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 Feet:-Cattle Breeders' \$1: Sheep Breeders', \$1: Swine Breeders', \$2.

BENEFITS OF MEMBERSHIP.

Bach 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 Swin

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-shers are charged \$1.00.

The name and address of each member, and the stock he has for sale, are published once a month. Over so,coo 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 a Canada, the United States and elsewhere.

A member of an Association will only be allowed to advertise stock corresponding to the Association to hick 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 swinch he must be a member of the Dominion Swine Breeders' Association.

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. Member having stock for sale, in order that they may be included in the Gazette, are required to notify the under signed by letter on or before the plut of each month, of the number, breed, age, and see of the animals. Shoul as member fail to do this his name will not appear i hat issue. The data will be published in the most co

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

SOME OF OUR NEWER WEEDS.

By T. C. WHEATLY. (Continued from last issue.)

But with advancing settlement, and especially since the introduction of railways, scores of fresh ones, and among them some of our very worst ones, are being steadily introduced. As instances of unsuspected ways in which weeds are sometimes introduced, I might say that Darwin, the noted naturalist, found in six grains of earth adhering to the feet of a plover three kinds of seeds, and in mud sticking to the feet of ducks and geese shot in England seeds peculiar to the Victoria Nyanza in Central Africa. In mud sticking to the feet of a Texas steer the seeds of five different kinds of weeds and grasses common in Texas were found by a microscopist after the arrival of the animal in New York. In my own experience, in a mixture of imported grass seeds, bought of a firstclass seedsman, I found four kinds of weeds I had never seen before, though I thought I had studied nearly all our common weeds.

Before proceeding to describe a number of the newer weeds in my collection, I would like to impress upon you the importance of knowing the much so here. Has been noticed at names of our weeds, as it is a great a few points. help in recognizing them when they first make their appearance. It is then ed at Port Huron, Michigan. A larger that the most satisfactory work can be weed than our common rag-weed. done in preventing their spread. Know them, and then you can nip them in time saves nine" truly in dealing with weeds. If the prelate in the east who garden from Europe, had known it to be a bad weed, he would have saved himself the discredit of having it believe to be our very worst field annamed "the bishop's curse," the name nual, as the purslane is our worst by which that weed is known in a certain locality. I realize that to know the weeds implies some acquaintance Campbellford. with the science of botany, a knowledge at present not possessed by many. But botany is one of the subjects now required to be taught in our public schools, and I would like if I could get the ear of our school trustees generally so as to persuade them to give

every encouragement to our teachers to begin the practical study of this subject. This could easily be done by encouraging pupils to bring specimens of their weeds to school, and all the mustards. have them identified, pressed, and mounted. Thus the subject could be taught with very little effort, and that of a very pleasurable and taste inspiring kind. This is one of the many instances in which a farmer needs to Perhaps the very hardest of our creepknow his business thoroughly, as any business or professional man needs to know his in order to be successful in it. A leading educational authority in this province said lately, in one of our farmer in a dozen could give the generally accepted common names of twenty of our common weeds. I am afraid this is too true, and if so calls for a remedy.

I will now give a brief description ing on sandy soils. (reference being made at the same time to the mounted specimens) of some thirty of our newer and worst weeds, accompanied by comparison with comaccompanied by comparison with com-moner forms said to aid in identifica-in England. tion, viz.:

Great rag-weed. - Specimens collectweed than our common rag-weed.

Creeping or perennial sow thistle. Very generally introduced in the the bud so to speak. "A stitch in counties of Ontario and Durham. One of the most aggressive and difficult to portation from the South. eradicate. Strenuous efforts should be introduced the blue weed into his made to destroy it and prevent its spread.

Prickly wild lettuce .- Destined I garden annual. Spreading fast in Bladder ketmia.—Collected the past Lambton county and I am told about summer in a field being overrun with

Wild tare, often called wild pea The cultivated tare, escaped as a weed except in seed or manure, but one of the most difficult to eradicate.

Ox-eye daisy has got a firm hold in ing our roadsides an unsightly tangle.

from the crown enables it to run out most grasses. It should be resolutely

English plantain and tall buttercup.

as that class.

White cockleand night blooming catchcome in clover seed. They should never be allowed to go to seed.

Indian chickweed is spreading in Essex. It may become almost as troublesome as purslane in the garden.

Field speedwell, also purslane speed-

found these three weeds very troublesome in strawberry ground. They are all annuals, making rapid growth in tical way by Prof. John Craig, in early spring and seeding by the first of Tune.

Tansy mustard. - I am not sure but this is the tumbling mustard of the Northwest Territories; a bad one, like

mustard family, and, like red-root, pigeon weed, and other winter annu

ls, is bad in fall wheat. Black bindweed (field convolvulus).

ing rooted perennials to kill. Field pennycress. — Stinkweed, or French weed of Manitoba; a very bad pest in Manitoba, and is becoming so papers, that he did not believe one annual, and grows and seeds throughout the summer.

worst of the sheep burs.

Spurry.-A bad weed, though recommended by some for green manur-

Biennial artemisia. - Bitter like ragcrops on moist soils.

Wild barlev (Squirrel tail grass).—
Considered one of their worst pests in Russian thistle.—A great scourge in Considered one of their worst pests in the Dakotas, but not likely to be so hay fields in the Northwest, and may come to us in timothy seed brought from there.

Wild oat.—Great care should be taken not to buy seed oats from farms infested with this weed, as when once introduced on a place it generally "comes to stay."

Crab grass .- A most noxious im-

Bur grass.—A miserable pest.
Nut grass.—A sedge. Propagates by little tubes. It is scarcely possible to ever get rid of it if once introduced. Potentilla recta.-A new cinquefoil

coming in on the Niagara frontier.

Now in Ontario.

it. Now in Ontario.

To these I may add some roadside weeds: Blueweed, atriplex, wild chicin some field, is also called by the ory, velvet leaf, teasel elecampane, and same name. It is not liable to spread even sweet clover. It is necessary to even sweet clover. It is necessary to exercise unceasing watchfulness to pre. ground, deep at first, but finishing at vent these and other weeds from mak, an inch and a half.

many places. Its habit of stooling GROWING POTATOES AND PREVENT-ING DISEASES.

By ALP, BROWN, Picton.

The abundant crops of 1895 and —Also two troublesome weeds in grass lands, and apt to find their way into clover fields.

1896, together with an overstocked market and low prices, had the effect of many growers becoming indifferent Badder campion.—Not creeping in caring for the crop of 1897, the re-rooted, indeed, but just as hard to kill sult of which was a light yield of poor quality. The heavier soils are not capable of producing the best quality of fly resemble each other and are apt to potatoes at any time. The lighter and more suitable soils did not give satisfactory yield and quality in 1897 on account of plants being killed by blight long before completing their growth. The writer invites the indulgence of the Field speedwell, also pursiane speed reader while briefly giving his experience well and Alyssum calycinum. I have on this subject. No attempt will be made to describe the diseases of the potato, as this is done in a very prac-Farmers' Bulletin No. 23, of the Central Experimental Farm, Ottawa.

ROTATION.

We practise a three-year rotation, as nearly as possible, on all our land ex-False or wild flax belongs to the cept what is down to pasture and fruit, and depend upon medium red clover to keep up the fertility. It may be said that we go through our rotation backwards, or in the opposite way to the common practice. Most people apply manure to the land before the hoed crop; we top-dress in the fall winter, after the corn, potatoes, or whatever hoe crop we use, hauling and here in many places. It is a winter spreading directly from the stables whenever the ground is frozen enough to bear a team. Our object is to mulch Spring clot bur or cockle bur .- The and fertilize all we can, to insure a good catch of clover which is sown with the grain crop. All corn is cut for the silo and all straw used for feed and bedding is cut, so that there is no clogging of implements in working the manure weed. Have seen it a bad pest in root in the surface soil with harrow and

CULTIVATION.

Cultivation is commenced by ploughing the clover sod late in the fall and harrowing, cultivating, and gang ploughing in the spring, and, when ready to plant in May, strike out and plough in wide lands, dropping fresh cut seed, fiifteen inches apart, in every third furrow, about six inches deep, the furrows thirty inches apart. Two good hands will with a curved knife cut and drop the seed as fast as the ground can be ploughed by one team. Harrow crosswise and lengthwise every few days up to the time the plants are three or four inches above the ground. If the work has been well done up to this time there will be little need of a hoe in the field. Scuffle on the level, for Bladder ketmia.—Collected the past the more ridging that is done the more surface will be exposed to be dried out by sun and wind, and the greater amount of soil moisture will be lost. We scuffle once a week, or as soon as the soil is fit to work after every shower, up to the time the plants shade the

(To be continued.)