

# Carrot

## Planting

Mid-April to early June. Treat seed with thiram 75% WP to prevent damping-off. Choose deep, fertile soils and provide adequate drainage. Soils should not be subject to compaction or high water tables during growing season. Excess moisture can cause forked roots, reducing quality. If plow pans are a concern, deep rip below the seed row before planting.

Carrots are susceptible to wind damage when first emerging from the soil. You can protect young seedlings by spreading oat seed over the soil just after planting. When carrots are several inches tall, use a selective postemergence grass herbicide to kill the oats.

**Rows:** 15–30 inches; use 2–4 lb seed/a (1–2 lb seed/a for Chantenay). Carrots can be grown in raised beds. Beds should be 3–4 feet wide with 3–4 rows per bed.

## Lime and fertilizer

**Lime:** Use dolomitic limestone to maintain a pH of 5.6 or higher in organic soils and at least 5.8 in other soils.

**Fertilizer rates:** Apply  $P_2O_5$  and  $K_2O$  according to soil test recommendations. Use annual nitrogen,  $P_2O_5$ , and  $K_2O$  recommendations listed in the table below. Take credits for previous legume crops and manure.

**Application:** Broadcast and work in before seeding. Where possible, avoid fall potash applications on organic soils.

**Nitrogen:** Apply preplant or sidedress. Split nitrogen into two or more applications on sandy soils.

**Micronutrients:** Carrots need moderate amounts of manganese, boron, and copper. Use soil and plant analyses to check for deficiencies of these nutrients. Foliar or banded micronutrient applications will likely be most effective on organic soils. Apply 1–3 lb Mn/a and 1–12 lb Cu/a, depending on soil and method of application.

## Irrigation

Early irrigation helps establish stands in hot, dry weather and is particularly important in the seedling stage. Carrots should not be under moisture stress at any time. Be sure to moisten soil to rooting depth when irrigating.

## Annual nitrogen, phosphate, and potash recommendations for carrot

Organic matter (%)	Nitrogen		Phosphate and potash	
	Amount to apply (lb/a)	Yield goal	Amount $P_2O_5$ to apply* (lb/a)	Amount $K_2O$ to apply* (lb/a)
<2	120	20–30 t/a	45	240
2.0–9.9	100			
10–20	80			
>20	40			

\*Amounts shown are for optimum (O) soil test levels. Apply 50% of this rate if soil test is high (H) and omit if soil test is excessively high (EH). If soil test is low (L) or very low (VL), increase rates according to soil test recommendations.

## Resistance/susceptibility of some carrot cultivars to aster yellows & their action thresholds (aster yellows index)

Resistant cultivars (aster yellows index of 100)					
Amtou	Gold King	Nanton	Raoleta	Scarlet Nantes ST	Tahoe*
Bercaro*	Growers Choice	Nimrod	Revo*	Sierra*	Texsun*
Charger	GT 26 Dicer	PrimeCut 59	Rona*	Sirocco	Toudo
El Presidente	Hi Color 9	Prospector	Royal Chantenay	Six Pak	Triple Play
Enterprise	Impak	PY 60**	Scarlet Nantes	Spearhead	
Intermediate cultivars (aster yellows index of 75)					
Baby 657*	Cupar	Hipak*	Lucky B	Nuggeteer*	Spartan Winner*
Bolero	Cutlass*	Interceptor	Midas Touch	Pakmor	SugarSnax 54
Bradford	Flavor Pak*	Javelin*	Morecuts	Pioneer*	Thor*
Bremen	Florida	Karotan*	Nagadir	Prodigy	Triple Gold
Canada	Goldpak 28, G	King Midas*	Nanco	Prospector	Trophy 301
Casey	Harvestmore*	Lance*	Nikki	Sabre 78*	
Columbia	Heritage	Long Imperator 58	Noveno	Spartan Fancy	
Susceptible cultivars (aster yellows index of 50)					
Aristopak*	Carson	Fancipak*	Nandor*	Regina*	Sytan
Arrowhead	Clairon Corona	Fina*	Nantes	Scarla*	Tamino*
Belikumar*	Dandy	Flacaro*	Nantes ST	Spartan Bonus	Tip Top*
Bersky	Danver's Gold*	Flakkese	Nantes Superior	Spartan Bonus 80	Touche
Bonanza	Danvers 126	Giganta	Orlando Gold	Spartan Delite*	Woodland*
Candy Pak	Dessert Danvers*	Goldpak	Red Cored Chantenay	Super Sprite	
Caromba	Early Gold	Lucky's Gold		Sweet N Crisp*	

\*Cultivars evaluated for 1 year only.

\*\*In thick stands only.

## Disease control in carrot

Disease	Active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Alternaria leaf blight and Cercospora leaf blight</b>	azoxystrobin	<i>Alternaria</i> : 6.0–15.5 fl oz Aframe, AzoxyStar, Quadris Flowable, Satori, Willowood Azoxy 2SC <i>Cercospora</i> : 9.0–15.5 fl oz Aframe, AzoxyStar, Quadris Flowable, Satori, Willowood Azoxy 2SC	0	Quadris, Satori, Quadris Opti, Quilt, Cabrio, and Flint belong to the Group 11 (strobilurin) fungicide category. Do not exceed 1 application of these products before alternating with a fungicide having a different mode of action. Do not exceed 3 applications of Group 11 fungicides per crop per year. AzoxyStar can be applied at a rate up to 20.0 fl oz/a for Alternaria and Cercospora.
	azoxystrobin + chlorothalonil	2.4 pt Quadris Opti	0	
	azoxystrobin + difenoconazole	12.0–14.0 fl oz Quadris Top	7	
	azoxystrobin + propiconazole	14.0 fl oz Quilt Xcel, Willowood AzoxyProp Xtra	14	
	pyraclostrobin	8.0–12.0 oz Cabrio EG	0	
	trifloxystrobin	2.0–3.0 oz Flint	7	

(continued)

Pest management

Asparagus

Bean

Carrot

Celery

Cole crops

Cucumber

## Disease control in carrot *(continued)*

Disease	Active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Alternaria leaf blight and Cercospora leaf blight</b> <i>(cont.)</i>	azoxystrobin + propiconazole	14.0 fl oz Quilt	14	Do not apply more than 55.0 fl oz/a per season. Make no more than 1 application of Quilt before alternating to a non-Group 11 fungicide.
	boscalid	4.5 oz Endura WDG	0	<b>For control of Alternaria leaf blight only.</b> Endura belongs to the Group 7 (anilide) fungicide category. Do not exceed 2 sequential applications of Endura before alternating to a labeled fungicide with a different mode of action. Do not exceed 5 applications per season. Do not exceed 22.5 oz/a Endura per season.
	boscalid + pyraclostrobin	8.0–10.5 oz Pristine WDG	0	Pristine belongs to Group 7 (anilide) and 11 (strobilurin) fungicide categories. Do not exceed 2 sequential applications of Pristine before alternating to a labeled fungicide with a different mode of action. Do not exceed 6 applications of Pristine or other Group 11 fungicide per season. Do not exceed 63.0 oz/a Pristine per season.
	chlorothalonil	1.5–2.0 pt Bravo Weather Stik, Echo 720, Equus 720 1.4–1.8 lb Bravo Ultrex 82.5WDG, Equus DF 1.25–1.63 lb Echo 90DF 2.25–2.75 pt Bravo Zn, Echo Zn, Equus 500 Zn	0	Apply at first sign of infection. Do not use tops for food or feed. Do not exceed 15.0 lb ai/a chlorothalonil per season.
			0	
			0	
			0	
	copper hydroxide	1.3 pt Champ Formula 2 4.6F 2 lb Kocide 101 77WP, DF 2.6 pt Kocide LF 2.4F 1.3 pt Kocide 4.5 LF 1.5–2.75 lb Kocide 2000 DF 0.75–1.5 lb Kocide 3000	0	
			0	
			0	
			0	
			0	
	cyprodinil + fludioxonil	11.0–14.0 oz Switch	7	<b>For control of Alternaria leaf blight only.</b> Ground application only. Do not apply more than 56.0 oz of Switch per crop per year.
	iprodione	1.0–2.0 pt Iprodione 4L AG, Meteor, Nevado 4F, Rovral 4F	0	<b>For control of Alternaria leaf blight only.</b> Note label for rotational crop restrictions.
penthiopyrad	16.0–30.0 fl oz Fontelis	0	Begin applications prior to disease development. Use higher rate and shorter spray interval when disease pressure is high. Make no more than 2 sequential applications before alternating to an effective fungicide with a different mode of action. Do not apply more than 61.0 fl oz/a per year.	
propiconazole	4.0 fl oz AmTide Propiconazole 41.8% EC, Bumper 41.8 EC, Fitness, PropiMax EC, Tilt, Willowood Propicon 3.6EC	14	Do not apply more than 16.0 fl oz/a Bumper 41.8 EC per season.	
		14		
	2.0 fl oz AmTide Propiconazole 41.8% EC, Bumper 41.8 EC, Fitness, PropiMax EC, Tilt <i>plus</i> 0.75 lb ai chlorothalonil, Willowood Propicon 3.6EC			

*(continued)*

**Disease control in carrot** *(continued)*

Disease	Active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions	
<b>Alternaria leaf blight and Cercospora leaf blight</b> <i>(cont.)</i>	trifloxystrobin	1.9–2.9 fl oz Gem 500 SC	7	Do not make more than one foliar application before alternating to an effective fungicide with a different mode of action. Do not apply more than 11.5 fl oz/a per season. Do not make more than 4 applications/a per season of Gem or other strobilurin-containing fungicide.	
<b>Aster yellows</b>	<i>Use an insecticide recommended for aster leafhopper. Treat from the seedling stage to 30 days before harvest. See treatment index for aster leafhopper.</i>				
<b>Bacterial blight</b>	<i>The best control is prevention. Use hot water treatment of seed at 122°F for 15 minutes.</i>				
<b>Cottony rot, watery soft rot, white mold</b> <i>(Sclerotinia sclerotiorum)</i>	boscalid	7.0–8.0 oz Endura	0	Apply prior to or at first sign of disease to optimize efficacy.	
	<i>Coniothyrium minitans</i> strain CON/M/91-08	1.0–4.0 lb Contans WG	0	Make broadcast application and incorporate Contans WG into top 2 inches of soil by implement or by irrigation.	
	fluazinam	1.0 pt Omega 500F	7	Do not make more than 4 applications per crop cycle. Do not apply more than 4.0 pt per growing season. Apply in 30–50 gal water/a as a directed band spray over the crop.	
	penthiopyrad	16.0–30.0 fl oz Fontelis	0	Begin applications prior to disease development. Use higher rate and shorter spray interval when disease pressure is high. Make no more than 2 sequential applications before alternating to an effective fungicide with a different mode of action. Do not apply more than 61.0 fl oz/a per year.	
<b>Damping-off, Pythium root die-back, and seed rot</b>	cyazofamid	6.0 fl oz Ranman	14	Do not use more than 30.0 fl oz per season. Do not use adjuvant when applying to carrots.	
	fenamidone	8.2 fl oz Reason	14	Do not apply more than 24.6 fl oz per season. Do not make more than 1 application of Reason without alternating to a different resistance management group.	
	fluopicolide	4.0 fl oz Presidio	7	Can be applied as an in-furrow treatment in 5–10 gal/a volume. Can be sidedressed in 20–40 gal/a spray mixture.	
	mefenoxam	0.5–1.3 pt Ridomil Gold SL 2.0–4.0 pt Ultra Flourish	—	—	Preplant-incorporated or at-planting surface application. Rotate with less-susceptible crops. Use raised beds and precision seeding.
		0.32–0.64 fl oz Apron XL LS/100 lb seed	—	—	Follow manufacturer's directions. Do not use treated seed for feed or food.
	metalaxyl	4.0–8.0 pt MetaStar 2E AG	—	—	Preplant-incorporated application or surface application at planting. Preplant to top 2 inches of soil.
		0.75 fl oz/100 lb seed Allegiance FL, Metalaxyl 265 ST 0.7 fl oz/100 lb seed Sebring 2.65 ST	—	—	Follow manufacturer's directions. Do not use treated seed for feed or food.

*(continued)*

Pest management

Asparagus

Bean

Carrot

Celery

Cole crops

Cucumber

**Disease control in carrot** *(continued)*

Disease	Active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Rhizoctonia seedling infection and crown rot</b>	azoxystrobin	0.4–0.8 fl oz Quadris Flowable/1,000 ft row	0	Follow manufacturer's directions.
<b>Root-knot nematodes</b>	metam-sodium	Vapam HL, Metam, Sectagon 42		Growing corn or sod for at least 3 years and then growing carrots for 1 year helps starve out root-knot larvae. Soil fumigation is effective but expensive on muck soils. Apply soil fumigants in the fall.

**Insect control in carrot**

Insect	Rate/a of active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Aphids</b>	<i>Treat when 25% of plants are infested.</i>			
	alpha-cypermethrin	3.2–3.8 fl oz *Fastac	1	Apply when pests reach or exceed established thresholds. Do not apply more than 11.4 fl oz of Fastac per acre per crop season.
	azadirachtin	1.0–3.5 pt Aza-Direct 10.0–21.0 oz Azatin XL Plus 0.5–2.0 gal Neemix 0.25EC 0.25–1.0 pt Neemix 4.5EC	0	Apply every 7 days as needed.
	0.08–0.1 lb bifenthrin	5.12–6.4 fl oz *Bifenture, *Brigade, *Sniper, or other registered product	21	Do not apply more than 0.5 lb ai/a per crop season. Allow at least 7 days between applications. Apply foliar applications in sufficient water volume.
	0.018–0.028 lb deltamethrin	1.5–2.4 oz *Delta Gold	3	Apply every 3 days as needed.
	0.5 lb diazinon	1 pt Diazinon AG500 1 lb Diazinon 50WP	14	Do not exceed 5 applications per season. Allow at least 7 days between applications.
	0.062–0.089 lb flonicamid	2.0–2.8 oz Beleaf SG	0	Begin applications before aphid populations build. Do not exceed 2.8 oz/a Beleaf per application and do not exceed 8.4 oz/a (0.267 lb ai/a) per crop season.
	flupyradifurone	7.0–10.5 fl oz Sivanto	7	Foliar application. Apply when pests reach or exceed established thresholds. Do not apply more than 28.0 fl oz of Sivanto per acre per crop season.
	imidacloprid	0.31–0.74 fl oz Admire Pro/1,000 ft row 4.4–10.5 fl oz Admire Pro 3.5 fl oz Provado	21 21 7	Admire may only be applied once per season. Apply Provado every 5 days as needed. Do not exceed 3 applications per season. Maximum imidacloprid use per season is 0.5 lb ai/a from any formulation.
	imidacloprid + beta-cyfluthrin	2.4–2.8 fl oz *Leverage 360	7	Do not apply more than 8.3 fl oz/a per season and allow at least 7 days between applications.
	0.94–1.25 lb malathion	Malathion EC, WP, D	7	See label for rate.

\*Restricted-use pesticide.

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**Insect control in carrot** *(continued)*

Insect	Rate/a of active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Aphids</b> <i>(cont.)</i>	thiamethoxam	1.5–3.0 oz Actara 25WDG	7	Apply before pests reach damaging levels. Use higher rate for heavy infestations. Do not exceed 8.0 oz/a per season.
		5.0–12.0 fl oz Platinum 2SC	0	Apply Platinum as an in-furrow spray or as a surface band at seeding. For surface-banded applications, irrigate within 24 hours to seeding depth using trickle or drip irrigation. Do not apply more than 12.0 fl oz Platinum 2SC or 4.01 oz Platinum 75SG per acre per crop season and apply sufficient water volume after application to ensure incorporation into the seed zone.
		1.07–4.01 oz Platinum 75 SG	0	
		0.02–0.025 lb zeta-cypermethrin	3.2–4.0 oz *Mustang Maxx	
0.04–0.1 lb zeta-cypermethrin + bifenthrin	4.0–10.3 fl oz *Hero	21	Do not apply more than 0.2 lb ai/a or exceed 2 applications per season.	
<b>Aster leafhopper</b>	<i>For treatment thresholds, see "Aster Yellows Index" on page 16.</i>			
	alpha-cypermethrin	1.8–3.8 fl oz *Fastac	1	Apply when pests reach or exceed established thresholds. Do not apply more than 11.4 fl oz of Fastac per acre per crop season.
	0.0125–0.022 lb beta-cyfluthrin	1.6–2.8 fl oz *Baythroid XL	0	Apply every 7 days; do not exceed 5 applications.
	1.5 lb carbaryl	Sevin WP, D	7	See label for rate. Apply at 5- to 7-day intervals. Can only be used with mechanical harvest.
	0.018–0.028 lb deltamethrin	1.5–2.4 oz *Delta Gold	3	Apply every 3 days as needed.
	0.03–0.05 lb esfenvalerate	5.8–9.6 fl oz *Asana XL	7	Do not exceed 0.5 lb ai/a per season.
	flupyradifurone	7.0–10.5 fl oz Sivanto	7	Foliar application. Apply when pests reach or exceed established thresholds. Do not apply more than 28.0 fl oz of Sivanto per acre per crop season.
	imidacloprid + beta-cyfluthrin	2.4–2.8 fl oz *Leverage 360	7	Do not apply more than 8.3 fl oz/a per season and allow at least 7 days between applications.
	0.225–0.9 lb methomyl	0.75–3.0 pt *Lannate LV	1	Apply thiamat 5- to 7-day intervals. Do not exceed 6.3 lb/a of product per season.
	thiamethoxam	1.5–3.0 oz Actara 25WDG	7	Apply before pests reach damaging levels. Use higher rate for heavy infestations. Do not exceed 8.0 oz/a per season.
		5.0–12.0 fl oz Platinum 2SC	0	Apply Platinum as an in-furrow spray or as a surface band at seeding. For surface-banded applications, irrigate within 24 hours to seeding depth using trickle or drip irrigation. Do not apply more than 12.0 fl oz Platinum 2SC or 4.01 oz Platinum 75SG per acre per crop season and apply sufficient water volume after in-ground application to ensure incorporation into the seed zone.
		1.07–4.01 oz Platinum 75SG	0	

\*Restricted-use pesticide.

*(continued)*

Pest management

Asparagus

Bean

Carrot

Celery

Cole crops

Cucumber

## Insect control in carrot *(continued)*

Insect	Rate/a of active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Aster leafhopper</b> <i>(cont.)</i>	0.011–0.025 lb zeta-cypermethrin	1.76–4.0 oz *Mustang Maxx	1	Apply at thresholds and do not exceed 24.0 oz/a Mustang Maxx per season.
<b>Black cutworms</b>	<i>Spot treat when numbers exceed two larvae per foot of row.</i>			
	alpha-cypermethrin	1.3–3.8 fl oz *Fastac	1	Apply when pests reach or exceed established thresholds. Do not apply more than 11.4 fl oz of Fastac per acre per crop season.
	azadirachtin	1.0–3.5 pt Aza-Direct 10.0–21.0 oz Azatin XL Plus 0.5–2.0 gal Neemix 0.25EC 0.25–1.0 pt Neemix 4.5EC	0	Apply every 7 days as needed.
	0.0125–0.022 lb beta-cyfluthrin	1.6–2.8 fl oz *Baythroid XL	0	Apply every 7 days; do not exceed 5 applications.
	1.0–2.0 lb carbaryl	Sevin Bait	7	Broadcast bait formulation. See label for rate. Can only be used with mechanical harvest.
	0.03–0.05 lb esfenvalerate	5.8–9.6 fl oz *Asana XL	7	Do not exceed 0.5 lb ai/a per season.
	imidacloprid + beta-cyfluthrin	2.4–2.8 fl oz *Leverage 360	7	Do not apply more than 8.3 fl oz/a per season and allow at least 7 days between applications.
	0.008–0.025 lb zeta-cypermethrin	1.28–4.0 oz *Mustang Maxx	1	Apply at thresholds and do not exceed 24.0 oz/a Mustang Maxx per season.
	0.025–0.06 lb zeta-cypermethrin + bifenthrin	2.6–6.1 fl oz *Hero	21	Do not apply more than 0.2 lb ai/a or exceed 2 applications per season.
<b>Carrot weevil</b>	<i>Carrot weevil populations are easily managed by spraying every 3–5 days for 2 weeks once eggs are found.</i>			
	0.044 lb beta-cyfluthrin	2.8 fl oz *Baythroid XL	0	Apply every 7 days; do not exceed 5 applications.
	0.03–0.05 lb esfenvalerate	5.8–9.6 fl oz *Asana XL	7	Direct spray at crown. Apply higher rate when weevils are active.
	imidacloprid + beta-cyfluthrin	2.4–2.8 fl oz *Leverage 360	7	Do not apply more than 8.3 fl oz/a per season and allow at least 7 days between applications.
	0.5–1.0 lb oxamyl	2.0–4.0 pt *Vydate L	14	Apply as directed spray. Do not apply more than 4.0 gal/a per season.
<b>Seed corn maggot</b>	imidacloprid	6.4 fl oz Gaucho 600	—	To provide early-season protection of seedlings as a commercial seed treatment.

\*Restricted-use pesticide.

## Weed control in carrot

Weed	Rate/a of active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Annual weeds</b>	1.0–2.0 lb prometryn	2.0–4.0 pt Caparol 4L or Vegetable Pro	30	Caparol 4L can be applied preemergence and/or postemergence over the top to carrot. Apply up to 3 applications of Caparol 4L at the rate of 2.0–4.0 pt/a per application. Do not exceed one preemergence application at up to 4.0 pt/a and two postemergence applications each at up to 2.0 pt/a or one postemergence application at up to 4.0 pt/a per crop cycle. Maximum seasonal use varies by label. Make postemergence applications through the six-leaf stage of carrot development. See label for adjuvant instructions when making postemergence applications.
<b>Annual broadleaves and some grasses</b>	linuron	Lorox DF <i>(use and rate vary by soil type—see label)</i>	14	Use included on a Wisconsin Special Local Needs 24c label. Use restricted by soil type, organic matter, and depth to groundwater. See label for details.
	trifluralin	several manufacturers		Apply as a preplant soil-incorporated treatment only. Treflan 4D may be applied through chemigation. Controls annual grasses and some broadleaf weeds, but is weak on wild mustard, smartweed, common ragweed, velvetleaf, and black nightshade. Rate varies depending on soil texture and organic matter. Must be incorporated within 24 hours. See label for plantback restrictions. Ineffective on peat or muck soils.
<b>Annual grasses and some broadleaves</b>	0.95 lb pendimethalin	2.0 pt Prowl H <sub>2</sub> O	60	Apply preemergence as a broadcast treatment within 2 days after planting or at layby as a directed spray to the soil between rows. Emerged weeds will not be controlled. Do not allow the spray to contact carrot plants or injury may occur.
<b>Emerged weeds</b>	glyphosate	several manufacturers and formulations available		See manufacturer's label to assure that the formulation is labeled for this crop and for specific instructions. Glyphosate may be applied any time before crop emerges. Apply before crop seed germination in coarse sandy soils. If weeds have been mowed or tilled, do not treat until they have resumed active growth and reached the recommended stage on the label. Unless otherwise stated, allow 7 or more days before tilling treated fields. Do not tank mix with soil-residual herbicides unless otherwise specified.
	*paraquat	several manufacturers and formulations available, not all are registered for this use		Prepare seedbed early to allow for maximum weed emergence. Application can be made as a banded or broadcast treatment before, during, or after planting, but before crop emergence. In preplant and preemergence (to the crop) uses, do not apply to soils lacking clay minerals, i.e., muck, pure sand. Use the higher rate for heavy weed infestations. Minimize soil disturbance during seeding. Always add crop oil concentrate or non-ionic surfactant to spray mixture. Follow precautions on label.
<b>Emerged grasses</b>	0.068–0.12 lb clethodim	9.0–16.0 oz Select Max	30	Apply to actively growing grasses. Repeat treatments may be made at 14-day intervals up to the maximum annual use rate. Do not cultivate grasses within 7 days before or after application. Include appropriate surfactant as required by label. Do not apply if rain is expected within 1 hour.
	0.094–0.125 lb clethodim	6.0–8.0 oz Select 2EC	30	

\*Restricted-use pesticide.

(continued)

Pest management

Asparagus

Bean

Carrot

Celery

Cole crops

Cucumber

**Weed control in carrot** *(continued)*

Weed	Rate/a of active ingredient	Rate/a of commercial product	Days to harvest	Remarks and suggestions
<b>Emerged grasses</b> <i>(cont.)</i>	0.13–0.38 lb fluazifop-P-butyl	0.5–1.5 pt Fusilade DX	45	Make postemergence applications when actively growing grasses are in the size ranges specified on the label. Always add one of the following to the finished spray volume: 1% crop oil concentrate or 0.25% non-ionic surfactant. Multiple applications may be made to control late germinating grasses but do not exceed 3.0 pt/a Fusilade DX in one crop season.
	0.094–0.47 lb sethoxydim	0.5–2.5 pt Poast	30	Apply postemergence to actively growing grasses. Always add 1.0 qt/a of crop oil concentrate to the spray mix. Multiple applications may be made allowing 14 days between applications, but do not apply more than 5.0 pt/a of Poast per season. Do not apply if rain is expected within 1 hour.
<b>Emerged annual broadleaves</b>	metribuzin	see label	60	Postemergence applications may be made after carrots have formed five to six true leaves but before weeds are 1 inch in height or diameter. If needed, a second application may be made after an interval of at least 3 weeks but do not exceed 0.5 lb ai/a in one crop season. Check rotational restrictions prior to use. Excessive crop injury may occur if applications are made on very hot days, to drought-stressed carrots, or within 3 days after periods of cool, wet, or cloudy weather. Do not apply metribuzin within 3 days of any other chemical or when carrots are under stress. For carrots with unknown tolerance to metribuzin, treat a small area initially. See label for rotation restrictions.

\*Restricted-use pesticide.