



PRODUCTION GUIDELINES FOR 1 HECTARE OF POTATOES JULY 2017

Potato seed requirements depend on size of tubers and intended plant population generally 75 - 80 (30 kg pockets) per ha is a good guideline.

Planting times: Summer crop - November, Winter crop (First irrigated crop) - Feb - April, Second irrigated crop (Spring) - Late July to Early August

Spacing should give an estimated plant population of 37 000 plants per ha. Achieved by a spacing 0.9m between rows and 0.3m within row

Recommended NOT to apply lime to a potato crop, it may cause *Potatoe Scab Disease*. Lime should be applied the previous year

Yield target is between **30-40 tons/ha**. H/ever with **heavier fertilization & Good Agronomic Practices (GAPS)** yield can be much higher upto **60tons/ha**

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

Problem	Product	Application rate	Application / comments	Product for 1 ha
	Lambda cyhalothrin	100mls/100 litres of water	Dilute in 200 lts of water. Spray the whole furrow area at planting	0.2lt
	Chlopyrifos 48EC	500mls/100 litres of water	Dilute in 200 lts of water. Spray the whole furrow area at planting	1lt
Aphids, Leaf eaters	Thunder	220 ml/100 lt water	Dilute in 200 litres of water, apply as a F.C.S Repeat as necessary	0.33lts
Aphids, Leaf hoppers	Dimethoate 40EC	400mls/100litres of water	F.C.S Repeat as necessary	0.8lt
Aphids, Leaf hoppers	Malathion 25WP	200grms/100 litres of water	F.C.S Repeat as necessary	0.4kgs
Grasshoppers, Crickets	Carbaryl 85WP	200grms/100 litres of water	F.C.S when pest is first seen, Repeat as necessary	0.4kgs
Leaf eating caterpillars	Carbaryl 85WP	200grms/100 litres of water	F.C.S when pest is first seen, Repeat as necessary	0.4kgs
Leaf eating ladybirds	Malathion 25WP	1.5kgs/100 litres of water	Apply as a F.C.S Repeat if necessary to do so	3kgs
Semi loopers	DDVP/Dichlorvos	100-500mls/100 litres of water	Dilute in 200 litres of water, repeat as necessary	0.1 - 0.5lt
	Carbaryl 85WP	200grms/100 litres of water	F.C.S Repeat as necessary	0.4kgs
Potatoe tuber moth	Avaunt/Steward	125mls/100 litres of water	F.C.S on first signs of mines on leaves, repeat as necessary	0.25lts
	Cartap hydrochloride	400grms/100 litres of water	F.C.S apply when first moths are noticed, repeat as necessary	0.8kgs
	Chlopyrifos 48EC	700mls per hectare	Ground application. Repeat as necessary at 14 day intervals	0.7lt
	Belt	38mls/ha	Apply in 200 litres of water and repeat as necessary	38mls
	Carbaryl 85WP	200grms/100 litres of water	Repeat at 14 day intervals from when plants are 200mm tall	0.4kgs
	Lambda cyhalothrin	100mls/100 litres of water	F.C.S apply when first moths are noticed, repeat as necessary	0.2lt
Leaf miners	Cartap hydrochloride	400grms/100 litres of water	F.C.S when signs of infestation are noticed, repeat as necessary	0.8kgs
	Diazinon 30EC	200mls/100 litres of water	F.C.S after flowering. Repeat as necessary	0.4lts
Early & Late Blight	Azoxystrobin	250mls/100 litres of water	FCS before disease symptoms appear, repeat as necessary	0.5lt
Leaf spots	Tebuconazole	75mls/100litres of water	Apply as a FCS as a preventative measure, repeat as necessary	0.15lt
Preventative	Copper Oxychloride	500grms/100 litres of water	F.C.S Repeat as necessary when plants are 150mm tall	1kgs
Measures:	Bravo/Chlorothalonil	1 litre/100 litres of water	FCS at 7-10 day interval at flowering when disease threatens	2lts
Curative measure	Dithane M45/Mancozeb	1kg/100 litres of water	Apply as a FCS at weekly intervals, repeat as necessary	1.5-2kgs
	Metalaxyl + Mancozeb	1.25kgs/100 litres of water	Apply as a FCS, apply possibly 2 sprays 10 days apart	2.5kgs
Red Spider Mites	Mitac/Amitraz/Red Spider Kill	200mls/100 litres of water	F.C.S in 300-600lts depending on height. Repeat as necessary	1.5lt
	Dimethoate 40EC	400-500mls/100 litres of water	Apply as a F.C.S Repeat as necessary	0.8 - 1lt
Enhancing Sprouting	Gibberellic acid	16mls/100 litres of water	Dip enough tubers for 1hectare just for a few minutes eg 5 minute	0.032ltrs

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

ALWAYS READ LABELS BEFORE USING THE PRODUCTS

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