May 9, 1918

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One Man and Three Horses Working Against Two Men and Four Horses.

This plowing scene on The Delta of British Columbia graphically portrays the advantage of the three-horse team and the two-furow plow. While the third three-horse team and the two-furow plow while the three-horse team and the two-furow plows and the plower property of the plower property of the property of the plower property of the plower property of the property of the plower property of the plower property of the property of the plower property of the plower property of the property of the plower property of the plower

The Tractor in Ontario

Observations and Deductions by "Mac"

URING the past few months it has been my DURING the past few months it has been my privilege to visit a number of farms where farm tructors are used. Some of these I have seen in actual operation under various conditions seen in actual operation under various conditions and at other places I have merely talked with the owners of them regarding the work they are doing. While these machines are sold as tractors the fact that they can be quite profitably used for beit purposes is a point worthy of as much consideration in the buying of a machine as its value for traction purposes. I think that if more emphasis were laid on this joint both by the manufacturers and the property of the profit of the result of the profit of in the minds of a great many people.

As tractors, what should we expect of them? In the first place they are tireless workers, and if in the first place they are tireless workers, and if in experienced hands are steady workers, but if in the hands of a careless operator, the owner must be pre-pared for lengthy delays of one sort or another. Difficulties are most commonly met when working in bogsy ground. They will do satisfactory work on ground in this condition if run at a fairly high speed ground in this condition if run at a fairly high speed and also not pulling too heavy a load, but if run at a slow speed and working almost to full capacity they will dig themselves into a wet hole right up to the axles inside of a distance of a few feet. He they must be run at a good speed and run light. they must be run at a good speed and run ingit. It the ground is uniformly firm, however, they can be loaded for all they can draw and run as slowly as desired. Slow speed is desirable on account of the ever present danger of striking the plow or other attached machine against stones and obstructions.

When going fast there is more danger of breakage. Regarding belt work, the tractor's great advantage over the ordinary stationary or portable engine lies in the fact that it can be moved on its own power. It is not necessary to take out a team of horses every time the machine is to be moved a few inches.

While there are many farms upon-which a tractor while there are many tarms upon-which a tractor has absolutely no place—very stony farms, farms recently cleared and with the consequent stumps, roots, etc., farms with many poorly drained spots in roots, etc., farms with many poorly drained spots in the fields in which, the tractor is likely to be mired, yet there are ms..., other farms on which one would be a very valuable addition to the farm equipment. Farmers sometimes any "We have to keep horses any way, so why get a tractor." This is quite so, and so farmer should ever expect a tractor to displace horses on the average farm. Any farmer buying a tractor should buy it with the idea of supplementing horse power rather than displacing it, buy it with the idea of congruence of the congrue done; to crop fields which otherwise would be allowdone; to crop neids which otherwise would be allowed to run to unp. ifficile pasture; to get fall plowing done up in the short space of time which the average farmer finds to do it in; and lastly, but by no means least, with the idea of having your own power means least, with the idea of having your own power for threshing, silo filling and all-other work common-ly done by a stationary engine. There is no reason why it should not enable the farmer to do with fewer horses, and it may in many cases, save the expense of buying a portable engine, which would cost as much per horse power as a tractor, if not

I have endeavored to find out what is the best size for the average farmer to buy. The general idea seems to be that a 5-10 h.p. is too small. A man

might as well drive something that will do more work. The that anything more heavy and costs too much for Ontario work. Consequentk. Const that ly I judge that something from an 8-16 to a 10-20 would be about the most practicable size for Such a size is not too heavy for the land, and yet could develop sufficient power on the belt for all ordinary farm purposes.

The price of The price of the tractor seems high. Here again I would refer back to its use for belt power. There are few farms nowadays, la large for a tractor, that have not also use for a good-sized power. In the past the sta-

In the past the sta-tionary engine has been purchased to fill this need. But there is no work done by the big stationary engine that the tractor will not do equally well or better. When the belt use and traction use are considered to-gether, we may change somewhat our estimate of the first cost.

Three Horses on 100 Acres The Farm is Well Worked Too

J. L. Thompson, Oxford Co., Ont.

ONCE heard a spirited argument between two well known farm management experts as to the number of horses that could be kept with profit a 100-acre farm. One of these experts considered

harrow, and occasionally five-section, and a wide working disk seeder make it possible to use three horses to the best of advantage all through the spring seeding. The hired man is the teamster. The spring seeding. The first man is the teamster. The proprietor himself sees that the man does ten good hours' work a day in the field and devotes his own time to the chores and incidental work, which most farms, either interferes with seeding or is enmost farms, either interteres with seeding or is en-tirely neglected. One day during the seeding when i called on him he was pruning in the orchard, while the man was finishing up the spring plowing. Right over the fence his neighbor and his neighbor's hired man were likewise finishing up the spring plowing with two single plows; an extra man employed of the lob but no extra work done.

the job but no extra work done.

This man gained in two days by his system of farming. In the first place he saved the cost and upkeep of one horse. This he estimated a few years ago at \$50, but it would be nearer \$100 now. This ago at \$50, but it would be nearer \$109 now. This gain, however, is the smallest one. Because he has more time for incidental work, the dairy cattle are better looked after and the cheese factory cheque is larger. The grain is always treated for smut, the is larger. The grain is always treated for smut, the seed corn is tested for vitality and they always find-time to get in a first class kitchen garden, and he has what one seldom finds on the dairy farm, splendid assortment of small fruits well attended to He tells me that the ownership of just three horses rate tells me that the ownership of just three horses has never been a hindrance in either haying or harvest, and the work is gotten through just as fast as on any neighboring farm. The horses are good-sized Clydes. Small horses of 1,200 lbs. each could not handle the work

The Silo on the Small Farm

It Doubles Stock Carrying Capacity By Tom Alfalfa

OULD you build a silo on a small farm?" a neighbor once asked me. This neighbor has less than 25 acres of land, and not awfully good land at that He had been growing awruity good tand at that he had been growing an acre or two of strawberries, two or three acres of potatoes and the feed for three cows. Sometimes this strawberry crop was good and sometimes the late frost killed the bloom. He told me-that when the crop was extra good the markets were apt to the crop was extra good the markets were apt to be extra low. The same was true of potatoes; a good crop was accompanied by low prices. "But the cows are always reliable," quoth he. "We san always count on the cream cheque." So he wanted

his hord to six or eight good cows and could see anı except through ello afford the invest ment?

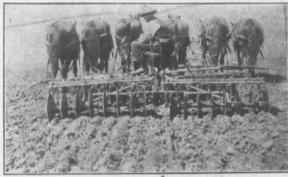
Now. know that War a n d m u c k y mucks farm man agement don't a d v i s e farms small this because their veys show that

farmers with small farms haven't got them. They argue that farmers in the aggregate know what is best for them, and if silos paid on small farms there would

them, and if silos paid on small farms there would be more of them erected. My neighbor and I did a little figuring together, and I advised him to go ahead and build a silo. He immediately got in three and one-half acres of Wisconsin No. 7, and that summer he built a silo. The first 10 feet was built under ground, all cement on the bank side of the barn, the bottom being two feet below the stable floor. On top of this he erected 18-foot staves. The allowas 19 foot in dameter and we estimated that one was the silo was 19 foot in dameter and we estimated that tically the year round with, of course, some patient to allow a summer.

In aumner.

In aumner and the fall Mr. Neighbor filled his silo and six feet in addition with the product of his three and one-half acres of corn. Then he bought in three more good cows. After two years use he told me that



"The Way We do it Out West."

ns illustration shows a Parm and Dairy reader, Mr. W. M. Sanders, of Alberta, working down a manuscration with a un-hard targ, and souble disc Aurow. The more esonomical utilization man power through the greater utilization of horse power is probably better understood and more widely practiced on the western prairies than anywhere see in the world.

three tairly heavy horses to be quite sufficient, while the other placed his minimum at five horses, so that a three-horse and a two-borse team could be worked at the same time. My own opinion is that three good horses are sufficient, and I base my judgment on the experience of several farmers of my acquainton the experience of several farmers of my acquaintance who are working 190 acres with three horses and doing the work well. One of these three-horse farms is right in the heart of Oxford county, and is recognized as one of the best farms in the district. For purposes of comparison I might mention that right over the line fence is a 90-acre farm worked with four horses and the farm work was just anything like as well done. The explanation is found in the implements used on the two farms. My hundred-acre farmer has a three-horse team on the go most of the time. Spring and fall plowing, outside of starting the crown and finishing the lands, is done with a double mod board plow cutting sixteen inches, A big disk harrow, a four-section drag

(Continued on page 30.)

is a large orchard morency cherries. morency cherries.

are also grown on getting started in of the business is b of distributing labor of distributing laboration and the silo has been extended, and it wis a fair-sized dairy best proof of Mr. the modern home to made it possible fe The exterior app has solid brick It has solid brick and a big veranda house. The large of for vegetables, furn signed to aid in the

feature of the first i be entered directly Mr. Hartley find it ing the day to ans take men in on b a decided advanta the muddy seasons floor are several hedrooms, a thre hathroom and in th modious attic are a "The house is larger than we ne our own family," e ed Mr. Hartley.

fruit season, howev have a large numl pickers here. A great brought from the to Milton each day, number of our best ers we have to acce date in our own hom had this requirement our business in mind we built our house." A home such is not built without vance. The Ha studied house plains talked over details many months before rough sketches embo careful planning in vance. The Ha

rough sactches embde their ideas were he over to an archit Mrs. Hartley's broth the way—for "dre up" in a form that understandable masons and carper The contract was the to a local ran, who his work well, as a s did finish both inside out testifies, and