New Brunswick Fruit Notes

Apple picking is about done. With the exception of a high wind on October 2nd, the weather has been the finest, in a number of years, for harvesting. The result will be fruit harvesting. The result will be trun handled in better condition and more

satisfacto y to all.

Fall and early winter apples are a Fall and early winter apples are a good medium crop, and there are some nice lots of later kinds. Prices are very good. Duchess are gone at \$1.00 to \$1.45. Wealthy, Dudley and Alex-ander are brigging from \$1.25 to \$2.00 in this nurket. Estimense are selling \$1.00 better to private trade. Where strawberry fields have re-ceived good care the plants have made

ceived good care the plants have made good growth and will go into winter in good condition. Currant, goose-berry and raspberry bushes have also made good growth and look very pro-

mising for next season.

The Herbert raspberry is giving a od account of itself, co last winter alive to the tips and yield ing a good crop of nice berries. It promises to be a valuable addition to the fruit gardens of the colder parts We hope some one will give us a We hope some one will give us a blackberry equally hardy and prolific

Exhibition Dates Changed

The dates for the holding of the fifth annual Ontario Horticultural Exhibition have been moved forward on day, to enable the opening being held on the evening of Thanksgiving Day, Nov. 9. It is expected that the exhib-Nov. 9. It is expected that the exhibition this year will eclipse any previous effort of the association and will be the largest exhibition of its kind

ver held in America. The exhibition has outgrown Massey The exhibition has outgrown Mass-cy Hall and will be held this year in the 8t Lawrence Arena, King Street East, Toronto. This is the building that has so successfully accommodated the Horse Show, the Automobile Show, and 'arious other large public func-tions. The exhibition will continue during the entire week. Each evening there will be a programme in which the regimental bands of Toronto will take part.

take part.

take part.

The entrance to the Arena and the Arena itself will be lavishly decorated with bay trees, plants, flowers, fruit and bunting. In fact it will be almost with bay trees, plants, nowers, true and bunting. In fact it will be almost impossible to recognize the building after the decorators have finished their work. The Arena will be divided into four parts for the showing of flowers, fruit, vegetables and honey. These sections will be divided by col-These sections will be divided by colonnades and arches. The effect of the whole will be one of the most pleasing sights one could imagine. The decorated dining tables, set complete to seat eight persons, are expected to be one of the features of the exhibition, one of the features of the exhibition. There is great rivalry among the Toronto decorators and categors, to see who can set up the most artistic and correctly set dining table. This feature will attract thousands of ladies who are interested in matters of this nature. The whole building will be comfortably heated, and there will be free seats for those who wish to sit and enjoy the music and the beautiful

Soil Moisture and Its Control

F. T. Shutt, M. A., Chemist, Dominion Experimental Farms, (Concluded from last week)

In 1903, a severe and unusual drought prevailed at Ottawa during drought prevailed at Ottawa during the spring and early summer months. It afforded an excellent opportunity to prosecute this research on the con-servation of soil moisture. On May 23, on adjoining plots, the moisture in the cultivated soil was 12.65 per cent; in the soil under sod, 4.78 per

HORTICULTURE the touch and the trees had not visibly suffered; the soil under the sod was a powder, apparently dry, and the leaves of the trees had begun to wither and fall. Enough has been wither and fall. Enough nas been said, it will not be necessary to follow the results in detail throughtout the season till the drought broke. They emphasize the very exhaustive character of sod as regards soil moisture and furnish proof of the immense cultivation in arresting the drying out of soils. drying out of soils. Further, in an-other series we had that year, our data pointed out the desirability of early turning under the corn crop and, if this is done by the plow, im-mediately working the soil with the cultivator in order to again set up capillary action with the underlying soil and creating an earth mulch to prevent surface evaporation.

Our experiments at Ottawa appan show that the practice Nappan show growing a grain crop in the orchard is to be condemned, for it makes an unusually large draft on the soil moisture at a time when the crees mo Trials were made with require it. Trials were made with oats, winter reand buckwheat. It will prove of interest to cite certain of the data we obtained. First, with regard to rye: During the first month of the investigation, May 9 to June the growing rye reduced the water content of the soil 5.89 per cent, equi content of the soil 5.89 per cent, equivalent to a loss of 150 tons of water per acre of 14 inches, over and above that lost on the adjoining cultivated plot—and this in spite of the fact that during that period there had been 21/2 inches of rain. By June 23, the percentage of moisture in the rye the cultivated plot maintained its inidetermination made about dle of July showed but one-third the unt of water in the rye plot com pared with that of the cultivated soil. The data of the oat and buckwheat plots are of a similar nature, though in certain particulars, not quite so pronounced as those from the winter rye

We also estimated the losses of soil moisture caused by growing a grain crop as compared with those resulting from the growth of the legume crops -clover and hairy vetch-and found in every instance that the soil bearing the grain crop suffered the great-er loss. This is probably owing in a large measure not to greater trans-piration, but to surface evaporation piration, but to surface evaporation being more active in the grain cover-ed soil; the soil carrying the clover and vetch is much shaded by their foliage, and thus evaporation is checked.

The effect of the various legume crops upon the soil moisture has been very fully studied. As it would be impossible now to recount all our experiments, I would present the fol-lowing summary of the results ob-

Soil moisture is retained by cultivation, is lost growing a crop. This is true of course in spring, summer and autumn and, consequently, in this system, we have a means of controll ing the water supply of our orchard trees at all seasons during which it

may affect their life or thrift.

The difference in the moisture content of the soils from adjoining plots, the one under cultivation, the other supporting a growing crop, is de-pendent upon several factors: In amount it may vary from a few tons to more than 200 tons per acre, in

the surface 14 ir hes of soil.

The larger the rainfall the less the difference in moisture content of these two plots, and vice versa. Cultiva-tion is all the more necessary with a restricted or limited rainfall.

The amount of transpiring surface or foliage materially affects the loss of soil moisture; the larger the crop the more water it takes from the soil

The character of the soil determine in some measure the extent of the loss. If capillarity is easily set up in the undisturbed soil, viz., that which is bearing a crop, water escapes by reface evaporation.

The shade afforded by a cover crop

prevents in a degree surface evapora

Cutting the cover crop and using the material as a mulch, checks the loss of soil moisture. some districts and on certain soils growing the cover crop throughout the summer without unduly affecting the water supply of the trees

National Apple Show

It is expected that the National Apple Show to be held in Spokane, Wash., Dec. 7-12, will be the greatest exhibition of its kind ever held in the world. The total value of premiums amounts to over \$35,000. The secre-tary is Mr. H. G. Neely of Spokane. A premium of \$1,500 calls for a car-

load exhibit of 210 barrels or 630 50-pound boxes of one or more varieties. premium of \$1,000 is offered for ex A premium of \$1,000 is onered for ex-hibits of not more than two barrels, boxes, baskets or plates of one variety. The exhibitor of the largest apple of regular shape, with perfect stem and calyx and without disease or blemish, will receive a reproduction of the fruit in bronze heavily plated in gold and mounted on a silver pedestal representing Adam and Eve Garden of Eden.

Tests with Beans and Peas H. S. Peart, Horticultural Experiment Station

Jordan Harbor, Ont.

At the beginning of our work with varieties of vegetables, we endeavored to secure the leading varieties that have been placed upon the market. Although we grew 104 varieties of beans and 109 varieties of peas, many are entirely useless. We would suggest following varieties as those worthy of trial by our vegetable grow ers and kitchen gardeners.

Among the best early beans are Earliest Hopkins Red Valentine, Long Pod Forcer, Davis Kidney, Bountiful Bush, Early Red Valentine, Longfel-low and New California Wax. Prolific German Wax, Dwarf Horticultural Stringless Green Pod, Mighty Nice Stringless Green Pod, Mighty Nice, Rennic's XXX Best Green, Imperial Golden Wax, Giant Stringless Green Pod, Early Red Valentine, ripen some rod, Early Red Valentine, ripen somewhat later, giving a succession of picking. Hodson's Wax was decidedly the heaviest cropper we had but New Pearl Wax, Black Wax, Refugee Improved and Large White Marrowfat are worthy of fo ther trial for late 2000.

The peas which we would recom-mend are as follows: Early:—Briggs' Extra Early, Rural New Yorker, Mc-Lean's Little Gem, First of All, Prolilice as little Gem, First of All, Proli-fic Early Market and Rawson's Clip-per. Medium,—French Canner, Im-proved Stratagem, Telegraph, Bur-pee's Profusion, Heroine, Horsford's per. Medium.—Freneh Canner, Improved Stratagem. Telegraph, Burpove's Profusion, Heroine, Horsford's Market Garden, Mammoth Melling Sugar, Burpee's Quantity, and Dwarf Gray Sugar. Late.—Rennie's Queen, Matchless. Early Dwarf, Brittany Sugar, Bliss Everlasting, Long Island Mammoth, Black Eyed Marrowfat, Marblehead Early Marrowfat, Prodi-gious and Royal Dwarf White Mar-

While there are a number of other while there are a number of other varieties grown throughout the province, these are the ones that have proved to be the best with us this season. Growers should not form the opinion that we are recommending these varieties only. Further tests these varieties only. Further tests may show that some of the others may be superior to those mentioned

\$15 for 25 New Subscriptions

We will give you a cash prize of \$15 for securing a list of 25 new subscriptions to The Canadian Dairyman and Farming World at \$1.00 each. Sample copies free.



to the superiority of the

One of these new features is the One of these new features is the forging and compressing of the barrel and lug all in one piece. This gives the strongest breech mechanism possible to make.

Then the barrels, loop and extension rib are brazed in one process. So the barrels are necessarily straight

and true.

hile the solid top-snap, illustrated below, operating with our new rotary cross-bolt, makes a fastening unequalled for strength. Thus Stevens Guns cannot shake loose.

If you'll send for the Stevens Catalog, you'll learn all about these new Demi-Bloc features, and all the many superiorities of Stevens firearms—shotguns, rifles, pistols. 5c. for postage brings it.

"Guns and Gunning," by Dan Beard—all about hunting and shooting, game, the care of a gun, etc., will be sent, postpaid, for 20c., paper cover; or 30c. cloth, stamped in gilt.





HOW TO BUILD A GOOD FENCE

Fueryone theodies fonce building should gond for our folder on Fernance. Its full of withink information on fence building, tain to worse wire fanding unitary and substantially, describes the many on concrete post making, showing for these direction can be employed as been been as to be a made as the contract of the

the name of this publication when writing to advertisers