

Giant hogweed injury by several herbicides. Timothy W. Miller and Cathy Lucero. (Washington State University, Mount Vernon, WA 98273 and Clallam County Noxious Weed Control, Port Angeles, WA 98362) Giant hogweed is a recently-introduced European weed that is currently known to infest portions of western Washington. This species is a Class A noxious weed in Washington. A trial was designed to determine the susceptibility of giant hogweed to several herbicides. The site was a creekside heavily infested with giant hogweed near Port Angeles, Washington. Individual plants were marked with wire flags and herbicides applied April 23, when the hogweed had 4 to 5 leaves and was actively growing, ranging from 1 to 3 feet in height. Rain had fallen most of the previous week, but the weeds were dry at the time of application (Table 1). Herbicides were applied using a CO<sub>2</sub>-pressurized backpack sprayer spraying the equivalent of 41 gpa at 37 psi. Giant hogweed injury (0 = no injury and the plant flowered; 100 = dead plant) was visually estimated July 1. The experimental design was a randomized complete block with four replicates. Means were separated using Fisher's Protected LSD.

Based on these results, glyphosate and imazapic were the herbicides of choice, both causing greater than 90% injury of treated giant hogweed by July 1 (Table 2). Triclopyr + 2,4-D was slightly less effective, but still gave good control (80% injury).

Table 1. Application data.

11:00 a.m., April 23, 1999  
 Broadcast, postemergence  
 Weeds 1 to 3 ft. tall  
 0% cloud cover  
 Winds 1 to 4 mph from NE  
 Air temp. = 25 C  
 Soil temp (6") = 4 C  
 Relative humidity = 34%  
No dew; soil surface moist

Table 2. Control of giant hogweed by various herbicides.

Treatment <sup>a</sup>	Trade name	Rate <sup>b</sup> lbs/A	Weed Control %
2,4-D amine	Weedar	2.0	8
2,4-D amine	Weedar	3.0	45
dicamba	Banvel	1.0	66
glyphosate	Roundup	1.5	100
dicamba + 2,4-D + MCPP	Weed B Gon	4 pt	34
imazapic + mso	Plateau + SunIt II	0.188 + 0.6% v/v	97
dicamba + 2,4-D	Weedmaster	0.5 + 1.44	50
clopyralid + 2,4-D	Curtail	0.19 + 1.0	48
triclopyr + 2,4-D	Crossbow	0.75 + 2.67	80
clopyralid	Transline	0.38	37
untreated check	—	—	30
<u>LSD<sub>0.05</sub></u>	—	—	25

<sup>a</sup>mso = methylated seed oil.

<sup>b</sup>Weed B Gon is listed in pints of formulated product per acre.