HEALTHY FOOD SYSTEMS • HEALTHY ENVIRONMENTS • HEALTHY COMMUNITIES • HEALTHY CALIFORNIANS

University of California
Agriculture and Natural Resources
Making a Difference for California

The Green Scene

UCCE

December 2018

Meetings and Announcements

December Fruit Tree Pruning Demonstrations—Rain or Shine

We invite you to come to our annual fruit tree pruning demonstrations, this year held Wednesday, December 12, and Thursday, Dec. 13, at the orchard adjacent to the UCCE office, 1031 S. Mt. Vernon Ave., Bakersfield. The demonstration will begin at 12:00 noon each day, led by Mohammad Yaghmour of University of California Cooperative Extension. Trees include apple, apricot, cherry, and almond, and Mohammad will also show how to prune grapevines.

The beneficial climate of Kern County allows residential planting of many deciduous fruit tree species. Unlike shade trees, deciduous fruit trees should be pruned every year before bud swell for optimum growth and yield. Pruning need not be complicated, but if pruned incorrectly the yield of fruit will be reduced or eliminated, and the life of the tree will be shortened. Pruning diagrams or photographs in books or on the Internet may be helpful, but seeing pruning in three dimensions and being able to ask questions are advantages for those who attend one of the demonstrations.

We will also be offering our publication on pruning of deciduous fruit and nut trees, as well as publications on fruit varieties and fertilizer for fruit trees.

37th Annual Landscape Management Seminar

The 37th Annual Landscape Management Seminar is planned for February 27, 2019 at Hodels. We expect a number of visiting speakers covering a range of topics and updates. Abate-a-Weed is cooperating as a sponsor for this meeting and is handling registration. We will apply for eight hours of PCA credit for this meeting, including two hours of laws.

Winter Pruning of Outdoor Roses

In December / early January on the valley floor of Kern County, annual winter pruning will be needed for hybrid teas and grandifloras. The time of pruning can be delayed in mountain areas until the coldest weather has passed, but before bud swell occurs.

Rose pruning in home gardens and landscapes can be a simple matter requiring relatively little time. As for other woody plants, pruning is used for roses to invigorate the plant and direct its growth, but the amount of pruning depends on rose type and purpose in the landscape.

Broadly speaking, most roses grown outdoors can be divided into two groups. Roses grown for cut flowers include hybrid teas and grandifloras, for example, the classic varieties ‘Peace,’ ‘Oklahoma,’ ‘Mister Lincoln,’ and ‘Chrysler Imperial.’ The shrub- or

landscape-type roses are grown as floriferous shrubs, for example, the varieties 'Pink Simplicity,' 'Knock Out,' and 'Flutterbye.'

For hybrid tea and similar roses, we remove dead, diseased and damaged wood as well as older canes showing poor vigor. Canes severely affected by scale insects can also be removed. The rose plant can be thinned, removing central canes to favor 3-5 canes growing toward the outside. Although a standard recommendation is to make cuts at a 45° angle just above an outward-facing bud, it is not necessary for plant health to be so precise, since roses have many dormant buds and can form new buds readily. For hybrid teas and grandifloras, about 10-15 minutes per plant should be enough time for pruning. In other words, don't worry too much about exactly how and where cuts are made. An exception to that statement would be pruning for show roses and, of course, we are not talking about greenhouse flower production where pruning is specific per variety. The function of the rose plant in the landscape should influence the amount of pruning. Roses used for screens or accent plantings can be lightly pruned so as to retain their size, removing perhaps 1/3 of the height. Pruning a rose to shorter canes does result in longer flower stems, if that is important to you.

Shrub- or landscape-type roses should be treated as floriferous shrubs, and should not be pruned back to a few short canes as hybrid teas can be. Rather, older canes can be removed, and (gasp) a hedge trimmer can be used for speed to shorten long canes and make the plant a bit smaller in size. Use of a hedge trimmer, however, does not imply that plants should be formed into little globes or boxes, diminishing their aesthetic value and defeating their purpose in the landscape. Landscape roses are typically (and should be) only lightly pruned, since they function as colorful shrubs, so upright varieties can be left to 5-8 feet.

A recent peer-reviewed study conducted by Dr. Jim Downer of the University of California Cooperative Extension showed that it is variety rather than pruning that has the most influence on flower number and growth of landscape-type outdoor roses (Downer et al., 2015, *Acta Horticulturae* 1064: 253-258). There were few differences in plant quality between intermediate pruning treatments (36 or 18 inches height). Severe pruning (6 inches) resulted in significantly fewer flowers in most varieties during the four-year study period. Plants pruned lightly had the greatest number of flowers. Variety selection had the most influence on plant characteristics over four years.

The University of California has three free publications that describe the care of outdoor roses, including insect and disease management. These can be read and downloaded from the UCIPM website, www.ipm.ucdavis.edu. Also, the University has a booklet, Healthy Roses, available via its publications catalog at http://anrcatalog.ucanr.edu.

While pruning, please be on the lookout in rose plants for the early rose rosette disease symptom of excessive thorniness (photo at right), multiple terminal shoots (called witch's broom), and in a very late stage, the bright red of terminal foliage. I have posted three papers to our UCCE Kern County website (cekern.ucanr.edu) under the heading "Environmental Horticulture/ Environmental Science" that give further information and contain additional photos. These include an Extension publication from Texas A&M, an article from American Rose magazine, as well as an article from HortScience. Conditions in Kern

will affect the spread and development of the disease, so our experience may not be the same as has occurred back east.

John Karlik
Environmental Horticulture/Environmental Science

Disclaimer: Discussion of research findings necessitates using trade names. This does not constitute product endorsement, nor does it suggest products not listed would not be suitable for use. Some research results included involve use of chemicals which are currently registered for use, or may involve use which would be considered out of label. These results are reported but are not a recommendation from the University of California for use. Consult the label and use it as the basis of all recommendations.