

Herbicide Effectiveness on Weeds in Tree Fruits

WEED FAMILY ¹	Soil-applied Herbicides											Postemergent Herbicides				
	simazine	diuron	terbacil (Sinbar)	norflurazon (Sollicam)	dichlobenil (Casoron)	oryzalin (Surflan)	napropamide (Devrinol)	pronamide (Kerb)	flumioxazin (Chateau)	indaziflam (Alion)	paraquat (Gramoxone)	oxyfluorfen (Goal)	glyphosate (Roundup)	2,4-D (weed-Rhap)	fluzifop (Fusilade)	sethoxydim (Poast)
AMARANTH OR PIGWEED																
Amaranth, Powell <i>Amaranthus powellii</i>	G	G	F		G	G	G		G	G	G		G	G	P	P
Pigweed, redroot <i>Amaranthus retroflexus</i>	G	G	F	F	G	G	G	P	G	G	G	G	G	G	P	P
Pigweed, tumble <i>Amaranthus graecizans</i>	G	G	F		G		G		G	G	G		G	G	P	P
BUCKWHEAT																
Buckwheat, wild <i>Polygonum convolvulus</i>	G	G	G		G				P	P	G	G	G	G	P	P
Dock, broadleaf (P) <i>Rumex obtusifolius</i>		F*	G*		G	P			P	P	+		G	G	P	P
Dock, curly (P) <i>Rumex crispus</i>					G			F	P	P		F			P	P
Knotweed, prostrate <i>Polygonum aviculare</i>	G	F	G	G	G	G	F	F	F	G	+	F	G	F	P	P
Ladysthumb <i>Polygonum persicaria</i>	F	F	G	F	G	F	P		F	G	G	F	G	G	P	P
Sorrel, red (P) <i>Rumex acetosella</i>		G*	G*		G			F	P	G	+	G*	G		P	P
CALTROP																
(Puncturevine) <i>Tribulus terrestris</i>	P	P	F	G	G	F	F		F	F	G		G	G	P	P
CARROT																
Carrot, wild (B) <i>Daucus carota</i>	G	G	G	G	G			P	F	G	G	P	G	G	P	P
COMPOSITE																
Chicory (P) <i>Cichorium intybus</i>					G			P		G					P	P
Cocklebur, broadleaf <i>Xanthium strumarium</i>					F			P				G*	G	G	P	P
Cudweed, low <i>Gnaphalium uliginosum</i>					G			P					G	G	P	P

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Dandelion, common (P) <i>Taraxacum officinale</i>	*	P	F	*	G	P	*	P		P	+	G*	G	G	P	P
Dandelion, false (Spotted catsear) (P) <i>Hypochaeris radicata</i>	*	P	P	*	G	P	P	P		P	+	G*	G	F	P	P
Devil's beggarsticks <i>Bidens frondosa</i>		G	F		G			P							P	P
Goldenrod, western (P) <i>Solidago occidentalis</i>		P	P			P	P	P			P		G		P	P
Groundsel, common <i>Senecio vulgaris</i>	F	F			G	P	G	P	G	G	G	G	G	G	P	P
Hawkbit, hairy (P) <i>Leontodon nudicaulis</i>	*	*	*	*	G	*	*	P			+		G	P	P	P
Hawksbeard, bristly <i>Crepis setosa</i>			G		G		P	G		G	G	G	G	P	P	P
Horseweed (P) <i>Conyza canadensis</i>		F	P		F	P	F	P	G	G	+	P	G		P	P
Knapweed, diffuse <i>Centaurea diffusa</i>					G			P					G	G	P	P
Mayweed or dog fennel <i>Anthemis cotula</i>		G	G		G	P		P	G	G	*	F	G	F	P	P
Pineappleweed <i>Matricaria matricarioide</i>		G	G		G	P	G	P	G	G	*	F	G	F	P	P
Prickly lettuce <i>Lactuca serriola</i>		G	G		G	P	G	P	G	G	G	G	G	G	P	P
Ragweed, common <i>Ambrosia artemisiifolia</i>					G			P	G			*	G	G	P	P
Ragwort, tansy (B) <i>Senecio jacobaea</i>		P	P		G	P	P	P	P	P	*		G	G	P	P
Salsify, western (B) <i>Tragopogon dubius</i>		P	P			P	P	P			F	P		G	P	P
Sowthistle, annual <i>Sonchus oleraceus</i>		F	G		G	P	G	P	G	G		G	G	G	P	P
Sowthistle, spiny <i>Sonchus asper</i>		F	G		G	P	G	P		G			G	G	P	P
Thistle, bull (B) <i>Cirsium vulgare</i>		G	F		G			P		G	P	F*	G	G	P	P
Thistle, Canada (P) <i>Cirsium arvense</i>		P	P		G	P	P	P	P	P	+		G	F	P	P
EVENING PRIMROSE																
Fireweed (P) <i>Epilobium angustifolium</i>		G	G		F		P		F	G	G	G	G	F	P	P
FIGWORT																
Mullein, common (B) <i>Verbascum thapsus</i>		P			G			P			F		F	F	P	P
Speedwell, birdseye <i>Veronica persica</i>		P	F		G			P		G	G		G	F	P	P

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Speedwell, creeping <i>Veronica filiformis</i>					F			P				G	F	P	P	
Speedwell, ivyleaf <i>Veronica hederaefolia</i>		P	F		F			P		G	G	G	F	P	P	
Toadflax, yellow (P) <i>Linaria vulgaris</i>		P	P		P		P	p			p		p	p	p	
GERANIUM																
Filaree, redstem <i>Erodium cicutarium</i>	P	F	G	G	G	P	G	P	F	G	F	G	G	G	P	P
Geranium, cutleaf <i>Geranium dissectum</i>		G	G		G		G	P	F	G	G		G	F	P	P
Geranium, dovefoot <i>Geranium molle</i>		G	G		G		G	P	F	G	G	F	G	P	P	P
GOOSEFOOT																
Kochia <i>Kochia scoparia</i>		F	G		G	P	P	F		G	F	G	G	F	P	P
Lambsquarters, common <i>Chenopodium album</i>	G	G	G	G	G	G	G	F	G	G	F	F	G	G	P	P
Thistle, Russian <i>Salsola kali</i>		P	F	G	G	F	P	P	G	G	F	G	G	F	P	P
GRASS, ANNUAL																
Barnyardgrass <i>Echinochloa crustogalli</i>	F	G	F	G	G	G	F-G	P	P	G	G	P	G	P	G	G
Bluegrass, annual <i>Poa annua</i>	G	G	G	G	G	G	G	G	F	G	G	F*	G	P	P	P
Brome, downy <i>Bromus tectorum</i>	G	P	G	G	G	G	F-G	G		G	G	F#	G	P	G	G
Brome, rippgut <i>Bromus rigidus</i>	G	G	G		G	G	G	G		G	G	F#	G	P		
Bromes, annual <i>Bromus</i> spp.				G		G	G	G		G	G	F#	G	P	G	G
Crabgrass <i>Digitaria</i> spp.	P-F	F-G	G	F	G	G		P	P	G	G		G	P	G	G
Foxtail, green <i>Setaria viridis</i>	P-F	F	F	F	G	G	F	F		G	G	F#	G	P	G	G
Foxtail, yellow <i>Setaria glauca</i>		F	F		G	G	G	F		G	G	F#	G	P	G	G
Johnsongrass seedlings <i>Sorghum halepense</i>					G				P	P	G		G	P	G	G
Oat, wild <i>Avena fatua</i>	F	P	G	G	F	P	G	G	P	G	G	G#	G	P	G	G
Ryegrass, annual or Italian <i>Lolium multiflorum</i>	G	G	G		G	G	G	G	P	G	G	G#	G	P	F-G	G
Sandbur, longspine <i>Cenchrus longispinus</i>	F	F	F	F		G	G				F		G	P		
Velvetgrass <i>Holcus lanatus</i>		P	G		G		P	G		G	F		G	P	F-G	G

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Witchgrass <i>Panicum capillare</i>		P	G		G	G	G	F	F	G	G		G	P	G	G
GRASS, PERENNIAL																
Bentgrass <i>Agrostis tenuis</i>	*	*	F*	*	G	*	*	G		G	+		G	P	G	G
Bermudagrass <i>Cynodon dactylon</i>		P	P			P	P	P		G	P	G	G	P	G	F-G
Fescue, red creeping <i>Festuca rubra</i>					F			G		G			G	P	P	P
Quackgrass <i>Elytrigia repens</i>	P	P	F	P	G	P	P	G		P	F	P	G	P	F	P
MADDER																
Bedstraw, catchweed <i>Galium aparine</i>		P	P		G	F		P			P	G*		P	P	P
Bedstraw, corn <i>Galium tricornis</i>				G										P	P	P
MALLOW																
Mallow, common <i>Malva neglecta</i>	F	P	G	F	F	P	G	P		F		P	F	F	P	P
MINT																
Deadnettle, red <i>Lamium purpureum</i>	G	G	F	G	G		P	F			G	G	G	F	P	P
Henbit <i>Lamium amplexicaule</i>	G	G	F	G	G	F	P	F			G	G	G	F	P	P
MORNINGGLORY																
Bindweed, field (P) <i>Convolvulus arvensis</i>	P	P	P		P-F	P	P	P		P	+	+	F-G	F	P	P
MUSTARD																
Bittercress, little <i>Cardamine oligosperma</i>		G	G		G	P	G	P	G	G	G	G	G	G	P	P
Cress, hoary (P) <i>Cardaria draba</i>	*	*			G									F	P	P
Flixweed <i>Descurainia sophia</i>		G	G			P	F	F#				F		G	P	P
Mustard, hedge <i>Sisymbrium officinale</i>	*	*	G		F-G	P		F#	G	G		F	G	G	P	P
Mustard, wild <i>Brassica kaber</i>	G	G	G	G	G	G	G	F#	G	G	G	F	G	G	P	P
Shepherdspurse <i>Capsella bursa-pastoris</i>	G	G	G	G	G	P	P	F#	G	G	G	P	G	G	P	P
NIGHTSHADE																
Nightshade, black <i>Solanum nigrum</i>	G	G	G	G	G	P	P	F#	E	G	G	G	G	G	P	P
Nightshade, cutleaf <i>Solanum triflorum</i>		G	G		G			F#	E	G	G	G	G	G	P	P
Nightshade, hairy <i>Solanum sarrachoides</i>	G	G	G	G	G	P	P	F#	E	G	G	G	G	G	P	P

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PINK																
Chickweed, common <i>Stellaria media</i>	G	G	G		G	G	G	G	G	G	G	P	G	G	P	P
Chickweed, mouseear <i>Cerastium vulgatum</i>	G	G	G		G	G	G	G	G	G	G	P	G	F	P	P
Spurry, corn <i>Spergula arvensis</i>	G	G	G		G	G	G		G	G	G	G	G	P	P	P
PLANTAGINACEAE																
Plantain, broadleaf (P) <i>Plantago major</i>	G	P	G		G			P			G	F*	G	G	P	P
Plantain, buckhorn (P) <i>Plantago lanceolata</i>	G	P	G		G			P			G	F*	G	G	P	P
PURSLANE																
Minerslettuce <i>Montia perfoliata</i>	G	G	G	G	G		P				G	G	G	G	P	P
Purslane, common <i>Portulaca oleracea</i>	G	G	G	F	G	G	G	F	E	G	G	G	G	F	P	P
ROSE																
Blackberry, evergreen (P) <i>Rubus laciniatus</i>	P	P	F		P	P	P	P	P	P	+	P	G	F	P	P
Blackberry, Himalaya (P) <i>Rubus procerus</i>	P	P	F		P	P	P	P	P	P	+	P	G	F	P	P
Blackberry, trailing (P) <i>Rubus vitifolius</i>	P	P	F		P	P	P	P	P	P	+	P	G	F	P	P
SEDGE																
Nutsedge, yellow (P) <i>Cyperus esculentus</i>	P	P	P	F	G	P	P	P	P	P	F	P	F	P-F	P	P
SPURGE																
Spurge, leafy (P) <i>Euphorbia esula</i>					G		P	P	P		P			P-F	P	P
Spurge, prostrate <i>Euphorbia humistrata</i>	P	P	G	F	G	F	P		G	P	G		G	F	P	P
St. Johnswort (P) <i>Hypericum perforatum</i>		P	P		G		P		P	P	+		G	F	P	P
SUMAC																
Poisonoak, Pacific (P) <i>Toxicodendron diversilobum</i>		P	P		G		P			P	+		G	F	P	P
TEASEL																
Teasel <i>Dipsacus sylvestris</i>					G					P	G		G	G	P	P

G = good (80-94%) F = fair (60-79%) P = poor (less than 50%)(*) = seedling control only

(+) = controls aboveground vegetation only (#) = preemergence only

¹Weeds not identified as biennials (B) or perennials (P) are considered annuals.

Sucker Chemical Pruning Herbicide Efficacy as Affected by Sucker Height

Active ingredient [WSSA #] (trade name)	Rate pounds ai/A (product/A)	Efficacy of Control		
		3"	6"	9"
2,4-D [4] (generic)	0.71 to 0.95 lb ai (see label)	E	E	G
carfentrazone [14] (Aim EC)	0.03 lb ai (2 fl oz)	E	G	F
glufosinate [10] (generic)	1.0 lb ai (56 fl oz)	E	E	G
paraquat [22] (generic)	0.625 to 1 lb ai (2.5 to 5 pints)	E	E	F-G
pelargonic acid (Scythe)	5 to 7% v/v	NR	NR	NR
pyraflufen [14] (Venue)	0.002 to 0.005 lb ai (2 to 4 fl oz)	-	NR	NR
saflufenacil [14] (Treevix)	0.04 lb ai (1 oz)	E	G	F

WSSA # to Weed Science Society of America herbicide site of action group number.

Abbreviations: E – excellent (>90% control); G – good (80-90% control); F – fair (70-80%), NR – not recommended