

33-132-84 = 365.25
133-85 = .248120
134-86 = 246268
135-87 = 244444

988832
968794
020038 ✓

358-1432-1384 = 365.25
1433-1385 = 249825
1434-1386 = .249651
1435-1387 = 249477

998953
968794

58-232-184 = 365.25
233-185 = 248927
234-186 = .247863
235-187 = 246808

993598
968794
024804 ✓

383-1532-1484 = 365.25
1533-1485 = 249836
1534-1486 = .249674
1535-1487 = 249511

030159
999021
968794

83-332-284 = 365.25
333-285 = 249249
334-286 = .248502
335-287 = .247761

995512
968794
026718 ✓

408-1632-1584 = 365.25
1633-1585 = 249846
1634-1586 = .249694
1635-1587 = 249541

030227
999081
968794

108-432-384 = 365.25
433-385 = 249422
434-386 = .248847
435-387 = 248275

996544
968794
027750 ✓

433-1732-1684 = 365.25
1733-1685 = 249855
1734-1686 = .249711
1735-1687 = 249567

030287
999133
968794

133-532-484 = 365.25
533-485 = 249530
534-486 = .249063
535-487 = 248598

997191
968794
028397 ✓

458-1832-1784 = 365.25
1833-1785 = 249863
1834-1786 = .249727
1835-1787 = 249591

030339
999181
968794

158-632-584 = 365.25
633-585 = 249605
634-586 = .249271
635-587 = .248818

997634
968794
028840 ✓

483-1932-1884 = 365.25
1933-1885 = 249870
1934-1886 = .249741
1935-1887 = 249612

030387
999223
968794

183-732-684 = 365.25
733-685 = 249658
734-686 = .249318
735-687 = 248979

997955
968794
029161 ✓

208-832-784 = 365.25
833-785 = 249699
834-786 = .249400
835-787 = 249101

998200
968794
029406 ✓

233-932-884 = 365.25
933-885 = 249732
934-886 = .239464
935-887 = 249197

998393
968794
029599 ✓

258-1032-984 = 365.25
1033-985 = 249757
1034-986 = .249516
1035-987 = 249275

998548
968794
029754 ✓

283-1132-1084 = 365.25
1133-1085 = 249779
1134-1086 = .249559
1135-1087 = 249339

998677
968794
029883 ✓

308-1232-1184 = 365.25
1233-1185 = 249797
1234-1186 = .249594
1235-1187 = 249392

998783
968794
029989 ✓

333-1332-1284 = 365.25
1333-1285 = 249812
1334-1286 = .249625
1335-1287 = 249438

998875
968794
030081 ✓

34-136-88 = 365.25	137-89 = 248175	989155
138-90 = 246976	139-91 = 244604	968794
		<u>020361</u> ✓
59-236-188 = 365.25	237-189 = 248945	993705
238-190 = 247899	239-191 = 246861	968794
		<u>.024911</u> ✓
84-336-288 = 365.25	337-289 = 249258	995565
338-290 = 248520	339-291 = 247787	968794
		<u>.026771</u> ✓
109-436-388 = 365.25	437-389 = 249427	996576
438-390 = 248858	439-391 = 248291	968794
		<u>.027782</u> ✓
134-536-488 = 365.25	537-489 = 249534	997212
538-490 = 249070	539-491 = 248608	968794
		<u>.028418</u> ✓
159-636-588 = 365.25	637-589 = 249607	997649
638-590 = 249216	639-591 = 248826	968794
		<u>.028855</u> ✓
184-736-688 = 365.25	737-689 = 249660	997967
738-690 = 249322	739-691 = 248985	968794
		<u>.029173</u> ✓
209-836-788 = 365.25	837-789 = 249701	998210
838-790 = 249403	839-791 = 249106	968794
		<u>.029416</u> ✓
234-936-888 = 365.25	937-889 = 249733	998400
938-890 = 249466	939-891 = 249201	968794
		<u>.029606</u> ✓
259-1036-988 = 365.25	1037-989 = 249758	998554
1038-990 = 249518	1039-991 = 249278	968794
		<u>.029760</u> ✓
284-1136-1088 = 365.25	1137-1089 = 249780	998681
1138-1090 = 249560	1139-1091 = 249341	968794
		<u>.029887</u> ✓
309-1236-1188 = 365.25	1237-1189 = 249797	998787
1238-1190 = 249596	1239-1191 = 249394	968794
		<u>.029993</u> ✓

334-1336-1288 = 365.25	1337-1289 = 249813	998878
1338-1290 = 249626	1339-1291 = 249439	968794
		<u>.030084</u> ✓
359-1436-1388 = 365.25	1437-1389 = 249826	998956
1438-1390 = 249652	1439-1391 = 249478	968794
		<u>.030162</u> ✓
384-1536-1488 = 365.25	1537-1489 = 249837	999023
1538-1490 = 249674	1539-1491 = 249512	968794
		<u>.030229</u> ✓
409-1636-1588 = 365.25	1637-1589 = 249847	999083
1638-1590 = 249694	1639-1591 = 249542	968794
		<u>.030289</u> ✓
434-1736-1688 = 365.25	1737-1689 = 249856	999136
1738-1690 = 249712	1739-1691 = 249568	968794
		<u>.030342</u> ✓
459-1836-1788 = 365.25	1837-1789 = 249863	999182
1838-1790 = 249727	1839-1791 = 249592	968794
		<u>.030388</u> ✓
484-1936-1888 = 365.25	1937-1889 = 249870	999225
1938-1890 = 249742	1939-1891 = 249613	968794
		<u>.030431</u> ✓

35-140-92 = 365.25
141-93 = 248226
142-94 = 246478
143-95 = 244755

989459
968794
020665 ✓

35-1340-1292 = 365.25
1341-1293 = 249813
1342-1294 = 249627
1343-1295 = 249441

998881
968794
030087

60-240-192 = 365.25
241-193 = 248962
242-194 = 247938
243-195 = 246913

993808
968794
025014 ✓

360-1440-1392 = 365.25
1441-1393 = 249826
1442-1394 = 249653
1443-1395 = 249480

998959
968794
030165

85-340-292 = 365.25
341-293 = 249266
342-294 = 248538 x
343-295 = 247813

995617 ✓
968794
026823

385-1540-1492 = 365.25
1541-1493 = 249837
1542-1494 = 249675
1543-1495 = 249513

999025
968794
030231

110-440-392 = 365.25
441-393 = 249333
442-394 = 248868
443-395 = 248307

996508 ✓
968794
027714

410-1640-1592 = 365.25
1641-1593 = 249847
1642-1594 = 249695
1643-1595 = 249543

999085
968794
030291

135-540-492 = 365.25
541-493 = 249537
542-494 = 249077
543-495 = 248618

997232 ✓
968794
028438

435-1740-1692 = 365.25
1741-1693 = 249856
1742-1694 = 249712
1743-1695 = 249569

999137
968794
030343

160-640-592 = 365.25
641-593 = 249609
642-594 = 249221
643-595 = 248838

997663
968794
028869

460-1840-1792 = 365.25
1841-1793 = 249864
1842-1794 = 249728
1843-1795 = 249593

999185
968794
030391

185-740-692 = 365.25
741-693 = 249662
742-694 = 249326
743-695 = 248996

997978
968794
029184

485-1940-1892 = 365.25
1941-1893 = 249872
1942-1894 = 249742
1943-1895 = 249613

999227
968794
030433

210-840-792 = 365.25
841-793 = 249702
842-794 = 249406
843-795 = 249110

998218
968794
029424

235-940-892 = 365.25
941-893 = 249734
942-894 = 249469
943-895 = 249204

998407
968794
029613

260-1040-992 = 365.25
1041-993 = 249759
1042-994 = 249520
1043-995 = 249280

998559
968794
029765

285-1140-1092 = 365.25
1141-1093 = 249780
1142-1094 = 249562
1143-1095 = 249343

998685
968794
029891

310-1240-1192 =
1241-1193 = 249798
1242-1194 = 249597
1243-1195 = 249396

998791
968794
029997

36-144-96 = 365.25
 145-97 = 248275
 146-98 = 246575
 147-99 = 244897

61-244-196 = 365.25
 245-197 = 248979
 246-198 = 247967
 247-199 = 246968

86-344-296 = 365.25
 345-297 = 249275
 346-298 = 248554
 347-299 = 247838

111-444-396 = 365.25
 445-397 = 249438
 446-398 = 248878
 447-399 = 248322

136-544-496 = 365.25
 545-497 = 249541
 546-498 = 249084
 547-499 = 248628

161-644-596 = 365.25
 645-597 = 249612
 646-598 = 249226
 647-599 = 248840

186-744-696 = 365.25
 745-697 = 249664
 746-698 = 249329
 747-699 = 248995

211-844-796 = 365.25
 845-797 = 249704
 846-798 = 249408
 847-799 = 249114

236-944-896 = 365.25
 945-897 = 249735
 946-898 = 249471
 947-899 = 249208

261-1044-996 = 365.25
 1045-997 = 249760
 1046-998 = 249522
 1047-999 = 249283

286-1144-1096 = 365.25
 1145-1097 = 249781
 1146-1098 = 249563
 1147-1099 = 249346

311-1244-1196 = 365.25
 1245-1197 = 249799
 1246-1198 = 249598
 1247-1199 = 249398

989747
968794
 020953 ✓

993909
968794
 025115 ✓

995667
968794
 026873 ✓

996638
968794
 027844 ✓

997253
968794
 028459 ✓

997678
968794
 028884

997988
968794
 029194

998226
968794
 029432

998414
968794
 029620

998565
968794
 029771

998690
968794
 029896

998795
968794
 030001

336-1344-1296 = 365.25
 1345-1297 = 249814
 1346-1298 = 249628
 1347-1299 = 249443

361-1444-1396 = 365.25
 1445-1397 = 249827
 1446-1398 = 249654
 1447-1399 = 249481

386-1544-1496 = 365.25
 1545-1497 = 249838
 1546-1498 = 249676
 1547-1499 = 249515

411-1644-1596 = 365.25
 1645-1597 = 249848
 1646-1598 = 249696
 1647-1599 = 249544

436-1744-1696 = 365.25
 1745-1697 = 249856
 1746-1698 = 249713
 1747-1699 = 249570

461-1844-1796 = 365.25
 1845-1797 = 249864
 1846-1798 = 249729
 1847-1799 = 249593

486-1944-1896 = 365.25
 1945-1897 = 249871
 1946-1898 = 249743
 1947-1899 = 249614

998885
968794
 030091

998962
968794
 030168

999029
968794
 030235

999088
968794
 030294

999139
968794
 030345

999186
968794
 030392

999228
968794
 030434

25
 2421982
 10078013
 19315
 19019
 18016
 17014
 16012
 15010
 14008
 13006
 12004
 11002
 10000

First Row

12-48-1 B.C = 365.25
 49-1 A.D = .244897
 50-2 = .24
 51-3 = .235294
970191
968794
 .001397 ✓

37-148-100 = 365.25
 149-101 = .248322
 150-102 = .246666
 151-103 = .245033
990021
968794
 .021227 ✓

62-248-200 = 365.25
 249-201 = .248995
 250-202 = .248
 251-203 = .247011
994006
968794
 .025212 ✓

87-348-300 = 365.25
 349-301 = .249283
 350-302 = .248571
 351-303 = .247863
995717
968794
 .026923 ✓

112-448-400 = 365.25
 449-401 = .249443
 450-402 = .248888
 451-403 = .248337
996668
968794
 .027874 ✓

137-548-500 = 365.25
 549-501 = .249544
 550-502 = .249090
 551-503 = .248638
997272
968794
 .028478 ✓

162-648-600 = 365.25
 649-601 = .249614
 650-602 = .249230
 651-603 = .248847
997691
968794
 .028897 ✓

187-748-700 = 365.25
 749-701 = .249666
 750-702 = .249333
 751-703 = .249001
998000
968794
 .029206 ✓

212-848-800 = 365.25
 849-801 = .249705
 850-802 = .249411
 851-803 = .249118
998234
968794
 .029440 ✓

237-948-900 = 365.25
 949-901 = .249736
 950-902 = .249472
 951-903 = .249211
998419
968794
 .029625 ✓

262-1048-1000 = 365.25
 1049-1001 = .249761
 1050-1002 = .249523
 1051-1003 = .249286
998570
968794
 .029776 ✓

287-1148-1100 = 365.25
 1149-1101 = .249782
 1150-1102 = .249565
 1151-1103 = .249348
998695
968794
 .029901 ✓

312-1248-1200 = 365.25
 1249-1201 = .249799
 1250-1202 = .249600
 1251-1203 = .249400
998799
968794
 .030005 ✓

337-1348-1300 = 365.25
 1349-1301 = .249814
 1350-1302 = .249629
 1351-1303 = .249444
998887
968794
 .030093 ✓

362-1448-1400 = 365.25
 1449-1401 = .249827
 1450-1402 = .249655
 1451-1403 = .249483
998965
968794
 .030171 ✓

387-1548-1500 = 365.25
 1549-1501 = .249839
 1550-1502 = .249677
 1551-1503 = .249516
999032
968794
 .030238 ✓

412-1648-1600 = 365.25
 1649-1601 = .249848
 1650-1602 = .249696
 1651-1603 = .249545
999089
968794
 .030295 ✓

437-1748-1700 = 365.25
 1749-1701 = .249857
 1750-1702 = .249714
 1751-1703 = .249571
999142
968794
 .030348 ✓

462-1848-1800 = 365.25
 1849-1801 = .249864
 1850-1802 = .249729
 1851-1803 = .249594
999187
968794
 .030393 ✓

487-1948-1900 = 365.25
 1949-1901 = .249871
 1950-1902 = .249743
 1951-1903 = .249615
999229
968794
 .030435 ✓

011396 = 100-103
 021226 = 100-103
 025171 = 200-203
 026920 = 300-303
 027873 = 400-403
 028477 = 500-503
 028896 = 600-603
 029205 = 700-703
 029469 = 800-803
 029624 = 900-903
 029775 = 1000-1003
 029900 = 1100-1103
 030004 = 1200-1203
 030092 = 1300-1303
 030170 = 1400-1403
 030237 = 1500-1503
 030294 = 1600-1603
 030348 = 1700-1703
 030392 = 1800-1803
 030434 = 1900-1903
.559903

1st Row

Second Row

13-52-4 = 365.25	972386	338-1352-1304 = 365.25	998891
53-5 = .245283	968794	1353-1305 = .249815	968794
54-6 = .240740	.003592 ✓	1354-1306 = .249630	<u>030097</u>
55-7 = .236363	990280	1355-1307 = 249446	
38-152-104 = 365.25	968794	363-1452-1404 = 365.25	998967
153-105 = .248366	.021486 ✓	1453-1405 = .249827	968794
154-106 = .246753	994100	1454-1406 = .249656	<u>030123</u>
155-107 = .245161	968794	1455-1407 = 249484	
63-252-204 = 365.25	.025306 ✓	388-1552-1504 = 365.25	999034
253-205 = .249011 ¹⁵	995765	1553-1505 = .249839	968794
254-206 = .248031	968794	1554-1506 = .249678	<u>030240</u>
255-207 = 247058	.026971 ✓	1555-1507 = 249517	
88-352-304 = 365.25	994697	413-1652-1604 = 365.25	999091
353-305 = .249291	968794	1653-1605 = .249848	968794
354-306 = .248587	.027903 ✓	1654-1606 = .249697	<u>030297</u>
355-307 = 247887	997292	1655-1607 = 249546	
113-452-404 = 365.25	968794	438-1752-1704 = 365.25	999143
453-405 = .249448	.028498 ✓	1753-1705 = .249857	968794
454-406 = .248898	997706	1754-1706 = 249714	<u>030349</u>
455-407 = 248351	968794	1755-1707 = 249572	
138-552-504 = 365.25	.028912 ✓	463-1852-1804 = 365.25	999190
553-505 = .249547	998009	1853-1805 = .249865	968794
554-506 = .249097	968794	1854-1806 = 249730	<u>030396</u>
555-507 = 248648	.029215 ✓	1855-1807 = 249595	
163-652-604 = 365.25	998242	488-1952-1904 = 365.25	999231
653-605 = .249617	968794	1953-1905 = .249871	968794
654-606 = .249235	.029448 ✓	1954-1906 = .249744	<u>030437</u>
655-607 = 248854	998426	1955-1907 = 249616	
88-752-704 = 365.25	998576		
753-705 = .249667	968794		
754-706 = .249336	.029632 ✓		
755-707 = 249006	998699		
213-852-804 = 365.25	968794		
853-805 = .249706	.029782 ✓		
854-806 = .249414	998803		
855-807 = 249122	968794		
238-952-904 = 365.25	029905 ✓		
953-905 = .249737	998967		
954-906 = .249475	968794		
955-907 = 249214	.030009 ✓		
263-1052-1004 = 365.25			
1053-1005 = .249762			
1054-1006 = .249525			
1055-1007 = 249289			
288-1152-1104 = 365.25			
1153-1105 = .249783			
1154-1106 = .249566			
1155-1107 = 249350			
313-1252-1204 = 365.25			
1253-1205 = .249800			
1254-1206 = 249601			
1255-1207 = 249402			

14-56-8 = 365.25	57-9 = .245614	974281	339-1356-1308 = 356.25	1357-1309 = 249815	998894
58-10 = .241379	988794	1358-1310 = 249631	968794		
59-11 = .237288	<u>.005488</u> ✓	1359-1311 = 249448	.030100		
39-156-108 = 365.25	157-109 = .248407	990525	364-1456-1408 = 365.25	1457-1409 = 249828	998970
158-110 = 246835	968794	1458-1410 = 249657	968794		
159-111 = 245283	<u>.021731</u> ✓	1459-1411 = 249485	.030176		
64-256-208 = 365.25	257-209 = 249027	994193	389-1556-1508 = 365.25	1557-1509 = 249839	999036
258-210 = 248062	968794	1558-1510 = 249679	968794		
259-211 = 247104	<u>.025399</u> ✓	1559-1511 = 249518	.630242		
89-356-308 = 365.25	357-309 = 249299	995812	414-1656-1608 = 365.25	1657-1609 = 249849	999093
358-310 = 248603	968794	1658-1610 = 249698	968794		
359-311 = 247910	<u>.027018</u>	1659-1611 = 249546	.030299		
114-456-408 = 365.25	457-409 = 249452	996726	439-1756-1708 = 365.25	1757-1709 = 249857	999145
458-410 = 248908	968794	1758-1710 = 249715	968794		
459-411 = 248366	<u>.027932</u>	1759-1711 = 249573	.030351		
139-556-508 = 365.25	557-509 = 249551	997312	464-1856-1808 = 365.25	1857-1809 = 249865	999191
558-510 = 249103	968794	1858-1810 = 249730	968794		
559-511 = 248658	<u>.028518</u>	1859-1811 = 249596	.030397		
164-656-608 = 365.25	657-609 = 249619	997720	489-1956-1908 = 365.25	1957-1909 = 249872	999233
658-610 = 249240	968794	1958-1910 = 249744	968794		
659-611 = 248861	<u>.028926</u>	1959-1911 = 249617	.030439		
189-756-708 = 365.25	757-709 = 249669	998020	214-856-808 = 365.25	857-809 = 249708	998251
758-710 = 249340	968794	858-810 = 249417	968794		
759-711 = 249011	<u>.029226</u>	859-811 = 249126	.029457		
239-956-908 = 365.25	957-909 = 249738	998433	239-956-908 = 365.25	957-909 = 249738	998433
958-910 = 249478	968794	958-910 = 249478	968794		
959-911 = 249217	<u>.029639</u>	959-911 = 249217	.029639		
264-1056-1008 = 365.25	1057-1009 = 249763	998581	264-1056-1008 = 365.25	1057-1009 = 249763	998581
1058-1010 = 249527	968794	1058-1010 = 249527	968794		
1059-1011 = 249291	<u>.029787</u>	1059-1011 = 249291	.029787		
289-1156-1108 = 365.25	1157-1109 = 249783	998703	289-1156-1108 = 365.25	1157-1109 = 249783	998703
1158-1110 = 249568	968794	1158-1110 = 249568	968794		
1159-1111 = 249352	<u>.029909</u>	1159-1111 = 249352	.029909		
314-1256-1208 = 365.25	1257-1209 = 249801	998807	314-1256-1208 = 365.25	1257-1209 = 249801	998807
1258-1210 = 249602	968794	1258-1210 = 249602	968794		
1259-1211 = 249404	<u>.030013</u>	1259-1211 = 249404	.030013		

15- 60-12 = 365.25
61-13 = 245901
62-14 = 241935
63-15 = 238095

975931
968794
007137 ✓

340-1360-1312 = 365.25
1361-1313 = 249816
1362-1314 = 249632
1363-1315 = 249449

998897
968794
030103

40-160-112 = 365.25
161-113 = 248447
162-114 = 246913
163-115 = 245398

990758
968794
.021964 ✓

365- 1460-1412 = 365.25
1461-1413 = 249828
1462-1414 = 249658
1463-1415 = 249487

998973
968794
030179

65-260-212 = 365.25
261-213 = 249042
262-214 = 248091
263-215 = 247148

994281
968794
025487 ✓

390- 1560-1512 = 365.25
1561-1513 = 249839
1562-1514 = 249679
1563-1515 = 249520

999038
968794
030244

90- 360-312 = 365.25
361-313 = 249307
362-314 = 248618
363-315 = 247933

995858
968794
027064 ✓

415- 1660-1612 = 365.25
1661-1613 = 249849
1662-1614 = 249699
1663-1615 = 249549

999097
968794
030303

115- 460-412 = 365.25
461-413 = 249457
462-414 = 248917
463-415 = 248380

996754
968794
027960 ✓

440- 1760-1712 = 365.25
1761-1713 = 249858
1762-1714 = 249716
1763-1715 = 249574

999148
968794
030354

140- 560-512 = 365.25
561-513 = 249554
562-514 = 249110
563-515 = 248667

997331
968794
028537

465- 1860-1812 = 365.25
1861-1813 = 249865
1862-1814 = 249731
1863-1815 = 249597

999193
968794
030399

165- 660-612 = 365.25
661-613 = 249621
662-614 = 249244
663-615 = 248868

997733
968794
028939

490- 1960-1912 = 365.25
1961-1913 = 249872
1962-1914 = 249745
1963-1915 = 249617

999234
968794
030440

190- 760-712 = 365.25
761-713 = 249671
762-714 = 249343
763-715 = 249017

998031
968794
029237

215- 860-812 = 365.25
861-813 = 249709
862-814 = 249419
863-815 = 249130

998258
968794
029464

240- 960-912 = 365.25
961-913 = 249739
962-914 = 249480
963-915 = 249221

998440
968794
029646

265- 1060-1012 = 365.25
1061-1013 = 249764
1062-1014 = 249529
1063-1015 = 249294

998587
968794
029793

290- 1160-1112 = 365.25
1161-1113 = 249784
1162-1114 = 249569
1163-1115 = 249355

998708
968794
029914

315- 1260-1212 = 365.25
1261-1213 = 249801
1262-1214 = 249603
1263-1215 = 249406

998810
968794
030016

16-64-16 = 365.25
25 65-17 = 246153
66-18 = 242424
67-19 = 238805

977382
968794
008588 ✓

366-1464-1416 = 365.25
1465-1417 = 249829
1466-1418 = 249658
1467-1419 = 249488
998975
968794
030181

41-164-116 = 365.25
165-117 = 248484
166-118 = 246987
167-119 = 245508

990979
968794
022185 ✓

391-1564-1516 = 365.25
1565-1517 = 249840
1566-1518 = 249680
1567-1519 = 249521
999041
968794
030247

66-264-216 = 365.25
25 265-217 = 249056
91 266-218 = 248120
267-219 = 247191

994367
968794
025573 ✓

416-1664-1616 = 365.25
1665-1617 = 249849
1666-1618 = 249699
1667-1619 = 249550
999098
968794
030304

91-364-316 = 365.25
25 365-317 = 249315
366-318 = 248633
367-319 = 247956

995904
968794
027110 ✓

441-1764-1716 = 365.25
1765-1717 = 249858
1766-1718 = 249716
1767-1719 = 249575
999149
968794
030355

116-464-416 = 365.25
465-417 = 249462
466-418 = 248927
467-419 = 248394

996783
968794
027989 ✓

466-1864-1816 = 365.25
1865-1817 = 249865
1866-1818 = 249732
1867-1819 = 249598
999195
968794
030401

141-564-516 = 365.25
565-517 = 249557
566-518 = 249116
567-519 = 248677

997350
968794
028556

491-1964-1916 = 365.25
1965-1917 = 249872
1966-1918 = 249745
1967-1919 = 249618
999235
968794
030441

166-664-616 = 365.25
665-617 = 249624
666-618 = 249249
667-619 = 248875

997748
968794
028954

191-764-716 = 365.25
765-717 = 249673
766-718 = 249347
767-719 = 249022

998042
968794
029248

216-864-816 = 365.25
865-817 = 249711
866-818 = 249422
867-819 = 249134

998267
968794
029473

241-964-916 = 365.25
965-917 = 249740
966-918 = 249482
967-919 = 249224

998446
968794
029652

266-1064-1016 = 365.25
1065-1017 = 249765
1066-1018 = 249530
1067-1019 = 249297

998592
968794
029798

291-1164-1116 = 365.25
1165-1117 = 249785
1166-1118 = 249571
1167-1119 = 249357

998713
968794
029919

316-1264-1216 = 365.25
1265-1317 = 249802
1266-1318 = 249605
1267-1319 = 249408

998815
968794
030020

341-1364-1316 = 365.25
1365-1317 = 249816
1366-1318 = 249683
1367-1319 = 249451

998900
968794
030106

17-88-20 = 365.25
25 69-21 = 246376
70-22 = 242857
71-23 = 239436

978669
968794
009875 ✓

342-1368-1320 = 365.25
1369-1321 = 249817
1370-1322 = 249635
1371-1323 = 249452

998904
968794
030110

42-168-120 = 365.25
169-121 = 248520
170-122 = 247058
171-123 = 245614

991192
968794
022398 ✓

367-1468-1420 = 365.25
1469-1421 = 249829
1470-1422 = 249659
1471-1423 = 249490

998978
968794
030184

67-268-220 = 365.25
269-221 = 249070
270-222 = 248148
271-223 = 247232

994450
968794
025656 ✓

392-1568-1520 = 365.25
1569-1521 = 249840
1570-1522 = 249681
1571-1523 = 249522

999043
968794
030249

92-368-320 = 365.25
369-321 = 249322
370-322 = 248648
371-323 = 247977

995947
968794
027153 ✓

417-1668-1620 = 365.25
1669-1621 = 249850
1670-1622 = 249700
1671-1623 = 249551

999101
968794
030307

117-468-420 = 365.25
469-421 = 249466
470-422 = 248986
471-423 = 248407

998809
968794
028015 ✓

442-1768-1720 = 365.25
1769-1721 = 249858
1770-1722 = 249717
1771-1723 = 249576

999151
968794
330337

142-568-520 = 365.25
569-521 = 249560
570-522 = 249122
571-523 = 248686

997368
968794
028574

467-1868-1820 = 365.25
1869-1821 = 249866
1870-1822 = 249732
1871-1823 = 249599

999197
968794
030403

167-668-620 = 365.25
669-621 = 249626
670-622 = 249253
671-623 = 248882

997761
968794
028966

492-1968-1920 = 365.25
1969-1921 = 249873
1970-1922 = 249746
1971-1923 = 249619

999238
968794
030444

192-768-720 = 365.25
769-721 = 249674
770-722 = 249350
771-723 = 249027

998051
968794
029257

217-868-820 = 365.25
869-821 = 249712
870-822 = 249425
871-823 = 249138

998275
968794
029481

022897
022184
213

242-968-920 = 365.25
969-921 = 249742
970-922 = 249484
971-923 = 249227

998453
968794
029659

267-1068-1020 = 365.25
1069-1021 = 249766
1070-1022 = 249532
1071-1023 = 249299

998597
968794
029803

292-1168-1120 = 365.25
1169-1121 = 249786
1170-1122 = 249572
1171-1123 = 249359

998717
968794
029923

317-1268-1220 = 365.25
1269-1221 = 249802
1270-1222 = 249606
1271-1223 = 249409

998817
968794
030023

48-12 before C. 2.

Eighth Row

(19)

469-1876-1828 = 365,25
 1877-1829 = 365.249866 .999199
 1878-1830 = 365.249733 .968794
 1879-1831 = 365.249600 .030405

(4)
 94-376-328 = 365.25
 377-329 = 365.249836
 378-330 = 365.248678
 379-331 = 365.248021

.996035
 .968794
 .027241 ✓

(5)

119-476-428 = 365.25
 477-429 = 365.249475
 478-430 = 365.248953
 479-431 = 365.248434

.992862
 .968794
 .028068 ✓

(6)

144-576-528 = 365.25
 577-529 = 365.249566
 578-530 = 365.249134
 579-531 = 365.248704

.997404
 .968794
 .028610 ✓

(7)

169-676-628 = 365.25
 677-629 = 365.249630
 678-630 = 365.249262
 679-631 = 365.248895

.997287
 .968794
 .028993 ✓

(8)

194-776-728 = 365.25
 777-729 = 365.249678
 778-730 = 365.249357
 779-731 = 365.249037

.998072
 .968794
 .029278 ✓

19 (76) 28 = 365.25
 (77) 29 = 365.246753
 (78) 30 = 365.243589
 48 (79) 31 = 365.240506

.980848
 .968794
 .012054 (1) ✓

69 (276) 228 = 365.25
 (277) 229 = 365.249097
 (278) 230 = 365.248201
 (279) 231 = 365.247311

.994609
 .968794 ✓
 .025815 (3)

494 (1926) 1928 = 365.25
 (1927) 1929 = 365.249873
 (1928) 1930 = 365.249747
 (1929) 1931 = 365.249621

.999241
 .968794
 .030447 (20)

44 (176) 128 = 365.25
 (177) 129 = 365.248587
 (178) 130 = 365.247190
 (179) 131 = 365.245810

.991587
 .968794
 .022793 ✓
 (2)

$$\begin{array}{r}
 219 - 876 - 828 = 365.25 \\
 877 - 829 = 365.249714 \\
 878 - 880 = 365.249430 \\
 879 - 831 = 365.249146 \\
 \hline
 .998290 \\
 .968794 \\
 .029496
 \end{array}$$

(9)

$$\begin{array}{r}
 244 - 976 - 928 = 365.25 \\
 977 - 929 = 365.249744 \\
 978 - 930 = 365.249488 \\
 979 - 931 = 365.249232 \\
 \hline
 .998464 \\
 .968794 \\
 .029670
 \end{array}$$

(10)

$$\begin{array}{r}
 269 - 1076 - 1028 = 365.25 \\
 1077 - 1029 = 365.249767 \\
 1078 - 1030 = 365.249536 \\
 1079 - 1031 = 365.249304 \\
 \hline
 .998607 \\
 .968794 \\
 .029813
 \end{array}$$

(11)

$$\begin{array}{r}
 294 - 1176 - 1128 = 365.25 \\
 1177 - 1129 = 365.249787 \\
 1178 - 1130 = 365.249575 \\
 1179 - 1131 = 365.249363 \\
 \hline
 .998723 \\
 .968794 \\
 .029931
 \end{array}$$

(12)

$$\begin{array}{r}
 319 - 1276 - 1228 = 365.25 \\
 1277 - 1229 = 365.249804 \\
 1278 - 1230 = 365.249608 \\
 1279 - 1231 = 365.249413 \\
 \hline
 .998825 \\
 .968794 \\
 .030031
 \end{array}$$

(13)

$$\begin{array}{r}
 14 \\
 344 - 1376 - 1328 = 365.25 \\
 1377 - 1329 = 365.249818 \\
 1378 - 1380 = 365.249637 \\
 1379 - 1331 = 365.249456
 \end{array}$$

$$\begin{array}{r}
 .998911 \\
 .968794 \\
 \hline
 .030167
 \end{array}$$

(14)

$$\begin{array}{r}
 369 - 1476 - 1428 = 365.25 \\
 1477 - 1429 = 365.249830 \\
 1478 - 1430 = 365.249661 \\
 1479 - 1431 = 365.249492
 \end{array}$$

$$\begin{array}{r}
 .998983 \\
 .968794 \\
 \hline
 .030189
 \end{array}$$

(15)

$$\begin{array}{r}
 394 - 1576 - 1528 = 365.25 \\
 1577 - 1529 = 365.249841 \\
 1578 - 1530 = 365.249683 \\
 1579 - 1531 = 365.249525
 \end{array}$$

$$\begin{array}{r}
 .999049 \\
 .968794 \\
 \hline
 .030255
 \end{array}$$

(16)

$$\begin{array}{r}
 419 - 1676 - 1628 = 365.25 \\
 1677 - 1629 = 365.249850 \\
 1678 - 1630 = 365.249702 \\
 1679 - 1631 = 365.249553
 \end{array}$$

$$\begin{array}{r}
 .999105 \\
 .968794 \\
 \hline
 .030311
 \end{array}$$

(17)

$$\begin{array}{r}
 444 - 1776 - 1728 = 365.25 \\
 1777 - 1729 = 365.249859 \\
 1778 - 1730 = 365.249718 \\
 1779 - 1731 = 365.249578
 \end{array}$$

$$\begin{array}{r}
 .999155 \\
 .968794 \\
 \hline
 .030361
 \end{array}$$

(18)

Row 7

18-72-24 = 365.25
73-25 = 246575
74-26 = 243243
75-27 = 24

979818
968794
011024 ✓

318-1272-1224 = 365.25
1273-1225 = 249803
1274-1226 = 249607
1275-1227 = 249411
998821
968794
030027

43-172-124 = 365.25
173-125 = 248554
174-126 = 247126
175-127 = 245714

991394
968794
022600 ✓

343-1372-1324 = 365.25
1373-1325 = 249817
1374-1326 = 249636
1375-1327 = 249454
998907
968794
030113

68-272-224 = 365.25
273-225 = 249084
274-226 = 248175
275-227 = 247272

994531
968794
025737 ✓

368-1472-1424 = 365.25
1473-1425 = 249830
1474-1426 = 249660
1475-1427 = 249491
998981
968794
030187

93-372-324 = 365.25
373-325 = 249329
374-326 = 248663
375-327 = 248

995992
968794
027198 ✓

393-1572-1524 = 365.25
1573-1525 = 249841
1574-1526 = 249682
1575-1527 = 249523
999046
968794
030252

118-472-424 = 365.25
473-425 = 249471
474-426 = 248945
475-427 = 248421

996837
968794
028043 ✓

418-1672-1624 = 365.25
1673-1625 = 249850
1674-1626 = 249701
1675-1627 = 249552
999103
968794
030309

143-572-524 = 365.25
573-525 = 249563
574-526 = 249128
575-527 = 248695

997386
968794
028592 ✓

443-1772-1724 = 365.25
1773-1725 = 249858
1774-1726 = 249719
1775-1727 = 249577
999154
968794
030360

168-672-624 = 365.25
673-625 = 249628
674-626 = 249258
675-627 = 248888

997774
968794
028980 ✓

468-1872-1824 = 365.25
1873-1825 = 249866
1874-1826 = 249733
1875-1827 = 249600
999199
968794
030405

193-772-724 = 365.25
773-725 = 249676
774-726 = 249354
775-727 = 249032

998062
968794
029268 ✓

493-1972-1924 = 365.25
1973-1925 = 249873
1974-1926 = 249746
1975-1927 = 249620
999239
968794
030445

218-872-824 = 365.25
873-825 = 249713
874-826 = 249427
875-827 = 249142

998282
968794
029488 ✓

243-972-924 = 365.25
973-925 = 249743
974-926 = 249486
975-927 = 249230

998459
968794
029665 ✓

268-1072-1024 = 365.25
1073-1025 = 249767
1074-1026 = 249534
1075-1027 = 249302

998603
968794
029809 ✓

293-1172-1124 = 365.25
1173-1125 = 249786
1174-1126 = 249574
1175-1127 = 249361

998721
968794
029927 ✓

20-80-32 = 365.25
 81-33 = .246913
 82-34 = .243902
 83-35 = .240963

981778
 968794
 .012984 ✓

320-1280-1232 = 365.25
 1281-1233 = 249804
 1282-1234 = .249609
 1283-1235 = 249415

998828
 968794
 .030034

45-186-132 = 365.25
 181-133 = 248618
 182-134 = .247252
 183-135 = .245901

991771
 968794
 .022977 ✓

345-1380-1332 = 365.25
 1381-1333 = 249818
 1382-1334 = .249638
 1383-1335 = 249457

998913
 968794
 .030119

70-280-232 = 365.25
 281-233 = 249110
 282-234 = .248226
 283-235 = .247349

994685
 968794
 .025891 ✓

370-1480-1432 = 365.25
 1481-1433 = 249831
 1482-1434 = .249662
 1483-1435 = 249494

998987
 968794
 .030193

95-380-332 = 365.25
 381-333 = 249343
 382-334 = .248691
 383-335 = 248041

996075
 968794
 .027281 ✓

395-1580-1532 = 365.25
 1581-1533 = 249841
 1582-1534 = .249683
 1583-1535 = 249526

999050
 968794
 .030256

120-480-432 = 365.25
 481-433 = 249480
 482-434 = .248962
 483-435 = 248447

998889
 968794
 .028095 ✓

420-1680-1632 = 365.25
 1681-1633 = 249851
 1682-1634 = .249702
 1683-1635 = 249554

999107
 968794
 .030313

145-580-532 = 365.25
 581-533 = 249569
 582-534 = .249140
 583-535 = 248713

997422
 968794
 .028628 ✓

445-1780-1732 = 365.25
 1781-1733 = 249859
 1782-1734 = .249719
 1783-1735 = 249579

999157
 968794
 .030363

170-680-632 = 365.25
 681-633 = 249632
 682-634 = .249266
 683-635 = 248901

997799
 968794
 .029005 ✓

470-1880-1832 = 365.25
 1881-1833 = 249867
 1882-1834 = .249734
 1883-1835 = 249601

999202
 968794
 .030408

195-780-732 = 365.25
 781-733 = 249678
 782-734 = .249360
 783-735 = 249042

998080
 968794
 .029286 ✓

495-1980-1932 = 365.25
 1981-1933 = 249873
 1982-1934 = .249747
 1983-1935 = 249621

999241
 968794
 .030447

220-880-832 = 365.25
 881-833 = 249716
 882-834 = .249433
 883-835 = 249150

998299
 968794
 .029505 ✓

245-980-932 = 365.25
 981-933 = 249745
 982-934 = .249490
 983-935 = 249237

998472
 968794
 .029678 ✓

270-1080-1032 = 365.25
 1081-1033 = 249768
 1082-1034 = .249537
 1083-1035 = 249307

998612
 968794
 .029818 ✓

295-1180-1132 = 365.25
 1181-1133 = 249788
 1182-1134 = .249576
 1183-1135 = 249366

998730
 968794
 .029936 ✓

21-84-36 = 365.25	85-37 = 247058	86-38 = 244186	87-39 = 241379	982623	968794	013829 ✓	346-1384-1336 = 365.25	1385-1337 = 249819	1386-1338 = 249639	1387-1339 = 249459	998917	968794	
46-184-136 = 365.25	185-137 = 248648	186-138 = 247311	187-139 = 245989	992948	968794	023154 ✓	371-1484-1436 = 365.25	1485-1437 = 249831	1486-1438 = 249668	1487-1439 = 249495	030123	998989	968794
71-284-236 = 365.25	285-237 = 249122	286-238 = 248251	287-239 = 247386	994759	968794	025965 ✓	396-1584-1536 = 365.25	1585-1537 = 249842	1586-1538 = 249684	1587-1539 = 249527	030195	999053	968794
96-384-336 = 365.25	385-337 = 249350	386-338 = 248704	387-339 = 248062	996116	968794	027322 ✓	421-1684-1636 = 365.25	1685-1637 = 249851	1686-1638 = 249703	1687-1639 = 249555	030315	999109	968794
121-484-436 = 365.25	485-437 = 249484	486-438 = 248971	487-439 = 248459	996914	968794	028120 ✓	446-1784-1736 = 365.25	1785-1737 = 249859	1786-1738 = 249720	1787-1739 = 249580	030365	999159	968794
146-584-536 = 365.25	585-537 = 249572	586-538 = 249146	587-539 = 248722	997440	968794	028646 ✓	471-1884-1836 = 365.25	1885-1837 = 249867	1886-1838 = 249737	1887-1839 = 249602	030409	999203	968794
171-684-636 = 365.25	685-637 = 249635	686-638 = 249271	687-639 = 248908	997814	968794	029020 ✓	496-1984-1936 = 365.25	1985-1937 = 249874	1986-1938 = 249748	1987-1939 = 249622	030450	999244	968794
196-784-736 = 365.25	785-737 = 249681	786-738 = 249363	787-739 = 249047	998091	968794	029297 ✓							
221-884-836 = 365.25	885-837 = 249717	886-838 = 249435	887-839 = 249154	998306	968794	029512 ✓							
246-984-936 = 365.25	985-937 = 249746	986-938 = 249492	987-939 = 249240	998478	968794	029684 ✓							
271-1084-1036 = 365.25	1085-1037 = 249769	1086-1038 = 249539	1087-1039 = 249310	998618	968794	029824 ✓							
296-1184-1136 = 365.25	1185-1137 = 249789	1186-1138 = 249578	1187-1139 = 249368	998735	968794	029941 ✓							
321-1284-1236 = 365.25	1285-1237 = 249805	1286-1238 = 249611	1287-1239 = 249417	998833	968794	030039 ✓							

Row 11

22-88-40 = 365.25
89-41 = 247191
90-42 = 244444
91-43 = 241758

983393
968794
014599 ✓

347-1388-1340 = 365.25
1389-1341 = 249820
1390-1342 = 249640
1391-1343 = 249460

998920
968794
030126

47-188-140 = 365.25
189-141 = 248677
190-142 = 247368
191-143 = 246073

992118
968794
028324 ✓

372-1488-1440 = 365.25
1489-1441 = 249882
1490-1442 = 249664
1491-1443 = 249496

998992
968794
030198

72-288-240 = 365.25
289-241 = 249134
290-242 = 248275
291-243 = 247422

994831
968794
026037 ✓

397-1588-1540 = 365.25
1589-1541 = 249842
1590-1542 = 249685
1591-1543 = 249528

999055
968794
030261

97-388-340 = 365.25
389-341 = 249357
390-342 = 248717
391-343 = 248081

996155
968794
027361 ✓

422-1688-1640 = 365.25
1689-1641 = 249851
1690-1642 = 249704
1691-1643 = 249556

999111
968794
030317

122-488-440 = 365.25
489-441 = 249488
490-442 = 248978
491-443 = 248472

996938
968794
028144 ✓

447-1788-1740 = 365.25
1789-1741 = 249860
1790-1742 = 249720
1791-1743 = 249581

999161
968794
030367

147-588-540 = 365.25
589-541 = 249576
590-542 = 249152
591-543 = 248730

997457
968794
028663 ✓

472-1888-1840 = 365.25
1889-1841 = 249867
1890-1842 = 249735
1891-1843 = 249603

999205
968794
030411

172-688-640 = 365.25
689-641 = 249637
690-642 = 249275
691-643 = 248914

997826
968794
029032 ✓

197-788-740 = 365.25
789-741 = 249683
790-742 = 249367
791-743 = 249051

998101
968794
029307 ✓

222-888-840 = 365.25
889-841 = 249718
890-842 = 249438
891-843 = 249158

998314
968794
029520 ✓

247-988-940 = 365.25
989-941 = 249747
990-942 = 249494
991-943 = 249243

998484
968794
029690 ✓

272-1088-1040 = 365.25
1089-1041 = 249770
1090-1042 = 249541
1091-1043 = 249312

998623
968794
029829 ✓

297-1188-1140 = 365.25
1189-1141 = 249789
1190-1142 = 249579
1191-1143 = 249370

998738
968794
029944 ✓

322-1288-1240 = 365.25
1289-1241 = 249806
1290-1242 = 249612
1291-1243 = 249419

998837
968794
030043 ✓

Row 12

23-92-44 = 365.25	93-45 = 247311	984096	348-1392-1344 = 365.25	1393-1345 = 249820	998923
94-46 = 244880	968794	968794	1394-1346 = 249641	968794	
95-47 = 242105	015302 ✓		1395-1347 = 249462	030129	
48-192-144 = 365.25	193-145 = 248704	99-279	373-1492-1444 = 365.25	1493-1445 = 249832	998995
194-146 = 247422	968794	968794	1494-1446 = 249665	968794	
195-147 = 246153	023485 ✓		1495-1447 = 249498	030201	
73-292-244 = 365.25	293-245 = 249146	994902	398-1592-1544 = 365.25	1593-1545 = 249843	999058
294-246 = 248299	968794	968794	1594-1546 = 249686	968794	
295-247 = 247457	026108 ✓		1595-1547 = 249529	030264	
98-392-344 = 365.25	393-345 = 249369	996194	423-1692-1644 = 365.25	1693-1645 = 249852	999113
394-346 = 248730	968794	968794	1694-1646 = 249704	968794	
395-347 = 248101	027400		1695-1647 = 249557	030319	
123-492-444 = 365.25	493-445 = 249492	996963	448-1792-1744 = 365.25	1793-1745 = 249860	999163
494-446 = 248987	968794	968794	1794-1746 = 249721	968794	
495-447 = 248484	028169		1795-1747 = 249582	030369	
148-592-544 = 365.25	593-545 = 249578	997475	473-1892-1844 = 365.25	1893-1845 = 249867	999208
594-546 = 249158	968794	968794	1894-1846 = 249736	968794	
595-547 = 248789	028681		1895-1847 = 249603	030412	
173-692-644 = 365.25	693-645 = 249639	997838			
694-646 = 249279	968794	968794			
695-647 = 248920	029044				
198-792-744 = 365.25	793-745 = 249684	998110			
794-746 = 249370	968794	968794			
795-747 = 249056	029316				
223-892-844 = 365.25	893-845 = 249720	998322			
894-846 = 249440	968794	968794			
895-847 = 249162	029528				
248-992-944 = 365.25	993-945 = 249748	998490			
994-946 = 249496	968794	968794			
995-947 = 249246	029696				
273-1092-1044 = 365.25	1093-1045 = 249771	998628			
1094-1046 = 249542	968794	968794			
1095-1047 = 249315	029834				
298-1192-1144 = 365.25	1193-1145 = 249790	998743			
1194-1146 = 249581	968794	968794			
1195-1147 = 249372	029949				
323-1292-1244 = 365.25	1293-1245 = 249806	998839			
1294-1246 = 249613	968794	968794			
1295-1247 = 249420	030045				

249832

1493) 3730
 2986
 7440
 5972
 14680
 13437

12430
 11944
 4860
 4479
 3810
 2986

249832

1497) 3740
 2894
 7460
 5988
 14720
 13423
 12470
 11976
 4940
 4491
 4490

24-96-48 = 365.25	984743	349-1396-1348 = 365.25	998926
97-49 = 247422	968794	1397-1349 = 249821	968794
98-50 = 244897	015948 ✓	1398-1350 = 249642	030132
99-51 = 242424		1399-1351 = 249463	
49-196-148 = 365.25	992435	374-1496-1448 = 365.25	998997
197-149 = 248730	968794	1497-1449 = 249832	968794
198-150 = 247474	023641 ✓	1498-1450 = 249666	030203
199-151 = 246231		1499-1451 = 249499	
74-296-248 = 365.25	994971	399-1596-1548 = 365.25	999060
297-249 = 249158	968794	1597-1549 = 249843	968794
298-250 = 248322	026177 ✓	1598-1550 = 249687	030266
299-251 = 247491		1599-1551 = 249530	
99-396-348 = 365.25	996233	424-1696-1648 = 365.25	999115
397-349 = 249370	968794	1697-1649 = 249852	968794
398-350 = 248743	027439 ✓	1698-1650 = 249705	030321
399-351 = 248120		1699-1651 = 249558	
124-496-448 = 365.25	996987	449-1796-1748 = 365.25	999165
497-449 = 249496	968794	1797-1749 = 249860	968794
498-450 = 248995	028193 ✓	1798-1750 = 249721	030371
499-451 = 248496		1799-1751 = 249584	
149-596-548 = 365.25	997491	474-1896-1848 = 365.25	999209
597-549 = 249581	968794	1897-1849 = 249868	968794
598-550 = 249168	028497	1898-1850 = 249736	030415
599-551 = 248747		1899-1851 = 249605	
174-696-648 = 365.25	997851		
697-649 = 249641	968794		
698-650 = 249283	029057		
699-651 = 248927			
199-796-748 = 365.25	998120		
797-749 = 249686	968794		
798-750 = 249373	029326		
799-751 = 249061			
224-896-848 = 365.25	998329		
897-849 = 249721	968794		
898-850 = 249443	029535		
899-851 = 249165			
249-996-948 = 365.25	998496		
997-949 = 249749	968794		
998-950 = 249498	029702		
999-951 = 249249			
274-1096-1048 = 365.25	998633		
1097-1049 = 249772	968794		
1098-1050 = 249544	029839		
1099-1051 = 249317			
299-1196-1148 = 365.25	998747		
1197-1149 = 249791	968794		
1198-1150 = 249582	029953		
1199-1151 = 249374			
324-1296-1248 = 365.25	998843		
1297-1249 = 249807	968794		
1298-1250 = 249614	030049		
1299-1251 = 249422			

Fourteenth Row

25-100-52 = 365.25
 101-53 = .247524
 102-54 = .245098
 103-55 = .242718

50-200-152 = 365.25
 201-153 = .248756
 202-154 = .247524
 203-155 = .246305

75-300-252 = 365.25
 301-253 = .249169
 302-254 = .248344
 303-255 = .247524

100-400-352 = 365.25
 401-353 = .249376
 402-354 = .248756
 403-355 = .248138

125-500-452 = 365.25
 501-453 = .249500
 502-454 = .249003
 503-455 = .248508

150-600-552 = 365.25
 601-553 = .249584
 602-554 = .249169
 603-555 = .248756

175-700-652 = 365.25
 701-653 = .249643
 702-654 = .249287
 703-655 = .248933

200-800-752 = 365.25
 801-753 = .249687
 802-754 = .249376
 803-755 = .249066

225-900-852 = 365.25
 901-853 = .249722
 902-854 = .249445
 903-855 = .249169

250-1000-952 = 365.25
 1001-953 = .249750
 1002-954 = .249500
 1003-955 = .249252

275-1100-1052 = 365.25
 1101-1053 = .249772
 1102-1054 = .249546
 1103-1055 = .249320

300-1200-1152 = 365.25
 1201-1153 = .249791
 1202-1154 = .249584
 1203-1155 = .249376

325-1300-1252 = 365.25
 1301-1253 = .249807
 1302-1254 = .249675
 1303-1255 = .249424

350-1400-1352 = 365.25
 1401-1353 = .249821
 1402-1354 = .249643
 1403-1355 = .249465

.985340
968794
 .016546 ✓

.992585
968794
 .023791 ✓

.995037
968794
 .026243 ✓

996270
968794
 .027476 ✓

997011
968794
 .028217 ✓

997509
968794
 .028715

997863
968794
 .029069

998129
968794
 .029335

998336
968794
 .029542

998502
968794
 .029708

998638
968794
 .029844

998751
968794
 .029957

998846
968794
 .030052

998929
968794
 .030135

375-1500-1452 = 365.25
 1501-1453 = .249833
 1502-1454 = .249667
 1503-1455 = .249500

400-1600-1552 = 365.25
 1601-1553 = .249843
 1602-1554 = .249687
 1603-1555 = .249532

425-1700-1652 = 365.25
 1701-1653 = .249853
 1702-1654 = .249706
 1703-1655 = .249559

450-1800-1752 = 365.25
 1801-1753 = .249861
 1802-1754 = .249722
 1803-1755 = .249584

475-1900-1852 = 365.25
 1901-1853 = .249868
 1902-1854 = .249737
 1903-1855 = .249605

999000
968794
 .030206

999062
968794
 .030268

999118
968794
 .030324

999167
968794
 .030373

999210
968794
 .030416

Fifteenth

Row

26-704-56 = 365.25	.985892	
105-57 = .247619	.968794	
106-58 = .245283	.017098	✓
107-59 = .242990		
51-204-156 = 365.25	.992728	
205-157 = .248788	.968794	
206-158 = .247572	.023934	✓
207-159 = .246376		
76-304-256 = 365.25	.995103	
305-257 = .249180	.968794	✓
306-258 = .248366	.026309	✓
307-259 = .247557		
101-404-356 = 365.25	.996307	
405-357 = .249382	.968794	✓
406-358 = .248768	.027513	✓
407-359 = .248157		
126-504-456 = 365.25	.997035	
505-457 = .249504	.968794	✓
506-458 = .249011	.028241	✓
507-459 = .248520		
151-604-556 = 365.25	.997524	
605-557 = .249586	.968794	✓
606-558 = .249174	.028730	✓
607-559 = .248764		
176-704-656 = 365.25	.997875	
705-657 = .249645	.968794	✓
706-658 = .249291	.029081	✓
707-659 = .248939		
201-804-756 = 365.25	.998138	
805-757 = .249689	.968794	✓
806-758 = .249379	.029344	✓
807-759 = .249070		
226-904-856 = 365.25	.998344	
905-857 = .249723	.968794	✓
906-858 = .249448	.029550	✓
907-859 = .249173		
251-1004-956 = 365.25	.998508	
1005-957 = .249751	.968794	✓
1006-958 = .249502	.029714	✓
1007-959 = .249255		
276-1104-1056 = 365.25	.998642	
1105-1057 = .249773	.968794	✓
1106-1058 = .249547	.029848	✓
1107-1059 = .249322		
301-1204-1156 = 365.25	.998755	
1205-1157 = .249792	.968794	✓
1206-1158 = .249585	.029961	✓
1207-1159 = .249378		

326-1304-1256 = 365.25	.249808	.998851
1305-1257 = .249617	.968794	
1306-1258 = .249426	.030057	
1307-1259 = .249235		
351-1404-1356 = 365.25	.249822	.998932
1405-1357 = .249644	.968794	
1406-1358 = .249466	.030138	
1407-1359 = .249288		
376-1504-1456 = 365.25	.249833	.999002
1505-1457 = .249667	.968794	
1506-1458 = .249502	.030208	
1507-1459 = .249337		
401-1604-1556 = 365.25	.249844	.999065
1605-1557 = .249688	.968794	
1606-1558 = .249533	.030271	
1607-1559 = .249378		
426-1704-1656 = 365.25	.249853	.999119
1705-1657 = .249706	.968794	
1706-1658 = .249560	.030325	
1707-1659 = .249414		
451-1804-1756 = 365.25	.249861	.999168
1805-1757 = .249723	.968794	
1806-1758 = .249584	.030374	
1807-1759 = .249446		
476-1904-1856 = 365.25	.249868	.999211
1905-1857 = .249737	.968794	
1906-1858 = .249606	.030417	
1907-1859 = .249475		
501-2004-1956 = 365.25	.249875	.999251
2005-1957 = .249750	.968794	
2006-1958 = .249626	.030457	
2007-1959 = .249502		
017097 = 56-59	28-31 = .012053	
023982 = 156-159	128-31 = .022792	
026308 = 256-259	228-31 = .025814	
027512 = 356-359	328-31 = .027240	
028240 = 456-459	428-31 = .028067	
028729 = 556-559	528-31 = .028609	
029080 = 656-659	628-31 = .028992	
029343 = 756-759	728-31 = .029277	
029549 = 856-859	828-31 = .029495	
029713 = 956-959	928-31 = .029669	
029847 = 1056-1059	1028-31 = .029812	
029960 = 1156-1159	1128-31 = .029930	
030056 = 1256-1259	1228-31 = .030030	
030137 = 1356-1359	1328-31 = .030109	
030207 = 1456-1459	1428-31 = .030188	
030270 = 1556-1559	1528-31 = .030254	
030324 = 1656-1659	1628-31 = .030310	
030373 = 1756-1759	1728-31 = .030360	
030416 = 1856-1859	1828-31 = .030404	
030456 = 1956-1959	1928-31 = .030446	
.571599		.563851

15th Row

8th Row

27-108-60 = 365.25
 709-61 = .247706
 110-62 = .245454
 111-63 = .243273

986403
 968794
 017609 ✓

352-1408-1360 = 365.25
 1409-1361 = .249822
 1410-1362 = .249645
 1411-1363 = 249468

998935
 968794
 .030141

52-208-160 = 365.25
 209-161 = 248803
 210-162 = .247619
 211-163 = 246445

992867
 968794
 .024073 ✓

377-1508-1460 = 365.25
 1509-1461 = .249834
 1510-1462 = 1249668
 1511-1463 = 249503

999005
 968794
 .030211

77-308-260 = 365.25
 309-261 = .249190
 310-262 = .248387
 311-263 = 247588

995165
 968794 ✓
 .026371

402-1608-1560 = 365.25
 1609-1561 = .249844
 1610-1562 = 249689
 1611-1563 = 249534

999067
 968794
 .030273

102-408-360 = 365.25
 409-361 = .249388
 410-362 = .248780
 411-363 = 248175

996343
 968794 ✓
 027549

427-1708-1660 = 365.25
 1709-1661 = .249853
 1710-1662 = 249707
 1711-1663 = 249561

999121
 968794
 .030327

127-508-460 = 365.25
 509-461 = .249508
 510-462 = 249019
 511-463 = 248532

997059
 968794 ✓
 .028265

452-1808-1760 = 365.25
 1809-1761 = .249861
 1810-1762 = .249723
 1811-1763 = 249585

999169
 968794
 .030375

152-608-560 = 365.25
 609-561 = .249589
 610-562 = 249180
 611-563 = 248772

997541
 968794
 .028747

477-1908-1860 = 365.25
 1909-1861 = .249869
 1910-1862 = 249738
 1911-1863 = 249607

999214
 968794
 .030420

177-708-660 = 365.25
 709-661 = .249647
 710-662 = 249295
 711-663 = 248945

997887
 968794
 .029093

202-808-760 = 365.25
 809-761 = .249690
 810-762 = 249382
 811-763 = 249075

998147
 968794
 .029353

227-908-860 = 365.24
 909-861 = .249724
 910-862 = 249450
 911-863 = 249176

998350
 968794
 .029556

252-1008-960 = 365.25
 1009-961 = .249752
 1010-962 = 249504
 1011-963 = 249258

998514
 968794
 .029720

277-1108-1060 = 365.25
 1109-1061 = .249774
 1110-1062 = 249549
 1111-1063 = 249324

998647
 968794
 .029853

302-1208-1160 = 365.25
 1209-1161 = .249793
 1210-1162 = 249586
 1211-1163 = 249380

998759
 968794
 .029965

327-1308-1260 = 365.25
 1309-1261 = .249809
 1310-1262 = 249618
 1311-1263 = 249427

998854
 968794
 030060

28-112-64 = 365.25	113-65 = .247787	986879	353-1412-1364 = 365.25	1413-1365 = .249823	998938
114-66 = .245614	968794	1414-1366 = .249646	968794		
115-67 = .243478	018085 ✓	1415-1367 = .249469	.030144		
53-212-164 = 365.25	213-165 = .248826	993000	378-1512-1464 = 365.25	1513-1465 = .249834	999007
214-166 = .247663	968794	1514-1466 = .249669	968794		
215-167 = .246511	.024206 ✓	1515-1467 = .249504	.030213		
78-312-264 = 365.25	313-265 = .249201	995217	403-1612-1564 = 365.25	1613-1565 = .249845	999070
314-266 = .248407	968794 ✓	1614-1566 = .249690	968794		
315-267 = .247619	.026433	1615-1567 = .249535	.030276		
103-412-364 = 365.25	413-365 = .249394	996378 ✓	428-1712-1664 = 365.25	1713-1665 = .249854	999124
414-366 = .248792	968794	1714-1666 = .249708	968794		
415-367 = .248192	.027584	1715-1667 = .249562	.030330		
128-512-464 = 365.25	513-465 = .249512	997082 ✓	453-1812-1764 = 365.25	1813-1765 = .249862	999172
514-466 = .249027	968794	1814-1766 = .249724	968794		
515-467 = .248543	.028288	1815-1767 = .249586	.030378		
153-612-564 = 365.25	613-565 = .249592	997557	478-1912-1864 = 365.25	1913-1865 = .249869	
614-566 = .249185	968794	1914-1866 = .249738			
615-567 = .248780	028763	1915-1867 = .249608			
178-712-664 = 365.25	713-665 = .249649	997897		999215	
714-666 = .249297	968794	029103		968794	
715-667 = .248951				.030421	
203-812-764 = 365.25	813-765 = .249692	998156			
814-766 = .249385	968794	029362			
815-767 = .249079					
228-912-864 = 365.25	913-865 = .249726	998358			
914-866 = .249452	968794	029564			
915-867 = .249180					
253-1012-964 = 365.25	1013-965 = .249753	998520			
1014-966 = .249504	968794	029726			
1015-967 = .249261					
278-1112-1064 = 365.25	1113-1065 = .249775	998653			
1114-1066 = .249551	968794	029859			
1115-1067 = .249327					
303-1212-1164 = 365.25	1213-1165 = .249793	998763			
1214-1166 = .249588	968794	029969			
1215-1167 = .249382					
328-1312-1264 = 365.25	1313-1265 = .249809	998856			
1314-1266 = .249619	968794	030062			
1315-1267 = .249428					

29-116-68 = 325.25	.247863	.987322	379-1516-1468 = 365.25	.249835	999011
117-69 =	.245762	968794	1517-1469 =	.249670	968794
118-70 =	.243697	.018528 ✓	1518-1470 =	.249506	.030217
119-71 =			1519-1471 =		
54-216-168 = 365.25	.248847	993128	404-1616-1568 = 365.25	.249845	999071
217-169 =	.247706	968794	1617-1569 =	.249690	968794
218-170 =	.246575	.024334 ✓	1618-1570 =	.249536	.030277
219-171 =			1619-1571 =		
79-316-268 = 365.25	.249211	995286	429-1716-1668 = 365.25	.249854	999125
317-269 =	.248427	968794 ✓	1717-1669 =	.24970.8	968794
318-270 =	.247648	.026492	1718-1670 =	.249563	.030331
319-271 =			1719-1671 =		
104-416-368 = 365.25	.249400	996413	454-1816-1768 = 365.25	.249862	999173
417-369 =	.248803	968794 ✓	1817-1769 =	.249724	968794
418-370 =	.248210	.027619	1818-1770 =	.249587	.030379
419-371 =			1819-1771 =		
129-516-468 = 365.25	.249516	997104	479-1916-1868 = 365.25	.249869	999217
517-469 =	.249034	968794 ✓	1917-1869 =	.249739	968794
518-470 =	.248554	.028310	1918-1870 =	.249609	.030423
519-471 =			1919-1871 =		
154-616-568 = 365.25	.249594	997572			
617-569 =	.249190	968794			
618-570 =	.248788	.028778			
619-571 =					
179-716-668 = 365.25	.249651	997910			
717-669 =	.249303	968794			
718-670 =	.248956	.029116			
719-671 =					
204-816-768 = 365.25	.249694	998166			
817-769 =	.249388	968794			
818-770 =	.249084	.029372			
819-771 =					
229-916-868 = 365.25	.249727	998365			
917-869 =	.249455	968794			
918-870 =	.249183	.029571			
919-871 =					
254-1016-968 = 365.25	.249754	998525			
1017-969 =	.249508	968794			
1018-970 =	.249263	.029731			
1019-971 =					
279-1116-1068 = 365.25	.249776	998657			
1117-1069 =	.249552	968794			
1118-1070 =	.249329	.029863			
1119-1071 =					
304-1216-1168 = 365.25	.249794	998767			
1217-1169 =	.249589	968794			
1218-1170 =	.249384	.029973			
1219-1171 =					
329-1316-1268 = 365.25	.249810	998861			
1317-1269 =	.249620	968794			
1318-1270 =	.249431	.030067			
1319-1271 =					
354-1416-1368 = 365.25	.249823	998941			
1417-1369 =	.249647	968794			
1418-1370 =	.249471	.030149			
1419-1371 =					

30-120-72=365.25
 121-73 .247983 987736
 122-74 .245901 968794
 123-75 .243902 018972 ✓

55-220-172=365.25
 221-173 .248868 993251
 222-174 .247747 968794
 223-175 .246686 024457 ✓

80-320-272=365.25
 321-273 .249221 995345
 322-274 .248447 968794 ✓
 323-275 .247677 026551

105-420-372=365.25
 421-373 .249406 996447
 422-374 .248815 968794 ✓
 423-375 .248226 027653

130-520-472=365.25
 521-473 .249520 997127
 522-474 .249042 968794 ✓
 523-475 .248565 028333

155-620-572=365.25
 621-573 .249597 997589
 622-574 .249196 968794
 623-575 .248796 028795

180-720-672=365.25
 721-673 .249653 997922
 722-674 .249307 968794
 723-675 .248962 029128

205-820-772=365.25
 821-773 .249695 998174
 822-774 .249391 968794
 823-775 .249088 029380

230-920-872=365.25
 921-873 .249728 998372
 922-874 .249457 968794
 923-875 .249187 029578

255-1020-972=365.25
 1021-973 .249755 998531
 1022-974 .249510 968794
 1023-975 .249266 029737

280-1120-1072=365.25
 1121-1073 .249776 998662
 1122-1074 .249554 968794
 1123-1075 .249332 029868

305-1220-1172=365.25
 1221-1173 .249795 998771
 1222-1174 .249590 968794
 1223-1175 .249386 029977

330-1320-1272=365.25
 1321-1273 .249810 998863
 1322-1274 .249621 968794
 1323-1275 .249432 968794
 030069

355-1420-1372=365.25
 1421-1373 .249824 998944
 1422-1374 .249648 968794
 1423-1375 .249472 030150

380-1520-1472=365.25
 1521-1473 .249835 999013
 1522-1474 .249671 968794
 1523-1475 .249507 030219

405-1620-1572=365.25
 1621-1573 .249845 999073
 1622-1574 .249691 968794
 1623-1575 .249537 030279

430-1720-1672=365.25
 1721-1673 .249854 999127
 1722-1674 .249709 968794
 1723-1675 249564 030333

455-1820-1772=365.25
 1821-1773 .249862 999175
 1822-1774 .249725 968794
 1824-1775 .249588 030381

480-1920-1872=365.25
 1921-1873 .249869
 1922-1874 .249739
 1923-1875 .249609
 999217
 968794
 030423

20th Row

31-124-76 = 365.25 ^{OK}	125-77 = .248	988125	381-1524-1476 = 325.25	
126-78 = .1246031	968794	1525-1477 = .249836	999016	
127-79 = .244094	019331 ✓	1526-1478 = .249672	968794	
		1527-1479 = .249508	030222	
56-224-176 = 365.25 ^{OK}	225-177 = .248888	993371	406-1624-1576 = 325.25	
226-178 = .247787	968794	1625-1577 = .249846	999077	
227-179 = .246696	024577 ✓	1626-1578 = .249692	968794	
81 = 324-276 = 365.25 ^{OK}	325-277 = .249230	995402	1627-1579 = .249539	030283
326-278 = .248466	968794 ✓	431-1724-1676 = 365.25	1725-1677 = .249855	999130
327-279 = .247706	026608	1726-1678 = .249710	968794	
106 = 424-376 = 365.25 ^{OK}	425-377 = .249411	996480 ✓	1727-1679 = .249565	030335
426-378 = .248826	968794	456-1824-1776 = 365.25	1825-1777 = .249863	999178
427-379 = .248243	027686	1826-1778 = .249726	968794	
131-524-476 = 365.25 ^{OK}	525-477 = .249523	997148 ✓	1827-1779 = .249589	030384
526-478 = .249049	968794 ✓	481-1924-1876 = 365.25	1925-1877 = .249870	999220
527-479 = .248576	028354	1926-1878 = .249740	968794	
156-624-576 = 365.25 ^{OK}	625-577 = .2496	997604	1927-1879 = .249610	030426
626-578 = .249201	968794	181-724-676 = 365.25 ^{OK}		
627-579 = .248803	028810	725-677 = .249655	997934	
		726-678 = .249311	968794	
		727-679 = .248968	029140	
206-824-776 = 365.25 ^{OK}	825-777 = .249696	998183		
826-778 = .249394	968794			
827-779 = .249093	029389			
231-924-876 = 365.25 ^{OK}	925-877 = .249729	998379		
926-878 = .249460	968794			
927-879 = .249190	029585			
256-1024-976 = 365.25 ^{OK}	1025-977 = .249756	998537		
1026-978 = .249512	968794			
1027-979 = .249269	029743			
281-1124-1076 = 365.25 ^{OK}	1125-1077 = .249777	998666		
1126-1078 = .249555	968794			
1127-1079 = .249334	029872			
306-1224-1176 = 365.25	1225-1177 = .249795	998775		
1226-1178 = .249592	968794			
1227-1179 = .249388	029981			
331-1324-1276 = 365.25	1325-1277 = .249811	998867		
1326-1278 = .249622	968794			
1327-1279 = .249434	030073			
356-1424-1376 = 365.25	1425-1377 = .249824	998947		
1426-1378 = .249649	968794			
1427-1379 = .249474	030153			

32-128-80 = 365.25
129-81 = .248062
130-82 = .246153
131-83 = .244274

988489
968794
.019695 ✓

382-1528-1480 = 365.25
1529-1481 = .249836
1530-1482 = .249673
1531-1483 = .249510

999019
968794
.030225

57-228-180 = 365.25
229-181 = .248908
230-182 = .247826
231-183 = .246753

993487
968794
.024693 ✓

407-1628-1580 = 365.25
1629-1581 = .249846
1630-1582 = .249693
1631-1583 = .249540

999079
968794
.030285

82-328-280 = 365.25
329-281 = .249240
330-282 = .248484
331-283 = .247734

.995458
968794
.026664 ✓

432-1728-1680 = 365.25
1729-1681 = .249855
1730-1682 = .249710
1731-1683 = .249566

999131
968794
.030337

107-428-380 = 365.25
429-381 = .249417
430-382 = .248837
431-383 = .248259

996513
968794
.027719 ✓

457-1828-1780 = 365.25
1829-1781 = .249863
1830-1782 = .249726
1831-1783 = .249590

999179
968794
.030385

132-528-480 = 365.25
529-481 = .249527
530-482 = .249056
531-483 = .248587

997170
968794
.028376 ✓

482-1928-1880 = 365.25
1929-1881 = .249870
1930-1882 = .249740
1931-1883 = .249611

999221
968794
.030427

157-628-580 = 365.25
629-581 = .249602
630-582 = .249206
631-583 = .248811

.997619
968794
.028825

182-728-680 = 365.25
729-681 = .249657
730-682 = .249315
731-683 = .248974

997946
968794
.029152

207-828-780 = 365.25
829-781 = .249698
830-782 = .249397
831-783 = .249097

.998192
968794
.029398

232-928-880 = 365.25
929-881 = .249730
930-882 = .249462
931-883 = .249194

998386
968794
.029592

257-1028-980 = 365.25
1029-981 = .249757
1030-982 = .249514
1031-983 = .249272

998543
968794
.029749

282-1128-1080 = 365.25
1129-1081 = .249778
1130-1082 = .249557
1131-1083 = .249336

998671
968794
.029877

307-1228-1180 = 365.25
1229-1181 = .249796
1230-1182 = .249593
1231-1183 = .249390

998779
968794
.029985

332-1328-1280 = 365.25
1329-1281 = .249811
1330-1282 = .249624
1331-1283 = .249436

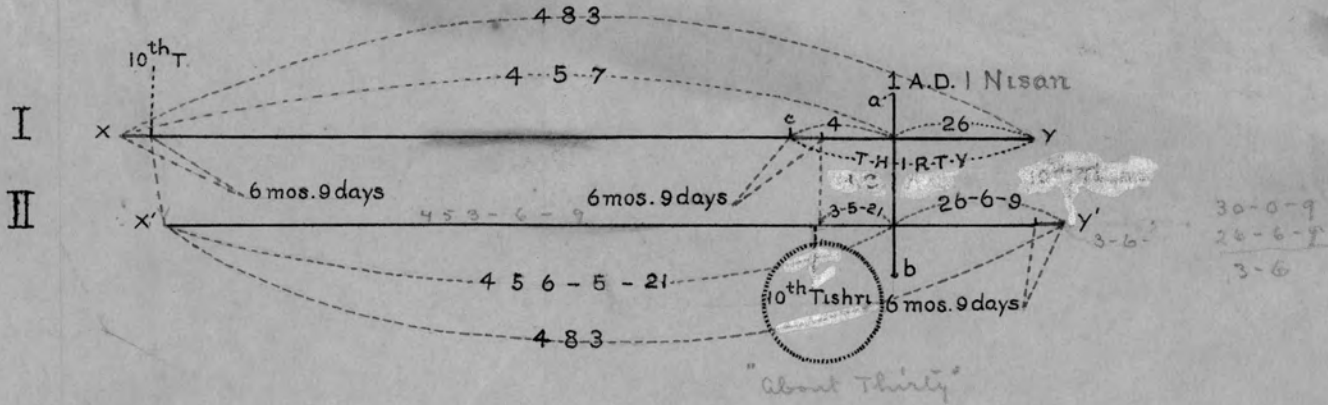
998871
968794
.030077

357-1428-1380 = 365.25
1429-1381 = .249825
1430-1382 = .249650
1431-1383 = .249475

998950
968794
.030156

242198
484396
726594
.022945

125
249846
499846
484896
.010550



July 30

Dear A. G.

Here is the check.

Rec'd your letter with receipt in full from Kuhn. Glad the typewriter arrived OK. Hope it gives you good service.

The possibilities for your teaching are interesting and I hope they may work out for you since you are so well qualified by experience and study.

Let me know when the pump is finished and send the bill.

If you are going to get the floors refinished summer is the time. So go ahead at your own convenience. I recommend shellac and then water-wax - an Emulsion that goes on easily and needs no polishing.

Love from us all,

Dec. 31

14 - 1 - 29.28
118 - 2 - 57.16
<hr/>
-3 86.44

37) Mar. 26 - 23 - 12.2 =
 Mar (25 - 23 - 12.2)
 8 - 16 - 18
 (34 - 15 - 30.2) =
 Mar 35 - 15 - 30.2 =
 Apr 4 - 15 - 30.2 = Sat

Dec. 20 - 20 - 53.3
2 57
<hr/>
20 - 23 140.3
10

18
<hr/>
29.530588 3
4 3
<hr/>
39 18.1 223 52 Sat
24 2
<hr/>
489405
244708
<hr/>
2936448
2 60 3
<hr/>
57.160

Apr. 18-21 - 96 =
 Apr. (17-21-9.6) =
 8-16-18
 (26-13-27.6) =
 27-13-27.6 =
 Friday

Apr. 6-22-46.3 =
 (14-15-18) =
 8-16-18
 (5-22-46.3) =
 (26-13-27.6)
 8-16-18
 Apr. (19-21-9.6)
 Apr. 18-21-9.6

Mar. 31 - 4 - 44.5 =
 Mar. (30-1-14.5)
 8-16-18
 (38-17-32.5)
 Mar. (39-17-32.5) =
 Apr. 8-17-32.5
 Apr. 8-17-32.5
 (78-5-55.6)

Apr. 10-13-37.6 =
 Apr. (9-13-37.6)
 8-16-18

Apr. 5-3-38 =
 (4-3-38)
 8-16-18
 (12-19-56) =
 Apr. 13-19-56

Apr. 19-50.8 =
 Apr. (16-19-50.8) =
 8-16-18
 Apr. 5-3-38 =
 Apr. (4-3-38)
 8-16-18
 Apr. 13-19-56

Apr. 13-19-56 =
 12-19-56
 8-16-18
 Apr. 5-3-38 =
 Apr. (4-3-38)
 8-16-18
 Apr. 19-50.8

Mar. 29-10-8.3
 Apr. 10-13-37.6
 Apr. (9-13-37.6)
 8-16-18
 Apr. 2-2-18.3
 Apr. 2-2-18.3

Mar. 25-7-46.8
 (24-7-46.8)
 8-16-18
 (30-11-54.4) =
 Mar. 31-4-55.4

Apr. 13-8-11 for fuel
 Apr. 13-8-11
 8-16-18
 Apr. 13-8-11
 8-16-18
 Apr. 13-8-11

3 lbs. Crystal for washing clothes
 because dissolved in warm water, it
 makes wonderful sudso and my hard water,
 and does not rot or fade my clothes,
 and leaves a most refreshing odor
 to my wash, with a refreshing odor

Mar. 22-12-37.4 =
 Mar. (21-12-37.4)
 8-16-18
 (30-4-55.4) =
 Mar. 31-4-55.4

IV PASCHAL MOON DATES and their CORRESPONDING DAYS
For the Twentieth Century 101st Cycle

Gold. Num.	Year	Day on Jan. 1	Date	Day of Full Moon
2	1901	Tues.	April 3	Wednesday
3	1902	Wed.	March 23	Sunday
4	1903	Thurs.	April 11	Saturday
5	1904-	Fri.	March 31	Thursday
6	1905	Sun.	April 18	Tuesday
7	1906	Mon.	April 8	Sunday
8	1907	Tues.	March 28	Thursday
9	1908 -	Wed.	April 16	Thursday
10	1909	Fri.	April 4	Sunday
11	1910	Sat.	March 25	Friday
12	1911	Sun.	April 13	Thursday
13	1912-	Mon.	April 2	Tuesday
14	1913	Wed.	March 22	Saturday
15	1914	Thurs.	April 10	Friday
16	1915	Fri.	March 30	Tuesday
17	1916 -	Sat.	April 17	Monday
18	1917	Mon.	April 7	Saturday
19	1918	Tues.	March 27	Wednesday

By adding 8 days and 16 hours to the dates in Table IV the dates for the First Century are obtained.

V PASCHAL MOON DATES and their CORRESPONDING DAYS
For the First Century- First Cycle

Gold. Num.	Year	Day on Jan. 1	Date	Day of Full Moon
2	1	Mon.	April 12	Thursday
3	2	Tues.	April 1	Monday
4	3	Wed.	April 20	Sunday
5	4 -	Thurs.	April 9	Friday - 1
6	5	Sat.	April 27	Wednesday
7	6	Sun.	April 17	Monday
8	7	Mon.	April 6	F R I D A Y - 2
9	8 -	Tues.	April 25	Friday - 3
10	9	Thurs.	April 13	Monday
11	10	Fri.	April 3	Saturday
12	11	Sat.	April 22	Friday - 4
13	12	Sun.	April 11	Wednesday
14	13	Tues.	March 31	Sunday
15	14	Wed.	April 19	Saturday
16	15	Thurs.	April 8	Wednesday
17	16 -	Fri.	April 26	Tuesday
18	17	Sunday	April 16	Sunday
19	18	Mon.	April 5	Thursday

- 2 Jesus 12 years old

31 A.D.	
Jan. 1	W 125 13L
2	
3	
4	S
5	
6	
7	
8	
9	
10	
11	S
12	
13	
14	
15	
16	
17	
18	S
19	
20	
21	
22	
23	S
24	
25	
26	
27	
28	
29	
30	S
31	
Feb. 1	S
2	
3	
4	
5	
6	
7	
8	S
9	
10	
11	
12	
13	
14	S
15	
16	
17	
18	
19	
20	
21	
22	S
23	
24	
25	
26	
27	
28	
Mar. 1	S
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	X
22	
23	
24	
25	
26	
27	
28	
29	X
30	
31	
April 1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	X

3 B.C.						
25 18C						
Birth day	1	105	2	L		
B.C.	2	1	M			
A.D.	(1	4	F			
	2	5	S			
	3	6	M			
	4	7	T			
	5	8	F			
	6	9	S			
	7	10	M			
	8	11	T			
	9	12	F			
	10	13	S			
	11	14	M			
	12	15	T			
	13	16	F			
	14	17	S			
	15	18	M			
	16	19	T			
	17	20	F			
	18	21	S			
	19	22	M			
	20	23	T			
	21	24	F			
	22	25	S			
	23	26	M			
	24	27	T			
	25	28	F			
	26	29	S			
	27	30	M			
	28	31	T			
	29	32	F			
	30	33	S			
	31	34	M			
← 34 th year						
Mar						
Apr						
May						

(5	4	W	6					
3	3	T	7	-			18	Sun
2	2	F	8				19	1
1	1	M	9				2	3
A.D.	(1	2	10	Solar	*		3	
	3	3	11	W			4	8
	4	4	12	T			5	7
	5	5	13	F			6	8
	6	6	14	S			7	9
	7	7	15	M			8	10
	8	8	16	T			9	11
	9	9	17	F			10	12
	10	10	18	S			11	13
	11	11	19	M			12	14
	12	12	20	T			13	15
	13	13	21	F			14	16
	14	14	22	S			15	17
	15	15	23	M			16	18
	16	16	24	T			17	19
	17	17	25	F			18	20
	18	18	26	S			19	21
	19	19	27	M			20	22
	20	20	28	T			21	23
	21	21	29	F			22	24
	22	22	30	S			23	25
	23	23	31	M			24	26
W	24	24	10	T			25	27
	25	25	11	F			26	28
	26	26	12	S			27	29
	27	27	13	M			28	30
	28	28	14	T			29	31
	29	29	15	F			30	
	30	30	16	S			31	
	31	31	17	M				
			18	T				
			19	F				
			20	S				
			21	M				
			22	T				
			23	F				
			24	S				
			25	M				
			26	T				
			27	F				
			28	S				
			29	M				
			30	T				
			31	F				

1. Apr 14 = moon 6 days old
2. " 12 = " 12 "

Passover on April 12, year of Christ's birth
85 Mar 21
75 of Huxel

7
1 1 2 3 4 5 6 7 8

How is the Passover regulated each year? In the time
on the same schedule now as in the 1st century?

Abraham to David =

BC 380 = 1st year of Melchizedek
Cycles
3,1
292
273
254
235
216
197
178
159
140
121
102
83
64
45
26
7

335
315
296
277
258
239
220
201
182
163
144
125
106
87
68
49
30
11
2

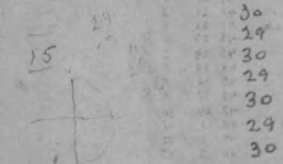
146
118
28

7
6
5
4
3
2
1
7

June 28	18	76	1
29	19	77	12
30	20	78	23
1	21	79	34
2	22	80	45
3	23	81	56
4	24	82	67
5	25	83	78
6	26	84	89
7	27	85	90
8	28	86	1
9	29	87	12
10	30	88	23
11	1	89	34
12	2	90	45
13	3	91	56
14	4	92	67
15	5	93	78
16	6	94	89
17	7	95	90
18	8	96	1

43 Sunas =

19 revolutions of Juno + 9 1/2 hrs
235 lunations + 7 1/2 hrs.



12 Sunas = 29
30
29
30
29
30
29
30
30
29
30
30
29

31
0
24
22-23

36
24

29-10 21-2-13-24-5-16-27-8-19-70

7
6
5
4
3
2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

a. J. 31

Mar. 21 = 15 - 64 15 Jun 1
" 28 = 22 - 72
Apr. 4 = 29 - 79
" 11 = 6 - 86
" 18 = 13 - 93
" 25 = 20 - 100

Apr. 5 no 30 and 31 was
new moon

12-48-1 P.C. = 365.25
 49-1 A.D. = 365.244897
 50-2 = 365.24
 51-3 = 365.235294

13-52-4 = 365.25
 53-5 = 365.245283
 54-6 = 365.240740
 55-7 = 365.236363

14-56-8 = 365.25
 57-9 = 365.245614
 58-10 = 365.241379
 59-11 = 365.237288

15-60-12 = 365.25
 61-13 = .245901
 62-14 = .241935
 63-15 = .238095

16-64-16 = 365.25
 65-17 = .246153
 66-18 = .242424
 67-19 = .238805

17-68-20 = 365.25
 69-21 = .246376
 70-22 = .242857
 71-23 = .239436

18-72-24 = 365.25
 73-25 = .246575
 74-26 = .243243
 75-27 = .24

19-76-28 = 365.25
 77-29 = .246753
 78-30 = .243589
 79-31 = .240506

20-80-32 = 365.25
 81-33 = .246913
 82-34 = .243902
 83-35 = .240963

21-84-36 = 365.25
 85-37 = .247058
 86-38 = .244186
 87-39 = .241379

22-88-40 = 365.25
 89-41 = .247191
 90-42 = .244444
 91-43 = .241758

23-92-44 = 365.25
 93-45 = .247311
 94-46 = .244680
 95-47 = .242105

24-96-48 = 365.25
 97-49 = .247422
 98-50 = .244897
 99-51 = .242424

.970191
 .968794
 .001397

.972386
 .968794
 .003592

.974281
 .968794
 .005487

.975931
 .968794
 .007137

.977382
 .968794
 .008588

.978669
 .968794
 .009875

.979818
 .968794
 .011029

.980848
 .968794
 .012054

.981778
 .968794
 .012984

.982623
 .968794
 .013829

.983393
 .968794
 .014599

.984096
 .968794
 .015302

.984743
 .968794
 .015949

25-100-52 = 365.25
 101-53 = .247524
 102-54 = .245098
 103-55 = .242718

26-104-56 = 365.25
 105-57 = .247619
 106-58 = .245283
 107-59 = .242990

27-108-60 = 365.25
 109-61 = .247706
 110-62 = .245454
 111-63 = .243243

28-112-64 = 365.25
 113-65 = .247787
 114-66 = .245614
 115-67 = .243478

29-116-68 = 365.25
 117-69 = .247863
 118-70 = .245762
 119-71 = .243697

30-120-72 = 365.25
 121-73 = .247933
 122-74 = .245901
 123-75 = .243902

31-124-76 = 365.25
 125-77 = .248
 126-78 = .246031
 127-79 = .244094

32-128-80 = 365.25
 129-81 = .248062
 130-82 = .246153
 131-83 = .244274

33-132-84 = 365.25
 133-85 = .248120
 134-86 = .246268
 135-87 = .244444

34-136-88 = 365.25
 137-89 = .248195
 138-90 = .246376
 139-91 = .244604

35-140-92 = 365.25
 141-93 = .248226
 142-94 = .246478
 143-95 = .244755

36-144-96 = 365.25
 145-97 = .248275
 146-98 = .246575
 147-99 = .244897

37-148-100 = 365.25

.985340
 .968794
 .016546

.985892
 .968794
 .017098

.986403
 .968794
 .017609

.986879
 .968794
 .018085

.987322
 .968794
 .018528

.987736
 .968794
 .018942

.988125
 .968794
 .019331

.988489
 .968794
 .019695

.988832
 .968794
 .020038

.989155
 .968794
 .020364

.989459
 .968794
 .020665

.989747
 .968794
 .020953

O.K.

12-49-1 = 265.244897
 50-2 = 365.24
 51-3 = 365.235294
 13-52-4 = 366.25

.970191
 49687948

 .001396

359643
 020952
 020664
 020360
 020037
 019694
 019330
 018941
 018527
 018084
 017608
 017097
 016545
 015948
 015301
 014598
 013828
 012983
 012053
 011023
 009874
 008587
 007136
 005486
 003591
 .001396

12th Row

12-48 = .25
49 = .244897
50 = .24
51 = .235294

970191
968794

.001397

36-148 = .243243
149 = 241610
150 = 24
151 = 238410

963263
968794

.005531 -

60-248 = 241935
249 = 240763
250 = 24
251 = 239043

961941
968794

006853 -

84-348 = 241379
349 = 240687
350 = 24
351 = 239316

961382
968794

007412 -

109-448 = 243303
449 = 242761
450 = 242227
451 = 241685

969971
968794

.001177

133-548 = 242700
549 = 242258
550 = 241818
551 = 241379

968155
968794

.000639 -

157-648 = 242283
649 = 241910
650 = 241538
651 = 241167

966898
968794

.001896 -

181-748 = 241978
749 = 241655
750 = 241333
751 = 241011

965977
968794

002817 -

206-848 = 242924
849 = 242638
850 = 242352
851 = 242068

969982
968794

.001188

230-948 = 242616
949 = 242360
950 = 242105
951 = 241850

968931
968794

.000137

248
254-1048 = 242366
224 1049 = 242135
20 1050 = 241904
176 1051 = 241674

968079
968794

.000725 -

278-1148 = 242160
1149 = 241949
1150 = 241739
1151 = 241529

967377
968794

.001417 -

303-1248 = 242788
324 1249 = 242597
300 1250 = 2424
276 1251 = 242206

969988
968794

.001194

327-1348 = 242581
1349 = 242401
1350 = 242222
1351 = 242042

969246
968794

.000452

351-1448 = 242403
1449 = 242236
1450 = 242068
1451 = 241902

968609
968794

000185

375-1548 = 242248
1549 = 242091
1550 = 241903
1551 = 241779

968021
968794

.000773

400-1648 = 242718
424 1649 = 242571
400 1650 = 242424
376 1651 = 242277

969990
968794

001196

424-1748 = 242562
1749 = 242424
1750 = 242285
1751 = 242147

969418
968794

.000624

448-1848 = 242424
1849 = 242293
1850 = 242162
1851 = 242031

968910
968794

.000116

472-1948 = 242299
1949 = 242175
1950 = 242051
1951 = 241927

968452
968794

.000342

4010096120
2080769 40 120 120
2080 20 112 117
14) 30 214280
093740

26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

24) 20 166666
29) 70 241379
26) 60 23099 240
13) 38 230769 40 120 120
14) 30 214280
093740

425 - 1752 - 1704 = 242579	969488	437 - 1800 - 1752 = 242777	970300
1753 - 1705 = 242441	968794	1801 - 1753 = 242642	968794
1754 - 1706 = 242303	000694	1802 - 1754 = 242508	001506
1755 - 1707 = 242165		1803 - 1755 = 242373	
426 - 1756 - 1708 = 242596	969557	438 - 1804 - 1756 = 242793	970366
1757 - 1709 = 242458	968794	1805 - 1757 = 242659	968794
1758 - 1710 = 242320	000763	1806 - 1758 = 242524	001572
1759 - 1711 = 242183		1807 - 1759 = 242390	
427 - 1760 - 1712 = 242613	969626	439 - 1808 - 1760 = 242809	970432
1761 - 1713 = 242475	968794	1809 - 1761 = 242675	968794
1762 - 1714 = 242338	000832	1810 - 1762 = 242541	001638
1763 - 1715 = 242200		1811 - 1763 = 242407	
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1765 - 1717 = 242492	968794	1813 - 1765 = 242691	968794
1766 - 1718 = 242355	000901	1814 - 1766 = 242557	001703
1767 - 1719 = 242218		1815 - 1767 = 242424	
429 - 1768 - 1720 = 242647	969764	441 - 1816 - 1768 = 242841	070562
1769 - 1721 = 242509	968794	1817 - 1769 = 242707	968794
1770 - 1722 = 242372	000970	1818 - 1770 = 242574	001768
1771 - 1723 = 242236		1819 - 1771 = 242440	
430 - 1772 - 1724 = 242663	969832	442 - 1820 - 1772 = 242857	970627
1773 - 1725 = 242526	968794	1821 - 1773 = 242723	968794
1774 - 1726 = 242390	001038	1822 - 1774 = 242590	001833
1775 - 1727 = 242253		1823 - 1775 = 242457	
431 - 1776 - 1728 = 242680	969900	443 - 1824 - 1776 = 242872	970691
1777 - 1729 = 242543	968794	1825 - 1777 = 242739	968794
1778 - 1730 = 242407	001106	1826 - 1778 = 242606	001897
1779 - 1731 = 242270		1827 - 1779 = 242474	
432 - 1780 - 1732 = 242696	969968	444 - 1828 - 1780 = 242888	970755
1781 - 1733 = 242560	968794	1829 - 1781 = 242755	968794
1782 - 1734 = 242424	001174	1830 - 1782 = 242622	001961
1783 - 1735 = 242288		1831 - 1783 = 242490	
433 - 1784 - 1736 = 242713	970036	445 - 1832 - 1784 = 242903	970819
1785 - 1737 = 242577	968794	1833 - 1785 = 242771	968794
1786 - 1738 = 242441	001242	1834 - 1786 = 242639	002025
1787 - 1739 = 242305		1835 - 1787 = 242506	
434 - 1788 - 1740 = 242729	970102	446 - 1836 - 1788 = 242919	970884
1789 - 1741 = 242593	968794	1837 - 1789 = 242787	968794
1790 - 1742 = 242458	001308	1838 - 1790 = 242655	002090
1791 - 1743 = 242322		1839 - 1791 = 242523	
435 - 1792 - 1744 = 242745	970168	447 - 1840 - 1792 = 242934	970946
1793 - 1745 = 242610	968794	1841 - 1793 = 242802	968794
1794 - 1746 = 242474	001374	1842 - 1794 = 242671	002152
1795 - 1747 = 242339		1843 - 1795 = 242539	
436 - 1796 - 1748 = 242761	970234	448 - 1844 - 1796 = 242950	971009
1797 - 1749 = 242626	968794	1845 - 1797 = 242818	968794
1798 - 1750 = 242491	001440	1846 - 1798 = 242686	002215
1799 - 1751 = 242356		1847 - 1799 = 242555	
		1848 - 1800 = 242424	968910
		1849 - 1801 = 242293	968794
		1850 - 1802 = 242162	000116
		1851 - 1803 = 242031	

449 - 1852 - 1804 = 242440
 1853 - 1805 = 242309
 1854 - 1806 = 242179
 1855 - 1807 = 242048
 450 - 1856 - 1808 = 242456
 1857 - 1809 = 242326
 1858 - 1810 = 242195
 1859 - 1811 = 242065
 451 - 1860 - 1812 = 242473
 1861 - 1813 = 242342
 1862 - 1814 = 242212
 1863 - 1815 = 242082
 452 - 1864 - 1816 = 242489
 1865 - 1817 = 242359
 1866 - 1818 = 242229
 1867 - 1819 = 242099
 453 - 1868 - 1820 = 242505
 1869 - 1821 = 242375
 1870 - 1822 = 242246
 1871 - 1823 = 242116
 454 - 1872 - 1824 = 242521
 1873 - 1825 = 242391
 1874 - 1826 = 242262
 1875 - 1827 = 242133
 455 - 1876 - 1828 = 242537
 1877 - 1829 = 242408
 1878 - 1830 = 242279
 1879 - 1831 = 242150
 456 - 1880 - 1832 = 242553
 1881 - 1833 = 242424
 1882 - 1834 = 242295
 1883 - 1835 = 242166
 457 - 1884 - 1836 = 242569
 1885 - 1837 = 242440
 1886 - 1838 = 242311
 1887 - 1839 = 242183
 458 - 1888 - 1840 = 242584
 1889 - 1841 = 242456
 1890 - 1842 = 242328
 1891 - 1843 = 242199
 459 - 1892 - 1844 = 242600
 1893 - 1845 = 242472
 1894 - 1846 = 242344
 1895 - 1847 = 242216
 460 - 1896 - 1848 = 242616
 1897 - 1849 = 242488
 1898 - 1850 = 242360
 1899 - 1851 = 242232
 461 - 1900 - 1852 = 242631
 1901 - 1853 = 242503
 1902 - 1854 = 242376
 1903 - 1855 = 242249
 462 - 1904 - 1856 = 242647
 1905 - 1857 = 242519
 1906 - 1858 = 242392
 1907 - 1859 = 242265
 463 - 1908 - 1860 = 242662
 1909 - 1861 = 242535
 1910 - 1862 = 242408
 1911 - 1863 = 242281

9689766
968794
 000182
 969042
968794
 000248
 969109
968794
 000315
 969176
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 000382
 969242
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 000773
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 000838
 969696
968794
 000902
 969759
968794
 000965
 969823
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 001029
 969886
968794
 001092

464 - 1912 - 1864 = 242677
 1913 - 1865 = 242550
 1914 - 1866 = 242424
 1915 - 1867 = 242297
 465 - 1916 - 1868 = 242693
 1917 - 1869 = 242566
 1918 - 1870 = 242440
 1919 - 1871 = 242313
 466 - 1920 - 1872 = 242708
 1921 - 1873 = 242581
 1922 - 1874 = 242455
 1923 - 1875 = 242329
 467 - 1924 - 1876 = 242723
 1925 - 1877 = 242597
 1926 - 1878 = 242471
 1927 - 1879 = 242345
 468 - 1928 - 1880 = 242738
 1929 - 1881 = 242612
 1930 - 1882 = 242487
 1931 - 1883 = 242361
 469 - 1932 - 1884 = 242753
 1933 - 1885 = 242628
 1934 - 1886 = 242502
 1935 - 1887 = 242377
 470 - 1936 - 1888 = 242768
 1937 - 1889 = 242643
 1938 - 1890 = 242518
 1939 - 1891 = 242392
 471 - 1940 - 1892 = 242783
 1941 - 1893 = 242658
 1942 - 1894 = 242533
 1943 - 1895 = 242408
 472 - 1944 - 1896 = 242798
 1945 - 1897 = 242673
 1946 - 1898 = 242548
 1947 - 1899 = 242424
 473 - 1948 - 1900 = 242299
 1949 - 1901 = 242175
 1950 - 1902 = 242051
 1951 - 1903 = 241927
 474 - 1952 - 1904 = 242315
 1953 - 1905 = 242191
 1954 - 1906 = 242067
 1955 - 1907 = 241943
 475 - 1956 - 1908 = 242331
 1957 - 1909 = 242207
 1958 - 1910 = 242083
 1959 - 1911 = 241960
 476 - 1960 - 1912 = 242346
 1961 - 1913 = 242223
 1962 - 1914 = 242099
 1963 - 1915 = 241976
 477 - 1964 - 1916 = 242362
 1965 - 1917 = 242239
 1966 - 1918 = 242115
 1967 - 1919 = 241992
 478 - 1968 - 1920 = 242377
 1969 - 1921 = 242254
 1970 - 1922 = 242131
 1971 - 1923 = 242009
 479 - 1972 - 1924 = 242393
 1973 - 1925 = 242270
 1974 - 1926 = 242147
 1975 - 1927 = 242025
 1976 - 1928 = 242408
 1977 - 1929 = 242286
 1978 - 1930 = 242163
 1979 - 1931 = 242041

969948
968794
 001154
 970012
968794
 001218
 970073
968794
 001279
 970136
968794
 001342
 970198
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 970260
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 001466
 970321
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 970382
968794
 001588
 970443
968794
 001649
 968452
968794
 000342
 968516
968794
 000278
 968581
968794
 000213
 968644
968794
 000150
 968708
968794
 000086
 968771
968794
 000023
 968835
968794
 000041
 968898
968794
 000104

148-100 = 243243
149- = 241610
150- = 24
151- = 238410

963263
968794
005531

50-204-136 = 245098
205- = 243902
206- = 242718
207- = 241545

973263
968794
004469

37-152-104 = 243421
153- = 241830
154- = 240259
155- = 238709

964219
968794
004575

51-208-160 = 245192
209- = 244019
210- = 242857
211- = 241706

973774
968794
004980

38-156-108 = 243589
157- = 242038
158- = 240506
159- = 238990

965123
968794
003671

52-212-164 = 245283
213- = 244131
214- = 242990
215- = 241860

974264
968794
005470

39-160-112 = 243750
161- = 242236
162- = 240740
163- = 239263

965989
968794
002805

53-216-168 = 245370
217 = 244239
218 = 243119
219 = 242009

974737
968794
005943

40-164-116 = 243902
165- = 242424
166- = 240963
167- = 239520

966809
968794
001985

54-220-172 = 245454
221 = 244343
222 = 243243
223 = 242152

975192
968794
006398

41-168-120 = 244047
169- = 242603
170- = 241176
171- = 239766

967592
968794
001202

55-224-176 = 245530
225 = 244444
226 = 243362
227 = 242290

975631
968794
006837

42-172-124 = 244186
173 = 242774
174 = 241379
175 = 24

968339
968794
000455

56-228-180 = 245614
229 = 244541
230 = 243478
231 = 242424

976057
968794
007263

43-176-128 = 244318
177 = 242937
178 = 241573
179 = 240223

969051
968794
000257

57-232-184 = 245689
233 = 244635
234 = 243589
235 = 242553

976466
968794
007672

44-180-132 = 244444
181 = 243093
182 = 241758
183 = 240437

969732
968794
000938

58-236-188 = 245762
237 = 244725
238 = 243697
239 = 242677

976861
968794
008067

45-184-136 = 244565
185 = 243243
186 = 241935
187 = 240641

970384
968794
001590

59-240-192 = 245833
241 = 244813
242 = 243801
243 = 242798

977245
968794
008451

46-188-140 = 244680
189 = 243386
190 = 242105
191 = 240837

971008
968794
002214

60-244-196 = 245901
245 = 244897
246 = 246902
247 = 242914

980614
968794
011820

47-192-144 = 244791
193 = 243523
194 = 242268
195 = 241025

971607
968794
002813

248-200 = 241935
249 = 240963
250 = 24
251 = 239043

961941
968794
006853

48-196-148 = 244897
197 = 243654
198 = 242424
199 = 241206

972181
968794
003387

70-252

49-200-152 = 245
201 = 243781
202 = 242574
203 = 241379

972734
968794
003940

(60) 248 - 200 = 241935
 249 = 240963
 250 = 24
 251 = 239043
 61 - 252 - 204 = 242063
 253 = 241106
 254 = 240157
 255 = 239215
 62 - 256 - 208 = 242187
 257 = 241245
 258 = 240310
 259 = 239382
 63 - 260 - 212 = 242307
 261 = 241379
 262 = 240458
 263 = 239543
 64 - 264 - 216 = 242424
 265 = 241509
 266 = 240601
 267 = 239700
 65 - 268 - 220 = 242537
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 270 = 240740
 271 = 239852
 66 - 272 - 224 = 242647
 273 = 241758
 274 = 240875
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 67 - 276 - 228 = 242753
 277 = 241877
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 279 = 240143
 68 - 280 - 232 = 242857
 281 = 241992
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 69 - 284 - 236 = 242957
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 286 = 241258
 287 = 240418
 70 - 288 - 240 = 243055
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 291 = 240549
 71 - 292 - 244 = 243150
 293 = 242320
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 295 = 240677
 72 - 296 - 248 = 243243
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 73 - 300 - 252 = 243333
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 74 - 304 - 256 = 243421
 305 = 242622
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 75 - 308 - 260 = 243506
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 76 - 312 - 264 = 243589
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 77 - 316 - 268 = 243670
 317 = 242902
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 78 - 320 - 272 = 243750
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 323 = 241486
 79 - 324 - 276 = 243827
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 81 - 332 - 284 = 243975
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 82 - 336 - 288 = 244047
 337 = 243323
 338 = 242603
 339 = 241887
 83 - 340 - 292 = 244117
 341 = 243401
 342 = 242690
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 84 - 344 - 296 = 244186
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300 years

348 - 300 = 241379
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85 - 352 - 304 = 241477
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86 - 356 - 308 = 241573
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87 - 360 - 312 = 241666
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 362 = 240331
 363 = 239669

88 - 364 - 316 = 241758
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89 - 368 - 320 = 241847
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90 - 372 - 324 = 241935
 373 = 241286
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91 - 376 - 328 = 242021
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92 - 380 - 332 = 242105
 381 = 241469
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93 - 384 - 336 = 242187
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94 - 388 - 340 = 242268
 389 = 241645
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95 - 392 - 344 = 242346
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96 - 396 - 348 = 242424
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97 - 400 - 352 = 2425
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99 - 408 - 360 = 242647
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100 - 412 - 364 = 242718
 413 = 242130
 414 = 241545
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101 - 416 - 368 = 242788
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 418 = 241626
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102 - 420 - 372 = 242857
 421 = 242280
 422 = 241706
 423 = 241134

103 - 424 - 376 = 242924
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 426 = 241784
 427 = 241217

104 - 428 - 380 = 242990
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106 - 436 - 388 = 243119
 437 = 242562
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107 - 440 - 392 = 243181
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108 - 444 - 396 = 243243
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110 - 452 - 404 = 243362
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111 - 456 - 408 = 243421
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112 - 460 - 412 = 243478
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113 - 464 - 416 = 243534
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 466 = 242489
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114 - 468 - 420 = 243589
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 470 = 242553
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115 - 472 - 424 = 243644
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 474 = 242616
 475 = 242105

116 - 476 - 428 = 243697
 477 = 243186
 478 = 242677
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117 - 480 - 432 = 243750
 481 = 243248
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118 - 484 - 436 = 243801
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119 - 488 - 440 = 243852
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120 - 492 - 444 = 243902
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 501 = 248512
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123 - 504 - 456 = 244047
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124 - 508 - 460 = 244094
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126 - 516 - 468 = 244186
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131 - 536 - 488 = 244402
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158-652-604 = 242331
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 654 = 241590
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159-656-608 = 242378
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 658 = 241641
 659 = 241274

160-660-612 = 242424
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161-664-616 = 242469
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 666 = 241741
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162-668-620 = 242514
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163-672-624 = 242561
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164-676-628 = 242603
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165-680-632 = 242647
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166-684-636 = 242690
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167-688-640 = 242732
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168-692-644 = 242774
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 694 = 242074
 695 = 241726

169-696-648 = 242816
 697 = 242467
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172-708-660 = 242937
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181-748-700

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147 - 604 - 556 = 243377
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134 - 552 - 504 = 242753
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148 - 608 - 560 = 243421
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135 - 556 - 508 = 242805
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149 - 612 - 564 = 243464
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137 - 564 - 516 = 242907
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151 - 620 - 572 = 243548
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138 - 568 - 520 = 242957
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152 - 624 - 576 = 243589
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139 - 572 - 524 = 243006
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153 - 628 - 580 = 243630
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140 - 576 - 528 = 243055
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154 - 632 - 584 = 243670
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141 - 580 - 532 = 243103
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156 - 640 - 592 = 243750
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143 - 588 - 540 = 243197
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157 - 644 - 596 = 243788
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144 - 592 - 544 = 243243
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145 - 596 - 548 = 243288
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146 - 600 - 552 = 243333
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700 years

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182- 752-704 = 242021
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183- 756-708 = 242063
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184- 760-712 = 242105
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185- 764-716 = 242146
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186- 768-720 = 242187
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187- 772-724 = 242228
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188- 776-728 = 242268
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189- 780-732 = 242307
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190- 784-736 = 242346
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191- 788-740 = 242385
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192- 792-744 = 242424
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193- 796-748 = 242462
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 798 = 241854
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197- 812-764 = 242610
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198- 816-768 = 242647
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204- 840-792 = 242857
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205- 844-796 = 242890
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800 Years

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850 = 242352	001188	910 = 242857	003169
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853 = 242672	968794	918 = 243154	968794
854 = 242388	001328	914 = 242888	003291
855 = 242105		915 = 242622	
208-856-808 = 242990	970263	223-916-868 = 243449	972207
857 = 242707	968794	917 = 243184	968794
858 = 242424	001469	918 = 242919	003413
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861 = 242740	968794	921 = 243213	968794
862 = 242459	001606	922 = 242950	003533
863 = 242178		923 = 242686	
210-864-816 = 243055	970537	225-924-876 = 243506	972447
865 = 242774	968794	925 = 243243	968794
866 = 242494	001743	926 = 242980	003653
867 = 242214		927 = 242718	
211-868-820 = 243087	970672	226-928-880 = 243534	972565
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873 = 242840	968794	938 = 243301	968794
874 = 242562	002012	934 = 243040	003889
875 = 242285		935 = 242780	
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877 = 242873	968794	937 = 243329	968794
878 = 242596	002145	938 = 243070	004005
879 = 242320		939 = 242811	
214-880-832 = 243181	971071	229-940-892 = 243617	972915
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882 = 242630	002277	942 = 243099	004121
883 = 242355		943 = 242841	
215-884-836 = 243212	971202	230-944-896 = 243644	973030
885 = 242937	968794	945 = 243386	968794
886 = 242663	002408	946 = 243128	004236
887 = 242390		947 = 242872	
216-888-840 = 243243	971332	230-948-900	
889 = 242969	968794		
890 = 242696	002538		
891 = 242424			
217-892-844 = 243273	971461		
893 = 243001	968794		
894 = 242729	002667		
895 = 242458			
218-896-848 = 243303	971587		
897 = 243032	968794		
898 = 242761	002793		
899 = 242491			
219-900-852 = 243333	971713		
901 = 243063	968794		
902 = 242793	002919		
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220-904-856 = 243362	971837		
905 = 243093	968794		
906 = 242825	003043		
907 = 242557			

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230-948-900 = 242616
 949 = 242360
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 231-952-904 = 242647
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272-1120-1072 = 242857
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1 - 48
 2 - 47
 3 - 46 (1st)
 4 - 45
 5 - 44
 6 - 43
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 8 - 41
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 46 - 3
 47 - 2
 48 - 1

1 - 4 = 25
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 10 = 2
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 38 = 236842
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 41 = 243902
 42 = 238095
 43 = 232558
 11 - 44 = 25
 45 = 244444
 46 = 239130
 47 = 234042
 12 - 48 = 25

759523
968794
 209271 - 5 hrs.
 854040
968794
 114754 - 2.75 hrs.
 895054
968794
 073740 - 1.7 hrs

209271
 114754
 073740
 050752
 036036
 025803
 018276
 012505
 007940
 004239
 001178
554494

918042
968794
 050752 + 1.2 hrs
 932758
968794
 036036 + 52 m.
 942991
968794
 025803 + 37'
 950518
968794
 .018276 + 26'

11.029827
 .554525
10.475302
 956289
968794
 012505 + 18'
 960854
968794
 007940 + 11'
 964355
968794
 004239 + 6'
 967616
968794
 001178 - 1.6'

13.679489
 .554525
13.124964

47 years B.C.

1	M	101	2	201	F	301	W	401	M	501	2	601	F	701	W	801	M	901	S	1001	F	1101	W	1201	M	1301	S	1401	F	1501	W	1601	M	1701	S	1801	T	1901	W
4	T	104	W	204	M	304	S	404	T	504	W	604	M	704	S	804	T	904	2	1004	M	1104	S	1204	T	1304	2	1404	M	1504	S	1604	T	1704	2	1804	2	1904	S
8	t	108	M	208	S	308	T	408	t	508	M	608	S	708	T	808	t	908	2	1008	S	1108	T	1208	t	1308	2	1408	S	1508	T	1608	t	1708	2	1808	F	1908	T
12	2	112	S	212	T	312	t	412	2	512	S	612	T	712	t	812	2	912	F	1012	T	1112	t	1212	2	1312	F	1412	W	1512	t	1612	2	1712	F	1812	W	1912	t
16	F	116	T	216	t	316	2	416	F	516	W	616	t	716	2	816	F	916	W	1016	t	1116	2	1216	F	1316	W	1416	M	1516	2	1616	F	1716	W	1816	M	1916	2
20	W	120	t	220	2	320	F	420	W	520	M	620	2	720	F	820	W	920	M	1020	2	1120	F	1220	W	1320	M	1420	S	1520	F	1620	W	1720	M	1820	S	1920	F
24	M	124	2	224	F	324	W	424	M	524	S	624	F	724	W	824	M	924	S	1024	F	1124	W	1224	M	1324	S	1424	T	1524	W	1624	M	1724	S	1824	T	1924	t
28	S	128	F	228	W	328	M	428	S	528	T	628	W	728	M	828	S	928	T	1028	t	1128	M	1228	S	1328	T	1428	t	1528	M	1628	S	1728	T	1828	t	1928	2
32	T	132	t	232	M	332	S	432	T	532	t	632	M	732	S	832	T	932	t	1032	2	1132	S	1232	T	1332	t	1432	2	1532	S	1632	T	1732	t	1832	2	1932	F
36	t	136	2	236	S	336	T	436	t	536	2	636	S	736	T	836	t	936	2	1036	F	1136	T	1236	t	1336	2	1436	F	1536	T	1636	t	1736	2	1836	F	1936	W
40	2	140	F	240	T	340	t	440	2	540	F	640	T	740	t	840	2	940	F	1040	W	1140	t	1240	2	1340	F	1440	W	1540	M	1640	2	1740	F	1840	W		
44	F	144	W	244	t	344	2	444	F	544	W	644	M	744	2	844	F	944	W	1044	M	1144	2	1244	F	1344	W	1444	M	1544	S	1644	F	1744	W	1844	M		
48	W	148	M	248	2	348	F	448	W	548	M	648	S	748	F	848	W	948	M	1048	S	1148	F	1248	W	1348	M	1448	S	1548	T	1648	W	1748	M	1848	S		
52	M	152	S	252	F	352	W	452	M	552	S	652	T	752	W	852	M	952	S	1052	T	1152	W	1252	M	1352	S	1452	T	1552	t	1652	M	1752	S	1852	T		
56	S	156	T	256	W	356	M	456	S	556	T	656	t	756	M	856	S	956	T	1056	t	1156	2	1256	S	1356	T	1456	t	1556	2	1656	S	1756	T	1856	t		
60	T	160	t	260	2	360	S	460	T	560	t	660	2	760	S	860	T	960	t	1060	2	1160	F	1260	T	1360	t	1460	2	1560	F	1660	T	1760	t	1860	2		
64	t	164	2	264	F	364	T	464	t	564	2	664	F	764	T	864	t	964	2	1064	F	1164	W	1264	t	1364	2	1464	F	1564	W	1664	t	1764	2	1864	F		
68	2	168	F	268	W	368	t	468	2	568	F	668	W	768	t	868	2	968	F	1068	W	1168	M	1268	2	1368	F	1468	W	1568	M	1668	S	1768	F	1868	W		
72	F	172	W	272	M	372	2	472	F	572	W	672	M	772	S	872	F	972	W	1072	M	1172	S	1272	F	1372	W	1472	M	1572	S	1672	T	1772	W	1872	M		
76	W	176	M	276	S	376	F	476	W	576	M	676	S	776	T	876	W	976	M	1076	S	1176	T	1276	W	1376	M	1476	S	1576	T	1676	t	1776	M	1876	S		
80	M	180	S	280	T	380	W	480	M	580	S	680	T	780	t	880	M	980	S	1080	T	1180	t	1280	M	1380	S	1480	T	1580	t	1680	2	1780	S	1880	T		
84	S	184	T	284	t	384	M	484	S	584	T	684	t	784	2	884	S	984	T	1084	t	1184	2	1284	F	1384	T	1484	t	1584	2	1684	F	1784	T	1884	t		
88	T	188	t	288	2	388	F	488	T	588	t	688	2	788	F	888	T	988	t	1088	2	1188	F	1288	W	1388	t	1488	2	1588	F	1688	W	1788	t	1888	2		
92	t	192	2	292	F	392	W	492	t	592	2	692	F	792	W	892	t	992	2	1092	F	1192	W	1292	M	1392	2	1492	F	1592	W	1692	M	1792	2	1892	F		
96	2	196	F	296	W	396	M	496	2	596	F	696	W	796	M	896	2	996	F	1096	W	1196	M	1296	S	1396	F	1496	W	1596	M	1696	S	1796	T	1896	W		
100	F	200	W	300	M	400	S	500	F	600	W	700	M	800	S	900	T	1000	W	1100	M	1200	S	1300	T	1400	W	1500	M	1600	S	1700	T	1800	t	1900	M		

365. 24	1-100	24	4000-3901	F	Adam	
365. 24	101-200	48	3900-3801	W		
365. 24	201-300	72	3800-3701	M		
365. 2425	301-400	97	3700-3601	S	Each century ends on	
365. 242	401-500	121	3600-3501	F	the "1" B.C. as 3901, 3801, etc.	
365. 241666	501-600	145	3500-3401	W	- marks end of 100, 200, etc.	
365. 241428	601-700	169	3400-3301	M	Patriarchs	
365. 2425	701-800	194	3300-3201	S		
365. 242222	801-900	218	3200-3101	F	year 4001 probably = first	
365. 242	901-1000	242	3100-3001	W	year of creation - and note	
365. 241818	1001-1100	266	3000-2901	M	a leaf year is began on	
365. 2425	1101-1200	291	2900-2801	S	Sunday	
365. 242307	1201-1300	315	2800-2701	F	-4001 = S (a leaf year)	
365. 242142	1301-1400	339	2700-2601	W	then 4000 = 2	World began on
365. 242	1401-1500	363	2600-2501	M	Sunday	
365. 2425	1501-1600	388	2500-2401	S		
365. 242352	1601-1700	412	2400-2301	F	Flood (2349)	
365. 242222	1701-1800	436	2300-2201	W		
365. 242111	1801-1900	460	2200-2101	M		
365. 2425	1901-2000	485	2100-2001	S		
365. 242380	2001-2100	509	2000-1901	F	Abraham	
365. 242272	2101-2200	533	1900-1801	W	4002 or 4001 = S 2	
365. 242173	2201-2300	557	1800-1701 (12057)	M		
365. 2425	2301-2400	582	1700-1601	S		
365. 2424	2401-2500	606	1600-1501	F		
365. 242307	2501-2600	630	1500-1401	W	Moses	
365. 242222	2601-2700	654	1400-1301	M		
365. 2425	2701-2800	679	1300-1201	S		
365. 242413	2801-2900	703	1200-1101	F		
365. 242333	2901-3000	727	1100-1001	W	David - Solomon - Temple	
365. 242258	3001-3100	751	1000-901	M		
365. 2425	3101-3200	776	900-801	S		
365. 242424	3201-3300	800	800-701	F		
365. 242352	3301-3400	824	700-601	W	Daniel	
365. 242285	3401-3500	848	600-501	M		
365. 2425	3501-3600	873	500-401	S	Ezra 457 B.C.	
365. 242432	3601-3700	897	400-301	F	- 301	
365. 242368	3701-3800	921	300-201	W	= 201	
365. 242307	3801-3900	945	200-101	M	= 101	
969 365. 2425	-4000	-970	100-1 - B.C	S = 1	365. 24225	
993 365. 242439	4100	994	1-100 A.D	M = 1	365. 242195	
1017 365. 242380	4200	1018	101-200	S = 101	365. 242142	M = Monday
1041 365. 242325	4300	1042	201-300	T = 201	365. 242093	S = Saturday
1066 365. 2425	-4400	-1067	301-400	T = 301 etc.	365. 242272	Su = Sunday
1090 365. 242449	4500	1091	401-500	M	365. 242222	Tu = Tuesday
1114 365. 242391	4600	1115	501-600	S	365. 242173	Th = Thursday
1138 365. 242340	4700	1139	601-700	T	365. 242127	W = Wednesday
1163 365. 2425	4800	-1164	701-800	T	365. 242291	F = Friday
1187 365. 242448	4900	1188	801-900	M	365. 242244	
1211 365. 2424	5000	1212	901-1000	S	365. 2422	
1235 365. 242352	5100	1236	1001-1100	T	365. 242166	
1260 365. 2425	5200	-1261	1101-1200	T	365. 242307	
1284 365. 242452	5300	1285	1201-1300	M	365. 242264	
1308 365. 242407	5400	1309	1301-1400	S	365. 242222	
1332 365. 242363	5500	1333	1401-1500	T	365. 242181	
1357 365. 2425	5600	-1358	1501-1600	T	365. 242321	
1381 365. 242456	5700	1382	1601-1700	M	365. 242280	
1405 365. 242413	5800	1406	1701-1800	S	365. 242241	
1429 365. 242372	5900	1430	1801-1900	T	365. 242203	
1454 365. 242336	6000	-1454	1901-2000	T	365. 242333	365. 2422238

APRIL
MAY
JUNE
JULY
APRIL
MAY
JUNE
JULY

DATE	NAME	NO.

RETURN TO

	MR. MASON	
	MR. GEORGE	
	MR. PHILIPS	
	MR. MARTIN	
	MR. WHITNEY	
	MR. JUGGE	
	MR. RALPH	

WAGE CHART

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		THURSDAY	
		FRIDAY	
		SATURDAY	

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Grace Anderson
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S U M M A R Y

These few notes on the three prophetic series of the Revelation, the Churches, Seals, and Trumpets, have but one object,--to emphasise the doctrines of the Third Angel's message, as taught by the Seventh-day Adventist Church, and to make use of chapters hitherto lying more or less idle in the literature. The following basis of interpretation will account for any changes that have been made:

1. That the human agent be kept out of sight, and personal applications be dropped which have crept into commentary. MS. May 27, '96
2. That the chief exaltation be the Law of God, and the Atonement of Jesus Christ. Id.
3. That the interpretation of the mystic expressions of prophecy be confirmed "at the mouth of two or three witnesses" from both the Old and New Testaments.
4. That as far as possible the symbolic names for the Papacy be used.
5. That the Christian Era be divided into seven periods by the three series of the Churches, Seals, and Trumpets, that they may complement each other in telling the story of the great apostacy, also portrayed in the history of the Five Beasts of the Revelation.

Changes necessary to link together the Three Series.

1. "Hail, fire, and blood"--Judgments upon Judaism, especially at the destruction of Jerusalem A.D.70.
2. "Mountain burning with fire"--Triumph of the ancient religion of Babylon. Jer.51:25.
3. "Fallen stars"--Fallen ministry of the churches.
4. "One third of the sun, moon, and stars"--The Papacy, that is, the state, church, and their offspring.
5. "The Fifth Angel"--The Papacy, an interpretation which not only fits the history of the fifth period, but one with which all the other symbolic terms seem to be in sympathy.
6. "Locusts"--Descriptive of the Turks during the rule of the Papacy. At the time of the end the Turk comes forth as the "King of the North."
7. "First Woe"--Scenes connected with the wounding of the Papacy, showing how this monument of Satan's power turns out.
8. "And the four angels were loosed"--Turkey "loosed" Aug.11, 1840.
9. "Second Woe"--Warning of the Judgment and its Standard.
10. "Third Woe"--The Wrath of God in the seven last plagues.

Signed,

Grace Ansdou

SEVEN PERIODS OF THE CHRISTIAN ERA

"The seven angels which stood before God."

Like Joshua the high priest (Zech.3:1), who stood, "clothed with filthy garments," before the Angel of the Lord, confessing the sins of the people, which he bore as their representative, so John sees the Angels of the Seven Churches "stand before God" (R.V.), the ministering priesthood of the Christian Era. And just as in olden time the trumpets were blown by the priests (Num.10:8), so the seven trumpets are given to the ministry of the Churches to proclaim their spiritual sacrifices, to sound the alarms of war, and to announce the great day of atonement,-- the Judgment Day.

- 1 Conquest of Christianity under Ephesus, followed by the fall of Judaism. The apostolic ministry sounded the message of a risen Saviour and of the Holy Spirit to every creature under heaven (Col.1:23); but a third part of the stars of heaven (Judaism) was drawn into Satan's snare (Rev.12:4), and rejected both Christ and His Spirit. They fixed their destiny with these words, "His blood be on us, and on our children."
 - "Hail, fire, and blood"--Judgments of God upon the Jews. Jerusalem A.D.70. Is.29:1-6; Acts 2:19; Luke 12:49.
 - "Trees"--Chief men of the nation, a symbol similarly used by the prophets, as in Dan.4:14, and Is.61:3. *Better as Ezek. 15:4, and Luke 13:8.*
 - "Earth"--In this verse the land of the Jews. In prophecy the term "earth" seems to represent any place where the people forsake and forget God. Jer.17:13.

- 2 Paganism persecutes Christianity, and the ancient religion of Babylon triumphs. The edict of Constantine in 321 declared the triumph of sun-worship, the ancient religion of Babylon, over the pagan superstitions whose lives had been prolonged to this time (Dan.7:12). Rome's sea became blood when the vast North and East broke into foment in the third century (Gibbon i, p.287); and "as it were a great mountain burning with fire was cast into the sea," when the barbarians thrust their worship of nature, the Sun and Moon, the Fire and the Earth, without temples, against the temple and altar worship of the emperors and heroes of Rome (Gibbon i, pp. 248, 277, 278, 316).
 - Paul declared that the paganism of his day would be taken out of the way (2 Thess.2:7). Ezekiel also described this amazing prodigy (Ezek.38:17-23); and Zechariah proclaimed the coming of One who was to shake all nations, and through Him the systems of heathenism lost their hold upon the people. Men became weary of pageant and fable, and longed for a religion that could satisfy the heart. Desire of Ages p. 32.
 - "Mountain"--In prophecy a symbol of any form of worship. Compare Jer.17:3 and 51:25.
 - "Third part"--Pagan Rome, representative of the Dragon. Rev. 16:13, 19.
 - "Creatures"--Same as those in the mystic sea of Dan.7 and Rev. 13. The Bible also assembles the people of God under the term "creature" (Ezek.1:5; Rev.4:6).
 - "Ships"--Probably cities. Under the allegory of a beautiful ship, is painted the glory of the ancient city of Tyre. Ezek.27.

3 Christianity on the thrones of Caesar and the "Man of sin." This period is a parable of Pergamos, who dwells "even where Satan's seat is," and the Black Horse, upon whom is seated one with a pair of balances, in which one measure of wheat and three of barley are being weighed out for Caesar (Matt.22:21). The third trumpet is the sequel, and the whole story is based on Num.5:14:27, the ancient trial by Ordeal. That "many men died of the waters" shows the guilt of the church, who offered her wheat to Caesar (Matt.13:38) instead of to God. "When Christianity ascended the throne, the cities of Egypt filled with bishops, and the deserts of Thebais swarmed with hermits" (Gibbon i,p.588), but the Revelation says that a great star fell from heaven. With tenderness the Lord covers up the sins of His ministry under the name "Wormwood;" Christianity as a state religion was bitterness itself, and just as criminal as any other union of church and state.

Gradually the worship of the Creator on the Sabbath was changed for the worship of the sun on Sunday, and by the end of the third period the "Man of sin" took his place as a distinct power among the nations of the world.

"Great star fell"--Ministry of the church fell. Christ holds His stars in His right hand. To fall would be to slip from His control. Rev.2:11; Vol.6,p.214.

"Rivers"--Under the symbol of a "river" prophecy describes active gospel work (Ezek.47:8-12). So here the church fell in the very height of her commission. Compare John 7:38 and Is.18:2.

"Three measures of barley"--May they not be the three horns which gave way before the "little horn" in Dan.7:8.

4 The Reformation (Fourth Angel) smites the Papacy ("one third of the sun, moon, and stars"). The Reformation with an open Bible did the smiting through those "two witnesses" which have power to "smite the earth with all plagues, as often as they will" (Rev. 11:6). The Reformation showed that all the "light" of the Papacy, as represented by sun and moon and stars, was darkness, [^]and she [^]did her work so effectually that "the third part of them was darkened" (Rev.8:12). The Dark Day, May 19,1780, was nature's testimony that in part of the world "men loved darkness rather than light." Jesus had prophesied that "in those days," the days of papal supremacy during the 1260 years, and "after that tribulation" was over, the sun was to be darkened (Mark 13:24). When He said to John, "and the day shone not for the third part of it" (Rev.8:12), He was but repeating the same prophecy which He had given the disciples when He was on earth.

"Jezebel"--Symbol of a church that worships the sun, as did Ahab's wife.

"None other burden"--Luther's generation had just "one burden, to fight the "mystery of iniquity." The message concerning Turkey, which developed under this period, was given to the Sixth Angel to sound.

"Death and Hell"--Another name for "that gigantic system of false religion, a masterpiece of Satan's power."

"One third of the sun, moon, and stars"--A symbolic name for an apostate system which unites church and state, and substitutes the light of the sun, moon, and stars for the "light of the world."

"Fourth part"--Another part than the "three" already mentioned of Babylon (Rev.16:13). It is "of the earth," and under the power of Death and Hell. Is it the same as those who have the "angel of the bottomless pit" as king over them? Rev.9:11.

"Flying Eagle"--An emblem identifying Church, Seal, and Trumpet of the fourth period. Refer to chart.

"And I saw, and heard an eagle, flying in mid heaven, saying with a great voice, Woe, woe, woe, for them that dwell on the earth, by reason of the other voices of the trumpet of the three angels, who are yet to sound." Rev.8:13. R.V.

- 5 The Fifth Angel sounds the First Woe, the fifth trumpet, and a star falls from heaven unto the earth; and to him was given the key of the bottomless pit. The understanding of this period depends upon the analysis of

REVELATION NINE

"And the fifth angel sounded"--"Angel of the bottomless pit," Abaddon or Apollyon, the "destroyer" (Rev.9:11); sounds like "Time of the End" "Babylon, O destroying mountain" in Jer.51:25. Is.18:3 and Jer.51:54,55 seem to represent a trumpet sound as coming from Babylon. Like the great adversary in Job 1, and the "man which had not on the wedding garment" (Matt. 22:11), an apostate system of atonement presents itself before the God of heaven, "so that he as God sitteth in the temple of God, shewing himself that he is God." 2 Thess.2:4.

"And I saw a star fall from heaven unto the earth"--The fallen ministry of the fifth period, the Angel of Sardis. "Thou hast a name that thou livest, and art dead."

"And to him was given the key of the bottomless pit"--"This key" is the very opposite of the keys given to the church (the Holy Scriptures), and could with fitness be given to the one who "shall think to change times and laws" (Dan.7:25), and "cast down the truth to the ground" (Dan.8:12), and "Magnified himself above every god" (Dan.11:36), and made God's two witnesses "prophecy a thousand two hundred and threescore days clothed in sackcloth" (Rev.11:3), and who, at last, through France, set up Atheism, the worship of no God, no Law, NO BIBLE.

"Bottomless pit"--"The earth in a state of confusion"--Great Cont., p.658.

"And he opened the bottomless pit"--Harks back to 538 A.D. when the Papacy was established. The Papacy is called the "abomination of desolation" (Dan.11:31), and his first name meant "confusion" (Gen.11:9); he is a desolating power which is a monument to the power of Satan. G.C., p.50. "It was popery which begun what Atheism was completing. G.C., p.281.

"And there arose a smoke out of the pit"--The religion of Mahomet (Smith). Isaiah prophesied of a certain "smoke" with appointed times to come from the north (Is.14:31); and Joel, of a "smoke" that was to be a sign of the last days in the

earth (Acts 2:19). Islam is a smoke that nicely fits these prophecies, and arose the same generation that established the Papacy.

"And the sun and the air were darkened"--"Within fifty years from the death of Mahomet his standard had been carried from Asia to the Hellespont, and across Africa to the Straits of Gibraltar" (Myers, p. 95).

"And there came out of the smoke locusts upon the earth"--The tribes and peoples from the north and east which were converted to the religion of Mahomet, and invaded the territory of the Papacy--the "earth" (Jer.17:13).

"And it was commanded them"--"To cleave the skulls of those who belonged to the synagogue of Satan, and had shaven crowns" was the command of history; and similarly, the Revelation says that they should hurt only "those who have not the seal of God in their foreheads. An army of locusts arose against those who changed the Sabbath.

"That they should not kill them"--They were not to take their capital, or destroy their power.

"Tormented five months"--A prophetic period representing one hundred and fifty years following July 27, 1299, the date of the first invasion of the Turks against the Eastern Empire of the Papacy. The attacks upon the Eastern capital during this time were a continual torment.

"Locusts"--Verses 7-10--Prophetic description of the Turkish army, with their long hair, and turbans, and cuirasses. Gibbon, iv, p. 218.

"And they had tails"--Their false prophets (Is.9:15). Islam was divided into many sects. Gibbon vi, p.495; Myers, p.102.

"And in their tails was their power" (R.V.)--The power of the locusts lay in their religion; like the natural insects, they had no king (Prov.30:27), and yet did not break ranks (Joel 2:7,20). "Constantinople, which had defied the power of Chosroes, the Chagan, and the caliphs, was irretrievably subdued by the arms of Mahomet the Second. Her empire only had been subverted by the Latins: her religion was trampled in the dust by the Moslem conquerors." Gibbon vi, p. 508.

"And they had as king over them the angel of the bottomless pit" (R.V.)--The locusts had invaded the territory of a "King of fierce countenance" (Dan.8:23), and one who for 1260 years was to have power "over all kindreds, and tongues, and nations" (Rev.13:7), and he was king over them as yet.

"One woe is past"--The sounding of the Fifth Angel, Abaddon or Apollyon. Through France and the French Revolution, he declared in no uncertain tones that popery made men Atheists and revolutionists (G.C., p.281); then his mitre was removed by the same power, against whom the Turks came like a "whirlwind, with chariots, and with horsemen, and with many ships" according to Daniel's prophecy (Dan.11:40). Acre, 1799.

The passing of the First Woe is the passing of that Apostate Priesthood, which opened up the bottomless pit in the earth, and because of which came that terrible torment, the "smoke of Islam." The lesson is that the Papacy ends in W O E.

6 "Loose the four angels"....."And the four angels were loosed"--The Sixth Angel received a direct command from the throne of God; and in his vision John sees that the command carried. Great Cont.,p.334.

"Which had been prepared" (R.V.)--This translation shows that the "loosing" was after the "binding"--or, in other words, Turkey was "bound" in her commission against the "third part of men" and "loosed" when her time was up.

"Hour, day, month, and year"--Period of 391 years and 15 days to follow the end of the "five months," and to end Aug. 11, 1840. This is the only prophecy in the Bible ending on the exact day of the month.

"The four months"--The four winds, as in Rev.7:1, or the four quarters of the globe held by Islam. The empire of the Saracens divided itself into three parts, with Bagdad, Cairo, and Cordova as capitals (Myers, p. 102); and when the Turks took Constantinople, it made the fourth.

"The third part of men"--The Papacy, or the "beast" of Rev.13:1, one of the three parts of the great city, the mystic Babylon (Rev.16:13,19), which spans the Christian era.

"Army of the horsemen were two hundred thousand thousand"--This seems to apply to the army of the "four angels" which were "loosed" Aug. 11, 1840--the great world of Islam and her converts.

"Verse seventeen"--Descriptive of their mode of warfare in contrast to that under the fifth trumpet.

"By these was the third part of men killed"--This time, the remaining "third part" or the "false prophet" (Rev.16:13). The Turk still has a commission against the apostate religions of the world; and under this commission, he will "kill," that is, take the capital, the glorious holy mountain mentioned in Dan.11:45.

"For their power is in their mouth and in their tails"--The territory of the Turk is drying up, but the prophet of Islam will prevail until he plants his palace in Jerusalem, and comes to his end under the sixth plague (Rev.16:10). "In any struggle involving positive peril to Islam--not merely political danger to the Porte--the Arab would infallibly make common cause with the Turk." McCoan's Egypt,p. 105.

"Their tails were like unto serpents, and had heads"--Shows more complete organization of the Mohammedan power than existed under the previous prophetic periods.

"And the rest of the men which were not killed by these plagues"--Thus we are brought down to the Plagues of Rev.16, and to Rev.19:20,21--the battle of Armageddon.

"With them they do hurt"--The Turk will do little more than "hurt" in his final commission. He will not be the victor in that last great battle before Christ comes.

"And the rest"--Same as the "remnant" in Rev.19:21.

"Revelation 10"--The mighty angel swears from the little book (Daniel) that

1. Time shall be no longer--end of Dan.8:14--1844.
2. The mystery of God shall be finished when the seventh angel begins to sound.
3. "Thou must prophecy again."

"Rise and measure the temple of God"--The Judgment. "Every case is coming in review before God; He is measuring the temple and the worshipers therein." Vol.7,p.219.

"The court which is without"--Represents the "earth" and those who are written therein. Jer.17:13.

Revelation 11:3-13--History of France, and Atheism, as a "beast" from the bottomless pit warring against the "two prophets" which tormented them, but who finally ascended up to "heaven" in a cloud.

The "earthquake"--The terrible shaking which France gave the Papacy in all his "strongholds" (Dan.11:39). Sardis, the church of this period, only had a few names left, after seven thousand were slain in that earthquake.

"Second woe is past"--The Sixth Angel starts with Turkey in Aug. 11, 1840, a sign of the opening of the Judgment, and carries down to the seven last plagues and Armageddon; then back to the beginning of the Judgment in 1844, and France at the "Time of the End" (1793-1798), thus showing that

The "Second Woe" is a warning of the Judgment and of the Standard by which men will be judged. James 2:12; Rom.2:12. Under both seal and trumpet of the sixth period is a picture of the Word of God--the Standard--being slain, and lying dead in the streets (Compare Rev.6:9-11 and 11:7-11). But, by way of contrast, the Philadelphia church "kept the word of his patience," which was crying with a loud voice, "How long, O Master, holy and true, dost thou not judge and avenge our blood?" And it was answered them, "Yet for a little season."

7"Behold, the third woe cometh quickly"
---The Close of Probation---

"And the seventh angel sounded"--He begins to sound before the close of probation, and his work is the actual finishing of the mystery of God--"God manifest in the flesh" (1 Tim.3:16). The prophecy seems to indicate a definite time for this work; may it not be coincident with the "time of the latter rain" in Zech. 10:1?

"And there followed great voices in heaven" (R.V.)--Those who dwell in heaven (Rev.12:12), whose names are written in heaven (Rev.13:6,8), and whose conversation is in heaven (Phil. 3:20). When the name of God is actually sealed in the forehead, a great declaration will go forth which will sound to heaven itself.

"The kingdoms of this world are become"--It is during the judgment that Christ receives His kingdom (Dan.7:10-14). When He comes He will "return from the wedding" (Luke 12:36), and it is before the door of mercy is shut, that they who are ready go in with Him to the marriage (Matt.25:10). Thus His kingdom is being made up now; and when His work of intercession closes in the sanctuary above, then will be proclaimed the words of this verse.

"Which art, and wast, and art to come"--These words of the four and twenty elders show that His coming is yet future at this point under the seventh angel.

"Because thou hast taken to thee thy great power and hast reigned"--
This is the pouring out of the Holy Spirit in the "latter rain" at which time Christ actually reigns here on earth in the heart of a church that has been sealed by His name in the forehead.

"And the nations were angry"--The first event in a series of three mentioned in this verse (Early Writings, p. 36), and looks back to the time just before the close of probation, when the nations are angry.

"And thy wrath is come"--Under the plagues (Rev.16) God is angry.

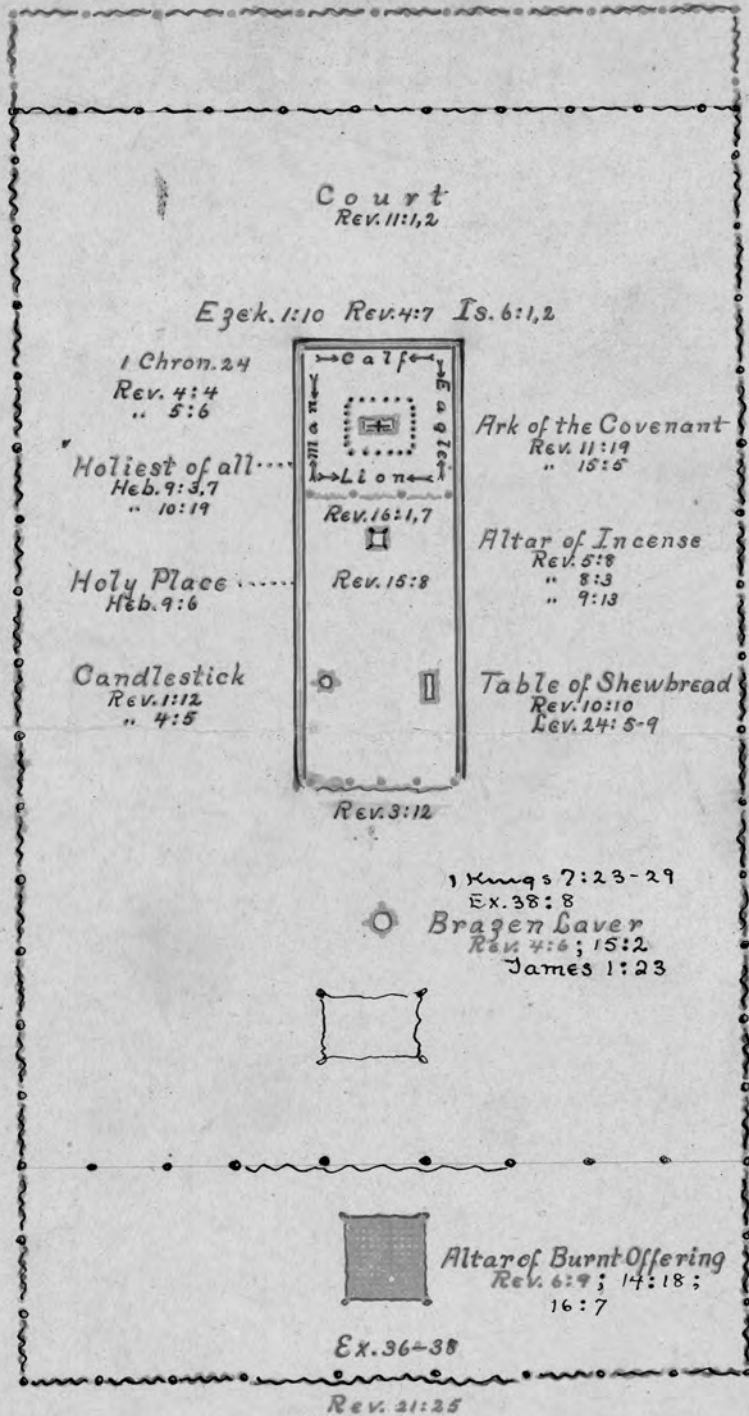
"And the time of the dead that they should be judged"--These plagues are a trial by Ordeal of apostate religions (Rev.16:5,7), which are represented by the symbols "earth," "sea," "rivers," "sun," "seat of the beast," "Euphrates," and "air." The "dead" are those who have lost eternal life.

"And the temple of God was opened in heaven"--The command to open it is given in verse one; in vision John sees that the Judgment did open. Great Cont., p. 433.

Signed,
Grace Amador

Zebulon Joseph Benjamin
Rev. 7:8 & 21:13

(Ephraim) Manasseh Benjamin
Num. 21:17-24 Egek. 1:10
Ox
Gershon Num. 3:28



South
Issachar
Levi
Rev. 7:7 & 21:13

Gad
Simeon
Num. 2:10-16
Egek. 1:10

Reuben
Simeon
Num. 2:10-16
Egek. 1:10

Wall
Kohath Num. 5:29

North
Aser
Naphthali
Rev. 7:6 & 21:13

Asher
Num. 2:25-31
Egek. 1:10

Eagle
Merari
Num. 3:25

Dan
Manasseh

Moses and Aaron
Num. 3:38

Judah Issachar Zebulon
Num. 2:3-9
Egek. 1:10

Lion

Judah Reuben Gad
Rev. 7:5 & 21:13
East

Tabernacle of Moses
a Type of
The Sanctuary
in
The Revelation
Heb. 9:10

gabriel } Judges 5:18 { Judges 5:14
Hafhtali }

Dan } Judges 5:17
Asher }

Reuben Judges 5:16; Dent. 2

gad (Gilead) Judges 5:17 1 Chron. 12:8-15

Simeonites Num 25:17 Tribe reduced 37000 during 40 yrs. Moses omitted a blessing
for Simeon

Difference between Cal. & proph. of 2300 = 12058 + 3600 = 4600

On the basis of 12058 prophetic and calendar years for 2300 period and a year = 365.2422 days, the Temp. of Christ = 33.019709 days

33 yrs 5 days - 0.036

Length of year from difference between Cal. & proph. yrs. & prop. yrs. = 365.24219786
Total 1st 2000 = 73048.39755 - Average = 365.241987
Total 2nd 2000 = 73048.40432 - Average = 365.242371

Handwritten calculations showing differences and averages:

$$4600 + 3600 = 8200$$

$$8200 / 23 = 356.52173$$

Large vertical calculation:

$$\begin{array}{r} 431570541365 \\ 36524219786 \\ \hline 431570541365 \\ \hline 431570541365 \\ \hline 431570541365 \\ \hline 431570541365 \end{array}$$

Other calculations:

$$360 \times 23 = 8280$$

$$360 \times 24 = 8640$$

$$360 \times 25 = 9000$$

Handwritten calculations showing differences and averages:

$$5100 - 25500 = 12350$$

$$12350 + 26735 = 39085$$

Large vertical calculation:

$$\begin{array}{r} 365242156 \\ 360 \\ \hline 365242156 \\ \hline 365242156 \\ \hline 365242156 \\ \hline 365242156 \end{array}$$

Other calculations:

$$5300 - 26500 = 12840$$

$$12840 + 27784 = 40624$$

Century	Years	Leap Days	Mean Century Year	B.C. & A.D.	n. yrs D.	Eras
24	1-	-99	24	365.242424	4000-3901	Eden
48	100-199	-199	48	365.241211	3900-3801	
72	200-299	-299	72	365.240802	3800-3701	
97	300-399	400 -399	96	73 - 365.240601	3700-3601	
121	400-499	-499	+121	365.242484	3600-3501	
145	500-599	-599	145	365.242070	3500-3401	
169	600-699	-699	169	365.241773	3400-3301	
194	700-799	800 -799	193	170 - 365.241551	3300-3201	
218	800-899	-899	+218	365.242491	3200-3101	
242	900-999	-999	242	365.242242	3100-3001	
266	1000-1099	-1099	266	365.242038	3000-2901	
291	1100-1199	1200 -1199	290	267 - 365.241868	2900-2801	
315	1200-1299	-1299	+315	365.242494	2800-2701	
339	1300-1399	-1399	339	365.242315	2700-2601	
363	1400-1499	-1499	363	365.242164	2600-2501	
388	1500-1599	-1599	387	364 - 365.242026	2500-2401	
412	1600-1699	-1699	+412	365.242415	2400-2301	Flood
436	1700-1799	-1799	436	365.242356	2300-2201	Babel
460	1800-1899	-1899	460	365.242232	2200-2101	
485	1900-1999	-1999	484	461 - 365.242121	2100-2001	
509	2000-2099	-2099	+509	365.242496	2000-1901	Abraham
533	2100-2199	-2199	533	365.242382	1900-1801	
557	2200-2299	-2299	557	365.242279	1800-1701	
582	2300-2399	-2399	581	558 - 365.242184	1700-1601	
606	2400-2499	-2499	+606	582 365.242476	1600-1501	
630	2500-2599	-2599	630	606 365.242400	1500-1401	Moses
654	2600-2699	-2699	654	630 365.242311	1400-1301	
679	2700-2799	-2799	678	655 - 365.242229	1300-1201	
703	2800-2899	-2899	+703	679 365.242497	1200-1101	
727	2900-2999	-2999	727	703 365.242414	1100-1001	Solomon
751	3000-3099	-3099	751	727 365.242336	1000-901	
776	3100-3199	-3199	775	752 - 365.242263	900-801	
800	3200-3299	-3299	+800	776 365.242497	800-701	
824	3300-3399	-3399	824	800 365.242424	700-601	Proph. Era
848	3400-3499	-3499	848	824 365.242357	600-501	
873	3500-3599	-3599	872	849 - 365.242289	500-401	
897	3600-3699	-3699	+897	873 365.242470	400-301	100
921	3700-3799	-3799	921	897 365.242432	300-201	200
945	3800-3899	-3899	945	921 365.242369	200-101	300
970	3901-4000	-3999	969	946 - 365.242310	100-1	400
994	4001-4100	-4099	993	970 365.242254	1-99	500
1018	4101-4200	-4199	1017	365.2422	101-	600
1042	4201-4300	-4299	1041	365.2419	+49	700
1066	4301-4400	-4399	1065	365.2421	301-	800
1091	4401-4500	-4499	+1090	1067 - 365.242276	401-	900
1115	4501-4600	-4599	1114	365.242226	501-	1000
1139	4601-4700	-4699	1138	365.242179	601-	1100
1163	4701-4800	-4799	1162		701-	1200
1188	4801-4900	-4899	+1187	1164 -	801-	1300
1212	4901-5000	-4999	1211		901-	1400
1236	5001-5100	-5099	1235		1001-	1500
1260	5101-5200	-5199	1259		1101-	1600
1285	5201-5300	-5299	+1284	1261 -	1201-	1700
1309	5301-5400	-5399	1308		1301-	1800
1333	5401-5500	-5499	1332		1401-	1900
1357	5501-5600	-5599	1356		1501-	2000
1382	5601-5700	-5699	+1381	1358 -	1601-	2100
1406	5701-5800	-5799	1405		1701-	2200
1430	5801-5900	-5899	1429		1801-	2300
1454	5901-6000	-5999	1453		1901-	
1479			1478		2001	

TABLE SHOWING THE QUATERNARY INCREASE OF THE JULIAN YEAR

During the Christian Era

Each decimal fraction is obtained by subtracting the decimal part of the astronomical constant for 4 years, or 4 times .2421987, which equals .968794, from the sum of the Julian means for each bissextile period: as for example,

(13/52+14/52+15/52+16/52) - .968794 equals .003592 day.

	B.C.1-99	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
1	001397	021227	025212	026923	027874	028478	028897	029206	029440	029625	029776	029901	030005	030093	030171	030238	030295	030348	030393	030435
2	003592	021486	025306	026971	027903	028498	028912	029215	029448	029632	029782	029905	030009	030097	030173	030240	030297	030349	030396	030437
3	005487	021731	025399	027018	027932	028518	028926	029226	029457	029639	029787	029909	030013	030100	030176	030242	030299	030351	030397	030439
4	007137	021964	025487	027064	027960	028537	028939	029237	029464	029646	029793	029914	030016	030103	030179	030244	030303	030354	030399	030440
5	008588	022185	025573	027110	027989	028556	028954	029248	029473	029652	029798	029919	030020	030106	030181	030247	030304	030355	030401	030441
6	009875	022398	025656	027153	028015	028574	028966	029258	029481	029659	029803	029923	030023	030110	030184	030249	030307	030357	030403	030444
7	011024	022600	025737	027198	028043	028592	028980	029268	029488	029665	029809	029927	030027	030113	030187	030252	030309	030360	030405	030445
8	012054	022793	025815	027241	028068	028610	028993	029278	029496	029670	029813	029931	030031	030117	030189	030255	030311	030361	030405	030447
9	012984	022977	025891	027281	028095	028628	029005	029286	029505	029678	029818	029936	030034	030119	030193	030256	030313	030363	030408	(030447)
10	013829	023154	025965	027322	028120	028646	029020	029297	029512	029684	029824	029941	030039	030123	030195	030259	030315	030365	030409	(030450)
11	014599	023324	026037	027361	028144	028663	029032	029307	029520	029690	029829	029944	030043	030126	030198	030261	030317	030367	030411	
12	014302	023485	026108	027400	028169	028681	029044	029316	029528	029696	029834	029949	030045	030129	030201	030264	030319	030369	030412	
13	015949	023641	026177	027439	028193	028697	029057	029326	029535	029702	029839	029953	030049	030132	030203	030266	030321	030371	030415	
14	016546	023791	026243	027476	028217	028715	029069	029335	029542	029708	029844	029957	030052	030135	030206	030268	030324	030373	030416	
15	017098	023934	026309	027513	028241	028730	029081	029344	029550	029714	029848	029961	030057	030138	030208	030271	030325	030374	030417	
16	017609	024073	026371	027549	028265	028747	029093	029353	029556	029720	029853	029965	030060	030141	030211	030273	030327	030375	030420	
17	018085	024206	026433	027584	028288	028763	029103	029362	029564	029726	029859	029969	030062	030144	030213	030276	030330	030378	030421	
18	018528	024334	026492	027619	028310	028773	029116	029372	029571	029731	029863	029973	030067	030147	030217	030277	030331	030379	030423	
19	018942	024457	026551	027653	028333	028795	029128	029380	029578	029737	029868	029977	030069	030150	030219	030279	030333	030381	030423	
20	019331	024577	026608	027686	028354	028810	029140	029389	029585	029743	029872	029981	030073	030153	030222	030283	030336	030384	030426	
21	019695	024693	026664	027719	028376	028825	029152	029398	029592	029749	029877	029985	030077	030156	030225	030285	030337	030385	030427	
22	020038	024804	026718	027750	028397	028840	029161	029406	029599	029754	029883	029989	030081	030159	030227	030287	030339	030387	030429	
23	020361	024911	026771	027782	028418	028855	029173	029416	029606	029760	029887	029993	030084	030162	030229	030289	030342	030388	030431	
24	020665	025014	026823	027714	028438	028869	029184	029424	029613	029765	029891	029997	030087	030165	030231	030291	030343	030391	030433	
25	020953	025115	026873	027844	028459	028884	029194	029432	029620	029771	029896	030001	030091	030168	030235	030294	030345	030392	030434	

359768 586874 653229 685370 704601 717284 726319 733079 738323 742516 745946 748800 751214 753286 755073 756646 758022 759257 760354 243528

* The first quaternary period starts with the 48th Julian year, corresponding to 1 B.C. This was a leap year in principle, though not really observed as such by Augustus Caesar. The irregularities of the pontiffs had introduced 12 leap days in 36 years. Augustus corrected the calendar by dropping them out from the 37th to the 48th. These 12 leap days, therefore, really covered 48 years.

T O T A L
 B.C.1-99 1 359768
 100 2 586874
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 300 4 685370
 400 5 704601
 500 6 717284
 600 7 726319
 700 8 733079
 800 9 738323
 900 10 742516
 1000 11 745946
 1100 12 748800
 1200 13 751214
 1300 14 753286
 1400 15 755073
 1500 16 756646
 1600 17 758022
 1700 18 759257
 1800 19 760354
 1900 20 243528
 to 31 A.D.

 13,679,489 days =
 representing the number of days increase of the Julian year by 1931, though during the Christian era 15 more leap days had been added than called for by the Gregorian correction.

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G R E G O R I A N C A L E N D A R
(As compared with Sun Time)

Gregorian

Leap Days	Years	Increase	Years	Increase	Years	Increase	Years	Increase	Years	Increase				
375	1500-3		400	1600-3	0001196		1700-3	000624	1800-3	000116	1900-3	000342*		
376	1504-7		401	1604-7	0001269	425	1704-7	000694	449	1804-7	000182	473	1904-7	0000278
377	1508-11		402	1608-11	001340	426	1708-11	000743	450	1808-11	000248	474	1908-11	000213
378	1512-15		403	1612-15	001412	427	1712-15	000832	451	1812-15	000315	475	1912-15	000150
379	1516-19		404	1616-19	001483	428	1716-19	000901	452	1816-19	000382	476	1916-19	000086
380	1520-23		405	1620-23	001554	429	1720-23	000970	453	1820-23	000448	477	1920-23	000023
381	1524-27		406	1624-27	001625	430	1724-27	001038	454	1824-27	000513	478	1924-27	000041
382	1528-31		407	1628-31	001697	431	1728-31	001106	455	1828-31	000580	479	1928-31	000104
383	1532-35		408	1632-35	001767	432	1732-35	001174	456	1832-35	000644			
384	1536-39		409	1636-39	001837	433	1736-39	001242	457	1836-39	000709			
385	1540-43		410	1640-43	001906	434	1740-43	001308	458	1840-43	000773			
386	1544-47		411	1644-47	001975	435	1744-47	001374	459	1844-47	000838			
387	1548-51		412	1648-51	002044	436	1748-51	001440	460	1848-51	000902			
388	1552-55		413	1652-55	002113	437	1752-55	001506	461	1852-55	000965			
389	1556-59		414	1656-59	002180	438	1756-59	001572	462	1856-59	001029			
390	1560-63		415	1660-63	002250	439	1760-63	001638	463	1860-63	001092			
391	1564-67		416	1664-67	002317	440	1764-67	001703	464	1864-67	001154			
392	1568-71		417	1668-71	002383	441	1768-71	001768	465	1868-71	001218			
393	1572-75		418	1672-75	002451	442	1772-75	001833	466	1872-75	001279			
394	1576-79		419	1676-79	002517	443	1776-79	001897	467	1876-79	001342			
395	1580-83	015564	420	1680-83	002583	444	1780-83	001961	468	1880-83	001404			
396	1584-87	000902	421	1684-87	002650	445	1784-87	002025	469	1884-87	001466			
397	1588-91	000975	422	1688-91	002715	446	1788-91	002090	470	1888-91	001527			
398	1592-95	001049	423	1692-95	002781	447	1792-95	002152	471	1892-95	001588			
399	1596-99	001222	424	1696-99	002845	448	1796-99	002215	472	1896-99	001649			

* Numbers in red
are less than Sun
Time.

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TABLE II

FIRST CENTURY AVERAGES
OF THE JULIAN YEAR

Leap Days	Julian Year	Year A.D.	Yearly Increase	Increase over Sun Time	Leap Days	Julian Year	Year A.D.	Yearly Increase	Increase over Sun Time
12	48	1*	.2525	.970191	25	100	52	.25	.985340
	49	1	.244897	.968794		101	53	.247524	.968794
	50	2	.24	.001397		102	54	.245098	.016546
	51	3	.235294			103	55	.242718	
13	52	4	.25	.972386	26	104	56	.25	.985892
	53	5	.245283	.968794		105	57	.247619	.968794
	54	6	.240740	.003592		106	58	.245283	.017098
	55	7	.236363			107	59	.242990	
14	56	8	.25	.974281	27	108	60	.25	.986403
	57	9	.245614	.968794		109	61	.247706	.968794
	58	10	.241379	.005487		110	62	.245454	.017609
	59	11	.237288			111	63	.243243	
15	60	12	.25	.975931	28	112	64	.25	.986879
	61	13	.245901	.968794		113	65	.247787	.968794
	62	14	.241935	.007137		114	66	.245614	.018085
	63	15	.238095			115	67	.243478	
16	64	16	.25	.977382	29	116	68	.25	.987322
	65	17	.246153	.968794		117	69	.247863	.968794
	66	18	.242424	.008588		118	70	.245762	.018528
	67	19	.238805			119	71	.243697	
17	68	20	.25	.978669	30	120	72	.25	.987736
	69	21	.246376	.968794		121	73	.247933	.968794
	70	22	.242857	.009875		122	74	.245901	.018942
	71	23	.239436			123	75	.243902	
18	72	24	.25	.979818	31	124	76	.25	.988125
	73	25	.246575	.968794		125	77	.248	.968794
	74	26	.243243	.011024		126	78	.246031	.019331
	75	27	.24			127	79	.244094	
19	76	28	.25	.980848	32	128	80	.25	.988489
	77	29	.246753	.968794		129	81	.248062	.968794
	78	30	.243589	.012054		130	82	.246153	.019695
	79	31	.240506			131	83	.244274	
20	80	32	.25	.981778	33	132	84	.25	.988832
	81	33	.246913	.968794		133	85	.248120	.968794
	82	34	.243902	.012984		134	86	.246268	.020038
	83	35	.240963			135	87	.244444	
21	84	36	.25	.982623	34	136	88	.25	.989155
	85	37	.247058	.968794		137	89	.248175	.968794
	86	38	.244186	.013829		138	90	.246376	.020361
	87	39	.241379			139	91	.244604	
22	88	40	.25	.983393	35	140	92	.25	.989459
	89	41	.247191	.968794		141	93	.248226	.968794
	90	42	.244444	.014599		142	94	.246478	.020665
	91	43	.241758			143	95	.244755	
23	92	44	.25	.984096	36	144	96	.25	.989747
	93	45	.247311	.968794		145	97	.248275	.968794
	94	46	.244680	.015302		146	98	.246575	.020953
	95	47	.242105			147	99	.244897	
24	96	48	.25	.984743					
	97	49	.247422	.968794					
	98	50	.244897	.015949					
	99	51	.242424						

* 1 B.C. This year marked the 48th from the first year of Julius Caesar, and up to this point Augustus Caesar corrected the calendar. Cf. "Calendar" in Enc. Brit.

Sun Time for each period equals 4 times the astronomical constant .2421987, or .968794 day. The number 365 is omitted to save space. *Julian*
Each ratio is obtained by dividing the leap-day number by the years of its period.

fecit G. Amadon

TABLE 1

TABLE SHOWING THE QUATERNARY INCREASE OF THE JULIAN YEAR
During the Christian Era

Each decimal fraction is obtained by subtracting the decimal part of the astronomical constant for 4 years, or 4 times .2421987, which equals .968794, from the sum of the Julian means for each bissextile period: as for example, $(\frac{13}{52} + \frac{13}{53} + \frac{13}{54} + \frac{13}{55}) - .968794$ equals .003592 of a day.

B.C.1-99	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
* 1	001397	021227	025212	026923	027874	028478	028897	029206	029440	029625	029776	029901	030005	030171	030238	030295	030348	030393	030435
2	003592	021486	025306	026971	027903	028498	028912	029215	029448	029632	029782	029905	030009	030173	030240	030297	030349	030396	030437
3	005487	021731	025399	027018	027932	028518	028926	029226	029457	029639	029787	029909	030013	030176	030242	030299	030351	030397	030439
4	007137	021964	025487	027064	027960	028537	028939	029237	029464	029646	029793	029914	030016	030179	030244	030303	030354	030399	030440
5	008588	022185	025573	027110	027989	028556	028954	029248	029473	029652	029798	029919	030020	030181	030247	030304	030355	030401	030441
6	009875	022398	025656	027153	028015	028574	028966	029258	029481	029659	029803	029923	030023	030184	030249	030307	030357	030403	030444
7	011024	022600	025737	027198	028043	028592	028980	029268	029488	029665	029809	029927	030027	030187	030252	030309	030360	030405	030445
8	012054	022793	025815	027241	028068	028610	028993	029278	029496	029670	029813	029931	030031	030189	030255	030311	030361	030405	030447 '28-
9	012984	022977	025891	027281	028095	028628	029005	029286	029505	029678	029818	029936	030034	030193	030256	030313	030363	030408	1931
10	013829	023154	025965	027322	028120	028646	029020	029297	029512	029684	029824	029941	030039	030195	030259	030315	030365	030409	
11	014599	023324	026037	027361	028144	028663	029032	029307	029520	029690	029829	029944	030043	030198	030261	030317	030367	030411	
12	014302	023485	026108	027400	028169	028681	029044	029316	029528	029696	029834	029949	030045	030199	030261	030319	030369	030412	
13	015949	023641	026177	027439	028193	028697	029057	029326	029535	029702	029839	029953	030049	030198	030263	030321	030371	030415	
14	016546	023791	026243	027476	028217	028715	029069	029335	029542	029708	029844	029957	030052	030198	030266	030324	030373	030416	
15	017098	023934	026309	027513	028241	028730	029081	029344	029550	029714	029848	029961	030057	030198	030268	030326	030374	030417	
16	017609	024073	026371	027549	028265	028747	029093	029353	029556	029720	029853	029965	030060	030198	030273	030327	030375	030420	
17	018085	024206	026433	027584	028288	028763	029103	029362	029564	029726	029859	029969	030062	030198	030276	030330	030378	030421	
18	018528	024334	026492	027619	028310	028773	029116	029372	029571	029731	029863	029973	030067	030198	030277	030331	030379	030423	
19	018942	024457	026551	027653	028333	028795	029128	029380	029578	029737	029868	029977	030069	030198	030279	030333	030381	030423	
20	019331	024577	026608	027686	028354	028810	029140	029389	029585	029743	029872	029981	030073	030198	030283	030336	030384	030426	
21	019695	024693	026664	027719	028376	028825	029152	029398	029592	029749	029877	029985	030077	030198	030285	030337	030385	030427	
22	020038	024804	026718	027750	028397	028840	029161	029406	029599	029754	029883	029989	030081	030198	030287	030339	030387	030429	
23	020361	024911	026771	027782	028418	028855	029173	029416	029606	029760	029887	029993	030084	030198	030289	030342	030388	030431	
24	020665	025014	026823	027714	028438	028869	029184	029424	029613	029765	029891	029997	030087	030198	030291	030343	030391	030433	
25	020953	025115	026873	027844	028459	028884	029194	029432	029620	029771	029896	030001	030091	030198	030294	030345	030392	030434	

359768	586874	653229	685370	704601	717284	726319	733079	738323	742516	745946	748800	751214	753286	755073	756646	758022	759257	760354	243528

* The first quaternary period starts with the 48th Julian year, corresponding to 1 B.C. This was a leap year in principle, though not really observed as such by Augustus Caesar. The irregularities of the pontiffs had introduced 12 leap days in 36 years. Augustus corrected the calendar by dropping them out from the 37th to the 48th. These 12 leap days therefore really covered 48 years.

TOTAL

B.C.1-99	359768
100	586874
200	653229
300	685370
400	704601
500	717284
600	726319
700	733079
800	738323
900	742516
1000	745946
1100	748800
1200	751214
1300	753286
1400	755073
1500	756646
1600	758022
1700	759257
1800	760354
1900	243528

to 31 A.D.

13,679,489
representing the
number of days in-
crease of the Jul-
ian year to 1931.*

* See note at bot-
tom of TABLE III

" 1580-1583

TABLE SHOWING THE QUATERNARY VARIATION OF THE GREGORIAN YEAR

The numbers in red are less than Sun Time and have to be subtracted from the TOTAL of the black. The fractions are computed in the same manner as in the Julian Table.

000763

B.C.1-	100*	200*	300*	400	500*	600*	700*	800	900*	1000*	1100*	1200	1300*	1400*	1500*	1600	1700*	1800*	1900*	
A.D.3	001397	005531	006853	007412	001177	000639	001896	002817	001188	000137	000715	001417	001194	000452	000185	000741	001196	000624	000116	000342
4-7	003592	004575	006253	006976	001441	000409	001692	002636	001328	000267	000593	001305	001289	000544	000099	000658	001269	000694	000182	000278
8-11	005487	003671	005670	006548	001703	000184	001492	002458	001469	000376	000474	001192	001384	000634	000013	000578	001340	000743	000248	000213
12-15	007137	002805	005107	006131	001958	000042	001295	002280	001606	000624	000354	001081	001479	000723	000072	000496	001412	000832	000315	000150
16-19	008588	001985	004560	005722	002209	000261	001100	002105	001743	000652	000235	000969	001572	000813	000157	000415	001483	000901	000382	000086
20-23	009875	001202	004030	005323	002456	000479	000907	001932	001878	000778	000117	000860	001665	000902	000241	000334	001554	000970	000448	000023
24-27	011024	000455	003514	004932	002699	000693	000714	001760	002012	000902	000001	000750	001758	000990	000327	000254	001625	001038	000513	000041
28-31	012054	000257	003014	004549	002937	000905	000528	001590	002145	001026	000115	000642	001850	001077	000410	000174	001697	001106	000580	000104
32-35	012984	000938	002389	004180	003173	001114	000341	001424	002277	001148	000230	000535	001942	001165	000493	000095	001767	001174	000644	1931
36-39	013829	001590	002056	003811	003402	001319	000157	001257	002408	001271	000344	000427	002033	001252	000576	000016	001837	001242	000709	
40-43	014599	002214	001594	003447	003630	001521	000024	001093	002538	001392	000457	000321	002124	001338	000657	000063	001906	001308	000773	
44-47	014302	002813	001151	003096	003853	001722	000204	000930	002667	001512	000569	000215	002215	001424	000739	000142	001975	001374	000838	
48-51	015949	003387	000715	001750	004072	001919	000382	000769	002793	001631	000682	000110	002304	001609	000821	000219	002044	001440	000902	
52-55	016546	003940	000292	002412	004289	002113	000558	000608	002919	001750	000792	000005	002392	001593	000901	000297	002113	001506	000965	
56-59	017098	004469	000121	002130	004503	002306	000732	000451	003043	001866	000901	000097	002480	001678	000982	000372	002180	001572	001029	
60-63	017609	004980	000512	001756	004712	002495	000903	000295	003169	001983	001011	000200	002568	001762	001062	000450	002250	001638	001092	
64-67	018085	005470	000913	001438	004918	002683	001073	000141	003291	001099	001120	000303	002656	001844	001142	000526	002317	001703	001154	
68-71	018528	005943	001295	001124	005122	002867	001240	000014	003413	002213	001228	000404	002743	001928	001222	000602	002383	001768	001218	
72-75	018942	006398	001668	000817	005322	003050	001408	000165	003533	002327	001335	000504	002827	002010	001300	000677	002451	001833	001279	
76-79	019331	006837	002030	000517	005519	003230	001571	000315	003653	002439	001441	000605	002913	002093	001378	000752	002517	001897	001342	
80-83	019695	007263	002384	000221	005713	003408	001734	000464	003771	002549	001545	000705	002998	002174	001457	000827	002583	001961	001404	
84-87	020038	007672	002729	000046	005903	003582	001894	000612	003889	002660	001650	000805	003083	002254	001534	000902	002650	002025	001466	
88-91	020361	008067	003066	000353	006091	003756	002054	000757	004005	002769	001754	000902	003167	002336	001611	000975	002715	002090	001527	
92-95	020665	008451	003396	000632	006277	003926	002211	000903	004121	002879	001857	001000	003251	002415	001688	001049	002781	002152	001588	
96-99	020953	011820	003717	000907	006460	004096	002367	001045	004236	002987	001960	001097	003334	002494	001764	001222	002845	002215	001649	

358668	020224	047198	074338	099539	001232	010122	024546	069095	039237	002489	009829	057221	037604	000297	003761	050890	035826	022363	001092
	092509	021831	001892		047487	018355	004275			018991	006622			020534	009075				000145

* These years are not leap years

T O T A L S

020224	047198	074338	001232	010122	024546	002489	009829	000297	003761	001092	195128
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358668	092509	021831	001892	099539	047487	018355	004275	069095	039237	018991	006622	057221	037604	000297	003761	050890	035826	022363	001092

1.012159
195128
0.817031 = 19 hrs. 39.52 min.
0.554494
0.262537 = 6 hrs. 18.05 min.

F I R S T C E N T U R Y L U N A T I O N S

27 A. D. to 36 A. D.

The date 28 A. D., April 13-16-51 was sent from the Naval Observatory, Washington, by Glenn H. Draper. The lunations are from New Moon to New Moon.

34-A 7-23-7

M 7-11-51
29-12-44
J^e 6-0-35
29-12-44

33-A 18-14-19

Jy 5-13-19
29-12-44
A 4-2-3
29-12-44

27-M 26-19-19

29-12-44.04
A 25-8-3.04
29-12-44.04
M 24-20-47.08
29-12-44.04

J^e 23-9-31.12
29-12-44.04

Jy 22-22-15.16
29-12-44.04

A 21-10-59.20
29-12-44.04

S 19-23-43.24
29-12-44.04

O 19-12-27.28
29-12-44.04

N 18-1-11.32
29-12-44.04

D 17-13-55.36
29-12-44.04

J 16-2-39.40
29-12-44.04

F 14-5-23.44
29-12-44.04

M 15-4-7.48
29-12-44.04

29-A 3-1-39

29-12-44
M 2-14-23
29-12-44

Jy 19-13-23
29-12-44

J^e 1-3-7
29-12-44

J^e 30-15-51
29-12-44

Jy 30-4-35
29-12-44

A 28-17-19
29-12-44

S 27-6-3
29-12-44

O 26-18-47
29-12-44

N 25-7-31
29-12-44

D 24-20-15
29-12-44

J 23-8-59
29-12-44

F 21-21-43
29-12-44

M 23-10-27
29-12-44

30-A 21-23-11

29-12-44

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30-A 21-23-11

29-12-44
M 21-11-55
29-12-44

J^e 20-0-39
29-12-44

Jy 19-13-23
29-12-44

A 18-2-7
29-12-44

S 16-14-51
29-12-44

O 16-3-35
29-12-44

N 14-16-19
29-12-44

D 14-5-3
29-12-44

J 12-17-47
29-12-44

F 11-6-31
29-12-44

M 12-19-15
29-12-44

31-A 11-7-59

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32-M 30-16-47

29-12-44
A 29-5-31
29-12-44

M 28-12-15
29-12-44

J^e 27-6-59
29-12-44

Jy 26-19-43
29-12-44

A 25-8-27
29-12-44

S 23-21-11
29-12-44

O 23-9-55
29-12-44

N 21-22-39
29-12-44

D 21-11-23
29-12-44

J 20-0-7
29-12-44

F 18-12-51
29-12-44

M 20-1-35
29-12-44

33-A 18-14-19

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35-M 28-7-55

29-12-44

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Began here

29-A 3-1-39

TABLE III

B. C. C E N T U R Y A V E R A G E S
O F T H E J U L I A N Y E A R

Leap Days	Julian Year	Year B.C.	Yearly Increase	Amount less than Sun Time	Hours, Minutes, etc.	T O T A L
						.209271 day
1	44	445	.25	.968794	5 hours	.114754
	5	44	.20	.759523		.073740
	6	43	.166666	.209271	5 hours	.050752
2	7	42	.142857			.036036
2	8	41	.25	.968794		.025803
	9	40	.222222	.854040		.018276
	10	39	.2	.114754	2.75 hours	.012505
	11	38	.181818			.007940
3	12	37	.25	.968794		.004239
	13	36	.230769	.895054		.001178
	14	35	.214285	.073740	1.76 hours	-----
	15	34	.2			.554494 " equals
4	16	33	.25	.968794		13.3 hours less than
	17	32	.235294	.918042		Sun Time for the per-
	18	31	.222222	.050752	1.2 hours	iod of 47 years.
	19	30	.210526			
5	20	29	.25	.968794		
	21	28	.238095	.932758		
	22	27	.227272	.036036	52 minutes	
	23	26	.217391			
6	24	25	.25	.968794		
	25	24	.24	.942991		
	26	23	.230769	.025803	37 minutes	
	27	22	.222222			
7	28	21	.25	.968794		
	29	20	.241379	.950518		
	30	19	.233333	.018276	26 minutes	
	31	18	.225806			
8	32	17	.25	.968794		
	33	16	.242424	.956289		
	34	15	.235294	.012505	18 minutes	
	35	14	.228571			
9	36	13	.25	.968794		
	37	12	.243243	.960850		
	38	11	.236842	.007940	11 minutes	
	39	10	.230769			
10	40	9	.25	.968794		
	41	8	.243902	.964555		
	42	7	.238095	.004239	6 minutes	
	43	6	.232558			
11	44	5	.25	.968794		
	45	4	.244444	.967616		
	46	3	.239130	.001178	1.6 minutes	
	47	2	.234042			
12	48 B.C.	1	.25			

In order to obtain the exact increase of the Julian year during the Christian Era, the summary of the averages given above should be subtracted from the T O T A L on TABLE I:

13.679489 days
.554494 "

13.124995 -- this figure corresponds to the number of days increase of the Julian year up to the year 1931, that is, its increase during the Christian Era.

Outlines

Johannine Feast Outline

Parker new moon outline drawing

Athenian list of new moon observations

Translation Periods from p. 46, Babylonian Chronology

Jewish Calendar tr. periods

Tr. Periods and time of moonsets {

J.C.T.

Yr	Conjunction	Calends	Tr.Per. (Days)	Waxing Period	Yr	Conjunction	Calends	Tr.Per. (Days)	Waxing Period		
16	Mar	27.25	III 29	1.50	14.86	21	Jan	2.11	I 4	1.64	15.60
	Apr	25.56	IV 27	1.19	15.18	"	31.71	II 3	1.04	15.50	
	May	24.88	V 27	1.87	15.43	Mar	2.35	III 4	1.40	15.24	
	June	23.24	VI 25	1.51	15.53	Apr	1.03	IV 3	1.72	14.89	
	July	22.70	VII 25	2.05	15.49	"	30.68	V 2	1.07	14.53	
	Aug	21.26	VIII 23	1.49	15.31	May	30.31	VI 1	1.44	14.20	
	Sept	19.95	IX 22	1.80	15.03	June	28.38	VI 30	.87*	13.98	
	Oct	19.72	X 22	2.03 ^b	14.68	July	28.39	VII 30	1.36	13.93	
	Nov	18.51	XI 20	1.24	14.34	Aug	26.84	VIII 28	.91*	14.05	
	Dec	18.27	XII 20	1.48	14.09	Sept	25.28	IX 27	1.47	14.31	
	17	Jan	16.94	I 18	.81*	13.98	Oct	24.70	X 26	1.05	14.67
		Feb	15.48	II 16	.27*	14.03	Nov	23.16	XI 25	1.59	15.04
Mar		16.93	III 18	.82*	14.21	Dec	22.62	XII 25	2.13	15.34	
Apr		15.27	IV 17	1.48	14.51	22	Jan	21.10	I 23	1.65	15.53
May		14.57	V 16	1.18	14.86	Feb	19.61	II 22	2.14	15.57	
June		12.85	VI 15	1.90	15.20	Mar	21.15	III 23	1.60	15.45	
July		12.16	VII 14	1.49	15.45	Apr	19.74	IV 21	1.01	15.19	
Aug		10.56	VIII 13	2.19 ^b	15.56	May	19.35	V 21	1.40	14.86	
Sept		9.08	IX 12	2.67 ^b	15.51	June	17.99	VI 20	1.76	14.50	
Oct		8.73	X 11	2.02	15.33	July	17.62	VII 19	1.13	14.20	
Nov		7.49	XI 10	2.26	15.02	Aug	16.22	VIII 18	1.53	14.01	
Dec		7.29	XII 9	1.46	14.67	Sept	14.78	IX 16	.97*	13.98	
18	Jan	6.00	I 7	.75*	14.32	Oct	14.31	X 16	1.44	14.09	
	Feb	4.82	II 6	.93*	14.06	Nov	12.80	XI 14	.95*	14.36	
	Mar	6.42	III 7	.33*	13.94	Dec	12.26	XII 14	1.49	14.70	
	Apr	4.89	IV 6	.86*	14.00	23	Jan	10.71	I 13	2.04	15.05
	May	4.27	V 6	1.48	14.20	Feb	9.13	II 11	1.62	15.34	
	June	2.56	VI 4	1.19	14.53	Mar	10.55	III 12	1.20	15.50	
	July	1.84	VII 4	1.91	14.91	Apr	9.00	IV 11	1.75	15.53	
	July	31.15	VIII 2	1.60	15.24	May	8.49	V 10	1.26	15.41	
	Aug	29.52	IX 1	2.23	15.48	June	7.03	VI 9	1.72	15.19	
	Sept	28.00	X 1	2.75	15.59	July	6.66	VII 9	2.09	14.85	
	Oct	27.58	X 30	2.17	15.54	Aug	5.32	VIII 7	1.43	14.51	
	Nov	26.29	XI 28	1.46	15.31	Sept	4.00	IX 6	1.75	14.22	
Dec	26.07	XII 28	1.68	14.98	Oct	3.67	X 5	1.08	14.03		
19	Jan	24.26	I 26	1.49	14.62	Nov	2.29	XI 4	1.46	14.01	
	Feb	23.61	II 25	1.14	14.27	Dec	1.87	XII 3	.88*	14.11	
	Mar	25.26	III 27	1.49	14.01	Dec	31.37	I 2	1.38	14.36	
	Apr	23.79	IV 25	.96*	13.91	24	Jan	29.80	I 31	.95*	14.69
	May	23.21	V 24	.54*	13.99	Feb	28.20	III 2	2.55 ?	15.03	
	June	21.55	VI 23	1.20	14.22	Mar	28.55	III 30	1.20	15.31	
	July	20.86	VII 23	1.89	14.57	Apr	26.90	IV 29	1.85	15.49	
	Aug	19.19	VIII 21	1.56	14.94	May	26.30	V 28	1.45	15.52	
	Sept	17.55	IX 20	2.20	15.29	June	24.78	VI 27	1.97	15.41	
	Oct	16.99	X 19	1.76	15.52	July	24.34	VII 27	2.41	15.19	
	Nov	15.53	XI 18	2.22	15.60	Aug	23.02	VIII 25	1.73	14.86	
	Dec	15.15	XII 17	1.60	15.54	Sept	21.75	IX 24	2.00	14.53	
20	Jan	13.85	I 16	1.90	15.30	Oct	21.50	X 23	1.25	14.23	
	Feb	12.59	II 14	1.16	14.96	Nov	20.22	XI 22	1.53	14.04	
	Mar	13.33	III 15	1.42	14.56	Dec	19.87	XII 21	.88*	14.00	
	Apr	12.00	IV 14	1.75	14.21	25	Jan	18.42	I 20	1.33	14.11
	May	11.58	V 13	1.17	13.99	Feb	16.87	II 18	.88*	14.36	
	June	10.07	VI 11	.68*	13.91	Mar	18.24	III 19	.51*	14.67	
	July	9.49	VII 11	1.26	14.02	Apr	16.57	IV 18	1.18	15.01	
	Aug	7.88	VIII 10	1.87	14.26	May	15.87	V 18	1.88	15.30	
	Sept	6.23	IX 8	1.52	14.61	June	14.20	VI 16	1.55	15.48	
	Oct	5.63	X 8	2.12	14.99	July	13.60	VII 16	2.15	15.54	
	Nov	4.06	XI 6	1.69	15.33	Aug	12.11	VIII 14	1.64	15.43	
	Dec	3.55	XII 6	2.20	15.55	Sept	10.75	IX 13	2.00	15.19	

Jerusalem Civil Time

Yr	Conjunction	Calends	Tr.Per. (Days)	Waxing Period	Yr	Conjunction	Calends	Tr.Per. (Days)	Waxing Period		
25	Oct	10.48	X 13	2.27	14.88	30	July	19.29	VII 21	1.46	13.95
	Nov	9.27	XI 11	1.48	14.53		Aug	17.78	VIII 19	.97	13.97
	Dec	9.06	XII 11	1.69	14.23		Sept	16.23	IX 18	1.52	14.16
26	Jan	7.80	I 10	1.95	14.02		Oct	15.67	X 17	1.08	14.47
	Feb	6.40	II 8	1.35	13.98		Nov	14.12	XI 16	1.63	14.83
	Mar	7.90	III 10	1.85	14.07		Dec	13.58	XII 16	2.17	15.18
	Apr	6.28	IV 8	1.47	14.32	31	Jan	12.05	I 14	1.70	15.43
	May	5.57	V 7	1.18	14.69		Feb	10.53	II 12	1.22	15.56
	June	3.86	VI 6	1.89	15.03		Mar	12.04	III 14	1.71	15.52
	July	3.16	VII 5	1.59	15.31		Apr	10.58	IV 12	1.17	15.36
	Aug	1.51	VIII 4	2.24	15.50		May	10.18	V 12	1.57	15.05
	Aug	30.97	IX 2	1.78	15.55		June	8.81	VI 11	1.94	14.71
	Sept	29.55	X 2	2.20	15.46		July	8.45	VII 10	1.30	14.37
	Oct	29.25	XI 1	2.50	15.22		Aug	7.09	VIII 9	1.66	14.10
	Nov	28.05	XI 30	1.70	14.87		Sept	5.68	IX 7	1.07	13.97
	Dec	27.86	XII 30	1.89	14.50		Oct	5.23	X 7	1.52	14.01
27	Jan	26.63	I 28	1.12	14.19		Nov	3.75	XI 5	1.00	14.20
	Feb	25.29	II 26	.46*	13.99		Dec	3.24	XII 5	1.51	14.49
	Mar	26.83	III 28	.92*	13.93	32	Jan	1.69	I 3	1.06	14.84
	Apr	25.24	IV 26	.51*	14.07		Jan	31.12	II 2	1.63	15.17
	May	24.58	V 26	1.17	14.34		Feb	29.53	III 2	1.22	15.41
	June	22.86	VI 25	1.89	14.70		Mar	29.95	IV 1	1.80	15.52
	July	22.16	VII 24	1.59	15.06		Apr	28.39	IV 30	1.36	15.51
	Aug	20.49	VIII 23	2.26	15.37		May	27.90	V 30	1.85	15.32
	Sept	18.92	IX 21	1.83	15.56		June	26.49	VI 28	1.26	15.03
	Oct	18.45	X 21	2.30	15.59		July	26.13	VII 28	1.62	14.70
	Nov	17.10	XI 19	1.65	15.46		Aug	24.81	VIII 27	1.94	14.38
	Dec	16.83	XII 19	1.92	15.20		Sept	23.51	IX 26	2.24	14.12
28	Jan	15.63	I 17	1.12	14.84		Oct	23.16	X 25	1.59	14.00
	Feb	14.39	II 16	1.36	14.46		Nov	21.77	XI 23	.98*	14.02
	Mar	15.10	III 16	.65*	14.13		Dec	21.32	XII 23	1.43	14.20
	Apr	13.68	IV 15	1.07	13.94	33	Jan	19.78	I 21	.97*	14.50
	May	13.16	V 14	.59*	13.91		Feb	18.19	II 20	1.56	14.84
	June	11.53	VI 13	1.22	14.08		Mar	19.55	III 21	1.20	15.16
	July	10.86	VII 12	.89*	14.37		Apr	17.90	IV 19	.85*	15.39
	Aug	9.18	VIII 11	1.57	14.74		May	17.26	V 19	1.49	15.52
	Sept	7.52	IX 10	2.23	15.12		June	15.69	VI 17	1.06	15.49
	Oct	6.93	X 9	1.82	15.43		July	15.20	VII 17	1.55	15.33
	Nov	5.43	XI 8	2.32	15.59		Aug	13.82	VIII 16	1.93	15.06
	Dec	5.01	XII 7	1.74	15.60		Sept	12.54	IX 15	2.21	14.71
29	Jan	3.67	I 6	2.08	15.44		Oct	12.29	X 15	2.46	14.39
	Feb	2.39	II 4	1.36	15.15		Nov	11.04	XI 13	1.71	14.14
	Mar	4.12	III 6	1.63	14.78		Dec	10.72	XII 12	1.03	14.02
	Apr	2.82	IV 5	1.93	14.39	34	Jan	9.33	I 11	1.42	14.03
	May	2.44	V 4	1.31	14.11		Feb	7.84	II 9	.91*	14.19
	May	31.99	VI 2	.76*	13.93		Mar	9.25	III 11	1.50	14.47
	June	30.44	VII 2	1.31	13.94		Apr	7.58	IV 9	1.17	14.82
	July	29.85	VIII 31	.90*	14.09		May	6.89	V 9	1.86	15.14
	Aug	28.21	IX 30	1.54	14.41		June	5.20	VI 7	1.55	15.40
	Sept	26.60	X 29	2.15	14.79		July	4.56	VII 7	2.19	15.52
	Oct	26.01	XI 28	1.74	15.16		Aug	3.01	VIII 5	1.74	15.51
	Nov	24.47	XII 27	2.28	15.44		Sept	1.58	IX 4	2.17	15.34
	Dec	23.99	XII 26	1.76	15.59		Oct	1.28	X 4	2.47	15.05
30	Jan	22.56	I 24	1.19	15.57		Oct	31.06	XI 2	1.69	14.71
	Feb	21.19	II 23	1.56	15.39		Nov	29.85	XII 2	1.90	14.39
	Mar	22.84	III 25	1.91	15.09		Dec	29.62	XII 31	1.13	14.12
	Apr	21.51	IV 23	1.24	14.72	35	Jan	28.29	I 29	.46*	13.97
	May	21.15	V 23	1.60	14.36		Feb	26.83	II 28	.92*	14.00
	June	19.75	VI 21	1.00	14.09		Mar	28.27	III 30	1.48	14.16

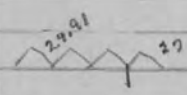
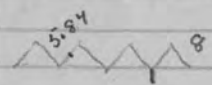
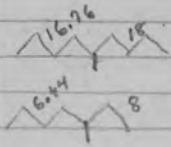
Jerusalem Civil Time

Yr	Conjunction	Calends	Tr.Per. (Days)	Waxing Period	Yr	Conjunction	Calends	Tr.Per. (Days)	Waxing Period	
	Apr	26.60	IV 28	1.15		Feb	1.46	II 3	1.29	15.51
	May	25.89	V 27	.86*		Mar	1.95	III 4	1.80	15.55
	June	24.17	VI 26	1.58		Mar	31.46	IV 2	1.29	15.46
	July	23.49	VII 26	2.26		Apr	30.01	V 2	1.74	15.24
	Aug	21.89	VIII 24	1.86		May	29.63	VI 1	2.12	14.91
	Sept	20.42	IX 23	2.33		June	28.28	VI 30	1.47	14.54
	Oct	20.07	X 22	1.68		July	27.92	VII 30	1.83	14.23
	Nov	18.82	XI 21	1.93		Aug	26.53	VIII 28	1.22	14.04
	Dec	18.64	XII 20	1.11		Sept	25.12	IX 27	1.63	13.97
36	Jan	17.43	I 19	1.32		Oct	24.67	X 26	1.08	14.08
	Feb	16.15	II 17	.60*		Nov	23.19	XI 25	1.56	14.31
	Mar	16.75	III 18	1.00		Dec	22.65	XII 24	1.10	14.64
	Apr	15.21	IV 17	1.54	41	Jan	21.09	I 23	1.66	14.99
	May	14.58	V 16	1.17		Feb	19.50	II 21	1.25	15.28
	June	12.89	VI 15	1.86		Mar	20.90	III 23	1.85	15.48
	July	12.17	VII 14	1.58		Apr	19.33	IV 21	1.42	15.52
	Aug	10.49	VIII 13	2.26		May	18.79	V 21	1.96	15.43
	Sept	8.86	IX 11	1.89		June	17.33	VI 19	1.42	15.21
	Oct	8.34	X 11	2.41		July	16.93	VII 19	1.82	14.91
	Nov	6.94	XI 9	1.81		Aug	15.61	VIII 17	1.14	14.57
	Dec	6.62	XII 9	2.13		Sept	14.32	IX 16	1.43	14.25
37	Jan	5.39	I 7	1.36		Oct	14.01	X 16	1.74	14.05
	Feb	4.19	II 5	.56*		Nov	12.65	XI 14	1.10	14.00
	Mar	5.92	III 7	.83*		Dec	12.23	XII 14	1.52	14.10
	Apr	4.56	IV 6	1.19	42	Jan	10.74	I 12	1.01	14.32
	May	4.09	V 5	.66*		Feb	9.16	II 11	1.59	14.65
	June	2.51	VI 4	1.24		Mar	10.54	III 12	1.21	14.98
	July	1.88	VII 3	.87*		Apr	8.87	IV 10	.88*	15.28
	July	31.19	VIII 2	1.56		May	8.22	V 10	1.53	15.47
	Aug	29.53	IX 1	2.22		June	6.60	VI 9	2.15	15.53
	Sept	27.91	IX 30	1.84		July	6.07	VII 8	1.68	15.44
	Oct	27.36	X 30	2.39		Aug	4.64	VIII 7	2.11	15.24
	Nov	25.90	XI 28	1.85		Sept	3.32	IX 6	2.43	14.91
	Dec	25.51	XII 28	2.24		Oct	3.07	X 5	1.68	14.57
38	Jan	24.19	I 26	1.56		Nov	1.83	XI 4	1.92	14.27
	Feb	22.92	II 24	.83*		Dec	1.57	XII 3	1.18	14.06
	Mar	24.62	III 26	1.13	43	Dec	31.23	I 2	1.52	13.99
	Apr	23.29	IV 25	1.46		Jan	29.78	I 31	.97	14.07
	May	22.88	V 24	.87*		Feb	28.23	III 1	.52*	14.30
	June	21.38	VI 23	1.37		Mar	29.58	III 31	1.17	14.63
	July	20.81	VII 22	.94*		Apr	27.89	IV 30	1.86	14.98
	Aug	19.21	VIII 21	1.54		May	27.18	V 29	1.57	15.28
	Sept	17.59	IX 20	2.16		June	25.50	VI 28	2.25	15.48
	Oct	17.00	X 19	1.75		July	24.91	VII 27	1.84	15.54
	Nov	15.43	XI 18	2.32		Aug	23.42	VIII 26	2.33	15.47
	Dec	14.92	XII 17	1.83		Sept	22.06	IX 24	1.69	15.25
39	Jan	13.46	I 15	1.29		Oct	21.82	X 24	1.93	14.91
	Feb	12.04	II 14	1.71		Nov	20.61	XI 22	1.14	14.58
	Mar	13.67	III 15	1.08		Dec	20.41	XII 22	1.34	14.27
	Apr	12.31	IV 14	1.44	44	Jan	19.14	I 20	.61*	14.03
	May	11.97	V 13	.78*		Feb	17.75	II 19	1.00	13.96
	June	10.60	VI 12	1.15		Mar	18.24	III 19	.51*	14.04
	July	10.17	VII 12	1.58		Apr	16.60	IV 18	1.15	14.30
	Aug	8.70	VIII 10	1.05		May	15.91	V 17	.84*	14.61
	Sept	7.18	IX 9	1.57		June	14.18	VI 16	1.57	14.99
	Oct	6.64	X 8	1.11		July	13.47	VII 16	2.28	15.32
	Nov	5.09	XI 7	1.66		Aug	11.83	VIII 14	1.92	15.51
	Dec	4.54	XII 6	1.21		Sept	10.30	IX 13	2.45	15.57
40	Jan	3.01	I 5	1.74		Oct	9.89	X 12	1.86	15.48
						Nov	8.59	XI 11	2.16	15.26
						Dec	8.38	XII 10	1.37	14.93

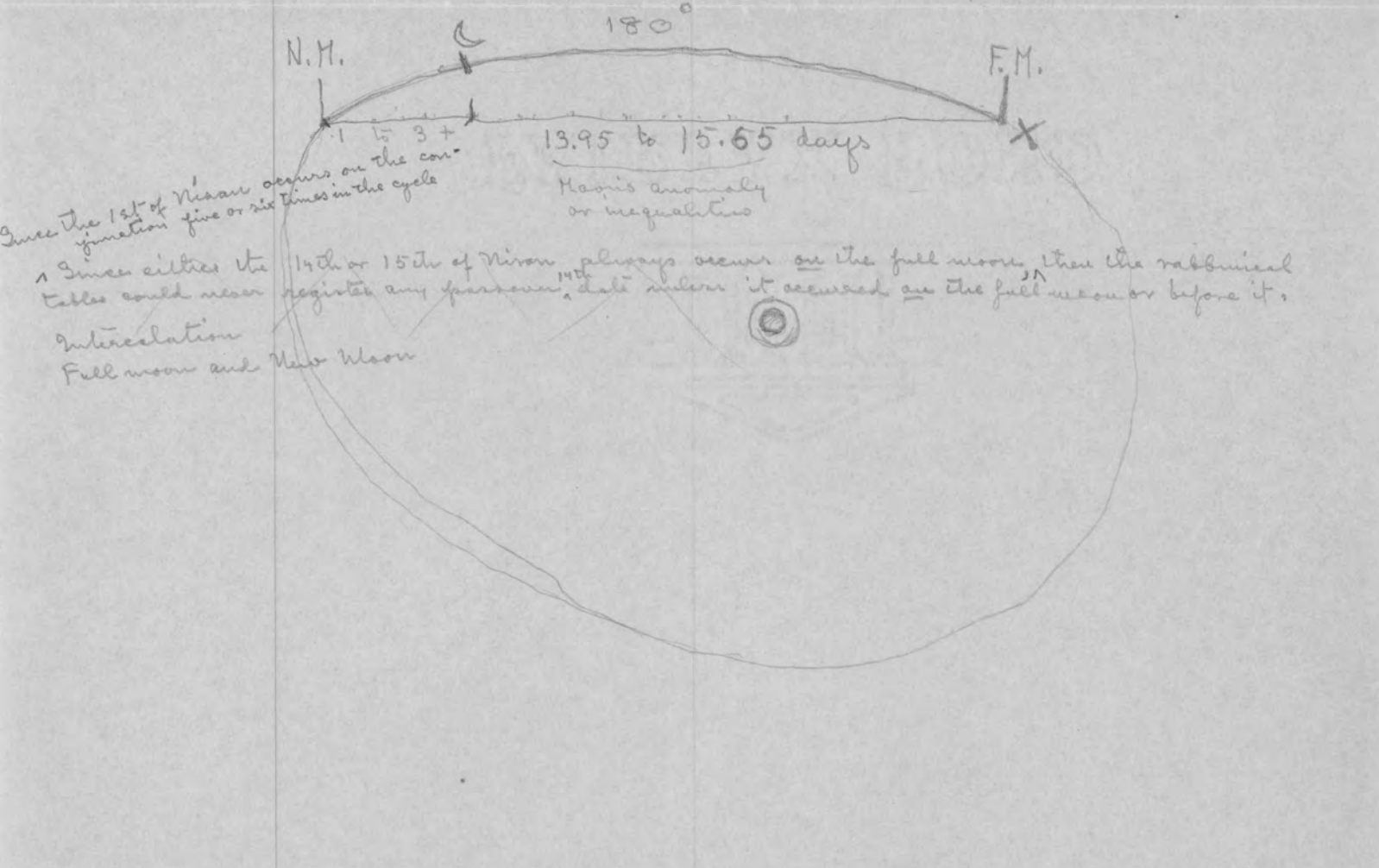
Dates in Babylonian Chron.

B.C.	3.E.T.	Conj.	1 Nisan	
31	x			
30	x			
28				
27				
18				
6				
3				
19	x			
22	x			
23	x			
30				
31				
32	x			
39	x			
40				
41	x			
48				
57				
58				
66	x			
75	x			
84	x			
93	x			
103				
109	x			
110				
119				
128				
137	x			
146	x			
155				
163				
164				
165				
171	x			
172	x			
182	x			
190				
191	x			
192	x			
199	x			
207	x			
208				
226				
235	x			
242				
243				
244	x			
253	x			
260	x			

269	x	IV	15.47	IV	17	1.28	15.43
270		III	28.53	III	30	1.22	15.53
279		IV	6.59	IV	8	1.16	15.52
286		III	25.81	III	27	.94	14.95
287		IV	5.14	IV	7	1.61	15.45
288		IV	15.70	IV	17	1.05	15.46
297	x	III	26.29	III	28	1.46	15.52
306	x	IV	5.40	IV	7	1.35	15.45
315	x	IV	14.52	IV	16	1.23	15.34
322	x	IV	2.50	IV	4	1.25	15.31
331	x	IV	11.51	IV	13	1.24	15.44
332		III	23.58	III	25	1.17	15.53
340		IV	20.54	IV	22	1.21	15.50
341		IV	1.64	IV	3	1.11	15.53
348		IV	19.19	IV	21	1.56	15.22
350		IV	11.74	IV	13	1.01	15.48
351		III	23.94	III	26	1.81	15.30
358	x	IV	10.23	IV	12	1.52	15.51
367	x	IV	19.29	IV	21	1.46	15.52
375		IV	17.87	IV	19	.88	15.39
376		III	29.92	III	31	.83	15.52
377	x	IV	9.56	IV	11	1.19	15.34
384	x	III	28.54	III	30	1.21	15.31
386	x	IV	19.72	IV	22	2.03	15.19
393	x	IV	6.56	IV	8	1.19	15.42



Year	1 Nis.		Conj. J.C.T.	Tr. Per.	F.M. J.C.T.	W. P.	6 o'clock 95
1835	Mar 31	Tu	Mar. 29.29	1.46	Apr. 13.39 ^{14th}	15.10	15.38 ¹
1836	Mar 19	Sa	Mar 17.47	1.28	Apr 2.01 ^{15th}	15.54	20
1837	Apr 6	Th	Apr 5.40	.35	Apr 20.95 ^{15th}	15.55	20
1838	Mar 27	Tu	Mar. 26.06	.75	Apr 10.18 ^{15th}	15.18	-
1839	Mar 16	Sa	Mar 15.68	.32	Mar 30.19 ^{15th}	14.51	-
1840	Apr 4	Sa	Apr 2.73	1.02 ^h	Apr 16.92 ^{14th}	14.19	-
1841	Mar 23	Tu	Mar 23.20 ^x	-.29 ^(6.5)	Apr 6.15 ⁻	13.95 ⁻	Low Limit 24
1842	Mar 12	Sa	Mar 12.36 ^x	-.61 ^(19.64)	Mar 26.67 ⁻	14.31	13
1843	Apr 1	Sa	Mar 31.08	.67	Apr 14.69 ^{14th}	14.61	1
1844	Mar 21	Th	Mar 19.10	1.65 ⁻	Apr 3.38 ^{14th}	15.28	21
1845	Apr 8	Tu	Apr 6.91	.84	Apr 22.89 ^{15th}	15.48	9
1846	Mar 28	Sa	Mar 27.33	.42	Apr 11.84 ^{15th}	15.51	29
1847	Mar 18	Th	Mar 16.97 ^{Per}	.78	Mar 31.98 ^{14th}	15.01	18
1848	Apr 4	Tu	Apr 4.05 ^x	-.24 ^(6.0)	Apr 18.70 ¹⁵	14.65	5
1849	Mar 24	Sa	Mar 24.68 ^x	-.93 ^(22.32)	Apr 7.75 ^{15th}	14.07	Low Limit 25
1850	Mar 14	Th	Mar 14.06 ^x	-.31 ^(7.44)	Mar. 28.07 ^{15th}	14.01	15
1851	Apr 3	Th	Apr 1.86	.89	Apr. 16.03 ^{14th}	14.17	30 3
1852	Mar 21	Su	Mar 20.87 ^x	-.12 ^(2.9)	Apr 4.69 ^{15th}	14.82	22
1853	Apr 9	Sa	Apr 8.58	.17	Apr 23.72 ^{15th}	15.14	10
1854	Mar 30	Th	Mar 28.79	.96	Apr 13.34 ^{15th}	15.55 ⁻	Peak 9



536

1 Nisan = April 1 Su

N.M. = Sept 22.54
1 Tishri = Sept. 25 Tu

F.M. = Oct 7
15 Tishri = Oct. 9.

448

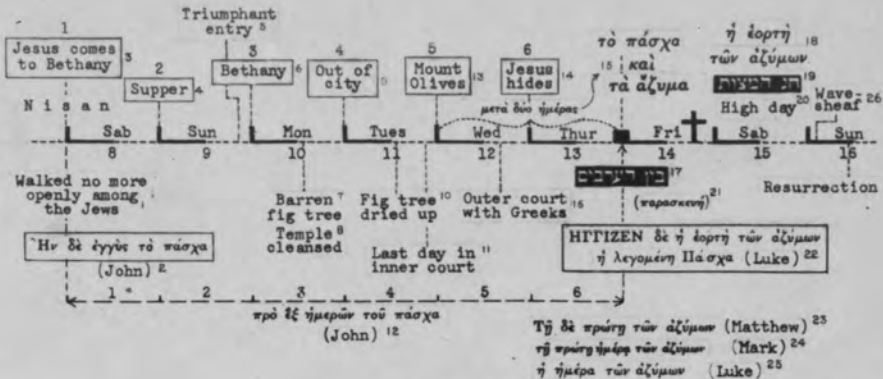
1 Nisan = Apr 22 T

1 Tishri = Oct. 16 S

F.M. = Oct 28.47 + 59 = 29.06
15 Tishri = Oct 30



Year	F.Moon	Pass.	Nisan 1	Conjunc.	Tr.P	Evening ineunte Nisan 1	Diff.	W. P.	Adar 1	Conjunc.	Tr.P	Evening ineunte Adar 1	Diff.
1920*	V 3.07	V 4	IV 21	IV 18.91	1.86	ss = 6:30 ms = 8:29	119 ^m	14.16	111 23	111 20.46	2.79	ss = 6:13 ms = 8:34	141 ^m
1921	IV 22:33	IV 23	IV 10	IV 8.38 ss = 6:23 ms = 6:41	1.39	ss = 6:23 ms = 7:40	79 ^m	13.95	111 12	111 9.76	1.99	ss = 6:05 ms = 7:52	107 ^m
1922	IV 11.86	IV 13	111 31	111 28.54 ss = 6:16 ms = 6:23	2.21	ss = 6:17 ms = 8:09	112 ^m	14.32	111 2	11 26.78	2.97	ss = 5:59 ms = 8:27	148 ^m
1923*	IV 30.90	V 2	IV 19	IV 16.27 ss = 6:27 ms = 6:46	2.50	ss = 6:28 ms = 8:30	122 ^m	14.63	111 21	111 17.54	3.21	ss = 6:11 ms = 8:50	159 ^m
1924	IV 19.59	IV 20	IV 7	IV 4.30 ss = 6:20 ms = 6:38	2.47	ss = 6:21 ms = 8:24	123 ^m	15.29	111 9	111 5.66	3.09	ss = 6:03 ms = 8:47	154 ^m
1925	IV 9.15	IV 10	111 28	111 24.58 ss = 6:13 ms = 6:17	3.18	ss = 6:15 ms = 9:13	178 ^m	15.57	11 27	11 23.09	3.66	ss = 5:56 ms = 9:33	217 ^m
1926*	IV 28.01	IV 29	IV 16	IV 12.54 ss = 6:25 ms = 6:31	3.23	ss = 6:27 ms = 9:40	193 ^m	15.47	111 18	111 14.14	3.61	ss = 6:09 ms = 9:55	226 ^m
1927	IV 17.15	IV 18	IV 5	IV 2.18 ss = 6:19 ms = 6:51	2.59	ss = 6:26 ms = 9:08	162 ^m	14.97	111 7	111 3.81	2.94	ss = 6:02 ms = 9:14	192 ^m
1928*	V 4.84	V 6	IV 23	IV 20.23 ss = 6:30 ms = 7:00	2.54	ss = 6:31 ms = 9:24	173 ^m	14.61	111 25	111 21.85	2.90	ss = 6:13 ms = 9:23	190 ^m
1929	IV 23.91	IV 25	IV 12	IV 9.86 ss = 6:23 ms = 6:11	1.91	ss = 6:24 ms = 8:24	120 ^m	14.05	111 14	111 11.36	2.39	ss = 6:07 ms = 8:26	139 ^m
1930	IV 13.24	IV 14	IV 1	111 30.24 ss = 6:17 ms = 6:41	1.51	ss = 6:18 ms = 7:40	82 ^m	14.00	111 3	11 28.56	2.19	ss = 6:00 ms = 7:52	112 ^m
1931*	V 2.22	V 3	IV 20	IV 18.04 ss = 6:28 ms = 7:06	1.73	ss = 6:29 ms = 8:04	95 ^m	14.18	111 22	111 19.33	2.42	ss = 6:11 ms = 8:15	124 ^m
1932	IV 20.89	IV 22	IV 9	IV 6.06 ss = 6:22 ms = 6:56	2.71	ss = 6:23 ms = 8:47	144 ^m	14.83	111 11	111 7.32	3.43	ss = 6:05 ms = 9:02	177 ^m
1933	IV 10.57	IV 11	111 29	111 26.14 ss = 6:15 ms = 6:46	2.61	ss = 6:16 ms = 8:40	144 ^m	15.43	11 28	11 24.53	3.22	ss = 5:57 ms = 8:58	181 ^m
1934*	IV 29.53	IV 30	IV 17	IV 14.00 ss = 6:26 ms = 7:12	2.77	ss = 6:27 ms = 9:15	168 ^m	15.53	111 19	111 15.51	3.24	ss = 6:10 ms = 9:28	198 ^m
1935	IV 18.88	IV 20	IV 7	IV 3.51 ss = 6:19 ms = 6:35	3.26	ss = 6:21 ms = 9:56	215 ^m	15.37	111 9	111 5.11	3.64	ss = 6:03 ms = 10:06	243 ^m
1936	V 6.63	V 7	IV 24	IV 21.52 ss = 6:31 ms = 6:48	2.25	ss = 6:32 ms = 6:48	156 ^m	15.11	111 26	111 23.18	2.57	ss = 6:14 ms = 9:13	179 ^m
1937*	IV 25.64	IV 26	IV 13	IV 11.22 ss = 6:24 ms = 7:01	1.55	ss = 6:25 ms = 8:11	106 ^m	14.12	111 15	111 12.81	1.94	ss = 6:07 ms = 8:14	127 ^m
1938	IV 14.77	IV 16	IV 3	111 31.79 ss = 6:18 ms = 6:14	1.96	ss = 6:19 ms = 8:20	121 ^m	13.98	111 5	111 2.24	2.51	ss = 6:01 ms = 8:26	145 ^m
1939*	V 3.64	V 4	IV 21	IV 19.69 ss = 6:29 ms = 6:30	1.08	ss = 6:30 ms = 7:28	58 ^m	13.95	111 23	111 21.08	1.67	ss = 6:12 ms = 7:41	89 ^m
1940	IV 22.19	IV 23	IV 10	IV 7.85 ss = 6:22 ms = 6:14	1.92	ss = 6:23 ms = 8:00	97 ^m	14.34	111 12	111 9.10	2.65	ss = 6:06 ms = 8:18	132 ^m
1941	IV 11.89	IV 13	111 31	111 27.84 ss = 6:15 ms = 6:07	2.86	ss = 6:24 ms = 8:42	138 ^m	15.05	111 2	11 26.14	3.61	ss = 6:00 ms = 9:05	185 ^m
1942*	IV 30.92	V 2	IV 19	IV 15.61 ss = 6:27 ms = 6:28	3.16	ss = 6:28 ms = 9:08	160 ^m	15.31	111 21	111 16.99	3.76	ss = 6:11 ms = 9:31	200 ^m
1943	IV 20.47	IV 21	IV 8	IV 4.91 ss = 6:20 ms = 6:04	2.86	ss = 6:22 ms = 9:02	160 ^m	15.56	111 10	111 6.44	3.31	ss = 6:04 ms = 9:21	197 ^m



Reduce to 5 inches

NATURE OF ANCIENT JEWISH CALENDAR

A.D. 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44

Day after conjunc.

I JEWISH NEW MOON GRAPH Passover = day after F.M.

J.C.T. Ap Per Ap Per Ap (Brown)

1 Nisan

Tr.P.

II BABYLONIAN NEW MOON GRAPH (Schoch) Nisan

Tr.P.

1 Nisan Ap Per Ap Per Ap (Brown)

Passover = before, on, or after F.M.

III WAXING PERIOD GRAPH (Astronomical) Nisan

Day of Full Moon

←.....9 yrs.....*.....9 yrs.....→

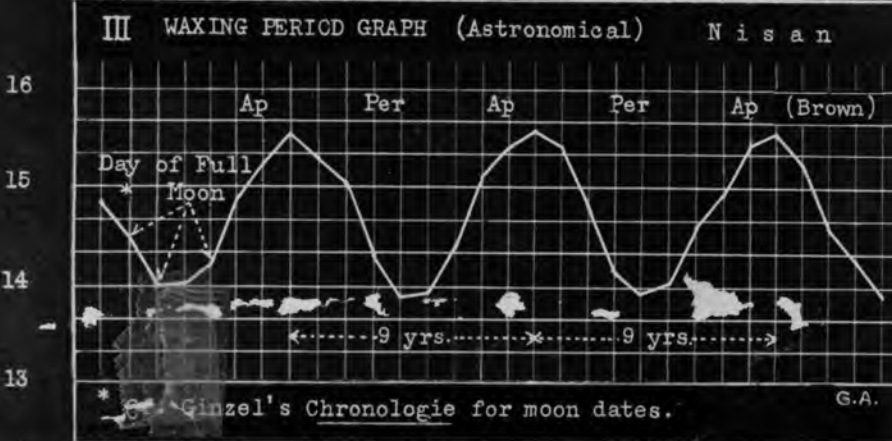
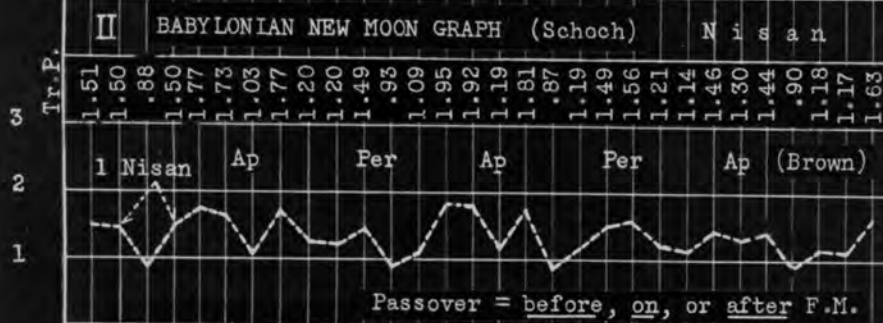
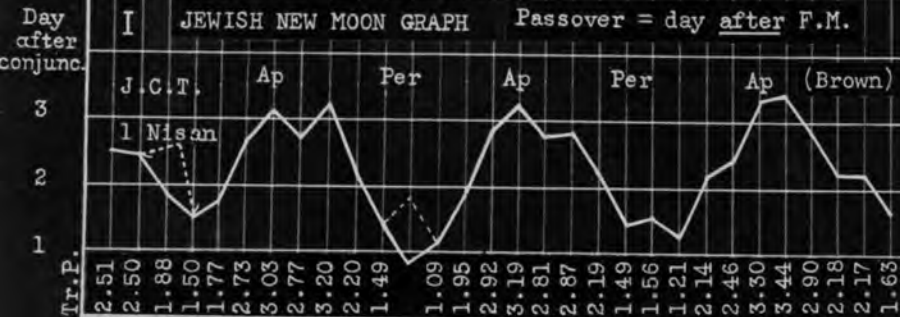
* Cf. Ginzler's Chronologie for moon dates.

G.A.

Tr.P. = Translation Period. Ap = Apogee. Per = Perigee

NATURE OF ANCIENT JEWISH CALENDAR

A.D. 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44



Tr.P. = Translation Period. Ap = Apogee. Per = Perigee

NATURE OF ANCIENT JEWISH CALENDAR

A.D. 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44

Day after conjunc.

I JEWISH NEW MOON GRAPH Passover = day after F.M.

J.C.T. Ap Per Ap Per Ap (Brown)

1 Nisan

Tr.P.	2.51	2.50	1.88	1.50	2.73	3.03	2.77	3.20	2.20	1.49	1.09	1.95	2.92	3.19	2.81	2.87	2.19	1.49	1.56	1.21	2.14	2.46	3.30	3.44	2.90	2.18	2.17	1.63
-------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

II "BABYLONIAN" NEW MOON GRAPH (Schoch) N i s a n

Tr.P.	1.51	1.50	.88	1.50	1.73	1.03	1.77	1.20	1.20	1.49	.93	1.09	1.95	1.92	1.19	1.81	.87	1.19	1.49	1.56	1.21	1.14	1.46	1.30	1.44	.90	1.18	1.17	1.63
-------	------	------	-----	------	------	------	------	------	------	------	-----	------	------	------	------	------	-----	------	------	------	------	------	------	------	------	-----	------	------	------

1 Nisan Ap Per Ap Per Ap (Brown)

Passover = before, on, or after F.M.

III WAXING PERIOD GRAPH (Astronomical) N i s a n

Day of Full Moon

← 9 yrs. * 9 yrs. →

14.86	14.51	14.00	14.01	14.21	14.89	15.19	15.53	15.31	15.01	14.32	13.93	13.94	14.39	15.09	15.36	15.53	15.39	14.82	14.16	13.98	14.03	14.61	14.94	15.54	15.28	14.53	14.30	13.58
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Tr.P. = Translation Period. Ap = Apogee. Per = Perigee

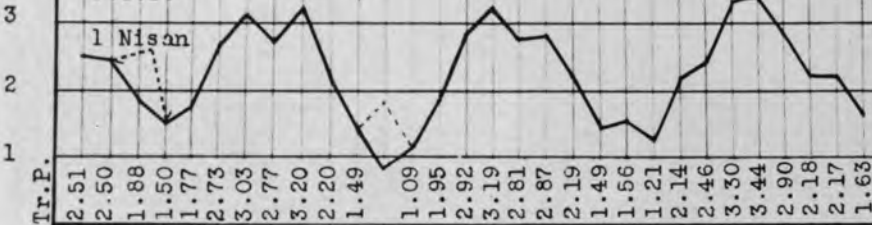
NATURE OF ANCIENT JEWISH CALENDAR

A.D. 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44

Day after conjunc.

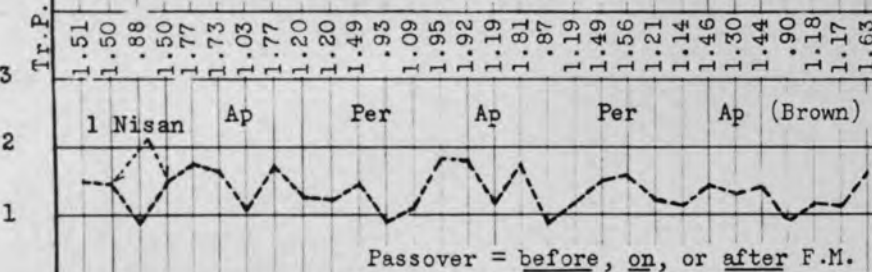
I JEWISH NEW MOON GRAPH Passover = day after F.M.

J.C.T. Ap Per Ap Per Ap (Brown)



II BABYLONIAN NEW MOON GRAPH (Schoch) Nisan

1 Nisan Ap Per Ap Per Ap (Brown)



III WAXING PERIOD GRAPH (Astronomical) Nisan

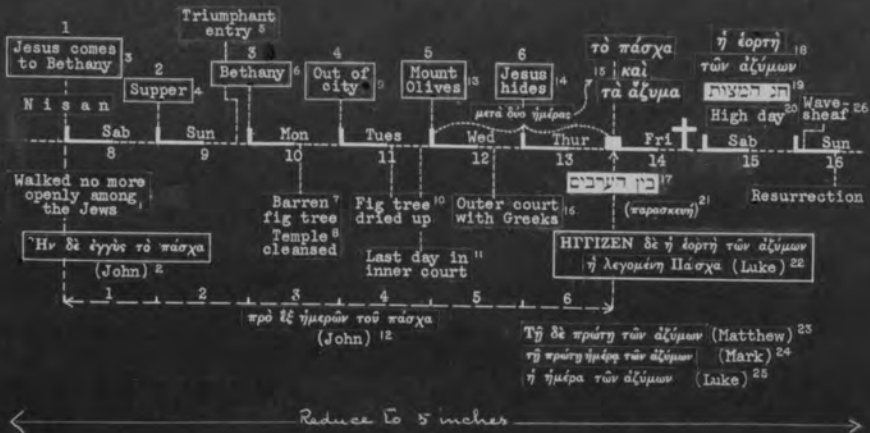
Day of Full Moon *



* Cf. Ginzel's Chronologie for moon dates.

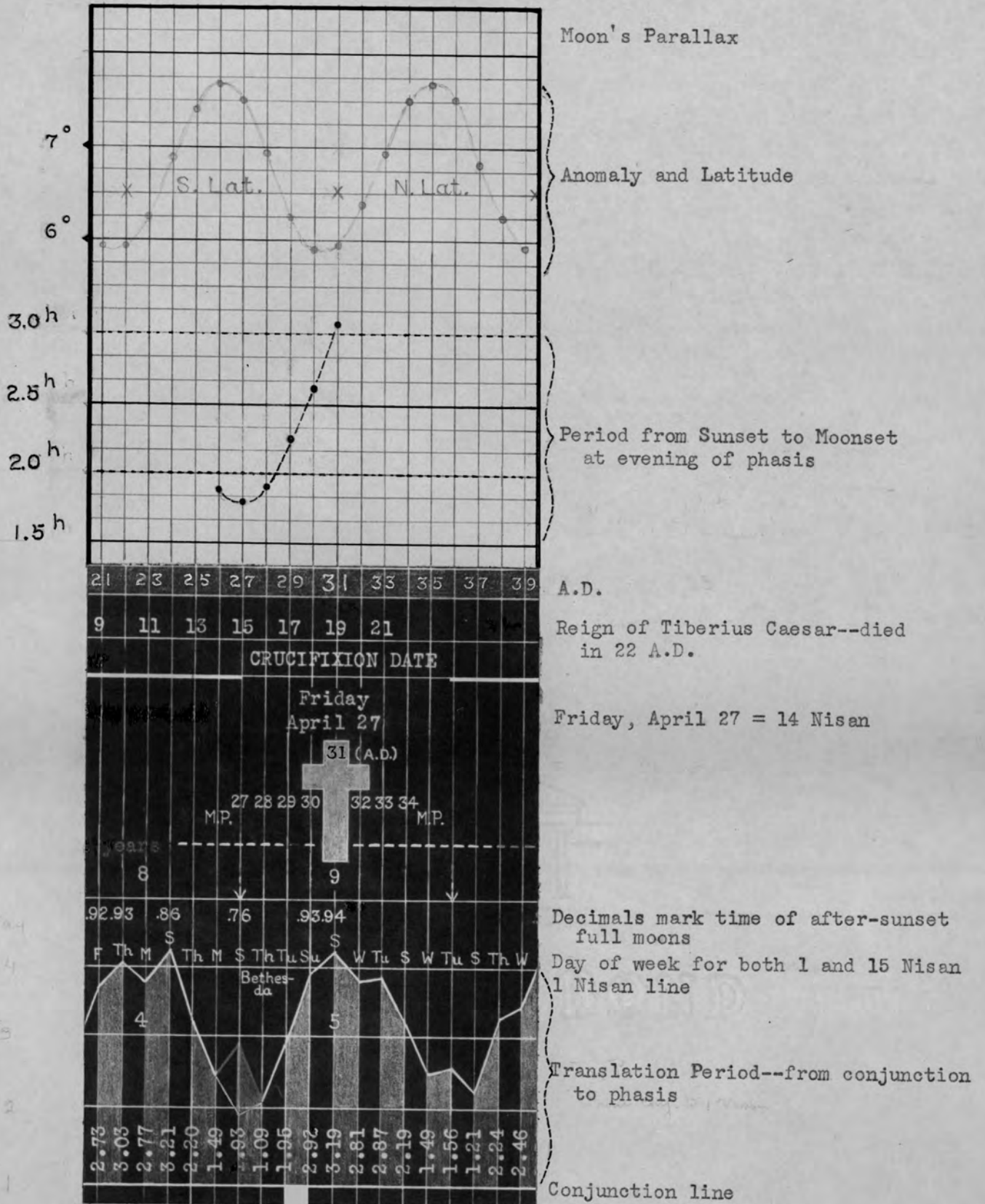
G.A.

Tr.P. = Translation Period. Ap = Apogee. Per = Perigee



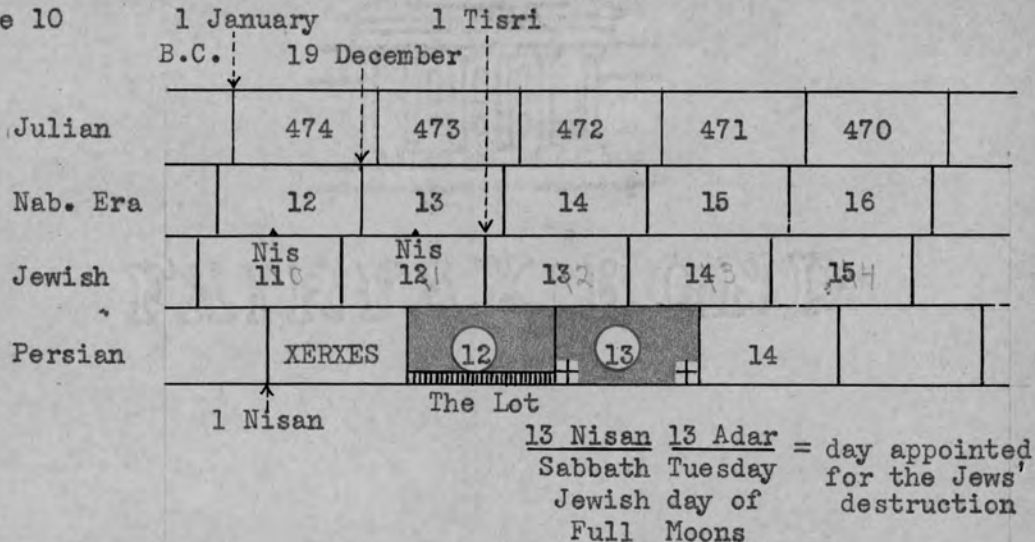
PLACE OF NISAN NEW MOON IN CRUCIFIXION PERIOD

(Computed from tables of Brown, Newcomb, and Ginzel)



No	Year	Comp.	Date	Tr. P.	Alt.	Mag.	Vis.	W.P.	Anomaly	No	Year	Comp.	Date	Tr. P.	Alt.	Mag.	Vis.	W.P.	Anomaly	
1	1859	Jan 30.70	July 1	1.05	12.7	10.0	+	14.42	Jly 1.7 = 0	55	1875	Jly 3.27	Jly 4	1.48	17.4	12.2	+	15.34	Jly 1.54 = 0	
2	"	Oct. 26.02	Oct. 27	1.68	6.1	20.5	+	15.57	Oct. 22.5 = 0	56	1876	Feb 25.31	Feb. 26	1.44	16.1	5.5	+	14.00	Feb 19.16 = 0	
3	1860	Jan. 23.06	Jan. 23	1.69	6.0	3.2	-	15.10	Jan. 25.7 = 0	57	"	Jan 21.98	Jan 22	.77	11.9	4.6	-	14.72	Jan 21.16 = 0	
4	"	Feb. 21.87	Feb. 23	1.88	20.2	2.4	+	14.71	Feb. 21.9 = 0	58	1877	Jly 21.25	Jly 22	1.50	14.6	15.9	+	15.07	Jly 20.54 = 0	
5	"	Jan 19.27	Jan 20	1.48	15.4	12.5	+	13.95	Jan 29.37 = 0	59	"	Mar 15.17	Mar 16	1.58	18.0	5.3	+	14.12	Mar 10.75 = 0	
6	1861	Mar 11.62	Mar 12	1.13	12.8	1.8	+	15.02	Mar 13.5 = 0	60	"	Jan 11.66	Jan 12	1.09	14.7	6.4	+	14.09	Jan 14 = 0	
7	"	Aug 6.59	Aug 7	1.16	5.2	15.2	-	13.95	Aug 10.18 = 0	61	1878	Nov 5.42	Nov 7	2.33	11.1	27.2	+	15.56	Nov 2.08 = 0	
8	"	" 6.59	Aug 8	2.16	11.2	27.1	+	"	"	62	"	Dec 4.97	Dec 6	1.78	10.8	18.1	+	15.57	Dec 11.83 = 0	
9	"	Sept 4.97	Sept 7	2.78	12.9	36.4	+	14.16	Sept 6.54 = 0	63	"	Jan 3.64	Jan 5	2.11	17.8	14.9	+	15.42	Jan 8.66 = 0	
10	"	Oct 4.34	Oct 5	1.41	5.3	19.4	-	14.48	Oct 5.25 = 0	64	"	Jan 1.12	Jan 2	1.63	18.6	8.7	+	13.92	Jan 9.96 = 0	
11	"	Nov 2.72	Nov. 4	2.03	12.7	25.2	+	15.10	Nov 2.7 = 0	65	"	June 30.57	June 1	1.18	12.2	10.4	+	13.93	June 5.04 = 0	
12	"	Dec 2.19	Dec 3	1.56	13.6	16.6	+	15.19	Dec 1.21 = 0	66	"	Jly 29.95	Jly 31	1.80	12.2	21.7	+	14.11	Jly 9.96 = 0	
13	1862	Dec 31.63	Jan 1	1.12	12.3	7.1	+	15.50	Dec 29.54 = 0	67	"	Oct 26.01	Oct 27	1.74	7.9	28.0	+	15.15	Oct 25.25 = 0	
14	"	Jan 30.47	Mar 31	1.28	15.9	0.4	+	15.20	Jan 3.79 = 0	68	1879	Nov. 24.43	Nov 26	2.32	15.8	26.2	+	15.45	Nov 22.63 = 0	
15	"	Apr 29.03	Apr 29	.72	8.6	0.1	-	14.98	Apr 1.25 = 0	69	"	May 21.29	May 23	2.46	24.9	12.3	+	14.33	May 18.92 = 0	
16	"	Jly 26.93	Jly 28	1.82	8.6	20.5	-	14.03	Jly 22.16 = 0	70	"	June 19.90	June 22	2.85	23.5	24.9	+	14.05	June 15.42 = 0	
17	1864	Jan 9.37	Jan 10	1.38	18.4	6.5	+	14.60	Jan 10.08 = 0	71	"	Jly 19.43	Jly 22	3.32	20.0	37.1	+	13.92	Jly 13.13 = 0	
18	"	Mar 8.22	Mar 9	1.53	21.1	2.3	+	15.26	Mar 7.09 = 0	72	"	Dec 12.51	Dec 11	-1.25	21.6	25.9	+	15.52	Dec 12.71 = 0	
19	"	May 6.06	May 6	.69	7.9	4.6	-	15.55	May 13.87 = 0	73	"	"	Dec 12	-0.26	11.2	13.3	-	"	"	
20	"	June 4.54	June 6	2.26	18.5	20.0	+	15.46	June 10.62 = 0	74	"	"	Dec 14	2.24	10.8	12.1	-	"	"	
21	"	Aug 2.66	Aug 4	2.09	8.7	22.1	-	14.96	Aug 4.83 = 0	75	1880	"	Dec 15	3.24	21.1	21.6	+	"	"	
22	"	Sept 1.31	Sept 3	2.44	11.4	25.8	+	14.62	Sept 1.00 = 0	76	"	Dec 12.51	Dec 10	"	13.4	19.4	+	"	"	
23	"	Oct 30.69	Nov 1	2.06	13.7	18.7	+	14.09	Oct 25.75 = 0											
24	1865	Jan 27.45	Jan 28	1.30	17.8	3.4	+	14.28	Jan 2.9.13 = 0			May, 1910								
25	"	Mar 27.28	Mar 28	1.47	20.0	5.4	+	15.51	Mar 2.7 = 0											
26	"	Apr 25.64	Apr 26	1.11	13.6	7.2	+	15.26	Apr 24.41 = 0											
27	"	June 23.38	June 24	1.37	9.2	16.0	-	15.52	June 18.6 = 0											
28	"	Jly 22.82	Jly 24	1.93	9.7	21.3	+	15.46	Jly 28.92 = 0											
29	"	Oct 19.74	Oct 21	2.01	12.8	17.3	+	14.64	Oct 19.29 = 0											
30	1866	Jan 16.91	Jan 17	.84	10.7	0.8	-	13.99	Jan 23.9 = 0											
31	"	Apr 15.34	Apr 16	1.41	18.0	9.2	+	14.60	Apr 15.9 = 0											
32	1867	Feb 4.81	Feb 5	.84	10.5	1.8	-	14.06	Feb 30.5 = 0											
33	"	Nov 26.26	Nov 27	1.49	13.7	9.6	+	15.30	Nov 30.3 = 0											
34	1868	June 20.66	June 22	2.09	19.7	22.8	+	14.25	June 22.25 = 0											
35	1869	May 11.72	May 12	1.03	9.1	9.4	-	13.97	May 6.25 = 0											
36	1870	Jly 28.52	July 25		32.8	23.3	+		July 21.25 = 0											
37	1871	Feb 19.62	Feb 20	1.13	11.4	8.9	+	15.58	Feb 26.87 = 0											
38	"	Apr 19.86	Apr 20	.89	8.4	7.0	-	15.15	Apr 23.3 = 0											
39	"	May 19.50	May 20	1.25	11.2	8.0	-	14.78	May 20.63 = 0											
40	"	June 18.15	June 18	.60	5.8	4.6	-	14.47	June 16.79 = 0											
41	"	"	June 19	1.60	14.2	10.9	+	"	"											
42	"	Aug. 16.34	Aug 17	1.41	12.9	12.1	+	13.97	Aug 10.79 = 0											
43	"	Sept. 14.85	Sept 14		8.8	2.8	+		Sept 20.5 = 0											
44	1872	June 6.19	June 7	1.56	15.3	9.0	+	15.15	June 9.63 = 0											
45	"	Jly 5.82	Jly 6	.93	9.8	5.6	-	14.81	Jly 7 = 0											
46	"	Sept 3.09	Sept 4	1.66	13.1	14.3	+	14.17	Sept 27.08 = 0											
47	"	"	Sept 30		28.7	2.1	+		"											
48	"	Oct 2.70	Oct 3	1.05	8.9	9.0	-	14.00	Sept 27.08 = 0											
49	"	"	Oct 4	2.05	13.6	20.3	+	"	"											
50	"	Dec. 30.32	Dec 31	1.43	12.2	15.3	+	14.41	Dec 31.58 = 0											
51	1873	Apr 27.0	Apr 27	.75	9.1	4.2	-	15.52	Apr 29.83 = 0											
52	"	May 26.41	May 27	1.31	15.2	6.5	+	15.53	May 20.0 = 0											
53	"	Dec 19.83	Dec 20	.92	4.9	10.4	-	14.01	Dec 24.84 = 0											
54	1874	Apr 16.63	Apr 17	1.12	15.3	4.2	+	15.09	Apr 15.96 = 0											

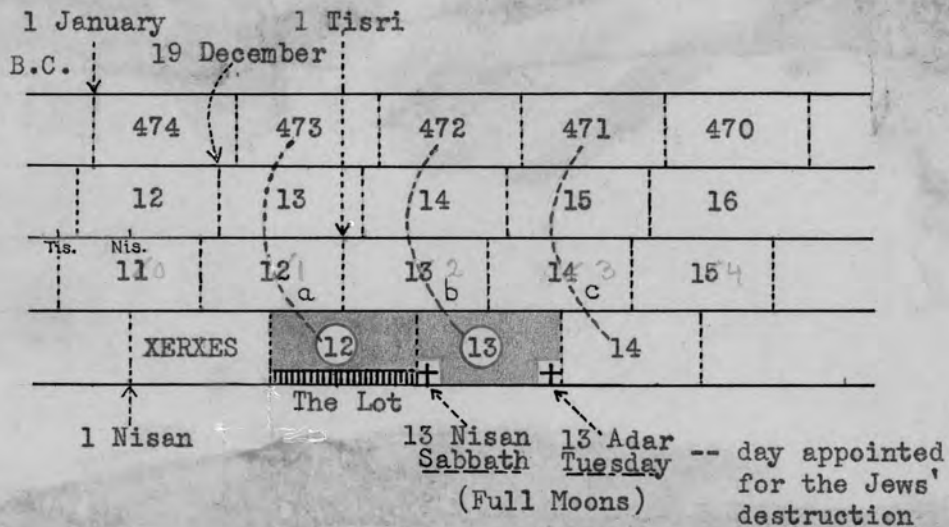
Figure 10



SYNCHRONISM I

The story of Esther is so well known that it need not be repeated here by way of introduction. It is designed only to show the important relation of this familiar history to early luni-solar time. That Haman followed the Persian year in his reckoning is evident from the fact that he began the "lot" with Nisan, which the writer of Esther calls the "first month", thereby making the Persian name synonymous with the Jewish. This is the only instance in the Bible where the Persian month Nisan is identified with the Jewish first month. The book of Esther also introduces into its narrative three other Persian months, which are defined in terms of the Jewish--Sivan (third), Tebeth (tenth), and Adar (twelfth).⁹ It is therefore possible to connect the Persian calendar with the Jewish and Julian set up for the reign of Xerxes, as outlined in Table "X". The following diagram indicates the correspondence relating to these various calendars:

Figure 10



DEMONSTRATION The only logical position for the Persian year is to make its month Nisan begin with the Jewish Nisan, as in Figure 10. In order to accomplish this coincidence, the Persian year itself has to begin after the Jewish. Should it begin before, that is, for example, should the 12th of Xerxes be dated a year earlier, then the Persian Nisan and its subsequent months would be controlled by the Julian year 474 B.C., while the Jewish Nisan and its subsequent months would be governed by the year 473 B.C. Hence the two calendars would disagree in their embolisms. Therefore, the conclusion is obvious that the ancient Persian Nisan, upon which the Esther

⁹ Esther 8:9; 2:16; 3:12.

JOHANNINE FEAST OUTLINE

A.D.

- 27 Autumn Baptism--Daniel's prophetic years counted from fall to fall, as in the Ezra-Nehemiah reckoning.
- Jesus appears in crowd at Bethabara after His forty days' fast. John baptizing (John 1:28).
- 28 Spring Wed 1. Passover in John 2--before imprisonment of Baptist (John 3:23).
- Autumn Sab Tabernacles--healing at Bethesda. John still witnessing (John 5:32,33). Stoning (John 5:18).
- 29 Spring Mon 2. Passover near corn harvest (Mark 2:23; Luke 6:1; Matt. 12:1)--after imprisonment of Baptist (Mark 1:14).
- 30 Spring Sab 3. Passover in John 6 (early season)--after John's death. Jesus did not attend.
- Autumn Tues Tabernacles in John 7--feast preceding fourth passover. Stoning (John 8:59).
- Winter Feast of Dedication. Stoning (John 10:31).
- 31 Spring Fri 4. Crucifixion Passover (season late).

Argument: "Unnamed feast" could not have been Passover, for all four passovers are otherwise accounted for, and neither the first or second occurred on the Sabbath. It could not have been Pentecost, which, in 28 A.D., was on Friday. Neither could it have been Purim (14 Adar), which in this year was on Sunday. Hence the unnamed feast must have been Tabernacles, whose first and last days were on Sabbath in 28 A.D., and one of which witnessed the healing of the impotent man without doubt.

In the ancient Jewish year, Purim, Pentecost, and Tabernacles may occur on the same day of the week; but the year 28-29 had 355 days, on account of which each one of these feasts occurred on a different day of the week, thereby identifying the feast in John 5.

Grace Amadon, July 11, 1943.



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