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ACCU-Spread Report
Fertiliser Type
Date : April-May 2015

Report by : Matthew Roesner

1.0 Spreader Data

Model Number	910T
Year of Manufacture	2015
Spinner Configuration	Type D
	14° disc angle
Vane Configuration	Type D2 (Low Profile 304 SS)
	2 long vanes in radial position
	2 medium vanes at -5° position
Chute Configuration	Type D2 with large baffle
	In +10mm position
Spinner Speed	950 RPM

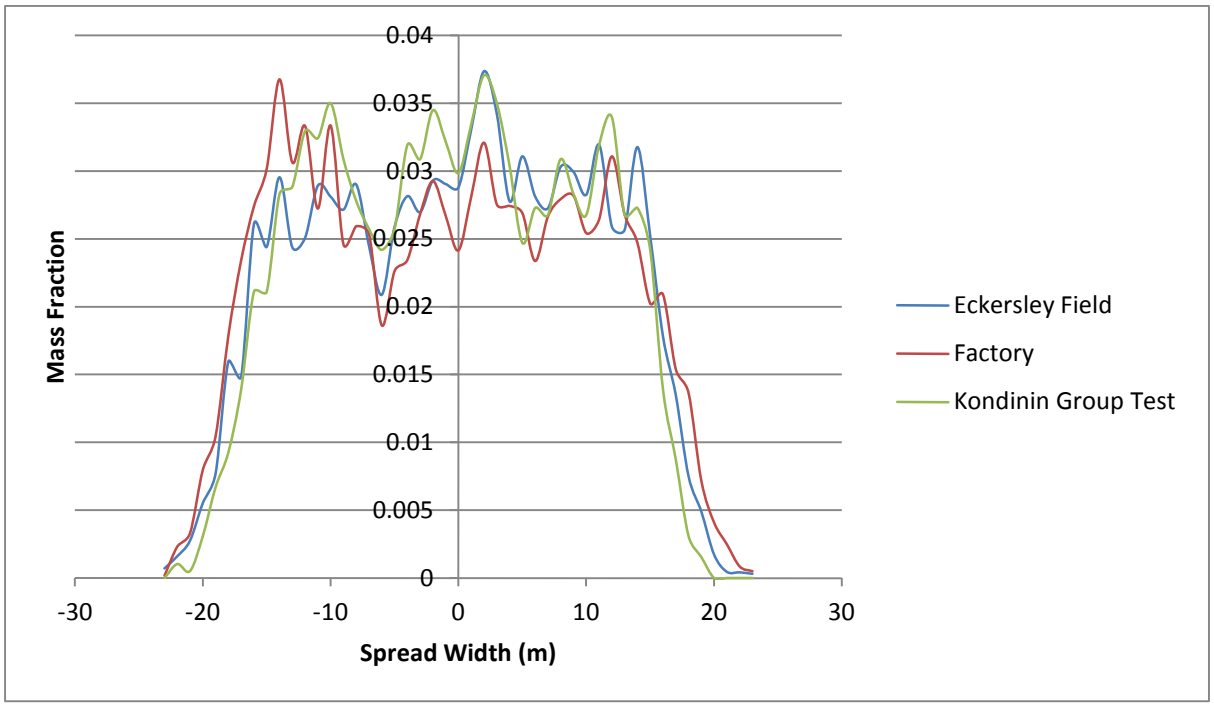
2.0 Fertiliser Properties

Type	Urea
Manufacturer	Unknown
Bulk Density	700 to 750 kg/m^3
Particle Size Distribution	

3.0 Environmental Conditions

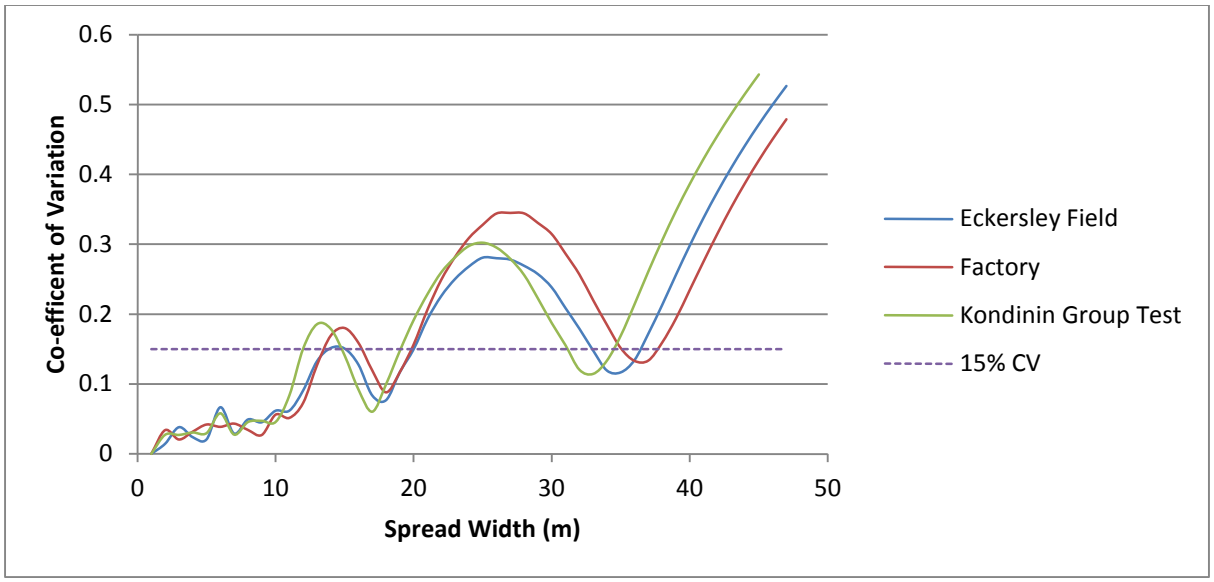
Temperature	25-35° C
Wind Speed and Direction	Variable Wind directions, > 5km/h
Paddock Notes	Tests carried out in pasture paddocks Factory test on blue metal surface

4.0 Results



Spread Distribution Plot

Mass Fraction, or the percentage of the total mass captured in each tray is used to compare the three test results.



Co-efficient of Variation Plot

5.0 Test Procedure

Fertiliser spreaders are tested according to the Australia Fertiliser Services Association (AFSA) ACCUspread testing regime.

The test uses 0.5m square trays aligned in transverse rows perpendicular to the direction of travel of the spreader which collect the fertiliser as the spreader passes. The fertiliser collected in each tray is weighed with 0. 1g accuracy, with the mass from each tray entered into a computer programme. The computer programme outputs a distribution curve and co-efficient of variation (CV) chart that determines the optimum width of pass in the field.

According to the ACCUspread code, when spreading Urea and other granulated fertilisers the acceptable CV threshold is 15%. For non-granulated products like Lime and Gypsum the acceptable CV is 25%.

The tests are carried out in the open at wind speeds below 10km/h. The spreader travels at normal operating speed (15-25km/h) over the trays. In order to ensure statistical accuracy, the spreader must undertake a number of passes over the trays to increase the size of the sample in each tray, a minimum application rate of 100kg/ha applied over two passes is recommended by the ACCUspread test regime. Any reduction in the application rate applied compromises the accuracy of the test results.

6.0 Conclusion

Test Description	Optimum Spread Width Range
Eckersley Field	33 to 36m
Factory	35 to 38m
Kondinin Group	31 to 35m