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### The Era of Farm Machinery

Continued from page 82b

His hours of service have been made shorter and his mental faculties stimulated. He has been made a more efficient worker, a broader man, and a better citizen. An extract from resolutions passed at a recent convention of the National Association of Agricul-tural Implement and Vehicle Manufacturers, states the case effectively. It is as follows:

"The greatest good comes from the conservation of human life Next comes the conservation of human effort. We, as implement and vehicle manufacturers, in the development of labor-saving machines and tools, have a right to claim to be in the foremost rank of conservators.'

The claim is most assuredly ist. There remains practically just. no phase of human effort on the farm which the inventor and manufacturer have not touched upon in the endeavor to relieve the burden of toil.

Now the most active field eems to be the emancipation of the horse. While the field machines have been most wonderfully developed during the last sixty years, the power has re-mained the same for centuries. Only in the last ten years, and with the opening up of vast tracts of level territory in the West, have mechanical prime movers come into extensive use as substitutes for the horse. Great changes in the design and construction of early traction engines have been made in order to adapt them to this work.

From a small beginning steam engines have become important factors in agriculture where conditions are favorable. However, in many sections of the west, fuel, good water, and competent labor are scarce, hence expensive. Steam engines are economical only for large enterprises, while small farms in that section have constantly grown more numer-ous. In order to meet these conditions the internal combustion tractor was put out about six years ago. Since that time it has been developed into a practical machine and is being introduced at a rapid rate. In one of the first of these the engine has two cylinders capable of producing forty-five brake horse power. Oil is used for cooling, and either gasoline, kerosene, or distillate for fuel. The labor of from two to four men and as many horses is dispensed with in plowing, as compared with a steam outfit. The task of providing water has been practically eliminated, as only a small amount is used in the cylinders. The handling of fuel is greatly simplified, and, being in smaller units than the most economical steam engines, the motor is adapted for use on farms

The small single cylinder gaso-line tractor does the work of from twelve to fifteen horses in the field and of from twenty to twenty-five in stationary work.

of a half section or more.

A four-cylinder farm truck will handle two or three plows and ESTABLISHED 1865

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