

CABBAGES & OTHER BRASSICAS PRODUCTION GUIDELINES FOR 1 HECTARE

Adaptability: Cabbages can be grown year-round in most regions.

Planting Methods: Direct seeding (up to 2 kg of seed) or transplanting seedlings.

Plant Spacing: Large-headed cultivars: 60-70cm between rows, 45cm within rows.

Small to medium-headed cultivars: 60cm between rows, 30cm within rows.

Transplanting: Transplant seedlings as soon as they reach the desired size, Use well-hardened, young, stocky plants for planting.

Plant Populations: 40,000-45,000 plants/ha and 55,000-65,000 plants/ha for standard cultivars.

80,000-100,000 plants/ha for baby cabbage.

Soil Requirements: Well-drained, moisture-retentive loamy soils rich in organic matter, with a pH of 5.5-6.5.

Temperature: Optimum growth at 18-20°C. Frost-resistant and can survive very low temperatures without damage.

FERTILIZER REQUIREMENTS		PRODUCT	RATE/HA	NITROGEN	PHOSPHATE	POTASH	SULPHUR	APPLICATION REMARKS
Basal dressing OR Basal dressing	Compound C Blend/High C	5:15:12 6:28:23	600kgs 500	30 30	90 140	72 115		All at transplanting
Top dressing	Potassium nitrate Ammonium Nitrate	13:0:46 AN 34.5% N	200kgs 100kgs	26 35		92		Split apply at 4 and at 6 weeks after transplanting Apply at 3 weeks after transplanting
Totals				121	230	279		

HERBICIDES, INSECTICIDES & FUNGICIDES

Problem	Product	Mixing rate	Application Details	Pre - Harvest Interval
Grasses & Some B/L Weeds	Alachlor 48EC	3 - 4 litres per hectare	Apply as soon as possible after first transplant irrigation and before weeds emerge	
	Metolachlor 960EC	1.3 - 1.9 litres per hectare	Apply as soon as possible after first transplant irrigation and before weeds emerge	
	Trifluralin 48EC	1.1 - 1.6 litres per hectare	Transplantable seedlings only, Pre-plant incorporated herbicide. Consult Agronomist	
Grasses Only	Gallant Super	0.6 - 2.4 litres per hectare	Post emergent against grasses only, use higher rates for perennial grasses	
	Agil	0.5 - 2 litres per hectare	Post emergent against grasses only, use higher rates for perennial grasses	
All Green Matter	Diquat	1 - 2 litres per hectare	Apply as a post directed spray, it is a non-selective herbicide	
Cutworms	Chlopyrifos 48EC	200mls/100 litres of water	Band spray over row or apply as a cup application at the base of plant	7 days
	Fenvelerate 20EC	80mls/100 litres of water	Band spray over row or apply as a cup application at the base of plant	7 days
	Lambda cyhalothrin	100mls/100 litres of water	Band spray over row or apply as a cup application at the base of plant	7 days
Aphids	DDVP	100mls/100 litres of water	F.C.S Repeat as necessary	2days
	Dimethoate 40EC	75mls/100 litres of water	F.C.S Repeat as necessary at 14-day intervals	14 days
	Malathion 25WP/50EC	200grms/120mls/100 litres of water	F.C.S Repeat as necessary	7 days
	Thiamethoxam	200grams per hectare	Foliar spray, F.C.S	7 days
Bagrada Bug	DDVP	200mls/100 litres of water	F.C.S Repeat as necessary	2 days
Cabbage Moth	Carbaryl 85WP	200grams/100 litres of water	F.C.S Repeat as necessary	7 days
	Malathion 50EC	250mls per hectare	F.C.S Repeat as necessary	7 days
Caterpillars	Emamectin benzoate + Lufenuron	250 grams per hectare	F.C.S Repeat as necessary	7 days
Diamond Back Moth Larvae	Biobit Hpwp	50 - 75grams/100 litres of water	F.C.S Repeat at 7-day intervals	
	Acephate 75SP	180 - 225grams/100 litres of water	F.C.S Higher rate for higher infestation levels, repeat as necessary	
	Cartap hydrochloride/Suntap	400grams/100 litres of water	Do not exceed 2kgs/ha/spray Apply as a F.C.S	7 days
	Decis forte	100mls/100 litres of water	F.C.S Repeat as necessary 14 days later	3 days
	DDVP -Will also control semi loop	100mls/100 litres of water	F.C.S Repeat as necessary, Higher rates for higher infestation levels	2 days
	Diazinon 30EC	108mls/100 litres of water	F.C.S Repeat as necessary at 7 - 10-day intervals	7 days
	Emamectin benzoate + Lufenuron	250 grams per hectare	F.C.S Repeat as necessary	7 days
	Steward/Indoxacarb	250mls per hectare	F.C.S Repeat as necessary, start application when eggs or the very first larva seen	3 days
	Fipronil 20SC	25mls/100 litres of water	F.C.S Repeat as necessary F.C.S	
	Lufenuron 5EC	600mls per hectare	Repeat as necessary	14 days
Malathion 25WP/50EC	600grms/250mls/100 litres of water	F.C.S Repeat as necessary	7 days	
Downey Mildew	Copper Oxychloride 85WP	400grams/100 litres of water	Repeat as necessary at 10 -14-day intervals	3 days
	Dithane M45	200grams/100 litres of water	Repeat as necessary at 7 -14-day intervals	14 days
	Metalaxyl + Mancozeb	250grams/100 litres of water	Spray maximum of 3 sprays/crop at 7 - 10-day intervals	

NB: CARBARYL 85WP WILL ALSO CONTROL SEMI LOOPERS, GRASSHOPPERS, LEAF EATING CATERPILLARS, CRICKETS WITH THE SAME RATE AS ON CABBAGE MOTH
CHLOPYRIFOS, APPLIED AS MENTIONED ABOVE, WILL ALSO CONTROL FALSE WIREWORMS, WHITE GRUBS USING SAME RATE AS THAT ON CUTWORMS

Thrips	Cartap hydrochloride/Suntap	400grams/100 litres of water	F.C.S at 7-day intervals. Do not exceed 2kgs/hectare	7 days
Thrips	DDVP 100EC	100mls/100 litres of water	F.C.S Apply as a high-volume spray. Repeat if pest persists	2 days
	Diazinon 30EC	120mls/100 litres of water	F.C.S Repeat as necessary	10 days
	Malathion 50EC	250mls/100 litres of water	F.C.S Repeat as necessary	10 days
White Fly	DDVP 100EC	100mls/100 litres of water	F.C.S Repeat as necessary	2 days
Damping off	Thiram 80WP	100grams/50kgs of seed	This is a seed dressing treatment	
Red Spider Mites	Amitraz/Mitac 20EC	200mls/100 litres of water	F.C.S in 300 - 600 litres of water/Ha spray mix. Repeat if mites persist	
	Diazinon 30EC	190mls/100 litres of water	F.C.S Repeat at 10-day intervals	14 days
	Dicofol 18.5EC	220mls/100 litres of water	F.C.S Repeat as necessary	
	Dimethoate 40EC	80mls/100 litres of water	F.C.S Repeat as necessary	14 days
	Malathion 25WP/50EC	200grams/120mls/100 litres of water	F.C.S Repeat as necessary	7 days

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

Prepared by Macdonald Makombe Call/0779405797