

# 1973

## OREGON WEED CONTROL RECOMMENDATIONS FOR COMMERCIAL VEGETABLE CROPS

**Extension Service**

**Oregon State University, Corvallis**

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**Oregon Weed Control Recommendations for Commercial Vegetable Crops**

CROP	CHEMICAL	ACTIVE INGREDIENTS	TIME	REMARKS
ARTICHOKES	Sinazine (Princep)	4 lbs.	Fall	
	Diuron	3.2 lbs.	Fall	
ASPARAGUS Seedbed	Chloramben (Vegiben)	3 lbs.	Pre-emergence	Needs moisture
Established fields	Mineral spirits	50 gals.	Postemergence	Apply before broadleaf weeds have more than 4 true leaves
	Parquat	1 to 1½ lbs.	Pre-emergence	Effective only on emerged weeds
	Monuron (Telvar) or Simazine (Princep)	1.6 to 3.2 lbs.	Fall or spring	After ferns die down, before spears emerge, or after cutting
	2,4-D (sodium) Dalapon	1.6 to 2 lbs. 7.4 lbs.	Spring Spring	For field bindweed control Spot spray for grass control
BEANS, snap and lima	Dinitro amine	3 to 6 lbs. 1½ to 4½ lbs.	Pre-emergence Postemergence	When most beans are in crook stage; use low rate for high temperature
	Fluorodiphen (Soyex)	3 to 4½ lbs.	Immediately after seeding	
	Trifluralin (Treflan)	½ to ¾ lb.	Preplant	Work into soil thoroughly
	Nitralin (Planavin)	½ to 1½ lbs.	Preplant	Adjust rate to soil type
	Chloramben (Vegiben)	3 lbs.	Pre-emergence	
Snap beans only (Incl. Romano)	EPTC (Eptam)	3 lbs.	Preplant	Work into soil immediately
	DCPA (Dacthal)	9 lbs.	Pre-emergence	
BEETS	Salt (sodium chloride)	200 lbs.	Postemergence	After beets have 2 or 3 leaves. Use in 100 to 150 gallons of water
	Sulfallate (Vegadex)	6 lbs.	Pre-emergence	
	Pyrazon (Pyramin)	4 lbs.	Pre- or postemergence	
	EPTC (Eptam)	2 lbs.	Preplant	Work into soil immediately
	Cycloate (Ro-Neet)	3 to 4 lbs.	Preplant	Work into soil immediately
	Phenmedipham (Betanal)	1 to 1½ lbs.	Postemergence	Apply when weeds are small, avoid high temperatures
	BROCCOLI BRUSSELS SPROUTS CABBAGE CAULIFLOWER	Bensulide (Prefar)	5 to 6 lbs.	Preplant or pre-emergence
Sulfallate (Vegadex)		4 lbs.	Immediately after seeding	When crop is grown by direct seeding
		6 lbs.	After transplanting	Direct the spray to base of plants
Trifluralin (Treflan)		½ to ¾ lb.	Before seeding or before transplant	Work into soil thoroughly
DCPA (Dacthal)		9 lbs.	After seeding or transplanting	
Nitrofen (TOK)		3 to 6 lbs.	Pre-emergence or postemergence	
CANTALOUPE CUCUMBERS WATERMELONS	NPA (Alanap liquid)	4 lbs.	Immediately after seeding	Requires soil surface moisture
	DCPA (Dacthal)	9 lbs.	4 to 6 weeks after seeding	
	Bensulide (Prefar)	6 lbs.	Preplant	Incorporate shallowly
	Sulfallate (Vegadex)	4 lbs.	Immediately after seeding	
	Chloramben (Vegiben)	2 to 3 lbs.	Pre-emergence	
	Paraquat	½ to 1 lb.	Pre-emergence	Use for emerged weeds
CARROTS CELERY DILL PARSLEY PARSNIPS	Mineral spirits	60 to 80 gals.	Postemergence	Apply when crop plants have 3 leaves and weeds have emerged
	Linuron (Lorox)	2 lbs.	Pre- or post-emergence	For carrots only
	Nitrofen (TOK)	2 to 6 lbs.	Pre- or post-emergence	Carrots, celery and parsley only
	Trifluralin (Treflan)	½ to ¾ lb.	Preplant	Work into soil thoroughly Carrots and celery only

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CORN, sweet	Atrazine (AAtrex)	1.6 lbs.	Pre-emergence to weeds and within 3 weeks of planting.	Use shallow soil incorporation or follow application with light irrigation (1 inch) for best results
	Atrazine plus Paraquat	4 lbs. 2 to 3 lbs. active Atrazine plus $\frac{1}{4}$ to $\frac{1}{2}$ lb. active Paraquat	Preplant or pre-emergence	For control of quackgrass or other perennials Follow tank mixing directions carefully Alachlor (Lasso) may be added where a grass problem is anticipated
	Atrazine plus oil	1 to 1.6 lbs. active Atrazine plus 1 to 2 gals. oil	Postemergence	When weeds are small  Use only oil labeled for this use
	Cyanazine (Bladex)	1.2 to 3.2 lbs.	Pre-emergence	
	Dinitro amine	6 lbs. $1\frac{1}{2}$ to 3 lbs.	Pre-emergence Postemergence	May be delayed until just before corn emerges When corn is spike stage (1 to 2 inches tall); use low rates for high temperatures Best used with atrazine or 2,4-D
	Propachlor (Ramrod)	5 lbs.	Pre-emergence	
	Alachlor (Lasso)	$2\frac{1}{2}$ lbs.	Pre-emergence	
	EPTC (Eptam)	2 to 3 lbs.	Preplant	Work into soil immediately
	Butylate (Sutan)	4 lbs.	Preplant	Plant corn shallowly. Not recommended for use in corn planted for hybrid seed. For control of nutgrass and barnyardgrass
2,4-D amine	$\frac{1}{2}$ lb.	Postemergence	After corn is up and until lay-by time Direct spray to base of plants after corn is 1 foot tall	
GARLIC	Trifluralin (Treflan)	$\frac{1}{2}$ to $\frac{3}{4}$ lbs.	Preplant	Work into soil thoroughly
	Dinitro selective DCPA (Dacthal)	1 lb.	Pre-emergence	Before garlic is 6 inches high
		9 lbs.	Pre-emergence	
LEAF CROPS Beet greens Collards Kale Mustard Rape Spinach Turnip greens Spinach only	Trifluralin (Treflan)	$\frac{1}{2}$ to $\frac{3}{4}$ lbs.	Preplant	Work into soil thoroughly
	Sulfallate (Vegadex)	3 to 4 lbs.	Postemergence	Follow application immediately with light irrigation (1 inch)
	CIPC (Chlorpropham)	1 lb.	Pre-emergence	For fall plantings for spinach only
	DCPA (Dacthal)	9 lbs.	Pre-emergence	
LETTUCE	Sulfallate (Vegadex)	4 lbs.	Pre-emergence	Follow application immediately with light irrigation
	IPC (Propham)	6 lbs.	Preplant or pre-emergence	
	Benefiin (Balan)	$\frac{3}{4}$ to 1 lb.	Preplant	Work into soil thoroughly
	Paraquat	1 lb.	Preplant or pre-emergence to crop	Postemergence on weeds
	Bensulide (Prefar)	5 to 6 lbs. active	Preplant or Pre-emergence	Incorporate preplant applications. Apply 1 inch of water by sprinkler irrigation for pre-emergence applications
ONIONS	CIPC	4 to 6 lbs.	Pre-emergence or postemergence	Organic soils
	CDAA (Randex)	6 lbs.	Pre-emergence or postemergence	Organic soils (more than 20% organic matter) Do not use on green onions
	DCPA (Dacthal)	6 to 9 lbs.	Pre-emergence	
	Chloroxuron (Tenoran)	3 to 4 lbs.	Postemergence	When weeds are less than 2 inches tall and onions have reached the two true leaf stage
	Nitrofen (TOK)	3 to 4 lbs.	Postemergence	When weeds are small and onions have reached the two true leaf stage

CROP	CHEMICAL	ACTIVE INGREDIENTS	TIME	REMARKS
PEAS	MCPB Dinitro amine	$\frac{3}{4}$ to 1 lb. 3 to 6 lbs. $\frac{3}{4}$ to 1 $\frac{1}{2}$ lbs.	Postemergence Pre-emergence Postemergence	Use before flower buds form  Before peas bloom; air temperature must be less than 85° F.
	Propachlor (Ramrod)	3.9 to 4.9 lbs.	Pre-emergence	
	Diallate or Triallate (Avadex)	1 $\frac{1}{2}$ lbs.	Preplant	For wild oat control work into soil by cross discing
	Barban (Carbyne)	$\frac{1}{2}$ lb.	Postemergence	For wild oat control. Apply when wild oats have 2 to 3 leaves.
	Trifluralin (Treflan)	$\frac{1}{2}$ to $\frac{3}{4}$ lb.	Preplant	Work into soil thoroughly
	Nitralin (Planavin)	$\frac{1}{2}$ to 1 $\frac{1}{2}$ lbs.	Preplant	Higher rates on heavy soils only
PEPPERS	Diphenamid (Dymid or Enide)	3 to 5 lbs.	Pre-emergence or 1 month after trans- planting	Use low rate on light soil
	Chloramben (Vegiben)	4 lbs.	After trans- planting	Only on transplanted crop
	Trifluralin (Treflan)	$\frac{1}{2}$ to $\frac{3}{4}$ lb.	Before transplanting	Work into soil thoroughly
SQUASH	Chloramben (Vegiben)	4 lbs.	Pre-emergence	
	Bensulide (Prefar)	6 lbs.	Preplant	Incorporate shallowly
TOMATOES	Diphenamid (Dymid or Enide)	4 to 6 lbs.	Immediately after seeding or trans- planting	Use low rate on light soil
	Chloramben (Vegiben)	4 lbs.	After trans- planting	Only on transplanted crop
	Bensulide (Prefar)	4 to 5 lbs.	Preplant	Incorporate shallowly
	Isopropalin (Paarlan)	1.1 to 1.9 lbs.	Preplant	

NOTE: 1. The chemical rates suggested are for complete coverage applications. For band applications reduce the quantity of material used proportionate to the area actually sprayed.  
2. For spray applications use 20 or more gallons of water per acre.  
3. Pre-emergence applications of herbicides are more satisfactory if applied to moist soil and followed immediately by a light irrigation or rain.

The first line of defense against weeds is the use of good cultural practices. In fields with known weed infestations, where possible, select crops that respond to weed-control programs for the weed species present. Adequate seedbed preparation improves the effectiveness of chemical weed-control programs.

Use close row spacings, where it is not possible to cultivate between the rows, only if it is certain that an adequate chemical weed-control program is available.

Weeds are killed most easily when conditions favor germination of weed seeds and rapid plant growth. Satisfactory results can be expected if herbicides are applied as directed and under normal conditions. Unusual temperatures or rainfall at the time of, or soon after, application of herbicides may cause unsatisfactory results.

Soil characteristics, such as clay content and organic matter level, strongly influence, the effect of some herbicides. Heavier soils usually require higher rates of appli-

cation of pre-emergence herbicides to obtain weed control than do lighter, sandy soils.

Tank mixes of herbicides should be limited to those that are registered for that use as indicated by the product label. Other combinations of materials suggested for weed control on horticultural crops should be applied in separate applications.

**Remember:** All agricultural chemicals are dangerous if not handled properly. Store in locked compartments away from children and destroy empty containers. Follow manufacturer's safety recommendations as listed on the label.

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