

Table 1. Annual broadleaf weed control by herbicides in almonds in CA

	Preemergent herbicides														Postemergent herbicides										
	EPTC (Eptam 7-E)	flazasulfuron (Mission)	flumioxazin (Chateau SW)	indaziflam (Alion)	isoxaben (Trellis SC)	mesotrione (Broadworks)	napropamide (Devrinol 2-XT)	norflurazon (Solicam)	oryzalin (Surflan A.S.)	oxyfluorfen (Goal 2XL)	pendimethalin (Prowl H ₂ O)	penoxsulam+oxyfluorfen (Pindar GT)	rimsulfuron (Matrix FNV)	simazine (Princep)	trifluralin (Treflan 4)	carfentrazone (Shark EW)	clethodim (Select Max)	fluzafop-p-butyl (Fusilade DX)	glufosinate (Rely 280)	glyphosate (Roundup Powermax)	paraquat (Gramoxone SL)	pyraflufen-ethyl (Venue)	saftufenacil (Treevix)	sehtoxydim (Poast)	2,4-D amine (Dri-Clean)
Cheeseweed	N	C	C	C	C	C	C	P	P	C	P	C	C	P	N	C	N	N	C	P	P	P	C	N	P
Chickweed	C	C	C	C	C	C	C	P	C	P	C	C	C	C	C	C	N	N	C	C	C	C	-	N	N
Clover	N	C	-	P	P	-	P	N	N	P	N	C	-	C	N	P	N	N	P	P	P	P	-	N	N
Cocklebur	N	-	-	-	-	C	N	C	N	P	N	-	P	C	N	C	N	N	P	C	C	C	C	N	C
Cudweed	P	-	-	C	C	-	C	C	N	N	N	C	-	C	N	P	N	N	P	C	N	C	-	N	P
Fiddleneck	C	-	-	C	C	C	C	P	C	C	C	C	C	C	C	C	N	N	P	C	P	P	-	N	P
Filaree	P	C	C	C	C	C	C	P	P	C	N	C	C	C	P	C	N	N	C	P	P	P	C	N	C
Goosefoot	C	C	C	C	C	C	C	P	C	C	C	C	P	C	C	C	N	N	P	C	C	C	C	N	C
Groundcherry	C	-	C	-	C	C	N	C	N	C	N	P	C	C	P	C	N	N	C	C	C	C	C	N	C
Groundsel	C	C	C	C	C	C	C	P	P	C	N	C	C	P	N	C	N	N	P	C	C	C	C	N	P
Hairy fleabane	C	C	P	C	C	C	N	P	N	P	N	C	C	P	N	P	N	N	C	P	P	P	C	N	C
Henbit	C	C	C	P	C	C	P	P	C	C	C	C	C	C	P	C	N	N	C	C	C	C	-	N	P
Horseweed	C	P	C	C	C	C	N	P	N	P	N	C	C	P	N	P	N	N	C	P	P	P	C	N	C
Knotweed	P	-	-	P	C	N	C	P	C	P	C	P	C	C	C	P	N	N	P	P	P	C	-	N	P
Lambsquarters	C	C	C	C	C	C	C	P	C	C	C	C	C	C	C	C	N	N	P	C	C	C	C	N	C
London rocket	C	C	C	C	C	C	P	P	P	C	P	C	C	C	N	C	N	N	C	C	C	C	-	N	C
Morningglory	P	-	C	P	C	C	-	C	P	C	N	-	N	C	C	C	N	N	C	C	P	C	C	N	P
Mullein, turkey	N	-	-	-	C	-	-	P	N	P	N	-	-	N	P	P	N	N	C	P	P	P	-	N	P
Mustard	N	C	C	C	C	C	P	P	N	C	P	C	C	C	N	C	N	N	C	C	C	C	C	N	P
Nettle, burning	C	C	C	C	C	C	P	C	P	C	N	C	C	C	N	C	N	N	C	N	P	C	C	N	P
Nightshade	P	C	C	C	C	C	N	C	N	C	N	C	P	C	N	C	N	N	C	C	C	C	C	N	C
Pigweed	C	C	C	C	C	C	C	P	C	C	C	C	C	C	C	C	N	N	C	C	C	C	C	N	P
Prickly lettuce	C	C	P	P	C	C	C	P	N	C	N	C	P	C	N	C	N	N	C	C	P	C	C	N	C
Primrose, evening	-	C	-	P	C	-	N	N	P	P	P	C	-	C	P	P	N	N	C	C	C	C	-	N	-
Puncturevine	N	C	C	-	C	C	P	C	C	P	P	P	C	P	P	P	N	N	P	C	C	P	C	N	P
Purslane	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	N	N	N	C	C	C	C	C	N	P
Russian thistle	P	-	C	C	C	-	C	C	P	P	P	C	P	C	P	P	N	N	C	C	C	C	C	N	P
Shepherd's-purse	P	C	C	C	C	C	N	P	N	C	P	C	C	C	N	P	N	N	C	C	P	C	C	N	C
Sowthistle	C	C	P	C	C	C	C	P	P	C	N	C	P	C	N	N	N	N	C	C	P	C	C	N	P
Spotted spurge	N	C	C	C	C	N	C	C	P	P	P	P	C	P	P	P	N	N	C	C	C	C	C	N	P
Wild radish	N	C	C	-	C	-	P	P	P	C	N	C	C	C	N	P	N	N	C	C	C	C	C	N	C
Willowherb	-	C	C	C	P	C	N	P	P	C	-	C	-	N	-	P	N	N	C	P	N	P	C	N	P

C = control, P = partial control, N = no control, - = no information

Note: some weeds listed as controlled may not be controlled if they are resistant to that particular herbicide.

This is not an endorsement for any trade names listed, nor does the omission of specific trade names reflect the view of the author. Refer to your local chemical dealer or manufacturer for specific herbicide products available. Numerous factors influence the performance of herbicides, so refer to the manufacturer's labels for specific treatment recommendations.

Kurt Hembree, UCCE, Fresno County. December 2016. <http://cefresno.ucanr.edu>

Table 2. Annual grass and perennial weed control by herbicides in almonds in CA

	Preemergent herbicides														Postemergent herbicides										
	EPTC (Eptam 7-E)	flazasulfuron (Mission)	flumioxazin (Chateau SW)	indaziflam (Alion)	isoxaben (Trellis SC)	mesotrione (Broadworks)	napropamide (Devrinol 2-XT)	norflurazon (Solicam)	oryzalin (Surflan A.S.)	oxyfluorfen (Goal 2XL)	pendimethalin (Prowl H ₂ O)	penoxsulam+oxyfluorfen (Pindar GT)	rimsulfuron (Matrix FNV)	simazine (Princep)	trifluralin (Treflan 4)	carfentrazone (Shark EW)	clethodim (Select Max)	fluzafop-p-butyl (Fusilade DX)	glufosinate (Rely 280)	glyphosate (Roundup Powermax)	paraquat (Gramoxone SL)	pyraflufen-ethyl (Venue)	safinacil (Treevix)	sehtoxydim (Poast)	2,4-D amine (Dri-Clean)
Annual grasses																									
Annual bluegrass	C	C	C	C	N	N	C	C	C	P	C	C	C	C	N	C	N	C	C	C	P	N	N	N	N
Barnyardgrass	C	C	C	C	N	N	C	P	C	P	C	P	C	P	C	N	C	C	C	C	P	N	N	C	N
Bromegrass	C	P	P	C	N	N	C	C	C	N	C	-	C	-	C	N	P	P	C	C	P	N	N	P	N
Canarygrass	C	P	P	-	N	P	C	C	C	P	C	-	-	P	C	N	C	C	C	C	P	N	N	C	N
Crabgrass, large	C	P	C	C	N	N	C	P	C	N	C	P	C	N	C	N	C	C	C	C	C	N	N	C	N
Fescue	C	C	P	C	N	N	P	C	C	N	C	-	C	P	C	N	P	P	P	C	P	N	N	P	N
Foxtail	C	C	C	C	N	N	C	P	C	N	C	-	C	C	C	N	C	C	P	C	C	N	N	C	N
Junglerice	C	C	C	C	N	N	C	P	C	P	C	P	C	P	C	N	C	C	P	C	P	N	N	C	N
Lovegrass	C	-	C	C	N	N	C	P	C	P	C	-	P	P	C	N	C	C	C	C	P	N	N	C	N
Ryegrass, Italian	C	C	P	C	N	N	C	C	C	N	C	P	C	P	C	N	C	C	C	C	P	N	N	C	N
Sandbur	C	C	C	C	N	N	C	C	P	N	C	-	-	C	C	N	C	C	C	C	P	N	N	C	N
Sprangletop	C	-	P	C	N	N	C	P	C	N	C	-	-	N	C	N	C	C	P	C	N	N	N	C	N
Wild barley	C	C	P	C	N	N	C	C	C	P	C	-	P	P	C	N	C	C	C	C	P	N	N	C	N
Wild oat	C	-	C	C	N	N	C	C	C	P	P	C	P	C	P	N	C	C	C	C	P	N	N	C	N
Witchgrass	C	-	P	-	N	N	C	P	C	P	C	C	-	P	C	N	C	C	P	C	P	N	N	C	N
Perennials (seed)																									
Bermudagrass	C	P	N	-	N	N	C	C	C	N	C	N	N	P	C	N	C	C	C	C	P	N	N	C	N
Dallisgrass	C	P	-	-	N	N	C	C	C	N	C	N	N	C	C	N	C	C	C	C	N	N	N	C	N
Johnsongrass	C	P	C	-	N	N	C	C	C	N	C	N	P	C	C	N	C	C	C	C	C	N	N	C	N
Field bindweed	N	-	-	-	C	-	N	P	P	N	P	P	P	P	P	C	N	N	C	C	P	P	C	N	P
Perennials (est.)																									
Bermudagrass	N	N	N	N	N	N	N	P	N	N	N	N	N	N	N	N	P	P	P	P	N	N	N	P	N
Dallisgrass	N	N	N	N	N	N	N	P	N	N	N	N	N	N	N	N	P	P	P	P	N	N	N	P	N
Johnsongrass	N	N	N	N	N	N	N	P	N	N	N	N	N	N	P	N	P	P	P	P	N	N	N	P	N
Field bindweed	N	N	N	N	P	N	N	N	N	N	N	N	P	N	P	P	N	N	P	P	N	N	N	N	N
Nutsedge, purple	P	P	N	N	N	N	N	P	N	N	N	N	P	N	N	N	N	N	P	P	P	N	N	N	N
Nutsedge, yellow	P	P	N	N	N	N	N	P	N	N	N	N	P	N	N	N	N	N	P	P	P	N	N	N	N

C = control, P = partial control, N = no control, - = no information

Note: some weeds listed as controlled may not be controlled if they are resistant to that particular herbicide.

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Table 3. Herbicide use information in almonds in CA

Herbicide active ingredient	Herbicide mode-of-action	Herbicide product example	Herbicide activity	Herbicide product/acre ¹	Tree age ²	PHI days ³
clethodim	group 1	Select Max	foliar	9 - 16 fl oz	non-bearing	365
fluazifop-p-butyl	group 1	Fusilade DX	foliar	16 - 24 fl oz	non-bearing	365
sethoxydim	group 1	Poast	foliar	1 - 2.5 pt	after planting	15
flazasulfuron	group 2	Mission	soil and foliar	2.14 - 2.85 oz	≥36 months	130
penoxsulam + oxyflourfen	group 2 + 14	Pindar GT	soil and foliar	1.5 - 3 pt	≥15 months	60
rimsulfuron	group 2	Matrix FNV	soil and foliar	2 - 4 oz	≥12 months	14
oryzalin	group 3	Surflan A.S.	soil	2 - 6 qt	after planting	0
pendimethalin	group 3	Prowl H ₂ O	soil	2 – 6.3 qt	anytime	60
trifluralin	group 3	Treflan 4L	soil	1 - 4 pt	anytime	0
2,4-DB amine	group 4	Orchard Master	foliar	2 - 3 pt	after planting	60
simazine	group 5	Princep 4L	soil	1 - 2 qt	≥36 months	0
EPTC	group 8	Eptam 7-E	soil	2.5 - 3.5 pt	after planting	16
glyphosate	group 9	Roundup PowerMAX	foliar	11 – 105 fl oz	anytime	3
glufosinate	group 10	Rely 280	foliar	48 - 82 fl oz	after planting	14
norflurazon	group 12	Solicam DF	soil	1.25 - 5 lb	≥18 months	60
carfentrazone	group 14	Shark EW	foliar	1 - 2 fl oz	after planting	3
flumioxazin	group 14	Chateau SW	soil and foliar	6 - 12 oz	≥12 months	60
oxyflourfen	group 14	GoalTender	soil and foliar	0.25 - 3 pt	after planting	15 - 30
pyrafluferrn-ethyl	group 14	Venue	foliar	2 - 4 fl oz	after planting	0
saflufenacel	group 14	Treevix	foliar	1 oz	≥9 months	7
napropamide	group 15	Devrinol 2-XT	soil	2 gal	after planting	0
isoxaben	group 21	Trellis SC	soil	16 - 31 fl oz	after planting	60
paraquat	group 22	Gromoxone SL	foliar	1.25 - 4 pt	after planting	pre-shake
mesotrione	group 27	Broadworks	soil and foliar	6 fl oz	≥12 months	30
indaziflam	group 29	Alion	soil	5 - 6.5 fl oz	≥36 months	14

¹Herbicide rate based on a broadcast acre.

²Orchards having protective, non-porous tree wraps will help protect young trees from damage by direct herbicide contact.

³Follow the most restrictive PHI interval when combining products, unless otherwise specified on the label.

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