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ment.

Persons tendering are notified that tenders will not be considered unless made on the printed forms supplied, and signed with their actual signatures, stating their their actual signatures, stating their the case of firms, the actual signature the nature of the occupation, and place of residence of each member of the firm must be given. Each tender must be accompanied by an Each tender must be accompanied by an

Each tender must be accompanied by an accepted choice on a chartered bank, payable to the order of the Honourable the Minister of Public Works, equal to ten per cent (16 p.c.) of the amount of the per cent (16 p.c.) of the amount of the son tendering decline to enter into a contract when called upon to do so, or fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

urned.

Department does not bind itself to the lowest or any tender. By order,

R. C. DESROCHERS,

Secretary

Department of Public Works, Ottawa, June 26, 1913 Newspapers will not be paid for this ad-vertisement if they insert it without au-thority from the Department.—2951.

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FARM AND DAIRY Peterboro, Ont.

## Keessassassassassassassa HORTICUL TURE

How Does Thinning Help?

R. M. Winslow, Provincial Horticul-turist for B. C.

The removal of some of the fruit at an early stage in its growth helps ma-terially towards securing the maxi-mum duty of the tree in certain de-

finite ways:

(1) The average size of the fruit
is increased; this is the most obvious result of thinning.
Trees overburdened with fruit produce a greater percentage of No. apples. The increase in size of the remainder, after the first or second pickings of Bartlett pears is made, is a striking instance of the increase in ize when the number of fruits is reduced

(2) The fruit borne is more uniform in size and shape. On the overloaded tree there is much variation in size, tree there is much variation in size, and, especially where two or more fruits remain on a spur, they are variable in shape as well. The fruits from the side blossoms of the cluster are in many varieties much different are in many varieties much different from those from the centre blossom, usually being flatter in shape and having a considerable longer stem. Uniformity in size and shape is an important essential of commercial

(3) The color is materially better-ed, more uniform and comes earlier. The remarkable increase in color which occurs when a first picking is made from heavily bearing trees of even the winter varieties, such as Jonathan and Wagener, furnishes striking confirmation of this point. While color seems largely related to sunshine, it is a well known fact that on a heavily-loaded tree the fruit has less color, which is less evenly distri-buted and more slowly acquired. (4) Thinning improves the quality. This is especially the case where the

is deficient in moisture or plant-

(5) The fruit is freer of diseases and insect pests, because wormy apples, limb-bruised or diseased fruit of any kind, can be removed at thin-ning-time. On plums and peaches in ning-time. On plums and peaches in moist regions, fruits thinned so that no two touch when fully grown are much freer of brown-rot.

(6) The removal of misshapen fruit

lowers the percentage of low-grade

(7) Thinning prevents premature ropping. A familiar instance is that dropping. A familiar instance is that of the McIntosh Red, which is especially liable to crop where two fruits are left on one spur. Premature dropping is quite largely due to the inability of the tree to supply moist-

inability of the tree to supply mou-ure to an excessive crop.

(8) The load of fruit is more evenly distributed, and this is a very import-ant feature in preventing the breaking-down of trees.

ing-down of trees.

(9) The cost of picking is reduced considerably, and the labor of picking is divided more evenly over the season. This is an important advantage where the supply of labor is deficient in picking-time. Costs of grading and packing are also much lessened.

(10) Less fertility is removed from the soil. A ton of apples takes out approximately 1.2 lbs. of nitrogen, 1.6 and of leasers of the soil of the soil

acid. A ton of pears removes the same amount of nitrogen and about twice as much of the other elements. The seeds take the great bulk of these The seeds take the great bulk of these amounts, the pulp of the fruit taking but a small portion. As the number of seed is roughly in proportion to the number of apples, and not to their size, the removal of fruits leaves a much greater supply of plant-food for the balance of the crop, for the growth of the trees, and in the soil.

(11) The tree is less liable to winter injury. The ripening of the heaverop drains the vitality of the tree, leaving it in poor shape to withstand the winter. Trees bearing moderate crops for which there is an adequate supply of plant food and an adequate supply of moisture have sufficient vitality to ripen the crop, and ripen the fruit-buds and new shoots

as well

(12) One of the most important
results of thinning is that the trees
will bear a larger and more uniform
crop the following year. The tendency
towards biennial bearing is materially
reduced, much depending in this,
however, on the variety.
For various reasons, then, thinning
helps materially to secure the maximum duty from the tree.

mum duty from the tree.

#### Marketing Early Vagetables

E. E. Adams, Essex Co., Ont. Before one enters the early vege-table business, he should get some information as to the probable chances formation as to the probable chances be may have of marketing his pro-ducts. I find many go into vegetables, without giving the real busines, end of it much thought; in fact, many do not even try to find a purchaser until they have their goods in the package. One should be ahead of that system, or no system, and get busy before there is anything to market, and have arrangements made so that they may have some idea what they are doing. have some idea what they are doing

A reasonably good system is for a shipper to procure a line of dealers throughout a greater of lesser terri-tory, as occasion may require, giving these dealers prices on the different products as they mature, and solicit ing their business for large or small quantities. It pays to explain to dealers what there is to offer either by description or when making out price sheets have cuts of the different stock representing their types as nearly as possible. Some dealers do not know much about some kinds of pr ducts and an idea expressed by a cut or engraving aids them

Weekly quotations should be sent out by mail about the last of each week, covering the week following. I have found this method very satisfactory during a number of years and only consign to commission men my surplus stock each day. In this way I keep my packing house cleared out of each day's gathering.

Some growers form an association and have a manager to attend to the distribution. This is a good method provided the manager understands the The same methods are em ployed in selling the goods with the expense of selling deducted pro rata according to the quantity of goods handled during the season.

#### Squash Bugs

Unfortunately two insects are included under this one common name. They call for radically different treatment because one—the Cucumber Bee tle is a biting insect, while the other or true Squash Bug is a sucking in-sect, which attacks melons, cucumbers and squashes.

In combating the true Squash Bug the small plants may be kept covered the small plants may be kept covered with cheese cloth over light frames or hand picking of the large yellow eggs and of the bugs themselves in the early morning may be resorted to. After the crop is harvested the vines ter the crop is harvested the vines should be destroyed.

To avoid trouble from the Cucumber

Beetle, plant an excess of seed and when the plants appear dust them with a mixture of one pound of Paris green with fif y pounds of lime or cheap flour.

I receiveed my pure bred Yorkshire sow and am well pleased with it.— Levi Salisbury, Lennox & Addington Co., Ont.



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