# The Ontario Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep, and Swine Breeders' Associations, and of the Farmers' Institute System of the Province of Ontario.

### THE DOMINION CATTLE, SHEEP, AND SWINE BREEDERS' ASSOCIATIONS.

Annual Membership Pees:-Cattle Breeders', St.: Sheen Breeders', St.: Swine Breedsta', \$2. BENEFITS OF MEMBERSHIP.

Each member receives a free copy of each publication issued by the Association to which he belongs, during the year in which he is a member. In the case of the Swine Breeders' Association this includes a copy of the Swine Record.

A member of the Swine Breeders' Association is allowed to register pigs at 50c. per head; non-members are charged \$1.00 per head.

A member of the Sheep Breeders' Association is allowed to register sheep at 50c. per head, while non-member and hearth \$1.00 per head.

A member of the Sheep Breeders' Association is allowed to register sheep at 500, per head, while nonmembers are charged \$1.00.

The name and address of each member, and the stock he has for sale, are published once a month. Over
r0,000 copies of this directory are mailed monthly. Copies are sent to each Agricultural College and each
Experiment Station in Canada and the United States, also to prominent breeders and probable buyers resident
in Canada, the United States and elsewhere.

A member of an Association will only be allowed to advertise stock corresponding to the Association, to
which he belongs; that is, to advertise cattle he must be a member of the Dominion Cattle Breeders' Association, to advertise sheep he must be a member of the Dominion Sheep Breeders' Association, and to advertise
swine he must be a member of the Dominion Swine Breeders' Association.

The list of cattle, sheep, and swine for sale will be published in the third issue of each month. Members
having stock for sale, in order that they may be included in the Gazette, are required to notify the undersigned by letter on or before the 9th of each month, of the number, breed, age, and sex of the animals. Should
a member fail to do this his name will not appear in that issue. The data will be published in the most condensed form.

F. W. Hopson, Secretary. Parliament Buildings Toronto, Ont.

Reports concerning the work of the Farmers' Institutes in Ontario will be published weekly under this head; also papers prepared for this department by Institute workers. Secretaries and officers having announcements to make are invited to send full particulars to the Superintendent.

## PLANTING AND CARE OF SHADE TREES AND WIND-BREAKS.

BY ALF BROWN.

Farmers generally do not take advantage of the very easy and sure way of adding value to their real estate by planting our native trees in neat lines along road-sides and lanes, around are too rough for cultivation. able soil, although dividends will not be realized from the walnut timber as early as from the apples. the nuts directly where the trees are to transplant owing to the large taproot and the absence of fibrous roots. nut-bearing trees. The walnut begins to bear at Picton when planted from the nursery in about eight to ten years, flavored they are relished by some people. For planting, the nuts should They can be kept out-doors by packing in a box of sand, or may be planted directly where desired. Cover the nuts three inches deep, mulching lightly; keep down grass and When once started the trees increase in diameter about half an inch every American sweet chestnut is grown for commercial purposes mostly in its natural state, but when planted in the clearance makes a good shade The leaves are nicely serrated and glossy, giving the tree a beautiful appearance.

Hickory nuts have become quite popular in the markets, and in selecting for planting, only use from trees bearing good sized plump-meated nuts. farm having 100 shade trees well ar- all possible lines of fruit growing. These and the chestnut require the ranged would sell for \$500 more than orchard was set out last year made up same treatment as mentioned for the a similar farm along side, other im- of apples, pears, plums and cherries,

Farmers' Institute Department. shaped head, and besides being valuable as a timber, shade and ornamental tree, it is a source of the best crop of honey produced by any plant grown in Canada, and as our forests are being destroyed it would be wise to have the basswood planted extensively for the encouragement of apiculture, for trees are valuable to fruit-growers and farmers as they insure fertilization Basswood grows readily of flowers. from seeds.

Sugar, or hard maple, our national emblem, should be planted broadcast everywhere where there is room for a buildings and yards, in clumps on tree, as it may be had in most localiwaste or unsightly places, or bluffs that ties for digging. It grows a symmetriare too rough for cultivation. These cal-shaped head when properly planted places planted with black walnut I and pruned. The soft maple grows believe will be as good an investment very rapily and will succeed on a as the same area of apple or chard on suit- greater variety of soils than the hard maple. Trees in our yard planted eight years are six inches in diameter American black and give plenty of shade for the hamwalnut can be grown better by planting mock. Maples can be dug best with a strong, sharp spade, cutting a circle wanted, as the walnut is a little difficult around the tree 25 to 30 inches in diameter and lifting out the plant with what soil and leaves adhere to it. Cut This condition applies to most of the off all branches and saw off the top not more than seven feet from the roots. The trees that have given us the best growth were one and a-half to and although the nuts are quite strong two inches in diameter a foot from the When growth ground when planted. starts rub off all buds except a few at he gathered when ripe and not allowed the top of the bare trunk to form a head.

Norway spruce is the best evergreen for practical use in Ontario, either as a windbreak or as an ornamental tree. It makes a dense upright growth of weeds, and use plenty of manure uniform shape and is very attractive planted alone or alternately with deciduous varieties. Keep trees well mulched which comes nearest to their might be called a fruit section. natural condition. The writer does not favor planting trees any thicker than they are to remain, except where straight long trunks are required for timber, for it requires more courage than most men have to thin out a row of trees when once they are estab-Basswood, when planted in provements being the same. Where which contains all of the leading varie-

than a mile from the place where may be expected to be of value. In the plant 100 trees every spring.

Possible injuries. -(1) Where plant- favored fruit sections. ed too thickly so as to form a windcirculation of air might be prevented gus growth. (2) Encroachment—adjacent crops will certainly be injured. but a good windbreak or line of ornamental trees are well worth the land

they occupy.

assimilated by growing crops instead most value for those parts of the of being hurried in the air by heavy country where the Concord is too late. winds. For illustration of this point, the Report of the Superintendent of Farmers' Institutes for 1895 6, page 60, which shows that wind hastens the will ensure a good crop, which might (3) Snow and leaves are retained and so many fruit trees; also the loss from berries, currants and gooseberries. windfalls is reduced. (5) Erect growth in fruit trees is difficult without protection from prevailing winds. (6) Encouragement of insectivorous birds. By F. C. HARRISON, Bacteric gist, O.A.C., Guelph. This advantage alone is worth the land and care required to have a good windbreak where the birds will build their nests and bear their young largely on insects that destroy our crops. These birds and their nests should be protected by legislation, including the extermination of the English sparrows which are driving useful and friendly birds out of the country by destroying their eggs and taking possession of the nests for their own use. (7) A farm beautified by shade trees is enjoyed both by the travelling public and by the farmers themselves.

## Ontario Agricultural College.

Announcements concerning the College work will be published weekly under this head.

## FRUIT GROWING AT GUELPH.

By H. L. HUTT, B.S.A. Horticulturist.

The climatic conditions at Guelph render this section far from being what For this reason the results of fruit tests of tuberculin. made here will have a wide application, as what will succeed at Guelph may reasonably be expected to succeed in almost any other part of the province.

In the horticultural department at lished. The farmers at the Institute the college an effort is being made to the clearance, forms a pretty compact young trees can be found not more ties, and many of the newer ones which growth is active heal most rapidly.

needed, the 100 trees can be selected, the course of a few years this orchard dug, trimmed and planted for \$5, if should become the source of much work had to be hired, but most valuable information to the farmers farmers are strong handed enough to and fruit growers of the province, and particularly so to those in the less

In grape growing it has already been stop, which is not desirable. A free proven that only the earliest ripening varieties may be expected to properly and thus encourage insects and fun-mature in the average season. Varieties ripening with, or later than, the Concord, cannot be depended upon in one season out of five. A new vine-yard will be put out this spring, made up of all the earliest varieties that can Decided advantages. - Evaporation is be obtained, in order to find out by lessened and the moisture in the soil practical test which of these will be of most value for those parts of the

With the small fruits, however, there refer to Prof. Panton's experiment in is hardly a section of the province in which the most of these, such as strawberries, raspberries, currants and gooseberries cannot be grown in great moisture out of the soil. (2) Protec- abundance. Large collections of the tion of bloom from cold, rough weather different varieties of these are already under test at the college, and will be from exposure result in a light yield. reported upon from year to year in the annual report. In the report just help to retard fruit bloom in localities issued is given the results of last year's subject to late spring frosts. (4) Less tests with 150 varieties of strawberries, injury is sustained from wind when as well as a report on the first crop of trees are loaded with ice which ruins a large number of varieties of rasp-

#### TUBERCULIN.

The tuberculin manufactured by the Bacteriological Department of the Ontario Agricultural College is now sent out either concentrated or diluted. Those applying should state whether they require the concentrated, which possesses good keeping qualities, or the diluted, which does not keep so well, but is ready for immediate use. To veterinary surgeons the cost is ten cents per dose, diluted or concentrated, but to farmers desirous of testing their own cattle the tuberculin is free. In all cases the applicant is asked to fill out a blank form arranged for recording temperatures, and return it to this department. No name or address is asked for, simply the record of the

The department has recently purchased a large incubator, or fixed temperature chamber, where a temperature that will not vary a degree in months may be maintained as long as desired. With this addition it will be possible to manufacture a much larger amount

The manufacture of mallein, a substance similar to tuberculin, but used for diagnosing glanders in horses, has also been started, and in two or three weeks' time a supply will be ready. During the last three months 853 doses of tuberculin have been sent out to meeting at Glen Allen, estimated a ascertain what may be done there in farmers, and sixty-three closes to veteri-An nary surgeons.

Trees pruned in the spring when