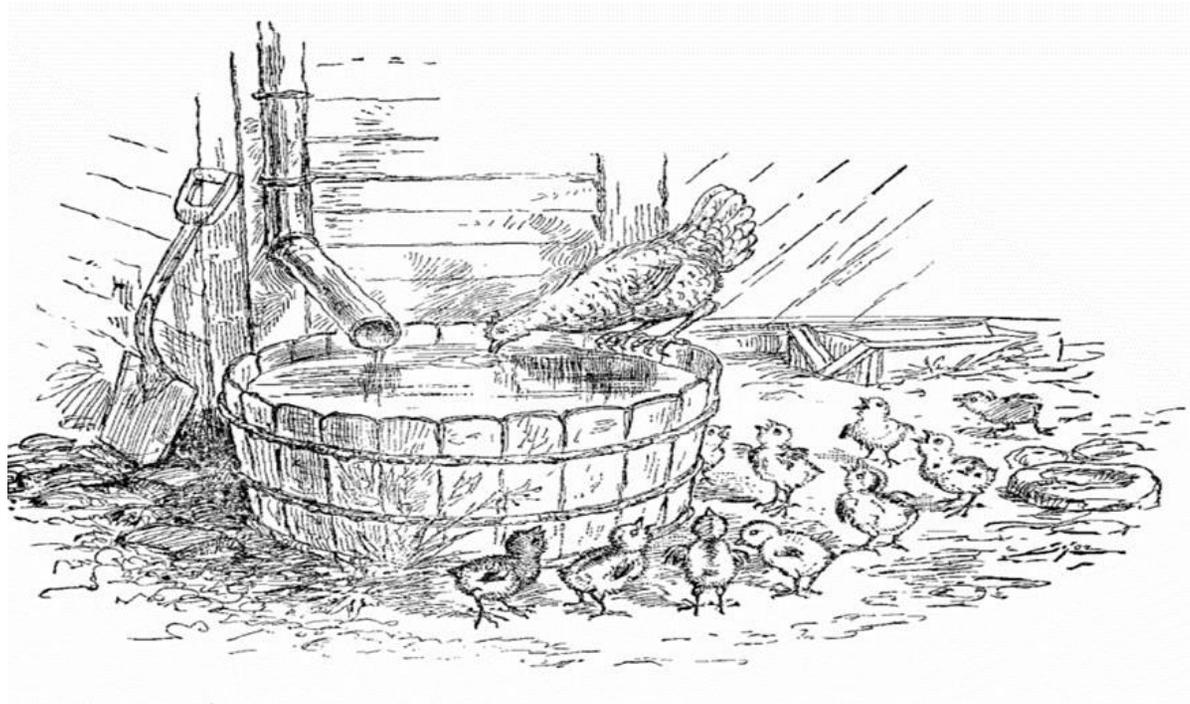


The Bach Biodynamic Research and Planting Calendar

Based on Indications Given by Rudolf Steiner



2022

Welcome to the 2022 edition of the Bach biodynamic research and planting calendar. 2021 year was a very challenging year with regards to conducting research, and also for farming in general due to extreme climactic events that occurred in Western Canada in the summer. Most of the research that I do in the calendar takes place in the months of May, June and July, as these are generally the most favourable months to sow and grow crops due to favourable weather. The bulk of the 2021 calendar research took place in the month of June, and 2021, and June in particular, was very favourable for comparing Rudolf Steiner's planting method with that of Maria Thun. The stark differences in these approaches were discussed at length in the 2021 calendar, which is available as a free download at www.bachbiodynamics.com. Unfortunately, extreme weather during the month of June has rendered most of this research unusable. The month started off with normal temperatures, but on June 10th, we had an overnight frost on my farm located in Princeton, B.C. It is not unprecedented in early June to have frost where I am located, as we are on the east side of the Cascade mountains at an elevation of about 600 metres, but it is unusual. Two weeks after this, an unprecedented heat wave struck British Columbia with catastrophic results. From the frost of June 10th, the temperature soared at the end of June with a peak of 44 degrees Celsius on June 29th (this equates to 111 degrees Fahrenheit). The last sowing trial in June occurred on the 22nd, where carrots and bean seeds were planted on what previous research and indications by Steiner have shown to be an extremely favourable planting time (full moon, perigee and mercury ascending). None of the carrots germinated and only two of the bean seeds germinated during this extreme heat- the seeds were simply cooked in the soil, as daytime temperatures for most of the week following the sowings was above 40 degrees Celsius. On June 30th, the entire town of Lytton, only three hours from our farm, was completely engulfed in flames and burned to the ground in fifteen minutes. Most of the entire province was scorched with forest fires which raged until late September, when cooler weather and rain finally brought this climactic nightmare to an end. This was then followed by catastrophic flooding in British Columbia in November, where one month's rain fell in a twenty-four-hour period, and temperatures again soared and shattered previous records. Our farm was also partially flooded, as the Similkameen river, which runs past our property, rose six feet in 12 hours. Luckily, our farm house has been built to endure flooding, according to building code, and no structures were damaged. Huge areas of farmland in the Vancouver area were severely damaged, and some of the largest highways, which provide vital transportation corridors to not only British Columbia, but all of Canada, were severely damaged from washouts and mudslides in multiple areas. As I write now, we have just finished going through a December cold spell, which saw temperatures in the low negative twenties for about two weeks.

Because of the extremes in weather last June, most of the research trials from 2021 cannot be used, as the weather extremes of that month have introduced a gigantic variable that will have undoubtedly skewed the data. Having said this, I will publish the first trial, which involved lettuce, as this planning occurred in April, with the harvest occurring just prior to the June heatwave. I do have some germination trials that I need to conduct with saved seed from 2021, and plan to use this an opportunity to also compare Steiner/Thun approaches. This will occur in February. As a result of the foregoing, the calendar now does not have research data and commentary for the time being. Results of the indoor trial data I plan to conduct in February will be added when available. Therefore, this year's calendar

January 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Saturn Ascending NH Jan 1-May 31	Jupiter Ascending NH Jan 1-Jul 26	Mars Ascending SH Jan 1-Jan 28	Venus Ascending NH Jan 1-Jan 27	1 Perigee-15:01 Mercury Ascending NH Jan 1-21 Fair planting day NH
2 new moon- 10:36	3	4	5	6	7	8
9	10 apogee-01:29	11	12	13	14 Jan 14-15 Good planting days NH fair SH	15
16	17 full moon- 15:51	18	19	20	21	22 Mercury Ascending SH Jan22-Feb14
23	24	25	26	27	28 Venus Ascending SH Jan 28- Feb 23	29 perigee-22:10 Mars Ascending NH Jan 29-Dec7 Good planting day SH fair NH
30	31 new moon- 22:49					

Notes: _____

should be considered as a work in progress, and will not be completed until early March. What is now available is the planting calendar with the corresponding favourable planting times for 2022, according to the Steiner method. All times in this calendar are in PST. Below I have simply copied the introduction from last year's calendar regarding the rationale of this calendar. I have also included the dates for ashing for 2022.

If you have any comments or questions, I can be contacted at jbbach363@gmail.com.

Thank-you,

John Bach

Introduction

Welcome to the 2021 edition of the Bach Biodynamic Research and Planting Calendar. The planting indications given in this calendar are based on information given by Rudolf Steiner in 1923 in a course of lectures available in the book [The Agricultural Course – The Birth of the Biodynamic Movement](#). This book is still in print and widely available. This series of lectures can also be read for free online at www.rudolfsteinerarchive.org. Unlike other biodynamic calendars, this calendar is based on indications and methodology outlined by Rudolf Steiner. All other biodynamic calendars that I am aware of rely on the methodology given by Maria Thun developed in the 1950s. The Thun method and the Steiner method of sowing differ in several fundamental respects, and as such are at variance with one another. A more detailed discussion of this variance will be discussed below. The primary objective of this calendar has been to test these two methods using a rigorous research methodology. Surprisingly, the research on these planting methods has been, over the years, quite sparse, and where research is available, exact planting dates and times are often not furnished. Knowing the dates on which seeds are sown is essential in evaluating planting results through peer review. Over the last ten years the research in this calendar has shown conclusively that the Steiner method of sowing seeds provides better germination, larger plants and higher yields. Conversely, the Thun method has not demonstrated any correlation with seed germination, plant growth and yield. Research that I have conducted in past calendars dating back at 2013 can be viewed on my website at www.bachbiodynamic.com. From this previous research, and based on Steiner's indications, the following times have been found to be favourable for sowing above and below ground crops:

-two days before a full moon

-perigee, when the moon is closest to the earth

February 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10 apogee-18:40	11	12
13	14 Feb 14-15 Good planting days NH and SH	15 Mercury Ascending NH Feb 15-May 5	16 full moon- 09:00	17	18	19
20	21	22	23	24 Venus Ascending NH Feb 24-Jul 22	25	26 perigee-14:19 Good planting day NH fair SH
27	28 Sun in mid Aquarius- ash winged insects afternoon PST					

Notes: _____

-ascending phases of the inner planets Mercury and Venus (annuals, biennials)

- ascending phases of the outer planets for trees (longer lived plants with bark)

All of these dates are indicated in the calendar. Combinations of these influences have been found to increase the germination, growth and yields of plants. The ascending phases of the planets are given according to their position in the Northern and Southern hemisphere. A planet is considered to be ascending in the Northern hemisphere when it is moving in a northerly direction in relation to the ecliptic, regardless of its location in the either of the hemispheres. Conversely, a planet is considered to be in an ascending phase in the Southern hemisphere if it is moving in a southerly direction in relation to the ecliptic, regardless of its position in either of the hemispheres. Therefore, if a planet is in an ascending phase in the Northern hemisphere, it will be in descending phase in the Southern hemisphere, and vice versa. Rudolf Steiner's indications regarding the planets and their influence on plant growth are here quoted, taken from the

Agricultural lectures of 1923 (all of the following quotes are taken from the 2004 edition of "The Agricultural Course, The Birth of the Biodynamic Method". Eight lectures given in Koberwitz, Silesia, between 7 and 16 June 1924. Rudolf Steiner Press):

Saturn goes slowly round [the sun], in thirty years.... Sometimes it shines directly on to a given spot on the Earth. But it can also work through the Earth upon this portion of the Earth's surface. In either case the intensity with which the Saturn-forces are able to approach the plant life of the Earth is dependent on the warmth-conditions of the air. When the air is cold, they cannot approach; when the air is warm they can...if you wish to plant a coniferous forest, where the Saturn forces play so great a part, the result will be different if you plant in a so-called ascending period of Saturn, or in some other period... Assume for instance that we take firewood, wood that is derived from trees which were planted in the Earth without understanding of the cosmic rhythms. It will not provide the same heart-giving warmth as firewood from trees that were planted intelligently (p.27).

From the foregoing, the best time to plant a coniferous forest would be in the summer when Saturn is in an ascending phase in the area where the trees are to be planted. The affect of Saturn can radiate through the Earth, regardless of whether Saturn is above or below the ecliptic, so long as it is in an ascending phase. The same can be said of all the planets that are considered in biodynamic agriculture (Mercury, Venus, Mars, Jupiter and Saturn). The outer planets affect the growth of longer-lived plants, those with rind or bark- trees for the most part. Steiner indicates that Mars, for example, affects the growth of oak trees, and as because of this, they should be planted in an ascending phase of Mars.

The inner planets Mercury and Venus affect the growth of shorter-lived plants, annuals and biennials, and perhaps shrubs like blueberries and raspberries. Steiner indicates the following: *We see what Saturn does with the help of the warmth-forces of our Earth, whenever the perennial plants arise. The effects of these forces, which pass into the plant-nature via the warmth, are visible to us in the rind and bark of trees, and in all that makes the plants*

March 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 new moon- 09:38	3	4	5
6	7	8	9	10 apogee-15:06	11	12
13	14 Mar 14-16 Very Good planting days NH good SH	15	16	17 full moon- 23:21	18	19
20	21	22	23 perigee-15:29 Good planting day NH fair SH	24	25	26
27	28	29	30	31 new moon- 22:28		

Notes: _____

perennial. This is due to the simple fact that that the annual life of the plant- its limitation to a short length of life- is connected with those planets whose period of revolution is short (p 27).

Therefore, when sowing vegetable seeds and the seeds of annual fruits and bi-annuals the planets which affect growth are the inner planets of Mercury and Venus, when in ascending phases. It is an assumption on my part, that fruit trees, with thin bark and shorter lives that coniferous and oak trees are most likely affected in their growth by the planet Mars ascending. Research needs to be conducted in this are.

Another favourable time for planting that I have found in my research has been during perigee, when the moon is closest to the earth, which occurs every 27.5 days (known as the anomalistic lunar cycle). The full and new moon cycle takes 29.5 days (known as the synodic cycle). Perigee as a favourable time to sow was not mentioned by Steiner, but research performed by Harmut Speiss has also found perigee to be a favourable time to plant. His research can be found at http://www.biodynamic-research.net/pdf/pdf_Ida1/spbd00.pdf.

Synodic Cycle or Trine?

The synodic cycle, where the moon passes through waxing phases (culminating in a full moon), and waning phases (culminating in a new moon) was mentioned by Steiner in the Agricultural Course to significantly affect the growth of plants. He says the following:

In deed and truth, with the forces that come from the Moon on days of the full Moon, something colossal is taking place on Earth. These forces spring up and shoot in to all the growth of plants, but they are unable to do so unless rainy days have gone before (p. 26).

Research conducted by Lili Kolisko, in her book *Agriculture of Tomorrow* determined that the exact best planting date was two days before a full moon. Unfortunately, this important book is no longer in print. My research has also found this to be the case, but planting for the entire week before a full moon can be considered as beneficial to plant growth. As indicated by the above quote, moisture is a key factor in ensuring that these growth forces of the moon affect plant growth. This moisture is most ideally in the form of natural rainfall, but if this is not available, then irrigation using sprinklers, driplines, etc., is also effective. With this information, we can now from a clear picture of the best times to sow seeds using Steiner's indications. For example, in this year's calendar, March 26-29 is indicated as being an excellent planting time. This is because all of the factors which positively affect plant growth are taking place: the moon is approaching its full phase, the moon is also approaching perigee, and both of the planets Mercury and Venus are in ascending phases in the Northern Hemisphere. This planting period could be extended to include the entire week before the full moon of March 28th. How does this methodology differ from that given by Maria Thun?

Thun's methodology is based on the relation of the moon to its position in the various signs of the zodiac. Just as the Earth passes through the twelve signs of the zodiac in the course of a year, the moon also passes through the twelve signs of the zodiac, but in a

April 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7 apogee-11:12	8	9
10	11	12	13 Mar 13-15 very good planting days NH fair SH	14	15	16 full moon- 10:58
17	18	19 perigee-07:17 Good planting day NH fair SH	20	21	22	23
24	25	26	27	28	29	30 new moon- 12:31 Solar Eclipse S. America

Notes: _____

much shorter period of time (29.5 days, which is the time the moon takes to orbit the earth). Thun divides the constellations of the zodiac into four types: Earth signs are considered beneficial to root growth and therefore root crops (Taurus, Virgo, Capricorn). Water signs are considered beneficial to leaf growth and therefore leaf crops (Pisces, Cancer, Scorpio). Warmth signs are considered beneficial to the growth of fruit crops (Aries, Leo, Sagittarius). Finally, light signs are considered beneficial to flower crops (Gemini, Libra, Aquarius). If the moon, for example, is in the zodiacal sign of Leo, then that period of time would be considered beneficial for the growth of fruit crops, like tomatoes or melons. Thun's method does not take into account the synodic waxing and waning phases of the moon, as indicated by Steiner. A good example of the differences in planting dates that can result from this can be seen on the dates of May 4-6, 2020. In my calendar, I considered these dates to be one of the best planting times of the entire year, in the Northern Hemisphere. May 5th was two days before a full moon, both Mercury and Venus were ascending, and the moon was at perigee on May 5th. In the *Maria Thun Biodynamic Almanac 2020* this date was considered an unfavourable planting time. How can such vast discrepancies be accounted for? In the Thun calendar, perigee, when the moon is closest to the Earth, is considered an unfavourable planting time. As I have discussed above, my research has found the opposite- that sowing seeds during perigee increases germination, plant growth and yield. I have conducted many trials regarding perigee in previous years, and this research is available on my website. The detailed and meticulous research of Harmut Speiss also found perigee to be a favourable planting time. I have not been able to find research conducted which would indicate the opposite is true. This is not to say that this research does not exist, but I have not been able to find it on the internet.

Perhaps the greatest difference in the theory of the Thun and Steiner method of sowing seeds has to do with the biodynamic understanding of minerals, plants, animals and the human being. For those unfamiliar with biodynamics and Rudolf Steiner, a brief description of Rudolf Steiner and the breadth of this work needs to be first discussed. Rudolf Steiner has been described as being a philosopher and a mystic, but these terms only give a vague description of this incredible human being. Rudolf Steiner was an initiate-one who could see clearly into the spiritual world in the form that is correct for the epoch in which we are now living. The breadth and scope of the revelations of his spiritual vision is truly remarkable. Education, medicine, religion, art, architecture and agriculture are all areas where Rudolf Steiner has provided guidance for the future development and evolution of the human race. A great deal of Steiner's efforts was in describing the modern path of spiritual development, in accordance with the times in which we now live. Steiner described how the gates of the spiritual world, which have been closed for over 2000 years, are now opening again, giving humanity the opportunity to peer clairvoyantly into the spiritual world again. All of the teachings and information that Steiner gives in the Agricultural Course must not be viewed as coming from investigations into the material world. They must rather be viewed as instruction given by spiritual beings that have been imparted to Steiner through his spiritual vision. There is in our culture today as

May 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5 apogee-04:47	6 Mercury Ascending SH May 6-Jun 6	7
8	9	10	11	12 May 12-13 good planting days NH and SH	13	14
15 full moon- 20:16 Total Lunar eclipse S. America	16 W. Europe N. America No sowings May 15-17	17 perigee-08:24	18	19	20	21
22	23	24	25	26	27	28
29	30 new moon- 03:32	31 Sun in mid- Taurus. Ash insects with bone	marrow in abdomen late afternoon/early evening.			

Notes: _____

scepticism to such proclamations given by human beings. How can the reports of so-called clairvoyant investigations be proven, they cannot be confirmed by the faculties of other human beings, asks the sceptic? This is a valid argument, and as Steiner is a forerunner, an advanced guard so to speak, of what lies in the future of humanity there are none, or perhaps very few who can verify the accuracy of Steiner's information. Steiner speaks of the world that we live in being filled with elemental spiritual beings- gnomes, undines, sylphs and salamanders. How can this be proven? He also speaks of hierarchies of good and evil beings- ahrimanic and luciferic beings, angels and archangels, and exalted seraphim. None of this can be put on a scale and weighed and measured in the physical world, and can therefore not be proven. Biodynamic agriculture is one of the few areas of Steiner's work where research using the tools of the physical world can be used. We can test these theories by weighing, measuring and observing how different planting times affect the growth of plants, and because of this, it is imperative that this work be conducted

The impulses that Steiner brings are vital for the future of agriculture and of humanity. The biodynamic preparations are meant to heal and bring spiritual impulses into the world again. But what if those unfamiliar, or perhaps sceptical of Steiner's work take it upon themselves to put to the test the information contained in biodynamic calendars? What if, as I have found in my research, there is no correlation between the moon and its position in the zodiac and plant growth? This would cast a shadow on all of Steiner's other spiritual work. The sceptic, or perhaps even one who is seeking for spiritual knowledge could then say, with justification 'the one area where Steiner's work can be weighed and measured has proven to be false- it does not work. Why should I then believe in any of his spiritual revelations that cannot be weighed and measured here in the physical world?' The impulses that Steiner has brought into the world are to prepare humanity for a new epoch in our evolution, one where the gates of the spiritual world are again opening, and humanity, will again see into the spiritual world as did the cultures of antiquity, but now with a clear sense of self and true individual freedom. I carry a deep sense of responsibility for the impulses that Steiner has brought into the world, and for me, biodynamic agriculture does not stand alone as one method among others. Biodynamic agriculture must be considered as part of a whole spiritual impulse which must transform and prepare humanity for the great changes that are about to occur in the coming generations.

Now that the foundations have been laid for a true understanding of the place and importance of biodynamic agriculture, let us return again the issue of Steiner's indications to planting times in comparison to those given by Maria Thun. Steiner spoke of the different aspects of minerals, plants, animals, and of the human being. The mineral, that realm of rocks and stones, metals and ores- what is called in science the inorganic world, contains only a physical body- it has only within it constituents of the physical world. When we rise to the world of plants, there is something in the plant of a spiritual nature that cannot be directly perceived by our physical senses.

This was called by Steiner the etheric or life body. This etheric body gives the plant life- it gives the plant the impulse to grow and reproduce, to sprout from a seed and to gather the minerals of the world into itself in a living way. As the plant ages, the etheric body is depleted and the plant dies, and is again subject to physical, mineral forces of decay, returning again to the mineral world. All living things in the world contain an etheric body, and are subject to the same forces of decay which ultimately brings about death. From the

June 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 apogee-17:15 Saturn Ascending SH Jun 1-Oct 22	2	3	4
5	6	7 Mercury Ascending NH June 7-Jul 10	8	9	10	11 Jun 11-14 superior planting days NH very good SH
12	13	14 perigee-15:23 full moon-03:53	15	16	17	18
19	20	21	22	23	24	25
26	27	28 apogee-22:10 new moon-18:53	29	30		

Notes: _____

realm of the plant, we ascend to that of the animal, which has, in addition to a physical and etheric body, an astral body. What is the difference between a plant and an animal? An animal moves about on the earth and is governed by instinct. Animals have sense organs and physical organs (heart, liver, organs of digestion, etc). Higher animals can also feel pleasure, pain, anger and sadness. All of these qualities are aspects of the astral body. Finally, we come to the human being. What is it that separates the human being from the animal? It is the ability to think, and the self-consciousness that gives the human being the ability to refer to itself as “I”. The ability to think and to have self-consciousness, to have the higher emotions of compassion, love and a conscience, these are the result of human beings having, in addition to a physical, etheric and astral body, an ego as well. The ego, that which makes us human, is the crowning achievement of God’s creation. Through our ego we are also given the ability to act in freedom- to make decisions and choices, to govern our own behaviour as we see fit, instead of being governed by iron instinct, as is an animal. A wolf can only be a wolf, an eagle an only be an eagle- there is no self determination in the realm of the animal. Thus, the human being is given mastery of the world in freedom- a gift of the gods. It is through our own free actions that the world’s fate will be determined. The gods have made us custodians of the earth, and it is our responsibility to take care of the earth and all its creatures. Biodynamic agriculture is an important part of the future health of our environment and planet. We can summarise the foregoing in the following table:

Mineral realm	physical body (all that we can touch and perceive with our senses in the inorganic realm)
Plant realm	physical body + etheric or life body (that which gives life and governs growth and reproduction)
Animal realm	physical body + etheric body + astral body (gives the animal the ability to move and experience some emotion, governed by instinct)
Human being	physical body + etheric body+ astral body+ ego (self awareness, ability to call oneself ‘I’, ability to think and live as a free thinking, moral being)

A much deeper discussion of the different aspects of the different kingdoms of nature and the human being can be found in many of Steiner’s lectures and books. My aim here was to lay the groundwork for a more detailed discussion of biodynamic planting methodology. In the Agricultural Course, Steiner says the following in regards to using the method of peppering (using the ashes of burnt animals) to control pests:

*Now that we are passing from plants to animals, we come to the ‘animal circle’- that is to say, the Zodiac. It was not called so in a meaningless way. **To attain our end within the plant world we can stop at the planetary system.** For the animal world, that is not enough. There we need ideas that reckon with the surrounding sphere of the fixed stars, notably the fixed stars of the Zodiac (p. 113).*

The influences that govern the growth of plants are contained in the etheric forces of the plant, described above. *These forces emanate from the realm of the solar system.* The astral forces that influence animals and are used in biodynamic agriculture to combat insect and rodent problems emanate from the spiritual forces that are radiated to the earth from the Zodiac. Here the issue becomes clear. If

July 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9 Jul 9-13 Superior planting days both NH and SH
10	11 Mercury Ascending SH Jul 11- Sep 10	12	13 perigee-02:09 full moon-10:38	14	15	16
17	18	19	20	21	22	23 Venus Ascending SH Jul 23-Dec 13
24	25	26 apogee-02:23	27 Jupiter Ascending SH Jul 26-Nov 21	28 new moon- 09:55	29	30
31						

Notes: _____

all of the forces that govern the growth of plants are contained in the planetary system, then how would the moon's position in the Zodiac influence the growth of plants? The plant does not contain an astral body and can therefore not be affected by these astral forces in its growth. As mentioned, the research that I have conducted, and the research that has been conducted by Speiss has shown no correlation between the moon's position in the Zodiac and plant growth. In this calendar, Steiner's indications are strictly adhered to: planting during a waxing moon, and for planting annuals and biennials, planting when Venus and Mercury are ascending. In Thun calendars these two influences are largely ignored. In the 2011 edition of *The Maria Thun Biodynamic Calendar*, the following was stated: "*the waxing and waning Moon is not connected to the planting times or to the ascending and descending periods. Under normal growing conditions the effects of these Moon phases are so small that we seldom go into them*" (p. 59). From this we can see the huge discrepancies in these two planting approaches. It has been my endeavour over the last decade to research these two planting methods and to ascertain which is the most effective in bringing about positive results. As I have stated, in the vast majority of the trials that I have conducted, the waxing and waning phase of the moon and the moon at perigee have shown positive results in terms of the growth and yields of vegetables. I have found no correlation to trines (also known as trigons) and plant growth.

Pest Control Using Ashing

In lecture six of the Agricultural Course, Rudolf Steiner gave practical information on the biodynamic approach to dealing with pest control. This is done through the process of ashing, where the pest that needs to be controlled is burned in a small wood fire. These ashes are then spread over the ground in a process Steiner called peppering. Only small amounts need to be used, and can be spread over a wide area. Steiner spoke of how life forces live in the watery element, and the counter forces to these life forces live in the element of fire. Hence, when we burn a seed, insect or rodent, we create anti-life or anti-reproductive forces in this burned substance. These forces are then spread out over the garden or field when peppering takes place. These forces can be further magnified in a process called potentization, where one part of ashed substance is added to nine parts water, and the mixture is stirred rhythmically for ten minutes. Rhythmical stirring involves stirring vigorously in one direction to create a vortex (15-30 seconds in one direction is sufficient), and then stirring in the opposite direction for the same amount of time, again creating a vortex. In the transition from stirring from one direction to another, stirring should again be vigorous, so as to create a period of what Steiner refers to as 'chaos'. The creation of the vortex draws the necessary cosmic forces into the water/pepper mixture, and the chaos period infuses these forces into the mixture. After the first ten-minute stirring takes place, the first potentization has occurred (called D1). After this first stirring has been completed, one part of this D1 mixture is added to nine parts water, and the process is again completed to create the second potentization, D2. I then spray the nine parts of the D1 on the field or garden in the areas where pest control is needed. A backpack sprayer can be used for larger areas, and a simple cedar or fir branch can be dipped into a bucket, and then used to whisk the potentized substance onto the soil for smaller areas. This process is then repeated. I recommend stirring up to a D14. In her book *Agriculture of Tomorrow* (I believe to be one of the most important Agricultural book in the world) Lili Kolisko spoke of how the first

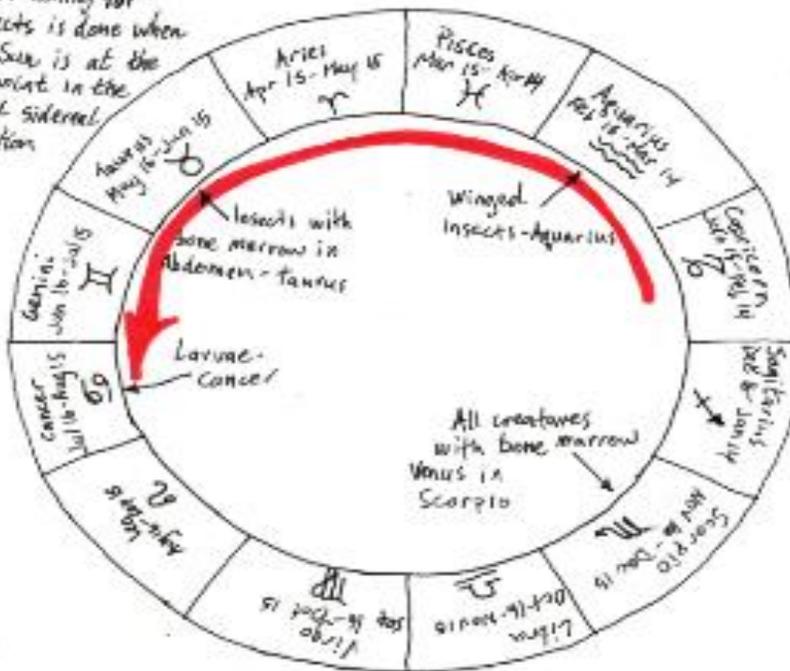
August 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Sun in mid-Cancer. Ash Larvae noon PST	3	4	5	6
7	8 August 8-10 Very good planting days NH superior SH	9	10 Perigee 14:16	11 Full moon 22:36	12	13
14	15	16	17	18	19	20
21	22 Apogee-18:54	23	24	25	26	27 New moon-05:17
28	29	30	31			

Notes: _____

seven potentizations work in the physical realm, the seven after that on the etheric realm, and the seven after that on the astral realm. For ashing of pests, it should not be necessary to work further than the ether (or life) body of an organism to create the desired conditions where these pests will not want to inhabit the peppered or potentized area. This occurs from D1-14 in the potentization process. It is, however, of paramount importance that the pest in question be burned at the correct time. In the case of insects, the timing of this correlates to the sun's passage through the constellations. Weeds should be ashed two-days before a new moon. The chart below shows the progression given by Rudolf Steiner, where winged insects are ashed in the constellation of Aquarius, those with bone marrow in their abdomen (beetles) in Taurus, and larvae (I include slugs and snails in this category) are ashed in Cancer. The ashing takes place when the sun is in the mid-point of the constellation in question. The ashing for creatures with a bony system, with a spine and skeleton, is somewhat different. Here the creature should be ashed when Venus is in the sign of Scorpio. All of these dates are achieved by using a sidereal zodiac, which shows the true position of the sun as it passes through the zodiac. I have included the dates of the sun's high point through the zodiac in the table below. It may be necessary to capture creatures before an ashing date and then to freeze them until the date in question. For example, slugs are not readily available at the beginning of August when conditions are too hot and dry for them to be active. I instead captured slugs in the spring and put them in the freezer in a zip lock bag until the August ashing date came about. Even though the slugs have been dead for several months, the ashing process will activate the forces contained in their bodies. I then save the ashes and use them in again when needed. In order for this process to be clearly effective, it needs to be conducted over several years.

All asking for insects is done when the Sun is at the high point in the Labeled sidereal constellation



Winged insects	Sun in mid-Aquarius on February 28 (afternoon PST)
Insects with bone marrow in abdomen	Sun in mid-Taurus on May 31st (late afternoon/evening PST)
Larvae	Sun in mid-Cancer August 2 (noon PST)
Animals with boney system	Venus in mid-Scorpio Nov 24 (noon PST)

September 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6 Sep 6-8 very good planting days NH superior SH	7 perigee-10:18	8	9	10 full moon-01:59
11 Mercury Ascending NH Sep 11-Oct 5	12	13	14	15	16	17
18	19 apogee-06:46	20	21	22	23	24
25 new moon-13:54	26	27	28	29	30	

Notes: _____

October 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4 perigee-09:02 Oct 4-7 Very good planting days NH superior SH	5	6 Mercury Ascending SH Oct 6-Dec 7	7	8
9 full moon- 12:55	10	11	12	13	14	15
16	17 apogee-02:22	18	19	20	21	22
23 Saturn Ascending NH Oct 23- end of year	24	25 new moon- 02:48 Solar Eclipse Europe, Africa, E. Russia	26	27	28	29 perigee-06:49
30	31					

Notes: _____

November 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4 Nov 4-6 good planting days NH S and SH	5
6	7 Total Lunar Eclipse N. America, Asia, Europe	8 full moon- 03:03 No sowings Nov 7-8	9	10	11	12
13 apogee 22:42	14	15	16	17	18	19
20	21	22 Jupiter Ascending NH Nov 22- end of year	23 new moon- 14:57	24 Ash animals with body system- Venus in mid-Scorpio Noon PST	25 perigee-17:32 Good planting day NH very good SH	26
27	28	29	30			

Notes: _____

December 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4 Dec 4-5 Good planting days NH and SH	5	6	7 full moon- 20:10	8 Mercury Ascending NH Dec 8-end of year	9 Mars Ascending SH Dec 8- end of year	10
11 apogee-16:31	12	13	14 Venus Ascending NH Dec 14- end of year	15	16	17
18	19	20	21	22	23 new moon- 02:18	24 perigee-00:34 Fair planting day NH and SH
25	26	27	28	29	30	31

Notes: _____
