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J. D. Wallace, Psterboro Co., Ont. Shall we plow deep or shallow? s a general rule we may say, that plowing in the fall, plow deep. If plowing in the spring, plow shallow, though there are exceptions to this

Deep plowing in the fall has the ad-Deep prowing in the rail has the au-rantage of opening up the soil to a greater extent and so exposing it to the action of the frost. This has the effect of breaking down the large soil effect of breaking down the large sour particles into smaller particles and thereby making the soil more mellow for the reception of the next crop. It also aerates the soil, which is a fundamental necessity for the best couch of plants. growth of plants.

growth of plants.
We should not forget that the
the deeper we plow and the more we
break down the large particles, the
more retentive will the soil be of
rain water, thereby having a greater
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moisture capacity.

In some suils it may be desirable to plow shallow in the spring as well as deep in the fall. This is the case with heavy cay soils when the fall that heavy cay soils when the defect of pudding to two parts and thereby making it too compact. Another reason why we should plow shallow in the spring is that it has the effect of making a greater surface exposure to the heat rays of the san. This warms the surface soil. face exposure to the neat rays of the sun. This warms the surface soil, which is very important, particularly where we are sowing corn. The shal-low plowing is frequently done on soils whose lower layers remain wet

soils whose lower layers remain wet late into the spring. The nature of a soil will also to a The nature of a soil will also to a large measure decide what treatment we shall give it. A hard pan subsoil generally requires deep plowing, as it affords a more efficient drainage. The plowing of the surface soil. Adout that surface soil happen to be done it as wery important in the case done. should that surface soil happen to be deep, is very important in the case of deep rooted crops, such as pota-tose, since it permits of greater extent of root growth of the All poor soils should be plowed deep, but a soil whose tupper layers, we side and whose lower layers, we

deep, but a soil whose upper layers are rich and whose lower layers are poor should receive a shallower plow-ing. Particularly should we follow this practice in a case where we are going to plant a shallow rooted crop. While the deep plowing of clay soils

allows a deeper percolation of the water, it is not wise in the case of water, it is not wise in the case of sand where the dramage is generally too free. That is why in the case of loose soils we recommend a shal-leser plowing and also an annual plowing at the same depth, encourag-ing a firmer subsoil whereby the water will better supply the plant.

Fall Application of Phosphates By W. H. Frazier.

By W. H. Frazier.

Only slowly available commercial fertilizes should be applied in the fall of the fa which has 10,000 opening

Acid phosphate is made by thesting he rock form with sulphuse acid, ut this makes the phosphorus cost about four times as much in this more variable form. For fall application, lowever, the ground rock phosphate s better because of its cheapness, be-

FARM MANAGEMENT strength longer, and will benefit the following crops. In fact, it is two or three years before much first phosphorus is regarded as williable for use by plants, but this depends on the different control of the cont

APPLY WITH MANURE.

APPLY WITH MANURE.
When much humus or decaying vegetable matter is present, acids are formed which act on the rock phosphate and set the physician through the reason for the application of barn yard manure mixed with the raw rock phosphate, at the rates of from 154 to reason for the application of barn hard and the rate of from 154 to reason for the rate of from 1

yard nature mixed with the raw rock phosphate at the rate of from 150 to .00 pounds of phosphate per load of phosphate about 1.000 pounds of phosphate about 1.000 ten shown by poorly filled heads of grain, but this may result from the causes. Phosphorus aids in the velopment of the seed, and where it had the control of the seed, and where it had the control of the seed, and where it had the control of the seed, and where it had the control of the seed, and where it had the control of the seed, and where it had the control of the seed, and where it had the control of the seed, and where it had the control of the seed and where it had the control of the seed and where it had the seed and where it had the seed and where it had the seed and where t he light, even though the straw ap-pears heavy enough for large yields. Continuing grain growing has un-dealing the property of the property of the doubtedly of the property of the pro-cially when no burnyard. Another eason for plowing under Mandard manure or green crops with property phosphate arriser from the increased bacterial action which tends to break bacterial action which tends to break up the phosphorus compounds and bacterial action which tenus to break up the phosphorus compounds and make them available for the growing

Rural Depopulation Creates a Crisis in Ontario

(Continued from page 4)

But the abandoned dwelling is a lesser evil than the weakened house-hold. In Grenville, for instance, the hold. In Grenville, for instance, the average number of persons per family fell from 4.42 in 1901 to 4.07 in 1911. "Family life that averages only four persons to the household through a persons to the household through a community of over 17,000 persons, can suffer little further diminution and

continue."
A third line of social strain is seen
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hole good of our urban population
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that the rule of huma general as to be astounding. In only 40 of the 920 townships and other rural 40 of the 120 townships and other rural divisions do females outnumber males." In East Middlesex, for in-stance, the predominance of males is 518, and in the west riding 469. In only one county in Ontario, Grenville, do females exceed males in the purely do females exceed males in the purely rural population. And in all of On-tario the excess of males over females tario ine excess of maies over females in the rural population is 85,940, while in the cities the excess of females is 10,865. This anomaly holds true not of Ontario only but of all rural Can-

The influence of such a situation on the well-being of the country church, of rural education and above all, of rural social life, is only too apparent, Mr. Macdouval does not stop with picturing conditions, and in Farm and Dairy next week we will review the economic causes that he gives for de-population, the economic solution to the proposals and his views on the social causes of unrest. Likewise we may give a few of our own.—F.E.E.

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