

sethoxydim (Segment and others)

Rate 0.28 to 0.47 lb ai/a (2.25 to 3.75 pints/a Segment), depending on grass species and height

Time Apply at optimum growth stage listed on the label.

Remarks Identify susceptible grasses. Control often is erratic on grasses stunted or stressed from drought, high temperatures, or low fertility. Resistant grasses include annual bluegrass and all fine fescues; quackgrass can be suppressed. Inhibits fatty acid production, cell membranes, and new growth.

Caution Do not mix or apply with any other pesticide, additive, or fertilizer except as specified on the label.

Site of action Group 1: acetyl CoA carboxylase (ACCase) inhibitor

Chemical family Cyclohexanedione

triclopyr (Garlon 3A, Vastlan, and others)

Rate 0.75 to 1.875 lb ae/a (2 to 5 pints/a) depending on weed species and formulation

Time Apply in late summer or early fall after trees' terminal growth has hardened off, but before target weeds drop leaves.

Remarks To control woody plants and perennial and broadleaf weeds. Select application equipment to prevent tree injury by directing spray toward base of plants or with selective applicators. Ester formulations are more volatile than amine/choline formulations.

Caution Triclopyr spray solutions can injure needles and branches.

Site of action Group 4: synthetic auxin

Chemical family Carboxylic acid

Herbicide Effectiveness in Christmas Trees

	2,4-D	Asulam (Asulox)	Atrazine	Atrazine + 2,4-D Isooctyl ester (Shotgun)	Clethodim (Envoy and others)	Clopyralid (Stinger)	Flazasulfuron (Mission)	Fluazifop (Fusilade DX)	Flufenacet + metribuzin (Axiom DF)	Glufosinate (Finale)	Glyphosate (Round-up and others)	Hexazinone (Veipar L)	Oryzalin (Oryzalin 4S)	Oryzalin + benefin (XL 2G)	Oryzalin (Surflan) + simazine (Princep)	Oxyfluorfen (Goal)	Pendimethalin (Pendulum)	Prodiamine (Barricade)	Pronamide (Kerb)	Sethoxydim (Poast, Vantage)	Simazine (various products)	Triclopyr (Vastlan)
Type (Soil, Foliar)	F	F	S, F	S, F	F	F	S, F	F	S	F	F	S	S	F	S	S, F	S	S	S	F	S	F
BROADLEAVES																						
Bindweed, field	G	P	P	G	NU	G	P	NU	P	P	F		P	P	P	P	P	P	P	NU	P	F
Clovers	G	P	F	G	NU	E	G	NU	F	F	G	G	P	P	P	G	F		P	NU	P	G
Dandelion	G	P	P	G	NU	G	E	NU	F	F	G	G	P	P	G	G	P		P	NU	P	G
Dandelion, false	G	F	P	G	NU	G	E	NU	F	F	G	G	P	P	G	G	P		P	NU	P	G
Dock, curly	F	F	P	F	NU	P	P	NU		P	G	F	P	P	F	G	F		S	NU	P	
Filaree	F	P	F	G	NU		G	NU		F	F	G		G	F	G	F		R	NU	P	G
St. Johnswort			-	-	NU			NU							G		P			NU		
Groundsel, common			G	G	NU	E	G	NU		F	E				G		P			NU		
Hawksbeard			-		NU		E	NU							G	G	P		P	NU		
Knotweed	G		G	G	NU	P	F	NU		F	F	G	F	G	G	F	G	G	F	NU	F	
Lambsquarters	G		E	E	NU	F	G	NU		G	E	G	G	G	G	E	G	G	F	NU	E	
Lettuce, prickly	G		G	G	NU	E	G	NU		G	G	G	P	F	F	G	P		P	NU	G	
Marestail			-		NU		G	NU		F	G	G			P		P			NU		
Mullein			-		NU			NU		F	F						F			NU		
Mustards	G		G	G	NU	F	F	NU		G	G	G	P	P	P	F	G	G	F	NU	G	
Oxeye daisy			P	F	NU	F	F	NU		P	F						F			NU		
Pigweed			G	E	NU	G	F	NU		G	E		G	G	G	E	G	G	F	NU	G	

	2,4-D	Asulam (Asulox)	Atrazine	Atrazine + 2,4-D Isooctyl ester (Shotgun)	Clethodim (Envoy and others)	Clopyralid (Stinger)	Flazasulfuron (Mission)	Fluazifop (Fusilade DX)	Flufenacet + metribuzin (Axiom DF)	Glufosinate (Finale)	Glyphosate (Round-up and others)	Hexazinone (Velpar L)	Oryzalin (Oryzalin 4S)	Oryzalin + benefin (XL 2G)	Oryzalin (Surflan) + simazine (Princep)	Oxyfluorfen (Goal)	Pendimethalin (Pendulum)	Prodiamine (Barricade)	Pronamide (Kerb)	Sethoxydim (Poast, Vantage)	Simazine (various products)	Triclopyr (Vastlan)
Type (Soil, Foliar)	F	F	S, F	S, F	F	F	S, F	F	S	F	F	S	S	F	S	S, F	S	S	S	F	S	F
Plantain		P	P	F	NU		G	NU		F	G		P	P	F	G			P	NU	G	
Queen Anne's lace			P	F	NU		E	NU		F	G		P	P	F		P	P	P	NU		
Ragwort, tansy		F	-		NU	E	F	NU		F	G		P	P	F		P		P	NU		
Sowthistle, annual	G		F	G	NU	E	G	NU		P	G	G	P	F	G		P		P	NU	G	
Sowthistle, perennial	G	P	P	G	NU	G	G	NU		P	G	F	P	P	F		P		P	NU		
Spotted catsear	E	P	F	G	NU	G	G	NU		F	G	F			G		P			NU	G	
Thistle, bull	G	P	P	F	NU	E	F	NU		F	G		F	F		G	P		P	NU	G	
Thistle, Canada	G	P	P	F	NU	E	P	NU		P	F		P	P		F	P		P	NU	P	G
Willow herb			F	G	NU	F	E	NU		F	F				F		P			NU		
Vetch	G		F	G	NU	E	F	NU		F	G						F			NU	F	G
GRASSES																						
Barnyard-grass	P		P	P	G	NU	P	G	G	F	G	G	G	G	G	P	E	G	F	G	G	P
Bentgrass	P		P	P	F	NU	P	F	F	P	G		P	P	P		G	G	P	F		P
Bluegrass, annual	P	G	P	P	E	NU	P	E	E	G	G	G	G	G	G	G	E	G	P	E	G	P
Bromegrass	P		P	P	G	NU	P	G	G	G	G	G	G	G	G	G	F		P	G	G	P
Fescues, fine	P		P	P	F	NU	P	F	G	F	F				G		G	G	G	F		P
Fescues, tall	P	P	P	P	F	NU	P	F	G	F	F	F	F	F	G	G	G	G	G	F	P	P
Orchardgrass	P	F	P	P	G	NU	P	G	G	F	G	F	P	P	G		G		G	G	P	P
Quackgrass	P	P	P	P	F	NU	P	F	G	P	F	G	P	P	P		P		G	F	P	P
Ryegrass, annual	P	P	P	P	G	NU	G	G	G	F	G	G	G	G	G	G	G	G	G	G	G	P
Ryegrass, perennial	P	F	P	P	G	NU	G	G	G	F	G	F	P	P	G		G	G	G	G	P	P
Velvetgrass	P		P	P	G	NU	F	G	G	F	G		P	P	G		G		G	G	P	P
Witch grass	P		P	P	G	NU	F	G	G	F	G	F			G		E	G	G	G		P
WOODY SPECIES																						
Alder	F	R	P	F	NU			NU								P	NU	NU	P	NU	P	G
Blackberry, evergreen	G	R	P	F	NU	F	P	NU				G	P	P		P	NU	NU	P	NU	P	G
Blackberry, Himalaya	G	R	P	F	NU	F	P	NU				G	P	P		P	NU	NU	P	NU	P	G
Blackberry, trailing	G	R	P	F	NU	F	P	NU	P	P	P	P	P	P	P	P	NU	NU	P	NU	P	G
Cherry	G	R	P	F	NU			NU	P	P	G					P	NU	NU	P	NU	P	P
Cottonwood	F	R	P	F	NU		E	NU								F	NU	NU	P	NU	P	G
Maple	F	R	P	F	NU			NU								P	NU	NU	P	NU	P	F
Maple, vine	F	R	P	F	NU			NU								P	NU	NU	P	NU	P	G

	2,4-D	Asulam (Asulox)	Atrazine	Atrazine + 2,4-D Isooctyl ester (Shotgun)	Clethodim (Envoy and others)	Clopyralid (Stinger)	Flazasulfuron (Mission)	Fluazifop (Fusilade DX)	Flufenacet + metribuzin (Axiom DF)	Glufosinate (Finale)	Glyphosate (Round-up and others)	Hexazinone (Velpar L)	Oryzalin (Oryzalin 4S)	Oryzalin + benefin (XL 2G)	Oryzalin (Surflan) + simazine (Princep)	Oxyfluorfen (Goal)	Pendimethalin (Pendulum)	Prodiamine (Barricade)	Pronamide (Kerb)	Sethoxydim (Poast, Vantage)	Simazine (various products)	Triclopyr (Vastlan)
Type (Soil, Foliar)	F	F	S, F	S, F	F	F	S, F	F	S	F	F	S	S	F	S	S, F	S	S	S	F	S	F
Oak	F	R	P	F	NU			NU								P	NU	NU	P	NU	P	F
Poison-oak	F	R	P	G	NU	F		NU			F		P	P		P	NU	NU	P	NU	P	G
Salal		R	P		NU			NU								P	NU	NU	P	NU	P	
Scotch broom	P	R	P		NU			NU			F		P	P		P	NU	NU	P	NU	P	F
Willow		R	P		NU		F	NU								P	NU	NU		NU	P	F
OTHER WEEDS																						
Fern, bracken	P	G	P	P	NU	NU		NU	NU	NU	P	F	P	P		P	NU	NU	P	NU	F	P
Horsetail, field	P	P	NU	NU	NU	NU	P	NU	NU	F	P		P	P		P	NU	NU	P	NU		P

E = excellent (90 to 100% control); G = good (80 to 90% control); F = fair (70 to 80% control); P = poor (<70% control);
 NU = not used for this pest;
 Note: Weed size or stage of growth is an important consideration with most post-emergence herbicides.
 In "Type" row S = soil-active against pre-emerged weeds; F = foliar-active against emerged weeds.