Forticultural Department

Propagating of Small Fruits

Strawberries New plants of the | to form many new ones from its roots A single plant will produce plant. several runners and from three to five Blackberries—Produce new plants new plants on each runner. When from the roots like the red raspberry. a new bed is started the runner plants nearest the parent plants only, should be used, as they are more vigorous by mound layerage or by cuttings than plants taken from near the tip made from the young shoots. Mound of the runner.

Raspberries-New plants of the blackcap raspberry are secured by covering the tips of shoots (young canes) with dirt during late summer. Roots will form on these covered tips which can be transplanted the following spring, as a new plant.

Loganberris are usually propagated by the same method.

Red raspberries do not propagate from tips of the canes, but send suckers or underground stems from the roots. New roots are formed on these suckers, a cane or stalk is produced during the summer, and the young plant may be reset either late the same fall or the following spring. An old plant may often be induced

RECORD Crops in all

Manitoba, Daskattinan de Manitoba, Manitoba, Daskattinan de Mineat, Oats, Barley and Flax. Whent graded from Contract to No. 1 Hard. weighed heavy and yielded from 20 to 45 baskels per acre; 22 bushels was about the total average. Bused Farm ing may be considered fully as yield an industry as grain according as the all the contract of the contract

to the baseds per extra all the control of the cont

Western Canada

strawberry are secured from runners by cutting the roots with a spade or or propagating shoots of the parent by plowing close to the crown of the

Blackberries-Produce new plants Currents and gooseberries-These plants are usually propagated either layerage is perhaps the simplest of the two methods. Soil is mounded over the crown of each plant, covering the base of each young cane. As soon as the roots have formed the cane may be severed from the parent plant and the newly formed plant reset. Mounding is best done in the summer after the crop has been har vested.

When a great many new plants are desired, cuttings can be made from the newly formed wood. In favorable localities, cuttings can be made just after pruning, in early spring, and the clippings of the young wood set in trenches in the soil. A piece of wood about the length and diameter of a lead pencil makes a very con venient cutting for bandling. Before planting, the soil should be thorough ly prepared to a depth of ten inches. Cuttings are easily set by opening a crack in the soil with a spade, inserting the cutting with bads pointing upward, replacing the spade a few inches from the cutting, and by pressing forward on the handle of the spade, force the soil firmly around the cutting. It is usually preferable to set cuttings of gooseberry and currants deep enough to allow about two buds below the surface of the soil and two above. This will generally insure rooting and a vigorous top.

In some localities where it is difficult to start hardwood cuttings directly in the field, they may be started in a cold frame and transferred to the field as soon as they are well calloused. When bandling in this way the cuttings are tied in bunches, in verted in moist sand with buds pointing downward, and covered by an inch or two of sand. This may be done any time during the fall after the wood has become well ripened. The object of inverting the cuttings is to keep the buds dormant while heat is applied to the base or butt end of the cutting. A few weeks before planting time in the spring a layer of decomposing horse manure should be spread over the sand in which the cuttings are imbedded. will heat the butt end of the cuttings and induce callousing and formation of root growth. Additional heat may be added by using a glass sash over the decomposing manure. should be taken to keep the sand moist around the cuttings at all times. As soon as the callous and swelling which usually preceeds the root growth has started, the cuttings may be transferred to a carefully prepared nursery bed, and planted, as cuttings set directly into the field.

After the first season's growth in the nursery row the plants should be transferred to their permanent | place



and headed back severely to induce growth should be headed back about cane and crown of the plant.

PRUNING CURRANTS AND GOOSE-BERRIES.

Currants and gooseberries should be trained and pruned to the bush form rather than to the tree form, On these plants the fruit buds are produced on the older wood. The number of crops the canes should be breaking. allowed to produce before renewing will depend a great deal on the vigor of the plant. Usually a cane will produce three to four crops before it is necessary to remove it. If a few spondence relative to a trial of the new canes are allowed to mature each feijon, a semi-tropical fruit of which season, the old canes can be gradually removed as the new ones come into ful things, and hope that it can be bearing. The number of canes to allow each plant will depend upon the it is as valuable as the Californians soil and the distance of setting. Plants set five or six feet apart each way can usually support from four to of Monrovia, Cal.: six strong canes. Each year the new

new shoots from the base of each half of its length. This will produce a short stout cane, strong fruit buds, and well developed fruit. In local ities where the wood growth is extremely long, as it is in Western Washington, it is good practice to drive a stout stake near each currant bush, and when the fruits are about half grown, tie the canes to the stake with a strong cord. This will often save a heavily fruited cane from

THE FEIJOA IN CALIFORNIA.

I have recently had some correspondence relative to a trial of the southern California predicts wondergrown in the Puget Sound region if say it is. Following is an article taken from the Monrovia Daily News,

"Among the wonder fruits which

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Government Agent.

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Forticulture

bave recently been introduced to the fertile soil and amiable climate. southern California is one which in many ways stands alone. It is green when ripe, with an aroma of lilac and crabapple, flavor best described by thinking of bananas, pineapples and strawberrries. The seed costs \$2500 a pound, and is difficult to procure at that price. It was introduced to the civilized world by a French traveler named Andre, who brought it from far away Uruguay. Its name is feijos, which the botanists pronounce fayzea, and the natives of Urugusy fayboa.

Monsieur Andre carried his feijos back to France in 1890, and there succeeded in propagating it. French people who were fortunate enough to know it esteemed it for its delightful bouquet as for its food value, and kept the fruit in their salons as much as in their dining

Almost 15 years later Dr. Fran ceschi, of Santa Barbara, and a Mr. Hehre, of Los Angeles, brought specimens of the feljos to southern California. Each claim the honor of having presented the fruit to the American people. Since that time, through direct importation from Uruguay and through propagating from the parent stock of Dr. Francheschi and Mr. Hehre the feijoa has become more widely known and has many friends among the nurserymen of the state, although it is still in the novelty class.

POSSIBILITIES OF THE FEIJOA.

According to Mr. Dan Glower of the Semi-Tropic Nursery, the feijoa will not remain among the novelties for any great length-of time, but is destined to become one of the most popular sugar fruits on the market. Mr. Clower has been studying the fruit and experimenting with it for the past five years and has through the agency of the American consul at Uruguay, succeeded in obtaining a quantity of seed from that country. He has secured plants from varieties already introduced into this country and has in all about 300 specimens. He makes the following statement of its qualities:

"The felioa is the climax, the highest type, of the guave family and is called the pineapple guava, as the pineapple flavor seems to predominate in the ripe fruit. The tree is shrublike in form, will thrive in any soil and will grow without irrigation, although it does much better when well watered. The leaves are of the constant foliage type, approaching evergreen; are olive green on top and silver gray beneath. It flowers ordinarily from the middle of April to the middle of May. The blossoms are red and white, the calyx green outside and red inside, corolla white outside and red within, stamen and filaments red with yellow anthers. The pistil is red.

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"The fruit is green in color, even when ripe; is oval or pear shaped and does not mature on the tree, but must be picked and allowed to ripen indoors, requiring from ten to fourmost perfect condition. It matures the latter part of October, and in together about 700 berry growers. keeping qualities is about on a par with the apple. In size it is from stage to the street as full as it would ment for several years. He told of



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two to three inches long, and is half possibly hold. It was believed at the great growth the association had as large in diameter as in length. It first that the meeting was called as a made; the efforts made and success is a good shipper, being protected by a tough skin. The fruit is practically seedless, the seeds being no larger than mustard seeds and from eight the management than a frank discusto twelve to the fruit. In flavor it sion of ways and means to better the is a combination of banana, pineapple berry industry of the Puyallup valand strawberry. Is excellent eaten raw, sliced and served with sugar as a dessert or made into jam or jellies.

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"The tree is hardy, has been grown as far borth as Oregon and as far east as Colorado, where it successfully withstood a temperature of four de-It is free from scale or spider and is long lived."

BERRY GROWERS DISCUSS MARKETS.

Saturday afternoon to protest against out the middleman's profit, some phases of the management of ers' Association resulted in bringing

oped that it was less a protest against

Mr. John Mills made the opening address in which he stated the object of the meeting and told how the meeting had been brought about. Mr. Fred Chamberlain made the principal address of the protestants the troubles of the berry growers of the valley and thought that the low price of the fruit this year was due to bad management in selling. He made a strong plea for co operation between producer and consumer and The meeting called at Poyallup last approved of the plan which would cut

After Mr. Chamberlain's address teen days after picking to reach the the Puyallup & Sumner Berry Grow. Mr. Paulhamus took the platform and for three-quarters of an hour gave a history of the berry ascocia-These filled the Redman's hall from tion of which he has had the manage-

protest against the management of attained in enlarging markets; of the President Paulhamus, but it devel- great growth of the canning industry, and spoke at some length of the efforts made to supply patrons of the association with necessary fertilizer, groceries and feed in the establishment of a store.

At the conclusion of his talk which was without anger and in a most explicit manner, he asked if the gathering would endorse his administration and if they desired his re-election as manager? On the affirmative practiin which he reviewed at some length cally every grower in the room voted age. Only a few negative votes were recorded. There is no doubt that the meeting will have a good effect on the berry industry of the Physling wiley as there is a better understanding of the association's management. with its members.

