

APPENDIX 11

SUSCEPTIBILITY OF SOME COLORADO NOXIOUS WEEDS TO CONTROL BY 2,4-D, DICAMBA, PICLORAM, AND GLYPHOSATE HERBICIDES.

Excerpted from: *Northwest Area Noxious Weed Control Program. Environmental Impact Statement.* Bureau of Land Management, Oregon State Office. December 1985.

The table below lists the effects of phenoxy and some other systemic herbicides when applied as sprays on the foliage of the plant species. These comparisons are based on an application rate of 1 pound active equivalent per acre for 2,4-D, dicamba, picloram and 1.5 pounds active ingredient per acre for glyphosate.

The control ratings for the herbicides are as follows:

Excellent (E). Over 95 percent of the plant species population is killed by a single treatment. Plant is highly susceptible to the chemical.

Good (G). One treatment per year maintains 85 to 94 percent suppression of top growth, or more than 95 percent of the plant species population is killed by two or three treatments. Plant is susceptible to the chemical.

Fair (F). From 60 to 85 percent of the plant species population is killed by a single treatment, or two or three treatments per year maintain 85 to 94 percent suppression of top growth. Plant is moderately susceptible to the chemical.

Poor (P). From 10 to 59 percent of the plant species population is killed by one treatment, or two or three treatments per year maintain 60-84 percent suppression of top growth. Plant is moderately resistant to the chemical.

None (N). Little or no effect is gained from treatments. Plant is resistant to the chemical.

Insufficient Data (I). Insufficient data exist to determine effectiveness.

The types of plants are shown as follows:

A = Annual

B = Biennial

PN = Perennial

Common Name	Scientific Name	Type of Plant	2,4-D	Dicamba	Picloram	Glyphosate
African rue	<i>Peganum harmala</i>	PN	I	I	I	I
Black knapweed	<i>Centaurea nigra</i>	PN	F	F	E	G
Black nightshade	<i>Solanum nigrum</i>	A	F	G	E	E
Blue mustard	<i>Chorispora tenella</i>	A	F	G	E	E
Bouncingbet	<i>Saponaria officinalis</i>	PN	P	G	F	F
Bull thistle	<i>Cirsium vulgare</i>	B	E	E	E	E
Canada thistle	<i>Cirsium arvense</i>	PN	F	E	E	G
Chicory	<i>Cichorium intybus</i>	PN	G	E	E	G
Common burdock	<i>Arctium minus</i>	B	E	E	E	G
Common groundsel	<i>Senecio vulgaris</i>	A	P	E	I	E
Common mullein	<i>Verbascum thapsus</i>	B	P	G	E	G
Common St. Johnswort	<i>Hypericum perforatum</i>	PN	P	I	I	I
Common tansy	<i>Tanacetum vulgare</i>	PN	F	G	E	E
Dalmatian toadflax	<i>Linaria dalmatica</i>	PN	F	G	G	G
Diffuse knapweed	<i>Centaurea diffusa</i>	A,B,PN	E	E	E	I
Downy brome	<i>Bromus tectorum</i>	A	N	N	N	G
Dyer's woad	<i>Isatis tinctoria</i>	PN	G	E	G	G
Field bindweed	<i>Convolvulus arvensis</i>	PN	G	G	G	G
Flixweed	<i>Descurainia sophia</i>	A	E	I	G	I
Halogeton	<i>Halogeton glomeratus</i>	A	F	I	I	I
Hoary cress	<i>Cardaria draba</i>	PN	F	G	P	G
Houndstongue	<i>Cynoglossum officinale</i>	B	F	G	E	I
Johnsongrass	<i>Sorghum halepense</i>	PN	N	N	N	E
Jointed goatgrass	<i>Aegilops cylindrica</i>	A	N	P	N	E
Kochia	<i>Kochia scoparia</i>	A	E	G	F	E
Leafy spurge	<i>Euphorbia esula</i>	PN	P	F	G	F
Longspine sandbur	<i>Cenchrus longispinus</i>	A	N	N	N	E
Musk thistle	<i>Carduus nutans</i>	B	E	G	E	E
Oxeye daisy	<i>Chrysanthemum leucanthemum</i>	PN	F	E	E	G
Perennial pepperweed	<i>Lepidium latifolium</i>	PN	F	G	F	I
Plumeless thistle	<i>Carduus acanthoides</i>	B	G	G	E	E
Poison hemlock	<i>Conium maculatum</i>	B	G	E	E	G
Puncturevine	<i>Tribulus terrestris</i>	A	G	E	E	E
Quackgrass	<i>Elytrigia repens</i>	PN	N	N	N	G
Redstem filaree	<i>Erodium cicutarium</i>	A	G	I	I	I
Rush skeletonweed	<i>Chondrilla juncea</i>	PN	F	G	E	I
Russian knapweed	<i>Centaurea repens</i>	PN	P	G	G	G
Russian thistle	<i>Salsola iberica</i>	A	G	E	E	G
Corn chamomile	<i>Anthemis arvensis</i>	B	F	G	E	E

Common Name	Scientific Name	Type of Plant	2,4-D	Dicamba	Picloram	Glyphosate
Spotted knapweed	<i>Centaurea maculosa</i>	B,PN	F	E	E	E
Squarrose knapweed	<i>Centaurea virgata</i>	PN	F	I	I	I
Sulfur cinquefoil	<i>Potentilla recta</i>	PN	G	E	E	E
Velvetleaf	<i>Abutilon theophrasti</i>	A	G	F	E	E
Yellow nutsedge	<i>Cyperus esculentus</i>	PN	F	N	F	F
Yellow starthistle	<i>Centaurea solstitialis</i>	A	F	G	E	E
Yellow toadflax	<i>Linaria vulgaris</i>	PN	N	F	G	G

