Soils, Nutrients and Fertiliser Factsheet

Fertiliser Spreader

Basic Setup and Calibration



1. Check the spreader before use

No damage on hopper or frame

Disc rotating freely, no play in bearing or gearbox

Regulator mechanism functions, no wear in linkages

Vanes not damaged or worn

Check the spreader before use

Agitator functions

Headland control functions, fins not bent

Lights are working

PTO cover & chains in place

2. Fit the machine correctly

Check operators manual, ensure tractor and spreader are compatible

Fit front weights as necessary. Check tractor controls

Ensure machine is level when viewed from rear. If not spread pattern will be wrong

Check the tyre pressure and adjust lower link arms. Machine height is measured over the crop

Set the height of the spreader according to instruction manual for example 75 cm+ over the crop

3. Machine settings

Set the machine for bout width, fertiliser and rate you intend to use. Use the Smart phone app, website or calibration/setting book to determine (depending on model)

Disc / vane choice and vane setting

Fertiliser drop point setting

Height of machine

Front/back angle of machine

Regulator setting, some apps will also give you the flow rate, kg/min of fertiliser

Flow rate kg/minute = Application rate (kg/ha) x forward speed (km/hr) x working width (m)



4. Calibrate the machine

Depending on machine type:

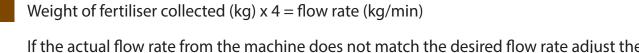
Example

Remove a disc



Open shutter for 30 seconds

Collect fertiliser in a bucket



If the actual flow rate from the machine does not match the desired flow rate adjust the regulator and recalibrate

5. Forward speed and PTO speed

Calibrate the tractors forward speed

mark out 100 m

select desired forward gear

set engine revs to give PTO speed of 540 rpm

Use a rolling start

Record time taken to cover 100 m

Forward speed (kph) = 360

Time taken in seconds

