

# Carrot Crop Protection Guide



Bayer provides solutions to help you grow high-quality carrots, 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	<b>PARDNER</b>	<ul style="list-style-type: none"> <li>Controls 28 broadleaf weeds</li> <li>An excellent tool to help manage resistance</li> </ul>	For a complete list of weeds, refer to the Pardner® herbicide product label.	E	Maximum 1 application	1.0 to 1.2 L/ha (405 to 486 mL/ac.) Apply only to carrots grown on muck soils containing greater than 10% organic matter. Contact herbicide, good coverage of weeds is crucial.	Group 6 (bromoxynil)	1	24	45
	<b>sencor</b>	<ul style="list-style-type: none"> <li>Proven broad spectrum herbicide for outstanding grass and broadleaf weed control</li> <li>Utilizing Group 5 mode of action helps manage and prevent Group 2 resistant broadleaf weeds</li> </ul>	For a complete list of weeds, refer to the Sencor® herbicide product label.	Sencor 480 F – L Sencor 75 DF – W	Maximum 2 applications	Sencor 75 DF - 190 g/ha (77 g/ac.) Sencor 480 F - 258 mL/ha (115 mL/ac.) <sup>1</sup> Post-emergent application only. Not registered for use on muck soils. Refer to Sencor label for post-emergent rates for your region. Do not apply on coarse soils with less than 2% organic matter.	Group 5 (metribuzin)	6	12	60
BIOLOGICALS	<b>MINUJET</b>	<ul style="list-style-type: none"> <li>Excellent mixing characteristics</li> <li>Low use rate and concentrated packaging for less bulk and waste</li> <li>Provides broad spectrum suppression against soil borne and other diseases</li> <li>OMRI-certified</li> </ul>	Rhizoctonia root rot*, black scurf and stem canker (Rhizoctonia solani)*, phytophthora root rot*, pythium root rot* and cavity spot*, 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)	When dry	4	0
	<b>SERENADE OPTI</b>	<ul style="list-style-type: none"> <li>Provides protection against foliar fungal diseases through multiple sites of action with a flexible application</li> <li>OMRI-certified</li> </ul>	White mould*	W	N/A	1.1 to 2.2 kg/ha (0.45 to 0.89 kg/ac.) Begin application soon after emergence and when conditions are conducive to disease development. Repeat as necessary on a 7 to 10 day interval.	FRAC Group BM02 ( <i>Bacillus subtilis</i> strain QST 713)	2	4	0
FUNGICIDES	<b>FLINT Extra</b>	<ul style="list-style-type: none"> <li>Low use rates in an easy-to-use liquid SC formulation</li> <li>Fungicide that works by interfering with respiration in plant pathogenic fungi</li> <li>It is a potent inhibitor of spore germination and mycelial growth</li> </ul>	Alternaria leaf blight, cercospora leaf spot of carrot	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
	<b>Luna SENSATION</b>	<ul style="list-style-type: none"> <li>Protects against key diseases resulting in increased yield potential</li> <li>Broad spectrum fungicide with preventative, systemic and curative properties</li> <li>Best used in a preventative program</li> </ul>	Alternaria blight, powdery mildew, cottony rot / sclerotinia rot	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.) Powdery mildew: 300 to 400 mL/ha (121 to 162 mL/ac.) Cottony rot / sclerotinia rot: 500 mL/ha (202 mL/ac.)	Group 7 & 11 (fluopyram, trifloxystrobin)	When dry	12	7
INSECTICIDES	<b>ADMIRE</b>	<ul style="list-style-type: none"> <li>Systemic insecticide that provides economical and enduring control of damaging insects</li> </ul>	Aphids, leafhoppers*	L	Maximum 1 foliar application	200 mL/ha (80 mL/ac.)	Group 4A (imidacloprid)	6	12	7
	<b>MOVENTO</b>	<ul style="list-style-type: none"> <li>Travels up and down the entire plant to protect leaves, roots and new growth</li> <li>Controls pests that products with only contact or translaminar activity often miss</li> <li>Long residual control provides extremely effective activity on hard-to-control pests</li> <li>Systemic insecticide, active primarily through ingestion by immature insect life stages</li> </ul>	Aphids, whiteflies	L	Maximum allowed per crop season: 730 mL/ha (295 mL/ac.)	220 to 365 mL/ha (89 to 148 mL/ac.)	Group 23 (spirotetramat)	1	12	1
	<b>SIVANTO prime</b>	<ul style="list-style-type: none"> <li>Fast acting. Provides quick knockdown and residual control of target pests while helping safeguard beneficial insects</li> <li>Provides quick feeding cessation</li> <li>Translaminar and local systemic movement allows targeting of insects feeding on the underside of leaves</li> </ul>	Aphids, leafhoppers, whiteflies	L	Maximum allowed per crop season: 2,000 mL/ha (810 mL/ac.)	Aphids, leafhoppers: 500 to 750 mL/ha (202 to 303 mL/ac.) Whiteflies: 750 to 1,000 mL/ha (303 to 405 mL/ac.) Minimum interval between applications is 10 days.	Group 4D (flupyradifurone)	1	12	7

<sup>1</sup> For the application rate and guidelines for processing carrots in Atlantic Canada only, refer to the Sencor 480 F product label.  
 \* Suppression  
 \*\* For resistance management, alternate strobilurin (Group 11) fungicide application with at least one application of a non-strobilurin fungicide.  
 \*\*\* 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.	P	Pre-Emerge	Planting	2 True Leaves	4 - 5 Leaf	Root Initiation	Root Development	Pre-Harvest
HERBICIDES	<b>PARDNER</b>	18001	Broadleaf weeds*							
	<b>sencor</b>	Sencor 480 F – 26280 Sencor 75 DF – 17242	Grass and broadleaf weeds Annual broadleaf weeds less than 4 cm in height							
BIOLOGICALS	<b>MINUET</b>	33651	Rhizoctonia root rot**, pythium root rot** and cavity spot**, fusarium root rot**							
	<b>SERENADE OPTI</b>	31666	White mould**							
FUNGICIDES	<b>FLINT Extra</b>	34962	Alternaria leaf blight, cercospora leaf spot							
	<b>Luna SENSATION</b>	32107	Alternaria blight, powdery mildew, cottony rot/ sclerotinia rot							
INSECTICIDES	<b>ADMIRE</b>	24094	Aphids, leafhoppers**							
	<b>MOVENTO</b>	28953	Aphids, whiteflies							
	<b>SIVANTO prime</b>	31452	Aphids, leafhoppers, whiteflies							

<sup>1</sup> Optimal application timing for Minuet is at planting.

\* Apply 3 to 4 days prior to crop emergence only

\*\*Suppression only

HERBICIDES BIOLOGICALS FUNGICIDES INSECTICIDES



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