Farm and Field

We read from time to time, and have done so for many years past, of vast hordes of locusts darkening the sky, as they sweep onward, from unknown breeding grounds; how they devastated the crops and ate up every living leaf in any locality they happened to make a stopping place, and in fact left behind a desolate and leafless waste where a few hours previous all had been lusury and brauty. Such is said to be the case, at times, in parts of Africa, India and certain South American countries. There is, however, no longer any mystery connected with these visitations. Science has explained all that; has discovered the breeding grounds and is doing much to eliminate the injury by guarding against attacks and providing for them when they occur. We are not, as a rule, apt to associatour common grasshopers—many of which however, are true locusts—with those devastating species. In fact, of all our many different kinds we usually claim but one as truly migratory, namely, the Rocky Mountain locust, Melanoplus spretis, the locust made famous by having a special commission appointed to investigate its ravages. This species, in the past, has done immense damage to vegetation mostly in the United States, but it also invaded a great portion of Manitoba in the seventies, and is specially remembered on account of its having practically swept, the Reck Wiley clear of vegetation. Since then there have been two minor outbreaks confined to Southers Manitoba, the locusts having evidently flown from somewhere south. In spite of the prevalence of this species in Manitoba at times it is very doubtful whether it can be classed as a native, a distinction which, after all, we are not anxious for.

It is a wonderful thing this migration. Few animals are free from a desire or instinctive stimulus to move to other parts, and so spread the species. Plants, also, are constantly doing it by means of their seeds, and those that cannot go far by their own exertions, fasten themselves to such as can, and so, as with ourselves, air, land and water, ar

hour, though leaser winds, as well as higher, are used to advantage; becoats seldom fly, however, when the wind is blowing hard.

It is interesting to watch these movements on a gusty day, when calm one moment and breeze the next. Then every freah gust is taken advantage of and one sees hundreds of locusts rise on such occasions, as if having waited their opportunity. It is the same while looking up towards the sun, one moment will only discover a few, the next a perfect awarm moving at different angles owing to the breeze having slightly different directions at different heights, and so the journeys continue, first east, them west, south or north, as the wind varies. At night they apparently drop to earth to infeat new neighborhoods or perchance rise and move elsewhere next day. But not all go, as for some nature has made a wide provision. Some are endowed with long wing; these are specially built for locomotion and conveying the insect long distances. Others of the same speries have short or rudimentary wings which oblige them to stay at home. So that while the long-winged forms seek newshomes, there are enough short-winged brothers and sisters to carry on the work at home and incidentally the work of destruction also.—The Ottawa Naturalist.

FARMERS' MEETING

The farmers of Lanigan, Sask., at their regular fortnightly meeting on December 23, discussed the relative merits of plowing



ritan" Potatoes weighing from 2 j to 3 j lbs., grown on the farm of Jas. Johnston, Beresford, Man.

merson and the farm of Jas. Johnston.

Beresferd. Man.

and of burning the stubble and discing for the second crop after fallow.

While not much actual data was available as regards the best method to pursue in this particular district, it was thought that burning the stubble and discing would give the best results on account of the extra moisture secured by the stubble holding the winter's snow. Plowing in the fall might be considered advantageous in some respects, but at the expense of a lessened amount of moisture.

Peter Polson gave a very interesting secount of his observation on this subject, gathered while on his trip West. In part he said, that in some districts he had been in, the farmers followed the burning and discing method for the second crop and fallowed for the succeeding crop of oats or flax, then fallow again. This, of course, to apply to well worked fallow. He considered it a success and thought it should work here, although perhaps our soil was a trifle lighter.

"The best method of summer fallowing." This question provoked more general discussion as fallowing is beginning to be practised to a considerable extent in this vicinity. The majority of the members were in favor of plowing once as early as possible and thereafter cultivating

and harrowing as often as necessary to keep the weeds in check and conserve the mointure. Late plowing was considered a great mitake as thereby the very object of fallowing was defeated. For working the fallow a spring tooth cultivatur was said to be better than the disc, but even the cultivator was said to be a failure by those who have used them, if the weeds were allowed to attain a strong growth. Mr. A. McDonald had used a packer the following spring, but thought it could, be used to good advantage immediately after plowing. Mr. L. Dunn had found the wild rousdoath the weed hardest to get rid of, and said that plowing should be carefully done so as to en sure the cutting of all weeds. Though the general idea is to plow deep, one member thought that when the land is new, that is to say, when one or two crops have been labely that the land is new, that thought that when the land is new, that is to say, when one or two crops have been taken since breaking that it is not so important to go as deep, as there is still acceptain amount of humous and organic matter in the soil, which helps to retain the moisture and produce a good crop. In his opinion the depth and character of the surface soil should regulate to a certain extent the depth. to which that soil should be plowed, and in any case the lower soil should be brought up gradually

FLAX GROWING

FLAX GROWING

Editor Guide:—I read with interest your article on flax growing in the issue of December 21. Among the things you mentioned was that a movement was started some time ags to establish a factory in Winnipeg to utilize and convert into commodities flax straw. Such an enterprise would certainly boom the growing of flax here, and it can be very successfully grown in this country.

This year I sowed one hundred acres of flax on spring breaking and harvested fifteen bushels to the acre, which I sold for more than \$2 a bushel, and paid memuch better than wheat would have done on a good field of summer fallow. I disced the land twice in the spring and pulverized the land up as much as possible, as flax always does best on a good seed bed owing to the seed being slow to start, and from the fact that the plant derives most of its food from the sold during the first month. I might mention here that Lbroke my land with a motor plow and found it a fast and very satisfactory method. I also sowed fifty acres of oats on breaking and harvested a bumper crop.

In regards to sowing oats with flax I.

erop.

In regards to sowing oats with flax I have not tried this scheme, but many of the farmers around here have grown the two with success. I should think flax would grow equally well when sown with wheat on fields that the grain was inclined to lodge, although I have never seen it tried.

Moose Jaw, Sask

ROTATION OF CROPS

ROTATION OF CROPS

Editor Guide:—The agricultural columns of your December 14th issue contained a letter from Mr. Lynch, and
you invite farmers to express their views
on the system outlined therein. In the
first place I wonder if this is a plan which
Mr. Lynch has in view for future practice,
or if he is actually following it, and if so,
for how many years has it been followed?
I am convinced that, with an eye to the
future, we should change our methods
of farming, but I am doubtful of the
success of the changes suggested. If
I understand his letter aright, this system
would call for a farm to be divided into
6 fields, and in the case of a half-section
each field would be approximately fifty
acres after allowing for waste land. The
crops on these fields would be about as
follows:
Field No. I would be devoted to hay

Field No. 1 would be devoted to hay

rst crop). Field No. 2 would be devoted to hay (second crop). Field No.

(second crop).

Field No. 3 would be pastured and broken in fall.

Field No. 4 wheat (first crop).

Field No. 5, wheat, (second crop).

Field No. 6, oats, and with the seed would also be sown grass seed for the

ame rotation.

Now for my objections to this plan.

Flere would be too little wheat, only oneall the general experi-Now for my objections to this plan. There would be too little wheat, only one-third of the farm, and the general experi-ence in this district is that wheat following third of the larm, and the general experience in this district is that wheat following two or three crops of grass is anything but a success. It is probably a clean crop, but for some reason—most likely the dry state of the soil—it is the poorest, yielding wheat on the farm. Then, again, there would be one hundred acres of hay, quite a large amount to be handled properly and in season, especially if the



weather should be catchy. Sometimes there is a good sale for hay and sometimes the reverse. Of course the ideal way would be to feed it to stock during the winter and return the manure to the land; but taking into consideration the labor involved and the amount the farmer receives for beef—usually around three cents—the question arises," will it pay?" Or rather, "will it produce as good financial results as our present system of growing more grain and fallowing a portion each year?"

It seems to me the time is not yet ripe

each year?

It seems to me the time is not yet ripe for such a radical change. If one crop of hay were eliminated from this rotation and four fields given to grain instead of three it might be better; but after all, summer fallowing a field does not necessarily mean that a year is lost for that land, as at least two succeeding crops reap the benefit of the stored up moisture, and a moist soil is not a bad proposition in this land of limited rainfall.

Reston, Man.

SEED CONTROL ACT

SLED CONTROL ACT
In an address before the Live Stock
Association Mr. T. G. Raynor, Ontario
representative of the seed branch of the
department of agriculture for the Dominion, pointed out many good points in the
Seed Control Act. He said:

soe, pointed out many good points in the Seed Control Act. He said:

"There are not many men who would go to the cupboard and take a dose of poison, and yet I fear that many farmers in the past, and some at the present time, are acting in that way so far as their land is concerned. They do not make a close examination of their seed, and they poison their farms with the weed seeds. The Seed Control Act was framed for the very purpose of safe-guarding the farmer in this respect. The act was passed in the interest of everybody concerned in bandling seed. Some thought it was framed in favør of the farmer to the exclusion of the seed merchant, and others have thought that if tavored the seed men and was very hard on the farmer.

Five to the Thousand

Now I want to say that the act applies

Now I want to say that the act applies to the farmer the same as it does to the seed men when he sells clover or timothy seed for seeding purposes to his neighbor. If he is selling to a neighbor and delivering on his own premises the farmer has an exemption privilege, and many farmers have jumped to the conclusion that that applied alike to timothy, clover and alsike. Now, I want to say that it does refer to weed seeds, but it allows the farmer to sell certain seed without putting any label on the package, such as a seed mer-Continued on Page 28 Continued on Page 26

The "BACON" Seed Drills and Cultivators

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