

Table 7. Herbicides for control of Japanese and Old World Climbing Fern.

Method	Herbicide	Treatment
Backpack Foliar		This approach targets scattered individual patches of climbing fern. Herbicide may be sprayed on trellising vines to about eight feet in height. Care must be taken to direct the spray only to target vegetation.
	Accord XRT	Spray the leaves with a 2% solution of Accord XRT (or other glyphosate product) from July to October. Follow up with annual applications as needed to control new plants that germinate from spores.
	Escort XP	Spray 1 to 2 ounces (mass) Escort XP product per acre. Mix 0.3 to 0.6 dry ounces Escort per 3 gallons of water. Add 0.25% non-ionic surfactant.

¹ Miller et al. 2010
² UF/IFAS Center for Aquatic Invasive Plants

Table 8. Herbicide treatments for control of cogongrass.

Method	Herbicide	Treatment
Broadcast Foliar		This approach is for large infestations. With the exception of Fusilade, which primarily controls grasses, treatments are non-selective; all vegetation will be killed or severely affected. Calibrate broadcast spray equipment to deliver 30 to 50 gallons total spray solution per acre to the grass canopy. Re-treatment to regrowth of cogongrass should be planned for several years.
	Arsenal AC+ Accord XRT	Apply 32 oz product Arsenal AC (or 64 oz Chopper) plus 2.5 qts Accord XRT product per acre.
	Fusilade	Treat with 0.5 qt. per acre herbicide plus label-recommended surfactant. ¹
Backpack Foliar (spot treatment)		This approach is for new infestations and small patches.
	Arsenal AC or Chopper	Treat with 1% Arsenal or 2% Chopper solution with 0.25 to 1% non-ionic surfactant or 1% methylated seed oil (MSO) in September or October. Mowing, burning, and/or disking in the spring prior to treatment can enhance the effectiveness of herbicide treatments. ^{2,3} ⁴ Imazapyr, the active ingredient in both Chopper and Arsenal, is a persistent, soil-active herbicide that will kill or severely damage hardwood trees or shrubs, although pines are tolerant. In hardwood stands, the use of Fusilade or Accord is preferred.
	Accord XRtII	Treat with a 3% solution of the product formulation when the plants are green and growing. Plant absorption of glyphosate products can be enhanced with addition of 1% methylated seed oil.

¹ Langland and Stocker 1997
² Miller 1999
³ Jose et al. 2002
⁴ Miller 2003

Table 9. Herbicides for control of non-native grasses in reforestation.

Method	Herbicide	Treatment
Broadcast Foliar at site preparation prior to planting		This approach uses a broad-spectrum herbicide to control grasses and other weeds prior to planting
	Accord XRT	Treat with 2.5 qts Accord per acre using 10 to 20 gallons of water in late summer before planting. Then follow up after planting pines with a tank mixture of Arsenal AC + Oust XP (see below).
Broadcast or Banded over pines after planting		Using a calibrated sprayer, apply 4 oz Arsenal AC plus 2 oz Oust XP over pines in early spring (late March–April) but at least one month after planting to ensure pine vigor and better herbicide tolerance. Do not add surfactants. Where planted rows are present, herbicides may be applied in a 6-ft-wide band centered on the row.