### Weed Control in Tree Nuts Herbicides Registered for Tree Nuts

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Tree nut weed control is similar to weed control in other tree crops. The herbicides are the same and use-rates are similar. However, since most nuts are grown in other parts of the country, labels often describe soil and weather conditions that do not reflect production in Michigan. Therefore, growers need to use discretion in interpreting labels.

Herbicide information in Table 1 is taken from herbicide labels. The tree nut crops listed on labels are included in the table. Herbicide rates and timing, weather issues, and weeds controlled are for Michigan conditions as much as possible. In some cases, none of the tree crops listed are grown in Michigan. The information is presented for general information.

All herbicide labels can be accessed at the website <a href="http://www.cdms.net/">http://www.cdms.net/</a>.

Please check labels for limitations and specific application information.

#### WEED CONTROL IN TREE NUTS

Сгор	Application timing	Chemical common name trade name	Pounds active ingredient and amount of product per acre	Remarks, target weeds, preharvest interval
Almonds Filberts Pecans Pistachios Walnuts	Preemergence	Indaziflam (Alion 1.675C)	0.065-0.085 lb ai 5.0-6.5 fl oz	Controls most broadleaves and grasses. Apply to nut trees that have been established for 1 year or more. Apply to pecans and pistachios that have been established for 3 or more years. Do not use on soils with >20% gravel. 14-day PHI.
All tree nuts	Preemergence	Flumioxazin (Chateau EZ 4 SC)	0.188 - 0.375 lb ai 6-12 fl oz	Controls most broadleaves and grasses. Fall application is most effective. Apply to trees established at least 1 year. Weak on horseweed. Apply before bud swell. Moisture is necessary to activate herbicide. 60-day PHI.
Almonds Filberts Pecans	Preemergence	Napropamide (Devrinol 50DF-XT)	4 lb ai 8 lb	Controls annual broadleaf weeds and grasses for 4-5 weeks. Apply to weed free soil surface. May be applied to newly planted trees. 35-day PHI.
Almonds Beechnuts Brazil nuts Butternuts Chestnuts Chinquapin Macadamia Pecans Pistachios	Preemergence	Oxyfluorfen (Goal XL 2EC)	1.25-1.5 lb ai 5-6 pt	Controls most annual broadleaves and grasses. Apply before bud swell in the spring.
Pecans	Preemergence	Diuron (Karmex 80 DF)	1.6-3.2 lb ai 2-4 lb	Controls annual broadleaves and grasses for 6-8 weeks. Do not use on sand, loamy sand, gravelly soils, or on soil with <1% organic matter. Apply in the spring before weeds emerge.
All tree nuts		Mesotrione (Mesotrione 4SC)	0.125 - 0.188 lb ai 4 - 6 fl oz	Controls annual broadleaves. Max 12 fl oz/yr. 30 day PHI.

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# WEED CONTROL

### WEED CONTROL IN TREE NUTS (continued)

Crop	Application timing	Chemical common name trade name	Pounds active ingredient and amount of product per acre	Remarks, target weeds, preharvest interval
All tree nuts	Preemergence	Rimsulfuron (Matrix 25 DF)	0.063 lb ai 4 oz	Apply to trees that have been established for one year or more. Controls grasses and broad- leaves. 14-day PHI.
Macadamia Filberts Pecans Walnuts	Preemergence	Simazine (Princep 4L)	2-4 lb ai 2-4 qt	Controls broadleaves and grasses for 4-6 weeks. Apply before weeds emerge in the spring. 21-day PHI.
All tree nuts	Preemergence	Pendimethalin (Prowl H2O 3.8CS)	1.9-5.99 lb ai 2-6.3 qt	Controls annual grasses and some broadleaves. Apply before bud swell. Do not apply to newly transplanted trees until ground has settled and no cracks are present. 60-day PHI.
Filberts Walnuts Almonds	Preemergence	Norflurazon (Solicam 80 DF)	2-4 lb ai 2.5-5 lb	Controls annual grasses, some broadleaves, and yellow nutsedge. Apply in spring or fall. 60-day PHI.
All tree nuts	Preemergence	Oryzalin (Surflan 4 AS)	2-6 lb ai 2-6 qt	Controls annual grasses and some broadleaves for 4-6 weeks. Apply in spring before weeds emerge. Needs rainfall to activate.
All tree nuts	Preemergence	Isoxaben (Trellis 4.16 SC)	0.52-1 lb ai 16-31 fl oz	Controls broadleaves for 4-6 weeks. Apply to established bearing and non-bearing trees. Needs rainfall of 0.5 inch to activate. 60-day PHI.
Filberts	Preemergence	Dichlobenil (Casoron 1.4 CS)	1.96-3.92 lb ai 1.4-2.8 gal	Controls most annual and perennial weeds for 8-10 weeks. Apply to trees established at least 1 year. Use high rate for perennial weed control.
Almonds Blk walnuts Eng walnuts Pecan Pistachios	Preemergence	Penoxsulam and oxyfluorfen (Pindar 4.013 GT)	0.75-1.5 lb ai 1.5-3.0 pt	Controls most annual weeds and some peren- nials. Apply to almond trees that have been established at least 15 months. Apply to other tree nut crops that have been established at least 9 months. Apply only to crops in good health and vigor.
Walnut	Preemergence	sulfentrazone (Zeus 4F)	0.375 lb ai 12 fl oz	Walnut. Apply to trees that have been established for 3 or more years. Apply to weed-free soil. Avoid contact with green bark or leaves of trees. Do not tank mix with Chateau. 3-day PHI.
Filbert Hazelnut Pecan Pistachio Black walnut English Walnut	Preemergence	Flazasulfuron (Mission 25WDG)	0.033-0.045 lb ai 2.14-2.85 oz	Trees 3 years in field or older. Apply in fall or spring for control of most annual weeds. Poor control of horseweed and nightshade. Maximum of 2 applications and 2.85 oz per year. 3 months between applications. 130-day PHI.
All tree nuts	Preemergence Postemergence	Halosulfuron (Sandea 75DF)	0.031-0.063 lb ai 2/3-1 1/3 oz	Controls nutsedge and broadleaf weeds. Apply to nut trees that have been established 1 year or more. 1-day PHI.

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## WEED CONTROL

### WEED CONTROL IN TREE NUTS (continued)

Crop	Application timing	Chemical common name trade name	Pounds active ingredient and amount of product per acre	Remarks, target weeds, preharvest interval
Almonds Pistachios Walnuts	Postemergence	Saflufenacil (Treevex 70 WG)	0.044 lb ai 1.0 oz	Controls horseweed and other broadleaves. Apply as a postemergence-directed spray to the base of the trees. 7-day PHI.
All tree nuts	Postemergence	Glyphosate (Roundup 5.5)	0.5 - 2 lb ai 0.7 - 3.6 qt	Apply with a preemergence herbicide in spring for control of emerged annual and perennial weeds. Reapply during the season as needed. Avoid contact with crop foliage or green bark. 3-day PHI.
All tree nuts	Postemergence	Carfentrazone (Aim 2 EC)	0.031 lb ai 2 fl oz	Controls small broadleaf weeds. Include NIS in tank mix. 3-day PHI.
All tree nuts	Postemergence	Paraquat (Gramoxone SL 3.0)	0.64 - 1 lb ai 1.7 - 2.7 pt	Desiccates green foliage. Make applications prior to shaking for harvest. Include NIS. Maximum of 5 applications per year.
Almonds Filberts Hickory Macadamia Pecans Pistachios Walnuts	Postemergence	Glufosinate (Rely 280 2.34L)	0.75 - 1.5 lb ai 48-82 fl oz	Desiccates green foliage of annual and peren- nial weeds. If weeds are <3 inches high, apply 48 fl oz/acre. If weeds are <6 inches high, apply 56 fl oz/acre. If weeds are >6 inches in height, apply 56-82 fl oz/acre. Include NIS. Maximum of 15.4 pt/acre/year in 3 applications. 14-day PHI.
All tree nuts	Postemergence grasses	Sethoxydim (Poast 1.5EC)	0.188 - 0.469 lb ai 1-2.5 pt	Kills grasses. Use high rate for perennial grasses. Maximum of 10 pt/acre/year. Include NIS. 15-day PHI.
All tree nuts	Postemergence grasses	Clethodim (Select Max 0.97EC)	0.068 - 0.12 lb ai 9-16 fl oz	Kills annual and perennial grasses. Use high rate for annual bluegrass control. Use a mini- mum of 15 gal/acre of spray mix. Include NIS in the tank mix. Maximum 64 fl oz/acre/yr. 14 day PHI.
Pecans Macadamia	Postemergence grasses	Fluazifop-P (Fusilade DX 2EC)	0.094 - 0.188 lb ai 6-12 fl oz	Controls annual and perennial grasses. Maximum of 48 fl oz/acre per season on macadamia nuts and 72 fl oz/acre on pecans. Include NIS. 30-day PHI for pecans. 1-day PHI for macadamia nuts.
All tree nuts	Postemergence	Pyraflufen-ethyl (Venue 0.117 SC)	0.004 - 0.0053 lb ai 3 - 4 fl oz	Use with other postemergence herbicides to improve broadleaf weed desiccation. Include NIS. 0-day PHI. Max 12 fl oz/yr.
All tree nuts	Postemergence	2, 4-D (Weedar 64 3.8L) (Embed Extra 3.8L)	1.5 lb ai 3 pt	Controls most annual and perennial broadleaf weeds. For filberts, apply a maximum of 2.1 pt of product per acre. Allow at least 30 days between applications. 60-day PHI.
		caprylic plus capric acid (HomePlate 80 L)	8 - 12 fl oz/gal	Burn down most green plants. Avoid contact with crop stem and foliage. OMRI listed for organic production.
Almond Brazilnut Chestnut Filbert Walnut	Postemergence	pelargonic acid (Scythe 4.2 L)	4qt	Use for desicccation of most broadleaves and grasses.