

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				
Annual grasses and broadleaf weeds				
Apply as soon as soil has settled and no cracks are present.				
	oxyfluorfen (Goal 2XL, Galigan 2E)	1.6-2.0	3.2-4 qt	24
Oxyfluorfen applications limited to dormant trees (before buds on trees begin to grow).				
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-6.0	3-6 qt	24
Additional measures may be needed to control later emerging weeds. Add *paraquat to help control established perennial grasses and weeds.				
	*paraquat (*Gramoxone Max)	0.63-1.0	1.7-2.7 pt	12
Apply to emerged weeds as needed. Avoid contact of *paraquat with foliage or trunks of trees. SEE LABEL FOR WORKER SAFETY CAUTIONS.				
	Chateau (flumioxazin)		6.0	12
Protect trees from spray contact by non-porous wraps, grow tubes, or waxed containers.				
	glyphosate (Roundup, etc.)	1.0-3.0	1-3 qt	12
Apply to emerged weeds as needed. Avoid contact of glyphosate with foliage, branches, suckers or trunks of trees.				
	carfentrazone-ethyl (Aim EW,EC)	0.03	1.9 oz	12
Apply in tank mix with paraquat or glyphosate for broadleaf and grass control, but avoid contact with green bark and foliage.				
Annual or perennial grasses				
	fluazifop (Fusilade DX)	0.25-0.375	1-1.5 pt	12
Apply as separate spray when grass is 2-8 in tall. Repeat in 2-3 wk or before regrowth is 10 in tall. Add surfactant or crop-oil concentrate (see label). NONBEARING TREES ONLY.				
	sethoxydim (Poast)	0.28-0.47	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 for at Least One Full Year				
Materials as listed for year of planting				
<i>or</i>				
Annual grasses and broadleaf weeds				
	simazine	1.0-2.0		

Table 17.1.1. Weed control guidelines for APPLES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual grasses and broadleaf weeds (continued)				
	(Simazine 90DF)		1.1-2.2 lb	
	(Caliber 90)		1.125-2.25 lb	
	(Princep 4L)		1-2 qt	12
<i>plus</i>	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
Apply early spring before weeds emerge. See soil-texture rate limitations for simazine and norflurazon. Add *paraquat to help control established weeds. Addition of napropamide, pendimethalin, or oryzalin have improved late-season annual grass and broadleaf control.				
<i>or</i>				
	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
<i>plus</i>	diuron	1.0-2.0		
	(Karmex 80DF, Diuron 80DF)		1.25-2.5 lb	12
Apply early spring before weeds emerge. See labels for soil-texture rate limitations for simazine and diuron. Add *paraquat to help control established weeds. Additions of napropamide or oryzalin have improved late-season annual grass and broadleaf weed control.				
<i>or</i>				
	diuron	1.0-2.0		
	(Karmex 80DF)		1.25-2.5 lb	12
<i>plus</i>	norflurazon	2.0-2.4		
	(Solicam 80DF)		2.5-3.0 lb	12
Apply early spring before weeds emerge. See 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 and broadleaf weed control.				
	dichlobenil	4.0-6.0		
	(Casoron 4G)		100-150 lb	12 (E)
November to March when soil temp is below 45°. Controls many annual and perennial grasses and 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.				
Established perennial grasses				
	*pronamide	2.0-4.0		
	(*Kerb 50WP)		4.0-8.0 lb	24
Apply late fall before soil freezes. Spring-planted trees must be established at least 6 mo; fall-planted trees at least 1 yr. Use other materials for broadleaves and late-summer annual grasses.				
Broadleaf weeds				
	2,4-D	1.4		
	(*Weedar 64; *Unison; *2,4-D Amine)		3 pt	48

Table 17.1.1. Weed control guidelines for APPLES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Trees Established in Orchard at Least Two Full Years				
Materials as listed for younger trees				
<i>or</i>				
Annual grasses and broadleaf weeds				
	diuron (Karmex 80DF)	0.8-1.6	1.0-2.0 lb	12
<i>plus</i>	terbacil (Sinbar 80WP)	0.8-1.6	1.0-2.0 lb	12
	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	1.6-2.0	1.8-2.2 lb 1.75-2.25 lb 1.6-2.0 qt	12
<i>plus</i>	terbacil (Sinbar 80WP)	0.8-1.6	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 *paraquat if emerged weeds are present. Second *paraquat application may be needed.				
Trees Established in Orchard at Least Three Full Years				
Materials as listed for younger trees				
<i>or</i>				
Annual grasses and broadleaf weeds				
	diuron (Karmex 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus</i>	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	2.0-2.4	2.25-2.66 lb 2.25-2.66 lb 2-2.4 qt	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.				
<i>or</i>				
	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	2.0-2.4	2.25-2.66 lb 2.25-2.66 lb 2-2.4 qt	12
<i>plus</i>	terbacil (Sinbar 80WP)	2.0-2.4	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 *paraquat to help control established weeds.				
Established Orchards				
Established perennials, woody brush and vines				
	glyphosate (Roundup/Roundup WeatherMax, Touchdown)	2.0-4.0	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 (continued)				
Best timing varies with weed type. See label. Avoid contact of glyphosate with foliage, branches or trunks of trees less than 3 yr old.				
<i>or</i>	*Weedar 64; *2,4-D Amine; *Unison	2-3 pt		48
<i>plus</i>	glyphosate (Roundup, etc.)	2.0-3.0	2-3 qt	12

**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.

Weeds Controlled	Materials	Active 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 present.				
	oxyfluorfen (Goal 2XL)	1.2-2.0	2.4-4 qt	24
Oxyfluorfen applications limited to dormant trees (before buds on trees begin to grow).				
<i>plus either</i>	napropamide (Devrinol DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4-8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-6.0	3-6 qt	24
Add *paraquat to help control established perennial grasses and weeds.				
	Chateau (flumioxazin)		6.0	12
Protect trees from spray contact by non-porous wraps, grow tubes, or waxed containers.				
	*paraquat (*Gramaxone Max)	0.63-1.0	1.7-2.7 pt	12
Apply to emerged weeds as needed. Avoid contact of *paraquat with foliage or trunks of trees. SEE LABEL FOR WORKER SAFETY CAUTIONS.				
	glyphosate (Roundup, etc.)	1.0-3.0	1-3 qt	12
Apply to emerged weeds as needed. Avoid contact of glyphosate with foliage, branches, suckers or trunks of trees.				
	carfentrazone-ethyl (Aim EW, EC)	0.03	1.9 oz	12
Apply in tank mix with paraquat or glyphosate for broadleaf and grass control, but avoid contact with green bark and foliage.				

Table 17.2.1. Weed control guidelines for PEARS.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual or perennial grasses				
	fluazifop (Fusilade DX)	0.25-0.375	1-1.5 pt	12
Apply when grass is 2-8 in. tall. Repeat in 2-3 wk or before regrowth is 10 in. tall. Apply as separate spray. Add surfactant or crop-oil concentrate (see label). NONBEARING TREES ONLY.				
	sethoxydim (Poast)	0.28-0.47	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				
<i>or</i>				
Annual grasses and broadleaf weeds				
	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	1.0-2.0	1.1-2.2 lb 1.125-2.25 lb 1-2 qt	12 12 12
<i>plus</i>	norflurazon (Solicam 80D)	2.0-2.4	2.5-3.0 lb	12
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.				
<i>or</i>				
	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	1.0-2.0	1.1-2.2 lb 1.125-2.25 lb 1-2 qt	12 12 12
<i>plus</i>	diuron (Karmex 80DF)	1.0-2.0	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.				
<i>or</i>				
	diuron (Karmex 80DF)	1.0-2.0	1.25-2.5 lb	12
<i>plus</i>	norflurazon (Solicam 80DF)	2.0-2.4	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.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual grasses and broadleaf weeds (<i>continued</i>)				
	<i>or</i>			
	dichlobenil (Casoron 4G)	4.0-6.0	100-150 lb	12(E)
November to March when soil temp is below 45°F. Controls many annual and perennial grasses and 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. Do not apply to pears after bloom.				
Established perennial grasses				
	*pronamide (*Kerb 50WP)	2.0-4.0	4.0-8.0 lb	24
Apply late fall before soil freezes. Use other materials for broadleaves.				
Broadleaf weeds				
	2,4-D (*Weedar 64; *Unison; *2,4-D Amine)	1.4	3 pt	48
Trees Established in Orchard at Least Three Full Years				
Materials as listed for younger trees				
	<i>or</i>			
Annual grasses and broadleaf weeds				
	diuron (Karmex 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus</i>	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	2.0-2.4	2.2-2.7 lb 2.2-2.7 lb 2-2.4 qt	12 12 12
Apply late fall or early spring before weeds emerge. See labels for soil-texture rate limitations for simazine and diuron. Add *paraquat to help control established weeds.				
Established Orchards				
Established perennials, woody brush and vines				
	glyphosate (Roundup, Touchdown)	2.0-4.0	2-3 qt	12
Best timing varies with weed type. See label. Avoid contact of glyphosate with foliage, branches or trunks of trees less than 3 yr old.				
	*Weedar 64; *2,4-D Amine; *Unison		2-3 pt	48
<i>plus</i>	glyphosate (Roundup, etc.)	2.0-3.0 2-3 qt		

**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.

Weeds Controlled	Materials	Active 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 present.				
	oxyfluorfen (Goal 2XL)	1.2-2.0		
Oxyfluorfen applications limited to dormant trees (apply before buds begin to grow).				
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS) Chateau (flumioxazin)	3.0-6.0	3-6 qt 6.0	24 12
Protect trees from spray contact by non-porous wraps, grow tubes, or waxed containers.				
	*paraquat (*Gramaxone Max)	0.63-1.0	1.7-2.7 pt	12
Apply *paraquat to emerged weeds as needed. Avoid contact with foliage or trunks of trees. SEE LABEL FOR WORKER SAFETY CAUTIONS.				
	carfentrazone-ethyl (Aim EW, EC)	0.03	1.9 oz	12
Apply in tank mix with paraquat for broadleaf and grass control, but avoid contact with green bark and foliage.				
Annual and perennial grasses				
	fluazifop (Fusilade DX)	0.25-0.375	1-1.5 pt	12
Apply fluazifop when grasses are 2-8 in tall. Repeat before regrowth is 10 in tall. Use surfactant or crop oil according to label directions.				
	sethoxydim (Poast)	0.28-0.47	1.5-2.0 pt	12
Apply sethoxydim to actively growing grasses before tillering or seedhead formation. Use surfactant or crop oil according to label directions. Apply as a separate spray.				
Established perennial grasses				
	*pronamide (*Kerb 50WP)	2.0-4.0	4-8 lb	24
Late fall but 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.				
Annual and perennial grasses and broadleaf weeds				
	dichlobenil (Casoron 4G)	4.0-6.0	100-150 lb	12(E)
Apply Nov. to Mar. 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 Year				
Materials as listed for year of planting				
<i>or</i>				
Annual grasses and broadleaf weeds				
	norflurazon (Solicam 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-4.0	3-4 qt	24
<i>or</i>	norflurazon (Solicam 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus</i>	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	1.0-2.0	1.1-2.2 lb 1.125-2.25 lb 1-2 qt	12 12 12
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-6.0	3-4 qt	24
Apply late fall or early spring before weeds emerge. Will not control established perennial grasses or 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.				
Dandelion and other broadleaf weeds in sod cover				
	2,4-D (*2,4-D Amine) (*Weedar 64; *Unison)	1.4	3.0 pt 3.0 pt	48 48
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 (Roundup, etc.)	1.0-4.0	1.0-4.0 qt	12
<i>or</i>	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 (*Stinger)	0.12-0.24	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.				

**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.*

17.4 Peaches

Table 17.4.1. Weed control guidelines for PEACHES.

Weeds Controlled	Materials	Active 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 present				
	oxyfluorfen (Goal 2XL)	1.2-2.0	2.4-4 qt	24
Oxyfluorfen applications limited to dormant trees (before buds on trees begin to grow)				
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin *Surflan AS)	3.0-6.0	3-6 qt	24
	*paraquat (*Gramaxone Inteon)	0.63-1.0	1.7-2.7 pt	
Apply to emerged weeds as needed. Avoid contact of *paraquat with foliage or trunks of trees. SEE LABEL FOR WORKER SAFETY CAUTIONS.				
	carfentrazone-ethyl (Aim EW, EC)	0.03	1.9 oz	12
Apply in tank mix with paraquat for broadleaf and grass control, but avoid contact with green bark and foliage.				
	Chateau (flumioxazin)	6.0	12	
Protect trees from spray contact by non-porous wraps, grow tubes, or waxed containers.				
Annual and perennial grasses				
	fluazifop (Fusilade DX)	0.25-0.375	1-1.5 pt	12
Grasses 2-8 in tall. Repeat before regrowth is 10 in tall. Use surfactant or crop oil according to label directions.				

Table 17.4.1. Weed control guidelines for PEACHES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual and perennial grasses (continued)				
	sethoxydim (Poast)	0.28-0.47	1.5-2.0 pt	12
Apply to actively growing grasses before tillering or seedhead formation. Use surfactant or crop oil according to label directions. Apply as a separate spray.				
Established perennial grasses				
	*pronamide (*Kerb 50WP)	2.0-4.0	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.				
<i>Refer to label for registration status before applying any pesticide to nectarines.</i>				
Trees Established in Orchard at Least One Full Year				
Materials as listed for Year of Planting				
<i>or</i>				
Annual grasses and broadleaf weeds				
	norflurazon (Solicam 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-4.0	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.				
	simazine (Simazine 90DF) (Caliber 90) (Princep 4L)	1.0-2.0	1.125-2.25 lb 1.125-2.25 lb 1-2 qt	12 12 12
<i>plus</i>	norflurazon (Solicam 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC)	4.0	4.8 qt	24
Pendimethalin use limited to NONBEARING TREES ONLY.				
<i>or</i>	oryzalin (Surflan AS)	3.0-4.0	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.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Chateau (flumioxazin) (<i>continued</i>)				
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
<i>plus</i>	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.

***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 broadleaf weeds				
Apply as soon as soil has settled and no cracks are present				
	oxyfluorfen (Goal 2XL)	1.2-2.0	2.4-4 qt	24
Oxyfluorfen applications limited to dormant trees (before buds on trees begin to grow).				
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H20)	4.0	4.8 qt	24
<i>or</i>	oryzalin *Surflan AS)	3.0-6.0	3-6 qt	24
Add *paraquat to help control established perennial grasses and weeds. Additional control measures may be needed to control later emerging weeds.				
	*paraquat (*Gramaxone Inteon)	0.63-1.0	1.7-2.7 pt	12
Apply to emerged weeds as needed. Avoid contact of *paraquat with foliage OR trunks of trees. SEE LABEL FOR WORKER SAFETY CAUTIONS.				
	carfentrazone-ethyl (Aim EW, EC)	0.03	1.9 oz	12
Apply in tank mix with paraquat for broadleaf and grass control, but avoid contact with green bark and foliage.				
	Chateau (flumioxazin)		6.0	12
Protect trees from spray contact by non-porous wraps, grow tubes, or waxed containers.				
Annual and perennial grasses				
	fluazifop (Fusilade DX)	0.25-0.375	1-1.5 pt	12
Grasses 2-8 in tall. Repeat before regrowth is 10 in tall. Use surfactant OR crop oil according to label directions.				
	sethoxydim (Poast)	0.28-0.47	1.5-2.0 pt	12
Apply to actively growing grasses before tillering OR seedhead formation. Use crop oil according to label directions. Apply as a separate spray.				
Established perennial grasses				
	*pronamide (*Kerb 50WP)	2.0-4.0	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.				
Trees Established in Orchard at Least One Full Year				
Materials as listed for Year of Planting				
<i>or</i>				

Table 17.5.1. Weed control guidelines for APRICOTS.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Annual grasses and broadleaf weeds				
	norflurazon (Solicam 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-4.0	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.				
Dandelion and other broadleaf weeds in sod cover				
	2,4-D (*2,4-D Amine)	1.4	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.				
Newly Planted and Established Orchards				
Annual grasses & broadleaved weeds, perennial weeds, woody brush and vines				
	glyphosate (Roundup, etc.)	— 33% solution	(mix 1 gal in 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 (*Stinger)	0.12-0.24	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.				

***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 broadleaf weeds				
Apply as soon as soil has settled and no cracks are present				
	oxyfluorfen (Goal 2XL)	1.2-2.0	2.4-4 qt	24
Oxyfluorfen applications limited to dormant trees (before buds on trees begin to grow).				
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-6.0	3-6 qt	24
Add *paraquat to help control established perennial grasses and weeds. Additional control measures may be needed to control later emerging weeds.				
	*paraquat (*Gramaxone Max)	0.63-1.0	1.7-2.7 pt	12
Apply to emerged weeds as needed. Avoid contact of *paraquat with foliage or trunks of trees. SEE LABEL FOR WORKER SAFETY CAUTIONS.				
	carfentrazone-ethyl (Aim EW, EC)	0.03	1.9 oz	12
Apply in tank mix with paraquat for broadleaf and grass control, but avoid contact with green bark and foliage.				
	Chateau (flumioxazin)		6.0	12
Protect trees from spray contact by non-porous wraps, grow tubes, or waxed containers.				
Annual and perennial grasses				
	fluazifop (Fusilade DX)	0.25-0.375	1-1.5 pt	12
Grasses 2-8 in tall. Repeat before regrowth is 10 in tall. Use surfactant OR crop oil according to label directions.				
	sethoxydim (Poast)	0.28-0.47	1.5-2.0 pt	12
Apply to actively growing grasses before tillering or seedhead formation. Use of sethoxydim limited to NONBEARING TREES ONLY. Use surfactant or crop oil according to label directions. Apply as a separate spray.				
Established perennial grasses				
	*pronamide (*Kerb 50WP)	2.0-4.0	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.				

Table 17.6.1. Weed control guidelines for PLUMS and PRUNES.

Weeds Controlled	Materials	Active Ingredient (lb)/A	Formulated Product/A	REI (hrs)
Trees Established in Orchard at Least One Full Year				
Materials as listed for Year of Planting				
<i>or</i>				
Annual grasses and broadleaf weeds				
	norflurazon (Solicam 80DF)	2.0-2.4	2.5-3.0 lb	12
<i>plus either</i>	napropamide (Devrinol 50DF)	4.0	8 lb	12
<i>or</i>	pendimethalin (Prowl 3.3EC, Prowl H2O)	4.0	4.8 qt	24
<i>or</i>	oryzalin (Surflan AS)	3.0-4.0	3-4 qt	24
Apply late fall or early spring before weed emergence. Add *paraquat to help control emerged weeds. Will not control established perennial grasses or 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.				
Dandelion and other broadleaf weeds in sod cover				
	2,4-D (*2,4-D Amine) (*Weedar 64; *Unison)	1.4	3.0 pt 3.0 pt	48 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				
	glyphosate (Roundup, etc.) (WIPER APPLICATION ONLY)	— 33% solution	(mix 1 gal in 2 gal water)	12
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 (*Stinger)	0.12-0.24	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.				
<i>*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.</i>				