

**Effectiveness of Major Forestry-registered Herbicides  
during Seasons of Optimum Usage  
from the 2006 PNW Weed Management Handbook  
Adapted by John Punches, Extension Forester**

<b>Chemical Name</b> (season of use)	atrazine (spring)	clopyralid (all)	glyphosate (late summer)	picloram (all)	2,4-D (spring, fall)	hexazinone (spring)	sulfometuron (fall)	metasulfuron (summer)	metasulfuron (fall)	triclopyr (spring)	imazapyr (late summer)
<b>Common Name(s) of Products Labeled for Oregon Forestry Applications (no endorsement implied)</b>	Atrazine, Conifer 90	Transline	Many***	Tordon, Pathway	Many	Velpar, Pronone	Oust	Escort	Escort	Garlon, Pathfinder II	Arsenal, Chopper
<b>Species</b>											
<b>Conifers</b>											
Douglas-fir	R	R	I-R	S	I-R	R	I-R	S	I	I	I
Firs, true	R	R	R	S	S-I	R	R	S	-	I	I
Hemlock	I-R	R	I-R	S	I-R	R	R	S	-	I	I
Pines	R	R	I-R	I-S	S-I	R	R	S	-	S	I
Redcedar, western	I-R	R	S	S	S	S	I-R	S	I-R	S	-
<b>Woody Weed Species</b>											
Alder			I	S	I-S	I-R	I-R	R	R	S	S
Blackberry			I	S	R	I	I	S	S	S	I-R
Cascara			S	I	I	R	-	I	-	S	I
<i>Ceanothus</i> spp.			I-R*	-	S	I	-	I	-	S	S
Cherry			S	S	S	R	-	S	-	I	S
Chinquapin			I-R*	-	I	R	-	I	-	S	-
Elderberry		S	S	S	R	R	-	S	R	S	S
Hazel			S	I	I	R	-	-	-	I	S
Madrone			I-R*	S	S	R	-	I	-	I	S
Manzanita spp.			R	S	S	R	-	I	-	R	R
Maple, bigleaf			I	I	R	R	R	R	R	I	S
Maple, vine			S	I-S	R	R	R	R	R	I-S	S
Poison-oak			S	S	R	R	R	-	-	I-S	S
Salmonberry			S	I	R	I	I	S	S	I	I
Snowberry			S	-	I-S		-	-	-	I	-
Tanoak			R	S	I	R	R	I	-	I-S	I
Thimbleberry			S	I	I	I	I	S	S	I	I
Willow spp.			S	I-S	R-S	R	-	-	-	I-S	-
<b>Herbs</b>											
Fern, bracken	I		I-S	I	R	I	S	S		R	-
Fern, sword	R		I	R	R	R	I-S	S		R	-
Grasses, annual	S		S	R	R	S	S	R		R	S
Grasses, perennial	S-R		S	R	R	S	S	R		R	S
Herbs, broadleaf	I	S**	S	S-I	S	S	S-R	S-R		I-S	S

R = resistant to highest rates. I = intermediate or variable; highest rates effective. S = sensitive; killed by medium or lower rates.  
 \*Glyphosate has intermediate activity if applied after full leaf expansion but before wax develops on leaves of evergreen species; it has marginal conifer selectivity in spring.  
 \*\*Clopyralid has activity on selected broadleaf weeds, such as Canada thistle and other thistles. See Washington, Oregon, and Idaho special local needs labels for Transline for more details.  
 \*\*\*Accord, Glyphomax, Roundup, several others. Note that some are only labeled for spot spray or site prep. Note that Roundup Ultra is NOT labeled for forestry applications and will damage conifers.

**For specific herbicide information, contact your local OSU Extension Office.**