

POTATOES PRODUCTION GUIDELINES FOR 1 HECTARE

Seed Requirements: 75-80 (30 kg pockets) per hectare based on tuber size and plant population.

Planting Times: Summer crop: November, Winter crop: February-April, Spring crop: Late July to early August

Spacing: 0.9m between rows and 0.3m within rows to achieve 37,000 plants per hectare.

Lime Application: Do not apply lime to potato crops to prevent Potato Scab Disease. Apply lime the previous year instead.

Yield Targets: 30-40 tons per hectare, potentially up to 60 tons with heavy fertilization and good agronomic practices.

FERTILIZER REQUIREMENTS		PRODUCT	RATE/HA	
Basal dressing:	Compound C OR	5:15:12	1500kgs	Apply all at or before planting
Basal dressing:	Blend/High C			
Top dressing:	Split apply Ammonium nitrate	6:28:23	1000kgs	Apply all at or before planting
Top dressing:	Split apply Calcium nitrate	AN 34.5% N	200kgs	Split apply twice at 2-3 & at 4 -5 weeks after emergence
dressing:	Split apply Potassium Nitrate	Calcium Nitrate	100kgs	Split apply 75kgs before second ridging and 25kgs 3 weeks before lifting
conditioning + Calcium supplement:		Potassium Nitrate	300kgs	Split apply at 4, 8 & at 12 weeks after emergence
		Gypsum	300kgs	Apply all at or before planting
HERBICIDES, NEMATICIDES, FUNGICIDES, INSECTICIDES				
PROBLEM	PRODUCT	APPLICATION RATE	APPLICATION / COMMENTS	PRODUCT FOR 1 HA
Grasses and Some Broad Leaved Weeds	Metribuzine/Sencor Metolachlor Alachlor/Laso	1.1 - 1.5l/ha 1.1 - 1.9l per ha 3.5 - 4l per ha	Pre-emergent, DO NOT apply on soils with less than 12% clay Apply as Pre-emergent to both the weeds and the crop Apply as Pre-emergent to both the weeds and the crop	1.1 - 1.5l 1.1 - 1.9l 3.5 - 4l
Grasses only	Gallant Super Agil Pilot Super	0.6 - 2.4l/ha 0.5 - 2l per ha 0.375l per ha	Post emergent for annual & perennial grasses Post emergent for annual & perennial grasses Apply over top of crop to emerged grasses when susceptible	0.6 - 2.4l 0.5 - 2l 0.375l
Broad Leaved Weeds only	Basagran MCPA	3 - 5l per ha 3.75 - 5l per ha	Apply as a post emergent for broad leaves. Suppresses nut sedges Apply as Pre-emergent to both the weeds and the crop	3 - 5l 3.75 - 5l
Nematodes /Eelworms Control	Oxamyl/Nemat Velum Prime Fernamiphos/Nemacure Carbofuran/Curatter	20l per ha 900mls/100 - 150 litres of water 12.5l/100 litres of water 20kgs per ha	Split apply at planting and at 6 - 8 weeks after planting Apply at planting. Spray the whole furrow area Apply at planting. Spray the whole furrow area Apply 200 grams per 100m row at planting	20l 1.8l 25l 20kgs
W/grubs, F/Wireworm Termites, Ants, BMB	Chlopyrifos 48EC Chlopyrifos 48EC	500mls/100 litres of water 500mls/100 litres of water	Dilute in 200 l of water. Spray the whole furrow area at planting Dilute in 200 l of water. Spray the whole furrow area at planting	1l 1l
			PTO	

PROBLEM	PRODUCT	APPLICATION RATE	APPLICATION / COMMENTS	PRODUCT FOR 1 HA
	Lambda cyhalothrin Chlopyrifos 48EC	100mls/100 litres of water 500mls/100 litres of water	Dilute in 200 l of water. Spray the whole furrow area at planting Dilute in 200 l of water. Spray the whole furrow area at planting	0.21 11
Aphids, Leaf eaters	Thunder	220 ml/100 l water	Dilute in 200 litres of water, apply as a F.C.S Repeat as necessary	0.331
Aphids, Leaf hoppers	Dimethoate 40EC	400mls/100litres of water	necessary F.C.S Repeat as necessary	0.81
Aphids, Leaf hoppers	Malathion 25WP	200g/100 litres of water	F.C.S Repeat as necessary	0.4kgs
Grasshoppers, Crickets	Carbaryl 85WP	200g/100 litres of water	F.C.S when pest is first seen, Repeat as necessary	0.4kgs
Leaf eating caterpillars	Carbaryl 85WP	200g/100 litres of water	F.C.S when pest is first seen, repeat as necessary	0.4kgs 3kgs
Leaf eating ladybirds	Malathion 25WP	1.5kgs/100 litres of water	Apply as a F.C.S Repeat if necessary to do so	
Semi loopers	DDVP/Dichlorvos Carbaryl 85WP	100-500mls/100 litres of water 200g/100 litres of water	Dilute in 200 litres of water, repeat as necessary F.C.S Repeat as necessary	0.1 - 0.51 0.4kgs
Potato tuber moth	Avaunt/Steward Cartap hydrochloride Chlopyrifos 48EC Bel Carbaryl 85WP Lambda cyhalothrin	125mls/100 litres of water 400g/100 litres of water 700mls per hectare 38mls/ha 200g/100 litres of water 100mls/100 litres of water	F.C.S on first signs of mines on leaves, repeat as necessary F.C.S apply when first moths are noticed, repeat as necessary Ground application. Repeat as necessary at 14-day intervals Apply in 200 litres of water and repeat as necessary Repeat at 14-day intervals from when plants are 200mm tall F.C.S apply when first moths are noticed, repeat as necessary	0.251 0.8kgs 0.71 38mls 0.4kgs 0.21
Leaf miners	Cartap hydrochloride Diazinon 30EC	400g/100 litres of water 200mls/100 litres of water	F.C.S when signs of infestation are noticed, repeat as necessary F.C.S after flowering. Repeat as necessary	0.8kgs 0.41
Early & Late Blight	Azoxystrobin	250mls/100 litres of water	FCS before disease symptoms appear, repeat as necessary	0.51
Leaf spots	Tebuconazole	75mls/100litres of water	Apply as an FCS as a preventative measure, repeat as necessary	0.151 1kgs
Preventative	Copper Oxychloride	500g/100 litres of water	F.C.S Repeat as necessary when plants are 150mm tall	21
Measures:	Bravo/Chlorothalonil	1 litre/100 litres of water	FCS at 7-10-day interval at flowering when disease threatens	1.5-2kgs
Curative measure	Dithane M45/Mancozeb Metalaxyl + Mancozeb	1kg/100 litres of water 1.25kgs/100 litres of water	Apply as an FCS at weekly intervals, repeat as necessary Apply as an FCS, apply possibly 2 sprays 10 days apart	2.5kgs
Red Spider Mites	Mitac/Amitraz/Red Spider Kill Dimethoate 40EC	200mls/100 litres of water 400-500mls/100 litres of water	F.C.S in 300-600l depending on height. Repeat as necessary Apply as a F.C.S Repeat as necessary	1.51 0.8 - 11
Enhancing Sprouting	Gibberellic acid	16mls/100 litres of water	Dip enough tubers for 1hectare just for a few minutes e.g. 5 minutes	0.0321

Approximately 12.5 x 16 litre knapsacks will cover 1 hectare and apply 200 litres of water

ALWAYS READ PRODUCT LABELS BEFORE USE

Website: www.reliantag.co.zw, Email: info@reliantag.co.zw

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