









Ginseng Crop Protection Guide











Bayer provides solutions to help you grow high-quality ginseng, increase yield potential and continuously improve the marketability of your crop.



Product	Features and Benefits	Key P	WAMLEGS Mixing Order	Maximum Applications per Crop Season	Use Rate & Application T	Chemical Class Group No.	Rainfast (hours)	REI (hours)	PHI (days)
HERBICIDES	 <ul style="list-style-type: none">Unsurpassed and consistent weed control under ideal and tough conditions30 minute rainfast guaranteeEnhanced efficiency with a 540 g/L formulation	Grass & broadleaf weeds. For a complete list of weeds refer to the Roundup WeatherMAX® Transorb II herbicide product label.	G	Maximum 2 applications per year	A maximum of 1.67 L/Ha (0.67 L/ac) may be used per application in 50 to 100 L of water per ha (5 to 11 gal./ac. of water). Apply this product in the spring before crop has emerged from the soil. Apply when weeds are at the growth stages described in the product label. DO NOT USE FALL APPLICATION IN ESTABLISHED GARDENS	Group 9 (glyphosate)	0.5	12	N/A
BIOLOGICALS	 <ul style="list-style-type: none">Provides broad spectrum suppression against soil borne diseasesExcellent mixing characteristicsLow use rate and concentrated packaging for less bulk and wasteOMRI-certified	Rhizoctonia root rot*, pythium root rot*, fusarium root rot*	L	N/A	0.5 to 2.8 L/ha (0.2 to 1.1 L/ac.)	FRAC Group BM02 (<i>Bacillus subtilis</i> strain QST 713)	N/A	4	0
FUNGICIDES	 <ul style="list-style-type: none">A fully systemic fungicide that inhibits pathogen growth at several life stages for better overall disease control	Phytophthora root rot & phytophthora leaf blight	W	Maximum 5 applications per year	5.5 kg/ha (2.23 kg/ac.)	P07 (Fosetyl AL)	1	12	31
	 <ul style="list-style-type: none">Low use rates in an easy-to-use liquid SC formulationFungicide that works by interfering with respiration in plant pathogenic fungiA potent inhibitor of spore germination and mycelial growth	Alternaria leaf & stem blight	L	Maximum 4 applications. Maximum 860 mL/ha (348 mL/ac.) per year.	145 to 215 mL/ha (58 to 87 mL/ac.) Begin applications preventatively and continue as needed on a 14 day interval.	Group 11 (trifloxystrobin)	When dry	12	7
	 <ul style="list-style-type: none">Protects against key diseases resulting in increased yield potentialBroad spectrum fungicide with preventative, systemic and curative propertiesBest used in a preventative program	Alternaria leaf & stem blight	L	Maximum 1,680 mL/ha (680 mL/ac.) per year. Maximum 2 applications**	Alternaria blight: 300 to 500 mL/ha (121 to 202 mL/ac.)	Group 7 & 11 (fluopyram, trifloxystrobin)	2	12	7
	 <ul style="list-style-type: none">Protects against key diseases in ginseng resulting in increased yield potentialBroad spectrum fungicide with preventative and systemic propertiesBest used in a preventative program	Alternaria leaf & stem blight, botrytis blight	L	Maximum of 3 applications for alternaria. Maximum of 2 to 3 applications for botrytis (refer to product label for resistance management guidelines).	2 L/ha (810 mL/ac.)	Group 9 (pyrimethanil)	2	12	30
INSECTICIDE/NEMATOCIDE	 <ul style="list-style-type: none">Fast acting. Provides quick knockdown and residual control of target pests while helping safeguard beneficial insectsProvides quick feeding cessationTranslaminar and local systemic movement allows targeting of insects feeding on the underside of leaves	Aphids	L	Maximum allowed per crop season: 2,000 mL/ha (810 mL/ac.)	500 to 750 mL/ha (202 to 303 mL/ac.) Minimum interval between applications: 10 days	Group 4D (flupyradifurone)	1	12	7
	 <ul style="list-style-type: none">A unique mode of action and group for protection against nematodes, Velum Prime nematocide helps increase your crop's yield potential	Soil-dwelling, root-feeding nematodes (juveniles, adults)*	L	Maximum 2 applications per season. Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar).	500 mL/ha (202 mL/ac.) Apply using high water volumes (2,000 to 4,000 L/ha or 200 to 400 gal./ac.) to ensure the product moves into the straw. Application should be followed by a rainfall or overhead irrigation to move product into the root zone.	Group 7 (fluopyram)	N/A	12	7

* Suppression

** Do not make more than 2 applications of Luna Sensation or any Group 7 or Group 11 fungicide before rotating with a fungicide from a different Group.



RECOMMENDED APPLICATION TIMING										
Product	Registration No.	Pests	Application Methods		Ginseng Crop Stages					
			Foliar	Drench	Planting	Fall (post planting)	Pre-emergence	Germination/ Emergence	Spring Sprays	Summer Sprays
HERBICIDES	 Roundup WeatherMAX ^{HERBICIDE} <small>TRANSORB II</small>	27487	Grass & broadleaf weeds				Established gardens			
BIOLOGICALS	 MINUET [®]	33651	Rhizoctonia root rot*, pythium root rot*, fusarium root rot*							
FUNGICIDES	 Aliette [®]	24458	Phytophthora root rot & phytophthora leaf blight							
	 FLINT [®] Extra	34962	Alternaria leaf & stem blight							
	 Luna SENSATION	32107	Alternaria leaf & stem blight							
	 SCALA [®]	28011	Alternaria leaf & stem blight, botrytis blight							
INSECTICIDE/NEMATOCIDE	 SIVANTO [®] prime	31452	Aphids							
	 VELUM [®] PRIME	32108	Soil-dwelling, root-feeding nematodes (juveniles, adults)*							

*Suppression only

 HERBICIDES  BIOLOGICALS  FUNGICIDES  INSECTICIDE/NEMATOCIDE



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