Maintaining and caring for the Sierra Foothill Research and Extension Educational Fruit/Nut Orchard has been a tremendous pleasure over the last 7 years. Not only does the orchard provide over 50 different varieties of fruit and nuts throughout the year but could provide an educational outreach resource to the local community via schools, local residents, Master Gardeners, and California Naturalists.

Providing late winter and early spring maintenance to your home orchard requires fruit tree publication research, speaking with your local nursery personnel, thoughtful planning and due diligence. Knowing where fungus and insects are hibernating over the fall/winter seasons and removing/destroying physical structures known as “mummies” will determine the future health of your fruit/nut trees. These “mummies” are harboring many different types of brown rot (Monilinia fructicola and M. laxa) and insects (see Figure 1, 2, & 3). “In summer, especially when there are rains or dews that moisten the fruit surface, the spores (brown rot fungus) germinate and penetrate the fruit. Some rotten fruit rot from the tree and decay on the ground. Others remain attached to the tree and slowly shrivel into wrinkled, black, and tan structures called mummies. The mummy is composed of both fungal and plant tissues and is a survival structure for the fungus.”¹

Identify, collect, and eliminate this over-wintering physical structures to decrease future pest activity. Using a bucket, keenly glance over each fruit/nut tree individually and collect leftover, shriveled, old fruit on tree branches and the ground. If you remove the “mummies” from the tree and dispose of them on the orchard floor, the fungus spores and insects will continue to live and multiply and infect your home orchard. Transport the bucket full of “mummies” away from the fruit/nut trees to prevent future contamination. Now, in my recent efforts to find out the best environmentally conscious method of disposal, I was unable to locate research publications advising a preferred direction. I ended up burying them in the soil ½ a mile away. Will the bugs and fungus die/live/prosper? I could time the disposal of “mummies” when I burn an agricultural pile of debris or soak the bucket in water with a small percentage of citric acid. Readers are encouraged to chime in and submit their opinions and thoughts. I appreciate your time and effort reading this message.

Identifying and Disposing of Over-Wintering Fruit & Nut Tree “Mummies”

Author: Nikolai Schweitzer
February 24, 2019

Figure 1-Fruit/Nut tree physical structures “mummies” harboring fungus spores and insects. Photo by Nikolai Schweitzer
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Figure 2-Inside “mummies’ spiders, earwigs, moth larvae, grubs, ants, and beetles. Photo by: Nikolai Schweitzer
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Figure 3- Over-wintering insects - Oriental Fruit moth larva? Photo by: Nikolai Schweitzer