

# Crop Protection Solutions For Onion Growers

	Before planting	Planting	Hook stage	Whip stage	1-2 leaves	3-5 leaves (Transplanting)	Bulb initiation	30% of the bulb diameter	50% of the bulb diameter	10% of the plants leaves bent over	Leaves dead, bulb top dry; Growth complete	Rate / Ha	Rate/16L knapsack
All already germinated grass and broadleaf weeds	<b>Tornado 540</b> Glyphosate acid, 540 g/l (potassium salt)											1.4L to 2.8L	112 ml to 224 ml
Grass weeds and some broadleaf weeds. Suppression of yellow nutsedge						<b>Simba</b> S-metolachlor, 960 g/l						1L to 1.3L	80 ml to 104 ml
Grass weeds (eg. couch grass/ tsangadzi/ shanje)					<b>Quickstep</b> Clethodim, 130 g/l + Haloxyfop-P-methyl, 80 g/l							400 ml to 800 ml	32 ml to 64 ml
Downy mildew					<b>Metaxyl</b> Mancozeb, 640 g/kg + Metalaxyl, 80 g/kg							2.5 kg	80 g
					<b>Ordan</b> Copper oxychloride, 689 g/kg + Cymoxanil, 42 g/kg							2.0 kg	64 g
Downy mildew, Anthracnose, Botrytis leaf blight					<b>Kumir</b> Tribasic copper sulfate, 345 g/l							3L	96 ml
Alternaria (purple blotch)					<b>Rayok</b> Difenoconazole, 250 g/l							600 ml	32 ml
Thrips, leaf miner					<b>Tanrek 500 (Seedling drench)</b> Imidacloprid, 500 g/l							140 ml	7,5 ml
Thrips, onion fly, leaf miner					<b>Borey</b> Imidacloprid, 150 g/l + Lambda-cyhalothrin, 50 g/l							200 ml to 250 ml	11 ml to 14 ml

**APPLICATION VOLUME:** Herbicides - 200 l/ha; Insecticides - 300 l/ha; Fungicides (Rayok - 300 l/ha, Metaxyl/Ordan/Kumir - 500 l/ha)



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