Wheat Guideline

A suggested guideline for the sustainable production of winter row crops. Improve overall crop health and productivity while building root health and fertility.



Root Health Program

Product: Application and Rates Purpose **Laying Foundations** Humate Granules: 5 kg/ha in pre-plant granular • Improves efficiency of fertiliser and maximises nutrient fertiliser blend. utilisation. Fulvic acid powder: 2-5 kg/ha as soil application, Natural chelator, plant growth promotor and microbial or as 1 - 2% part of liquid fertilizer blend. stimulant. • Stimulates healthy root development. Eco-T®: Seed treatment @ 1 g/kg or in-furrow 100 g/ha or via irrigation 250 g/ha. • Suppression of fungal soil borne diseases. Eco-T® Ezi-Flo: Seed treatment in the seed bin · Stimulates healthy root development. @ 1 g/kg seed, minimum 25 g/ha. • Suppression of fungal soil borne diseases. RhizoVital® 42: Seed treatment @ 0.5 ml per kg Beneficial bacteria to build soil health and aid in prevention. seed, or in furrow @ 100 - 350 ml/ha, or via of soil borne diseases. irrigation @ 500 ml. • Mobilisation and improved uptake of phosphate and other nutrients. V12 Initiate: 3 kg/ha in furrow at planting or 5 kg/ha • B, Si, Ca and biostimulants initiate the nutrition cycle and via irrigation. support germination and early growth. AgriSil® K50: Soil drench through irrigation • Silica supplement to support immunity and stress @ 1 - 4 L/ha every 7 - 10 days from emergence tolerance (biotic & abiotic). or transplant. Do not over irrigate. • Improved cell strength results in improved crop quality and reduced lodging.

Plant Vitality Program: Plant Maintenance

Product: Application and Rates Purpose

Stimulate Vegetative Growth

 V^{12} Shoot: Foliar application @ 0.5 - 1 L/ha 2 weeks after emergence or transplant. Repeat 28 days after first application and as needed thereafter.

Stimulate vegetative g

Nutrient Management

*V*¹² *Multi*[®]: Foliar application @ 3 – 5 L/ha. Repeat when necessary for stress or to improve overall plant health.

 Supplement nutrition of and critical growth per suggested application

V12 Micro®: Foliar application @ 2 L/ha. Repeat when necessary to correct micronutrient deficiencies.

 Micronutrient supplen management.

Plant Stress and Strength

AgriSil® K50: Foliar application or soil drench through irrigation @ 1 - 4 L/ha. Low rates can be applied every 7 to 10 days from emergence or transplant, under low stress conditions and when plants are small. Apply high dose rates when applications are done further apart, under high stress conditions and on large plants.

 Silica supplement to s stress tolerance.

Bio Crop Protection: Disease and Pest Management

Product: Application and Rates

Purpose

Disease Management

Eco-T®: Seed treatment @ 1 g/kg, soil drench via irrigation @ 500 g/ha. Repeat monthly through irrigation @ 250 g/ha.

Eco-T® Ezi-Flo: Seed treatment in the seed bin @ 1 g/kg seed, minimum 25 g/ha.

Purpose

• Suppression of fungal soil borne diseases, i.e. Fusarium, Pythium, Rhizoctonia, Phytophthora, etc.

Product: Application and Rates

Purpose

Pest Management

Bolldex®: Foliar application @ 200 ml/ha when pest is first noticed - eggs or 1st instar larvae. Repeat applications every 7 to 10 days until bollworm is under control.

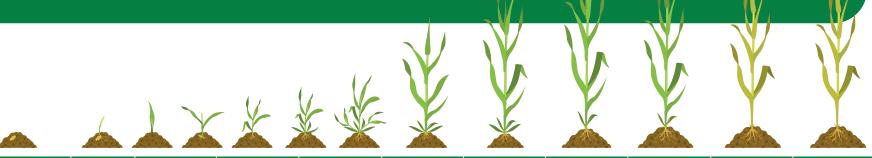
• Suppression of African bollworm.

Wheat Guideline



Application Timing

Application timing is a guide only. Can be amended according to season, crop and location.



P	roduct	Pre-plant		Emergence to first leaf W 1 - 2		Start of tillering W 4	Tillering continues, first node visible W 5	Tillering continues W 6	Tillering continues, Flag leaf visible W 7	Head development W 8 - 10	Flowering W 11 - 13	Yield formation W 14 - 18	Ripening W 19 - 20
			Establishment			Vegetative growth					Flowering	Yeild form	Ripening
£ Huma	ate Granules	5 kg/ha											
Fulvio	c Acid	Apply as needed											
o l	Vital®42	0.5 ml/kg seed OR	In furrow @ 100-350 ml/ha/ Irrigation @ 500 ml/ha										
V ¹² Ini	itiate		In-furrow @ 3 kg/ha/ Irrigation @ 5 kg/ha										
AgriSi	il® K50						2 L/ha		2 L/ha				
V ¹² Sh	hoot					1 L/ha							
V ¹² Mt	ulti®					2 L/ha			2 L/ha				
V ¹² Mi	licro®		Apply as needed										
Eco-T	®Ezi-Flo		1 g/kg seed										
Eco-T	T®		250 g/ha in furrow (if no Ezi-Flo seed application)	Apply via irrigation @ 250 – 500 g/ha									
Bollde	ex®		200 ml/ha as necessary for management of African Bollworm. Apply when pest is first noticed. Target eggs or first instar larvae.										

AgriSil® K50 contains potassium silicate. Reg. No. B3756, Act No. 36 of 1947, skin irritant. PQ Silicas South Africa (Pty) Ltd, PO Box 14016, Wadeville, 1422, Reg. No. D00/027189/07. Fulvic Acid Powder contains fulvic acid. Reg. No. B4796; Humate Crystals contains humic acid and potassium. Reg. No. B4797; RhizoVital® 42 contains Bacillus amyloliquefaciens FZB42. Reg. No. B4201; V¹² Initiate contains potassium, sulphur, calcium, magnesium, magnesium, iron, copper, zinc, manganese, zinc, iron, silica, copper, molybdenum, and boron. Reg. No. B4513; V¹² Multi® contains nitrogen, phosphorous, potassium, sulphur, magnesium, iron, copper, zinc, manganese, boron and molybdenum. Reg. No. K4512; V¹² Micro® contains nitrogen, potassium, magnesium, sulphur, iron, manganese, zinc, copper, boron and molybdenum. Reg. No. B4514; V¹² Shoot contains nitrogen, magnesium, sulphur, iron, manganese and molybdenum. Reg. No. B4510, Bolldes® contains Helicoverpa amigera Nucleopolyhedrovirus (HearNPV), Reg. No. L8895, Act No. 36 of 1947. Andermatt Madumbi (Pty) Ltd, Postnet Suite 20, Private Bag X6011, Hilton, 3245. Reg. No. 2009/020798/07. Eco-T® contains Trichoderma asperellum. Reg. No. L9276, Act No. 36 of 1947. Andermatt PHP (Pty) Ltd, PO Box 207, Nottingham Road, 3280. Reg. No. 2003/007987/07.

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