HS88



Weed Management in Apples ¹

Jeffrey G. Williamson²

The following table contains information on chemical weed control for apples grown in Florida. Always read and follow all label directions carefully and exactly when applying any pesticide. Soil types and possible crop injury from herbicides vary greatly throughout Florida. Do not apply a herbicide to an inappropriate soil type even if the herbicide is labeled for that crop. See Table 1.

This document is HS88, one of a series of the Department of Horticultural Sciences, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Original publication date: 1994. Revised: November, 2007. Please visit the EDIS Web site at http://edis.ifas.ufl.edu.

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 Table 1. Chemical Weed Control in Apples.

Pre-emergence		
Common name Trade name	Pounds active ingredient per acre	Time of application
Dichlorbenil (Casoron 4G)	4 to 6	Apply in January or February , but no sooner than 4 weeks after transplanting.
Weeds Controlled and Remarks: A control of perennial weeds. May be u		s and broadleaf weeds. Use higher rate for and nursery stock.
(Diuron, Karmex DF or XP) 80 WDG	1.6 to 3.2	In the spring. March through May, on trees established at least one year in orchard.
Use and rate depend on soil texture a exposed subsoils, nor where organic	and organic matter. Do not u matter is less than 1%. See tablished at least 1 year in th	ual grasses and perennial weed seedlings use on sand, loamy sand, gravelly soils, or label for additional use restrictions based ne orchard. Best results occur when rainfald on full-dwarf rootstocks.
Flumioxazin (Chateau) 51 WDG	0.19 to 0.38	Newly planted and established trees.
be tank mixed with a labeled burn do acre to trees planted less than 3 year	wn herbicide for control of e	s established for less than one year. May merged weeds. Do not exceed 6 oz per gravel content exceeding 80%. Do not lyphosate or 2, 4 -D Amime after trees
Oryzalin (Surflan) 4AS	2 to 4	Allow soil to settle around newly planted trees.
	rior to application or destroy /2-1" rain does not occur wi	ed by a contact herbicide. Sprinkler irrigate thin 21 days of application. May be tank
Oxyfluorfen (Goal 2 XL or OxiFlo) 2EC (Galigan) 2E (GoalTender) 4E	1.25 to 2	Apply to dormant trees until just before budswell. Do not apply when foliage or fruit are present.
Weeds Controlled and Remarks: C with crop plant. May be tank mixed w		d some grass weeds. Avoid direct contact s-emergence herbicides (see label).
Pendimethalin (Prowl H ₂ O) 4AS	2 to 4	Do not apply to newly planted trees until soil has settled around roots.
		e irrigation or rainfall occurs within 7 days emerged weeds. Do not apply within 60

Weeds Controlled and Remarks: Controls certain annual grasses and broadleaf weeds. Trees must established at least 1 year. Avoid contact with fruit, foliage or stems. Do not allow animals to graze trareas. Do not use on sand, loamy sand, or gravelly soils. Terbacil (Sinbar) 80 WP Apply either in the spring or after in the fall before weeds emerge of early seedling stage of weed grow	Common name Trade name	Pounds active ingredient per acre	Time of application
established at least 1 year. Avoid contact with fruit, foliage or stems. Do not allow animals to graze to areas. Do not use on sand, loamy sand, or gravelly soils. Terbacil (Sinbar) 80 WP 1.6 to 3.2 Apply either in the spring or after in the fall before weeds emerge of early seedling stage of weed grown only on trees that have been estated for 3 or more years. Weeds Controlled and Remarks: Certain annual grasses and broadleaf weeds with partial control of perennials at higher rates. Use only under trees established in the orchard for at least 3 years. Use amount of product used will vary according to soil texture and organic matter. Do not use on sand, loss and, or gravelly soils nor soils with less than 1 percent organic matter (see label). If dense weed grown present at application remove tops and then treat the ground. Best results are obtained if moisture is		2 to 4	Apply in late fall to early spring prior to weed emergence.
(Sinbar) 80 WP in the fall before weeds emerge of early seedling stage of weed grown only on trees that have been estated for 3 or more years. Weeds Controlled and Remarks: Certain annual grasses and broadleaf weeds with partial control of perennials at higher rates. Use only under trees established in the orchard for at least 3 years. Use amount of product used will vary according to soil texture and organic matter. Do not use on sand, loss and, or gravelly soils nor soils with less than 1 percent organic matter (see label). If dense weed grown present at application remove tops and then treat the ground. Best results are obtained if moisture is	Weeds Controlled and Remarks: Controls certain annual grasses and broadleaf weeds. Trees must be established at least 1 year. Avoid contact with fruit, foliage or stems. Do not allow animals to graze treated areas. Do not use on sand, loamy sand, or gravelly soils.		
perennials at higher rates. Use only under trees established in the orchard for at least 3 years. Use amount of product used will vary according to soil texture and organic matter. Do not use on sand, lo sand, or gravelly soils nor soils with less than 1 percent organic matter (see label). If dense weed gropresent at application remove tops and then treat the ground. Best results are obtained if moisture is		1.6 to 3.2	Apply either in the spring or after harvest in the fall before weeds emerge or during early seedling stage of weed growth. Use only on trees that have been established for 3 or more years.
not use on eroded areas, nor on unhealthy trees or on trees under certain irrigation regimes. Preventand spray from contacting desirable plants.			

2 to 4	See label for directions.
+	
2 to 4	
	+

Weeds Controlled and Remarks: Can be used in combination with certain post-emergence herbicides to control existing weeds.

Post-emergence		
Common name Trade name	Pounds active ingredient per acre	Time of application
Carfentrazone-ethyl (Aim) 2EC	0.008 to 0.031	Best results when applied to weeds that are in the 2-3 leaf stage.

Weeds Controlled and Remarks: Apply with at a minimum spray volume of 20 gpa. Do not allow contact of spray with green bark, or desirable foliage flowers or fruit of the crop. Do not harvest fruit within 7 days of application. Use with a nonionic surfactant or crop oil concentrate (see label).

Glufosinate (Rely) 1SL	0.75 to 1.5	Do not apply to trees planted in the orchard for less than one year.

Weeds Controlled and Remarks: Do not allow spray to contact green bark or foliage. Apply with a minimum spray volume of 20 gpa. Control of perennial weeds may require repeat applications. Can be tank-mixed with certain pre-emergence herbicides (see label).

Table 1. Chemical Weed Control in Apples.

Common name Trade name	Pounds active ingredient per acre	Time of application
Glyphosate (Roundup) (Touchdown) (several other formulations available)	1 to 2	See label
	ed depends on weed specie or bark of trees established	•
Paraquat (various)	0.6 to 1	Apply to weeds when succulent and new growth is 1-6" high.
are desiccated. Use a non-ionic surfa	actant (see label). Do not allo	s and broadleaf weeds. Perennial weeds by spray to contact green stems, fruit or young trees. Do not graze on treated
Sethoxydim (Poast) 1.5 EC	0.19 to 0.47	Apply to actively growing, non-stressed, grasses. Do not harvest within 14 days of treatment.
	Il grasses. Do not exceed 7.	al grasses. Multiple applications may be 5 pt. per acre per year. see label for opitium

growth stage and size or weeds to be	e treateu.	
Post-emergence - non -bearing only		
Common name Trade name	Pounds active ingredient per acre	Time of application
Clethodim (Arrow) 2EC (Intensity) 1EC (Select) 2EC	0.094 to 0.125	Treat actively growing, non-stressed, grasses. Use only on non-bearing trees.
	•	all grasses. Multiple applications may be nonionic surfactants or concentrated crop
Fluazifop-butyl (Fusilade DX) 2EC	0.125 to 0.38	Nonbearing trees only. Apply to actively growing, nonstressed grasses before they are at a specific growth stage.
Weeds Controlled and Remarks: (ertain annual and perennial	grasses. Use with a crop oil or non-ionic

Weeds Controlled and Remarks: Certain annual and perennial grasses. Use with a crop oil or non-ionic surfactant (see label). May be used for site preparation. Apply to nonbearing trees only.