California prune industry will probably just adjustment largely because of the poor quality. Demand for California dried plums decreased before prices can be increased. During the next few years, prices and quality will have to improve in good prune orchards in the state. Prunes from orchards with old and poor yielding trees, producing fruit of poor quality and small size, will probably be unsaleable again so that the trees will have to be grubbed. Owners of these poor prune orchards should, therefore, give careful consideration to replanting them with other crops to which their land is adapted and for which better returns might be expected from the long run than from prunes. However, growers with good land and climate probably should not replace their prunes with other crops unless they are convinced that by so doing they can increase their returns significantly during the next 15 or 15 years. There is some probability, although no absolute certainty, that prices for California prunes and production within the state will rise more than the national average to offset the expected low level of domestic demand and of decreased exports, so that the supply and demand for California prunes may come into balance at prices that will give efficient growers good orchards as well.

(Continued on page 3)

Beet By-products In Mixed Rations As Livestock Feed

The sugar-beet industry offers two important by-products to the livestock industry: beet tops and siloed beet pulp. Both of these by-products, when processed properly, are excellent feed resources. Their utilization in livestock rations increases livestock raisers and sugar-beet growers.

Sugar-beet tops have been the most widely used siloed or stacked may be successfully used for fattening cattle, with or without molasses, and are an excellent roughage feed for lactating dairy cows. Most of the beet tops are pasture.

Rilled, feed-through, or containing only 76.4 per cent digestible nutrients on a dry basis. The addition of molasses to the silo pulp has been found to improve feeding efficiency.

Research has shown that beet tops, if properly used, not only promote good weight gain, but also increase the production of milk by dairy animals. The by-products of the best-growing and superior sugar-beet industries are presented in a new bulletin published by the College of Agriculture. (See page 4).

Granulation in Valencia oranges. ABOVE LEFT: Granulation shown in a cross section of the stem end. ABOVE RIGHT: Cross section of the same fruit cut near the center of granulation. BELOW: Showing (a) healthy pulp; (b) moderately granulated pulp; and (c) badly granulated pulp.

Granulation in Valencia oranges is caused by a fungus, a virus, or a bacteria. It is definitely related to the growth activity of the tree. Since 1930 over 200,000 Valencia rough lemons rootedstocks produced the most granulation—84% for each of the others—while Sampson tangelos produced the least—10%. At Riverside, a three-year average

In each case the percentage of granulation produced on the wet plot was a little over twice that produced on the dry plot. Lime spray at 56 pounds per 100 gallons reduced the amount and severity of granulation about half. This treatment is not recommended because the treated trees lost excessive amounts of leaves during the fall of the year. During a period of seven years, sprays were found to augment the amount and severity of granulation. Their use should be avoided wherever possible.

HCM—hydrogen cyanide—tested at the same time, did not affect the production of granulation. (Continued on page 4)

Ladybirds, Lacewings, Parasites Tested As Long-tailed Mealybug Controls In California Citrus

Pest DeBak and C. A. Flechman, University of California, Berkeley, have developed tests of certain parasites and predators of the long-tailed mealybug, Pseudococcus Longispinus, as potential control measures. The tests were conducted in the Citrus Experiment Station, Riverside, California.

Field Studies

Oranges were infected with the long-tailed mealybug in late August and early September. The mealybugs were then sprayed with a 5% nicotine dust. The nicotine dust was then applied to all of the trees in the experimental field. The mealybugs were then counted each week to determine the effectiveness of the nicotine dust.

Results

The nicotine dust was found to be effective in controlling the long-tailed mealybug. The mealybugs were reduced by 90% in one week. After one month, the mealybugs were reduced by 95%.

(Continued on page 5)
California Prune Industry May Face Market Adjustment

(Continued from page 1)

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