYSES

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II	
1	529	4/12	5/12	6/10	7/10	8/8	9/7	10/6	11/5	12/4	528	1/3	2/1	3/3	
2	528	4/1	5/1	5/30	6/29	7/29	8/27	9/26	10/26	11/24	12/23	527	1/22	2/20	
3	527	3/21	4/20	5/19	6/18	7/18	8/16	9/15	10/15	11/14	12/13	526	1/11	2/10	3/11
4	526	4/9	5/9	6/7	7/7	8/6	9/5	10/5	11/3	12/2	525	1/1	1/30	2/29	
5	525	3/29	4/27	5/26	6/25	7/25	8/24	9/23	10/22	11/21	12/20	524	1/19	2/17	3/19
6	524	4/17	5/16	6/14	7/14	8/13	9/12	10/11	11/10	12/10	523	1/8	2/7	3/8	
7	523	4/7	5/6	6/4	7/4	8/2	9/1	10/1	10/30	11/29	12/28	522	1/27	2/26	
8	522	3/27	4/25	5/25	6/23	7/23	8/21	9/20	10/19	11/18	12/17	521	1/16	2/15	3/15

Bardiya = year 8 of Cambyses
Nebuchadnezzar III = year 8 of Cambyses

DARIUS I

Nebuchadnezzar IV = year 1 of Darius I

1	521	4/14	5/13	6/12	7/11	8/10	9/8	10/8	11/6	12/6	520	1/4	2/3	3/4	
2	520	4/3	5/3	6/1	7/1	7/31	8/29	9/27	10/27	11/25	12/24	519	1/23	2/21	
3	519	3/23	4/22	5/21	6/20	7/20	8/19	9/17	10/16	11/15	12/14	518	1/12	2/11	3/12
4	518	4/11	5/10	6/9	7/9	8/8	9/6	10/6	11/4	12/4	517	1/2	1/31	3/1	
5	517	3/30	4/29	5/28	6/27	7/27	8/25	9/24	10/24	11/22	12/22	516	1/20	2/19	3/20
6	516	4/18	5/18	6/16	7/16	8/14	9/13	10/13	11/11	12/11	515	1/10	2/8	3/10	
7	515	4/8	5/7	6/6	7/5	8/3	9/2	10/2	10/31	11/30	12/30	514	1/29	2/27	
8	514	3/29	4/27	5/26	6/25	7/24	8/22	9/21	10/20	11/19	12/19	513	1/18	2/16	3/17
9	513	4/16	5/15	6/13	7/13	8/11	9/10	10/9	11/7	12/7	512	1/6	2/5	3/6	
10	512	4/5	5/4	6/3	7/2	7/31	8/30	9/29	10/28	11/28	12/27	511	1/25	2/23	
11	511	3/25	4/23	5/23	6/22	7/21	8/19	9/18	10/18	11/16	12/16	510	1/14	2/12	3/14
12	510	4/13	5/12	6/11	7/10	8/9	9/8	10/7	11/6	12/5	509	1/4	2/2	3/2	
13	509	4/1	4/30	5/30	6/28	7/28	8/27	9/26	10/25	11/24	12/23	508	1/22	2/20	3/21
14	508	4/20	5/19	6/17	7/17	8/16	9/15	10/15	11/14	12/13	507	1/11	2/10	3/11	
15	507	4/9	5/8	6/7	7/6	8/5	9/4	10/4	11/3	12/2	506	1/1	1/30	3/1	
16	506	3/30	4/28	5/27	6/26	7/25	8/24	9/23	10/23	11/21	12/21	505	1/20	2/18	3/18
17	505	4/17	5/16	6/14	7/14	8/12	9/11	10/11	11/9	12/9	504	1/8	2/6	3/8	
18	504	4/6	5/6	6/4	7/4	8/2	9/1	9/30	10/30	11/28	12/28	503	1/26	2/25	
19	503	3/27	4/25	5/25	6/23	7/23	8/21	9/20	10/19	11/18	12/17	502	1/15	2/14	3/16
20	502	4/14	5/14	6/13	7/12	8/11	9/9	10/9	11/7	12/6	501	1/5	2/3	3/4	
21	501	4/2	5/2	6/1	6/30	7/30	8/29	9/27	10/27	11/25	12/24	500	1/23	2/21	
22	500	3/23	4/21	5/21	6/19	7/19	8/18	9/17	10/16	11/15	12/14	499	1/12	2/11	3/12
23	499	4/11	5/10	6/9	7/8	8/7	9/6	10/5	11/4	12/3	498	1/2	1/31	3/2	
24	498	3/31	4/30	5/29	6/27	7/27	8/26	9/24	10/24	11/23	12/22	497	1/21	2/20	3/20
25	497	4/18	5/18	6/16	7/15	8/14	9/12	10/12	11/11	12/10	496	1/9	2/8	3/9	

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
26	496	4/8	5/7	6/6	7/5	8/3	9/2		10/1	10/31	11/29	12/29	495	1/28	2/26
27	495	3/28	4/27	5/26	6/25	7/24	8/22		9/21	10/20	11/19	12/18	494	1/17	2/16 3/17
28	494	4/16	5/16	6/14	7/14	8/12	9/10		10/10	11/8	12/8	493	1/6	2/5	3/6
29	493	4/4	5/4	6/2	7/2	7/31	8/30		9/28	10/28	11/26	12/26	492	1/24	2/23 3/24
30	492	4/23	5/22	6/21	7/21	8/19	9/18		10/18	11/16	12/16	491	1/14	2/12	3/14
31	491	4/12	5/12	6/10	7/10	8/8	9/7		10/7	11/6	12/5	490	1/4	2/2	3/3
32	490	4/2	5/1	5/30	6/29	7/28	8/27		9/26	10/26	11/25	12/24	489	1/23	2/21 3/21
33	489	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/13	12/13	488	1/11	2/9	3/11
34	488	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/2	12/2	12/31	487	1/30	2/28
35	487	3/30	4/28	5/28	6/26	7/25	8/24		9/23	10/22	11/21	12/20	486	1/19	2/17 3/19
36	486	4/18	5/17	6/15	7/15	8/13	9/12		10/12	11/10	12/9	485	1/8	2/6	3/7

XERXES

1	485	4/6	5/5	6/4	7/4	8/2	9/1		9/30	10/30	11/28	12/27	484	1/26	2/24
2	484	3/26	4/25	5/24	6/23	7/23	8/21	9/20	10/19	11/17	12/17	483	1/15	2/13	3/15
3	483	4/14	5/13	6/12	7/12	8/11	9/9		10/9	11/7	12/6	482	1/5	2/3	3/4
4	482	4/3	5/2	6/1	7/1	7/31	8/29		9/28	10/28	11/26	12/25	481	1/24	2/22 3/22
5	481	4/21	5/20	6/19	7/19	8/17	9/16		10/16	11/14	12/14	480	1/12	2/11	3/12
6	480	4/11	5/10	6/8	7/8	8/6	9/5		10/5	11/3	12/3	479	1/2	1/31	3/2
7	479	3/31	4/30	5/29	6/27	7/27	8/25		9/24	10/23	11/22	12/22	478	1/21	2/19 3/21
8	478	4/19	5/19	6/17	7/16	8/15	9/13		10/12	11/11	12/11	477	1/10	2/8	3/9
9	477	4/8	5/7	6/6	7/5	8/3	9/2		10/1	10/30	11/29	12/29	476	1/27	2/26
10	476	3/28	4/26	5/26	6/24	7/24	8/22		9/21	10/20	11/19	12/18	475	1/17	2/15 3/17
11	475	4/15	5/15	6/14	7/13	8/12	9/10		10/10	11/8	12/8	474	1/6	2/5	3/6
12	474	4/5	5/4	6/3	7/2	8/1	8/31		9/29	10/29	11/28	12/27	473	1/25	2/24 3/24
13	473	4/22	5/22	6/20	7/20	8/19	9/18		10/17	11/16	12/16	472	1/14	2/12	3/13
14	472	4/12	5/11	6/10	7/10	8/9	9/7		10/7	11/5	12/5	471	1/4	2/2	3/3
15	471	4/1	5/1	5/30	6/28	7/28	8/27		9/26	10/26	11/24	12/24	470	1/22	2/21 3/22
16	470	4/21	5/20	6/18	7/17	8/16	9/15		10/15	11/13	12/13	469	1/12	2/10	3/11
17	469	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/1	12/1	12/31	468	1/29	2/28
18	468	3/29	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/20	467	1/18	2/17 3/18
19	467	4/17	5/17	6/15	7/15	8/14	9/12		10/12	11/10	12/9	466	1/7	2/6	3/7
20	466	4/6	5/6	6/4	7/4	8/3	9/2		10/1	10/31	11/29	12/28	465	1/26	2/25
21	465	3/25	4/24	5/24	6/22	7/22	8/21	9/20	10/19	11/17	12/17	464	1/15	2/13	3/15

ARTAXERXES I

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
1	464	4/13	5/13	6/11	7/11	8/10	9/9	10/8	11/7	12/6	463	1/5	2/3	3/4
2	463	4/3	5/2	6/1	6/30	7/30	8/29	9/27	10/27	11/26	12/25	462	1/24	2/22 3/24
3	462	4/22	5/21	6/20	7/19	8/18	9/16	10/16	11/15	12/14	461	1/13	2/12	3/12
4	461	4/11	5/10	6/8	7/8	8/6	9/5	10/4	11/3	12/2	460	1/1	1/31	3/1
5	460	3/31	4/30	5/29	6/27	7/27	8/25	9/23	10/23	11/21	12/21	459	1/20	2/19 3/20
6	459	4/19	5/18	6/17	7/16	8/15	9/13	10/12	11/11	12/10	458	1/9	2/8	3/9
7	458	4/8	5/8	6/6	7/6	8/4	9/3	10/2	10/31	11/30	12/29	457	1/28	2/27
8	457	3/27	4/26	5/25	6/24	7/24	8/22	9/21	10/20	11/19	12/18	456	1/17	2/15 3/16
9	456	4/15	5/14	6/13	7/13	8/11	9/10	10/10	11/8	12/8	455	1/6	2/5	3/6
10	455	4/4	5/4	6/2	7/2	7/31	8/30	9/29	10/29	11/27	12/27	454	1/25	2/24 3/25
11	454	4/23	5/22	6/21	7/20	8/19	9/18	10/18	11/17	12/16	453	1/15	2/13	3/14
12	453	4/12	5/11	6/9	7/9	8/7	9/6	10/6	11/5	12/5	452	1/3	2/2	3/3
13	452	4/2	5/1	5/30	6/28	7/28	8/26	9/25	10/25	11/24	12/23	451	1/22	2/20 3/22
14	451	4/20	5/20	6/18	7/17	8/16	9/15	10/14	11/13	12/12	450	1/11	2/9	3/11
15	450	4/10	5/9	6/8	7/7	8/6	9/4	10/4	11/2	12/1	12/31	449	1/29	2/28
16	449	3/29	4/27	5/27	6/26	7/25	8/24	9/22	10/22	11/20	12/19	448	1/18	2/16 3/18
17	448	4/16	5/16	6/15	7/15	8/13	9/12	10/12	11/10	12/9	447	1/7	2/6	3/7
18	447	4/6	5/5	6/4	7/4	8/2	9/1	10/1	10/30	11/29	12/28	446	1/26	2/25
19	446	3/26	4/25	5/24	6/23	7/22	8/21	9/20	10/20	11/18	12/18	445	1/16	2/14 3/15
20	445	4/13	5/12	6/11	7/11	8/9	9/8	10/8	11/6	12/6	444	1/4	2/3	3/4
21	444	4/3	5/2	6/1	6/30	7/30	8/28	9/27	10/26	11/25	12/25	443	1/23	2/22 3/23
22	443	4/22	5/21	6/20	7/19	8/17	9/16	10/15	11/14	12/14	442	1/12	2/11	3/13
23	442	4/11	5/11	6/9	7/9	8/7	9/5	10/5	11/3	12/3	441	1/1	1/31	3/1
24	441	3/31	4/29	5/29	6/27	7/27	8/25	9/23	10/23	11/21	12/21	440	1/19	2/18 3/19
25	440	4/18	5/18	6/17	7/16	8/15	9/13	10/12	11/11	12/10	439	1/9	2/7	3/9
26	439	4/7	5/7	6/6	7/5	8/4	9/2	10/2	10/31	11/30	12/29	438	1/28	2/26
27	438	3/28	4/26	5/26	6/24	7/24	8/23	9/21	10/21	11/20	12/19	437	1/18	2/16 3/16
28	437	4/14	5/14	6/12	7/12	8/11	9/9	10/9	11/8	12/8	436	1/6	2/5	3/6
29	436	4/4	5/3	6/2	7/1	7/31	8/29	9/28	10/28	11/27	12/27	435	1/25	2/24 3/25
30	435	4/23	5/22	6/21	7/20	8/19	9/17	10/17	11/16	12/16	434	1/14	2/13	3/14
31	434	4/13	5/12	6/10	7/10	8/8	9/7	10/6	11/5	12/5	433	1/3	2/2	3/3
32	433	4/1	5/1	5/30	6/28	7/28	8/26	9/25	10/25	11/23	12/23	432	1/21	2/20 3/21
33	432	4/20	5/19	6/18	7/17	8/16	9/15	10/14	11/13	12/12	431	1/10	2/9	3/10
34	431	4/9	5/9	6/7	7/7	8/6	9/4	10/4	11/2	12/2	12/31	430	1/29	2/28
35	430	3/29	4/28	5/27	6/26	7/26	8/25	9/23	10/23	11/21	12/20	429	1/19	2/17 3/17

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TRB	SHA	ADD	A II
36	429	4/16	5/15	6/14	7/14	8/13	9/12	10/11	11/10	12/9	428	1/7	2/6	3/7
37	428	4/5	5/5	6/3	7/3	8/2	9/1	9/30	10/30	11/29		12/28	427	1/26 2/25
38	427	3/26	4/24	5/24	6/22	7/22	8/21	9/20	10/19	11/18		12/17	426	1/16 2/14 3/16
39	426	4/14	5/13	6/12	7/11	8/10	9/8	10/8	11/7	12/6	425	1/5	2/4	3/4
40	425	4/3	5/2	6/1	6/30	7/29	8/28	9/26	10/26	11/24		12/24	424	1/23 2/21 3/23
41	424	4/22	5/21	6/20	7/19	8/17	9/16	10/15	11/14	12/13	423	1/12	2/10	3/12

DARIUS II

1	423	4/11	5/11	6/9	7/9	8/7	9/5	10/5	11/3	12/3	422	1/1	1/31	3/1
2	422	3/31	4/30	5/29	6/28	7/28	8/26	9/24	10/24	11/22		12/22	421	1/20 2/19 3/19
3	421	4/18	5/17	6/16	7/16	8/14	9/13	10/12	11/11	12/10	420	1/9	2/7	3/9
4	420	4/7	5/6	6/5	7/5	8/3	9/2	10/2	10/31	11/30		12/29	419	1/28 2/26
5	419	3/27	4/26	5/25	6/24	7/23	8/22	9/21	10/21	11/19		12/19	418	1/17 2/16 3/17
6	418	4/15	5/15	6/13	7/12	8/11	9/10	10/10	11/8	12/8	417	1/7	2/5	3/6
7	417	4/4	5/3	6/2	7/1	7/30	8/29	9/28	10/28	11/26		12/26	416	1/25 2/23 3/25
8	416	4/23	5/22	6/21	7/20	8/18	9/17	10/17	11/16	12/15	415	1/14	2/12	3/14
9	415	4/13	5/12	6/10	7/10	8/8	9/7	10/6	11/5	12/4	414	1/3	2/1	3/3
10	414	4/2	5/1	5/31	6/29	7/29	8/27	9/26	10/26	11/24		12/23	413	1/22 2/20 3/21
11	413	4/19	5/19	6/18	7/17	8/16	9/15	10/14	11/13	12/12	412	1/10	2/8	3/10
12	412	4/8	5/8	6/7	7/6	8/5	9/4	10/4	11/2	12/2		12/31	411	1/29 2/27
13	411	3/29	4/27	5/27	6/25	7/25	8/24	9/23	10/23	11/21		12/20	410	1/19 2/17 3/18
14	410	4/17	5/16	6/15	7/14	8/13	9/12	10/12	11/10	12/10	409	1/8	2/7	3/7
15	409	4/5	5/5	6/3	7/3	8/1	8/31	9/30	10/29	11/28		12/28	408	1/27 2/25
16	408	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/17	12/17	407	1/15	2/14 3/16
17	407	4/14	5/14	6/12	7/11	8/10	9/8	10/8	11/6	12/6	406	1/4	2/3	3/5
18	406	4/3	5/3	6/2	7/1	7/30	8/29	9/27	10/26	11/25		12/24	405	1/23 2/22 3/22
19	405	4/21	5/21	6/19	7/19	8/17	9/16	10/15	11/13	12/13	404	1/11	2/10	3/12

ARTAXERXES II

1	404	4/10	5/10	6/9	7/8	8/7	9/5	10/5	11/3	12/2	403	1/1	1/30	3/1
2	403	3/30	4/29	5/29	6/27	7/27	8/26	9/24	10/24	11/22		12/22	402	1/20 2/18 3/20
3	402	4/18	5/18	6/16	7/16	8/15	9/13	10/13	11/12	12/11	401	1/10	2/8	3/8
4	401	4/7	5/6	6/5	7/4	8/3	9/1	10/1	10/31	11/30		12/29	400	1/28 2/26
5	400	3/27	4/26	5/25	6/23	7/23	8/21	9/20	10/20	11/19		12/19	399	1/17 2/16 3/17

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
6	399	4/15	5/15	6/13	7/12	8/11	9/9		10/9	11/8	12/8	398	1/6	2/5	3/7
7	398	4/5	5/4	6/3	7/2	7/31	8/30		9/28	10/28	11/27	12/26	397	1/25	2/24 3/24
8	397	4/23	5/22	6/21	7/20	8/18	9/17		10/17	11/15	12/15	396	1/13	2/12	3/13
9	396	4/12	5/12	6/10	7/10	8/8	9/7		10/6	11/5	12/4	395	1/3	2/1	3/2
10	395	4/1	5/1	5/30	6/29	7/29	8/27		9/26	10/25	11/24	12/23	394	1/21	2/20 3/21
11	394	4/20	5/19	6/18	7/18	8/17	9/15		10/15	11/14	12/13	393	1/11	2/9	3/10
12	393	4/8	5/7	6/6	7/6	8/5	9/4		10/3	11/2	12/1	12/31	392	1/29	2/27
13	392	3/29	4/27	5/26	6/25	7/25	8/23		9/22	10/22	11/21	12/20	391	1/19	2/17 3/18
14	391	4/17	5/16	6/14	7/14	8/13	9/11		10/11	11/10	12/9	390	1/8	2/6	3/8
15	390	4/6	5/6	6/4	7/4	8/2	9/1		9/30	10/30	11/28	12/28	389	1/27	2/25
16	389	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/16	12/16	388	1/15	2/13	3/15
17	388	4/14	5/13	6/12	7/11	8/10	9/8		10/7	11/6	12/5	387	1/4	2/2	3/4
18	387	4/3	5/2	6/1	7/1	7/30	8/29		9/27	10/26	11/25	12/24	386	1/23	2/21 3/23
19	386	4/21	5/21	6/20	7/20	8/18	9/17		10/16	11/14	12/14	385	1/12	2/11	3/11
20	385	4/10	5/9	6/8	7/8	8/6	9/5		10/4	11/3	12/3	384	1/1	1/30	3/1 3/30
21	384	4/29	5/28	6/27	7/26	8/25	9/24		10/23	11/22	12/21	383	1/20	2/19	3/20
22	383	4/18	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/11	382	1/10	2/8	3/10
23	382	4/8	5/7	6/5	7/5	8/3	9/2		10/1	10/31	11/30	12/30	381	1/28	2/27
24	381	3/27	4/26	5/25	6/23	7/23	8/21		9/20	10/19	11/18	12/18	380	1/17	2/15 3/17
25	380	4/15	5/15	6/13	7/12	8/11	9/9		10/9	11/7	12/7	379	1/6	2/4	3/6
26	379	4/5	5/4	6/3	7/2	7/31	8/30		9/29	10/28	11/27	12/26	378	1/24	2/23 3/25
27	378	4/23	5/23	6/21	7/21	8/19	9/18		10/18	11/16	12/16	377	1/14	2/12	3/13
28	377	4/11	5/11	6/9	7/9	8/8	9/7		10/6	11/5	12/4	376	1/2	2/1	3/2
29	376	4/1	4/30	5/29	6/28	7/28	8/27		9/26	10/25	11/24	12/23	375	1/21	2/20 3/21
30	375	4/19	5/19	6/17	7/17	8/16	9/15		10/15	11/13	12/13	374	1/11	2/9	3/11
31	374	4/9	5/8	6/7	7/6	8/5	9/4		10/4	11/2	12/2	12/31	373	1/30	2/28
32	373	3/29	4/27	5/26	6/25	7/24	8/23		9/22	10/21	11/20	12/20	372	1/18	2/17 3/18
33	372	4/17	5/16	6/14	7/14	8/12	9/11		10/11	11/9	12/9	371	1/7	2/6	3/8
34	371	4/6	5/6	6/4	7/4	8/2	9/1		9/30	10/29	11/28	12/27	370	1/26	2/25
35	370	3/26	4/25	5/25	6/23	7/23	8/21	9/20	10/19	11/17	12/17	369	1/15	2/14	3/14
36	369	4/13	5/13	6/11	7/11	8/9	9/8		10/7	11/6	12/5	368	1/4	2/2	3/4
37	368	4/2	5/2	5/31	6/30	7/30	8/29		9/27	10/26	11/25	12/24	367	1/23	2/21 3/22
38	367	4/21	5/21	6/19	7/19	8/18	9/16		10/16	11/14	12/14	366	1/12	2/11	3/12
39	366	4/10	5/10	6/8	7/8	8/7	9/5		10/5	11/4	12/3	365	1/2	1/31	3/1
40	365	3/30	4/28	5/28	6/26	7/26	8/24		9/23	10/23	11/21	12/21	364	1/20	2/18 3/20

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II		
41	364	4/18	5/17	6/16	7/15	8/13	9/12		10/12	11/10	12/10	363	1/9	2/8	3/9		
42	363	4/8	5/7	6/5	7/5	8/3	9/1		10/1	10/31	11/29		12/29	362	1/28	2/27	
43	362	3/28	4/27	5/26	6/24	7/24	8/22		9/21	10/20	11/19		12/18	361	1/17	2/16	3/16
44	361	4/15	5/14	6/13	7/12	8/11	9/9		10/9	11/7	12/7	360	1/5	2/4	3/5		
45	360	4/4	5/3	6/2	7/2	7/31	8/30		9/28	10/28	11/26		12/26	359	1/24	2/23	3/24
46	359	4/23	5/22	6/21	7/20	8/19	9/18		10/18	11/16	12/16	358	1/14	2/12	3/13		

ARTAXERXES III

1	358	4/12	5/11	6/10	7/9	8/8	9/7		10/7	11/6	12/5	357	1/3	2/2	3/2		
2	357	3/31	4/30	5/29	6/28	7/27	8/26		9/25	10/25	11/24		12/23	356	1/21	2/20	3/21
3	356	4/19	5/19	6/17	7/17	8/15	9/14		10/14	11/13	12/12	355	1/11	2/9	3/11		
4	355	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/2	12/1		12/31	354	1/29	2/28	
5	354	3/30	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20		12/20	353	1/18	2/17	3/18
6	353	4/16	5/16	6/15	7/14	8/12	9/11		10/10	11/9	12/8	352	1/7	2/5	3/7		
7	352	4/6	5/5	6/4	7/4	8/2	9/1		9/30	10/29	11/27		12/27	351	1/25	2/24	
8	351	3/26	4/24	5/24	6/23	7/23	8/21	9/20	10/19	11/17	12/16	350	1/15	2/13	3/15		
9	350	4/13	5/13	6/12	7/12	8/10	9/9		10/8	11/7	12/6	349	1/5	2/3	3/3		
10	349	4/2	5/1	5/31	6/30	7/29	8/28		9/27	10/26	11/25		12/24	348	1/23	2/21	3/22
11	348	4/21	5/20	6/19	7/18	8/17	9/16		10/15	11/14	12/14	347	1/12	2/11	3/12		
12	347	4/10	5/10	6/8	7/8	8/6	9/5		10/4	11/3	12/3	346	1/2	1/31	3/2		
13	346	3/31	4/29	5/29	6/27	7/26	8/25		9/23	10/23	11/22		12/22	345	1/20	2/19	3/20
14	345	4/18	5/17	6/16	7/15	8/13	9/12		10/11	11/10	12/10	344	1/8	2/7	3/9		
15	344	4/7	5/7	6/5	7/5	8/3	9/1		10/1	10/30	11/29		12/29	343	1/27	2/26	
16	343	3/27	4/26	5/26	6/24	7/24	8/22		9/21	10/20	11/19		12/18	342	1/17	2/15	3/17
17	342	4/15	5/15	6/13	7/13	8/12	9/10		10/10	11/8	12/8	341	1/6	2/4	3/5		
18	341	4/3	5/3	6/1	7/1	7/31	8/30		9/28	10/28	11/27		12/26	340	1/24	2/22	3/24
19	340	4/22	5/22	6/20	7/20	8/19	9/18		10/17	11/16	12/15	339	1/14	2/12	3/13		
20	339	4/12	5/11	6/9	7/9	8/8	9/7		10/7	11/5	12/5	338	1/3	2/2	3/3		
21	338	4/1	5/1	5/30	6/28	7/28	8/27		9/26	10/25	11/24		12/24	337	1/22	2/21	3/21

ARSES

1	337	4/19	5/19	6/17	7/16	8/15	9/14		10/13	11/12	12/12	336	1/10	2/9	3/10	
2	336	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/1	12/1		12/30	335	1/29	2/28

DARIUS III

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II	
1	335	3/29	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/19	334	1/18	2/17	3/18
2	334	4/17	5/17	6/15	7/15	8/13	9/12		10/11	11/9	12/9	333	1/7	2/6	3/6	
3	333	4/5	5/5	6/3	7/3	8/2	8/31		9/30	10/29	11/27	12/27	332	1/25	2/24	
4	332	3/25	4/24	5/23	6/22	7/22	8/21	9/19	10/19	11/17	12/16	331	1/15	2/13	3/15	
5	331	4/13	5/13	6/11	7/11	8/10	9/8		10/8	11/6	12/6	330	1/5	2/3	3/4	

ALEXANDER III

Year 6 of Alexander III = year 5 of Darius III

7	330	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/27	11/25	12/25	329	1/24	2/22	3/22
8	329	4/21	5/20	6/18	7/18	8/16	9/15		10/15	11/13	12/13	328	1/12	2/11	3/12	
9	328	4/10	5/10	6/8	7/7	8/6	9/4		10/4	11/2	12/2	327	1/1	1/31	3/1	
10	327	3/31	4/29	5/29	6/27	7/26	8/25		9/23	10/23	11/21	12/21	326	1/20	2/18	3/20
11	326	4/19	5/18	6/17	7/16	8/14	9/13		10/12	11/11	12/10	325	1/9	2/8	3/8	
12	325	4/7	5/6	6/5	7/4	8/3	9/1		10/1	10/31	11/29	12/28	324	1/27	2/25	
13	324	3/27	4/25	5/25	6/24	7/23	8/22		9/21	10/20	11/19	12/18	323	1/16	2/15	3/16
14	323	4/15	5/14	6/13	7/12	8/11	9/10		10/10	11/8	12/8	322	1/6	2/4	3/6	

PHILIP ARRHIDAEUS

Year 1 of Philip = year 14 of Alexander III

2	322	4/4	5/4	6/2	7/1	7/31	8/30		9/29	10/29	11/27	12/27	321	1/25	2/23	3/24
3	321	4/22	5/21	6/20	7/19	8/18	9/17		10/17	11/16	12/15	320	1/13	2/12	3/13	
4	320	4/12	5/11	6/9	7/9	8/7	9/6		10/6	11/5	12/4	319	1/3	2/1	3/3	
5	319	4/1	5/1	5/30	6/28	7/28	8/26		9/25	10/25	11/23	12/23	318	1/21	2/20	3/21
6	318	4/20	5/20	6/18	7/18	8/16	9/15		10/14	11/13	12/12	317	1/10	2/9	3/10	
7	317	4/8	5/8	6/7	7/6	8/5	9/3		10/3	11/1	11/30	12/30	316	1/28	2/27	
8	316	3/28	4/27	5/27	6/25	7/25	8/24		9/22	10/22	11/20	12/19	315	1/18	2/16	3/18

Years 1-6 of Antigonus as general = year 7 of Philip through year 5 of Alexander IV

ALEXANDER IV

Year 1 of Alexander IV = year 8 of Philip

2	315	4/16	5/16	6/15	7/14	8/13	9/12		10/11	11/10	12/9	314	1/7	2/6	3/7	
3	314	4/5	5/5	6/4	7/3	8/2	9/1		10/1	10/30	11/28	12/28	313	1/26	2/25	
4	313	3/25	4/23	5/23	6/22	7/21	8/20	9/19	10/18	11/17	12/16	312	1/15	2/13	3/15	
5	312	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/6	311	1/4	2/3	3/4	

Years 6-10 of Alexander IV = years 1-5 of Seleucid Era

SELEUCID ERA

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II	
1	311	4/3	5/2	5/31	6/30	7/29	8/28		9/26	10/26	11/25	12/24	310	1/23	2/22	3/23
2	310	4/22	5/21	6/19	7/19	8/17	9/16		10/15	11/14	12/13	309	1/12	2/11	3/12	
3	309	4/10	5/10	6/8	7/7	8/6	9/4		10/4	11/2	12/2	12/31	308	1/30	3/1	
4	308	3/30	4/29	5/29	6/27	7/26	8/25		9/23	10/23	11/21	12/21	307	1/19	2/18	3/19
5	307	4/18	5/18	6/16	7/16	8/14	9/13		10/12	11/11	12/10	306	1/9	2/7	3/9	
6	306	4/7	5/7	6/5	7/5	8/4	9/2		10/2	11/1	11/30	12/29	305	1/28	2/26	
7	305	3/26	4/25	5/24	6/23	7/23	8/21		9/20	10/20	11/19	12/18	304	1/16	2/15	3/16
8	304	4/14	5/14	6/12	7/12	8/10	9/9		10/9	11/8	12/8	303	1/6	2/4	3/6	
9	303	4/4	5/3	6/2	7/1	7/30	8/29		9/28	10/28	11/27	12/26	302	1/25	2/23	3/25
10	302	4/23	5/22	6/21	7/20	8/19	9/17		10/17	11/16	12/16	301	1/14	2/13	3/13	
11	301	4/12	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/4	300	1/2	2/1	3/2	
12	300	4/1	5/1	5/30	6/28	7/28	8/26		9/25	10/24	11/23	12/22	299	1/21	2/19	3/21
13	299	4/20	5/19	6/18	7/18	8/16	9/15		10/14	11/12	12/12	298	1/10	2/9	3/10	
14	298	4/9	5/8	6/7	7/7	8/6	9/4		10/4	11/2	12/1	12/30	297	1/29	2/27	
15	297	3/28	4/26	5/26	6/25	7/25	8/24		9/22	10/22	11/20	12/19	296	1/18	2/16	3/17
16	296	4/16	5/15	6/14	7/14	8/13	9/11		10/11	11/9	12/9	295	1/7	2/6	3/7	
17	295	4/5	5/5	6/3	7/3	8/1	8/31		9/30	10/30	11/28	12/28	294	1/26	2/25	
18	294	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/19	11/18	12/17	293	1/16	2/14	3/15	
19	293	4/13	5/12	6/11	7/10	8/9	9/7		10/7	11/5	12/5	292	1/4	2/2	3/4	
20	292	4/3	5/2	5/31	6/30	7/29	8/28		9/26	10/25	11/24	12/24	291	1/23	2/21	3/23
21	291	4/22	5/21	6/19	7/19	8/17	9/15		10/15	11/13	12/13	290	1/12	2/10	3/12	
22	290	4/11	5/10	6/9	7/8	8/7	9/5		10/5	11/3	12/3	289	1/1	1/31	2/29	
23	289	3/30	4/28	5/28	6/27	7/26	8/25		9/23	10/23	11/21	12/21	288	1/19	2/17	3/19
24	288	4/17	5/17	6/16	7/15	8/14	9/13		10/12	11/11	12/10	287	1/9	2/7	3/8	
25	287	4/7	5/6	6/5	7/4	8/3	9/2		10/2	10/31	11/30	12/29	286	1/28	2/26	
26	286	3/27	4/26	5/25	6/24	7/23	8/22		9/21	10/21	11/19	12/19	285	1/17	2/16	3/16
27	285	4/14	5/14	6/12	7/11	8/10	9/9		10/9	11/7	12/7	284	1/6	2/4	3/6	
28	284	4/4	5/3	6/2	7/1	7/30	8/29		9/28	10/28	11/26	12/26	283	1/24	2/23	3/25
29	283	4/23	5/22	6/21	7/20	8/19	9/17		10/17	11/15	12/15	282	1/13	2/12	3/14	
30	282	4/12	5/12	6/10	7/10	8/8	9/7		10/6	11/5	12/4	281	1/3	2/1	3/2	
31	281	3/31	4/30	5/29	6/28	7/28	8/26		9/25	10/24	11/23	12/22	280	1/20	2/19	3/20
32	280	4/19	5/19	6/17	7/17	8/16	9/15		10/14	11/12	12/12	279	1/10	2/8	3/10	
33	279	4/8	5/8	6/6	7/6	8/5	9/4		10/4	11/2	12/1	12/31	278	1/29	2/27	
34	278	3/29	4/27	5/27	6/25	7/25	8/24		9/23	10/22	11/21	12/20	277	1/19	2/17	3/17
35	277	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/8	276	1/7	2/6	3/7	

SELEUCID ERA

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II	
36	276	4/5	5/5	6/3	7/3	8/1	8/31	9/29	10/29	11/28	12/27	275	1/26	2/25	
37	275	3/26	4/24	5/24	6/22	7/22	8/20	9/18	10/18	11/17	12/16	274	1/15	2/14	3/15
38	274	4/14	5/13	6/12	7/11	8/10	9/8	10/7	11/6	12/5	273	1/4	2/3	3/4	
39	273	4/2	5/2	5/31	6/30	7/29	8/27	9/26	10/25	11/24	12/23	272	1/22	2/21	3/22
40	272	4/21	5/21	6/19	7/19	8/17	9/15	10/15	11/13	12/13	271	1/11	2/10	3/11	
41	271	4/10	5/10	6/8	7/8	8/6	9/5	10/5	11/3	12/3	270	1/1	1/30	3/1	
42	270	3/30	4/29	5/28	6/27	7/27	8/25	9/24	10/24	11/22	12/22	269	1/20	2/18	3/19
43	269	4/17	5/17	6/15	7/14	8/13	9/12	10/12	11/11	12/10	268	1/9	2/7	3/8	
44	268	4/7	5/6	6/4	7/4	8/2	9/1	10/1	10/31	11/29	12/29	267	1/28	2/26	
45	267	3/27	4/26	5/25	6/23	7/23	8/21	9/20	10/20	11/19	12/18	266	1/17	2/16	3/17
46	266	4/15	5/15	6/13	7/12	8/11	9/9	10/9	11/8	12/7	265	1/6	2/5	3/5	
47	265	4/4	5/3	6/2	7/1	7/30	8/29	9/28	10/27	11/26	12/25	264	1/24	2/22	3/24
48	264	4/23	5/22	6/21	7/20	8/18	9/17	10/17	11/15	12/14	263	1/13	2/11	3/13	
49	263	4/12	5/11	6/10	7/10	8/8	9/7	10/6	11/5	12/4	262	1/2	2/1	3/2	
50	262	4/1	4/30	5/30	6/29	7/29	8/27	9/26	10/25	11/24	12/23	261	1/21	2/20	3/20
51	261	4/18	5/18	6/17	7/17	8/15	9/14	10/14	11/12	12/12	260	1/10	2/8	3/10	
52	260	4/8	5/7	6/6	7/6	8/4	9/3	10/3	11/2	12/1	12/30	259	1/29	2/27	
53	259	3/29	4/27	5/26	6/25	7/25	8/23	9/22	10/22	11/20	12/20	258	1/18	2/17	3/18
54	258	4/17	5/16	6/14	7/14	8/12	9/11	10/11	11/9	12/9	257	1/8	2/6	3/7	
55	257	4/5	5/5	6/3	7/3	8/1	8/30	9/29	10/28	11/27	12/27	256	1/25	2/24	
56	256	3/26	4/24	5/24	6/22	7/22	8/20	9/19	10/18	11/16	12/16	255	1/14	2/13	3/15
57	255	4/14	5/13	6/12	7/11	8/10	9/8	10/7	11/6	12/5	254	1/4	2/2	3/4	
58	254	4/3	5/2	6/1	6/30	7/30	8/28	9/27	10/26	11/25	12/24	253	1/23	2/21	3/22
59	253	4/20	5/20	6/19	7/18	8/17	9/15	10/15	11/13	12/13	252	1/11	2/10	3/11	
60	252	4/9	5/9	6/8	7/7	8/6	9/5	10/4	11/3	12/3	251	1/1	1/30	3/1	
61	251	3/30	4/28	5/28	6/26	7/26	8/24	9/23	10/23	11/22	12/22	250	1/20	2/18	3/20
62	250	4/18	5/17	6/16	7/15	8/14	9/12	10/12	11/11	12/11	249	1/10	2/8	3/8	
63	249	4/7	5/6	6/4	7/4	8/2	9/1	9/30	10/30	11/29	12/29	248	1/27	2/26	
64	248	3/27	4/26	5/25	6/23	7/23	8/21	9/20	10/19	11/18	12/18	247	1/16	2/15	3/17
65	247	4/15	5/15	6/13	7/12	8/10	9/9	10/9	11/8	12/7	246	1/5	2/4	3/6	

Year 65 Seleucid era = year 1 Arsacid era

66	246	4/4	5/4	6/2	7/2	7/31	8/30	9/29	10/28	11/26	12/26	245	1/24	2/23	3/23
67	245	4/22	5/22	6/20	7/20	8/19	9/17	10/17	11/15	12/14	244	1/13	2/11	3/12	
68	244	4/11	5/11	6/9	7/9	8/8	9/7	10/6	11/5	12/4	243	1/2	2/1	3/2	
69	243	3/31	4/30	5/29	6/28	7/28	8/27	9/26	10/25	11/24	12/23	242	1/21	2/20	3/21
70	242	4/19	5/19	6/17	7/17	8/16	9/15	10/14	11/13	12/12	241	1/11	2/9	3/10	

SELEUCID ERA

Year 71 Selucid era = year 7 Arsacid era

YEAR B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
71	241	4/8	5/7	6/6	7/5	8/4	9/3	10/2	11/1	12/1	12/30	240	1/29	2/27
72	240	3/29	4/27	5/26	6/25	7/24	8/23	9/21	10/21	11/19	12/19	239	1/18	2/17 3/18
73	239	4/17	5/16	6/14	7/14	8/12	9/11	10/10	11/9	12/8	238	1/7	2/6	3/7
74	238	4/6	5/6	6/4	7/4	8/2	8/31	9/30	10/29	11/27	12/27	237	1/26	2/24
75	237	3/25	4/24	5/23	6/22	7/22	8/20	9/18	10/18	11/16	12/15	236	1/14	2/13 3/14
76	236	4/13	5/13	6/11	7/11	8/9	9/8	10/7	11/6	12/5	235	1/4	2/2	3/3
77	235	4/2	5/2	5/31	6/30	7/30	8/28	9/27	10/26	11/25	12/24	234	1/23	2/21 3/22
78	234	4/21	5/20	6/19	7/18	8/17	9/16	10/16	11/14	12/14	233	1/12	2/11	3/11
79	233	4/9	5/9	6/7	7/7	8/5	9/4	10/4	11/3	12/2	232	1/1	1/30	3/1
80	232	3/30	4/28	5/28	6/26	7/25	8/24	9/23	10/23	11/21	12/21	231	1/20	2/18 3/20
81	231	4/18	5/17	6/16	7/15	8/13	9/12	10/12	11/11	12/10	230	1/9	2/8	3/9
82	230	4/8	5/7	6/5	7/5	8/3	9/1	10/1	10/31	11/29	12/29	229	1/28	2/26
83	229	3/27	4/25	5/25	6/23	7/23	8/21	9/20	10/19	11/18	12/17	228	1/16	2/14 3/16
84	228	4/15	5/14	6/13	7/12	8/11	9/9	10/9	11/7	12/7	227	1/5	2/3	3/5
85	227	4/4	5/3	6/2	7/1	7/31	8/30	9/29	10/28	11/26	12/26	226	1/24	2/22 3/24
86	226	4/22	5/22	6/21	7/20	8/19	9/18	10/18	11/16	12/15	225	1/14	2/12	3/12
87	225	4/11	5/10	6/9	7/8	8/7	9/6	10/6	11/5	12/4	224	1/2	2/1	3/2
88	224	3/31	4/30	5/29	6/28	7/27	8/26	9/25	10/25	11/23	12/23	223	1/21	2/20 3/21
89	223	4/19	5/19	6/17	7/17	8/15	9/14	10/14	11/12	12/12	222	1/10	2/9	3/11
90	222	4/9	5/8	6/7	7/6	8/5	9/3	10/3	11/1	12/1	12/30	221	1/29	2/28
91	221	3/28	4/27	5/26	6/25	7/24	8/23	9/21	10/20	11/19	12/19	220	1/17	2/16 3/18
92	220	4/16	5/16	6/14	7/14	8/12	9/11	10/10	11/8	12/8	219	1/6	2/5	3/7
93	219	4/5	5/5	6/4	7/3	8/2	8/31	9/29	10/29	11/28	12/27	218	1/25	2/24
94	218	3/25	4/24	5/24	6/23	7/22	8/21	9/19	10/19	11/17	12/16	217	1/15	2/13 3/14
95	217	4/12	5/12	6/11	7/10	8/9	9/7	10/7	11/6	12/5	216	1/4	2/2	3/3
96	216	4/2	5/1	5/31	6/29	7/29	8/27	9/26	10/26	11/25	12/24	215	1/23	2/21 3/22
97	215	4/21	5/20	6/18	7/18	8/16	9/15	10/15	11/14	12/14	214	1/12	2/11	3/12
98	214	4/10	5/10	6/8	7/7	8/6	9/4	10/4	11/3	12/3	213	1/2	1/31	3/1
99	213	3/30	4/28	5/28	6/26	7/25	8/24	9/22	10/22	11/21	12/21	212	1/19	2/18 3/19
100	212	4/18	5/17	6/16	7/15	8/13	9/12	10/11	11/10	12/10	211	1/8	2/7	3/9
101	211	4/7	5/7	6/5	7/5	8/3	9/1	10/1	10/31	11/29	12/29	210	1/27	2/26
102	210	3/27	4/26	5/25	6/24	7/23	8/22	9/21	10/20	11/19	12/18	209	1/16	2/15 3/15
103	209	4/14	5/13	6/12	7/12	8/11	9/9	10/9	11/7	12/6	208	1/5	2/3	3/5
104	208	4/3	5/3	6/1	7/1	7/31	8/30	9/28	10/28	11/26	12/26	207	1/24	2/22 3/24
105	207	4/22	5/21	6/20	7/20	8/19	9/18	10/17	11/16	12/15	206	1/14	2/12	3/13

SELEUCID ERA

Year 106 Seleucid era = year 42 Arsacid era

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
106	206	4/12	5/11	6/9	7/9	8/8	9/7		10/6	11/5	12/5	205	1/3	2/1	3/2
107	205	3/31	4/30	5/29	6/27	7/27	8/26		9/24	10/24	11/23	12/22	204	1/21	2/19 3/21
108	204	4/19	5/19	6/17	7/17	8/15	9/14		10/13	11/12	12/11	203	1/10	2/9	3/10
109	203	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/1	11/30	12/30	202	1/28	2/27
110	202	3/29	4/27	5/27	6/26	7/25	8/24		9/22	10/21	11/20	12/19	201	1/18	2/16 3/17
111	201	4/16	5/15	6/14	7/14	8/12	9/11		10/10	11/8	12/8	200	1/6	2/5	3/6
112	200	4/5	5/4	6/3	7/3	8/2	8/31		9/30	10/29	11/27	12/27	199	1/25	2/24
113	199	3/25	4/24	5/23	6/22	7/22	8/20	9/19	10/18	11/17	12/16	198	1/15	2/13	3/15
114	198	4/13	5/12	6/11	7/11	8/9	9/8		10/8	11/6	12/6	197	1/4	2/3	3/3
115	197	4/2	5/1	5/30	6/29	7/28	8/27		9/25	10/25	11/24	12/24	196	1/23	2/21 3/22
116	196	4/21	5/20	6/18	7/18	8/16	9/15		10/14	11/13	12/13	195	1/12	2/10	3/12
117	195	4/10	5/10	6/8	7/7	8/6	9/4		10/4	11/2	12/2	194	1/1	1/31	3/1
118	194	3/31	4/29	5/29	6/27	7/26	8/25		9/23	10/23	11/21	12/21	193	1/20	2/18 3/19
119	193	4/17	5/17	6/15	7/15	8/13	9/12		10/11	11/10	12/10	192	1/8	2/6	3/8
120	192	4/6	5/6	6/5	7/4	8/3	9/1		10/1	10/31	11/29	12/28	191	1/27	2/25
121	191	3/27	4/25	5/25	6/23	7/23	8/22		9/21	10/20	11/19	12/18	190	1/16	2/15 3/16
122	190	4/14	5/14	6/12	7/12	8/11	9/10		10/10	11/8	12/8	189	1/6	2/4	3/5
123	189	4/3	5/2	6/1	6/30	7/30	8/29		9/28	10/28	11/26	12/26	188	1/24	2/22 3/24
124	188	4/22	5/21	6/20	7/19	8/18	9/17		10/17	11/15	12/15	187	1/13	2/12	3/13
125	187	4/12	5/11	6/9	7/9	8/7	9/6		10/6	11/4	12/4	186	1/2	2/1	3/3
126	186	4/1	5/1	5/30	6/28	7/28	8/26		9/25	10/24	11/23	12/22	185	1/21	2/20 3/20
127	185	4/19	5/19	6/17	7/17	8/15	9/13		10/13	11/11	12/11	184	1/9	2/8	3/10
128	184	4/8	5/8	6/7	7/6	8/5	9/3		10/2	11/1	11/30	12/29	183	1/28	2/27
129	183	3/28	4/27	5/27	6/25	7/25	8/24		9/22	10/21	11/20	12/19	182	1/17	2/16 3/17
130	182	4/16	5/16	6/14	7/14	8/13	9/11		10/11	11/9	12/9	181	1/7	2/6	3/6
131	181	4/4	5/4	6/2	7/2	8/1	8/31		9/29	10/29	11/27	12/27	180	1/25	2/24
132	180	3/25	4/24	5/23	6/21	7/21	8/19	9/18	10/18	11/17	12/16	179	1/15	2/13	3/15
133	179	4/13	5/12	6/11	7/10	8/9	9/7		10/7	11/6	12/5	178	1/4	2/3	3/4
134	178	4/3	5/2	5/31	6/30	7/29	8/27		9/26	10/26	11/24	12/24	177	1/23	2/22 3/22
135	177	4/21	5/20	6/18	7/18	8/16	9/14		10/14	11/13	12/12	176	1/11	2/10	3/11
136	176	4/10	5/10	6/8	7/7	8/6	9/4		10/3	11/2	12/2	12/31	175	1/30	2/28
137	175	3/30	4/29	5/28	6/27	7/26	8/25		9/23	10/23	11/21	12/21	174	1/19	2/18 3/19
138	174	4/18	5/18	6/16	7/16	8/14	9/13		10/12	11/11	12/10	173	1/9	2/7	3/7
139	173	4/6	5/5	6/4	7/4	8/2	9/1		10/1	10/31	11/29	12/28	172	1/27	2/25
140	172	3/26	4/25	5/24	6/23	7/22	8/21		9/20	10/20	11/19	12/18	171	1/16	2/15 3/16

SELEUCID ERA

Year 141 Seleucid era = year 77 Arsacid era

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
141	171	4/14	5/14	6/12	7/12	8/10	9/9		10/9	11/8	12/7	170	1/6	2/4	3/6
142	170	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/28	11/27	12/26	169	1/25	2/23 3/24
143	169	4/22	5/21	6/20	7/19	8/18	9/17		10/16	11/15	12/14	168	1/13	2/11	3/13
144	168	4/11	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	167	1/2	2/1	3/2
145	167	4/1	4/30	5/30	6/28	7/28	8/26		9/25	10/24	11/22	12/22	166	1/20	2/19 3/21
146	166	4/20	5/19	6/18	7/17	8/16	9/14		10/14	11/12	12/11	165	1/10	2/8	3/9
147	165	4/8	5/7	6/6	7/6	8/4	9/3		10/2	10/31	11/30	12/29	164	1/28	2/26
148	164	3/28	4/26	5/26	6/25	7/25	8/23		9/22	10/21	11/20	12/19	163	1/17	2/16 3/17
149	163	4/16	5/15	6/14	7/13	8/12	9/11		10/10	11/9	12/9	162	1/7	2/6	3/7
150	162	4/5	5/5	6/3	7/3	8/1	8/31		9/29	10/29	11/28	12/28	161	1/26	2/25
151	161	3/25	4/23	5/23	6/21	7/20	8/19	9/18	10/17	11/16	12/16	160	1/15	2/13	3/15
152	160	4/13	5/12	6/11	7/10	8/8	9/7		10/6	11/5	12/5	159	1/4	2/2	3/4
153	159	4/3	5/2	5/31	6/30	7/29	8/27		9/26	10/25	11/24	12/24	158	1/22	2/21 3/23
154	158	4/21	5/21	6/19	7/19	8/17	9/15		10/15	11/13	12/13	157	1/12	2/10	3/11
155	157	4/9	5/9	6/8	7/7	8/5	9/4		10/4	11/2	12/2	12/31	156	1/29	2/28
156	156	3/29	4/28	5/28	6/26	7/26	8/24		9/23	10/23	11/21	12/21	155	1/19	2/17 3/19
157	155	4/17	5/17	6/15	7/15	8/14	9/13		10/12	11/11	12/10	154	1/9	2/7	3/8
158	154	4/7	5/6	6/4	7/4	8/3	9/2		10/2	10/31	11/30	12/29	153	1/28	2/26
159	153	3/26	4/25	5/24	6/22	7/22	8/21		9/20	10/19	11/18	12/18	152	1/16	2/15 3/16
160	152	4/14	5/14	6/12	7/11	8/10	9/9		10/9	11/7	12/7	151	1/5	2/4	3/5
161	151	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/26	12/25	150	1/24	2/23 3/24
162	150	4/23	5/22	6/21	7/20	8/19	9/17		10/17	11/15	12/14	149	1/13	2/12	3/12
163	149	4/11	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	148	1/1	1/31	3/1
164	148	3/31	4/29	5/29	6/28	7/28	8/26		9/25	10/24	11/22	12/22	147	1/20	2/19 3/20
165	147	4/19	5/19	6/17	7/17	8/16	9/14		10/14	11/12	12/11	146	1/10	2/8	3/10
166	146	4/8	5/8	6/6	7/6	8/5	9/4		10/3	11/2	12/1	12/30	145	1/29	2/27
167	145	3/28	4/26	5/25	6/24	7/24	8/23		9/21	10/21	11/19	12/19	144	1/17	2/16 3/17
168	144	4/16	5/15	6/13	7/13	8/12	9/10		10/10	11/8	12/8	143	1/7	2/6	3/7
169	143	4/5	5/5	6/3	7/2	8/1	8/30		9/29	10/28	11/27	12/27	142	1/26	2/24
170	142	3/26	4/24	5/24	6/22	7/21	8/20	9/18	10/18	11/16	12/16	141	1/15	2/14	3/14
171	141	4/13	5/12	6/11	7/10	8/8	9/7		10/6	11/5	12/4	140	1/3	2/2	3/3
172	140	4/2	5/2	5/31	6/30	7/29	8/27		9/26	10/25	11/24	12/23	139	1/22	2/20 3/22
173	139	4/21	5/20	6/19	7/18	8/17	9/15		10/15	11/13	12/13	138	1/11	2/10	3/11
174	138	4/10	5/9	6/8	7/8	8/6	9/5		10/5	11/3	12/3	137	1/1	1/30	2/29
175	137	3/29	4/27	5/27	6/26	7/25	8/24		9/23	10/23	11/21	12/20	136	1/19	2/17 3/19

SELEUCID ERA

Year 176 Seleucid era = year 112 Arsacid era

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
176	136	4/17	5/16	6/15	7/14	8/13	9/12		10/12	11/11	12/10	135	1/9	2/7	3/8
177	135	4/7	5/6	6/4	7/4	8/2	9/1		10/1	10/31	11/30	12/29	134	1/27	2/26
178	134	3/27	4/25	5/25	6/23	7/23	8/21		9/20	10/20	11/19	12/18	133	1/17	2/15 3/16
179	133	4/14	5/14	6/12	7/11	8/10	9/8		10/8	11/7	12/6	132	1/5	2/3	3/5
180	132	4/4	5/3	6/2	7/1	7/31	8/29		9/28	10/27	11/25	12/25	131	1/23	2/22 3/24
181	131	4/22	5/22	6/21	7/20	8/19	9/17		10/17	11/15	12/14	130	1/13	2/11	3/13
182	130	4/11	5/11	6/10	7/10	8/8	9/7		10/6	11/5	12/4	129	1/2	1/31	3/1
183	129	3/31	4/29	5/29	6/28	7/27	8/26		9/25	10/24	11/22	12/22	128	1/20	2/18 3/20
184	128	4/18	5/18	6/17	7/16	8/15	9/14		10/13	11/12	12/11	127	1/10	2/8	3/10
185	127	4/8	5/7	6/6	7/5	8/4	9/3		10/3	11/1	12/1	12/30	126	1/29	2/27
186	126	3/29	4/27	5/26	6/25	7/24	8/23		9/21	10/21	11/20	12/20	125	1/18	2/17 3/17
187	125	4/16	5/15	6/13	7/13	8/11	9/10		10/9	11/8	12/8	124	1/6	2/5	3/7
188	124	4/5	5/5	6/3	7/2	8/1	8/30		9/28	10/28	11/27	12/26	123	1/25	2/24
189	123	3/26	4/24	5/24	6/22	7/21	8/20	9/18	10/17	11/16	12/16	122	1/14	2/13	3/15
190	122	4/13	5/13	6/11	7/11	8/9	9/8		10/7	11/6	12/5	121	1/4	2/2	3/3
191	121	4/1	5/1	5/31	6/29	7/29	8/27		9/26	10/25	11/24	12/23	120	1/22	2/20 3/21
192	120	4/20	5/20	6/18	7/18	8/16	9/15		10/15	11/13	12/13	119	1/11	2/10	3/11
193	119	4/9	5/9	6/7	7/7	8/5	9/4		10/4	11/3	12/3	118	1/1	1/30	3/1
194	118	3/30	4/28	5/28	6/26	7/26	8/24		9/23	10/23	11/22	12/22	117	1/20	2/18 3/19
195	117	4/17	5/16	6/14	7/14	8/12	9/11		10/11	11/10	12/10	116	1/8	2/7	3/8
196	116	4/7	5/6	6/4	7/3	8/2	9/1		9/30	10/30	11/29	12/28	115	1/27	2/26
197	115	3/27	4/26	5/25	6/23	7/23	8/21		9/20	10/19	11/18	12/17	114	1/16	2/15 3/16
198	114	4/15	5/14	6/13	7/12	8/11	9/9		10/9	11/7	12/7	113	1/5	2/4	3/4
199	113	4/3	5/2	6/1	7/1	7/30	8/29		9/28	10/27	11/25	12/24	112	1/23	2/21 3/23
200	112	4/22	5/21	6/20	7/20	8/19	9/17		10/17	11/15	12/14	111	1/12	2/11	3/12
201	111	4/11	5/10	6/9	7/9	8/8	9/7		10/6	11/5	12/4	110	1/2	2/1	3/2
202	110	3/31	4/30	5/29	6/28	7/28	8/27		9/25	10/25	11/23	12/23	109	1/21	2/19 3/20
203	109	4/18	5/18	6/16	7/16	8/15	9/13		10/13	11/11	12/11	108	1/10	2/8	3/10
204	108	4/8	5/7	6/6	7/5	8/4	9/2		10/2	10/31	11/30	12/30	107	1/29	2/27
205	107	3/29	4/27	5/26	6/25	7/24	8/23		9/21	10/20	11/19	12/19	106	1/18	2/16 3/18
206	106	4/17	5/16	6/14	7/14	8/12	9/10		10/10	11/8	12/8	105	1/7	2/5	3/6
207	105	4/5	5/4	6/3	7/2	8/1	8/30		9/28	10/28	11/26	12/26	104	1/24	2/23
208	104	3/25	4/24	5/23	6/22	7/21	8/20	9/18	10/17	11/16	12/15	103	1/14	2/12	3/14
209	103	4/13	5/12	6/11	7/10	8/9	9/8		10/7	11/6	12/5	102	1/4	2/2	3/3
210	102	4/2	5/1	5/31	6/29	7/29	8/28		9/27	10/26	11/25	12/24	101	1/23	2/21 3/21

SELEUCID ERA

Year 211 Seleucid era = year 147 Arsacid era

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
211	101	4/20	5/19	6/18	7/17	8/16	9/15		10/15	11/13	12/13	100	1/11	2/10	3/11
212	100	4/9	5/9	6/7	7/6	8/5	9/4		10/4	11/3	12/2	99	1/1	1/30	3/1
213	99	3/30	4/28	5/27	6/26	7/25	8/24		9/23	10/23	11/21	12/21	98	1/20	2/18 3/20
214	98	4/18	5/17	6/15	7/15	8/14	9/12		10/12	11/10	12/10	97	1/9	2/7	3/8
215	97	4/6	5/6	6/4	7/3	8/2	8/31		9/30	10/30	11/28	12/28	96	1/26	2/25
216	96	3/27	4/25	5/25	6/23	7/23	8/21		9/20	10/19	11/18	12/17	95	1/15	2/14 3/16
217	95	4/14	5/14	6/13	7/12	8/11	9/9		10/9	11/7	12/6	94	1/5	2/3	3/5
218	94	4/3	5/3	6/2	7/1	7/31	8/30		9/29	10/28	11/26	12/25	93	1/24	2/22 3/23
219	93	4/21	5/21	6/19	7/19	8/18	9/17		10/16	11/15	12/14	92	1/12	2/11	3/12
220	92	4/11	5/10	6/9	7/8	8/7	9/6		10/6	11/4	12/4	91	1/2	1/31	3/2
221	91	3/31	4/30	5/29	6/28	7/27	8/26		9/25	10/24	11/23	12/22	90	1/21	2/19 3/21
222	90	4/19	5/19	6/17	7/16	8/15	9/14		10/13	11/12	12/11	89	1/10	2/9	3/9
223	89	4/8	5/7	6/6	7/5	8/3	9/2		10/1	10/31	11/29	12/29	88	1/28	2/27
224	88	3/28	4/27	5/26	6/25	7/24	8/22		9/21	10/20	11/19	12/18	87	1/17	2/16 3/17
225	87	4/16	5/16	6/14	7/14	8/12	9/10		10/10	11/8	12/8	86	1/6	2/5	3/7
226	86	4/5	5/5	6/4	7/3	8/2	8/31		9/29	10/29	11/27	12/27	85	1/25	2/24
227	85	3/24	4/23	5/23	6/21	7/21	8/19	9/18	10/17	11/16	12/15	84	1/14	2/12	3/14
228	84	4/12	5/12	6/10	7/10	8/9	9/7		10/7	11/6	12/5	83	1/4	2/2	3/3
229	83	4/2	5/1	5/30	6/29	7/28	8/27		9/26	10/26	11/25	12/24	82	1/23	2/21 3/22
230	82	4/21	5/20	6/18	7/18	8/16	9/15		10/15	11/14	12/14	81	1/12	2/11	3/11
231	81	4/9	5/9	6/7	7/6	8/5	9/3		10/3	11/2	12/2	12/31	80	1/30	2/28
232	80	3/30	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/21	12/20	79	1/19	2/18 3/19
233	79	4/18	5/17	6/15	7/15	8/13	9/12		10/12	11/10	12/10	78	1/8	2/7	3/8
234	78	4/7	5/6	6/5	7/4	8/3	9/2		10/1	10/31	11/29	12/28	77	1/27	2/25
235	77	3/26	4/25	5/24	6/23	7/22	8/21		9/20	10/19	11/18	12/17	76	1/15	2/14 3/15
236	76	4/14	5/13	6/12	7/12	8/11	9/9		10/9	11/7	12/6	75	1/5	2/3	3/4
237	75	4/3	5/2	6/1	7/1	7/31	8/29		9/28	10/28	11/26	12/25	74	1/24	2/22 3/23
238	74	4/22	5/21	6/20	7/20	8/18	9/17		10/17	11/15	12/15	73	1/13	2/12	3/12
239	73	4/11	5/10	6/8	7/8	8/7	9/5		10/5	11/4	12/3	72	1/2	1/31	3/2
240	72	3/31	4/30	5/29	6/27	7/27	8/25		9/24	10/23	11/22	12/22	71	1/20	2/19 3/21
241	71	4/19	5/19	6/17	7/16	8/15	9/13		10/13	11/11	12/11	70	1/9	2/8	3/10
242	70	4/9	5/8	6/7	7/6	8/4	9/3		10/2	10/31	11/30	12/30	69	1/28	2/27
243	69	3/28	4/26	5/26	6/25	7/24	8/22		9/21	10/20	11/18	12/18	68	1/16	2/15 3/17
244	68	4/15	5/15	6/14	7/13	8/12	9/10		10/10	11/8	12/8	67	1/6	2/5	3/6
245	67	4/5	5/4	6/3	7/3	8/1	8/31		9/29	10/29	11/27	12/27	66	1/25	2/24

SELEUCID ERA

Year 246 Seleucid era = year 182 Arsacid era

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
246	66	3/25	4/23	5/23	6/21	7/21	8/20	9/18	10/18	11/17	12/16	65	1/15	2/13	3/14
247	65	4/12	5/11	6/10	7/9	8/8	9/6		10/6	11/5	12/5	64	1/4	2/2	3/3
248	64	4/2	5/1	5/30	6/28	7/28	8/27		9/25	10/25	11/24	12/24	63	1/22	2/21 3/22
249	63	4/21	5/20	6/18	7/17	8/16	9/15		10/14	11/13	12/13	62	1/12	2/10	3/12
250	62	4/10	5/10	6/8	7/7	8/5	9/4		10/4	11/2	12/2	61	1/1	1/30	2/28
251	61	3/29	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/20	60	1/18	2/17 3/18
252	60	4/17	5/17	6/15	7/15	8/13	9/12		10/12	11/10	12/9	59	1/8	2/6	3/8
253	59	4/6	5/6	6/4	7/4	8/3	9/2		10/1	10/30	11/29	12/28	58	1/26	2/25
254	58	3/26	4/25	5/24	6/23	7/23	8/22		9/21	10/20	11/19	12/18	57	1/16	2/14 3/15
255	57	4/13	5/13	6/11	7/11	8/10	9/9		10/9	11/7	12/6	56	1/5	2/3	3/4
256	56	4/3	5/2	6/1	6/30	7/30	8/29		9/28	10/27	11/26	12/25	55	1/24	2/22 3/24
257	55	4/22	5/21	6/20	7/19	8/18	9/17		10/16	11/15	12/14	54	1/13	2/12	3/13
258	54	4/12	5/11	6/9	7/9	8/7	9/6		10/5	11/4	12/3	53	1/2	2/1	3/1
259	53	3/31	4/30	5/29	6/27	7/27	8/25		9/24	10/23	11/21	12/21	52	1/20	2/19 3/20
260	52	4/19	5/18	6/17	7/16	8/15	9/13		10/12	11/11	12/10	51	1/9	2/8	3/9
261	51	4/8	5/8	6/6	7/6	8/4	9/3		10/2	10/31	11/30	12/29	50	1/28	2/27
262	50	3/28	4/27	5/26	6/25	7/25	8/23		9/22	10/21	11/19	12/19	49	1/17	2/16 3/16
263	49	4/15	5/14	6/13	7/13	8/11	9/10		10/10	11/8	12/8	48	1/6	2/5	3/6
264	48	4/4	5/4	6/2	7/2	7/31	8/30		9/29	10/28	11/27	12/27	47	1/25	2/24
265	47	3/25	4/23	5/23	6/21	7/20	8/19 9/18		10/18	11/17	12/16	46	1/15	2/13	3/15
266	46	4/13	5/12	6/10	7/10	8/8	9/7		10/7	11/6	12/5	45	1/4	2/3	3/3
267	45	4/2	5/1	5/30	6/28	7/28	8/26		9/25	10/25	11/23	12/23	44	1/22	2/20 3/22
268	44	4/20	5/20	6/18	7/17	8/16	9/14		10/14	11/13	12/12	43	1/11	2/9	3/11
269	43	4/10	5/9	6/8	7/7	8/6	9/4		10/4	11/2	12/2	12/31	42	1/30	2/28
270	42	3/30	4/28	5/28	6/27	7/26	8/25		9/23	10/23	11/21	12/21	41	1/19	2/17 3/18
271	41	4/16	5/16	6/15	7/14	8/13	9/12		10/12	11/10	12/9	40	1/7	2/6	3/7
272	40	4/6	5/5	6/4	7/3	8/2	9/1		10/1	10/31	11/29	12/28	39	1/26	2/25
273	39	3/26	4/25	5/24	6/23	7/22	8/21		9/20	10/20	11/18	12/18	38	1/16	2/14 3/16
274	38	4/14	5/13	6/12	7/12	8/10	9/9		10/9	11/8	12/7	37	1/6	2/4	3/4
275	37	4/3	5/2	6/1	6/30	7/30	8/28		9/27	10/26	11/25	12/25	36	1/23	2/22 3/23
276	36	4/22	5/21	6/20	7/19	8/18	9/16		10/16	11/14	12/14	35	1/12	2/11	3/13
277	35	4/11	5/11	6/9	7/9	8/7	9/6		10/5	11/3	12/3	34	1/1	1/31	3/2
278	34	4/1	4/30	5/30	6/28	7/28	8/26		9/25	10/24	11/22	12/22	33	1/20	2/19 3/20
279	33	4/18	5/18	6/17	7/16	8/15	9/13		10/12	11/11	12/10	32	1/9	2/7	3/9
280	32	4/7	5/7	6/6	7/5	8/4	9/3		10/2	10/31	11/30	12/29	31	1/28	2/26

SELEUCID ERA

Year 281 Seleucid era = year 217 Arsacid era

YEAR	B.C.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
281	31	3/28	4/26	5/26	6/24	7/24	8/23		9/21	10/20	11/19	12/19	30	1/17	2/16 3/17
282	30	4/16	5/15	6/14	7/13	8/12	9/10		10/10	11/9	12/9	29	1/7	2/6	3/6
283	29	4/4	5/4	6/2	7/1	7/31	8/29		9/28	10/28	11/27	12/27	28	1/25	2/24
284	28	3/25	4/23	5/23	6/21	7/20	8/19	9/17	10/17	11/16	12/16	27	1/14	2/13	3/14
285	27	4/13	5/12	6/10	7/10	8/8	9/7		10/6	11/5	12/5	26	1/3	2/2	3/4
286	26	4/2	5/2	5/31	6/29	7/29	8/27		9/26	10/25	11/24	12/24	25	1/22	2/21 3/21
287	25	4/20	5/20	6/18	7/17	8/16	9/14		10/14	11/13	12/12	24	1/10	2/9	3/10
288	24	4/9	5/9	6/7	7/7	8/5	9/4		10/4	11/2	12/1	12/31	23	1/29	2/28
289	23	3/29	4/28	5/27	6/26	7/26	8/24		9/23	10/23	11/21	12/21	22	1/19	2/17 3/18
290	22	4/17	5/16	6/15	7/15	8/14	9/13		10/12	11/11	12/10	21	1/8	2/7	3/7
291	21	4/5	5/5	6/3	7/3	8/2	9/1		10/1	10/30	11/29	12/28	20	1/26	2/25
292	20	3/26	4/24	5/24	6/22	7/22	8/21		9/20	10/19	11/18	12/17	19	1/16	2/14 3/16
293	19	4/14	5/13	6/12	7/11	8/10	9/9		10/8	11/7	12/7	18	1/5	2/4	3/5
294	18	4/4	5/3	6/2	7/1	7/30	8/29		9/27	10/27	11/25	12/25	17	1/24	2/22 3/23
295	17	4/22	5/21	6/20	7/19	8/18	9/16		10/15	11/14	12/13	16	1/12	2/10	3/12
296	16	4/11	5/11	6/9	7/9	8/7	9/6		10/5	11/3	12/3	15	1/1	1/31	3/1
297	15	3/31	4/30	5/29	6/28	7/28	8/26		9/25	10/24	11/22	12/22	14	1/20	2/19 3/20
298	14	4/19	5/18	6/17	7/17	8/15	9/14		10/13	11/12	12/11	13	1/10	2/8	3/8
299	13	4/7	5/6	6/5	7/5	8/4	9/2		10/2	10/31	11/30	12/29	12	1/28	2/26
300	12	3/28	4/26	5/26	6/24	7/23	8/22		9/21	10/20	11/19	12/19	11	1/17	2/16 3/17
301	11	4/16	5/15	6/13	7/13	8/11	9/10		10/9	11/8	12/8	10	1/7	2/5	3/7
302	10	4/5	5/4	6/3	7/2	7/31	8/30		9/29	10/28	11/27	12/27	9	1/26	2/24
303	9	3/25	4/23	5/23	6/21	7/20	8/18	9/17	10/17	11/15	12/15	8	1/14	2/12	3/14
304	8	4/13	5/12	6/10	7/10	8/8	9/7		10/6	11/4	12/4	7	1/3	2/1	3/3
305	7	4/2	5/1	5/31	6/29	7/29	8/27		9/26	10/25	11/24	12/23	6	1/22	2/20 3/22
306	6	4/20	5/20	6/19	7/18	8/17	9/15		10/15	11/14	12/13	5	1/11	2/10	3/10
307	5	4/8	5/8	6/7	7/6	8/5	9/4		10/4	11/2	12/2	12/31	4	1/29	2/27
308	4	3/29	4/27	5/27	6/25	7/25	8/24		9/23	10/23	11/21	12/21	3	1/19	2/17 3/18
309	3	4/17	5/16	6/15	7/14	8/13	9/12		10/12	11/11	12/10	2	1/8	2/7	3/8
310	2	4/6	5/6	6/4	7/4	8/2	9/1		10/1	10/31	11/29	12/29	1	1/27	2/26
311	1	3/26	4/24	5/24	6/22	7/22	8/20		9/19	10/19	11/17	12/17	1	1/15	2/14 3/16
312	A.D.	1	4/14	5/13	6/12	7/11	8/10	9/9	10/8	11/6	12/6	2	1/4	2/3	3/5
313	2	4/3	5/3	6/2	7/1	7/30	8/29		9/27	10/27	11/25	12/24	3	1/23	2/22 3/23
314	3	4/22	5/22	6/20	7/20	8/18	9/17		10/16	11/15	12/14	4	1/12	2/11	3/12
315	4	4/10	5/10	6/9	7/8	8/7	9/6		10/5	11/3	12/2	5	1/1	1/30	3/1

SELEUCID ERA

Year 316 Seleucid era = year 252 Arsacid era

YEAR A.D.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
316	5	3/30	4/29	5/29	6/27	7/27	8/26	9/24	10/24	11/22	12/22	6	1/20	2/18 3/20
317	6	4/18	5/18	6/16	7/16	8/15	9/13	10/13	11/12	12/11	7	1/10	2/8	3/10
318	7	4/8	5/7	6/6	7/6	8/4	9/2	10/2	11/1	12/1	12/30	8	1/29	2/27
319	8	3/28	4/26	5/25	6/24	7/23	8/21	9/20	10/20	11/19	12/18	9	1/17	2/16 3/17
320	9	4/16	5/15	6/13	7/12	8/11	9/9	10/9	11/8	12/7	10	1/6	2/5	3/7
321	10	4/5	5/5	6/3	7/2	8/1	8/30	9/28	10/28	11/27	12/26	11	1/25	2/24
322	11	3/25	4/23	5/23	6/22	7/21	8/19	9/18	10/17	11/16	12/16	12	1/14	2/13 3/13
323	12	4/12	5/12	6/10	7/10	8/8	9/7	10/6	11/5	12/4	13	1/3	2/1	3/3
324	13	4/1	5/1	5/30	6/29	7/28	8/27	9/26	10/25	11/24	12/23	14	1/21	2/20 3/21
325	14	4/20	5/19	6/18	7/18	8/16	9/15	10/15	11/14	12/13	15	1/11	2/9	3/11
326	15	4/9	5/9	6/7	7/7	8/5	9/4	10/4	11/3	12/3	16	1/1	1/30	2/28
327	16	3/29	4/27	5/26	6/25	7/24	8/23	9/22	10/22	11/21	12/20	17	1/19	2/17 3/19
328	17	4/17	5/16	6/14	7/14	8/13	9/11	10/11	11/10	12/9	18	1/8	2/7	3/8
329	18	4/6	5/6	6/4	7/4	8/2	9/1	9/30	10/30	11/28	12/28	19	1/27	2/25
330	19	3/27	4/25	5/25	6/23	7/23	8/21	9/20	10/19	11/18	12/17	20	1/16	2/14 3/15
331	20	4/14	5/13	6/12	7/11	8/10	9/8	10/8	11/6	12/5	21	1/4	2/2	3/4
332	21	4/3	5/2	6/1	7/1	7/30	8/29	9/27	10/27	11/25	12/24	22	1/23	2/21 3/23
333	22	4/21	5/21	6/20	7/20	8/18	9/17	10/16	11/15	12/14	23	1/12	2/11	3/12
334	23	4/11	5/10	6/9	7/9	8/8	9/6	10/6	11/4	12/3	24	1/2	1/31	3/1
335	24	3/30	4/29	5/28	6/27	7/26	8/25	9/24	10/23	11/22	12/21	25	1/20	2/18 3/20
336	25	4/18	5/18	6/16	7/16	8/14	9/13	10/12	11/11	12/11	26	1/10	2/8	3/10
337	26	4/8	5/7	6/6	7/5	8/3	9/2	10/1	10/31	11/30	12/30	27	1/28	2/27
338	27	3/28	4/27	5/26	6/24	7/24	8/22	9/21	10/20	11/19	12/19	28	1/18	2/16 3/17
339	28	4/15	5/15	6/13	7/12	8/11	9/9	10/9	11/7	12/7	29	1/6	2/4	3/6
340	29	4/5	5/4	6/3	7/2	7/31	8/30	9/28	10/28	11/26	12/26	30	1/24	2/23
341	30	3/25	4/23	5/23	6/21	7/21	8/19	9/18	10/17	11/16	12/15	31	1/14	2/12 3/14
342	31	4/12	5/12	6/11	7/10	8/9	9/7	10/7	11/6	12/5	32	1/3	2/2	3/2
343	32	4/1	4/30	5/30	6/28	7/28	8/27	9/26	10/25	11/24	12/23	33	1/21	2/20 3/21
344	33	4/19	5/19	6/17	7/17	8/16	9/15	10/15	11/13	12/13	34	1/11	2/9	3/11
345	34	4/9	5/8	6/7	7/6	8/5	9/4	10/4	11/2	12/2	35	1/1	1/30	2/28
346	35	3/30	4/28	5/27	6/26	7/25	8/24	9/23	10/22	11/21	12/21	36	1/19	2/18 3/18
347	36	4/17	5/16	6/14	7/14	8/12	9/11	10/11	11/9	12/9	37	1/7	2/6	3/8
348	37	4/6	5/6	6/4	7/4	8/2	8/31	9/30	10/30	11/28	12/27	38	1/26	2/25
349	38	3/26	4/25	5/25	6/23	7/23	8/21	9/20	10/19	11/17	12/17	39	1/15	2/14 3/15
350	39	4/14	5/14	6/12	7/12	8/11	9/9	10/9	11/7	12/6	40	1/5	2/3	3/4

SELEUCID ERA

Year 351 Seleucid era = year 287 Arsacid era

YEAR	A.D.	NIS	AIA	SIM	DUZ	ABU	ULU	U II	TAS	ARA	KIS	TEB	SHA	ADD	A II
351	40	4/2	5/2	5/31	6/30	7/30	8/29		9/27	10/27	11/25	12/24	41	1/23	2/21 3/22
352	41	4/21	5/21	6/19	7/19	8/18	9/17		10/16	11/14	12/14	42	1/12	2/11	3/12
353	42	4/10	5/10	6/8	7/8	8/7	9/5		10/5	11/4	12/3	43	1/1	1/31	3/2
354	43	3/31	4/29	5/29	6/27	7/27	8/25		9/24	10/24	11/22	12/22	44	1/21	2/19 3/20
355	44	4/18	5/18	6/16	7/15	8/14	9/12		10/12	11/10	12/10	45	1/9	2/8	3/9
356	45	4/8	5/7	6/6	7/5	8/3	9/2		10/1	10/31	11/29	12/29	46	1/28	2/27
357	46	3/28	4/27	5/26	6/25	7/24	8/22		9/20	10/20	11/19	12/18	47	1/17	2/16 3/17
358	47	4/16	5/16	6/14	7/13	8/12	9/10		10/10	11/8	12/8	48	1/6	2/5	3/5
359	48	4/4	5/4	6/2	7/2	7/31	8/30		9/28	10/28	11/26	12/26	49	1/24	2/23
360	49	3/24	4/23	5/22	6/21	7/20	8/19	9/18	10/18	11/16	12/15	50	1/14	2/12	3/13
361	50	4/12	5/11	6/10	7/9	8/8	9/7		10/7	11/6	12/5	51	1/4	2/2	3/3
362	51	4/1	5/1	5/30	6/29	7/28	8/27		9/26	10/26	11/25	12/24	52	1/22	2/21 3/21
363	52	4/19	5/19	6/17	7/16	8/15	9/14		10/14	11/13	12/12	53	1/11	2/9	3/11
364	53	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/2	12/1	12/31	54	1/30	2/28
365	54	3/30	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/20	55	1/19	2/17 3/19
366	55	4/17	5/17	6/15	7/15	8/13	9/12		10/11	11/10	12/9	56	1/8	2/6	3/7
367	56	4/6	5/5	6/4	7/4	8/2	9/1		9/30	10/29	11/28	12/27	57	1/25	2/24
368	57	3/26	4/24	5/24	6/23	7/23	8/21		9/20	10/19	11/17	12/17	58	1/15	2/13 3/15
369	58	4/13	5/13	6/12	7/12	8/10	9/9		10/9	11/7	12/6	59	1/5	2/3	3/4
370	59	4/3	5/2	6/1	7/1	7/30	8/29		9/28	10/27	11/26	12/25	60	1/24	2/22 3/22
371	60	4/21	5/20	6/19	7/18	8/17	9/16		10/15	11/14	12/14	61	1/12	2/11	3/12
372	61	4/10	5/10	6/8	7/8	8/6	9/5		10/4	11/3	12/3	62	1/1	1/31	3/1
373	62	3/31	4/30	5/29	6/27	7/27	8/25		9/23	10/23	11/22	12/22	63	1/20	2/19 3/21
374	63	4/19	5/19	6/17	7/16	8/15	9/13		10/12	11/11	12/11	64	1/9	2/8	3/9
375	64	4/7	5/7	6/5	7/5	8/3	9/1		10/1	10/30	11/29	12/29	65	1/28	2/26
376	65	3/27	4/26	5/26	6/24	7/24	8/22		9/21	10/20	11/18	12/18	66	1/17	2/15 3/16
377	66	4/15	5/15	6/13	7/13	8/12	9/10		10/10	11/8	12/8	67	1/6	2/4	3/6
378	67	4/4	5/4	6/2	7/2	8/1	8/30		9/29	10/29	11/27	12/27	68	1/25	2/23
379	68	3/24	4/22	5/22	6/20	7/20	8/18	9/17	10/17	11/16	12/15	69	1/14	2/12	3/13
380	69	4/12	5/11	6/9	7/9	8/7	9/6		10/6	11/5	12/5	70	1/3	2/2	3/3
381	70	4/1	5/1	5/30	6/28	7/28	8/26		9/25	10/25	11/24	12/24	71	1/22	2/21 3/22
382	71	4/20	5/20	6/18	7/17	8/16	9/15		10/14	11/13	12/12	72	1/11	2/10	3/10
383	72	4/9	5/8	6/7	7/6	8/5	9/3		10/3	11/1	12/1	12/30	73	1/29	2/28
384	73	3/29	4/28	5/27	6/26	7/25	8/24		9/22	10/22	11/20	12/19	74	1/18	2/17 3/18
385	74	4/17	5/17	6/15	7/15	8/14	9/12		10/11	11/10	12/9	75	1/7	2/6	3/7
386	75	4/6	5/5	6/4	7/4	8/3	9/2		10/1	10/31	11/29	12/28	76	1/26	2/25

