

A continuing trend

Newer tractors are speedier pullers

RACINE, Wis. - For several decades the entire farm tractor industry has been moving in a well-defined product pattern. What has evolved from the

drawing boards of the tractor designers during this time is a sleek and trim, high-powered thoroughbred vehicle that weighs less and is able to farm faster.

Figure No. 1, showing the industry averages for performance of tractor (Nebraska Test Data), demonstrates a dramatic decline in both the ballasted



Today's tractors are sleek and trim, boasting new highs in horsepower-to-weight ratios. Some farmers are using the extra horsepower to pull larger implements, but research at the J I Case Company suggests they ought to look at the production gains they can realize by putting that horsepower to work in a Rapid Farming System.

TRACTOR WEIGHT TO HORSEPOWER
TWO WHEEL DRIVE
Industry Average Of All Makes

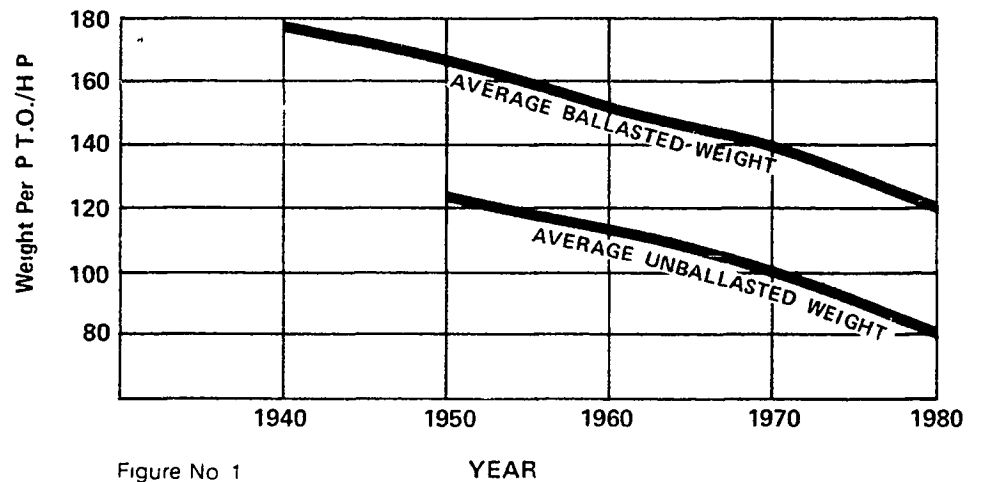


Figure No 1

and unballasted weight. Since the early 1960's average ratio of ballasted tractor weight to PTO/hp has decreased from 160 pounds per PTO/hp to an average of 115 pounds.

Simply stated, this concept of higher horsepower-to-tractor weight means today's farmer can increase

his production by using what some people have termed The Rapid Farming System. If a farmer purchases a tractor with 25 per cent more horsepower than the one he is using, he can cover 20 per cent more ground using the ground working tool he already owns.

For example a 100 hp tractor pulling a 20 foot disk harrow at 4 miles-per-hour effectively cover eight acres per hour. A 125 horsepower tractor pulling the same 20 foot disk harrow at 5 mph will effectively cover 10 acres per hour.

The alternative to going-faster using the same implement is to use the extra horsepower to pull a new, wider implement. But it is a mistake to assume that, in all cases, 25 per cent more horsepower will necessarily allow the farmer to increase

the implement size by the same amount. Here's why:

Drawbar horsepower is a function of speed as well as drawbar pounds pull. Therefore, you can transmit more drawbar horsepower at higher speeds. The Drawbar Performance Chart, Figure No. 2, shows that the maximum drawbar horsepower is always achieved at the higher rate of travel speed (usually in the 5 mph to 6 mph range) and never at the highest drawbar pounds pull.

Another plus factor for using the Rapid Farming System is that reliability of tractor can be remarkably increased as the operator farm faster.

In a test conducted by the J I Case Company Engineering Department it was determined: "there is

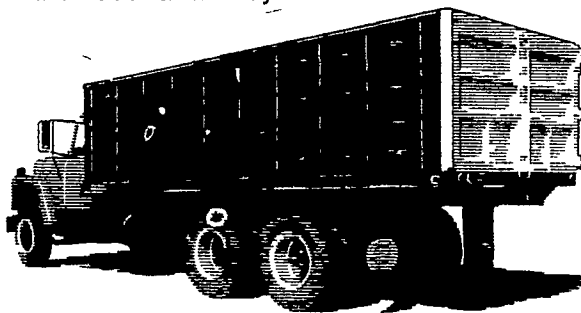
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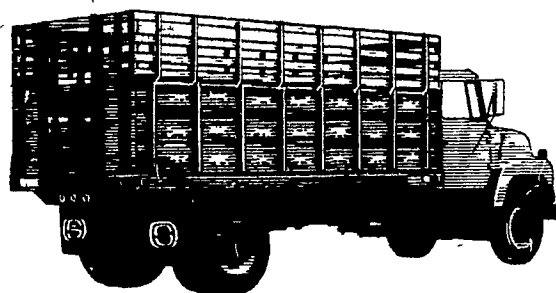
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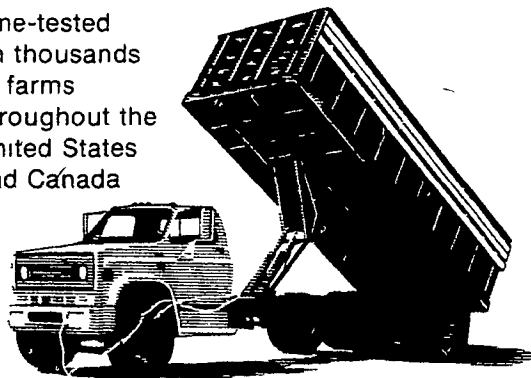
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