Dry Farming, East and West

(Continued from page 4.)

imps dead air is imprisoned. The lemps and dead air combined will have vent the rising moisture from the subsoil for next year's crop. Dry farming provides two conditions of moisture control. It prevents loss by evaperation, so that any water that gets back into the atmosphere must be fed to it through the leaves of the growing crops, and it provides facilities for the rapid sate of moisture to the feeding crops, and it provides facilities for the provides of moisture to the feeding crops, and it provides facilities for the growing crops, and it provides facilities for the growing crops, and it provides facilities for the growing the second of these provision, unless the second of these provision, unless the condition of the growing could be considered to the condition of the growing could be considered to the condition of the growing control of th

Cultivate Before Plowing.
By thoroughly disking the stubble before it is plowed, this condition is provided. The plow will turn the pulbefore it is proved, this condition is provided. The plow will turn the pul-verised soil down and throw the hard lumps up to the surface where they in turn can be reduced by cultivation. From top to bottom of the furrow silee, the soil is therefore broken up and rendered as fit absitation for the roots of the coming crop. What cultivation leaves undone will be finished by the frost. The loose soil will be in a condition to absorb the fall rains. When winter closes down and this water is pul into cold storage, the expansion due to freezing will complete the job of producing that crumb structure of the soil so favorable to plant development.

ment.
To thoroughly break down the struc-ture of the soil that has resulted from the baking process to which it has been subjected this season should be the chief object of fall cultivation. Lamps in the soil are worse than use-less. The plant food in them is out of the reach of the rootlets. They take up room and hinder root growth and the movement of soil water. Plant food is absorbed in the root solution. It is dissolved by the thin film of water that surrounds the soil grains and is carried into the roots when this si absorbed. The fewer the lumps the greater is the surface exposed to film greater is the surface exposed to film water and the more food is disasolved. Some one has culmated that there are three acrees of surface expased in a cubic foot of ordinary lows soil in good tith, which figures gut to about 10,000 square miles in fice first six inches of soil on a 100 afree farm. This represents the area exposed to the dissolving actics of water. Under given conditions of fertility and moisture supply, the plant food liberated is proportionate to the area exposed. Good tillage may increase the interior surface of the plant food liberated is proportion-ate to the area exposed. Good tillage may increase the interior surface of the soll on an average sized farm to an amount equal to the area of half a

dosen countries.

Good crops are secured, not by depending on wet seasons, but by providing against dry ones. To handle
the soil so as to secure good crops,
even in a dry year, is dry farming.
The average annual precipitation may
change the conditions, but it does not affect the principles involved. Experience has shown that no matter where eace has shown that no matter where a man farms, whether it be in Idaho, Southers Alberta, Ontario, or the Maritime Provinces, moisture conservation in one of the first considerations. The principles of dry farming are equally applicable in the semi-arid dry belt and in the comparatively moist chimate of Eastern Canada.

Points on Silo Building

EFORE beginning to build a silo Beroite beginning to build a sile of the principles of sile construction. By keeping the following points in mind a satisfactory sile will be secured. They apply equally to all cases, no matter what material is

The walls must be airtight..
The walls must be smooth inside. The best type of sile is round.
The roof should be waterproof.
The substances should be substantal enough to stand great pressure.

The cost should be from \$2 to \$5 for each ton of capacity if the total capacity is to exceed 100 tons.

A silo should be placed as near as A sile should be placed as hear as possible to the place where silage is to be fed and should be on the least exposed side of the barn. One hundred tons of silage will

feed twenty-five head of stock for 200 A silo 14 feet in diameter and 35

feet high will hold 100 tons of silage.

Any kind of a good silo is a valuable piece of property on the farm where livestock is to be fed.

An Acre of Alfalfa

WHAT is the value of an acre of alfalfa? Here is what it is valued at in Minnesota, where the cost of production is quite as high as it is in eastern Canada, and where prices for products are some-

where prices for products are some-what lower, owing to the greater dis-tance from the export market: It costs about \$12 to cultivate it. At least 60 per sent of the fer-tilizer value is returned to the soil when the crop is fed.

when the crop is fed.
A yield of three tons will return
\$41.20 if fed to pigs as pasture when
the pigs sell for 7 cents a pound.
A similar yield if fed to steers at
6 cents a pound will bring \$42.60.
The same yield fed to cows giving

The same yield fed to cows giving 210 pounds of butter fat at 30 cents a pound will bring \$44.

Farm feeds should be judged by the total nutriment produced an acre, bearing in mind the cost of production. Alfalfa provides a large amount of nutriment for every kind of stock. Besides this ft provides nutriment for the sell bear of the cost of the co total nutriment nutriment for the soil, hence increasing land value



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Aug. 19th and 29th . From Brockville, Ilgin, Portage du Fort, and Ottawa east to Quebec, including the Ottawa and New York Ry.

Aug. 19th and 3ist . From Toronto east to Chaffeys Locks and Kingston, also north to Thornies.

Aug. 19th and 8ept. 2nd From Toronto west and south, including the N., St. C. and T. Ry.

DESTINATION TERRITORY,—Tickets one-half cent per mile (minimum 50e) till Sept. 30th, 1316, west of Winnipes to any station east of Calgary, Edmonton and Tannis, Alta.

RETURN FARE AND LIMIT .- One-half cent per mile (minimum 50c) to Winnipeg on or before Nov. 30th, 1916, plus \$18.00 from Winnipeg to original starting point.

For tickets and leaflet showing number of farm laborers required at each point, also wages paid, apply to nearest C.N.R. Agent, or Gen. Passenger Depts., Toronto, Ont., or Montreal, Que.

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