HORTICULTURE

Fruit Institute at Iroquois

On April 15 and 16, a fruit institute meeting was held at Iroquois. The speakers were Mr. Harold Jones, a practical grower of wide repute from Maitland, and Mr. J. W. Crow, of the Ontario Agricultural College.

Ontario Agricultural College...
Mr. Jones opened the meeting with
a discussion on selection and location for orchards. He emphasized
the necessity of good drainage, indicating from examples from all over
the Province that those orchards
which are poorly drained are the first to suffer from winter-killing. If there is good drainage the roots reach far is good drainage the roots reach far into the earth with sufficient pure air below the frost level to sustain the vitality of the tree, whereas if the water-table is within a foot or two of the surface of the ground, all the roots will be within two feet of the surface and in a bad winter all will be illusted. Air continue. If three ther-roometers, were placed, one on the mometers were placed, one on the top of a hill, one on the side and one top of a mil, one on the side and one at the bottom, a difference of as much as five degrees will be noted on a still night, the middle thermometer registering the highest. If thereregistering the highest. If there-fore, an orchard is planted on the side of a hill, the drainage of the cold air to the bottom of the valley leaves the orchard in the place of lowest temperature. As to aspect, he has noticed that in the St. Lawrence

has noticed that in the St. Lawrence valley, those orchards which have an East or South exposure do the best. Mr. A. D. Harkness, of Irena, who with his father are the pioneer fruitgrowers of this district, took up the questions of varieties best suited. He recommended first of all the McIntosh, which is a native of this locality and a very marketable apple. Along with it he recommended the Fameuse, also the Baxter, Wolffe River and Alexander. He would plant one-third of Fameuse, one-third of McIntosh and one-third of the other three. In

Sow barley for profit

T won't pay you to grow what everybody grows,-get out of the rut this year and sow plenty of barley. Get 35 bushels an acre from ordinary land,-48 pound bushel,-brought 8oc. spot cash readily last year, -ought to bring more than that this year. Barley is a ready-money crop that too few Canadian farmers grow. Try it-you'll be glad you did.

get an orchard to mature early, he recommended the planting of the main stock 30 by 25 with early-maturing varieties between, the latter to be got out again so soon as any indication of crowding appeared in an indication of crowding appeared in an orchard. For those intervening trees he recommended Yellow Transparent, Astrachan, Duchess, Wealthy and Pippin. The planting of only one variety in an orchard is not wise because of the necessity of cross fertiliz-

Mr. Crow took up the question of pruning and grafting, demonstrating his remarks by an example of a small

his remarks by an example of a small tree.

On the supject of fillers and ore over crops, Mr. Jones gave out something entirely new to u.e fruit-growing world. It is a plan, which has been worked out by himsef, by which a man can grow an orchard up to six years practically without interfering with the yield of that land in other crops. His plan is to manure the ground fully with barnyard manure, plant the trees in straight rows at distances depending on the variety, the McIntosh being not less than 35 feet, 30 by 36 feet being the best distance for McIntosh. During the first year, plant the ground with potetoes in rows both ways and cultivate both ways. Don't digging of the digging of the digging of the potential possible for fear of frost. After the potatoes are due, spread coarse manure at the rate of one load to eight trees, around the trees but not near the trunk, and wrap up the trunks with sulbolt coaper reaching from the trunk, and wrap up the trunks with sulphite paper reaching from the ground upwards about a foot. The the ground upwards about a foot. The manure acts as a cover crop and the paper protects the tree from mice. In the second year, plant some corn in hills both ways, but do not plant too near the tree. Between the first and twelfth of July, sow clover in with the corn. Cut the corn as soon as it is fit in the fall and take it off the field investigate. The eight and the contract of the field investigate. the field immediately. This gives a crop of corn and stand of clover, and erop of corn and stant of clover, and leaves no harbor for mice. In the third year, cut the clover as soon as ready and harvest. Let the second growth grow a firm mat, but look out for mice. The fourth, fifth and sixth years are a repetition of the first, second and third, with the exception, that on the fourth year 200 pounds to the aere of muriate of potash should be applied. From this time oa, the orchard will pay for the use of the ground. Grow clover and plow under and alternate with oats and rye. Continue this system until the ground is shaded too much to allow the crop to grow.

The evening session was devoted

to allow the crop to grow.

The evening session was devoted almost entirely to the question of cooperation in growing and marketing fruit. Under a system of cooperation, a manager could be hired to seek a market for the fruit, to oversee its packing and grading and to arrange for any other business that the society might undertake, such as the engaging of a power-sprayer to do the work of spraying for the whole society, to arrange for central warehouses, to arrange for central archuses, to arrange for fruit, and instruction in whatever might be of importance. portance

portance.

Mr. Jones recommended spraying, just as the blosson-buds are bursting, with the Bordeaux mixture. The second spraying should be done just before the blossoms open, when they are beginning to show color, and the third just after the petals fall. These three sprayings answer for everything three sprayings answer for everything law time as the time when the codling ton, the screep in some seasons, black spot, moth will be caught. The third Eng: J Muggy weather in the summer is all spraying should be made 10 or 15 days minghat most a sure indication of black spot, later, and, to get the best results, 97-100 M later, and, to get the best results, 97-100 M caux, even though the applies be a praying the spraying should know all Ireland. The Fruit Institute is an indication doing the spraying should know all Ireland.

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BOW HANDLES

DAIRYMAN & FARMING WORLD

of willingness of the Department of Agriculture to assist the farmer, and it is regretable that the average it is regretable that the average farmer does not better appreciate such opportunities. The men sent out to any of these Institutes to lec-ture are men who know their busiture are men who know their busi-ness; they are men whose lives are devoted to the subjects on which they speak. Every good farmer throughout the country should know that in failing to attend an institute, when he can, he misses a golden opportunity.—J. G., Morrisburg, Ont.

CANADIA

Bordeaux Mixture

A. McNeill, Chief, Fruit Division,

The orchardist should not imagine that there is any great mystery or difficulty with reference in the ting of the Bordeaux mixture at the use of it after it is made. Almost any of the ordinary directions found in any of the spray calendars will give good results. The material should be fresh made and should be kept agitated. My advice is to keep the growing tissue of leaf and fruit covered as nearly as may be with the thinnest possible coating of Bordeaux mixture during the growing season. Commence when the leaves have just the phown themselves and spray the first of the state of the orchardist should not imagine

