

Crop, Situation, and Active Chemical Per Broadcast Acre	Weeds Controlled	Formulated Material Per 1,000 Square Feet	Time of Application	Method of Application and Precautions
Christmas Trees Preemergence				
hexazinone @ 0.5 to 1.5 lb	A broad spectrum of grass and broadleaf weeds.	Velpar L 1.5 to 3 oz.	Apply as broadcast spray in the spring prior to conifer bud break. If application is made after bud break, use directional spray equipment and avoid contact with conifer foliage or injury may result. Has preemergence and postemergence activity.	Limit first use to a small trial area. Do not apply to trees under stress. Do not add surfactant if applied over the top of trees. Do not use on poorly drained soils. Do not use on any soil with less than 1% organic matter. Do not use on loamy sand or sandy loam soils with less than 2% organic matter. Apply only to transplant stock that is two-years-old or more. Wait at least 2 months after transplanting before applying, then apply only if rainfall has settled the soil around the base of the transplants. The onset of disease or insect problems, winter stress, or heavy rains soon after application may result in injury.
pendimethalin @ 2 to 4 lb/A	Annual grasses and some annual broadleaf weeds.	Pendulum 3.3 EC 1.75 to 3.5 oz.	Preemergence to weeds.	Can be applied preemergence to weeds over established Virginia pine and other Christmas tree species listed on the product label. Not effective on established weeds, but may be used in conjunction with herbicides registered for postemergence use in Christmas trees. Do not apply to Christmas tree seed or nursery beds.
oxyfluorfen @ 0.4 to 2 lb	Many annual grasses and broadleaf weeds, including morningglories.	Goal 2 XL 1 to 4 pt/A.	Apply preemergence or early postemergence. Postemergence applications should be made prior to bud break or after foliage has had an opportunity to harden-off. Postemergence applications should be made when weeds are less than 4 inches tall. Two applications will be necessary for full season control. Postemergence application to grasses should not be made later than the 2-leaf stage, with the addition of 0.25% nonionic surfactant.	Adding 0.25% nonionic surfactant enhances Goal activity on emerged weeds. Conifer transplants should be dormant when Goal is applied over the to Do not irrigate for 24 hours after application.
oryzalin @ 2 to 4 lb/A	Annual grasses and some small-seeded broadleaves.	Surflan 4 AS 1.5 to 3.0 oz A.S.	Apply before weeds emerge.	Apply to established plants. May be tank mixed with Roundu
simazine @ 1 to 3 lb/A	Annual broadleaf weeds and some grasses.	Princep Caliber 90 0.4 to 1.2 oz.	Spring or fall before weeds emerge.	Do not apply more than once per year. Do not apply to Christmas trees less than 3 years old. Do not apply unless trees have been planted in the field for one year. Tank mix with Surflan for better grass control.

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Christmas Trees [cont.] Postemergence glyphosate annual weeds 1 lb/A perennial weeds 2 to 5 lb/A	Most annual and perennial broadleaves and grasses	Glyphosate (4 lb/gal formulations) See table on page 23 for specific glyphosate conversions and surfactants. Annual weeds – 0.75 fl oz. Perennial weeds – 1.5 to 3.75 fl oz.	When weeds are actively growing and adequate soil moisture is present. Do not spray drought stressed or dust coated weeds. Roundup can be used as a preplant treatment to kill existing weeds.	Apply as a directed or shielded spray to thoroughly cover weeds. Do not allow spray to contact foliage or green stems. No residual control.
sethoxydim @ 0.3 to 0.5 lb/A	Many annual and perennial grasses including johnsongrass, bermudagrass, and tall fescue. Poast does not control broadleaf weeds or sedges.	Poast 1.5 EC 0.5 to 0.9 fl oz. For spot treatment add 1.25 oz Poast and 1.25 oz oil concentrate to 1 gallon of water.	Apply postemergence to actively growing grasses when they are in the stage of growth recommended on the label. Do not apply to grasses under stress.	Add 1 quart per acre of nonphytotoxic oil concentrate. Avoid contact with any desirable grasses. Clean sprayer thoroughly after use. May be applied over the top of Virginia pine Christmas trees.
sethoxydim + oxyfluorfen @ 0.2 to 0.5 + 0.2 to 0.5 lb/A	Annual and perennial grasses and broadleaf weeds.	Poast 1.5 EC + Goal 1.6 EC 0.5 to 1 oz + 0.5 to 1 oz.	Postemergence. Consult label for the correct timing for the target weed(s). Apply when weeds are actively growing and before conifer bud break or after conifer foliage has had an opportunity to harden-off. Broadleaf weeds must be within the height range indicated on the Goal label.	Do not apply to conifer seedlings less than 10 months old. Do not spot treat. May be applied over-the-top of the trees. Do not apply when temperatures exceed 90°F. Two to three applications may be needed for season long control. Goal may reduce Poast grass control.
fluazifop-P @ 0.5 lb/A	Many annual and perennial grasses including johnsongrass and bermudagrass. Fusilade does not control broadleaf weeds or sedges.	Fusilade DX 2 EC For spot treatment add 1 tbsp per gal of water plus 2 tsp nonionic surfactant. Spray to wet, not to runoff.	Apply postemergence to actively growing grasses when they are in the stage of growth recommended on the label. Do not apply to grasses under stress.	Add 0.5% nonionic surfactant containing at least 75% surface active agent. Avoid contact with desirable grasses. Clean sprayer thoroughly after use. May be applied over the top of Virginia pine Christmas trees.
clethodim @ 0.09 to 0.25 lb/A	Annual and perennial grasses.	Envoy 0.94 EC 13 to 34 oz/A.	Postemergence.	Apply 1.0% crop oil concentrate. Apply to actively growing grasses. Repeat applications may be needed for perennial grass control. Good on annual bluegrass and broadleaf signalgrass.
clopyralid @ 0.094 to 0.25 lb/A	Broadleaf weeds.	Stinger 3E 0.09 to 0.24 oz of 3E.	Apply to small actively growing broadleaf weeds.	May be applied over top of scotch and white pine. Do not add surfactant or crop oil. Trial use on a small area is recommended.