

FRUIT and NUT CROPS

STRAWBERRY

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
FALLOW BED:			
oxyfluorfen @ 0.25-0.50 lb/A	Goal 1.6E @ 1.25-2.5 pt/A	Winter annual broadleaf weeds such as Carolina geranium and evening primrose.	Apply to fallow beds. May retreat on 30-day intervals up to planting. Apply to clean, smooth, established beds. Rainfall (0.25") is necessary to activate chemical.
PREEMERGENCE:			
simazine @ 1-2 lb/A	Princep 4L @ 1-2 qt/A	Annual bluegrass, large crabgrass, henbit, evening-primrose, chickweed and other weeds listed on the label.	Apply to furrows between raised beds covered with plastic mulch in a min. of 20 gals of water/acre after transplanting when the furrows are firm, free of standing water and prior to weed emergence. (Section 24C label).
napropamide @ 4.0 lb/A	Devrinol 50DF @ 8.0 lb/A Devrinol 2 EC @ 2 gal/A	Annual grasses and broadleaf weeds.	Apply after planting or to established beds before weeds emerge. Must irrigate within 24 hrs with sufficient water to wet soil 2-4". Do not apply after bloom.
POSTEMERGENCE:			
sethoxydim @ 0.3-0.5 lb/A	Poast @ 1.5-2.5 pts/A Apply with COC @ 2 pt/A	Perennial and annual grasses. Pump up sprayer: .3-2 oz/gal Poast + 1.3 oz/gal COC	Apply to actively growing grasses before they exceed labeled heights. Bearing and non-bearing. Use flat fan nozzle tips. Do not apply within 7 days of harvest. Do not exceed 2.5 pts of Poast per season.
clethodim @ 0.1-0.125 lb/A	Select @ 6-8oz/A Apply with COC @ 2 pt/A	Annual and perennial grasses and annual bluegrass. Pump up sprayer: 0.33-0.66 oz/gal Select + 1.3 oz/gal COC)	Apply at postemergence to actively growing grasses. Do not apply under stressed conditions or if rainfall is expected within 4 days of harvest. Do not apply more than 8 oz/A in a single application. For repeat applications make at a minimum of 14- day intervals.
DIRECTED POSTEMERGENCE:			
carfentrazone @ 0.008-0.025/A	Aim 2EC @ 0.5-.6 oz Apply with COC @ 1 gal/100 gal or NIS @ 2 pts/100 gal.	Broadleaf weeds, bristle mallow.	Apply to actively growing weeds up to 4 inches tall and rosettes less than 3 inches across. Does not control grasses. Apply with hooded sprayer to protect crop. Crop injury will occur when spray is allowed to come in contact with green tissue. Coverage is essential for satisfactory performance. Can be tank mixed with other registered herbicides. Do not apply more than 6.1 oz of Aim per acre per season. 0 days before harvest.
paraquat @ 0.49 lb/A	Gramoxone Inteon @ 32 oz/A Apply with NIS @ 1 pt/100 gal Pump up sprayer: 0.5 oz/gal Gramoxone + 0.5 oz/gal NIS	Annual broadleaf and grasses; suppression of perennials in the interspaces and around base of bushes or vines.	Apply in a minimum of 20 gal water/A as a directed spray between rows. Use shields to avoid injury. Do not apply within 3 days of harvest. Do not apply more than 3 times per season. Do not allow spray to contact plants.
simazine @ 1-2 lb/A + paraquat @ 0.49 lb/A	Princep 4L @ 1-2 qt/A + Gramoxone Extra @ 2 pt/A Apply with NIS @ 1-2 pt/100 gal	Weeds controlled by Princep 4L plus those controlled by Gramoxone Extra	Apply between beds covered with plastic mulch as a directed spray in 20 GPA. Apply after transplanting when furrows are firm and free of standing water. See comments above for paraquat and simazine.

FRUIT and NUT CROPS

BLACKBERRIES: Also Trailing Blackberries (Dewberries)

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
simazine @ 2-4 lbs/A	Simazine 4L, Princep @ 2-4 qt/A Simazine 90DF, Princep 90, Caliper @ 2.2-4.4 lbs/	Annual weeds and grasses	Apply as preemergence spring application or as split applications once in spring and once in fall. On plants less than 6 months old, use one-half rate. Do not apply when fruit is present. Do not contact fruit, foliage or stems. Use minimum of 40 gallons water per acre.
oryzalin @ 2-6 lbs/A	Surflan A.S. @ 2.0-6.0 qts/A Oryzalin 4 A.S. @2.0-6.0 qts/A	Annual grasses and certain annual broadleaf weeds	Apply before annual weeds emerge. Can be applied to new plantings after soil has settled. Use low rate for short-term control; high rate for long-term control. Apply in strip in plant rows; do not apply to row middles or drive rows.
POSTEMERGENCE:			
fluazifop @ 0.19-0.37 lb/A	Fusilade DX @ 12-24 fl oz/A Add COC or NIS; see label	Perennial and annual grasses	Apply at postemergence to NON-BEARING plants that will not be harvested within 1 year. DO NOT contact foliage.
sethoxydim @ 0.3-0.5 lb/A	Poast @ 1.5-2.5 pt/A Add COC or NIS; see label	Perennial and annual grasses	Apply at postemergence. Do not apply within 30 days of harvest.
DIRECTED POSTEMERGENCE:			
paraquat @ 0.5-1.0 lb/A	Gramoxone Inteon @ 2-4 pt/A Apply with approved adjuvant; see label.	Annual weeds and grasses; top kill and suppression of perennials in the interspaces and around base of bushes or vines	Apply at postemergence as a coarse directed spray to avoid injury. Apply before emergence of new canes or shoots. Apply in 50 gal water.

FRUIT and NUT CROPS

BLUEBERRIES

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
simazine @ 2-4 lbs/A	Simazine 4L, Princep @ 2-4 qt/A	Annual weeds and grasses	Make single application in spring before bud break and before weed emergence or split applications once in spring and once in fall. On plants less than 6 months old use one-half rate.
	Simazine 90DF, Princep 90, Caliper @ 2.2-4.4 lbs/		
norflurazon @ 2.0-3.9 lbs/A	Solicam DF @ 2.5-5.0 lbs/A	Annual grasses and broadleaf weeds	Apply in fall or early spring prior to weed emergence. Delay applications until 6 months after planting. Avoid contact of fruit or and foliage. Do not apply within 60 days of harvest.
oryzalin @ 2-6 lbs/A	Surflan A.S. @ 2-6 qt/A Oryzalin 4 A.S. @2-6 qts/A	Annual grasses and broadleaf weeds	Apply at preemergence. DO NOT apply to newly established plants until soil has settled. Apply before annual weeds emerge.
POSTEMERGENCE:			
fluazifop @ 0.19-0.37 lbs/A	Fusilade DX @ 12-24 fl oz/A	Perennial and annual grasses	Apply at postemergence. Apply to NON-BEARING bushes only that will not be harvested within one year. Direct spray. DO NOT contact foliage. Always use a crop oil concentrate or a nonionic surfactant. Broadleaf weeds and nutsedge will not be controlled.
sethoxydim @ 0.3-0.5 lb/A	Poast @ 1.5-2.5 pt/A	Perennial and annual grasses	Apply at postemergence. Apply to bearing or non-bearing bushes. Direct spray. Use flat nozzle tips. Always use a non phytotoxic oil concentrate. Broadleaf weeds and nutsedge will not be controlled.
clethodim @ 0.09-0.13 lb/A	Select @ 6-8 fl oz./A	Annual and perennial grasses	Apply before grasses exceed height limitations. Always add an adjuvant or crop oil concentrate to the spray application. Refer to label. Apply to non-bearing plants only.
DIRECTED POSTEMERGENCE:			
paraquat @ 0.5 – 1.0 lb/A	Gramoxone Inteon @ 2–4 pt/A	Annual broadleaf weeds and grasses; top kill and suppression of perennials in the interspaces around base of bushes or vines	Apply as a directed spray before emergence of new canes or shoots. Apply in water at 50 GPA. Add an approved nonionic surfactant at 1-2 pt/100 gal spray. Apply as a coarse directed spray to avoid drift injury from the fine spray mist.

FRUIT and NUT CROPS

CITRUS

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
bromacil @ 1.6-4.8 lbs/A + diuron @ 1.6-4.8 lbs/A	Krovar I DF @ 2-6 lb/A Trees 3 years old and older: 2-4 lb/A on light soil 4-6 lb/A on heavy soil Make two applications (spring & summer) to control perennial weeds: 2 lbs/A on coarse soils 3 lbs/A on fine soils Use 2-4 lb/A on trees 1-3 years old	Most annual weeds & perennials such as johnsongrass and bermudagrass	Apply at late winter, early spring, shortly before weeds emerge. Spray on bare ground. Apply with a properly calibrated fixed boom power sprayer as a band or broadcast treatment beneath and/or between trees. Use a minimum of 30 gal/A. Avoid overlapping, and shut off spray boom while starting, turning, slowing, or stopping or injury to trees may result. Continuous agitation in the spray tank is required to keep the material in suspension. Best results are obtained if treatment is made to moist soil, or moisture is supplied within two weeks after application. Use higher rates for maximum suppression of perennials. NOTE: Avoid contact with fruit and foliage. Temporary yellowing of citrus leaves may occur following treatment. Because injury to citrus trees may result, do not use on soils low in organic matter (less than 1%), poorly drained soils, gravelly soils, nor thinly covered or exposed subsoils. Do not treat diseased trees such as those with root rot. Do not use in citrus groves interplanted with other trees or desirable plants or in home citrus plantings or in areas where roots of valuable plants or trees may grow into the treated soil.
bromacil @ 1.6-4.6 lb/A	Hyvar X @ 4-5 lbs/A on light soils 5-6 lbs/A on medium soils 6-8 lbs/A on heavy soils If two applications (spring and summer) apply at least 60 days apart at 3-4 lbs/A. Use 3/3 lb/A on established trees established 1-3 years old	Annual grasses, broadleaf weeds, perennial weeds and sedges	Apply on grapefruit, kumquat, lemon, lime, orange, tangelo, tangerine or satsuma as a single preemergence treatment in late winter, early spring. Apply just before weed growth to bare ground. Two applications required to control perennial weeds. Hyvar is toxic to many trees and plants. Consult label before use. Apply with a properly calibrated fixed-boom sprayer as a band treatment beneath the trees. Use a minimum of 30 gallons/A to obtain uniform coverage. Continuous agitation in the spray tank is required to keep the material in suspension. NOTE: Avoid contact with fruit and foliage. Temporary yellowing of citrus leaves may occur following treatment. Because injury to citrus trees may result, do not use on soils low in organic matter (less than 1%), poorly drained soils, gravelly soils, nor thinly covered or exposed subsoils. Do not treat diseased trees.

FRUIT and NUT CROPS

CITRUS

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE: continued			
oxyfluorfen @ 1.5 lb/A	Galigan 2E, Goal 2 XL @ 6 pts/A Apply with NIS @ 2 pts/100 gal	Broadleaf weeds	Apply on grapefruit, kumquat, lemon, lime, orange, tangelo, tangerine or satsuma only after foliage has fully hardened off. Non-bearing trees. Do not apply during periods of new foliage growth. Use a low pressure sprayer and direct at base of plant. Avoid spray contact on foliage. Use 40 gals water/A for PRE applications and 40 to 100 gals for Post applications. Do not apply more than 16 pts Goal in one year. Check label for approved tank-mixes with other herbicides.
POSTEMERGENCE:			
paraquat @ 0.64-1.0 lbs/A	Gramoxone Inteon @ 2-4 pts/A Apply with NIS @ 1-2pt/100gal or COC @ 1 gal/100 gal Pump up sprayer: 0.5-1 oz/gal Gramoxone + 0.33 0.66oz NIS/gal)	Annual grasses & broadleaf weeds and grasses; top kill and suppression of perennials	Apply to emerged weeds when they are small (1-6" in height). Apply in 30 gal water. Do not allow spray to contact green stems, fruit or foliage because injury may result. Do not spray under windy conditions. Use a shield for young trees. Do not allow animals to graze treated areas. Do not apply this product through any type of irrigation system. Check label for tankmixes with other herbicides.
carfentrazone @ 0.008-0.025/A	Aim 2EC @ 0.5-2.0 oz/A Apply with COC @ 1 gal/100 gal or NIS @ 2 pts/100 gal	Broadleaf weeds, bristly mallow.	Apply on grapefruit, kumquat, lemon, lime, orange, tangelo, tangerine or satsuma to control broadleaves between rows. Apply to actively growing weeds up to 4 inches tall and rosettes less than 3 inches across. Does not control grasses. Apply with hooded sprayer to protect crop. Extreme caution must be used during applications when desirable fruit and/or foliage are present in order to avoid fruit spotting and/or leaf necrosis. Do not allow spray mist of Aim EC to come in contact with green stem tissue, foliage, blooms or fruit. On seedling or newly transplanted trees do not allow spray to contact green bark of trunk area. Coverage is essential for satisfactory performance. Can be tank mixed with other registered herbicides. Do not apply more than 7.9 oz/A/season. 3 day pre-harvest limit.
sethoxydim @ 0.28-0.47/A	Poast 1.5 EC @ 1.5-2.5 pt/A Apply with COC @ 2 pt/A Pump up sprayer: 1.3 oz/gal Poast + 1.3 oz/gal COC	Annual and perennial grasses	Apply postemergence on grapefruit, kumquat, lemon, lime, orange, tangelo, tangerine or satsuma . Check label for maximum weed height and rates. Bearing and non bearing trees. 15 days to harvest. Apply in 10-20 gallons water per acre with 40-60 psi. Direct away from foliage and fruit. A slight leaf speckling or burn can occur.

FRUIT and NUT CROPS

CITRUS

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
POSTEMERGENCE: continued glyphosate ¹ @ 0.5-5 lb/A	4L formulations: @ 1-3 pt/A on annual weeds 4-10 pt/A on perennial weeds 5.5L formulations: 0.75-2 pt/A on annual weeds 3-7 pt/A on perennial weeds	Most emerged annual & perennial grass and broadleaf weeds	In grapefruit, kumquat, lemon, lime, orange, tangelo, tangerine or satsuma apply to actively growing weeds at the recommended growth stage for each species. Recommended for established groves (See label instructions). Provides top kill plus destruction of roots, rhizomes, etc. Not a residual herbicide. Follow with a label-approved program for effective annual and perennial seasonlong weed control. Spray may come in contact with brown bark area of trunk without injury. Do not spray green bark. Do not allow spray to contact foliage of tree. Avoid contact with root suckers or water sprouts growing at base of tree. Do not mow or till prior to treatment.

FRUIT and NUT CROPS
GRAPES (Muscadine and Bunch)

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
diuron @ 1.6-4 lbs/A	Diuron 4L @ 1.6-4 qt/A Karmex DF, Diuron 80 DF @ 2-5 lbs/A	Annual weeds	Apply only under vines established 3 years in the spring before annual weeds emerge. DO NOT apply to vines with trunks less 1.5" diameter. DO NOT use on soils with less than 1% organic matter. Severe injury may occur if heavy rainfall or more than 1" of irrigation water follows treatment.
oxyfluorfen @ 1.2-2 lbs/A	Goal 2XL, Galigan @ 5-6 pts/A Goal Tender @ 2.5 -4.0 pts/A	Preemergence control of broadleaf and some grass weeds. Provides burndown of young emerged weeds.	DORMANT SEASON APPLICATION ONLY, apply prior to bud swell or after vines have initiated dormancy in the fall. Use in minimum of 20 gallons of water per acre or 40 gallons if weeds are present. Vines must be on trellis wire a minimum of 3 feet from soil surface.
simazine @ 2-4.8 lbs/A	Princep Caliper 90, Simazine 90 DF @ 2.2-5.3 lbs/A Princep 4L, Simazine 4L @ 1.6-4 qts/A	Annual grasses and certain broadleaves	Use only under vines established for 3 years. Apply in fall or spring. If applied in the fall, follow with a different preemergence herbicide in spring. DO NOT use on sandy, sandy loam, or gravelly soils.
oryzalin @ 2-6 lbs/A	Surflan A.S., Oryzalin 4 A.S. @ 2-6 qts/A	Annual grasses and certain annual broadleaf weeds	Apply in spring to bearing vines. DO NOT apply to newly established vines until soil is settled. Existing weed growth should be destroyed by shallow tillage or other treatment. Irrigation needed (1 1/2") within 21 days to move Surflan into weed germination zone.
POSTEMERGENCE:			
fluazifop @ 0.19-.37 lbs/A	Fusilade DX @ 12-24 oz/A Adjuvant required; see label	Perennial and annual grasses	Apply at postemergence to NONBEARING vines not harvested within 1 year. Use flat fan nozzle and do not contact foliage.
sethoxydim @ 0.3-0.5 lbs/A	Poast @ 1.5-2.5 pts/A Always use nonphytotoxic oil concentrate.	Annual grasses, some perennial grasses	Apply at postemergence to bearing and non-bearing vines. Use flat fan nozzle tips. Use low rate on annual grasses up to 6" tall; high rate on annual grasses up to 12" tall.
DIRECTED POSTEMERGENCE:			
paraquat @ 0.64-1.0 lbs/A	Gramoxone Inteon @ 2.5-4 pt/A Add an approved nonionic surfactant at 1-2 pt/100 gal. spray	Annual grasses & broadleaf weeds; top kill and suppression of perennials in the interspaces and around base of bushes or vines	Apply when grasses are succulent and new growth is from 1-6" high. Apply as directed spray in 30 gal water. For mature, woody weeds, late germinating weeds and perennials, retreatment or spot treatment may be necessary. Do not allow spray to contact green stems, fruit or foliage. Do not spray under windy conditions and use shield for young vines. Do not allow animals to graze on treated areas.

FRUIT and NUT CROPS
GRAPES (Muscadine and Bunch)

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
DIRECTED POSTEMERGENCE: continued			
glyphosate @ 1-5 lbs/A	Glyfos, Honcho, Glyphyogan and various generic 4lb/gal formulations @ 1-5 qts/A. Various Roundup formulations, See label for rates.	Annual and perennial weeds	Apply at post emergence. Use lower rates for easier to control annual easier to control weeds and higher rates on harder to control weeds. DO NOT allow spray to contact foliage or green bark of canes. Allow a minimum of 14 days between last application and harvest. Wiper applicator: 33% solution can be used.

FRUIT and NUT CROPS

MAYHAWS

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE			
oxyfluorfen @ 1.25-2.0 lb/A	Goal 2XL, Galigan @ 5-6 pt/A GoalTender @ 2.5-4 pt/A	Preemergence control of broadleaf and some grass weeds. Provides burndown of young, emerged weeds.	Dormant season application only , apply prior to bud swell or after trees have initiated dormancy in the fall. Use in minimum of 20 gallons of water per acre or 40 gallons if weeds have emerged.
oryzalin @ 2-6 lb/A	Surflan A.S., Oryzalin 4 A.S. @ 2.0-6.0 qts/A	Annual grasses and certain annual broadleaf weeds	Apply before annual weeds emerge. Can be applied to new plantings after soil has settled. Use low rate for short-term control; high rate for long-term control. Apply in strip in tree rows; do not apply to row middles or drive rows.
DIRECTED POSTEMERGENCE:			
glyphosate ¹ @ 1-5 lb/A	Glyfos, Honcho, Glyphyogan and other 4 lb/gal formulations @ 1-5 qt/A. Various Roundup formulations, See label for rates.	Annual and perennial weeds	For use on bearing and non-bearing trees. DO NOT allow spray to contact green shoots or foliage. Allow a minimum of 1 day between application and harvest. Use lower rates for easier to kill annuals and higher rates for harder to kill weeds.

FRUIT and NUT CROPS

PEACHES

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
diuron @ 1.6-2.2 lbs/A	Diuron 4L @ 1.6-2.2 qt/A Karmex DF, Diuron DF @ 2-2.75 lb/A	Annual weeds	Use only where peach trees have been established for at least 3 years. Apply as directed spray, avoiding contact of fruit and foliage with spray. Do not use on sand, loamy sand, gravelly soils, or exposed subsoils. Do not use on soils with less than 1% organic matter. Can also be tank-mixed with other soil active herbicides for improved control of a wider range of weed species.
terbacil @ 1.6-3.2 lbs/A	Sinbar 80W @ 2-4 lbs/A	Annual weeds	Apply in the spring. Use Sinbar only under trees established in the orchard for at least 3 years. Some chlorosis of weakened trees occurs. Control of established perennial weeds may be erratic. DO NOT use on sandy, sandy loam, gravelly soils, on eroded areas where subsoil tree roots are exposed, or on any soil with less than 1% organic matter.
diuron @ 0.8-1.6 lbs/A + terbacil @ 0.08-1.6 lbs/A	Karmex DF @ 1.0-2.0 lbs/A + Sinbar 80W @ 1.0-2.0 lb/A	Annual weeds	Apply in spring or after harvest in the fall before weeds emerge or less than 2" tall. Use this tank-mix only under trees established for at least 2 years. The combination provides improved weed control over Karmex or Sinbar alone. DO NOT USE on sandy, loamy, or gravelly soils.
norflurazon @ 2.0-3.9 lb/A	Solicam DF @ 2.5-5.0 lb/A	Annual grasses and broadleaf weeds	Apply prior to weed seed germination and rainfall or irrigation is likely within 4 weeks of application. Apply post-harvest in the fall or early spring. Delay application to newly established trees until 18 months after planting if west of the Mississippi River, and 6 months if east of the river. Do not apply within 60 days of harvest. Use the low rate on coarse-textured soils, high rate on fine-textured soils. Make one application per year. DO NOT graze treated areas.
oryzalin @ 2-6 lbs/A	Surflan A.S., Oryzalin 4 A.S. @ 2.0-6.0 qts/A	Annual grasses and certain annual broadleaf weeds	Apply before annual weeds emerge. Can be applied to new plantings after soil has settled. Apply in strip in tree rows; do not apply to row middles or drive rows.
simazine @ 2.0-4.0 lbs/A	Princep Caliber 90 @ 2.2-4.4 lbs/A Princep 4L, Simazine 4L @ 1.6-4 qts/A	Annual grasses and certain broadleaf weeds	Use simazine ONLY under trees established in the orchard for 1 year. Apply in fall or spring. Fall application controls a broader weed spectrum than a spring application. If applied in the fall, follow a different preemergence herbicide in the spring. Use the low rate on coarse-textured soils. Some chlorosis may be observed in areas where little or no topsoil is present. DO NOT apply to gravelly, sandy or sandy loam soils.

FRUIT and NUT CROPS

PEACHES

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREMERGENCE: conitnued			
oxyfluorfen @ 1.25-2 lb/A	Goal 2XL @ 5-8 pts/A	Preemergence control of broadleaf and some grass weeds. Provides burndown of young emerged weeds.	Apply as a directed spray to the soil and the base of trees. For additional postemergence weed control, Goal 2XL may be tank mixed with Simazine or Surflan. When tank-mixing, always read and follow all product labels. APPLY ONLY TO DORMANT TREES prior to bud swell.
POSTEMERGENCE:			
clethodim @ 0.09-0.13 lb/A	Select @ 6-8 fl oz./A	Annual and perennial grasses	Apply before grasses exceed height limitations. Always add an adjuvant or crop oil concentrate to spray. Refer to label. Apply to non-bearing plants only
DIRECTED POSTEMERGENCE:			
paraquat @ 0.64-1.0 lb/A	Gramoxone Inteon @ 2.5-4 pt/A	Annual grasses & broadleaf weeds; top kill and suppression of perennials	Apply as a directed spray when weeds and grasses are succulent and new growth is from 1-6" high. Apply in water at 30-150 GPA. For mature, woody weeds, green suckers, late germinating weeds, re-treatment or spot treatment may be necessary. Do not allow spray to contact green stems, fruit or foliage. Do not spray under windy conditions. Use a shield for young trees. Do not harvest within 14 days of application. No more than 3 applications per year may be used.
fluazifop @ 0.19-0.37 lb/A	Fusilade DX @ 12-24 oz/A Apply with COC @ 1 qt/25 gal or NIS @ 0.5 pt/25 ga	Perennial and annual grasses	Apply to trees that will not be harvested within 14 days of application. Apply as a directed spray using 25 gal water/acre 30 to 60 psi pressure. Use flat fan nozzle tips and do not contact tree foliage.
sethoxydim @ 0.3-0.5 lbs/A	Poast @ 1.0-2.5 pts/A Apply with a non phytotoxic oil concentrate @ 1 qt/A	Annual and perennial grasses	Apply as a directed spray using 20 to 50 gal water/A at 40-60 psi pressure. Use flat fan nozzle tips. Use low rate on annual grasses up to 6 inches tall, and high rate on annual grasses up to 12 inches tall. Do not apply within 25 days of harvest.

FRUIT and NUT CROPS

PECANS

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
PREEMERGENCE:			
oxyfluorfen @ 1.25 – 2.0 lb/A	Goal 2XL, Galigan @ 5-6 pt/A GoalTender @ 2.5 – 4 pt/A	Preemergence control of broadleaf and some grass weeds. Provides burndown of young, emerged weeds.	Dormant season application, apply prior to bud swell or after trees have initiated dormancy in the fall and after harvest. Use in minimum of 40 gallon of water per acre.
norflurazon @ 2-3.9 lbs/A	Solicam DF @ 2.5-5.0 lb/A	Annual grasses and broadleaf weeds	Apply at preemergence. Apply only to trees planted at least 18 months west of Mississippi River or 6 months east of Mississippi River. Apply post-harvest in the fall or early spring. Fall application controls a broader weed spectrum than spring. Use the low rate on coarse-textured soils, high rate on fine-textured soils. DO NOT graze treated areas.
oryzalin @ 2-6 lbs/A	Surflan A.S., Oryzalin 4 A.S. @ 2.0-6.0 qts/A	Annual grasses & broadleaf weeds	Use for control of annual grasses and certain broadleaf weeds. Use low rate for shorter control (2-4 mos.); high rate for long term control (6-8 mos.). DO NOT apply to newly-planted trees until soil has settled and no cracks are present. Apply before annual weeds emerge in the spring. Existing weed growth should be destroyed by shallow tillage or by a tank mixture with paraquat (1-2 qts/A + 8 oz. nonionic surfactant/100 gal. of spray solution) or Roundup (1-5 qts/A + surfactant).
POSTEMERGENCE:			
clethodim @ 0.09-0.13 lb/A	Select @ 6-8 fl oz/A Always add an adjuvant or crop oil concentrate to spray, see label.	Annual and perennial grasses	Apply before grasses exceed height limitations. Apply to non-bearing plants only. Do not graze treated areas.
DIRECTED POSTEMERGENCE:			
fluazifop @ 0.19-0.37 lbs/A	Fusilade 2000 @ 2-3 pts/A Always use a non phytotoxic crop oil concentrate or a nonionic surfactant.	Perennial and annual grasses	Apply as a directed spray using 25 gal/water/acre and 30 to 60 psi pressure. Use flat fan nozzle tips and DO NOT contact pecan tree foliage. Do not apply if nuts are on the ground.
paraquat @ 0.64-1.0 lbs/A	Gramoxone Inteon @ 2.5-4 pt/A Add an approved nonionic surfactant at 1-2 pt/100 gal/spray.	Annual grasses & broadleaf weeds; top kill and suppression of perennials.	Apply as directed spray when weeds are young and succulent (16" tall). Mature weeds are less susceptible. Apply in 30 gallons of water. Thorough weed coverage; is essential repeat as necessary. Spray drift will cause injury. Do not allow spray to contact foliage, fruit, or stems. Do not graze livestock on treated areas.
sethoxydim @ 0.3-0.5 lb/A	Poast @ 1.5-2.5 pts/A Always use a non-phytotoxic oil concentrate (1 qt/A).	Annual and perennial grasses	Apply as directed spray to non-bearing trees that will not be harvested within 1 year of application. Apply in water at 20-50 gal GPA using 40-60 PSI. Use flat fan nozzle tips. Use low rate on grasses up to 6 inches tall, and high rate on grasses up to 12 inches tall.

FRUIT and NUT CROPS

PECANS

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
DIRECTED POSTEMERGENCE: continued			
glyphosate ¹ @ 1-5 lbs/A	Glyfos, Honcho, Glyphyogan and other 4 lb/gal formulations @ 1-5 qt/A.	Annual and perennial weeds	Apply as a directed spray; DO NOT allow spray to contact green shoots or foliage. Allow a minimum of 3 days between application and harvest. Use lower rates for easier to control annual weeds and higher rates for harder to control weeds.
CHEMICAL MOWING:			
glyphosate See label	Roundup and various generic formulations of glyphosate. See Label	Vegetation and bahiagrass seed head suppression.	Apply 1 to 2 weeks after full greening of bahiagrass. For suppression in pecan row middles. Applications must be made prior to Seed head emergence. To extend period of growth suppression, apply up to two sequential applications at 45-day intervals. Sequential applications must be made prior to seedhead emergence.

FOOT NOTES – ALL FRUIT CROPS

¹ Refer to “Appendix A” for glyphosate formulations and required surfactants for various glyphosate products.