

## Meetings and Announcements

### Happy New Year, 2022

I hope it will be for you and for me.

### Annual Winter Pruning Demonstration

We plan to hold our annual winter pruning demonstration on Wednesday, January 12, beginning 11 am, at the Farm & Home office, 1031 S. Mt. Vernon, rain or shine. This is an outdoor event, and so is accompanied by safety in terms of Covid. Come join us and have a break from the office or house confinement.

### Weekly Horticulture Zoom Talks Resume January 13

Horticulture Zoom talks resume in 2022. I offered 52 of these in 2020-2021. Although most were focused on notable gardens of Europe and Asia, I also did a series of talks on climate change and other topics about the environment. Let us plan for January 13, Thursday, 4:30 pm, same day of the week and time as before. I don't have a Zoom link to share at this time, and I think the best way to handle participation is for you to send me an email and I'll send you a link when available. If you were on past Hort Zoom talks, you'll receive an invitation from Travel Gallery, who is acting as host.

### Horticulture Classes—Not for now

The rise of Omicron has caused me to pause with regard to offering in-person classes. I will not schedule a class until we see how things go in early spring.

### 39<sup>th</sup> Annual Landscape Management Seminar, February 17, 2022

The all-day 39th Annual Landscape Management Seminar is scheduled for February 17, 2022, at Hodels. Abate-a-Weed is cooperating as a sponsor for this meeting and will be handling registration. We will request eight hours of PCA credit for this meeting, including two hours of laws.

### XII Horticulture Study Tour

We plan to offer our 12<sup>th</sup> Horticulture Study Tour in mid-May, 2022. The itinerary is to be essentially the same as we anticipated previously, the postponement due to Covid. The time frame is to be about two weeks, beginning in England at the flagship Royal Horticulture Society garden at Wisley, a stop at Salisbury and Stonehenge, and then to Wales. After seeing gardens in Wales, we move to Edinburgh for a day, and then go north

into Scotland, circling west to Inverewe and the Isle of Skye, finishing back in Edinburgh. The date framework is being confirmed, and I will announce when available.

## Deciduous Fruit Trees for the Home Orchard

The salubrious climate of the southern San Joaquin Valley allows many kinds of deciduous trees fruit to thrive. The typical winter fog is also beneficial for deciduous fruits because fog events increase the number of chilling hours. Mountain locations are also suitable for fruit species, such as apples, which require additional chilling and cooler summer temperatures to develop quality fruit. However, mountain sites may experience an increased risk of late spring frost, an event that can destroy the crop. Desert locations may be suitable for some fruit varieties, and good yields may be obtained in home orchards—again if late frost does not injure the crop.

When selecting fruit trees, be sure to obtain a variety suitable for your location. The widest selection is often found in early spring when bareroot trees become available. These allow the buyer to see the root system and also generally cost less than container stock. Nemaguard rootstock is preferred for stone fruits where nematodes may be a problem, which would be in most locations in Kern County. For apple trees, various rootstocks of the MM series give varying degrees of dwarfing. A list of fruit varieties suggested for home orchards located on the valley floor is available from the UC Cooperative Extension Office, 1031 S. Mt. Vernon, Bakersfield. Some fruit species are easier to grow than others, and in order of easiest to more difficult I rank them as follows:

- Apricot (vigorous, self-fruitful, few pest problems, what to do with all the apricots?)
- Plums (often partly self-fruitful and with few pest problems)
- Cherries (However, cherries are sensitive to over-watering and resulting root rot, and it's sometimes difficult to keep birds from devouring the crop. The loss of chilling hours is another factor that is limiting cherry adaptation to the Valley floor. )
- Peaches (well adapted but a life expectancy of only 12-15 years)
- Nectarines (more temperamental than peaches)
- Apples (summers are too warm in Bakersfield for most varieties)
- Pears (However, fireblight often kills young trees, so not reliable in Kern County.)

Some varieties of each species are better adapted locally than others. Variety selection may also obviate some pest problems. For example, mid-season peaches mature during the annual green fruit beetle flight, whereas later- or earlier-maturing varieties avoid this insect. If cross pollination from another variety is necessary for fruit set, such as for sweet cherries, be sure to get a compatible pollinator, or use a two-in-one or three-in-one grafted tree. Labeling branches of grafted trees may prevent an inadvertent pruning cut which completely removes one of the varieties. It's also a good idea to keep a record of tree varieties.

When planting, choose a location that will receive plenty of sunlight and, if possible, will be protected from wind. Allow plenty of space for the mature trees. For full-sized trees, 20 to 24 feet from others is a typical spacing. Soil amendments or fertilizer in the planting hole are generally not necessary and may prove deleterious. After planting, it's best to settle the soil with water rather than tamping the soil. We recommend applying whitewash, or white latex paint diluted 1:1 with water, to the trunks of young trees to

prevent sunburn. In mountain areas, a north-facing slope can slow down flower development and may limit the damage from spring frosts.

There are three pruning phases in the life of a deciduous fruit tree. Most fruit trees grown locally can be trained to an open center. (For trees in cold climates, a modified central leader is often preferred.) The first pruning occurs at planting, when the first cut should be made to foster development of a low vase-shaped structure. After a bareroot tree is planted, the trunk should be headed at 24-32 inches above the soil surface. This cut may be emotionally difficult to make, because it may seem as though \$15 of a \$20 tree has been removed. But when we purchase a deciduous fruit tree at the nursery, we are really paying for a well-developed root system and the grafted (scion) variety—the top structure is not important. (Note: The situation is different for shade trees, where the structure of the top of the plant and how it has been pruned greatly affect further development.) For deciduous fruit trees, this most-important cut serves to establish low origination of structural branches, which will allow most pruning, harvesting, and pest management to be performed without a ladder during the life of the tree. Trees in agricultural fields need higher branching for equipment passage, but low branching greatly facilitates tree care at home.

The second phase of pruning serves to establish structure, and this phase begins the year following establishment. The low heading cut of the previous year will result in several branches growing outward at various directions and angles, and three or four strong, upwardly growing branches spaced at intervals around the trunk should be selected as scaffolds. Additional branches can be removed. Pruning over the next few years emphasizes structural development, including a well-spaced system of scaffolds and laterals.

The third phase of pruning begins with the onset of maturity, which is 5 - 7 years for most fruit trees. At this stage, the tree should be pruned for fruit production, with consideration of the location of fruiting wood. Pruning at this stage serves to invigorate and direct growth of the tree, with a goal of keeping it forever young; that is, annually producing new fruiting wood. A detailed discussion is beyond the scope of this article, but principal determinants for pruning are the location and amount of fruiting wood. We hold annual pruning demonstrations to show how fruit trees should be pruned. We also have a publication, available at our office, which discusses pruning deciduous fruit trees.

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