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The Evolution of Corn Cropping Machinery

many years. The profitable production of this crop, possibly even more markedly than in the case of any other farm crop, has always meant much labor. If the more thoroughly every operation is performed the more striking the crop returns, is true of most crops, it is doubly true of this The difficulties surrounding its

profitable production in the way of the arge amount of labor necessary to ensure a good return from the area under crop have, however, effectively attracted the inventive genius of not a few able men if we may judge by the progrees that has been made in such implements as corn planters, corn cultivators, corn harvesters, corn huskers, corn shellers and blowers and shredders. The result is that corn growing to-day is as child's play when contrasted with the strenuous job it was some 30 or 40 years

The writer has been actively interested in the corn crop for 35 years or over. Recently while thinking of those days in the later seventies when as a small boy on a Quebec farm I trudged behind

a team and an eight-foot harrow, slowly getting the land into shape for corn planting, I was struck by this g.eat difference between now and then in so far as implements used in corn growing are concerned.

The accompanying photos attempt in some measure to make that difference clear. The handling of the land from start to finish was slow and laborious in those days, a third of a century ago. It would also have been expensive had not wages



Finds Favor Wherever Tried

The double outsaway harrow here illustrated is one of the few owned in Canada. Mr. H. R. Miron, Brant Oo, Ont.; is now using it for the first time. The implement is highly recommended by Mr. J. H. Griss date whe tells of it in an article adjoint, and the company of the compan

then ruled so low as to make it profitable (while at the same time necessary) to do so much by hand or to expend so much man labor to produce the crop.

How Machinery is Eliminating Manual Labor in Corn Crop Management

J. H. Grisdale



Two Days Work into One, and that easily

I wo Page work into Use, and that vally you come, from a photograph taken on the farm of Mr. Geo. Bir. 9 Co., Ont., we have illustrated the whole trend of modern farm development. The atment development. The atment of the form of the form of the whole the connomination. That too is the sime of the page to define farm maching the bired man earn his wage.

Through clay hub deep in the old tumbril cart the manure was carted from the pile to all parts of the field and laboriously spread either from the cart or from the small piles dumped at well-judged intervals. One's arm and hand remember yet the heave and twist that ripped the forkful of shining "muck" from the steaming mass and sent it whirling and disintegrated to lie ready for the oncoming plow.

The little Canadian horses hitched to the one furrow cast-iron plow (as commonly used in that district) managed to do good work, and to do it fairly quickly, everything considered. The same team on an eight-foot harrow made but sorry headway against tough sod or hard clay, but perseverance finally won out. The ridging of the land with the double mould-board plow into drills three feet apart and the running of the old wooden marker across the same were the final operations before the planting by hand and hoe, or hand and foot as was often the case.

Cultivation was done with the old single walking cultivator. Harvesting saw the trusty sickle brought into operation and the corn set up to dry out in shock before being stored away on the top of the mow or in settling lofts, later to be fed long and dry to the hungry cattle.

Conditions to-day are different. Men demand \$2.00 a day instead of 50 cents as was paid near Montreal at that time. Horses have improved in size at least and implements are greatly changed. The manure spreader as it rolls across

the field, with its small cataract of fertility following, lessons labor and increases manurial values by thorough disintegration. The two-furrow plow with three good horses turns three acres a day. Using the heavy land roller or, better still, the packer, immediately after plowing, then pulverizing with the four-horse double cutaway disc and the 24-foot smoothing harrow makes a much better job at a good dea! less than half the cost for manual labor than in days gone by in spite of higher wages. Rolling the land, then planting with the 20-inch marker seed drill or the regular corn planter on the flat saves time, conserves moisture and helps keep down weeds. Harrowing as the green points shoot up and then using the tworow cultivator every week or oftener till the corn stands three or four feet high helps keep down the cost of cleaning and encourages the corn to grow. The hoe is still needed, but to a very limited extent only. The one-horse walking cultivator also still has a place and, if at all possible, should be kept moving up and down the rows long after the stalks rise above the horse's head.

The cutting of the corn, binding into sheaves and shocking,-all of them at one time heavy manual labor jobs-are now done by machinery for the most part. The corn harvester capable of cutting from five to eight acres a day not only cuts and binds, but greatly facilitates loading. The curing of corn in the shock, an expensive and



Corn Planting at Its Best

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is the double-row oorn planter here illustrated,
machine may be regulated to plant in
machine may be regulated to plant in
a Aux who have ever used this implet would no method of obset to any of the oldtime method of the planting.

—Photo by an editor of Farm and Dairy.

uncertain method of preserving the crop, has given place to the silo, where practically every last pound of digestible matter is perfectly con-

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