

Ontario Apples Ready for Shipment to the Western Markets
Some idea of the extent of Ontario's cousignments of apples to the west mas bo gained fn.in this illustration, which represents one deqis shipments at Point Fidisard. Ont., to the mest.
vince. There is, however, this difterence: Norfolk farmers have learned that the small area on which their orchards stand could be made the most profitable part of their farm. It took time and patience to show this, but under the practical stimulus of Jas. E. Johnson, the energetic manager of the Fruit Growers' Association, this has been realized.

It is from these orchards, scatiered all over the county, that the high class fruit is secured for the Toronto Fruit

Show. How do they select it? This is done very systematically. In estimating the amount of fruit the association will have to market, notification is given where the best fruit is being produced for that season.

In doing their picking and packing in the fall, these growers are able to forward some of their best to the central storage in Simcoe where it is later carefully sorted and packed in the boxes as you sce it each year at the Exhibition held in Toronto in November.

## More Anent Fall Plowing

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I have read with interest the article on fall plowing which appeared in the N-leber issue of The Canadian Horticulturist. As my first experience with fruit was obtained in the Cormwallis Valley of Sova Scotia, 1 know that with the conditions under which Mr. Blanchard writes, fall plowing may have some adrantages. In the interior of Bricish Columbia, and in the colder parts of Nowa Scotia, New Brunswịck, Quebec or Ontario, however, 1 would not adsise fall plowing under any circumstances. It is directly injurious.

The practice of sowing a cover crop has become general in these colder districts. Tine great advantage of this cover crop is that it holds the srow, prevents deep freczing of the soil and thus protects the roots during winter.

During the winter of 1907-9, I riemonstrated in the Kootenay district the benefit of having a cover crop. of two orchards side by side, one had a cover crop ahe other had not-in the latter about
twenty-five per cent. of the trees winterkilled. When plowed under in the fall the protection which a cover crop affords is losi. Then, ton, fall plowing opens up the soil, the roots dry out, and winter hilling resabs.
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Even in such favored sections as the Annapolis Valley or the Niagara District fall plowing has its disadvantages. If begum too early, as in September or carly October, we trees may take on renewed vigor and not become fully dormant, hence winter injury results.
lizith cover crops which live over the spring, much additional humus is added to the soil if they are not plowed down in the fall. Although fall plowing increases the amount of available plant food it is an open question in my mind if any gain may not be lost by washing and lecching of the swit. When fitl plowing is practiced the furrows are generally thrown agriinst the trees. Quite often the soil freezes to the trunks, the bark is injured
and collar rot or canker may set in. Should the orchard be in bearing it is a much easier matter to work under the trees in the spring becatuse in the fall the branches have not had time to gain a more upright peosition athe leswang been bent down with a load of fruit. Late fall or carl) springs surnging with concentrated lime sulphur or white wash is a much more pleasant uperation when one is not obliged to drise over furrows.

## A DIFFEREDT VIEN

Whether. or not time is saved by fall plowing is, I believe, a debatable question. More panticularly when a large crop is in be handled, the energy and equipment of the grower are then taxed to the limit to set the crop picked, packed and marketed. Linder such conditions it is advisalble to put off plowing until the spring and begin then as carly as possible.

## The Fall Web Worm

A pest frequently noticed in the orchard during the month of August is the fall web worm (Hyphantria textor). This insect should not be confused with the tent caterpillar (Malacosoma Americana), which builds its nest earlier in the season. At the time when the web worm appears on the brarches of the trees the tent caterpillar is in the egg stage.

Close observation will reveal that these two insects are quite dissimilar in habits. Probably the most notable difference is in the character of the web. The web of the tent caterpillar is usually found in the croter of limbs, while that of the web worm $:$ : generally seen on the ends of the branches. The tent caterpillars remain in the web during the night, or when resting, and emerge only at feeding time. The web worm docs not leave the web at all and extends the web as new feeding ground is required. For this reason the web becomes very unsightly, being filled with the cast-oif skins and excrement of the insects. In feeding habits these two insects are also quite different. The tent caterpillar devours the whole leaf, while the web worm feeds only on the upper surface, giving the leaves that characteristic brown appearance.

The parent moth of this eaterpillar is pure white in appearance with occasional black spots. It spends the winter in a coomon and appears in carly summer. The eggs are laid in patches on the under side of the leaves. The caterpillars emerge in July imd August. and at once proced to form their web. When full grown they are albout one inch in length. They then spin their cocnon and pass the winter in this stage.

The most rontenient method of combating this pest is to cut off the webs as sonn as they are noticeable. As the webs are usunlly found at the ends of

