



**AG~NUTRI
PTY. LTD.**

Evaluation of LIG-POLYPHOS Foliar Spray in Wheat Warracknabeal Technical Site, 2000

Conducted by Simon Crane, IAMA Trial Agronomist, Horsham

SITE DETAILS

Soil Test (0-10 cm):

	1999 Results	After Barley	Comments
Stored soil moisture (mm)		104	High Summer RF + stubble retention
pH (water)	7.6	7.6	Slightly alkaline
Organic Carbon (%)	0.7	1.4	Increased 12 months after green manure
Colwell P (ppm)	14	29	Surplus from 99
Nitrate-N (ppm)	16	13	Slight deficit from 99
Potassium (meq/100g)	0.8	1.4	OK, low if < 0.4
Calcium (meq/100g)	10	18	OK, low if < 2
Magnesium (meq/100g)	4.9	4.4	OK, low if < 1.7
Ca/Mg ratio	2.1	4.0	Increased after gypsum in 99
Sodium (meq/100g)	1.5	0.8	Corrected since 99
Exchangeable Sodium % (ESP)	8.4	3.3	Also addressed by gypsum
Electrical Conductivity (se) dS/m	1.3	0.9	Problem for sensitive crops
Cation Exchange Capacity (meq/100g)	17.7	24.5	Increased
Sulphur (ppm)	39	9	<25 low for canola
Chloride (ppm)	47	15	OK, low if < 180
Boron (ppm)	1.7	na	OK
Zinc (ppm)	0.3	na	Low; below 0.8

Paddock History 1999:

Crop - Barley (cv Arapiles)

Soil Conditioners/Fertilizers - Gypsum @ 2.5 T/ha, Urea @ 100 kg/ha + MAP @ 80 kg/ha

Yield - 1.5 T/ha (feed)

Trial Details:

Crop - Wheat (cv?)

Sowing Date - 30/06/00

Fertilizer - 80 kg/ha Urea + 80 kg/ha MAP

Foliar Fertilizer - 2 L/ha LIG-POLYPHOS (10% P) @ 5 leaf

Herbicide - Pre-emergent: 1.5 L/ha Glyphosate

Post-emergent: 500g Achieve + 1% Supercharge, 5g Ally + 700 mL MCPA LVE + 150 mL Lontrel

Trial Results:

Treatment	Yield	Protein	Screenings	Yield increase as a % Control
Control	2.63 T/ha	10.8%	0.5%	100
LIG-POLYPHOS @ 2 L/ha	2.88 T/ha	9.9%	0.5%	110