

Weed Management in Clover¹

J. A. Ferrell and B. A. Sellers²

Table 1. Weed Management in Clover.

Trade Name and Rate of Commercial Product Per Acre	Common Name and Rate in Pounds of Active Ingredient Per Acre	Remarks
Preplant Incorporated		
Eptam 3.5 pt	EPTC	For winter annual grass and some broadleaf weed control, incorporate 2 to 3 inches deep before planting. Do not use on white Dutch clover. Do not use if a grass or grain crop is to be planted with the clover.
Balan 60DF 2 lb	benefin	May be used on alsike, ladino, and red clover. For winter annual grass and some broadleaf weed control, incorporate 2 to 3 inches deep before planting. Do not use if a grass or grain crop is to be planted with the clover.
Postemergence - Seedling Clovers		
Kerb 50W 1 to 1.5 lb	pronamide	For preemergence control of winter annual weeds, spray prior to weed emergence in November or December. Do not graze or cut for hay for 120 days after treatment. In fall-seeded clovers, applications should be made after clover has reached the first trifoliate leaf stage. In spring seedings, applications should be delayed until the following fall or early winter.

1. This document is SS-AGR-235, one of a series of the Agronomy Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Published November 2005. Revised October 2008. Please visit the EDIS Website at <http://edis.ifas.ufl.edu>.
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Trade Name and Rate of Commercial Product Per Acre	Common Name and Rate in Pounds of Active Ingredient Per Acre	Remarks
Poast 1 to 2.5 pt	sethoxydim	Apply with crop oil concentrate at 2.0 pts./acre to control annual and perennial grasses. Use the high rate for johnsongrass and bermudagrass. Do not apply to grasses growing under drought-stressed conditions. Apply to annual grasses less than 8 inches tall. Do not apply Poast within 7 days of feeding, grazing, or harvesting undried forage, or within 14 days of cutting for dry hay.
Butyrac 200 2.3 qts or Butoxone 4.3 to 6.5 pt	2,4-DB	For postemergence control of winter or summer annual broadleaf weeds, spray emerged weeds less than 3 inches tall. 2,4-DB will not control wild radish, chickweed, or mustards. Do not graze or cut for hay for 60 days after application. Do not apply to clovers grown for seed. Rainfall or irrigation within 7 to 10 days after treatment can cause injury. DO NOT add wetting agents or surfactants to the spray mix. Apply after clover is in the 2 to 4 trifoliate leaf stage.
Pursuit 70DG 1.08 to 2.16 fl oz	imazethapyr	Apply to seedling clover with a minimum of two trifoliate leaves and when weeds are 1 to 3 inches tall or before rosette forming weeds exceed 3 inches in diameter. Pursuit requires a 1 hour rainfree period. Pursuit may cause a temporary reduction in height or slight leaf yellowing. DO NOT feed, graze, or harvest for 30 days after application. A maximum total of 2.16 oz./A of Pursuit may be applied per year. Add a nonionic surfactant at 0.25% v/v or a crop oil concentrate at 1.25% v/v to the spray solution. If replanting is necessary in a field treated with Pursuit, do not plant for 4 months following the application of Pursuit. Do not apply more than 1.44 ozs. during the last year of the stand.
Raptor 4.0 to 6.0 fl oz	imazamox	Apply to seedling clover with a minimum of two trifoliate leaves and when weeds are 1 to 3 inches tall. Raptor requires a 1 hour rainfree period. A temporary growth reduction may occur after application. DO NOT feed, graze, or harvest for 20 days after application. A maximum total of 6.0 fl. ozs./acre may be applied per season. Add a nonionic surfactant at 0.25% v/v or a crop oil concentrate at 1.0 to 2.0% v/v to the spray solution. If replanting is necessary in a field treated with Raptor, do not plant for 4 months following the application of Raptor.
Postemergence - Established Clover		
Poast 1 to 2.5 pt	sethoxydim	Apply with crop oil concentrate at 2.0 pts./acre to control annual and perennial grasses. Use the high rate for johnsongrass and bermudagrass. Do not apply to grasses growing under drought-stressed conditions. Apply to annual grasses less than 8 inches tall. Do not apply Poast within 7 days of feeding, grazing, or harvesting undried forage, or within 14 days of cutting for dry hay.
Kerb 50W 1 to 1.5 lb	pronamide	Controls winter annual grasses and some broadleaf weeds in clovers, birdsfoot trefoil and crown vetch. Apply from November through February. DO NOT graze or harvest for hay for 120 days after application. KERB is a restricted use herbicide.

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Trade Name and Rate of Commercial Product Per Acre	Common Name and Rate in Pounds of Active Ingredient Per Acre	Remarks
Pursuit 70DG 1.08 to 2.16 fl ozs	imazethapyr	Apply to established clover in the fall, or in the spring to dormant or semi-dormant alfalfa. Spring treatments should be made before excessive clover growth (less than 3 inches of new growth) to reduce spray interference. Apply when weeds are 1 to 3 inches tall or before rosette forming weeds exceed 3 inches in diameter. DO NOT feed, graze, or harvest alfalfa for 30 days after application. A maximum total of 2.16 oz./A of Pursuit may be applied per year. Add a nonionic surfactant at 0.25% v/v or a crop oil concentrate at 1.25% v/v to the spray solution. If replanting is necessary in a field treated with Pursuit, do not plant for 4 months following the application of Pursuit. Do not apply more than 1.44 ozs. during the last year of the stand.
Raptor 4.0 to 6.0 fl ozs	imazamox	Apply to established clover in the fall, or in the spring to dormant or semi-dormant alfalfa. Spring treatments should be made before excessive clover growth (less than 3 inches of new growth) to reduce spray interference. Apply when weeds are 1 to 3 inches tall or before rosette forming weeds exceed 3 inches in diameter. Raptor requires a 1 hour rainfree period. A temporary growth reduction may occur after application. DO NOT feed, graze, or harvest for 20 days after application. A maximum total of 6.0 fl. ozs./acre may be applied per season. Add a nonionic surfactant at 0.25% v/v or a crop oil concentrate at 1.0 to 2.0% v/v to the spray solution. If replanting is necessary in a field treated with Raptor, do not plant for 4 months following the application of Raptor.

Table 2. Estimated effectiveness of recommended herbicides on common weeds in Florida Clover.

Time of Application	PPI	PPI	PRE	POT	POT
	Balan	EPTC - Eptam	Kerb	Poast or Select	Pursuit or Raptor
bahiagrass	P	P	P	F	--
bermuda grass	P	P	P	F-G	P
bitter sneezeweed	P	P	P	P	--
blackberry	P	P	P	P	--
bracken fern	P	P	P	P	--
briars (Smilax)	P	P	P	P	--
broomsedge	P	P	P	P	--
bulrush	P	P	P	P	--
buttercup	P	P	P	P	--
chickweed	F	E	G	P	E
crabgrass	E	G	F	G-E	F
cudweed	P	P	P	P	--
curly dock	P	P	P	P	F
dallisgrass	P	P	P	P	--
dandelion	P	G	P	P	--

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Time of Application	PPI	PPI	PRE	POT	POT
	Balan	EPTC - Eptam	Kerb	Poast or Select	Pursuit or Raptor
dodder	P	P	E	P	--
dogfennel	P	P	P	P	--
evening primrose	F	F-G	P	P	--
foxtails	G	G	P	E	G
gallberry	P	P	P	P	--
goldenrod	P	P	P	P	--
henbit	F	G	P	P	E
honeysuckle	P	P	P	P	--
horsenettle	P	P	P	P	--
horseweed	P	P	P	P	--
Italian ryegrass	G	E	G	E	P
johnson grass	P	P	P	G	P
kudzu	P	P	P	P	--
little barley	G	G	E	F	--
mayweed	--	--	P	P	--
nettle, stinging	P	P	P	P	--
nutsedge	P	F	P	P	F
palmetto	P	P	P	P	--
perilla mint	P	P	--	P	--
persimmon	P	P	P	P	--
pigweed species	G	G	--	P	G
pokeberry	P	P	P	P	--
prickly pear	P	P	P	P	--
ragweed	P	P	P	P	F
red sorrel	P	P	P	P	--
sandbur	E	G	P	G	--
shepherds- purse	P	G	G	P	E
sicklepod	P	F	P	P	--
smutgrass	P	P	P	P	--
swinecress	P	G	F	P	--
Texas panicum	G-E	G	P	E	--
thistles	P	E	P	P	P
tropical soda apple	P	P	P	P	--
vaseygrass	P	P	P	P	--
Virginia pepperweed	P	G	P	P	--
wax myrtle	P	P	P	P	--
wild cherry	P	P	P	P	--
wild garlic	P	P	P	P	--
wild radish	P	P-F	P	P	G-E
wild plum	P	P	P	P	--
wild rose	P	P	P	P	--
wooly croton	P	P	P	P	P

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Time of Application	PPI	PPI	PRE	POT	POT
	Balan	EPTC - Eptam	Kerb	Poast or Select	Pursuit or Raptor
<p>Estimated effectiveness based on rates recommended in this report. Effectiveness may vary depending on factors such as herbicide rate, size of weeds, time of application, soil type, and weather conditions.</p> <p>Weed Control Symbols: E = 90-100% control; G = 80-90% control; F = 60-80% control; P = less than 60% control; -- = insufficient observations.</p> <p>Time of Application Symbols: PPI = preplant incorporated; PRE = preemergence; POT = postemergence over the top.</p>					