



In selecting suitable tillage implements for a particular farm situation, draft power requirement data is an important factor. Draft power requirement of each soil types differs, hence operational implement tests should be conducted on each soil type.

Farm managers and consultants can only make informed and sound decision on selection of tractors and implements based on their performance parameters. Proper selection and matching of implement onto the tractor is essential to reduce operational cost and this will also ensure efficient farm machinery use.

Implement specifications, such as effective working width, working depth and operational forward speed affect draft power requirements significantly. Draft is affected by soil conditions such as the soil moisture content, clay content and soil hardness.

Instrumentation such as a three point hitched dynamometer for measuring draft, a gps for measuring forward speed and a fuel oval meter for measuring fuel consumption are used to determine drawbar power on implements.

A telemetry communication system are used to communicate between the data logger on the tractor and a base station along the field where the computer is connected.



*Old method*