The Golden Age

A JOURNAL OF FACT HOPE AND COURAGE



in this issue

THE SECOND HAND IN THE TIMEPIECE OF GOD

An explanation respecting a complete change of calendar, with suggestions as to how the **Calendar of Jehovah God** can be put into effect easily and naturally, without any confusion

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Volume XVI

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Number 404

The Second Hand in the Timepiece of God

(In 3 Parts—Part 1)

AN EXPLANATION RESPECTING A COMPLETE CHANGE OF CALENDAR, WITH SUGGESTIONS AS TO HOW THE CALENDAR OF JEHOVAH GOD CAN BE PUT INTO EFFECT EASILY AND NATURALLY, WITHOUT ANY CONFUSION. Copyright, 1935, by Golden Age Publishing Co., Inc., Brooklyn, N.Y., U.S.A.

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MATTERS have arisen recently to call sharp attention to the Gregorian calendar and its confusions, and to direct attention to the Word of God on the subject of time, with a consideration of what may be called the timepiece of God, the beautiful and orderly arrangement of the sun and moon as they were set in the heavens by the Creator "to rule over the day and over the night" (Genesis 1:18), 'to be for signs, and for seasons, and for days, and for years.'— Genesis 1:14.

This is no nonsense, or worse than nonsense from the Great Pyramid in Egypt (built with unpaid slave labor), but there is now a wealth of information regarding the exact length of the year, and the exact length of the lunation (from one new moon to another), which makes all past history an open book, where the number of years involved is known, and where there is associated with those years some marked reference to the moon.

"The Precious Things Put Forth"

It is an interesting possibility indicated by Moses when he mentions "the precious things put forth by the moon". (Deuteronomy 33:14) In the beautifully working parts of His great timepiece Jehovah God has preserved evidence that will yet shame all the wise of the earth.

Does it not seem a very wonderful thing, a gift from Jehovah God, that Jehovah's people may now have a perfect calendar of the Lord's life, knowing, for example, in terms of the Gregorian calendar, with which all are familiar, the exact days of the week, month and year when, as a boy, He remained behind in the temple, asking and answering questions; that they may know the exact date when Moses came marching out of Egypt, the exact date the Jordan was crossed by the forces under Joshua, the exact

date Noah and his family went into the ark, and the day they came out, and the probable day of Adam's creation, all from the silent movements going on constantly by which the sun and the moon never get out of place or out of order, as do other clocks, but are far enough away that no mischief-maker can get at them to interfere?

It is so simple, when one gets into the subject, that it is passing strange that Jehovah's people never became interested in it before. Though the moon has its variations in speed, yet the mean lunation, 29 days 12 hours 44 minutes 2.864976 seconds (2551442.864976 seconds), is one of the definite fixtures of the heavens, and its reliability is such that astronomers meet and gravely discuss the reasons for differences of so small an amount as 1/1000th of a second in a lunation.

The nature of the oscillations of the moon is known many years in advance, and will be laid before the reader, and he will be able to make intelligent predictions as to times of lunations himself. Nor will this knowledge, when understood, lessen confidence in the second hand of God's timepiece, but rather increase it. A man may run up and down the length of a swiftly moving train and thus move slower or faster through the surrounding country, yet, after all, the net result is not changed if he quietly stays in his seat. That is the way it is respecting the oscillations of the moon.

In his work *The Calendar; Its History, Structure and Improvement* (published by the Macmillan Company) Prof. Alexander Philip, LL.B., F.R.S., of Edinburgh, says the exact length of the year is 365 days 5 hours 48 minutes 46.15 seconds. He made a careful study and had access to many works; in this production it is assumed that his statements are correct.

BROOKLYN, N. Y.

Indebtedness is acknowledged to 220 works on astronomy; also to Dr. Clyde Fisher, Ph. D., LL.D., curator of the Department of Astronomy, The American Museum of Natural History, 77th street and Central Park West, New York city. Dr. Fisher is rated the ablest astronomer in New York.

An Intricate, Confusing Subject

Gentile scholars of eminence sadly say that years are "incommensurable"; an incorrect but excusable statement, in view of the difficulties involved. There is only one way out: God's way; which way is simplicity itself, as will appear in due course.

That the Jews are confused is self-evident. Here is what the International dictionary says of their efforts: "The common year is said to be defective, regular or perfect (or abundant) according as it has 353, 354 or 355 days. The leap year has an intercalary month, and a total of 383 (defective), 384 (regular), or 385 (perfect, or abundant) days. The calendar is complicated by various rules providing for the harmonious arrangement of festivals, etc., so that no simple perpetual calendar can be constructed." In their calendar the Jews show only 3.761 years in the era B.C., whereas the Scriptures, preserved in their midst, show that somewhere, somehow, they have lost account of at the very least 267 years. Jehovah's people have nothing to learn from the Jews on this subject; the Jews have lost the "key of knowledge".-Luke 11:52.

Jehovah's people are not interested in the old Roman calendar of ten months in a year, even though "Christendom" still uses the original names of the last four months of that year: September, October, November, December.

They are not interested in the old Greek calendar, the use of which caused such confusion in the Roman empire that in the year 46 B.C. it was necessary to add two months to the year, making it fourteen months long, in order to bring the seasons back to their proper position.

They are not interested in the Julian calendar, which followed, unless they chance to live in Greece, or unless they are astronomers. The first of the year, with the Greeks, is thirteen days behind the one now in general use. The reason why the astronomers cling to the Julian reckoning is that it has been in use constantly, in some sections of the world, 1,980 years. They merely use it as a convenient measuring rod, to connect up with the past. Julian days, used by all astronomers, begin to count 250,310 days prior to the day of Adam's creation, and are to that extent in error. In this article the Edenic day, i.e., the day from Adam's creation, is substituted for the Julian day; and it is hoped that all astronomers, in the interest of pure truth, will adopt and accept and use the Edenic day exclusively.

Jehovah's people disdain to consider for a moment the Mohammedan calendar, which takes its start in July of the year 622 (A.D.), and which even the Mohammedans no longer take seriously.

Napoleon put an end to the French Revolution calendar, which began in November, 1793, and perished in 1805. Everything was supposed to be done by the decimal system. There were 12 months of 30 days each, and five or six fete days at the end of the year, to balance things up.

The Gregorian Calendar

But though Jehovah's people ignore all of the foregoing, they cannot quite, in the immediate present, ignore the Gregorian or papal calendar inaugurated in October, 1582, at which time ten days were dropped from the Julian calendar, the fifteenth of that month hooking up next to the fourth. It was not until 1752 that England adopted the Gregorian calendar.

In this series of articles it will be shown that all the foregoing calendars are calendars of the Devil. If that is shown to be true regarding the Gregorian, it will certainly be true of all the others. Please, now, take the time to examine some of the necessary details of this intricate subject.

Jehovah God is nowhere mentioned in the Gregorian calendar. It would suit Satan well to have Him lost sight of altogether. Christ is mentioned, but the year 1935 is not the year of our Lord at all, for He was born in 2 B.C. and died in A.D. 33.

In these articles the Gregorian calendar is supplanted and discarded by the unique expedient of extending it into the past, as if it had always been in operation, using it to establish historical points in terms that will be understood by those now living, and then letting it die an ignominious death.

The present pope is not sure, even, as to in what year Christ died. One of his alleged reasons for extending the "Holy Year" to 1934 was that, so he said, he was not sure whether Christ MARCH 13, 1935

died in A.D. 33 or in A.D. 34. Of course, the real reason why he was making both ends of the year "holy" was that thus he could get collections at both ends.

The Gregorian calendar was the work of a council of theologians, professedly the successors of the apostles, but eager to hide the apostles from sight except as they might wish to shine in their reflected glory. One can see this in what the council did, and in what they failed to do.

Gregorian Calendar and Apostles

Let it be supposed that the Gregorian council had really desired to honor the apostles whose successors they claim to be. What a fine chance they had! For instance, they could have changed January to James, in honor of the man to whom the Scriptures refer as the Lord's brother. But they preferred to have millions of people everlastingly writing down a name in honor of Janus, the original Roman "father". Janus was two-faced. His successors have been like their "father". He was worshiped as the god of gods, supreme janitor of heaven and earth. The word "janitor" takes its derivation from the word "Janus". A writer who made a study of this subject says: "But here is the important fact that, till the pope was invested with the title, which for a thousand years had had attached to it the power of the keys of Janus and Cybele, no such claims to pre-eminence, or anything approaching to it, was ever publicly made on his part, on the ground of his being the possessor of the keys bestowed on Peter." In other words, he was Jupiter, the Devil, and naturally those who claim to rule heaven, earth and hell, and who love the name "father", did not wish to part with anything that so well upheld their claims.

The theologians had a second opportunity with regard to the second month. On or about what is now February 15 the ancient pagan Romans had heathen priests, called the priests of Faunus, who clad themselves in goatskins, and made a circuit of the Palatine Hill, striking with goatskin thongs all women encountered. The ostensible object was to insure fertility and easy delivery; the real object was to enable the grafting priests to keep their hold on the superstitious people. This ceremony was supposed to "februare", or purify, the women. One can readily understand why the Roman Catholic theologians wanted to retain this connection with heathenism.

In connection with the "februation" of the women the priests held a festival, the Lupercalia, in honor of Lupercus, the god of fertility. There is a brief account of a similar "festival" in Numbers 25:1, 2: "And Israel abode in Shittim, and the people began to commit whoredom with the daughters of Moab. And they called the people unto the sacrifices of their gods: and the people did eat, and bowed down to their gods."

These alleged successors of the apostles who made the Gregorian calendar could have named the second month Boanerges, in memory of James the brother of John, the one who had the honor of being the first martyr among the Lord's chosen twelve, but they preferred the old pagan name.

The Old Roman Year

The old Roman year began with March, and its first month in the year was named Martius, after Mars, the god of war. The war priests of ancient Rome were the Salii, or leapers. Their job (contrasted with their present successors) was not so much the encouragement of the production of more Roman soldiers, but to see to it that Mars was well bribed by their leapings and other gymnastics. Their chief ceremony was on March 19.

The Gregorian ecclesiastics had another good opportunity here. They might have named this month after Peter, for whom they profess to have so much attachment. But as between following the advice of Peter to "seek peace, and ensue it" (1 Peter 3:11) his alleged successors have done all possible to keep the world in wars and turmoils throughout their entire history, and tomorrow, if another world war were to start, the Roman Catholic theologians would be the very first to climb on the band wagon, for their full share of chaplaincies or whatever other graft was to be had, in every country involved. And the Protestant clergy would be scarcely one whit behind. And so one can see why the Gregorians desired to retain the martial spirit, martial law and martial music of Mars rather than to have a month named after the humble fisherman who, in his writings, counseled peace at least five times.

The second month of the old Roman year of ten months was Aprilis, from a word meaning 'to open', and probably signifying that this was the month in which the buds open. There is no objection to this, surely, but, as this was the month in which the Savior died, what a chance there was here to commemorate that event upon which all human life depends. The month could have been called Christ, and it would have been an annual reminder of man's debt that can never be repaid.

But the theologians preferred the old name, with which, no doubt, some god or goddess was in some way involved. Incidentally, as will later be shown in this series of articles, there is ground for the tradition that Christ was nailed to the tree on April 1, and that the so-called "April fool" prauks on that day are intended by the Devil to bring ridicule on the One who counted not His life dear unto Himself, but gave it all up in the doing of Jehovah's will and in the vindication of His name. May God help all of Jehovah's people to be like their Master, and "fools" for His sake.—1 Corinthians 4:10.

The Month of Maius

The month of Maius in the old Roman calendar, the present May, refers to Master Jupiter, the great father god, who had more wives than Henry VIII. It would have been a rather nice thing for the theologians who pretended to think so much of the apostles if they had called this month Matthew. But it was Matthew, in the 23d chapter, that specially drew attention to the Lord's warning: "Call no man your father upon the earth: for one is your Father, which is in heaven. Neither be ye called [Master]: for one is your Master, even Christ." (Verses 9 and 10) And the theologians knew better than to draw the attention of the people to the word of God which exposes their paternalistic method of gaining control of the men through control of the women.

Juno, so the encyclopedia discloses, was "the most exalted divinity of the Latin races in Italy next to Jupiter, of whom she was the sister and wife. She was the queen of heaven and under the name of Regina (queen) was worshiped in Italy at an early period". It would have been nice for the Gregorian theologians to name the sixth month after John, the one whom the Lord especially loved, but that would have been a hard blow at mariolatry; and so the Gregorian ecclesiastics, who are so strong for the pagan queen-of-heaven idea, preferred to let the name June stand as it is. In the old Roman calendar the fifth month was named Quintilis, which merely meant that it was the fifth month of their year. When Julius Caesar reconstructed the calendar, making the year one of twelve months instead of ten, one of the new months was named after himself, and Quintilis became July. Here again the theologians had a fine opportunity to choose between a great warrior and the humble and faithful Jude, whose short epistle contains so much; and so, because they more admired military conquerors than a humble messenger of peace, they chose to retain the name of the warrior, born in that month.

The Month of August

It was Mark Antony, the politician, that fixed it up to have the seventh month of the year named after Julius Caesar, but Julius' successor Augustus was less modest. He changed the name Sextilis, sixth month, to August, and the Roman senate, to gratify his vanity, took one day away from February and added it to the month thus named. That is why February is so short.

Theologians love everything that exalts men; and so when the question came up, if it ever did come up, of naming the eighth month after the apostle Andrew, the suggestion was voted down 100 percent in favor of retaining the name of the publicity-seeker who started world-wide taxation.

September, seventh old Roman month, could have nicely been named after Philip, but it was not. October, eighth old Roman month. could have been named after Thomas, but it was not. November could have been named after Nathanael (Bartholomew), but it was not; and December could have been named after Simon (Zelotes), but it was not. The theologians did not want any of the months named after the real apostles. They preferred that the old paganisms which constitute their sole stock in trade should be perpetuated, as long as possible. Certainly, on no account do they wish the people to have the Scriptures, or even to be reminded of them, except in so far as they can twist these to seem to sustain their pretensions.

The Days and the Hours

The Devil, of course, was the one who induced the ancestors of the present generation to name all the days of the week after heathen gods and goddesses. Neither God nor Christ, nor any MARCH 13, 1935

prophet or apostle, is represented in the days of the week as now in common use. Sunday is named after the sun god; Monday, after the moon god; Tuesday, after Zeus, or Tyr; Wednesday, after the god Woden; Thursday, after Thor, the god of thunder; Friday, after Frigg, or Friga, Woden's wife; and Saturday, after Saturn. The theologians could have changed all this if they had wished to do so, but they did not.

God made the day to begin at sundown, and so the Devil has changed that in almost every place, but not quite. In most countries the beautiful robe of starlit night is rent in twain and the day begins at midnight, which practice was handed down from the Egyptians and Romans. The Babylonians began the day at sunrise. Astronomers make it begin at noon, and number the hours from 1 to 24 consecutively. This system is followed in some parts of Italy. In all of these matters the theologians have gone along with every scheme to dishonor the Maker of the stars and to stray farther and farther from the Word of God. They have seemed to instinctively realize that their protection consists in keeping as close as possible to the Devil and the Devil's way of doing things.

Latest Ecclesiastical Muddling

Under the leadership of Doctor Cadman, expresident of the Federal Council of [Protestant] Churches in America, a still further mix-up in respect to calendars is in sight. Following a big get-together council of all the most pompous Protestant theologians, at Fanoe, Denmark, in 1934, the proposition was launched to make every year one of 364 days, adding the 365th day as an "extra" Saturday, coming always between December 30 and January 1; then when the year would have 366 days the "extra" day would be inserted as an "extra" Saturday between June and July. By this plan, in which the Scriptural arrangement of the days into weeks would be entirely ignored, there would be four quarters of the year identical in length, each containing three months of 31, 30 and 30 days, and, if one is foolish enough to believe it, "any given date will fall on the same day of the week."

It is thus seen that the Devil and the children of the Devil are greatly interested in having everything different from the way God arranged it, not only as respects the years and the months, but as respects the weeks, the days, and even the hours, and the reason for it is clear. The Devil is determined to leave no stone unturned to dishonor God, and he also well knows that as one error leads to another so one truth also leads to another, and is in terror lest great truths long covered should be brought to light.

And so, with this preliminary examination, please turn to make a *study* of the various items that enter into the making of calendars, a Scriptural as well as a scientific study, to which is invited the closest scrutiny of astronomers, mathematicians and others, as well as Jehovah's people. Should any errors be discovered in statements of fact or in calculations, be so good as to transmit them to *The Golden Age* as promptly as possible. In this material, high-school and college teachers have abundant opportunities to put the skill of their pupils to the test and at the same time exalt the name of Jehovah, the true and living God.

The methods that will be pursued will be entirely different from any ever before used. The place to begin is with the year.

A Consideration of the Year

According to Genesis 1:14 God made both the sun and the moon to be "for signs, and for seasons, and for days, and years". The thought that the signs here mentioned have anything to do with the signs of the zodiac is all nonsense, demonism. The word "signs" signifies "ensigns", as if here is some standard that needs the attention which will now be given to it.

The seasons recognized in the Scriptures are but two, the summer and the winter, which seasons will continue forever. "While the earth remaineth, seedtime and harvest, and cold and heat, and summer and winter, and day and night, shall not cease."—Genesis 8:22.

Jehovah's people are familiar with the instructions to Israel to "keep the passover at his appointed season" (Numbers 9:2), and know why Jehovah spoke of it as "the season that thou camest forth out of Egypt". (Deuteronomy 16:6) They know that the Lord, in the parable of the vineyard, spoke of "fruits in their seasons" (Matthew 21:41), that the apostle also mentioned "fruitful seasons" (Acts 14:17); the prophecy of Zechariah (14:8) speaks of summer and winter as ever continuing; and there are other references to the seasons in the Scriptures, and yet the clergy have never recognized in any way these grand divisions of time in any of their calendars. One would have thought

that they would at least have named one month after the opening of the vernal season or one after the opening of the autumnal season, but the clergy have no zeal for the honoring of anything with which Jehovah God has had anything to do. They are interested only in the things that bring dishonor to Him and do bring honor to men and to their master, the Devil, whose they are and whom they serve. On the other hand it seems that the attention of the *true* people of God has been directed to the vernal equinox for centuries, and there must be some reason for it. To this day, Jehovah's people, striving for truth and obedience, seek the beginning of Nisan (the name is of heathen origin), the month in which Jesus died, and locate it with the new

When Do the Seasons Begin?

moon nearest to the said equinox.

For various reasons it is desirable that the new year should have a fixed point at which to begin, and to end; and what better point than that made by Jehovah himself in the heavens, when the days and nights are of equal length at every point on the globe? It is the time of life, a time when all should specially turn their minds and hearts to the great Creator who provided such a convenient day for the settlement of accounts that are in the past and for the opening of new vistas for the future. "Thou crownest the year with thy goodness."—Psalm 65:11.

Years ago many of those who are now Jehovah's witnesses had the belief that the true time of the year's beginning is in the fall, yet, whatever may have been the reason, in the two texts where the two seasons are mentioned together the summer is mentioned first.—See Genesis 8: 22; Zechariah 14: 8.

All intelligent persons know that on the equator the days and nights are always of equal length. They also know that twice a year the sun apparently shifts its position with respect to the earth, and in March and September there are what are called equinoxes; that is, the days and nights are of equal length in every place on the earth. The human family was first implanted in the Northern Hemisphere; there the Scriptures were written; there the Lord died. Hence the Scriptures tacitly recognize the fact.

Additionally, the Northern Hemisphere contains most of the land surface.

The summer season (which men, but not the

Scriptures, divide into two parts, one of which is named "spring") begins in March (in the Northern Hemisphere) and contains the growing and harvesting seasons of that part of the world, wherein most of the land surface of the earth is found. The cold seasons are inaugurated by the autumnal equinoxes.

The Gregorian calendar does not begin at either equinox, and does not even begin any month with either of them, but it cannot quite ignore these important fixed points in terrestrial history, and so one generally finds in an almanac a brief mention of the time when the equinox (usually the vernal) occurs. It is manifest that, in the mind of God, the true year would have its beginning at one of these points. Would it not seem reasonable, since God made the sun to rule the day and the moon to rule the night, that He would have the greater of these two luminaries fix the length of the year and the lesser fix the length of the month?

Jehovah puts the mind at rest on this subject of *His* time for beginning the year. As the Israelites were about to leave Egypt (which, as will be shown subsequently, was about the time of the vernal equinox) He said to Moses: "This month shall be unto you the beginning of months: it shall be the first month of the year to you."— Exodus 12:2.

Much has been said of the observance of socalled Jewish "New Year" at the autumnal equinox, but the Devil has been after the Jews as well as after the Christians. Can anybody show where the Jews or anybody else was ever commanded or authorized to begin a new year at any other time than that fixed by Jehovah God? He cannot. It is quite true that Exodus 34:22speaks of "the feast of ingathering at the year's end" (revolution of the year, margin); but the reference is manifestly to the crop year, which does indeed end in the fall, as is well known to everybody. Exodus 12:2 is the *law* on this subject.

The foregoing text, therefore, ought to be sufficient proof that the true time of the beginning of the year is with the vernal equinox; but there is more. Nine months from the autumnal equinox would be on or about June 23, at which time in Palestine it is exceedingly warm. Nine months from the vernal equinox is about December 22. Here read Jeremiah 36:22: "Now the king sat in the winter house, in the ninth month; and there was a fire on the hearth burning before him." What time that year started ought to be plain to all.

On Solomon's Porch-in Winter

When Jesus was here on earth His every word and act was designed to be an honor to His Father's name. He was able to say, "I do always those things that please him." (John 8:29) The Father himself said: "Thou art my beloved Son; in thee I am well pleased."—Luke 3:22.

As a result of this close relationship, one may study with minute care every detail of what Jesus said and did and always find in it something that the Father is telling His people by that means. There is this item: "And it was at Jerusalem the feast of the dedication, and it was winter. And Jesus walked in the temple in Solomon's porch."—John 10:22, 23.

Theologians have endeavored to explain this text, aiming to show that Jesus was trying in some way to participate in a feast of dedication not mentioned in the Scriptures, and in so doing they have missed the point.

In this passage the heavenly Father seems to be gently hinting to the reader that there is a point in connection with Solomon's temple that needs to be considered; it is the time of its dedication. And if one looks the matter up he finds that it was dedicated "in the month Ethanim" (the name itself is of heathen origin), "which is the seventh month" (1 Kings 8: 2), and the "feast of dedication", identified with the seven-day dedication of the altar, was on the 8th to the 14th of that month. (2 Chronicles 7:9,10) The seventh month was the first month of the winter season. Additionally, it is well known that the day of atonement and the feast of tabernacles, which occurred in the seventh month, were observed when the Israelites had gathered in the fruits of the land and were entering the winter season. (Leviticus 23: 27, 39) It is thus established by the mouth of four witnesses that the true beginning of the year is at the vernal equinox.

The Length of the Year

The length of the year, from vernal equinox to vernal equinox, is not an exact number of days.

Beginning with the vernal equinox of the year 1886 (A.D.), the times between the vernal equinoxes for the next succeeding fifty years, down to 1936 inclusive, are, in their order, 365 days 5 hours and the number of minutes which follow: 46, 45, 48, 54, 44, 05, 46, 48, 60, 27, 45, 48, 50, 13, 57, 81, 41, 52, 66, 60, 00, 60, 60, 60, 60, 21, 49, 53, 40, 56, 51, 48, 61, 40, 52, 58, 40, 51, 53, 49, 57, 46, 50, 55, 37, 47, 49, 45, 54, 40. This information was gleaned from reference works in the New York Public Library. The general average for this particular period is 365 days 5 hours 46 minutes 45.6 seconds.

The length of the year is influenced by conditions in the earth itself, near the equator, by the approach and recession of other planets, and by the precession of the equinoxes. In the accompanying diagram (page 363), in the righthand lower corner is shown in graphic form how the influences that make one year shorter than another are overcome in succeeding years. The small differences are not cumulative; the total divergences of less than an hour from the mean would not be greater six thousand years ago, which means that one can tell accurately the time of the vernal equinox in any year from creation to date. Moreover, its day in the week can be ascertained, which is something quite new in the field of human interest, a path never before trodden.

Extending the Gregorian Calendar

Taking note of the fact that there are 60 seconds in a minute, 60 minutes in an hour, and 24 hours in a day, it follows that in one of God's years, a so-called solar year, or tropical year, or synodical year, that is, from one vernal equinox to another, there are 31,556,926.15 seconds; in a calendar year of 365 days the number of seconds is 31,536,000; so God's year is longer than man's year by 20,926.15 seconds.

In the Gregorian calendar arrangement man puts in an extra day once in four years; so in that time he has 1,461 days. In four of God's years there are 126,227,704.6 seconds. In 1,461 calendar days there are 126,230,400 seconds; so at the end of the four years man has borrowed 2,695.4 seconds from the future, to make up for his extra inserted day.

After twenty-four leap-year periods of four years each, man has borrowed nearly a day. Accordingly, when the end of the century is reached, the leap year is usually omitted. The normal century of man, therefore, has in it 24 leap years and 76 years that are not leap years. The total of days in such century is 36,524 days, amounting to 3,155,673,600 seconds. In one hundred of God's years He has 3,155,692,615 seconds. At the end of a normal century, man has not used in his calendar all the time that has been made for his use, by 19,015 seconds.

After four centuries, or rather, every fourth century, man finds it necessary to put in an extra leap year. These years, called quadricentesimal years, go in at the end of such centuries as are divisible by 400. The next one would be in the year A.D. 2000, but it will not be needed. The Lord has a much better way.

In four of man's centuries he has 146,097 days: 97 leap days and 146,000 ordinary days. In seconds this amounts to 12,622,780,800. In 400 of God's years there are 12,622,770,460 seconds; so at the end of each quadricentesimal period of 400 years the man has again borrowed from the future a total of 10,340 seconds.

Another shift is necessary after eight quadricentesimal periods. In that time man will have borrowed for his calendar 82,720 seconds that did not belong to him. This is almost a day (there are 86,400 seconds in a day); accordingly at this point no quadricentesimal leap day occurs. The net difference, then, in 3,200 years amounts to 3,680 seconds, or 1 hour 1 minute 20 seconds. A further correction would be necessary after 23 such 3,200-year periods; and so on indefinitely.

Projecting the Calendar Backward

If the Gregorian calendar can be projected forward it can also be projected backward; and this has been done in the accompanying illustration. The outline at the top (page 363) shows in a general way the time of vernal equinox of every year from creation to date. Each century is in a little diamond-shaped section by itself, except where the quadricentesimal leap days occur, when two sections are merged in one. The latest date in each century when the equinox could occur is named, and the earliest one. A little careful study of the enlarged diagrams beneath the outline will show how to make use of the outline. The quadricentesimal leap years are fourteen in number; that is, 4000, 3600, 3200, 2800, 2400, 2000, 1600, 800, 400, and 1,B.C., and A.D. 400, 800, 1200 and 1600. The year 1200 B.C. is not a leap year, for the reason that it is one of the correction places in the whole general scheme, as has already been fully explained.

In using the Gregorian calendar between centuries removed from each other, it is neces-

sary when finding how far apart any two equinoxes are, if one is in a century B.C. and one is in an A.D. century, to make the total one year less than that indicated by adding the years together. In computing time from a B.C. date to an A.D. date the portion of the year that has elapsed must be taken into consideration. That the exact number of years is not to be had by simply adding B.C. and A.D. dates together, as some long supposed, can be immediately demonstrated. In the spring of 1 B.C. Christ was 1/2 year of age; He died 33 full years thereafter, but not in the spring of A.D. 32, as would be the case if it were correct to add B.C. and A.D. dates together: the 33 years were not up till the spring of A.D. 33. If B.C. and A.D. dates are added together, the total number of years is one less than the sum thus obtained.

The year 4 B.C. is a leap year, though only three years away from the leap year of 1 B.C. (a quadricentesimal year). This feature is shown in one of the diagrams (C) below the outline.

Calculating the Equinoxes: Problem 1

Reference to the outline at the top of page 363 shows that in the year 1935 A.D. the equinox is on the afternoon of Thursday, March 21.* To be exact, it is at 52 seconds after 3:42 p.m., Jerusalem time, which is the proper time basis to use in all human affairs, for reasons to be explained later. The time of equinox at the 75th meridian west, commonly called Eastern Standard Time, is 8:18 a.m., March 21. This is 7 hours 24 minutes 52 seconds later than Jerusalem time (used henceforth in calculating the equinoxes). Enlarged section of the last years of the nineteenth century and the remaining years to date shows more fully the times of equinoxes at Jerusalem in the past century. See the diagram on opposite page for particulars.

Jehovah's people have heretofore thought they had good evidence to believe that Adam was created in 4128 (or fall of 4129) B.C., and Problem 1 is to ascertain the time of vernal equinox for the year 4128 B.C. Reference to the small outline at top shows it was in the morning of March 21, 4128 B.C.; the enlarged section (A) of the first period after creation shows it was very close to 10:00 a.m. Exactly what time was it?

^{*}Master chart, from which this greatly condensed outline was drawn, is 15 feet 3 inches long; on file at the *Golden Age* office, where it may be seen on application.



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From 4128 B.C. to A.D. 1935 is not 6,063 (4128+1935) years, but 6,062 (4128+1935-1) years. The number of seconds in 6,062 solar years, God's years, is 191,298,086,321.3; in 2,214,098 days, the total number of seconds is 191,298,-067,200.0. The difference is 19,121.3 seconds, which is 5 hours 18 minutes 41.3 seconds; to be figured back from (before) 3 hours 42 minutes 52 seconds (3:42:52) p.m., the hour of equinox on March 21, A.D. 1935. The answer is that the equinox on March 21, 4128 B.C., was at 10.7 seconds after 10:24 a.m. Now, what day of the week was it?

The 2,214,098 days from March 21, 4128 B.C., to March 21, A.D. 1935, are found as follows:

(a) Each of the 6,062 years
had at least 365 days $6062 \times 365 = 2,212,630$
(b) The 60 centuries had at
least 24 leap days each $60 \times 24 = 1,440$
(c) 14 quadricentesimal years
had each a leap day $14 \times 1 = 14$
(d) 8 leap days in the 20th
century , , $8 \times 1 = 8$
(e) 6 leap days in the period
before 4100 B.C. \ldots $6 \times 1 = 6$
Total number of days $\ldots \ldots \ldots 2,214,098$

Leap day for the year 4128 B.C. would not be counted, as the vernal equinox is not as far back in the year as the point at which the leap day occurs.

Another method of arriving at the same result is to take the number of leap years (1468) and multiply by 366; and then, deducting the number of leap years from the total of 6062 (6062—1468—4594), multiply the result by 365, as follows:

1,468 leap years;	$1468 \times 366 =$	537,288
4,594 common years;	$4594 \times 365 =$	1,676,810
Total number of day	s	$\overline{2,214,098}$

In 2,214,098 days there are 316,299 weeks and 5 days. In the year 1935 the 21st of March falls on Thursday. In 4128 B.C. the 21st of March fell five days earlier in the week, which day is Saturday. Therefore, the vernal equinox of 4128 B.C. fell on Saturday, at 10:24:10.7 a.m.

The Result of Some Calculations

Using exactly the same method as above, but without going over all the operations, the next step in order is to give a considerable list of vernal equinox dates, in the past and the present. After A.D. 1886 there is given a plus or minus number of minutes by which the actual time of equinox varied from the mean which the astronomers have provided.

\mathbf{P} roblem

No.

1	B.C.	4128	Sat.	10:24 a.m.	and	10.7	sec.,	Mar.	21
2	66	4028	Thu.	3:41 p.m.	" "	5.7	"	"	21
3	"	2472	Fri.	12:25 p.m.	"	55.1	"	" "	21
4	"	2372	Wed.	5:41 p.m.	"	50.1	"	"	20
5	" "	2045	"	10:30 p.m.	"	21.15	" "	"	21
6	" "	1945	Tue.	3:48 a.m.	"	56.15	" "	"	21
$\overline{7}$	"	1920	Fri.	5:08 a.m.	"	9.9	" "	" "	20
8	"	1615	Sat.	2:01 a.m.	"	5.65	"	"	21
9	"	1575	" "	6:31 p.m.	"	51.65	"	"	20
10	" "	1515	Thu.	7:08 a.m.	"	.65	"	" "	21
11	66	1475	" "	11:58 p.m.	"	46.65	"	"	21
12	"	1469	Fri.	3:39 p.m.	" "	51.12	" "	"	21
13	"	1035	"	1:27 p.m.	"	12.65	" "	"	21
14	" "	1028	Sun.	6:08 a.m.	""	35.7	"	"	21
15	"	\$98	Tue.	12:31 p.m.	"	40.2	"	" "	22
16	"	745	Mon.	7:10 p.m.	"	16.15	"	"	21
17	"	641	Thu.	11:42 p.m.	"	15.75	"	" "	21
18	11	607	Fri.	5 : 20 a.m.	"	24.85	" "	٤ ۵	21
19	"	537	Mon.	4:14 a.m.	"	15.35	"	"	22
20	" "	468	Tue.	9:21 p.m.	"	no	"	" "	21
21	" "	455	Thu.	12:53 a.m.	"	19.65	" "	"	21
22	" "	3	Sat.	12:16 p.m.	"	59.45	""	66	21
23	A.D.	12	Tue.	9:39 p.m.	"	45.55	"	"	20
24	"	33	Sun.	11:53 p.m.	"	54.7	"	"	21
25	"	1879	Fri.	2:11 a.m.	"	47.6	"	"	21
26	" "	1884	Thu.	7:15 a.m.	"	38.35	" "	"	20
27	٤،	1914	Sat.	1:38 p.m.	"	42.85	" "	"	21
						$(\min$	us 1	4 mir	ı.)
28	"	1918	Thu.	12:53 p.m.	"	47.45	sec.,	Mar.	21
						$(\min$	us 1	1 mir	1.)
29	"	1922	Tue.	12:08 p.m.	"	52.05	sec.,	Mar.	21
						(1	lus !	$2 \min$	1.)
30	"	1926	Sun.	11 : 23 a.m.	"	56.65	sec.,	Mar.	21
						(mi	nus :	1 mir	ı.)
31	"	1931	Sat.	4:27 p.m.	"	47.4	sec.,	Mar.	21
32	"	1932	Sun.	10:16 p.m.	" "	33.55	sec., i	Mar.	20
						(r	lus '	1 min	i.)

Notes on the Above Problems:

Problems Nos. 2, 3, 6, 8, 12, 13, 14, 16, 18, 22, present the same features as Problem No. 1, and are solved by taking similar steps.

Problems 25, 27, 28, 29, 30, are similar to Problem 1, but, being wholly within the A.D. period, the years that intervene are ascertained by subtracting the year in question from the year 1935. All other steps are the same as for No. 1.

Problems 5, 16, 17, 20, 21, 31, are similar to Problem 1, but fractions are large and must be watched; in each of these instances there are sufficient hours in the fractional days to make them count as complete days. MARCH 13, 1935

Problems 4, 7, 9, 10, 11, 23, 24, 26, 32, show the vernal equinox for the desired year falls on March 20. By this trick of the calendar one full day is lost, and must be accounted for in the answer. This is clearly seen in Problem 26. The 18,627 days involved are 2,661 weeks (fractions in the problem being too small to affect the answer). March 20, 1935 A.D., is on Wednesday. One might infer from this that the equinoctial date of March 20 in the year 1884 A.D. (which is an even number of weeks away from the equinoctial date of 1935 A.D.) would also be on a Wednesday, but it is on a Thursday (the same as in 1935). (See diagram [B] page 363.)

Problems 15, 19, show the vernal equinox for the desired year falls on March 22, instead of the 21st. By this trick of the calendar one full day is borrowed, and must be accounted for in the answer. These two problems, like those in the paragraph last above, require close reasoning.

To aid students of these problems there is published, on pages 368, 369, a calendar from creation to date, occupying two full pages of *The Golden Age*, and greatly simplifying the arriving at correct dates in the remote past, both as to the days of the month and as to the days of the week.

Date of Autumnal Equinox 4129 B.C.

Inasmuch as some have held that Adam was created in the fall of 4129 B.C., at a date convenient to the autumnal equinox, the date of that equinox is fixed by the following accurate and convenient method:

Autumnal equinox, 1934 A.D., Jerusalem time, was September 23, 8:11 p.m. Vernal equinox, 1935 A.D., is, Jerusalem time, March 21, 3:43 p.m. Therefore the length of time from the autumnal equinox of 1934 to the vernal equinox of 1935 is 178 days 19 hours 32 minutes. The year 4128 B.C. was a leap year; therefore 178 days 19 hours 32 minutes back from the time of the vernal equinox of 4128 B.C. brings us to September 24, 4129 B.C., at 10.7 seconds after 2:52 p.m. as the time of the autumnal equinox of that year.

Following are the vernal and autumnal equinoxes, Jerusalem time, for the years stated: Vernal Autumnal 1923, March 21, 5:54 p.m. September 24, 4:29 a.m. 1924, '' 20, 11:45 '' '' 23, 10:24 '' 1925, '' 21, 5:38 a.m. '' 23, 4:09 p.m.

21, 11:27 "

21, 5:24 p.m.

"

66

23, 9:52 "

3:42 a.m.

24,

66

66

1926,

1927,

1928,	March	20,	11:10 p.m	. September	23,	9:31 a.m.
1929,	" "	21,	5:00 a.m.	- 66	23,	3:18 p.m.
1930,	66	21,	10:55 "	66	23,	9:02 ''
1931,	66	21,	4:32 p.m	é 6 j	24,	2:49 a.m.
1932,	"	20,	10:19 "	66	23,	8:41 ''
1933,	66	21,	4:08 a.m.	66]	23,	2:26 p.m.
1934,	<i></i>	21,	9:53 ''	6 B)	23,	8:11 ''

Average date, vernal: March 21, 7:41:32 a.m.

Average date, autumnal: September 23, 6:18:50 p.m. Average time, vernal equinox forward to autumnal equinox, 186 d. 10 h. 36 m. 18 sec.

Average time, autumnal equinox forward to vernal equinox, including the three leap days, in the 12 years, 178 d. 19 h. 23 m. 42 sec.

As some will be interested at this point to consider them, two small items are now slightly anticipated in the following summary:

New moon rose Sunday, September 22, 4129 B.C., at 8:23:27.504592 a.m.

Autumnal equinox was 541/2 hours later, Tuesday, September 24, 4129 B.C., at 2:52 p.m.

New moon rose Tuesday, March 17, 4128 B.C., at 12:47:44.694448 p.m.

Vernal equinox was 94 hours later, Saturday, March 21, 4128 B.C., at 10: 24: 10.7 a.m.

Do any of Jehovah's witnesses, or any of the Jonadabs (comrades of Jehovah's witnesses; see Vindication, Book Three), see anything in the placement of these moons with respect to the equinoxes, or anything in the days of the week on which they occurred, to specially indicate the hand of God, as one might reasonably expect it to be manifested at such an interesting time in earth's affairs? No such pleasing evidence appears. More on this point later, in its proper place, when careful consideration will be given to the details of the calendar of Jehovah God; which calendar, it is hoped and believed, will permanently replace, as far as calendars are concerned, the efforts of Satan to hide some of God's beautiful truth, now, since 1918, coming out from His temple in such a refreshing stream.

God's Love of the Beautiful

In the summertime, in Pike county, Pennsylvania, in a region where one may see a score or more of wild deer in a single day, deep down in the heart of the forest, a mile or more from the highway, lives all alone a little old lady who loves the truth. She got it by listening to Watchtower programs over the radio station WBBR, of New York city. When this little old lady was found she went into ecstasies over the messages she had heard. Explaining her environment, and that she could live with her children in New York city and in Philadelphia, if she chose, she said, "I prefer to live here, like a gypsy, in the midst of God's bouquets." The frost had just touched the leaves of the forest, tinting them with colors that beggar description.

How much more God loves beauty! And how much the most beautiful things of His creation are all a little different from one another! When men try to make things beautiful they try to make them all alike.

No two flowers in a flower garden were ever exactly alike; no two roses on a rose bush, no two petals on a rose. A million new-born infants can be fingerprinted, or a billion of them, or ten billion, for that matter, and no two sets of fingerprints will be the same. And thus one comes to a consideration of God's beautiful months, His lovely, exquisite months, that the more they are studied, the more they are to be admired, because, while all substantially alike, they are all slightly different.

A Study of God's Months

The word "month" comes from the word "moon"; God's months were all arranged for before man appeared on the earth. It is man's proper place to inquire humbly at God's feet respecting the work of His hands; it is not man's right to discard things which God has made for His government, nor to substitute others in their place.

"And God said, Let there be lights in the firmament of the heaven, to divide the day from the night; and let them be for signs, and for seasons, and for days, and years: and let them be for lights in the firmament of the heaven, to give light upon the earth: and it was so. And God made two great lights; the greater light to rule the day, and the lesser light to rule the night: he made the stars also. And God set them in the firmament of the heaven, to give light upon the earth, and to rule over the day and over the night, and to divide the light from the darkness: and God saw that it was good." (Genesis 1:14-18) Herein is the first reference to the moon in the Scriptures.

Even though the moon had not been mentioned at all in God's Word, man would be compelled to take note of it; it is too conspicuous in the heavens to be ignored; and too beautiful; and too useful.

Satan has endeavored to get men to hold God's month and its instrument the moon in little esteem; hence the terms "lunacy", "lunatic," "moon-struck," and terms of similar import. The apostle does indeed say, "Let no man therefore judge you in meat, or in drink, or in respect of an holy day, or of [feasts celebrating] the new moon, or of the sabbath days; which are a shadow of things to come; but the body is of Christ." (Colossians 2:16, 17) But this is far from urging men to set aside the plain statement of God's Word that God "appointed the moon for seasons" (Psalm 104:19), monthly seasons being manifestly what is here meant.

"A Faithful Witness in Heaven"

It is true that the prophet Isaiah brings the message to an idolatrous and rebellious people, "Your new moons and your appointed feasts my soul hateth" (Isaiah 1:14), but that does not change the fact that the prophet Ezekiel writes of the future offerings of "the prince" which are to take place "in the new moons". See Vindication, Book Three, pages 287, 293, 295, for comments and explanations on references to the new moons in Ezekiel 45: 17; 46: 1, 3, 6. These may not be ignored or set aside.

Though Isaiah mentions in the first chapter God's disgust with Israel's hypocritical observances of the new moons, he says in the next to the last verse of his prophecy: "And it shall come to pass, that from one new moon to another, and from one sabbath to another, shall all flesh come to worship before me, saith [Jehovah]." (Isaiah 66:23) Of course, that is after the oncoming battle of Armageddon has done its work of destroying Satan's organization, and the earth has been cleansed of all its defilements.

When the psalmist said, "When I consider ... the moon" (Psalm 8:3), he meant that he really did consider it. Especially significant is his statement of David's seed, that "it shall be established for ever as the moon, and as a faithful witness in heaven". (Psalm 89:37) The moon is, indeed, a faithful witness in heaven, a witness whose testimony cannot be gainsaid.

It is the voice of God, speaking through Moses, that mentions the "precious things thrust forth by the moons". (Deuteronomy 33:14, *margin*) What some of those precious things are it is now the privilege of Jehovah's wit-

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nesses and their companions in the chariot of Jehovah's organization to see and understand. Indeed, it is even possible that there may be some direct reference to these present unfoldings of truth that God had in mind when He said of this day that "the light of the moon shall be as the light of the sun".—Isaiah 30:26.

Anyway, it was infinitely wise of God to set a second hand in His timepiece, and to put it out there in the sky 239,000 miles away, far enough away that the theologians could not get at it to interfere with it, which they would surely have done if they had been able to so do. Now it is about to put them all to shame.

Calendar for 6,062 Years

This issue contains, on pages 363, 369, all the essentials of a calendar covering all past human history. All know that in the normal year there are 52 weeks and 1 day and that therefore in the next succeeding year, unless it is a leap year, the days of each month are one day later in the week. Thus, in the year 1933 A.D. the 22d day of March came on Wednesday; in the year 1934 A.D. the 22d day of March came on Thursday, while in the year 1935 A.D. the 22d day of March comes on Friday. In the year 1936, on account of that year's being a leap year, the 22d day of March will come on Sunday.

The use of the calendar is very simple. Every year is represented. If a given day of the month falls on *Friday* in the year 1935, the day of the week on which that same day of the month will fall in other years is shown at the head of the column above the year desired. Persons using the calendar must consider, in the case of leap years, that dates in January and February must be separately calculated after some other date is known. The calendar will be found very useful and valuable when the manner of using it has been mastered. It is assumed that the user has an ordinary calendar and can readily locate a *Friday* in 1935 or a Thursday in 1934, from which information any other desired data regarding past days of the week may be at once obtained. This is the first time the Gregorian calendar, or any other, has ever been projected back to creation.

Besides the calendar for 6,062 years there is also presented a table of "Lunations Ushering in the Years or Periods Which Contained the Most Important Events in History". Let the table speak for itself. There will be frequent

reference to it in the explanations of the Calendar of Jehovah God which follow.

God's Will Regarding Months

The years of God are not each of an equal number of months, nor of an equal number of weeks, nor of an equal number of days, nor of an equal number of hours, nor of an equal number of minutes, nor of an equal number of seconds. Man has no right to ignore these years of God. It is his duty to number them, and to mark them well as they go, and to use them to God's praise, but not to endeavor to force them to begin or end at some point in no way indicated in the divine Word of the Creator.

The months of God are not of a fixed number in the years of God, nor within themselves are they composed each of an equal number of weeks, nor of an equal number of days, nor of an equal number of hours, nor of an equal number of minutes, nor of an equal number of seconds. Man has no right to ignore these months of God. It is his duty to number them, and to mark them well as they go, and to use them to God's praise, but not to endeavor to force them to begin where the years begin or to end where the years end.

Is it necessary to start a new year on July 4, or Thanksgiving Day, or Christmas, or Washington's Birthday, or Lincoln's Birthday? Not at all. Each of Jehovah's years properly begins at a certain point, and, reasonably enough, at the beginning of a specific day, as in the case of the months, but neither the years nor the months nor the weeks need to be in accord exactly, nor are they in accord except by man's egotistic and destructive acts.

The days in the months of God are never less than 29; and they are never more than thirty. There is a sure and proper method of determining how many days the month should have. Jehovah God fixed the method. He so arranged and ordered all the details connected with the sacrifice of His own dear Son that that event, of first importance in history, occurred at Jerusalem on the fourteenth day of the month, when the moon was at its full. The fourteenth day of each month, therefore, is that day of the month when the moon is full over Jerusalem. That automatically makes Jerusalem, not Greenwich, the time center of the earth.

The weeks are for man, but they are of God, and no man may change the arrangement which PROJECTION OF THE GREGORIAN CALENDAR BACK TO CREATION

Table Showing that Dates Falling on Sunday in 4128 B.C. will, in 1935 A.D., 6,062 Years Later, Fall on Friday (Leap year columns are in light-faced type)

	Fr Sa Su Mo We Th Fr Sa	a Mo Tu We Th Sa	Su Mo Tu Th Fr Sa Su Tu	Ve Th Fr Su Mo Tu We	Fr Sa Su Mo We Th Fr Sa Mo Tu We Th Sa Su Mo Tu Th Fr Sa Su Tu We Th Fr Su Mo Tu We
4128 B.C 4101 B.C.	24 23 22 21 20 19 18 1	7 16 15 14 13 12	11 10 09 08 07 06 05 04	28 27 26 25 1000 B.C. 03 02 01 901 B.C.	- (1000 B.C. is not a leap year) 96 52 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 98 67 66 55 46 32 94 63 62 61 60 58 57 76 55 54 53 52 51 50 49 47 46 65 44 43 42 41
4100 B.C. 4001 B.C.	(4100 B.C. is not a leap year 84 83 82 81 80 79 78 7 56 55 54 53 52 51 50 4	r) 4100 17 76 75 74 73 72 19 48 47 46 45 44	99 96 97 96 95 94 93 92 71 70 69 68 67 66 65 64 43 42 41 40 39 38 37 36	91 90 89 88 87 86 85 53 62 61 60 59 58 57 55 34 33 32 31 30 29	40 39 38 37 36 15 34 33 02 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01
4028 B.C. 4000 B.C	28 27 26 25 24 23 22 2 (4000 B.C. is a leap year)	21 20 19 18 17 16	15 14 13 12 11 10 09 08	07 06 05 04 03 02 01 900 B.C. 801 B.C.	• (900 B.C. is not a leap year) 00 9-98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 85 67 66 65 84 63 62 61 80 59 58 57 56 55 54 53 52 51 50 49 48 47 45 45
3901 B.G.	4000 95 98 97 96 95 94 9 72 71 70 69 68 67 66 6 44 43 42 41 40 39 38 3	5 64 63 62 61 60 7 36 35 34 33 32	87 86 85 84 83 82 81 80 59 53 57 56 55 51 53 52 31 30 29 28 27 26 25 24	79 78 77 76 75 74 73 51 50 49 48 47 46 45 23 22 21 20 19 18 17	44 43 42 41 40 39 38 37 56 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 69 08 07 06 05 04 03 02 01
3900 B.C	16 15 14 13 12 13 10 0 (3900 B.C is not a leap year	9 08 07 06 05 04	03 02 01	\$00 B.C. 701 B.C.	- (800 B.C. is a (sap ycar)
.2001 D.U.	76 75 74 73 72 71 70 6 48 47 46 45 44 43 42 4	9 68 67 66 65 64 1 40 39 33 37 36	63 62 61 60 19 58 57 56 35 34 33 32 31 30 29 28	55 54 53 52 51 50 49 27 25 25 24 23 22 21 700 P C	32 51 30 29 28 27 26 25 24 23 22 21 20 19 18 17 10 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 (700 16 16 16 16 16 16 16 16 16 16 16 16 16
3800 B.C	20 19 18 17 16 15 14 1 (3800 B.C. is not a leap year	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07 06 05 04 03 02 01 95 94 H 92 91 90 89 88	7 86 85 84 83 82 81 601 B.C.	02 91 90 89 88 67 66 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 13 52 51 50 49 48 47 46 45 44 43 42 V 40 39 38 37
<i>5701</i> B.C.	52 51 50 49 48 47 46 45 24 23 22 21 20 19 16 17	5 44 43 42 41 40 7 16 15 14 13 12	37 36 65 61 65 62 61 60 39 38 37 36 35 34 33 32 11 10 09 08 07 06 05 64	600 B.C.	36 35 34 33 32 31 30 29 28 27 26 25 34 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 6 06 05 04 03 02 01 • (600 B C, is not a lean way) • 00 99 98 97
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3600 B.C	36 55 54 55 52 51 50 42 38 27 26 25 24 23 22 22 (3600 B.C. is a leap year)	1 20 19 18 17 16	45 42 41 40 59 56 57 86 15 14 13 12 11 10 09 08	02 91 91 90 29 07 06 05 04 03 02 01 500 B.C.	40 99 52 62 56 55 54 55 52 51 50 29 28 21 20 25 24 25 22 21 20 15 15 17 16 15 14 15 12 11 10 09 08 07 06 05 04 03 02 01 - (500 B.C. is not a leavy yar)
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3300 B.C 3201 B.C.	(3300 B.C. is not a leap ye: 84 83 82 81 80 79 78 7	ar) 00 7 76 75 74 73 72	99 96 97 96 95 94 93 92 71 70 69 68 67 66 65 64	21 90 89 88 87 86 85 200 B.C. 53 62 61 60 59 58 57 101 B.C.	08 07 06 05 04 03 02 01 - (200 B.C. is not a loap year) 96 55 94 93 02 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69
\$200 P.C.	56 55 54 53 52 51 50 4 28 27 26 25 24 23 22 2 (3200 P C to a loss war)	9 48 47 46 45 44 1 20 19 18 17 16	43 42 41 40 39 38 37 36 15 14 13 12 11 10 09 08	5 34 33 32 31 30 29 7 06 05 04 03 02 01	68 67 66 65 64 63 62 61 60 5) 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 19 10 80 77 66 55 44 63 64 63 60 01
3101 B.C.	00 99 93 97 06 95 94 9 72 71 70 69 68 67 66 6	3 92 91 90 89 88 5 64 63 62 61 60	87 86 85 84 83 82 81 80 59 53 57 56 55 54 53 52	9 78 77 76 75 74 73 100 B.C. 1 50 49 48 47 45 45 4 B.C.	- (1.00 B.C. is not a leap year) 00 9- 93 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73
3700 B C .	44 43 42 41 40 39 33 3 16 15 14 13 12 11 10 0 (3100 B C is not a lean ve	9 08 07 06 05 04	31 30 29 28 27 26 25 24 03 02 01	23 22 21 20 19 15 17	72 71 70 69 68 67 66 65 64 63 62 61 60 59 53 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 33 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 49 68 07 05 05 64
3001 B.C.	00 99 A 9 76 75 74 73 72 71 70 6	7 96 95 94 93 92 9 68 67 66 65 64	91 90 89 88 87 86 85 84 63 62 61 60 19 58 57 56	3 82 81 80 79 78 77 3 8.0 5 54 53 52 51 50 49 A.D. 90	3 2 1.00 3 4 5 6 7 8 9 10 11 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 H 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
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2900 B.C 2801 B.C.	(2900 B.C. is not a leap year 84 83 82 81 80 79 78 7	$\begin{array}{c} 10 & 10 & 14 & 15 & 12 \\ 10 & 10 & 14 & 15 & 12 \\ 10 & 10 & 10 & 12 \\ 10 & 10 & 10 & 12 \\ 10 & 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 & 10 & 12 \\ 10 &$	99 98 97 96 95 94 93 92 71 70 69 68 67 66 65 61	75 02 01 75 00 75 000 75 000 75 000 75 000 75 000 75 000000000000000000000000000000000000	76 71 73 79 80 81 82 83 83 90 91 92 93 94 95 96 97 93 99 (A.D. 200 is-not. a leep year) 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 36 12 92 31 34 35 26 37 38 39 40 14 43
	56 55 54 53 52 51 50 4 28 27 26 25 24 23 22 2	9 48 47 46 45 44 21 20 1 9 18 17 16	43 42 41 40 39 38 37 86 15 14 13 13 11 10 09 08	5 34 33 32 31 30 29 17 06 05 04 03 02 01	41 45 46 47 18 49 50 51 51 53 54 55 66 57 58 59 66 61 62 63 61 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 81 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99
2800 B.C 2701 B.C.	(2300 B.C. Is a leap year) 00 9. 93 97 96 95 94 9. 72 71 70 69 68 67 66 6.	3 92 91 90 89 88 5 64 63 62 61 60	87 86 85 84 83 82 81 80 10 53 57 (6 55 54 53 12	A.D. 300- 9 78 77 76 75 74 73 A.D. 39 1 50 49 18 47 45 45	(A.0, 202) is not a leng y(at) 12 1.3 11 15 16 17 13 19 30 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 41 43 47 45 45 47 45 40 50 51 52 43 54 55 56 57 55 49 66 16 66 66 77
0700 8 0	44 43 42 41 40 39 38 3 16 15 14 13 12 11 10 0	7 36 35 34 33 32 9 08 07 06 05 04	21 30 29 28 27 26 25 24 03 02 01	23 22 21 25 19 17 17	63 (9 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 06 . 7 53 99
2700 B.C. 2601 B.C.	(2700 B.C. is not a leap yea 00 99 58 9 76 75 74 73 72 71 70 69	nr) 97 96 95 94 93 92 9 68 67 66 65 64	91 90 89 88 87 86 35 84 63 62 61 60 19 58 57 56	A.D. 400- 3 82 81 80 79 78 77 A.D. 499 5 54 53 52 51 50 49	(A.D. 400 is a teap year) 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 33 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
	48 47 46 45 44 43 42 4 20 19 18 17 16 15 14 1	1 40 39 38 37 36 3 12 11 10 09 08	35 34 33 32 31 30 29 28 07 06 05 04 03 02 01	27 26 25 24 23 22 21	52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 s0 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

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Fr Sa Su Mo We Th Fr Sa Mo To We Th Sa Su Mo Tu Th Fr Sa Su Tu We Th Fr Su Mo Tu We Fr Sa Su Mo We Th Fr Sa Mo Tu We Th Sa Su Mo Tu Th Fr Sa Su Tu We Th Fr Su Mo Tu We 2600 B.C.-(2600 B.C. is not a lean year) A.B. 500- (A.B. 500 is not a lean year) 00 61 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 00 99 18 97 96 95 94 93 92 91 90 59 88 87 56 85 84 83 82 81 20 21 22 23 24 25 26 27 28 29 30 31 82 33 34 35 36 37 33 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 2501 B.C A.D 599 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 66 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 03 08 07 06 05 04 03 02 01 A.D. 600- (A.D. 600 is not a leap year) 00 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 A.D. 699 2500 B.C.- (2500 B.C. is not a leap year) 84 83 82 81 80 79 78 77 76 75 74 73 72 71 51 69 98 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 86 35 34 33 32 31 30 29 2401 B.C. 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 A.D. 700- (A.D. 700 in not a leap year) A.D. 799 2400 B.C. (2400 B.C. is a lean year) 2301 B.C. 00 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 D 72 71 70 69 68 67 66 65 64 63 62 61 60 59 53 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 53 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 98 27 93 99 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 2300 B.C.-(2300 B.C. is not a leap year) 2201 B.C. 00 99 58 97 96 95 94 93 93 91 90 89 88 87 86 85 81 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 19 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 56 37 56 35 34 33 52 31 30 29 58 27 26 25 51 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 A.B. 920-A.D. 999 2200 B.C.- (2200 B.C. is not a leap year) 00 99 58 97 96 95 94 93 92 91 90 19 88 87 86 85 84 83 32 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 61 63 62 61 60 59 58 57 56 55 47 3 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 56 35 34 33 55 34 10 29 38 27 26 25 2101 B.C. A.9, 1000- (A.9, 1000 is not a leap year) 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 01 03 02 01 A B 1009 2100 B.C.- (2100 B.C. is not a leap year) 00 99 95 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 9 68 67 66 65 61 63 62 61 60 59 53 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 86 55 34 33 82 31 30 29 2001 B.C. A.D. 1100-(A.D. 1100 is not a lean year) 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 A.D. 11.9 2000 8 C -(2000 B.C. is a leap year) 1901 B.C. 00 93 93 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 53 57 56 55 54 53 52 51 50 49 48 47 46 5 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 1 19 13 17 96 17 95 99 (A.D. 1200 is a leap year) A B 1200. 16 15 14 13 12 11 10 69 08 07 06 05 04 03 02 01 A.D. 1299 1900 B.C.-(1900 B.C. is not a leap year) 1801 B.C. 00 99 18 97 96 95 94 93 92 91 90 80 88 87 86 85 81 83 82 81 81 79 78 77 76 75 74 73 72 71 82 69 68 67 65 65 64 63 62 61 60 9 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 A.D. 1300-(A.D. 1300 is not a leap year) 20 19 18 17 16 15 14 13 12 13 10 69 08 07 66 05 04 03 02 61 A.D. 1399 1800 B.C.- (1800 B.C. is not a leap year) 00 99 98 97 96 95 94 93 92 91 90 89 88 87 85 25 84 83 82 81 1701 B.C. 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 61 63 62 61 69 59 58 57 56 55 54 13 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 86 35 34 33 82 31 10 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 02 08 07 06 65 04 03 02 01 A D. 1410-A.D. 1499 1700 B.C.- (1700 B.C. is not a leap year) 00 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 1601 B.C. 84 83 82 81 80 79 75 77 76 75 74 73 72 71 70 69 68 67 66 60 61 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 76 35 34 33 32 31 30 29 (A.D. 1500 is not a leap year) A D. 1500+ 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 1600 B.C.. (1600 B.C. is a leap year) A.D. 1509 1501 B.C. 00 99 93 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 60 99 58 57 66 55 54 53 52 71 50 49 48 47 45 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 96 17 98 99 A.D. 1100-(A.D. 1600 is a leap year) 16 X 14 13 12 11 10 69 08 07 06 05 04 03 02 01 A.D. 1692 1500 B.C.+ (1500 B.C. is not a leap year) 1401 B.C. 00 99 18 97 96 95 94 93 92 91 90 89 88 87 86 85 83 83 82 81 89 79 78 77 76 J 74 73 72 71 70 U 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 33 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 66 05 04 03 02 01 A.D. 1700-A.D. 1759
 1400 B.C.
 (1400 B.C.) is not a leap year) 00 99 (8 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 1301 B.C.
 80 79 78 77 76 75 74 73 72 17 10 69 86 86 76 66 61 63 C2 61 60 59 58 57 56 55 54 53 53 21 50 49 88 47 46 45 44 43 42 41 40 39 68 57 36 55 34 33 82 33 (5) 29 82 72 62 55
 (A.D. 1800 is not a leap year) A.D. 1500-24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 00 08 07 05 05 04 03 f⁻⁻ 01 A.D. 1899 1300 B.C.- (1300 B.C. is not a loap year) 00 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 500 50, 15 100 4 164 5417 54 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 61 63 62 64 60 59 53 17 56 55 54 53 52 51 50 40 48 47 45 45 44 43 42 41 40 59 28 37 16 55 34 33 62 31 50 29 A.P. 1900-28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 18 07 06 05 01 63 62 01 A.D. 1555 1201 B.C. A.P. 1900- (A.P. 1900 is not a lean year) 12 13 K 15 16 17 T 15 20 21 F 23 24 25 B 27 28 29 30 N P 33 34 35 1200 B.C.- (1200 B.C. is not a leap year) 00 59 51 97 96 95 94 93 92 91 93 39 1101 B.C. 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 79 68 67 66 65 61 63 62 (1 60 55 58 57 56 55 54 53 62 51 55 47 78 47 45 45 74 43 42 41 47 39 33 37 86 35 31 33 32 31 30 29 28 27 26 25 24 23 22 21 20 83 13 17 16 15 14 13 12 11 10 69 68 07 60 05 64 03 62 01 (1100 B.C. is not a loap year) 92 91 90 89 88 78 68 58 48 88 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 Nh 455 B.C.—Mutemiah. 3 B.C.—LCGGS comes. BJ A.D. 12—Boy Jesus in temple. R A.D. 33—Year of Ransom. 64 63 62 61 60 59 58 57 56 55 54 3 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 Z 1879—Zien's Watch Tower Figur. W 1824—Vatch Tower Rible & Tract Society Incorporated, K 1914—King 36 Y 34 33 32 31 30 29 Q Dd 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 returns. T 1913—Temple. F 1922—Anointing of all firsh. B 1926—Time of blessedness. N 1931—New name. 1100 B.C.-1001 B.C. 369

H 2003 B.C.—Nypectricy biggs. M 3341 B.C.—M thuselab's tirth. A 3095 B.C.—Adam's death. E 3041 B.C.— E sh translated. \$1 2000 B.C.—Chem's Birth. B 2373 B.C.—Delege and Mathuselah's death. C 1945 B.C.— exchant with Abraham. I 1.20 B.C.—Escar's birth. S2 1870 B.C.—Shem's death. X 1515 B.C.—Excdus. J 1475 B.C.—Creation Jordan. U 1469 B.C.—Jegics bein. S3 1119 B.C.—Saul entimoned. Y 1035 B.C.— I Kings 6:1 Ky. Q 1023 B.C.—Heast finished. Dd 1027 B.C.—Dedication. Hz 745 B.C.—Heekish. V 641 B.C. Interface and a statement of the statem F 1932-Sanctuary cleansed.

LUNATIONS USHERING IN THE YEARS OR PERIODS WHICH CONTAIN THE MOST IMPORTANT EVENTS OF HISTORY, STATED IN TERMS OF THE GREGORIAN CALENDAR, AND ASTRONOMICALLY EXACT

(In the dates cited below are cited certain other dates, pri- Verhal Equinox No. 2000, hi much held in esteem.) B.C. Date H. M.	also or to therto Second	Inter- Inter- vening vening Yrs. Moons	Analysis of the Time Content of the Intervening Moons Fraction of Week Weeks at End of Period & 70Hs D. H. M. Seconds	Analysis of Days in Intor- vening Moons Se Normal Lp.	ials and Tota est the Vern	s Starting with I Equinox for	i the New Moon Near- the Year 4028 B.C.
4129 Sr Sn 22 8 23 27 /	64592 A	1/2 6	5 05.0 0 4 09 17 199856	176 1 Ver	n laner		
4128 Tu Kr 17 12 47 444	04448 B	100 1037	5019.3 3 8 11 3 975370	36505 24 Edu	i Month Wa	oke Onve	Total Seconds
4028 Fr Mr 22 8 54 48.6	56975 P	1556 19245	5 81158-1 0 4 22 55.46312	567941 376	i monta in	043 DCJ3	Total Coonda
2472 Sa Mr 22 1 13 45.1	3233 A	300 1237	5218-3 3 8 11 3.975312	36505 24 155	5 19245 81	.88-1 558317	49102518176.46312
2372 Tu Mr 26 9 20 49.1	08192 A	327 4044	17050-2 1 16 53 5.962944	119344 78 165	5 20482 864	05-4 604846	52258653000,438432
2045 Th Mr 15 2 09 55.0	71136 A	100 1237	5218-3 3 8 11 3.975312	36504 25 198	3 24526 1034	66-6 724263	62576687946,401376
1945 Su Mr 19 10 16 59.0	46448 A	25 309	1303-4 3 22 54 45.277534	9119 6 208	3 25763 1086	05-2 760797	65732822770.376688
1920 Th Mr 12 9 07 44.3	24032 A	305 3773	3 15916-7 6 21 56 9,554448	111346 73 210	3 26072 1099	82-6 769922	66521218615.654272
1615 Th Ap 2 6 59 53.8	57848 A	40 494	2084-0 0 2 43 35.298144	14578 10 241	3 29845 1259	05-6 831341	76147812545.20872
1575 Th Mr 11 9 39 29.1	76624 A	60 742	3130-2 1 15 47 25,812192	21897 15 245	3 30339 1279	89-6 895929	77408225320.506064
1515 Sa Mr 8 2 22 54.9	38816 A	40 495	5 2068-1 1 15 27 38,16312	14607 10 251	3 31081 131	20-1 917841	79301395926.319056
1475 Su Mr 16 5 46 33.1	51936 P	6 75	316-3 2 19 07 34.8732	2214 1 255	3 31576 1332	08-2 932458	80564360144.482176
1469 We An 2 12 50 8.0	25136 P	434 5367	22641-4 3 16 03 16.325192	158379 112 255	9 31651 1333	24-5 934673	80755713359.365376
1035 Su Mr 16 4 54 24.3	51328 A	7 87	367-0 0 3 55 9.252912	2567 2 299	3 37018 1561	66-2 1093164	94449312215,681563
1025 Su Mr 28 8 46 33.6	0424 A	30 371	1565-1 0 20 25 42.906095	10950 6 300	37105 156	33-2 1095733	94671287744,93448
998 No Mr 23 5 08 16.5	10336 A	253 3129	12300-1 1 5 09 24.509904	92340 61 303	37476 1580	98-3 1106689	95617873047.840576
745 Ta Mr 22 10 13 41.0	2024 A	104 1286	5 5425-1 1 <u>8-0</u> 9 24.359136	37951 25 328	3 40605 1712	98-4 1199090	103601337772.35048
641 We Mr 13 6 19 5.3	79376 P	34 421	1776-10 2.88 6.134396	12424 9 338	7 41891 1767	23-5 1237066	106882493296.709616
607 Th Mr 27 3 23 11,5	34272 A	70 866	5 3653-2 2 11 49 21.069216	25557 16 342	1 42312 1784	99-6 1249499	107956650742.864512
537 Sa Ap 3 3 08 32.6	i03438 P	69 853	3 3598-4 3 14 16 43.824528	25173 17 349	1 43178 1821	53-1 1275072	110166200263.933728
468 We Mr 22 5 21 16.4	23016 A	13 161	679-1 1 10 15 41.251136	4751 3 356	0 44031 1853	51-5 1300262	112342581027.758256
455 Th Mr 28 3 32 57.0	89152 P	452 5590	23582-2 1 23 50 55,215248	164959 117 357	3 44192 186	30-6 1305016	112753363329,019392
BC 3 Sa Mr 14 3 19 52.9	04992 P	14 173	729-6 5 19 04 15,640848	5105 4 402	5 49782 2100	13-1 1470092	127015923944.235232
AD12 Fr Mr 9 10 20 08.5	4584 A	21 260	1096-6 5 22 56 24.893760	7673 5 403	9 49955 210	43-0 1475201	127457328559.87608
AD33 Th Mr 17 9 12 33.4	396 A	1846 22832	96320-2 2 9 42 13.132032	673795 447 406	0 50215 211	39-6 1432879	128120703704.76984
1879 Sa Mr 22 6 50 46.5	71632 P	5 62	2 261-4 3 21 34 57.628512	1829 2 590	5 73047 3083	60-1 2157121	186375247197.901872
1884 We Mr 26 4 21 42.2	200144 P	30 371	1565-1 0 20 25 42,905096	10950 6 591	1 73109 3084	21-5 2158952	186533436655,530334
1914 Th Mr 25 12 43 27.1	.0624 Pa	4 49	206-5 4 24 02 20,383324	1446 1 594	1 73480 3099	86-6 2169908	187480021958,43648
1918 Tu Mr 12 12 41 47.4	90064 Pb	4 50	210-7 6 12 46 23 2493	1476 1 594	5 73529 310	93-4 2171355	187605042658.820304
1922 Tu Mr 28 1 24 10.7	33864 Ac	4 49	206-5 4 24 02 20.333824	1446 1 594	73579 3104	04-4 2172832	187732614802.069104
1926 Su Mr 14 1 22 31.3	22688 Ad	5 62	261-4 3 21 34 57.628512	1830 1 595	3 73628 3100	11-2 2174279	187857635502.452923
1931 We Mr 18 10 53 28.7	512 Pe	1 12	2 50-4 4 8 52 34.37912	353 1 595	3 73690 3108	72-6 2176110	188015824960.08144
1932 No Mr 7 7 42 3.1	30912 Af	3 38	160-2 2 3 57 43.869088	1122 0 595	73702 3109	23-2 2176464	188046442274.461152
1935 We Ap 3 11 35 52.	Ag			596	2 73740 3110	83-5 2177586	188143397103,33024

Time shown in each case is Jerusalem time, 7 hours 20 minutes 52 seconds earlier than Eastern Standard time. Each calculation was checked to the one preceding and the one following, and in every instance with the 1935 A.D. date shown, with which agreement is exact. The variations of a b c d e f g, amounting respectively to about 8, 10, 14, $4\frac{1}{2}$, 10, 15, and 3 hours, after calculations extending over 6.000 years, are not due to any errors in the calculations themselves, but to variations from the mean lunation; explained in full in its proper place. In figuring eclipses and other periods astronomers calculate the mean time between lunations as 2551442.864976 seconds. (Their method is to express the time in days and decimals thereof, but the results are the same either way.) These figures, astronomically exact to a millionth of a second, are used in all the above calculations.

God made. No man may alter the number of days in a week; in these days (since the French Revolution calendar fiasco) none but a theologian, with huge conceit and no reverence for God, would contemplate for a moment such an act of presumption. Man may number his weeks; there is no harm in so doing. Since God is so good as to give them, it would seem that, at least once a year, man might take note of their number.

Learning Something About God's Months

It seems strange that man's months should be so different from God's months, that the two kinds of months could be going along steadily side by side, overlapping each other, etc., and yet most people know next to nothing about the particular kind of months that God provided for the nocturnal government of the earth. On page 371 begins a lunation experience table,

carefully compiled from records in the New York Public Library, covering the fifty years from 1886 to date. The moons are here numbered by The Golden Age, the one for January 5, 1886, being numbered 73131; thereafter they are in sequence down to 73761, the number of the lunation for December 13, 1936, which is as far as the compilation goes. This table is in Jerusalem time, 7 hours 24 minutes 52 seconds earlier than Eastern Standard time. It is quite self-explanatory. God's months are of 29 or 30 days each; their moons rise at various times of the day or night, on various days in the week, as specified in the first eight columns, the table concluding with the dates grouped under the word "Actual".

The "mean lunation" is universally agreed by astronomers to be 29.530588715 days. Otherwise stated, this is 29 days 12 hours 44 minutes 2.864976 seconds; or it may be stated altogether

Lunation Experience Table, Jerusalem Time

(Jerusalem time is 2 hours 25 minutes* earlier [faster] than Greenwich; or 7 hours 25 minutes earlier than Eastern Standard time. To get Jerusalem time, therefore, add 7 hours 25 minutes to Eastern Standard time.) (*24 minutes 52 seconds)

	Compared Compared Mins. with next with Mean			Compared Compared Mins. with next with Mean
Actual Mean Moon Days Date Time Date Time	over Slow Fast Slow Fast 29 Ds hrmihrmihrmihrmi	Actual Moon Days Date Time	Mean Date Time	over Slow Fast Slow Fast 29 Ds hr mi hr mi hr mi
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	73181 29 Tu Jan 21 2:18am 73182 29 We Feb 19 12:57pm 73183 30 Th Mar 20 11:30pm 73184 29 Sa Apr 19 10:35am 73185 30 Su May 18 11:48pm 73186 30 Tu Jun 17 12:27pm 73187 29 Th Jul 17 3:19am 73188 30 Fr Aug 15 6:49pm 73189 30 Su Sep 14 10:22am 73190 29 Tu Oct 14 1:34am 73191 30 We Nov 12 4:07pm 73192 29 Fr Dec 12 5:40am	1890 A.D. Tu Jan 21 8:11am We Feb 19 8:55pm Fr Mar 21 9:33am Na Apr 19 10:23pm Mo May 19 11:07am Tu Jun 17 11:51pm Th Jul 17 12:35pm Sa Aug 16 1:19am Su Sep 14 2:03pm Tu Oct 14 2:47am We Nay 12 3:31pm Fr Dec 12 4:15am	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
73144 30 Me Jan 24 5:31am Me Jan 24 5:03 73145 29 We Feb 23 12:10am We Feb 23 5:47 73145 29 We Feb 23 12:10am We Feb 23 5:47 73145 29 We Feb 23 12:10am Th Maz 24 6:33 73147 30 Sa Apr 23 11:22am Sa Apr 23 7:15 73149 29 Tu Jun 21 1:22pm Tu Jun 21 8:43 73150 30 We Jul 20 1:1:5pm We Jul 20 9:1:17 73151 29 Fr Aug 19 S:0Gam Fr Aug 19 10:17 73152 30 Sa Se 17 1:05am Mo Oct 17 11:053 73154 29 Tu Nov 15 1:038am We Nev 16 12:22 73155 30 We Ded 15	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	73193 30 Sa Jan 10 5:54pm 73194 29 Mo Feb 9 4:41am 73195 29 Tu Mar 10 2:10pm 73196 30 We Apr 8 11:26pm 73197 29 Fr May 8 8:45am 73128 30 Sa Jun 6 6:25pm 73200 30 Tu Aug 4 7:42pm 73201 30 Tu Aug 4 7:42pm 73202 29 Sa det 3 3:27am 73203 30 Su Nov 1 9:02pm 73204 30 Tu Dec 1 2:14pm 73205 29 Th Dec 1 5:49am	1801 A.D. Sa Jan 10 4:59pm No Feb 9 5:43am Tu Mar 10 6:27pm Th Apr 9 7:11am Fr May 8 7:55pm Su Jun 7 8:39am Mo Jul 6 9:23pm We Aug 5 10:07am Th Sep 3 10:51pm Sa Ott 3 11:35am Mo Nov 2 12:19am Tu Dec 1 1:03pm Th Dec 31 1:47am	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	73206 30 Fr Jan 29 7:08pm 73207 29 Su Feb 28 6:16am 73208 30 Mo Mar 28 3:47pm 73209 29 We Apr 27 12:16an 73210 29 Th May 26 8:18an 73212 29 Su Jul 24 2:00am 73213 30 Mo Aug 22 1:28pm 73214 29 We Sep 21 3:45am 73215 30 Th 0et 20 8:53pm 73216 30 Sa Nor 19 3:48pm 73217 30 Mo Dec 19 10:42am	1892 A.D. Fr Jan 29 2:31pm Su Feb 28 3:15am Mo Mar 28 3:59pm We Apr 27 4:43am Th May 26 5:27pm Sa Jun 25 6:11am Su Jof 24 6:55pm Tu Aug 23 7:39am We Sep 21 8:23pm Fr Oct 21 9:07am Sa Nov 19 9:51pm Mo Dec 19 10:35am	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1889 A.D. 73169 30 Th Jan 31 11:39am Th Jan 31 11:23 73170 29 Sa Mar 2 12:30am Sa Mar 2 12:07 73171 30 Su Mar 31 2:05pm Mo Apr 1 12:51 73172 29 Tu Apr 30 4:34am Tu Apr 30 2:35 73173 30 We May 29 7:49pm Th May 30 2:35 73174 30 Fr Jun 23 11:23am Ke Jun 23 3:02 73175 29 Su Jul 28 2:30am Su Jul 28 3:02 73176 30 Mo Aug 26 4:29pm Mo Aug 26 4:53 73176 30 Th Oct 24 4:55pm Th 0:24 5:59 73179 29 Sa Nov 23 4:13am Sa <nov 23<="" td=""> 6:43 73178 30 The 22 3:21pm Su Die 22 7:27</nov>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	73218 29 We Jan 18 3:57am 73219 30 Th Feb 16 6:46pm 73220 29 Sa Mar 18 7:03am 73221 30 Su Apr 16 5:04pm 73222 29 Tu May 16 1:16am 73223 29 We Jun 14 8:20am 73224 29 Th Jul 13 3:16pm 73225 30 Fr Aug 11 1:17pm 73226 29 Su Sep 10 9:34am 73228 30 We Nov 8 3:26pm 73228 30 Fr Dec 8 10:09am	1893 A.D. Tu Jan 17 11:19pm Th Feb 16 12:03pm Sa Mar 18 12:47am Su Apr 16 1:31pm Tu May 16 2:15am We Jun 14 2:55pm Fr Jul 14 3:43am Sa Aug 12 4:27pm Mo Sep 11 5:11am Tu 0ct 10 5:55pm Th Nuv 9 6:39am Fr Dec 8 7:23pm	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

in seconds as 2551442.864976 seconds. This stating of time in such detail as to take note of millionths of a second seems strange to most practical persons, but is in regular use among astronomers.

Astronomers Must Love Truth

K

It may as well be settled that astronomers love truth in the abstract. They must; their business requires it. It was of great interest in New York city some years ago when an eclipse was due. The astronomers, as a matter of their common duty to mankind, announced the exact time the eclipse would occur. Additionally, they stated that the edge of totality of the eclipse would be "somewhere between 145th street and 165th street in upper New York". When the eclipse came, its edge of totality was at 155th street, just halfway between. This was not an accident, but the result of careful calculations.

In the year 1846 two astronomers, Adams in England, and Leverrier in France, located the planet Neptune (the existence of which was suspected, but not known) by the use of astro-

Moon	Days	: Date	Actual e Time	Mean Date Time	C Mins. w over Si 29 Ds hr	ompared ith next ow Fast mi hr ml	Com with Slow hr mi	pared Mean Fast hr mi
	-			3004 4 5				
73020	30	Su la	n 7 5:36am	1034 A.U. Su lan '7 B-07a	» 111 <u>8</u> 5	54		2 31
73230	20	JU JA	h 6 12 14am	Ma Fab 5 9:51a	n 603 3	/9	3.03	6 71
73232	30	We Ma	r 7 4.47am	We Mar 7 9:35a	N 822		7 12	
73233	29	Fr An	ar 6 6:29am	Th Apr 510:190	1 642	2 02	8 10	
73234	30	Sa Ma	y 5 5:11pm	Sa May 511:03a	n 494	4 30	6 08	
73235	29	Mo Ju	n 4 1:25am	Su Jon 311:47p	m 409	5 55	1 38	
73236	29	Tu Ju	I 3 8:1 4am	Tu Jui 312:31p	n 399	6 05		4 17
73237	29	We Au	ıg 1 2:53pm	Th Aug 2 1:15a	n 460	5 04		10 22
73238	30	Th Au	ig 30 10:33pm	Fr Aug 31 1:59p	1 580	3 04		15 26
72239	29	5a 56	929 5:13am	SU Sep 30 2:43a	<i>ככו</i> ח הרופים	12		15 00
73240	30	- ου - ου - Τι - Να	20 0.20 µm	We Nev 29 2.27p	n 1046 4	42		16 49
73242	29	Th De	c 27 4:49am	Th Dec 27 4:550	n 1146 6	22		12 06
-				1895 A.D.				
73243	30	Fr Ja	n 25 11:55pm	Sa Jan 26 5:39a	n 1157 6.	33		544
73244	30	Su Fe	b 24 7:12pm	Su Feb 24 6:23p	n 1062 4	58	49	
73245	30	Tu Ma	ar 26 12:54pm	Tu Mar 26 7:07a	n 886 2 I	02	5 47	
73246	29	Th Ap	or 25 3:40am	We Apr 24 7:51p	1 695	1 09	7 49	
73247	30	Fr Ma	y 24 3:15pm	Fr May 24 8:35a	n 545	3 39	6 40	
72248	29	50 Ju Mo In	122 S 012m	Sa Jui 22 9:19p	11 46L	500	2.01	2.02
73250	29	Tu An	a 20 3:25mm	Tu Ang 20 10 47n	n 479	445		7 22
73251	30	We Se	n 18 11:24pm	The Sep 19 11:31a	n 555	3 29		12 07
73252	29	Fr Cc	t 18 8:39am	Sa Oct 19 12:150	n 661	1 43		15 36
73253	30	Sa No	v 16 7:40pm	Su Nov 17 12:59p	n 79 8	34		17 19
73254	30	Mo De	e 16 8:58am	Tu Dec 17 1:43a	a 951 3	07		16 45
				1896 A.D.				
73255	29	We Ja	n 15 12:49am	We Jan 15 2:27p	n 1073 5	09		13 38
73256	30	Th Fe	b13 642pm	Fr Feb 14 3:11a	n 11155.	51		8 29
73257	30	Sa Ma	ar 14 1:17pm	Sa Mar 14 3:55p	n 1055 4.	51	A	2 38
73258	29	10 A5	12 10 152am	MO ADE 15 4:59a	n 92424	+U 1.0	2 13	
73260	29	Th la	n 11 11 12 10.10pm	Th Lum 11 6:07a	n 650 .	1 52	5 05	
73261	30	Fr Ju	1 10 10:04nm	Fr 1st 10 6:51p	1 567	3 17	3 13	
73262	29	Su Au	g 9 7:31am	Su Aug 9 7:35a	n 521	4 03		04
73263	30	Mo Se	p 7 4:12pm	Mo Sep 7 8:19p	1 515	4 09		4 07
73254	29	We Ge	t 712:47am	We Det 7 9:03a	n 549	3 35		816
73265	29	Th No	w 5 9:56am	Th Nov 5 9:47p	n 624	2 20		11 5 1
73266	29	Fr De	c 4 8:10pm	Sa Dec 510:31a	1 732	32		14 11
				1007 4 8				
73067	20	Sa lar	n 3 S·30am	1897 A.U. Su lan 311-15m	9 850 1 4			14.43
73268	30	Ma Fel	h 1 10:42am	Tr Feb 2 11:59a	1 943 2	20 50		1317
73269	30	We Ma	r 3 2:25pm	Th Mar 4 12:43a	1 988 3	14		10 18
73270	29	Fr Ap	r 2 6:53am	Fr Apr 2 1:27p	982.3	33		634
73271	30	Sa May	y 111:1 5pm	Su May 2 2:11a	n 940 2 :	56		2 56
73272	30	Мо Ма	y 31 2:55pm	Mo May 31 2:55pt	n 86914	15		
73273	29	We Ju	n 30 5:24am	We Jun 30 3:39ai	1 783 .	19	1 45	
73274	30	Th Ju	1 29 6:27pm	Th Jul 29 4:23pt	1 691	113	2 04	
73275	29	Sa Alli	g 28 5:58am	5a Alig 28 5:07ai	1 617	2 27	51	3.96
72077	20	30 301 Ta 0e	126 41.5µm 126 1.57am	Tu Bet 26 5:35a	1 282	2 502		1 29
73278	29	Wa Nm	v 24 11:49am	We Nov 24 7:19a	1 635	2 09		730
73279	30	Th De	e 23 10:24pm	Fr Dee 24 8:03ar	1 689	115		9 3 9
				1398 A.D.				
73280	29	Sa Jai	n 22 9:53am	Sa Jan 22 8:47pi	1 736	25		10 54
73281	30	Su Fel	b 20 10:09pm	Mo Feb 21 9:31a	1 777 :	13		11 22
73282	30	Tu Mai	r 22 11:06am	Tu Mar 22 10:15pi	823	59		11 09
73283	29	Th Ap	r 21 12:49am	Th Apr 21 10:59ar	1 878 1 !	54		1010
73284	30	Fr May	y20 3:27pm	Fr May 20 11:43pt	1 911 22	27		815
73026	29	Su Jui Mo Iui	113 10:562m	54 Jun 19 12:27pt	995 2 3	2		0.55
73287	30	We Aur	n 17 1:03nm	We Aug 17 3:55m	816	52		52
73288	29	Fr Ser	n 16 2:39am	Fr Sen 16 2:39a	1 747	17		
73289	30	Sa Oci	t 15 3:06pm	Sa Oct 15 3:23p	1 703	101		17
73290	29	Mo Nov	v 14 2:49am	Mo Nov 14 4:07ar	683	1 21		1 18
73291	30	Tu Dec	c 13 2:12pm	Tu Dec 13 4:51 pr	n 666	1 38		2 39
				1899 A.D.				
73292	29	Th Jar	n 12 1:18am	Th Jan 12 5:35a	1 652	1 52		4 17
73293	29	Fr Fel	b 10 12:10pm	Fr Feb 10 6:19pr	611	2 33		6 09
12294	00	ba Mai Ma Arr	- 10 - 9:40am	SU MAR 12 7:03ar	1 626	216		642 10 F9
73295	29 30	Ta Mov	ι⊥υ ο,+98/m γ 9 8-∩7n∞	- and Aprill 7/3/pr We May 10 9:31-	1 075 1 762	1 20		12 24
73297	29	Th lan	1 8 8:49am	Th Inn & 9:15m	851 1 4	27		12 26
73298	30	Fr Jal	1 7 11:00am	Sa Jul 8 9:59a	1 917 2	33		10 59
73299	30	Sa Aug	6 2:17pm	Su Aug 610:43pr	945 3 (01		8 26
73300	29	Tu Sep	p 5 6:02am	Tu Sep 5 11:27ar	941 2	57 👳		5 25
73301	30	We Oc	t 4 9:43øm	Th Oct 512:11a:	912 2 2	28		2 28
73302	30	Fr No	v 312:55pm	Fr Nov 3 12:55pr	1 851 1 1	57	7 24	
כטכבו	23	38 200	n a atteam	່ວຢ ມະບຸລ 1∷3≌an	162 2	1.1	1 3/	

nomical calculations very similar to those used in this series of articles.

In figuring the mean calculations shown in the central part of the tables, No. 73176, August 26, 1889, was taken as the starting point, because it was only about 2 minutes away from the mean generally used by astronomers for current calculations, that is, 29 days 12 hours 44 minutes (seconds being dropped). From this starting point the calculations were carried backward to January, 1886, and forward to December, 1936.

The next column, entitled "Minutes over 29 Days", is a very useful one for purposes of study. Each moon is a period of 29 days and a certain number of minutes in addition. The total number of minutes over 29 days between this moon and the one next following it is given. Thus, from the new moon of Tuesday, January 5, 1886, at 10:13 a.m., to the new moon of Thursday, February 4, 1886, at 5:43 a.m., was 29 days and 1,170 minutes. See Nos. 73131 and 73132.

In the next two columns each moon is compared with the one next to it. Thus, it being taken for truth that the normal time from one new moon to another is 29 days, 12 hours and 44 minutes, that is, 29 days and 764 minutes, if a moon takes 29 days and 1,170 minutes, it is slow by the difference, which is 406 minutes (6 hours 46 minutes).

The Moon Runs Fast

The experience tables show that the moon has the habit of running ahead of its schedule (if such an expression is permissible). Thus, according to the "Mean" the moon on January 5. 1886, was not due to rise until 7:31 p.m. of that day, but, as a matter of fact, it rose 9 hours 18 minutes earlier; so it was fast by that amount of time.

The lover of Jehovah God will now be greatly interested in the accompanying chart of lunations which shows the beautiful and graceful manner in which the moon keeps care of the seconds of the great Creator. It instantly appears that there is order, not the order of cogs and gears and rattling machinery, but the order of rhythm on a magnificent scale. But first another glance at the tables.

Take note of the last four columns of the tables and note how the moon is usually for seven moons fast, then for seven moons slow, etc., as compared with those that have gone before; it

		Compared Mine with part	Compared
Actual	Mean	over Slow Fast	Slow Fast
Moon Days Date Time	Date Time	29 Ds hr mi hr mi	kr mi br mi
72204 30 No fee 1 4-21mm	1900 A.D. Mo Ian 1 2:23mm	601 112	1 69
73305 29 We Jan 31 3:52am	We Jan 31 3:07am	602 242	45
73306 29 Th Mar 1 1:54pm	Th Mar 1 3:51pm	545 3.39	1 57
73307 30 Fr Mar 30 10:59mm	Sa Mar 31 4:35am	533 3 51	5 36
73309 30 Mo May 28 5:19pm	Tu May 29 6:03am	637 207	9 27 12 44
73310 29 We Jun 27 3:56am	We Jun 27 6:47pm	736 28	14 51
73311 30 Th Jul 26 4:12pm 73312 29 Sa Aug 25 6:223m	Fr Jul 27 7:31am Sa Ang 25 8:15am	850 1 26 954 3 20	15 19 13 53
73313 30 Su Sep 23 10:25pm	Mo Sep 24 8:51 am	1050 4 46	10 33
73314 30 Tu Oct 23 3:56pm	Tu Oct 23 9:43pm	1070 5 06	5 47
73315 30 Th Nov 22 9:46am 73316 29 Sa Dec 22 2:32am	Th Nov 22 10:27am Fr. Dec 21 11:11cm	1004 4 00	41 19
19910 29 30 Det 22 2.920m	11 Det ZI AITIPA	015 151	213
72217 20 Se lan 00 Extram	1901 A.D.	700 75	F 10
73318 29 Tu Feb 19 5:14am	Tu Feb 19 12:39am	60 3 235	5 10 4 35
73319 30 We Mar 20 3:22pm	We Mar 20 1:23pm	524 4 00	1 59
73320 2) Fr Apr 19 12:06am	Fr Apr 19 2:07am	481 4 43	2 01
73321 29 Sa May 18 8:07am 73322 30 Sa Jan 16 4:02am	No Jun 17 3:35am	4/5 449	6 44 11 33
73323 2) Tu Jul 16 12:39am	Tu Jul 16 4:19pm	617 2 27	15 40
73024 29 We Aug 14 10:56am	Th Asg 15 5:03am	771 07	18 07
75326 30 Sa Cet 12 3:40am	Fr 5(513-5(47pm Su Opt13-6(31am	1103 5 39	18 00
73327 30 Me Nev 11 10:03am	Mo Nov 11 7:15pm	1159 6 35	9 12
73328 29 We Dec 11 5:22am	We Dec 11 7:59am	1101 5 37	2 37
	1902 A.D.		
73329 30 Th Jan 911:43pm	Th Jan 9 8:43pm	967 3 23	3 00
73330 30 Sa Feb 8 3:50pm	Sa Feb 8 9:27am	809 45	6 23
73332 30 Tu Apr 8 4:195m	Tu Apr 810:55am	535 349	708 524
73333 29 Th May 8 1:14am	We May 7 11:39pm	445 513	1 35
73334 29 Fr Jun 6 8:40am	Fr Jun 6 12:20pm	408 556	3 43
73336 30 Su Aug 3 10:46pm	Ne Aug 4 1:51em	436 526 542 342	15 05
73337 29 Tu Sep 2 7:48pm	We Sip 3 2:35am	71.0 54	18 47
73338 30 We Oct 1 7:38am	Th Cet 2 3:19pm	904 2 20	19 41
73340 29 Su Nov 30 4:33am	5a Nov 1 4:03am Sa Nov 30 4:47nm	1071 507	17 21
73341 30 Me Dec 29 11:53pm	Tu Dec 30 5:51am	1154 6 30	5 38
	1003 4 5		
73342 30 We Jan 28 7:07pm	We Jan 28 6:15pm	1061 4 57	52
73343 30 Fr Feb 27 12:48pm	Fr Fab 27 6:59am	907 2 23	5 49
73344 29 Su Mar 29 3:55am	Sa Mar 28 7:43pm Ma Ang 27 9:03pm	726 38	812
70346 29 We May 27 1:18am	Tu May 26 9:11pm	442 522	4 07
73347 29 Th Jan 25 8:40am	The Jun 25 St55am	395 6 09	1 15
73343 27 Fr Jul 24 3:15pm 77349 30 So Ann 29 10:20nm	Fr Jul 24 10:39pm	425 539	7 24
73320 29 Mo Sep 21 7:COam	Tu Sep 22 12:07am	629 145	17 07
73351 30 Tu Oct 20 5:59pm	We Oct 21 12:51pm	820 56	18.52
73352 29 Th Nov 19 7:39am 73353 30 Fr Dec 18 11:55mm	Fr Nov 20 1:35am Sa Dec 19 2:79om	976 3 32 1100 5 36	17 56 14 94
	Sa Divis Lisphi	1100 9 70	14 24
	1904 A.D.		
73354 30 Su Jan 17 6:15pm	Mo Jan 18 3:03am	1158 6 34	8 43
73355 30 Th Mar 17 8:03am	Th Mar 17 4:32am	974 3 30	214 337
73357 29 Sa Apr 16 12:22am	Fr Apr 15 5:15pm	785 21	707
73353 29 Su May 15 1:27pm	Su May 15 5:59am	612 2 32	728
73360 29 We Jul 13 7:56am	No Jun 13 6:43pm We Jul 13 7:27am	497 427	4 56 29
73361 29 Th Aug 11 3:27pm	Th Aug 11 8:11pm	465 4 59	4 44
73362 30 Fr Sep 911:12pm	Sa Sep 10 8:55 am	522 4 02	943
73354 30 Me Nev 7 6:05mm	Tu Nov 810:23am	730 34	13 45 16 18
73365 29 We Dec 7 6:15am	We Dec 7 11:07pm	871 1 47	16 52
73366 30 Th Ian 5 8.46mm	1905 A.D. Fr ian 611-51am	1009 4 05	15.05
73367 30 Sa Feb 4 1:35pm	Su Feb 512:35pm	1093 5 29	11 00
73358 30 Mo Mar 6 7:48am	Mo Mar 6 1:19pm	1084 5 20	5 31
73369 29 We Apr 5 1:52am 73370 30 Th May 4 6-19mm	We Apr 5 2:03am Th May 4 2:47cm	937 3 43	11
73371 29 Sa Jun 3 8:25am	Sa Jun 3 3;31am	714 50	4 54
73372 30 Su Jul 2 8:19pm	Su Jul 2 4.1 pm	612 2 32	0 04
73373 29 Tu Aug 1 6:31am 73374 30 We Aug 30 3-43em	TU AUG 1 4:59am Wa Aug 30 5:43am	551 333 506 3.5°	1 32
73375 29 Fr Sep 29 12:28am	Fr Sep 29 6:27am	539 345	≥ 01 5 59
73376 29 Sa Oct 28 9:27am	Sa Oct 28 7:11pm	589 2.55	9 44
73377 30 Su Nov 26 7:16pm 73378 29 Tu Dec 26 6:32am	Mo Nev 27 7:55am Tu Dec 26 8:39pm	676 128 786 22	12 39 14 07

is not always for seven fast and for seven slow, but is so 73 percent of the time, a few sixes, eights and nines being sprinkled in.

Note again from the tables that the moon is in the habit of running fast not only with respect to the previous moon, but with respect to its mean lunation; for about $9\frac{1}{2}$ lunations it is fast with respect to its mean, and then, for 4 lunations, slow until the balance is recovered.

The way the astronomers put it is that the moon has a maximum eccentricity of orbit of 1.61959788103203 days. That is to say, stating this in a manner suitable for the general reader, the variation over any period of years, no matter how remote, will be not more than 1 day 14 hours 52 minutes $13\frac{1}{4}$ seconds. But the differences *need* not be of such an amount, and by proper care in taking the right kind of starting point the total difference over so long a period as 6,000 years will be only an hour or so, as will be shown.

Metonic Cycle and the God of Order

Men have been studying the moon many centuries. It is now about 2,400 years since the astronomer Meton discovered that after 235 lunations the new moon usually rises on the same day of the month that it did 19 years before. Thus, compare No. 73131, January 5, 1886, with No. 73366, January 5, 1905, or any two moons 235 lunations apart, and it will be found that this is *nearly* exact. The Callippic cycle is a refinement of the Metonic, in which 1 day is dropped every fourth Metonic cycle, to make the Metonics come out more nearly exact over longer periods of time.

Of much greater interest is the saros or eclipse cycle of 223 moons, used by all astronomers in calculating time of eclipses. Every 223 moons the moon is back where it was, if such an expression may be used. The chart (pages 374-375) helps to make this clear. Note again the data regarding the first moon mentioned in the table, No. 73131, of January 5, 1886; now note its position on the chart. Then add 223 moons, reaching to No. 73354, of January 17, 1904 (a period of 6,585.32 days, or 18 years and 10.32 or 11.32 days, depending on how many leap years are in the period), and notice on the chart that the moon is in the same relative position that it was at first. Compare any two moons 223 moons apart, and note the results.

Take the time to pay very special attention to this eclipse cycle feature, as it is the key to





						Com	pared	Con	tpared
		Artusi	Mean		Mins.	With	next Fast	with Slaw	n Mean Fast
N 0011	Days	Date Time	Date Ti	mø	29 Ds	hr mi	hrmi	hr mi	i hr mi
			1906 A.D.						
73379	30	We Jan 24 7:38pm	Th Jan 25 9:	23am	890	2 06			13 45
73380	30	Fr Feb 23 10:28am	Fr Feb 23 10:0	07 p m	953	3 09			11 39
73381	29	Su Mar 25 2:21am Ma Ang 23 6:35mm	Su Mar 25 10:	5lam 25nm	974	3 30			830
73383	30	We May 23 10:29am	We May 23 12:	2.Эµм 19nm	905	2 21			1 50
73384	29	Fr Jun 22 1:34am	Fr Jun 22 1:)3am	834	1 10		31	
73385	30	Sa Jul 21 3:28pm	Sa Jul 21 1:	47 p m	748		16	141	
73386	29	Mo Aug 20 3:56am Tu Son 18 3:00nm	Mo Aug 20 2:	3lam Jan	666		1 38	1 25	7.2
73388	29	Th Det 18 1:11am	Th Oct 18 3:	19µm 59am	594		2 50		2 48
73389	29	Fr Nov 16 11:05am	Fr Nov 16 4:	43pm	618		2 26		538
73390	30	Sa Dec 15 9:23pm	Su Dec 16 5:	2 7 am	663		141		8 04
73201	20	Ma lan 14 8.26am	1907 A.U. Mo lan 14 6.º	111100	706		58		943
73392	30	Tu Feb 12 8:12pm	We Feb 13 6:	55am	742		22		10 43
73393	29	Th Mar 14 8:34am	Th Mar 1,4 7:	39pm	781	17			11 05
73394	30	Fr Apr 12 9:35pm	Sa Apr 13 8:	23am	833	1 09			10 48
73395	30	Su May 12 11:28am	Su May 12 9:0	07 p.m.	891	2 07			939
73395	30	We Jul 70 5:46nm		35nm	927	2 45			4 19
73398	29	Fr Aug 9 9:06am	Fr Aug 911:	19am	867	1 43			213
73399	30	Sa Sep 7 11:33pm	Su Sep 8 12:0	13am	797	33			30
73400	30	Mo Oct 7 12:50pm	Mo Oct 7 12:	47 pm	738		26	03	
73401	29	We Nov 6 1:03am	We Nov 6 1:	3lam	704		1 00		23 1 1 1
73402	50	IN DEC 512:52pm	TH Det 5 2:.	rəbw	690		1 24		127
			1908 A.D.						
73403	29	Sa Jan 412:12am	Sa Jan 4 2:5	9am	653		1 51		2 47
73404	29	Su Feb 211:05am	Su Feb 2 3:4	13pm	621		2 23		433
73405	30	Mo Mar 2 9:26pm	To Mar 3 4:2	27am	605		2 39		7 01
73400	30	Th Aar 30 6:02.00	Fr May 1 5:	55am	701		1 0 3		11 53
73408	29	Sa May 30 5:43am	Sa May 30 6:	39pm	787	23			12 55
73409	30	Su Jan 28 6:50pm	Me Jun 29 7:	23am	895	211			12 33
73410	30	Tu Jul 28 9:45am	Tu Jul 28 8:0)7pm	943	2 59			10 22
73410	29	Er San 25 5-28nm	En San 25 Q.	STam S5am	960	3 03			دے ہ 1 17
73413	30	Su Oct 25 9:15am	Su Oct 25 10:	19am	907	2 23			104
73414	29	Tu Nov 24 12:22am	Mo Nov 23 11:0)3pm	836	1 12		1 19	
73415	30	We Dec 23 2:18pm	We Dec 23 11:4	17am	742		22	2 31	
			1000 4 0						
73416	29	Fr Jan 22 2:40am	Fr Jan 22 12:	31am	640		2 04	2 09	
73417	29	Sa Feb 20 1:20pm	Sa Feb 20 1:1	L5pm	560		3 24	05	
73418	30	Su Mar 21 10:40pm	Mo Mar 22 1:	59am	520		4 04		9 I9
73419	29	Tu Apr 20 6:20am	Tu Apr 20 2:4	13pm	531		3 53		.729
73420	20	We May 19 4:11pm Fr 103 18 1:57pm	Fr Jun 18 4	∠/am Ilom	576 676		1 28		14 45
73422	30	Sa Jul 17 1:130m	Su Jui 18 4:5	55am	790	26	1 20		15 42
73423	29	Mo Aug 16 2:23am	Mo Aug 16 5:	39pm	914	2 30			1516
73424	30	Tu Sep 14 5:37pm	We Sep 15 6:2	23am	1025	4 21			12 -5
73425	30	Th Oct 14 10:42am Sa Nov 13 4:47am	Th Uct 14 7:0)7pm :1om	1085	5 21 4 54			833 111
73420	30	Su Dec 12 10:27 nm	Su Dec 12 8:	35nm	953	3 09		1 52	2.7
13421	20	04 900 12 10 12 PM		2 pm	202				
	••		1910 A.D.		a	<u> </u>			
73428	30	Ti Jan 11 2:200m Th Feb 10 3:40em	Tit Jan 11 9:1	.9am	802	38	7 45	5 01	
73429	29	Fr Mar 11 2:41rm	Fr Mar 11 104	17am	553		3 31	3 51	
73431	30	Sa Apr 911:54pm	Sa Apr 911:2	31pm	488		4 36	23	
73432	29	Mo May 9 8:02am	Mo May 912:	L5pm	463		5 01		413
73433	29	Tu Jun 7 3:45pm	We Jun 812:5	9am	484		4 40		914
73434	30	We Jul 6 11:45pm	1h Jul 7 1.4	13pm	557		3 27		13 54
73436	30	Sa Sen 3 8:34nm	Su Sep 4 3:1	≤7am l]nm	867	143	1 10		18 37
73437	30	Mo Oct 311:01am	Tu Oct 4 3:	55am	1044	4 40			16.54
73438	29	We Nov 2 4:25am	We Nov 2 4:3	39pm	1154	б 30			1214
73439	30	Th Dec 111:39pm	Fr Dec 2 5:2	23am	1151	6 27			5 44
73440	30	Sa Dec 31 6:50pm	Sa D(031 6:0)7pm	1043	4 39		43	
			1911 A.D.						
73 441	30	Mo Jan 30 12:13pm	Mo Jan 30 6:	5lam	887	2 03		5 22	
73442	29	We Mar 1 3:00am	Tu Fcb 28 7:3	85pm	727		37	7 25	
73443	30	Th Mar 30 3:07pm	Th Mar 30 8:1	l9am	587		2 57	6 48	
13444 72444	29 20	5a Apr 29 12:54am Sa May 28 8:52am	Fr Apr 28 9:0	13pm IJarr	479 ⊿⊺⊨		4 45	3 51	= 1
73446	29	Mo Jun 26 3:49nm	Ma Jun 26 10.5	rrain Blam	413		949 551		54
73447	30	Tu Jui 25 10:41pm	We Jui 26 11:1	.5am	482		4 42		12 34
73 448	29	Th Aug 24 6:43am	Th Aug 24 11:5	69pm	623		2 21		17 16
73449	30	Fr Sep 22 5:06pm	Sa Sep 23 12:4	3pm	812	48			19 37
73450	29	Su Oct 22 6:38am	Mo Get 23 1:2	27 am	1000	3 56			18 49
73452	30	We Dec 20 5:09nm	Th Dec 21 2:0	⊥µm Sam	1170	007 646			در ۲4 846

unlocking the past. By means of this key astronomers have located many events which occurred hundreds of years before Christ. The chroniclers mentioned eclipses with much exactness, with the result that the dates could be exactly located.

Calculations in the Golden Age office show that in six thousand years the eclipse cycle locates a certain moon with absolute accuracy. It is on this wise: There were 73,740 moons from the lunation nearest the spring equinox of 4028 B.C. to the lunation nearest the spring equinox of A.D. 1935. There are 223 moons in an eclipse cycle; i.e., in 73,740 moons there are 330 eclipse cycles and 150 moons besides. Accordingly, 150 moons back from moon No. 73740, moon No. 73590 (of February 15, 1923) should be in exactly the same position in the heavens as the one some 5,950 years earlier (in 4028 B.C.); and such is the case.

At 29.530588715 days each, 73,590 moons amount, in total, to 2,173,156 days and about 34 minutes over. In 330 eclipse cycles, at 6,585.32 days per cycle, the total days are 2,173,155.6 days. In 5,950 years the moon is in the same position, and positively identifiable, with a total difference in the two calculations of less than 10 hours 3 minutes.

Getting Ready to Explore the Past

With this divinely provided measuring rod there will now be made an exploration of the past. particularly those passages in Holy Writin which certain things are said to have taken place at such and such a time in such and such a moon. The right place to start inquiry is with the moon nearest at hand, say the one which is nearest to the vernal equinox in the year A.D. 1935. This new moon makes its appearance, astronomically speaking, at Los Angeles, Calif., at 4:11 a.m., Wednesday, April 3; on the 75th meridian, near New York and Philadelphia (Eastern Standard Time), at 7:11 a.m. on the same day, and at Jerusalem at 2:35:52 p.m. on the same day.

It is desired to ascertain as accurately as possible just when, astronomically, the new moon rose, in the year 4028 B.C., at the time nearest the vernal equinox. Remembering the accuracy of the eclipse cycle, one could wish to start backward from the moon which exactly corresponds in its movements with the one around the middle of March, 4028 B.C., but to do this it would be necessary to start with moon No. 73590, of February 15, 1923.

		Compared Compared
Actual	Mean	over Slow Fast Slow Fast
Moon Days Date Time	Date Time	29 Ds hr mi hr mi hr mi hr mi
	1912 A.D.	
73453 30 Fr Jan 19 1:39am	Fr Jan 19 3:39pm	1114 5 50 2 00
73454 30 Su Feb 18 8:13am	Su Feb 18 4:23am	985 3 41 3 50
73455 29 Tu Mar 19 12:38am	Mo Mar 18 5:07pm	811 47 7 31
73456 30 We Apr 17 2:09pm	We Apr 17 5:51am	634 210 818
73457 29 Fr May 17 12:43am	Th May 16 6:35pm	490 4 34 6 08
73459 29 Su Juli 15 8:55am	Su Jul 15 7:19am	409 9 55 1 54 405 5 59 4 20
73460 30 Mo Aug 12 10:27pm	Tu Aug 13 8:47am	471 4 53 10 20
73461 29 We Sep 11 6:18am	We Sep 11 9:31pm	592 2 52 15 13
73462 30 Th Oct 10 4:10pm	Fr Oct 11 10:15am	744 20 18 05
73463 29 Sa Nov 9 4:34am	Sa Nov 9 10:59pm	902 2 18 18 25
15464 50 Su Dec 8 7:36pm	mo Dec 911:43am	1042 4 38 16 07
	1013 Å D	
73465 30 Tu Jan 7 12:58pm	We Jan 812:27am	1133 6 09 11 29
73466 30 Th Feb 6 7:51am	Th Feb 6 1:11pm	1141 6 17 5 20
73467 29 Sa Mar 8 2:52am	Sa Mar 8 1 :55am	1045 4 4 1 57
73468 30 Su Apr 6 8:17pm	Su Apr 6 2:39pm	877 1 53 5 38
73469 29 11 May 6 10:54am	Tu May 6 3:23am	692 1 12 7 31 540 2 35 6 10
73471 29 Fr Jul 4 7:35am	Fr Jul 4 4:51am	472 4 52 2 44
73472 29 Sa Aug 2 3:27pm	Sa Aug 2 5:35pm	460 5.04 2.08
73473 30 Su Aug 31 11:07pm	Mo Sep 1 6:19am	499 4 25 7 12
73474 29 Tu Sep 30 7:25am	Tu Sep 30 7:03pm	572 3 12 11 37
73475 30 We Oct 29 4:58pm	Th Get 20 7:47am	672 1 32 14 49
73476 29 Fr Nov 28 4:10am 73477 30 Sa Bee 27 5:28mm	Fr Nov 28 6:31pm	803 34 1621 935 251 15 <i>4</i> 7
75477 50 3a 56527 5.26pm	au 00020 9.15am	355 251 1547
	1914 A.D.	
73478 30 Me Jan 26 9:03am	Mo Jan 26 9:59pm	1048 4 44 12 56
73479 29 We Feb 25 2:31am	We Feb 25 10:43am	1087 5 23 8 12
73480 30 Th Mar 26 8:38pm	Th Mar 26 11:27pm	1032 4 28 2 49
73482 29 Mn May 25 5:03am	Sa Apr 20 12:11pm Sa May 01 10:55am	913 2 29 1 39 779 15 4 09
73483 30 Tu Jun 23 6:02pm	Tu Jun 23 1:39pm	665 1 39 4 23
73484 29 Th Jul 23 5:07am	Th Jul 23 2:23am	588 2 56 2 44
73485 30 Fr Aug 21 2:55pm	Fr Aug 21 3:07pm	547 337 12
73486 29 Su Sep 20 12:02am	Su Sep 20 3:51am	540 344 349
73487 29 Mo Uct 19 9:02am	Mo Det 19 4:35pm	568 316 733
73489 29 Th Dec 17 5:04am	Th Dec 17 6:030m	727 37 12.59
	1915 A.D.	
73490 30 Fr Jan 15 5:11pm	Sa Jan 16 6:47am	829 1 05 13 36
73491 29 Su Feb 14 7:00am	Su Feb 14 7:31pm	911 2 27 12 31
73493 30 Wa Anr 14 2:04nm	We Apr 14 8:59nm	956 3 12 6 55
73494 29 Fr May 14 6:00am	Fr May 14 9:43am	926 2 42 3 43
73495 30 Sa Jun 12 9:26pm	Sa Jun 12 10:27pm	874 1 50 1 01
73496 30 Mo Jul 12 12:00 nm	Mo Jui 12 11:11am	801 37 49
73497 29 We Aug 11 1:21am	Tu Aug 10 11:55pm	720 44 1 26
73498 30 in Sep 9 1:22pm	10 Sep 9 12:599m	610 234 112
73500 29 Su Nov 7 10:21am	Su Nov 7 2:07pm	611 233 346
73501 30 Mo Dec 6 8:32pm	Tu Dec 7 2:51am	642 202 619
	1916 A.D.	
73502 29 We Jan 5 7:14am	We Jan 5 3:35pm	680 1 24 8 21
73504 29 Sa Mar 4 6-26mm	rr reg 4 4:19am Sa Mar 4 5:03am	744 20 10 27
73505 30 Su Abr 2 6:50nm	Mo Apr 3 5:47am	783 24 10 57
73506 29 Tu May 2 7:58am	Tu May 2 6:31pm	848 1 24 10 33
73507 30 We May 31 10:06pm	Th Jan 1 7:15am	905 2 22 9 09
73508 30 Fr Jun 30 1:12pm	Fr Jun 30 7:59pm	932 2 48 6 47
73509 29 Su Jul 30 4:44am	Su Jul 30 8:43am	909 2 25 3 59
73511 29 We Sen 27 10:03am	We Sen 27 10-110m	783 19 DB
73512 30 Th Oct 26 11:06pm	Th Oct 26 10:55am	733 31 11
73513 29 Sa Nov 25 11:19am	Sa Nov 25 11:39am	701 1 03 20
73514 30 Su Dec 24 11:00pm	Mo Dac 25 12:23am	669 135 123
72515 00 Tr lan 03 10:00	1917 A.D.	600 0.1% 0.50
73516 30 We Feb 21 & 38am	Th Feb 22 1:07pm	596 249 E12
73517 29 Fr Mar 23 6:34am	Fr Mar 23 2:35am	596 248 801
73518 29 Sa Apr 21 4:30pm	Su Apr 22 3:19am	645 1 59 10 49
73519 30 Su May 21 3:15am	Mo May 21 4:03pm	736 28 12 48
73520 30 Tu Jun 19 3:31pm	We Jun 20 4:47am	838 1 14 13 16
73522 29 In Jul 19 5:29am 73522 30 Fr Aug 17 8:50am	In JUL19 5:31pm Sa Aun 12 6:15cm	921 2 37 12 02
73523 30 Su Sen 16 12:56nm	Si Sep 16 6:59nm	974 3 30 6 03
73524 29 Tu Oct 16 5:10am	Tu Oct 16 7:43am	947 3 03 2 33
73525 30 We Nov 14 8:57pm	We Nov 14 8:27 pm	889 2 05 30
73526 30 Fr Dat 14 11:46am	Fr Dec 14 9:11am	795 31 2 35

All things considered, it seems best to start with the moon nearest the present (moon No. 73740; April 3, 1935), but to take advantage of the eclipse cycle data, and thus start three hours earlier than moon No. 73740 indicates. Comparing the records of these two moons we find that No. 73590 was 10 hours 35 minutes ahead of the mean, while No. 73740 was but 7 hours 35 minutes ahead of it; the difference is 3 hours. Therefore the start is made at Jerusalem at Wednesday, April 3, 1935 A.D., at 11:35:52 a.m. (instead of 2:35:52 p.m. on the same day), so that the answer when obtained will be as nearly exact as possible. Any date in the remote past may now be sought with confidence.

Method of Calculating Lunations

Problem: Find the date of lunation nearest the autumnal equinox of the year 4129 B.C. Answer: $6,062\frac{1}{2}$ years from the above starting point is October 2, 4129 B.C., at 11:35:52 p.m. In 6,0621/2 years there are at least $6,0621/2 \times 365$ normal days, which are 2,212,8121/2 days; in the 60 unbroken centuries, counting 24 leap years to each century, there are 1,440 more days; in the fragment of the 42d century B.C. there were 7 leap days; in the portion of a century in which this generation now lives there have been 8 leap days; there were also 14 so-called quadricentesimal leap years (being the years B.C. 4000, 3600, 3200, 2800, 2400, 2000, 1600, 800, 400, 1, and A.D. 400, 800, 1200, and 1600, but not the year 1200 B.C.). Total leap days, 1,469. Total days for 6,0621/2 years, 2,214,2811/2.

There are approximately 12.3682 lunations each year. In the 6,0621/2 years (multiplying) the correct number is found to be 74,983 lunations. In a lunation there are 2,551,442.864976 seconds; in 74,983 there are 191,314,840,344.4-95408, which at 604,800 seconds to the week, 86,400 to the day, 3,600 to the hour, and 60 to the minute, resolves into 316,327 weeks 3 days 3 hours 12 minutes 24.495408 seconds.

The starting point having been on a Wednesday (April 3, 1935) at 11:35:52 a.m., the time of the lunation in 4129 B.C. is 3 days 3 hours 12 minutes 24.495408 seconds earlier in the week than Wednesday, and is therefore on Sunday at 8:23:27.504592 a.m. In these problems the decimal fractions are preserved and carried along, as they afford protection against errors and provide methods of checking results.

As to the day of the month: In the 6,0621/2 years the total days were found to be 2,214,-

Actual Mean Moon Days Date Time Date Tin	Compared Compared Mins. with next with Mean over Slow Fast Slow Fast 8 29 Ds hr mi hr mi hr mi hr mi	Actual Mean Moon Days Date Time	Compared Compared Mins, with next with Mean over Slow Fast Slow Fast 29 Ds hr mi hr mi hr mi hr mi
1918 A.D. 73527 29 Su Jan 13 1:01am Sa Jan 12 9:2 73528 29 Mo Feb 11 12:30m Mo Feb 11:10: 70 73529 30 Tu Mar 12 10:17pm Tu Mar 12 11:2 73530 29 Th Apr 11 6:59am Th Apr 11 2:17 73531 30 Fr May 10 3:26pm Sa May 11 2:2 73532 29 Su Jun 9 12:28am Su Jun 9 1:3 73533 29 Mo Jul 8 10:47am Tu Jul 9 2:3 73534 30 Tu Aug 6 10:55pm We Aug 7 3:7 73535 30 Th Sep 5 1:09m Fr Sep 6 3:2 73535 30 Tu Sep 5 5:30am Sa Oct 5 4:3 73537 30 Su Nov 3 11:27pm Mo Nov 4 5:3 73538 30 Tu Dec 3 5:44pm Tu Dec 3 5:5	Spin 689 1 15 3 05 Jam 587 2 57 1 51 Spin 522 4 02 1 06 Jam 542 3 42 9 25 Jam 542 3 42 9 25 Jam 542 36 15 32 Jam 728 36 15 32 Jam 854 1 30 16 6 08 Jam 931 3 37 14 38 Lpm 1077 5 13 11 01 Jam 1097 5 33 5 48 Dpm 1025 4 21 15	1924 A.D. 73601 30 Su Jan 7 4:Iam 73602 29 Tu Feb 5 4:03am Tu Feb 5 4:55pm 73603 30 We Mar 5 6:23pm Th Mar 6 5:39am 73604 30 Fr Apr 4 9:42am Fr Apr 4 6:23pm 73605 30 Mo Jun 2 4:55pm So May 7:057am 73606 30 Mo Jun 2 4:55pm Mo Jun 2 7:51pm 73607 29 We Jul 2 8:35am 73608 30 Th Jul 2 8:35am 73608 30 Th Jul 11 10:07pm Th Jul 3 9:19pm 73610 30 Su Stp Stp 28 10:47pm 73611	$\begin{array}{ccccccc} 770 & 06 & 1258 \\ 860 & 136 & 1252 \\ 919 & 235 & 1116 \\ 943 & 259 & 841 \\ 534 & 250 & 542 \\ 901 & 217 & 252 \\ 847 & 123 & 35 \\ 775 & 11 & 48 \\ 699 & 105 & 59 \\ 641 & 203 & 06 \\ 619 & 225 & 209 \\ 630 & 214 & 434 \\ 659 & 145 & 648 \\ \end{array}$
1919 A.D. 73539 30 Th Jan 2 62 73540 29 Sa Feb 1 132am Fr Jan 3 73540 29 Sa Feb 1 132am Fr Jan 3 7 73541 29 Su Mar 2 136pm Su Mar 2 8:3 73542 30 Mo Mar 2 136pm Wo Mar 2 8:3 73542 30 Mo Mar 2 3:37pm Th May 29 10:2 73544 29 Wa Apr 2 11:18pm Sa Jui 28 11:1 73544 29 Su Jui 27 7:46am Su Jui 28 11:1 73543 30 Fr Jun 25 6:02pm Tu Aug 26 12:2 73548 29 We Sep 24 6:59am Th	Bam 883 159 4 06 Opm 724 40 6 05 523 Spm 594 2 50 5 23 505 4 19 2 35 Jam 505 4 19 2 35 503 6 45 Jam 462 5 02 1 44 Jam 503 4 16 1 49 Jam 662 2 28 26 5 5 Jam 906 3 22 18 33 Jam 966 3 22 18 20 Jam 1120 5 56 1 4 38 Jam 1120 5 56 1 4 38 Jam 1125 548 2 11	1925 A.D. 73614 30 Sa Jan 24 5:10pm Su Jan 25 1:43am 73614 30 Sa Jan 24 5:10pm Su Jan 25 1:43am 73615 29 Mo Feb 23 4:37am Mo Feb 23 2:27pm 73617 29 Th Apr 23 4:53am Th Apr 23 3:55pm 73618 30 Fr May 22 6:13pm Sa May 23 4:32am 73619 30 Su Jan 21 8:42am Su Jan 21 5:23pm 73621 30 We Aug 13 3:40pm We Aug 13 6:51pm 73622 29 Fr Seg 137am Fr Seg 137 8:35am 73622 29 Fr Seg 137am Sa 6:37am Fr Seg 33m 73623 0 Sa 0:17 8:31pm Sa 0:017 8:31pm 7362	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1920 A.D. 73552 30 We Jan 21 7:52am We Jan 21 4:1 73553 29 Fr Feb 20 12:00am Th Feb 19 4:5 73554 30 Sa Mar 20 1:21Dm Sa Mar 20 5:4 73555 29 Mo Apr 19 12:08am Su Apr 18 6:2 73556 29 Tu May 18 8:50am Tu May 18 7:1 73557 29 We Jun 16 4:06pm We Jun 16 7:5 73558 30 Th Jul 15 10:50pm Fr Jul 16 8:2 73550 29 Sa Aug 14 6:03pm Tu May 18 7:1 73556 30 Su Sep 12 3:17pm Mo Sep 13 10:2 73561 29 Tu 0ct 12 3:15am Tu 0ct 12 12:15 73562 30 We Nov 10 6:30pm Th Nov 11 11:2 73563 30 Fr Dec 10 12:22pm Sa Dec 11 12:2	Sam 968 3 24 3 37 Opm 801 37 7 01 Sam 647 1 57 7 33 Opm 522 4 02 5 41 Jam 436 5 28 1 39 Opm 404 6 C0 3 49 Sam 439 5 25 9 49 Jam 436 1 3 56 1 3 56 Jam 718 46 1 3 50 Jpm 915 2 31 1 3 56 Sam 1079 5 15 17 15 Sam 1079 5 15 17 15 Sam 163 6 39 11 50	1926 A.U. 73626 29 Th Jan 14 9:00am Th Jan 14 10:31am 73627 30 Fr Feb 12 7:45pm Fr Feb 12 11:15pm 73628 23 Su Mar 14 5:45am Su Mar 14 11:55am 73629 30 Mo Apr 12 3:21pm Tu Apr 13 12:43am 73630 29 Wo May 12 1:00am We May 12 1:27pm 73631 0 Th Jul 10 12:33am Fr Jul 10 2:55pm 73633 0 Tu Aug 8 4:14pm Mo Aug 9 3:39am 73634 30 Tu Stp 7 7:23bm Th Or 5:55pm 73635 30 Fr <nov 5<="" td=""> 4:50pm Fr<nov 5<="" td=""> 5:51pm 73635 30 Fr<nov 5<="" td=""> 4:50pm Fr<nov 5<="" td=""> 5:51pm 73636 30 Fr<nov 5<="" td=""> 4:50pm Fr<nov 5<="" td=""></nov></nov></nov></nov></nov></nov>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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Actual Me Moon Days Date Time Date	Compared Mins. with next ean over Slow Fast Time 29 Ds hr mi hr mi	Compared with Mean Slow Fast hr mi hr mi	Moon Days D	Actual ats Time	Mean Date Time	Compared Compared Mins. with next with Mean over Slow Fast Slow Fast 29 Ds hr miltrmilhr miltrmi
1930 A 73676 30 We Jan 29 S:32pm We Jan 29 73677 30 Fr Feb 28 3:55pm Fr Feb 22 73678 29 Su Mar 30 8:11am Su Mar 30 73679 30 Mo Apr 28 9:32pm No Apr 28 73630 29 We May 28 8:02am We May 22 73631 29 We May 28 8:02am We May 22 73632 30 Fr Jul 25 11:07pm Sa Jul 20 73632 30 Fr Jul 25 12:07am Ta Sep 23 73635 29 Su Aug 24 6:02am Su Aug 24 73635 29 Wo 0t 22 12:13am We 0et 22 73685 29 Wo 0t 20 12:13am Fr 0t 20 21	h.D. P 11:11pm 1106 5 42 S 11:55am 973 3 29 D 12:33am 802 38 S 12:53am 629 2 15 S 2:07am 420 4 34 S 2:51pm 413 5 49 S 3:35am 415 5 49 S 5:03am 606 2 38 S 5:03am 606 2 38 2 5:77pm 753 11 6 5:31am 903 2 19	1 39 4 03 7 32 8 10 5 55 1 21 4 28 10 17 14 56 17 34 17 45	73750 29 Fr 73751 30 Sa 1 73752 29 Mo F 73753 29 Tu 7 73755 29 Fr 73755 29 Fr 73756 30 Sa 73757 30 Mo 7 73758 30 Tu 3 73759 30 Tu 3 73759 30 Sa 1	Jan 24 9:43am Fr Feb 22 9:07pm Sa Mar 22 6:39am Mo Apr 21 2:58pm Tu May 20 11:00pm Th Jal 13 5:44pm Sa Aug 17 5:46am Mo Sep 15 8:05pm Wo Cet 15 12:45pm Fr Nor 14 7:07am Sa	1936 A.D. Jan 24 5:27ai Feb 22 6:11pi Mar 23 6:55ai Apr 21 7:39pi May 21 8:23ai Jun 19 9:57pi Jul 19 9:51ai Aug 17 10:35pi Sep 16 11:19ai Oct 16 12:03ai Nay 14 32:47pi	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
73687 29 Sa Dec 20 3:49am Sa Dec 20	7:15pm 1032 4 28	15 26	73761 29 Mo	Dee 14 1:50am Mo	Dec 14 1:31a	n 1032 4 28 19
1931 A 73688 30 Su Jan 18 9:01pm Mo Jan 19	l.D. 9 7:59am 1115 5 51	10 58		CALCUL	ATION TA	BLES
73639 30 Tu Feb 17 3:36pm Tu Feb 17 73690 30 Th Mar 19 10:16pm Th Mar 19	7 8:43pm 1120 5 56 9 9:27am 1029 4 25	5 07 49	Seconds in			Seconds in
73691 29 Sa Apr 18 3:25am Fr Apr 17	7 10:11µm 868 1 44	5 14	1 60	54 3,240	1	2 551.442.864976
73693 29 Tu Jon 16 5:27am Mo Jun 15	5 11:39pm 558 3 26	548	2 120	55 3,300	2	5,102,885.729952
73694 29 We Jul 15 2:45pm We Jul 15 73695 30 Th Aug 13 10:52pm Fr Aug 14	512:23pm 487 437 41:07am 479 445	222 215	3 180 4 240	50 3,500 57 3,420	3	7,654,328.594928
73696 29 Sa Sep 12 6:51am Sa Sep 12 73697 30 Sa Bet 11 3:33am Mo Oct 12	2 1:51pm 520 4 04 2 2:35pm 589 2 55	7 00	5 300	58 3,480	4	10,205,771.459904
73698 29 Tu Nov 10 1:20am Tu Nov 10	0 3:19pm 681 1 23	13 59	6 360	59 3,540	5	12,757,214.32488
73699 30 We Dec 912:41pm Th Dec 10	0 4:03am 793 29	15 22	7 420	Seconds in	6	15,308,657.189856
1932 A	1.D.	54 70	8 480 9 540	Hours	7	17,860,100.054832
73700 29 Fr Jan 8 1:54am Fr Jan 8 73701 30 Sa Feb 6 5:10pm Sa Feb 7	7 5:31am 1019 4 15	14 55	10 600	1 3,600	8	20,411,542.919808
73702 30 Mo Mar 7 10:09pm Mo Mar 7 73703 29 We Aur 6 3:46am We Aur 6	7 6:15pm 1057 4 53 6 6:59am 1011 4 07	8 06 3 13	11 660	3 10.800	9	22,962,985.784784
73704 30 Th May 5 8:37pm Th May 5	5 7:43pm 904 2 20	54 3 14	12 720 13 780	4 14,400	10	20,014,428.04970 51.029.857.20052
73706 29 Mo Jul 4 12:45am Su Jul 2	3 9:11pm 632 1 22	2 3 34	14 840	$5\ 18,000$	20	76.543.285.94928
73707 29 Tu Aug 2 12:07pm Tu Aug 2 73708 30 We Aug 31 10:20pm We Aug 31	2 9:55am 613 2 31 1 10:39pm 575 3 09	19	15 900 16 960	7 25,200	40	102.057.714.59904
73709 29 Fr Sep 30 7:55am Fr Sep 30	0 11:23am 566 3 18 0 12:07am 587 2 57	3 23 6 46	$10 \ 500$ 17 1.020	8 28,800	50	127,572,143.2488
73711 29 Mo Nov 28 3:08am Mo Nov 28	3 12:51pm 639 2 05	943	18 1,080	9 32,400 10 36 000	60	153,086,571.89856
73712 30 19 Dec 27 1:47pm We Dec 20	8 1:35am /18 46	11 48	19 1,140	11 39,600	70	178,601,000.54832
1933 A	1.D.	10.24	20 1,200 21 1.260	12 43,200	80	204,115,429.19808
73713 29 11 Jan 26 1.45am 11 Jan 26 73714 30 Fr Feb 24 3:09pm Sa Feb 25	5 3:C3am 876 1 52	12 54	22 1,320	13 46,800 14 50 400	90	$229,\!629,\!857.84784$
73715 29 Su Mar 26 5:45am Su Mar 26 73716 30 No Apr 24 9:03pm Tu Apr 25	5 3:47pm 918 234 5 4:31am 929 245	10 02 7 28	23 1,380	13 54,000	100	255,144,286.4976
73717 30 We May 24 12:32pm We May 24	4 5:15pm 915 2 31 3 5:59pm 801 1 57	4 43 2 12	24 1,440 25 1.500	16 57,600	200	510,288,572.9952
73719 30 Sa Jul 22 6:28pm Sa Jul 2	2 6:43pm 825 1 01	15	26 1,560	17 61,200 18 64 800	300	765,432,859.4928
73720 29 Me Aug 21 8:13am Me Aug 21 73721 30 Tu Sep 19 8:46pm Tu Sep 19	1 7:27am 753 11 9 8:11pm 684 120	. 46 35	27 1,620	19 68,400	400 500	1,020,077,140.9904
73722 29 Th Oct 19 8:10am Th Oct 19 73723 30 Fr Nov 17 6:49am Fr Nov 17	9 8:55am 639 2.05 7 9:39nm 629 2.15	45	28 1,80 29 1.740	20 72,000	600	1,210,121,402,400
73724 29 Su Dec 17 5:18am Su Dec 1	7 10:23am 644 2 00	5 05	30 1,800	21 75,600	700	1,786.010.005.4832
1934 A	A.D.		31 1,860	23 82.800	800	2.041.154.291.9808
73725 30 Me Jan 15 4:02pm Mo Jan 12	5 11:07pm 665 138	7 05	33 1,920	,	900	2,296,298,578.4784
73727 30 Th Mar 15 2:33pm Fr Mar 1	6 12:35am 709 55	10 02	34 2,040	Seconds in	1,000	2,551,442,864.976
73728 29 Sa Apr 14 2:22am Sa Apr 14 73729 30 Su May 13 2:55pm Mo May 14	4 1:19pm 753 11 4 2:03am 822 58	10 57	35 2,100	1 86.400	2,000	5,102,885,729.952
73730 29 Tu Jun 12 4:37am Tu Jun 1: 73731 30 Wa Jul 11 7:31am Th Jul 1	2 2:47pm 894 2 10 2 3:31am 940 2 56	10.10	37 2,220	2 172,800	3,000	7,654,328,594.928
73732 30 Fr Aug 10 11:11am Fr Aug 10	0 4:15pm 934 2 50	504	38 2,280	3 259,200	4,000	10,205,771,459.904
73733 29 Su Sep 9 2:45am Su Sep 9 73734 30 Mo Oct 8 5:30pm Mo Oct 8	9 4:59am 885 201 8 5:43pm 819 55	2 14 13	39 2,340	$\frac{4}{5}$ $\frac{345,600}{432,000}$	5,000	12,757,214,324.88
73735 29 We Nov 7 7:09am We Nov 7 73736 30 Th Dec 6 7:50pm Th Dec 6	7 6:27am 761 03 6 7:11pm 715 49	39 39	40 2,400 41 2,460	6 518,400	7 000	10,000,007,189.800
			42 2,520	~ • •	8.000	20.411.542.919.808
1935 A 73737 29 Sa Jan 5 7:45am Sa Jan 1	1.0. 5 7:55am 667 137	10	43 2,580	Seconds in	9.000	22,962,985.784.784
73738 30 Su Feb 3 6:52pm Su Feb 3	3 8:39pm 613 231	147	45 2,700	1 604,800	10,000	25,514,428,649.76
73740 30 We Apr 3 2:36pm We Apr .	3 10:07pm 565 3 19	7 31	46 2,760	2 1,209,600	20,000	51,028,857,299.52
73741 29 Fr May 312:01am Fr May 73742 29 Sa Jun 110:17am Sa Jun 1	510:51am 616 2.28 1 11:35pm 712 52	10 50 13 18	47 2,820	3 1,814,400	30,000	76,543,285,949.28
73743 30 Su Jun 30 10:09pm Mo Jul 3 73744 30 Tu Jul 30 11:57am We Jul 3	1 12:19pm 828 1 04 1 1:03am 928 2 44	14 10	49 2,940	5 3,024,000	40,000	102,057,714,599.04
73745 29 Th Aug 29 3:25am Th Aug 2	9 1:47pm 989 3 45	10 22	50 3,000	6 3,628,800	50,000	127,572,143,248.8
73747 30 Sr Cot 27 12:40pm Sa Sep 2 73747 30 Sr Cot 27 12:40pm Su Cot 2	o 2:51am 1006 4 02 7 3:15pm 981 3 37	6 37 2 35	$51 \ 3,060$	7 4,233,600	60,000	153,086,571,898.56
73748 29 Tu Nov 26 5:01am Tu Nov 20 73749 30 We Dec 25 8:14pm We Dec 25	6 3:59am 913 2 29 5 4:43pm 809 45	1 02 3 31	53 3,180	9 5,443,200	70,000	178,601,000,548.32

CHART FOR CHANGING OVER THE DAYS AND HOURS OF THE GREGORIAN Calendar to the days and hours of the calendar of jehovah god



2811/2. In the 74,983 lunations there were 2.214. 292 days, or 101/2 more. The correct day of the month is therefore September 22, which is 10^{12} days back from October 2, at 11:35:52 p.m. The full answer is that in the autumn of 4129 B.C. the new moon rose at, Jerusalem time, 8:23:27.504592 a.m., Sunday, September 22.

"So Teach Us to Number Our Days"

In the 90th Psalm, verse 12, in his prayer there recorded, Moses, the man of God, includes a petition, "Teach us to number our days." Surely the days of God are precious enough that once a year their number may be taken into account. Their grand total to date is considerably less than two and a quarter millions. a figure which, in these days, stated in dollars, is, in some quarters, considered small.

The year which begins in the spring of the year 1935 A.D. and ends in the spring of the year 1936 A.D. is the Year of Ransom (or, Y.R.) 1903. The year which began in the spring of the year 4028 B.C., and ended in the spring of 4027 B.C., was the year Before Ransom (or, B.R.) 4060.

Dates in March-December (inclusive) of any B.C. year are transformed into B.R. dates by the addition of 32 years to the B.C. date. Dates in January and February of any B.C. year are transformed into B.R. dates by the addition of 33 years to the B.C. date.

From the spring of 4028 B.C. to the spring of A.D.1935 is (4028+1935-1=) 5,962 years. From the spring of *Before Ransom 4060* to the *Year* of Ransom 1903 is (4060+1903-1=) 5,962 years.

The vernal equinoxes should be numbered, year by year. They come but once a year. Counting as No. 0 the one that occurred in the spring of the year *Before Ransom 4060* (4028 B.C.) the total number to and including the one in the spring of the *Year of Ransom 1903* (A.D. 1935) is but 5,962. Surely it is not a laborious task to keep annual record of these gifts of God.

The Calendar of Jehovah God

The calendar of Jehovah God first appeared in the Year Book of Jehovah's witnesses for the year 1935, page 168. The page which there appeared is here reproduced, with some slight alterations found advisable.

$\mathrm{C}\,\mathrm{A}\,\mathrm{L}\,\mathrm{E}\,\mathrm{N}\,\mathrm{D}\,\mathrm{A}\,\mathrm{R}$

Jehovah's Year of Ransom 1903

	• • •	Lightday	Heavenday	Barthday	Starday	* Lifeday	* * Mansday	* Godsday	•	Lightday	Heavenday	Earthday	Starday	Lifeday	Mansday	Godsday
	Redemption First Month (Exodus 12:2) No. 73740	$* \\ 3 \\ 10 \\ 17 \\ 24$	* 4 11 18 25	$5 \\ 12 \\ 19 \\ 26$	* 6 13 20 27	* 7 14 21 28	* 8 15 22 29	$egin{array}{c} * & 2 \\ & 9 \\ 16 \\ 23 \end{array}$	King Seventh Month No. 73746	1 8 15 22 29	2 9 16 23 30	3 10 17 24	$4 \\ 11 \\ 18 \\ 25$	5 12 19 26	6 13 20 27	7 14 21 28
	Life Second Month No. 73741	$2 \\ 9 \\ 16 \\ 23 \\ 30$	$3 \\ 10 \\ 17 \\ 24$	$4 \\ 11 \\ 18 \\ 25$	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	Peace Eighth Month No. 73747	$6 \\ 13 \\ 20 \\ 27 \\ 13 \\ 20 \\ 27 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	7 14 21 28	1 8 15 22 29	$2 \\ 9 \\ 16 \\ 23 \\ 30$	$3 \\ 10 \\ 17 \\ 24$	4 11 18 25	$5 \\ 12 \\ 19 \\ 26$
	Visitment Third Month No. 73742	$7 \\ 14 \\ 21 \\ 28$	1 8 15 22 29	$2 \\ 9 \\ 16 \\ 23$	$3 \\ 10 \\ 17 \\ 24$	4 11 18 25	5 12 19 26	$6 \\ 13 \\ 20 \\ 27$	Order Ninth Month No. 73748	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	$ \begin{array}{c} 1 \\ 8 \\ 15 \\ 22 \\ 29 \end{array} $	$2 \\ 9 \\ 16 \\ 23$	$3 \\ 10 \\ 17 \\ 24$
	Freedom Fourth Month No. 73743	$\begin{array}{c} 6 \\ 13 \\ 20 \\ 27 \end{array}$	7 14 21 28	1 8 15 22 29	2 9 16 23 30	$3 \\ 10 \\ 17 \\ 24$	$4 \\ 11 \\ 18 \\ 25 \\ .$	$5 \\ 12 \\ 19 \\ 26$	Logos Tenth Month No. 73749	3 10 17 24	$4 \\ 11 \\ 18 \\ 25$	$5 \\ 12 \\ 19 \\ 26$	6 13 20 27	7 14 21 28	$ \begin{array}{c} 1 \\ 8 \\ 15 \\ 22 \\ 29 \end{array} $	$2 \\ 9 \\ 16 \\ 23 \\ 30$
••••	Vindication Fifth Month No. 73744	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	$ \begin{array}{c} 1 \\ 8 \\ 15 \\ 22 \\ 29 \\ \end{array} $	$2 \\ 9 \\ 16 \\ 23$	$3 \\ 10 \\ 17 \\ 24$	Jehovah Eleventh Month No. 73750	1 8 15 22 29	$2 \\ 9 \\ 16 \\ 23$	$3 \\ 10 \\ 17 \\ 24$	4 11 18 25	$5 \\ 12 \\ 19 \\ 26$	6 13 20 27	7 14 21 28
	Hope Sixth Month No. 73745	${ \begin{array}{c} 3 \\ 10 \\ 17 \\ 24 \end{array} }$	$\frac{4}{11}$ 18 25	$5 \\ 12 \\ 19 \\ 26$	6 13 20 27	7 14 21 28	$1\\8\\15\\22\\29$	$2 \\ 9 \\ 16 \\ 23 \\ 30$	Temple Twelfth Month No. 73751	$7 \\ 14 \\ 21 \\ 28 $	$1 \\ 15 \\ 22 \\ 29$	$2 \\ 9 \\ 16 \\ 23 \\ 30$	$3 \\ 10 \\ 17 \\ 24$	4 11 18 25	$5\\12\\19\\26$	6 13 20 27*

† This day, corresponding to Friday, April 5, 1935, is Edenic day No. 2177588, completing 311,084 weeks from the creation of Adam.

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* Vernal equinox No. 5963, which is the last day of Jehovah's Year of Ransom 1903, occurs on this day.

‡ Jehovah's Year of Ransom 1904 begins with this day, corresponding to Sunday, March 22, 1936. It is Edenic day No. 2177940.

NOTE: Lifeday, Redemption 14, 1903 Y.R., really begins at 6:00 p.m. of Wednesday, April 17, 1935 A.D., and was so shown in the calendar as originally published in the 1935 Year Book.

Lightday, the first day of the week, is commemorative of the great gift of light in creative epoch No. 1. (Genesis 1:3) For a full account of the work of this and the other creative days, see the Watch Tower publication *Creation*. Concerning this work a gentleman in Paterson, N.J., whose brother is a clergyman, said, "When I obtained possession of this book I hated God; when I had read it I loved Him."

Heavenday, second day of the week, is commemorative of the gift of an atmosphere, necessary to sustain the life of breathing creatures.— Genesis 1:8.

Earthday, third day of the week, is commemorative of the making of the beautiful home which God made for man and other breathing creatures.—Genesis 1:10-12.

Starday, fourth day of the week, is commemorative of the unfoldment of the magnificent pageantry of the heavens, suns, moons and stars inconceivable in number and beauty; the matchless spectacle of the universe. (Genesis 1:16) "Praise ye him, sun and moon: praise him, all ye stars of light."—Psalm 148:3.

Lifeday, fifth day of the week, will ever be commemorative of the great epoch in which the Creator first bestowed upon earthly creatures the unspeakable boon of life.—Genesis 1: 20-22.

Mansday, sixth day of the week, will ever remind man of the gracious act of God in making the human creature and will remind him of the time when he was not in existence. (Genesis 1:26,27) It was not at all necessary to the happiness of God that such a creature as man should ever have lived.

Godsday, seventh day of the week, reminds man for ever of the source of all his joys and hopes and the eternal resting place of his love. --Genesis 2:2, 3.

The hours of the day, as God arranged them, are six hours ahead of those days which man starts at midnight (and by which he rudely assumes to rend each beautiful night in twain). The hours of night are 12; the hours of daylight are 12. The first hour of the 24-hour period begins with the hour 12:00 D. (or, Day), and ends at 1:00 N. (or, Night). The sixth hour ends at midnight, 6:00 N. The twelfth hour is the last hour of the night, and there, 12:00 N., begins the daylight period of the day. It stands midway between midnight and the succeeding noon, which point, 6:00 D., is properly called the close of the 6th hour of the day. The 9th hour of the day ends at 9:00 D., commonly designated 3:00 p.m. The day ends with the 12th hour, at 12:00 D.

"Man Became a Living Soul"

"The secret things belong unto [Jehovah] our God: but those things which are revealed belong unto us, and to our children for ever." (Deuteronomy 29:29) None may say at just what time "Jehovah God formed man of the dust of the ground, and breathed into his nostrils the breath of life; and man became a living soul" (Genesis 2:7, A.R.V.), but this series of articles contains the strong evidence that it was in the spring of the year 4060 Before Ransom (4028 B.C.).

The evidence has already been presented that the vernal equinox that year was at 9:41 D., Lifeday, Temple 28, 4060 B.R. (3:41 p.m., Thursday, March 21, 4028 B.C.). The new moon appeared about 29 hours subsequently. 2:55 N., Godsday, Temple 30, 4060 B.R. (S:55 p.m., Friday, March 22, 4028 B.C.). If it subsequently appears that Jesus, the Second Adam. was born into the world about the ninth hour of the night (heretofore called three o'clock in the morning) would it be unreasonable to reverently hold the thought that the first Adam was completed about the same hour? That he was created sometime before sundown of that day certainly seems to be suggested by the reference to the "sixth day" in Genesis 1:31. These two events. equinox and new moon, rarely come so close together as they did on this occasion, and they come in the order that one would expect, if the creation of man occurred midway between them.

Concealed from clear vision behind the mists, the first moon shining over Adam was moon No. 0, month Redemption, and it may have been that even before that first month was ended he had need of the hope contained in God's mysterious statement to the great adversary, "I will put enmity between thee and the woman, and between thy seed and her seed; it shall bruise thy head, and thou shalt bruise his heel." (Genesis 3:15) There is no record as to the number of the days of innocence and happiness in Eden.

Using the Six-Thousand-Year Calendar

Glance now at the six-thousand year calendar. Note the letter "H" in the year 3793 B.C. (3825 B.R., 235th vernal equinox). The year is the year of the birth of Enos, Adam's grandson. The Scriptures say that "then began men to call themselves by the name of Jehovah". (Genesis 4:26, margin) Then, while Adam had yet to live 695 years, hypocrisy had already begun in the earth. Adam at this time was but 235 years of age.

Glance again at the six-thousand-year calendar and note the letter "M" in the year 3341 B.C. (3373 B.R., 687th vernal equinox). Adam at this time was 687 years of age, but still had 243 years before he finished his course. Methuselah was born in this year. It is as certain as anything can be that Methuselah and Adam knew each other intimately for at least two hundred years. What the one knew, the other learned; what God had told the one, Adam, was (one would think) certainly told by him to the other, Methuselah. There is but one link necessary to connect Methuselah with Abraham; he (Shem) was contemporaneous with them both.

Using the six-thousand-year calendar again, note the "A" in the year 3098 B.C. (3130 B.R., 930th vernal equinox), the time of Adam's death; note the "E" which indicates that the godly Enoch was translated only 57 years later. It would be good to connect all the lettered points by ruled lines, so that explanations of the calendar may be made readily to friends. It will be apparent that Adam had the privilege of living with Enoch 308 years, long enough for them both to learn much.

Note the "S1" in the year 2470 B.C. (2502 B.R., 1558th vernal equinox); this is the year of Shem's birth. From then until the "D" (for the Deluge and Methuselah's death) in the year 2373 B.C. (2405 B.R., 1655th vernal equinox), a period of over 97 years, Shem had abundant opportunities to learn all Methuselah knew.

Referring to the table containing list of "Lunations Ushering in the Years or Periods Which Contain the Most Important Events of History", it shows a new moon rising at 3:21 D., Earthday, Edenic day No. 604846, precursor of God's month No. 20482, 1656th vernal equinox, 2404 B.R. (9:21 a.m., Tuesday, March 26, 2372 B.C.).

But as the account of the Flood is the first place in the Scriptures where months are mentioned, and the question of when and how the months are to be reckoned arises, it is desirable that not only the days of the lunations, but the hours as well, should be determined as accurately as possible. To this end, use is made again of the eclipse cycles.

(To be continued)

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"THIRTY DAY	AS HATH SEPTEMBER "
So begins the old rhyme inter	added to help children remember the num-
ber of days in each calendar	month. But very few people give any
thought to the question of wi	by the months are arranged as they are,
or why they are named the v	way "Christendom" has them. Who fixed
it all up, anyway? and why sh	would the whole world follow the arrange-
ment? What authority is th	nere for it all? Read "THE SECOND
HAND IN THE TIMEPIEC	CE OF GOD", a series of articles begin-
ning in this issue, and you wi	til appreciate why a new calendar should
be adopted by those who would	a honor the Creator.
Incidentally, have you sub-	The Golden Age, 117 Adams St., Brooklyn, N.Y.
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