# 17 Weed Control Guidelines

# 17.1 Apples

Table 17.1.1. Weed control guidelines for APPLES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Year of Planting	2/2007/2002	(-12)/12-		1131 (1113)
Annual grasses and b	roadleaf weeds			
_	as settled and no cracks are preser	nt.		
11 5	oxyfluorfen	1.6-2.0		
	(Goal 2XL, Galigan 2E)		3.2-4 qt	24
Oxyfluorfen application	ns limited to dormant trees (before	e buds on trees begin	to grow).	
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-6.0		
	(Surflan AS)		3-6 qt	24
Additional measures m grasses and weeds.	ay be needed to control later emer	rging weeds. Add *p	araquat to help control establis	hed perennial
	*paraquat	0.63-1.0		
	(*Gramoxone Max)		1.7-2.7 pt	12
	ds as needed. Avoid contact of *p PRKER SAFETY CAUTIONS.	paraquat with foliage	or trunks of trees.	
	Chateau (flumioxazin)		6.0	12
Protect trees from sprag	y contact by non-porous wraps, gr	ow tubes, or waxed c	ontainers.	
	glyphosate	1.0-3.0		
	(Roundup, etc.)		1-3 qt	12
Apply to emerged week	ds as needed. Avoid contact of gly		branches, suckers or trunks of	f trees.
	carfentrazone-ethyl	0.03		
	(Aim EW,EC)		1.9 oz	12
Apply in tank mix with oliage.	paraquat or glyphosate for broad	leaf and grass control	, but avoid contact with green	bark and
Annual or perennial g				
	fluazifop	0.25-0.375		12
	(Fusilade DX)		1-1.5 pt	
	y when grass is 2-8 in tall. Repeat el). NONBEARING TREES ON	LY.	egrowth is 10 in tall. Add surfa	actant or crop
	sethoxydim	0.28-0.47		
	(Poast)		1.5-2.0 pt	12
	ing grass before tillering or seedh		with crop-oil concentrate (see l	abel).
	Orchard for at Least One Full Y	ear		
Materials as listed for y	ear of planting			
	•			

simazine

1.0-2.0

		Active		
		Ingredient	E 1/1B 1 //	DEL (L.)
Weeds Controlled	Materials	(lb)/A	Formulated Product/A	REI (hrs)
Annual grasses and bro	padleaf weeds (continued)			
	(Simazine 90DF)		1.1-2.2 lb	
	(Caliber 90)		1.125-2.25 lb	
	(Princep 4L)		1-2 qt	12
plus	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
	e weeds emerge. See soil-textur weeds. Addition of napropamid ol.			
or				
	simazine	1.0-2.0		
	(Simazine 90DF)		1.1-2.2 lb	
	(Caliber 90)		1.125-2.25 lb	
	(Princep 4L)		1-2 qt	12
plus	diuron	1.0-2.0	•	
-	Karmex 80DF, Diuron 80DF)		1.25-2.5 lb	12
proadleaf weed control.	d weeds. Additions of napropar		p.: 0 • • • • • • • • • • • • • • • • • •	
	diuron	1.0-2.0		
	(Karmex 80DF)		1.25-2.5 lb	12
plus	(Karmex 80DF) norflurazon	2.0-2.4	1.25-2.5 lb	12
•	norflurazon (Solicam 80DF)		2.5-3.0 lb	12
apply early spring before ontrol established weeds	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, porol.	re rate limitations for cendimethalin, or oryza	2.5-3.0 lb liuron and norflurazon. Add *p	12 araquat to hel
apply early spring before ontrol established weeds	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol. dichlobenil	re rate limitations for c	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a	12 araquat to hel annual grass
pply early spring before ontrol established weeds and broadleaf weed control.	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, porol.  dichlobenil (Casoron 4G)	re rate limitations for cendimethalin, or oryza	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a	12 araquat to hel
Apply early spring before ontrol established weeds and broadleaf weed contr	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol.  dichlobenil (Casoron 4G) en soil temp is below 45°. Conte	re rate limitations for cendimethalin, or oryza	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds.	12 araquat to hely annual grass 12 (E)
Apply early spring before control established weeds and broadleaf weed control broadleaf weed control broadleaf weed control broadleaf weeds when the control broadleaf weeds. May be tank mixed weeds. May be tank mixed.	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, porol.  dichlobenil (Casoron 4G)	re rate limitations for cendimethalin, or oryza  4.0-6.0  rols many annual and erbicide (glyphosate, p	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contr	12 raraquat to hele annual grass  12 (E)  12 rol of emerged
Apply early spring before ontrol established weeds and broadleaf weed control broadleaf weed control broadleaf weed control broadleaf weed control broadleaf weeds. May be tank mixed oils and/or where trees a	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol. dichlobenil (Casoron 4G) en soil temp is below 45°. Control Chateau (flumioxazin) mixed with labeled burndown heed with Surflan, simazine or divare less than three years old.	re rate limitations for cendimethalin, or oryza  4.0-6.0  rols many annual and erbicide (glyphosate, p	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contr	12 raraquat to help annual grass 12 (E) 12 rol of emerged
Apply early spring before control established weeds and broadleaf weed control established weeds and broadleaf weed control established weeds. March where the coils and/or where trees a	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol. dichlobenil (Casoron 4G) en soil temp is below 45°. Control Chateau (flumioxazin) mixed with labeled burndown heed with Surflan, simazine or divare less than three years old.	re rate limitations for cendimethalin, or oryza  4.0-6.0  rols many annual and erbicide (glyphosate, p	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contr	12 raraquat to help annual grass 12 (E) 12 rol of emerged
Apply early spring before control established weeds and broadleaf weed control broadleaf weed control when the control when the control was a specific property of the control	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol.  dichlobenil (Casoron 4G) en soil temp is below 45°. Control Chateau (flumioxazin) mixed with labeled burndown heed with Surflan, simazine or diume less than three years old.  rasses	4.0-6.0  rols many annual and erbicide (glyphosate, puron for additional resi	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contr	12 ranaquat to helpannual grass 12 (E) 12 rol of emerged
Apply early spring before ontrol established weeds and broadleaf weed control.  November to March where the chateau should be tank in weeds. May be tank mixed oils and/or where trees a catablished perennial grapply late fall before soil.	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol.  dichlobenil (Casoron 4G) en soil temp is below 45°. Control Chateau (flumioxazin) mixed with labeled burndown heed with Surflan, simazine or diumereless than three years old.  rasses  *pronamide (*Kerb 50WP) I freezes. Spring-planted trees researched.	4.0-6.0  rols many annual and erbicide (glyphosate, puron for additional residue)  2.0-4.0  must be established at	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contridual weed control. Use 6.0 oz.  4.0-8.0 lb	12 arraquat to help annual grass  12 (E)  12 rol of emerged rate on sandy
Apply early spring before control established weeds and broadleaf weed control. November to March where the chateau should be tank in weeds. May be tank mixed oils and/or where trees a castablished perennial graphy late fall before soil ther materials for broadless.	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol.  dichlobenil (Casoron 4G) en soil temp is below 45°. Contraction Chateau (flumioxazin) mixed with labeled burndown heed with Surflan, simazine or diumereless than three years old.  rasses  *pronamide (*Kerb 50WP)	4.0-6.0  rols many annual and erbicide (glyphosate, puron for additional residue)  2.0-4.0  must be established at	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contridual weed control. Use 6.0 oz.  4.0-8.0 lb	12 arraquat to helpannual grass  12 (E)  12 rol of emerged rate on sandy
Apply early spring before control established weeds and broadleaf weed control established weeds and broadleaf weed control established be tank in weeds. May be tank mixed oils and/or where trees a established perennial grapply late fall before soil	norflurazon (Solicam 80DF) e weeds emerge. See soil-textur s. Additions of napropamide, perol.  dichlobenil (Casoron 4G) en soil temp is below 45°. Control Chateau (flumioxazin) mixed with labeled burndown heed with Surflan, simazine or diumereless than three years old.  rasses  *pronamide (*Kerb 50WP) I freezes. Spring-planted trees researched.	4.0-6.0  rols many annual and erbicide (glyphosate, puron for additional residue)  2.0-4.0  must be established at	2.5-3.0 lb liuron and norflurazon. Add *p lin have improved late-season a  100-150 lb perennial grasses and weeds. 6.0-12.0 paraquat, 2,4-D, Rely) for contridual weed control. Use 6.0 oz.  4.0-8.0 lb	12 arraquat to hele annual grass  12 (E)  12 rol of emerged rate on sandy

Table 17.1.1. Weed control guidelines for APPLES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Trees Established in Oro	chard at Least Two Full Years	S		
Materials as listed for you	inger trees			
or				
Annual grasses and broa	adleaf weeds			
	diuron	0.8-1.6		
	(Karmex 80DF)		1.0-2.0 lb	12
plus	terbacil	0.8-1.6		
	(Sinbar 80WP)		1.0-2.0 lb	12
	simazine	1.6-2.0		
	(Simazine 90DF)		1.8-2.2 lb	
	(Caliber 90)		1.75-2.25 lb	
	(Princep 4L)		1.6-2.0 qt	12
plus	terbacil	0.8-1.6		
	(Sinbar 80WP)		1.0-2.0 lb	12

Apply early spring before weeds emerge. See label for soil-texture rate limitations for diuron, simazine, and terbacil. Add \*paraguat if emerged weeds are present. Second \*paraguat application may be needed.

*paraquat if emerged weeds are present. Second *paraquat application may be needed.						
Trees Established in Oro	Trees Established in Orchard at Least Three Full Years					
Materials as listed for you	inger trees					
or						
Annual grasses and broa	adleaf weeds					
	diuron	2.0-2.4				
	(Karmex 80DF)		2.5-3.0 lb	12		
plus	simazine	2.0-2.4				
	(Simazine 90DF)		2.25-2.66 lb			
	(Caliber 90)		2.25-2.66 lb			
	(Princep 4L)		2-2.4 qt	12		
	,			12		

Apply late fall or early spring before weeds emerge. See label for soil-texture rate limitations for simazine and terbacil. Add \*paraquat to help control established weeds.

or				
	simazine	2.0-2.4		
	(Simazine 90DF)		2.25-2.66 lb	
	(Caliber 90)		2.25-2.66 lb	
	(Princep 4L)		2-2.4 qt	12
plus	terbacil	2.0-2.4		
	(Sinbar 80WP)		2.5-3 lb	12

Apply late fall or early spring before weeds emerge. See label for soil-texture rate limitations for simazine and terbacil. Add \*paraguat to help control established weeds.

Established Orchards						
Established perennials, woody brush and vines						
glyphosate	2.0-4.0					
(Roundup/Roundup Weather	erMax, Touchdown)	2-3 qt	12/4			

Table 17.1.1. Weed control guidelines for APPLES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Established perennials	, woody brush and vines (contin	ued)		
Best timing varies with 3 yr old.	weed type. See label. Avoid conta	act of glyphosate wit	h foliage, branches or trunks of	of trees less than
or	*Weedar 64; *2,4-D Amine; *Unison	2-3 pt		48
plus	glyphosate	2.0-3.0		
	(Roundup, etc.)		2-3 qt	12

<sup>\*</sup>Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the supervision of a certified applicator. Refer to inside back cover for key to abbreviations and footnotes.

### **17.2 Pears**

Table 17.2.1. Weed control guidelines for PEARS.

		Active Ingredient		
Weeds Controlled	Materials	(lb)/A	Formulated Product/A	REI (hrs)
Year of Planting				
Annual grasses and b	roadleaf weeds			
Apply as soon as soil h	as settled and no cracks are presen	nt.		
	oxyfluorfen	1.2-2.0		
	(Goal 2XL)		2.4-4 qt	24
Oxyfluorfen application	ns limited to dormant trees (before	buds on trees begin	to grow).	
plus either	napropamide	4.0		
	(Devrinol DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4-8 qt	24
or	oryzalin	3.0-6.0		
	(Surflan AS)		3-6 qt	24
Add *paraquat to help	control established perennial grass	ses and weeds.		
	Chateau (flumioxazin)		6.0	12
Protect trees from sprag	y contact by non-porous wraps, gre	ow tubes, or waxed o	containers.	
	*paraquat	0.63-1.0		
	(*Gramaxone Max)		1.7-2.7 pt	12
Apply to emerged week WORKER SAFETY C	ds as needed. Avoid contact of *p AUTIONS.	araquat with foliage	or trunks of trees. SEE LABEI	L FOR
	glyphosate	1.0-3.0		
	(Roundup, etc.)		1-3 qt	12
Apply to emerged week	ds as needed. Avoid contact of gly	yphosate with foliage	e, branches, suckers or trunks or	f trees.
	carfentrazone-ethyl	0.03		
	(Aim EW, EC)		1.9 oz	12
Apply in tank mix with foliage.	paraquat or glyphosate for broadl	eaf and grass control	l, but avoid contact with green l	bark and

Table 17.2.1. Weed control guidelines for PEARS.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual or perennial gras		(=0)/		2132 (223)
	fluazifop	0.25-0.375		
	(Fusilade DX)		1-1.5 pt	12
Apply when grass is 2-8 in surfactant or crop-oil conc			tall. Apply as separate spray	. Add
	sethoxydim	0.28-0.47		
	(Poast)		1.5-2.0 pt	12

Apply to actively growing grass before tillering or seedhead formation. Use with crop-oil concentrate (see label).

#### Trees Established in Orchard at Least One Full Year

Materials as listed for year of planting

or

Annual grasses and broadleaf weeds

	simazine	1.0-2.0		
	(Simazine 90DF)		1.1-2.2 lb	12
	(Caliber 90)		1.125-2.25 lb	12
	(Princep 4L)		1-2 qt	12
plus	norflurazon	2.0-2.4		
	(Solicam 80D)		2.5-3.0 lb	12
A 1 1 1 1 C	1 0 11		· 1 0 411	de , ,

Apply early spring before weeds emerge. See soil-texture rate limitations for simazine and norflurazon. Add \*paraquat to help control established weeds. Additions of napropamide, pendimethalin, or oryzalin have improved late-season annual grass & broadleaf weed control.

or				
	simazine	1.0-2.0		
	(Simazine 90DF)		1.1-2.2 lb	12
	(Caliber 90)		1.125-2.25 lb	12
	(Princep 4L)		1-2 qt	12
plus	diuron	1.0-2.0		
	(Karmex 80DF)		1.25-2.5 lb	12

Apply early spring before weeds emerge. See labels for soil-texture rate limitations. Add \*paraquat to help control established weeds. Additions of napropamide, pendimethalin, or oryzalin have improved late-season annual grass & broadleaf control.

or				
	diuron	1.0-2.0		
	(Karmex 80DF)		1.25-2.5 lb	12
plus	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12

Apply early spring before weeds emerge. See labels for soil-texture rate limitations for diuron and norflurazon. Add \*paraquat to help control established weeds. Additions of napropamide, pendimethalin, or oryzalin have improved late-season annual grass & broadleaf control.

Table 17.2.1. Weed control guidelines for PEARS.

		Active Ingredient		
Weeds Controlled	Materials	(lb)/A	Formulated Product/A	REI (hrs)
Annual grasses and bro	oadleaf weeds (continued)			
or				
	dichlobenil	4.0-6.0		
	(Casoron 4G)		100-150 lb	12(E)
November to March whe	en soil temp is below 45°F. Co	ontrols many annual an	d perennial grasses and weeds.	
	Chateau (flumioxazin)		6.0-12.0	12
weeds. May be tank mix		iuron for additional res	paraquat, 2,4-D, Rely) for control idual weed control. Use 6.0 oz. ter bloom.	
Established perennial g	rasses			
	*pronamide	2.0-4.0		
	(*Kerb 50WP)		4.0-8.0 lb	24
Apply late fall before soi	l freezes. Use other materials	for broadleafs.		
Broadleaf weeds				
	2,4-D	1.4		
(*	Weedar 64; *Unison; *2,4-D	Amine)	3 pt	48
Trees Established in O	rchard at Least Three Full Y	ears		
Materials as listed for yo	unger trees			
or				
Annual grasses and bro	padleaf weeds			
	diuron	2.0-2.4		
	(Karmex 80DF)		2.5-3.0 lb	12
plus	simazine	2.0-2.4		
	(Simazine 90DF)		2.2-2.7 lb	12
	(Caliber 90)		2.2-2.7 lb	12
	(Princep 4L)		2-2.4 qt	12
Apply late fall or early sp paraquat to help control		ee labels for soil-texture	e rate limitations for simazine a	nd diuron. Add
Established Orchards				
Established perennials,	woody brush and vines			
	glyphosate	2.0-4.0		
	(Roundun Touchdown)		2-3 at	12

<b>Established Orchards</b>				
Established perennials,	woody brush and vines			
	glyphosate	2.0-4.0		
	(Roundup, Touchdown)		2-3 qt	12
Best timing varies with v 3 yr old.	veed type. See label. Avoid con	ntact of glyphosate with	foliage, branches or trunks of	f trees less than
*1	Weedar 64; *2,4-D Amine; *Ur	nison	2-3 pt	48
plus	glyphosate	2.0-3.0		
	(Roundup, etc.)	2-3 qt		

<sup>\*</sup>Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the supervision of a certified applicator. Refer to inside back cover for key to abbreviations and footnotes.

# 17.3 Cherries

Table 17.3.1. Weed control guidelines for CHERRIES.

		Active		
Weeds Controlled	Materials	Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Year of Planting				
Annual grasses and	broadleaf weeds			
Apply as soon as soil	has settled and no cracks are pre	esent.		
	oxyfluorfen	1.2-2.0		
	(Goal 2XL)			
Oxyfluorfen applicat	ions limited to dormant trees (app	oly before buds begin t	o grow).	
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-6.0	•	
	(Surflan AS)		3-6 qt	24
	Chateau (flumioxazin)		6.0	12
Protect trees from spr	ray contact by non-porous wraps,	grow tubes, or waxed	containers.	
•	*paraquat	0.63-1.0		
	(*Gramaxone Max)		1.7-2.7 pt	12
Apply *paraquat to e WORKER SAFETY	merged weeds as needed. Avoid	contact with foliage or	trunks of trees. SEE LA	ABEL FOR
	carfentrazone-ethyl	0.03		
	(Aim EW, EC)		1.9 oz	12
Apply in tank mix wi	ith paraquat for broadleaf and gra	ss control, but avoid c	ontact with green bark ar	nd foliage.
Annual and perenni	ial grasses			
	fluazifop	0.25-0.375		
	(Fusilade DX)		1-1.5 pt	12
Apply fluazifop when to label directions.	n grasses are 2-8 in tall. Repeat be	efore regrowth is 10 in	tall. Use surfactant or ca	rop oil according
	sethoxydim	0.28-0.47		
	(Poast)		1.5-2.0 pt	12
	actively growing grasses before rections. Apply as a separate spra	_	ormation. Use surfactant	or crop oil
Established perenni	al grasses			
	*pronamide	2.0-4.0		
	(*Kerb 50WP)		4-8 lb	24
	oil freeze-up (November). Spring fective on quackgrass.	g-planted trees must be	e established at least 6 m	o., fall-planted
-	ial grasses and broadleaf weeds	1		
-	dichlobenil	4.0-6.0		
	(Casoron 4G)		100-150 lb	12(E)
Apply Nov. to Mar. v	when soil temp is below 45°F. Do	not apply within 4 mo	after planting.	` '

Table 17.3.1. Weed control guidelines for CHERRIES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Trees Established in	Orchard at Least One Full Y	Year		
Materials as listed for	year of planting			
or				
Annual grasses and b	oroadleaf weeds			
	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC)		4.8 qt	24
or	oryzalin	3.0-4.0		
	(Surflan AS)		3-4 qt	24
or	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
plus	simazine	1.0-2.0		
	(Simazine 90DF)		1.1-2.2 lb	12
	(Caliber 90)		1.125-2.25 lb	12
	(Princep 4L)		1-2 qt	12
plus either	napropamide	4.0		
•	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-6.0		
	(Surflan AS)		3-4 qt	24
Apply late fall or early	spring before weeds emerge.	Will not control estab	olished perennial grasses of	weeds.
	Chateau (flumioxazin)		6.0-12.0	12
emerged weeds. May b	k mixed with labeled burndow be tank mixed with Surflan, sin for where trees are less than the	mazine or diuron for a		
Dandelion and other	broadleaf weeds in sod cove	r		
	2,4-D	1.4		
	(*2,4-D Amine)		3.0 pt	48
	(*Weedar 64; *Unison)		3.0 pt	48
Apply in the fall (best)	or early spring BEFORE TRI	EES OR DANDELION	NS BEGIN TO BLOOM.	Yearly

Apply in the fall (best) or early spring BEFORE TREES OR DANDELIONS BEGIN TO BLOOM. Yearly application is needed to control dandelions. Avoid contact with fruit, foliage, stems, or limbs of trees. (Unison not a vaporizer)

Newly Planted or Established Orchards				
Annual grasses and broadleaved weeds, perennial weeds, woody brush and vines				
	glyphosate	1.0-4.0		
	(Roundup, etc.)		1.0-4.0 qt	12
or	2 % solution for spot treatment		2 qt/25 gal	

Table 17.3.1. Weed control guidelines for CHERRIES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)	
Best timing varies with weed type; see label for specific directions. Avoid contact with foliage, branches, or trunks of trees less than 3 yr old. Does not provide residual weed control. See labels for tank-mix combinations.  Established perennial broadleaf weeds					
	*Clopyralid	0.12-0.24			
	(*Stinger)		1/3-2/3 pt	12	
	gence control of specific proble	em weeds such as Canada	thistle, clover, vetch, da	ndelion, in row	

and row middles. Not to exceed 2/3 pt/A/year.

### 17.4 Peaches

Table 17.4.1. Weed control guidelines for PEACHES.

Formulated Product/A	REI (hrs)
2.4-4 qt	24
to grow)	
8 lb	12
4.8 qt	24
3-6 qt	24
1.7-2.7 pt	
or trunks of trees. SEE LABE	L FOR
1.9 oz	12
ntact with green bark and folia	ge.
6.0 12	
ontainers.	
1-1.5 pt	12
	2.4-4 qt to grow)  8 lb  4.8 qt  3-6 qt  1.7-2.7 pt or trunks of trees. SEE LABE.  1.9 oz ntact with green bark and folia 6.0 12 containers.

Grasses 2-8 in tall. Repeat before regrowth is 10 in tall. Use surfactant or crop oil according to label directions.

<sup>\*</sup>Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the supervision of a certified applicator. Refer to inside back cover for key to abbreviations and footnotes.

Table 17.4.1. Weed control guidelines for PEACHES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual and perennial gr	casses (continued)			
	sethoxydim	0.28-0.47		
	(Poast)		1.5-2.0 pt	12
Apply to actively growing directions. Apply as a sep	, .	seedhead formation. Use	surfactant or crop oil according	g to label
Established perennial gr	rasses			

\*pronamide 2.0-4.0

(\*Kerb 50WP) 4-8 lb 24

Apply late fall before soil freeze-up (November). Spring-planted trees must be established at least 6 mo, fall-planted trees at least 1 yr. Effective on quackgrass.

Refer to label for registration status before applying any pesticide to nectarines.

### Trees Established in Orchard at Least One Full Year

Materials as listed for Year of Planting

or

Annual grasses and broadleaf weeds

TITITE BILLING	10001001 110000			
	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-4.0		
	(Surflan AS)		3-4 qt	24

Apply late fall or early spring before weed emergence. Will not control emerged weeds. Will not control established

perennial grasses or weeds. Add \*paraquat to help control emerged weeds.

1 8	1 1 1	8		
	simazine	1.0-2.0		
	(Simazine 90DF)		1.125-2.25 lb	12
	(Caliber 90)		1.125-2.25 lb	12
	(Princep 4L)		1-2 qt	12
plus	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC)		4.8 qt	24
Pendimethalin use limited	d to NONBEARING TREE	S ONLY.		
or	oryzalin	3.0-4.0		
	(Surflan AS)		3-4 qt	24

Apply late fall or early spring before weed emergence. Will not control established perennial grasses or weeds. Add \*paraquat to help control emerged weeds.

Chateau (flumioxazin) 6.0-12.0 12

Chateau should be tank mixed with labeled burndown herbicide (glyphosate, paraquat, 2,4-D, Rely) for control of emerged weeds. May be tank mixed with Surflan, simazine or diuron for additional residual weed control. Use 6.0 oz. rate on sandy soils and/or where trees are less than three years old.

#### Table 17.4.1. Weed control guidelines for PEACHES.

		Active Ingredient			
Weeds Controlled	Materials	(lb)/A	Formulated Product/A	REI (hrs)	
Chateau (flumioxazin) (d	continued)				
Dandelion and other broad	Dandelion and other broadleaf weeds in sod cover				
	2,4-D amine	1.4			
	(*2,4-D Amine)		3.0 pt	48	
	(*Weedar 64; *Unison)		3.0 pt	48	

Apply fall (best) or early spring BEFORE TREES OR DANDELIONS BEGIN TO BLOOM. AVOID CONTACT WITH FRUIT, FOLIAGE, STEMS, OR LOWER LIMBS OF TREES. Yearly application is needed to control dandelions.

#### Trees Established in Orchard at Least Two Full Years

Materials as listed for younger trees

or

Annual grasses and broadleaf weeds				
	diuron	0.8-1.6		
	(Karmex 80DF)		1.0-2.0 lb	12
plus	terbacil	0.8-1.6		
	(Sinbar 80WP)		1.0-2.0 lb	12

Apply late fall or early spring before weeds emerge. See label for soil-texture rate limitations for diuron and terbacil. Add \*paraquat if emerged weeds are present. May require a 2nd \*paraquat application for late season weeds.

#### **Newly Planted or Established Orchards**

#### Perennial weeds, woody brush and vines

glyphosate — (mix 1 gal in (Roundup, etc.) 33% solution 2 gal water) 12

(WIPER APPLICATION ONLY)

Best timing varies with weed type; see label for specific directions. AVOID ANY CONTACT WITH FOLIAGE, BRANCHES, OR TRUNKS OF TREES BECAUSE OF EXTREME SENSITIVITY TO THESE MATERIALS.

#### Established perennial broadleaf weeds

\*Clopyralid 0.12-0.24

(\*Stinger) 1/3-2/3 pt 12

Apply for post-emergence control of specific problem weeds such as Canada thistle, clover, vetch, dandelion, in row and row middles. Not to exceed 2/3 pt/A/year.

Refer to label for registration status before applying any pesticide to nectarines.

<sup>\*</sup>Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the supervision of a certified applicator. Refer to inside back cover for key to abbreviations and footnotes.

# 17.5 Apricots

Table 17.5.1. Weed control guidelines for APRICOTS.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Year of Planting				
Annual grasses and b	proadleaf weeds			
Apply as soon as soil h	nas settled and no cracks are preser	nt		
	oxyfluorfen	1.2-2.0		
	(Goal 2XL)		2.4-4 qt	24
Oxyfluorfen application	ons limited to dormant trees (before	e buds on trees begin	to grow).	
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H20)		4.8 qt	24
or	oryzalin	3.0-6.0		
	*Surflan AS)		3-6 qt	24
Add *paraquat to help control later emerging	control established perennial grass weeds.	ses and weeds. Additi	ional control measures may be	needed to
	*paraquat	0.63-1.0		
	(*Gramaxone Inteon)		1.7-2.7 pt	12
Apply to emerged wee WORKER SAFETY (	eds as needed. Avoid contact of *pacautions.	araquat with foliage (	OR trunks of trees. SEE LABE	L FOR
	carfentrazone-ethyl	0.03		
	(Aim EW, EC)		1.9 oz	12
Apply in tank mix with	n paraquat for broadleaf and grass	control, but avoid con	ntact with green bark and folia	ge.
	Chateau (flumioxazin)		6.0	12
Protect trees from spra	y contact by non-porous wraps, gr	ow tubes, or waxed c	containers.	
Annual and perennia	l grasses			
	fluazifop	0.25-0.375		
	(Fusilade DX)		1-1.5 pt	12
Grasses 2-8 in tall. Rep	peat before regrowth is 10 in tall. U	Jse surfactant OR cro	op oil according to label directi	ons.
	sethoxydim	0.28-0.47		
	(Poast)		1.5-2.0 pt	12
Apply to actively grow as a separate spray.	ving grasses before tillering OR sec	edhead formation. Us	se crop oil according to label d	irections. Apply
Established perennia	l grasses			
	*pronamide	2.0-4.0		
	(*Kerb 50WP)		4-8 lb	24
least 1 yr. Effective on			e established at least 6 mo, fall	-planted trees a
Trees Established in	Orchard at Least One Full Year			
Materials as listed for	Year of Planting			

Materials as listed for Year of Planting

Table 17.5.1. Weed control guidelines for APRICOTS.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual grasses and br	oadleaf weeds			
-	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-4.0		
	(Surflan AS)		3-4 qt	24
Apply late fall OR early paraquat to help contro	y spring before weed emergence. Vol emerged weeds.	Will not control estab	plished perennial grasses OR w	eeds. Add
	Chateau (flumioxazin)		6.0-12.0	12
	mixed with labeled burndown he xed with Surflan, simazine or diur		• • •	

soils and/or where trees are less than three years old.

Dandelion and other broadleaf weeds in sod cover

2,4-D 1.4 (\*2,4-D Amine) 3.0 pt 48 (\*Weedar 64; \*Unison) 3.0 pt 48

Fall (best) OR early spring BEFORE TREES OR DANDELIONS BEGIN TO BLOOM. Yearly application is needed to control dandelions. Avoid contact with fruit, foliage, stems, OR lower limbs of trees. Unison not a vaporizer.

Novylv Pla	inted and E	etablichad	Orcharde
Newry Lia			Of Charles

Annual grasses & broadleaved weeds, perennial weeds, woody brush and vines					
glyphosate	_	(mix 1 gal in			
(Roundup, etc.)	33% solution	2 gal water)	12		
(WIPER APPLICATION ONLY	<i>(</i> )				

Best timing varies with weed type; see label for specific directions. AVOID ANY CONTACT WITH FOLIAGE, BRANCHES, OR TRUNKS OF TREES BECAUSE OF EXTREME SENSITIVITY TO THESE MATERIALS.

#### Established perennial broadleaf weeds

\*Clopyralid 0.12-0.24 (\*Stinger) 1/3-2/3 pt 12

Apply for post-emergence control of specific problem weeds such as Canada thistle, clover, vetch, dandelion, in row and row middles. Not to exceed 2/3 pt/A/year.

<sup>\*</sup>Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the supervision of a certified applicator. Refer to inside back cover for key to abbreviations and footnotes.

## 17.6 Plums and Prunes

Table 17.6.1. Weed control guidelines for PLUMS and PRUNES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Year of Planting				
Annual grasses and br	oadleaf weeds			
Apply as soon as soil ha	as settled and no cracks are presen	t		
	oxyfluorfen	1.2-2.0		
	(Goal 2XL)		2.4-4 qt	24
Oxyfluorfen application	as limited to dormant trees (before	buds on trees begin	to grow).	
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-6.0		
	(Surflan AS)		3-6 qt	24
Add *paraquat to help control later emerging v	control established perennial grass veeds.	es and weeds. Additi	ional control measures may be	e needed to
	*paraquat	0.63-1.0		
	(*Gramaxone Max)		1.7-2.7 pt	12
Apply to emerged weed WORKER SAFETY CA	ls as needed. Avoid contact of *pa AUTIONS.	raquat with foliage o	or trunks of trees. SEE LABEI	L FOR
	carfentrazone-ethyl	0.03		
	(Aim EW, EC)		1.9 oz	12
Apply in tank mix with	paraquat for broadleaf and grass of	control, but avoid con	ntact with green bark and folia	age.
	Chateau (flumioxazin)		6.0	12
Protect trees from spray	contact by non-porous wraps, gro	ow tubes, or waxed c	containers.	
Annual and perennial	grasses			
	fluazifop	0.25-0.375		
	(Fusilade DX)		1-1.5 pt	12
Grasses 2-8 in tall. Repo	eat before regrowth is 10 in tall. U	se surfactant OR cro	op oil according to label direct	tions.
	sethoxydim	0.28-0.47		
	(Poast)		1.5-2.0 pt	12
	ng grasses before tillering or seed factant or crop oil according to la			NBEARING
Established perennial	grasses			
	*pronamide	2.0-4.0		
	(*Kerb 50WP)		4-8 lb	24
Apply late fall before so	oil freeze-up (November). Spring-	planted trees must be	e established at least 6 mo, fal	l-planted trees a

Apply late fall before soil freeze-up (November). Spring-planted trees must be established at least 6 mo, fall-planted trees at least 1 yr. Effective on quackgrass.

Table 17.6.1. Weed control guidelines for PLUMS and PRUNES.

		Active Ingredient		
Weeds Controlled	Materials	(lb)/A	Formulated Product/A	REI (hrs)
Trees Established in	Orchard at Least One Full Year			
Materials as listed for	Year of Planting			
or				
Annual grasses and b	roadleaf weeds			
	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
plus either	napropamide	4.0		
	(Devrinol 50DF)		8 lb	12
or	pendimethalin	4.0		
	(Prowl 3.3EC, Prowl H2O)		4.8 qt	24
or	oryzalin	3.0-4.0		
	(Surflan AS)		3-4 qt	24
Apply late fall or early	spring before weed emergence. Ac	ld *paraquat to help	control emerged weeds. Will n	ot control

established perennial grasses or weeds.

Chateau (flumioxazin) 6.0 - 12.012

Chateau should be tank mixed with labeled burndown herbicide (glyphosate, paraquat, 2,4-D, Rely) for control of emerged weeds. May be tank mixed with Surflan, simazine or diuron for additional residual weed control. Use 6.0 oz. rate on sandy soils and/or where trees are less than three years old.

#### Dandelion and other broadleaf weeds in sod cover

2.4-D 1.4 (\*2,4-D Amine) 3.0 pt 48 (\*Weedar 64; \*Unison) 3.0 pt 48

Apply 2,4-D fall (best) or early spring BEFORE TREES OR DANDELIONS BEGIN TO BLOOM. AVOID CONTACT WITH FRUIT, FOLIAGE, STEMS, OR LOWER LIMBS OF TREES. Yearly application is needed to control dandelions.

#### **Newly Planted and Established Orchards**

#### Perennial weeds, woody brush and vines

(mix 1 gal in glyphosate (Roundup, etc.) 12 33% solution 2 gal water) (WIPER APPLICATION ONLY)

Best timing varies with weed type; see label for specific directions. AVOID ANY CONTACT WITH FOLIAGE, BRANCHES, OR TRUNKS OF TREES BECAUSE OF EXTREME SENSITIVITY TO THESE MATERIALS.

#### Established perennial broadleaf weeds

\*Clopyralid 0.12 - 0.24

(\*Stinger) 1/3-2/3 pt 12

Apply for post-emergence control of specific problem weeds such as Canada thistle, clover, vetch, dandelion, in row and row middles. Not to exceed 2/3 pt/A/year.

<sup>\*</sup>Restricted-use pesticide; may be purchased and used only by certified applicators or used by someone under the supervision of a certified applicator. Refer to inside back cover for key to abbreviations and footnotes.