# **WEED CONTROL IN TOBACCO**

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## Preplant Incorporated Herbicides for Weed Management in Tobacco

Herbicide	Rate/Ac	re Broadcast	Mode of Action	Preharvest	Restricted
nei biciue	Formulation	Active Ingredient	Mode of Action	Interval	Entry Interval
Command 3ME	2.0-2.67 pt			65 days	12 hours
(clomazone)		0.75-1.0 lb	13		

**Comments:** Apply COMMAND to the soil surface as a broadcast spray and incorporate using shallow tillage (less than 2 inches). Excellent control of prickly sida and annual grasses. Good control of ragweed. See label for other restrictions and drift control measures. COMMAND may persist and cause injury to small grain cover crops, see label for details. COMMAND may be applied up to 7 days after transplanting.

Devrinol 2EC	2.0-4.0 qt			70 days	24 hours
(napropamide)		1.0-2.0 lb	15		

#### Devrinol 50DF 2.0-4.0 lb

**Comments:** Apply DEVRINOL preplant incorporated by shallow disking. Controls pigweed, ragweed and other broadleaf weeds. Use the higher rate for fields with a history of heavy weed infestations. Will not control morningglories. Do not exceed 2.0 lb ai/A DEVRINOL per cropping season. Do not apply DEVRINOL more than once per cropping season.

Prowl H2O 3.8EC (pendimethalin)	2.0 pt	0.95 lb	3	 24 hours
Prowl 3.3E	2.4 pt	0.99 lb		

**Comments:** Apply PROWL broadcast on the soil surface and incorporate up to 60 days before transplanting. Increase rate where weed pressure is heavy. Controls small seeded annual grasses and broadleaf weeds.

Tillam 6E	2.67 qt			 12 hours
(pebulate)		6.0 lb	8	

**Comments:** Apply TILLAM and incorporate immediately to prevent evaporation of TILLAM with a tandem disk set to cut 6" deep. For best results, run the tandem disk in two different directions (cross disk). Drag with a spike tooth harrow or cultipack to help seal TILLAM in soil. Provides good control of most grasses and nutsedge. TILLAM is not persistant in the soil and weeds germinating late in the season will not be controlled.

Tillam 6E (pebulate)	2.67 qt	6.0 lb	8	70 days	12 hours
+	+				
Devrinol 2EC (napropamide)	2.0-4.0 qt	1.0-2.0 lb	15		
Devrinol 50DF/DF-XT	2.0-4.0 lb				

**Comments:** Apply DEVRINOL + TILLAM preplant incorporated by shallow disking. This combination will provide control of nutsedge and annual grasses and broadleaves. Apply up to 3 weeks before transplanting. Do not apply more than 1 gallon/A of DEVRINOL 2EC per season. Do not make more than 1 application of DEVRINOL per season. Use lower rate on coarse-textured soils.

# Pretransplant (Surface Applied) Herbicides for Weed Management in Tobacco

Herbicide	Rate/A	Rate/Acre Broadcast		Preharvest	Restricted
neibicide	Formulation	Active Ingredient	- Mode of Action	Interval	Entry Interval
Spartan 4F	6.0-8.0 fl oz	·			12 hours
(sulfentrazone)		0.19-0.25 lb	14		

**Comments:** Apply SPARTAN 4F to the soil surface following land preparation from 14 days up to 12 hours before transplanting. If beds are formed before transplanting, the top of the beds should be knocked down prior to application of SPARTAN. Sprayer calibration and good agitation are essential with application of SPRATAN. Avoid excessive overlap of spray swaths. Excellent control of morningglory, pigweed, lambsquarters and yellow nutsedge. Do not apply SPARTAN over the top of transplanted tobacco as crop injury may occur. Tank mix with COMMAND or PROWL for improved grass control. Do not apply more than 12 fl oz/A of SPARTAN per 12-month period. Do not apply SPARTAN to soils classified as sands with less than 1.0% organic matter. Do not use SPARTAN in tobacco seeding beds or greenhouses.

Spartan Charge 3.5F	5.7-10.2 fl oz			 12 hours
(carfentrazone		0.016-0.028 lb	14	
+		+		
sulfentrazone)		0.16-0.25 lb	14	

**Comments:** Apply SPARTAN CHARGE to the soil surface following land preparation from 14 days up to 12 hours before transplanting. If beds are formed before transplanting, the top of the beds should be knocked down prior to application of SPARTAN CHARGE. SPARTAN CHARGE will provide postemergence activity on weeds (less than 3 inches in height) present at the time of application. Sprayer calibration and good agitation are essential with application of SPRATAN CHARGE. Avoid excessive overlap of spray swaths. Excellent control of morningglory, pigweeds, lambsquarters, and yellow/purple nutsedge. Do not apply SPARTAN CHARGE over the top of transplanted tobacco as crop injury may occur. Tank mix with COMMAND or PROWL for improved grass control. Do not apply more than 15.2 fl oz/A of SPARTAN CHARGE per 12-month period. Do not apply SPARTAN CHARGE to soils classified as sands with less than 1.0% organic matter.

# At-Transplant Postemergence Broadcast Herbicides for Weed Management in Tobacco

Herbicide	Rate/A	cre Broadcast	Mode of Action	Preharvest	Restricted
nerbleide	Formulation	Active Ingredient	Mode of Action	Interval	Entry Interval
Command 3ME	2.0-2.67 pt			65 days	12 hours
(clomazone)		6.0 lb	13		

**Comments:** Apply COMMAND over-the-top of transplants immediately after setting to provide soil residual control of small seeded annual grasses and broadleaves. Use the higher rate for fields with a history of weed problems. If possible, irrigate with a half inch of water if no rainfall occurs within 3 to 5 days.

Devrinol 50DF/DF-XT	2.0-4.0 lb			70 days	24 hours
(napropamide)		1.0-2.0 lb	15		

Devrinol 2EC 2.0-4.0 qt

**Comments:** Apply DEVRINOL over-the-top of transplants immediately after setting to provide soil residual control of small seeded annual grasses and broadleaves. Use the higher rate for fields with a history of weed problems. If rainfall does not occur within 5 days, shallowly incorporate or irrigate with sufficient water to wet soil to a depth of 2 to 4 inches. Do not apply more than 4 lb DEVRINOL per season.

Herbicide	Rate/A	Rate/Acre Broadcast		Preharvest	Restricted
nerbicide	Formulation	Active Ingredient	Mode of Action	Interval	Entry Interval
Aim 2EC/1.9EW	0.8-1.5 fl oz			6 days	12 hours
(carfentrazone)		0.0125-0.024 lb	14		

### Post-Transplant Postemergence Directed Herbicides for Weed Management in Tobacco

**Comments:** Apply AIM using a shielded or hooded sprayer to weeds that are emerged and actively growing before layby (less than 3 inches in height). Add crop oil concentrate (COC) at 1 gal per 100 gal of spray solution. Coverage is essential for maximum efficacy on target weeds. Do not apply AIM when conditions favor drift. Do not allow spray to contact tobacco foliage or green stem tissue as severe crop injury may occur. Do not apply more than 3.06 fl oz AIM per acre per season. **Rainfast interval = 6 hours.** 

Devrinol 50DF (napropamide)	2.0 lb	1.0 lb	15	70 days	12 hours
Devrinol DF-XT					
Devrinol 2EC	4 qt				
<b>Comments</b> : Apply followin	glast cultivation D	irect spray into row m	uddles using dro	n nozzles Provide	es only residual

**Comments:** Apply following last cultivation. Direct spray into row middles using drop nozzles. Provides only residual control. No activity on emerged weeds. If rainfall does not occur within 5 days, shallowly incorporate or irrigate with sufficient water to wet soil to a depth of 2 to 4 inches. Do not apply more than 4 lb/A of DEVRINOL per season.

Poast 1.5E	1.0-1.5 pt			42 days	12 hours
(sethoxydim)		0.19-0.28 lb	1		

**Comments:** Apply anytime during crop growth before annual grasses exceed 4-6" tall. For rhizome johnsongrass, apply 1.5 pt/A up to 25" tall. A second 1.0 pt/A treatment may be applied to control regrowth up to 12" tall. For bermudagrass, treat 6" runners with 1.5 pt/A, and then apply a second application of 1.0 pt/A to 4" re-growth. Add 1 pt/A of DASH HC or SUNDANCE HC adjuvant or COC 2 pt/A plus UAN at 4-8 pt/A or AMS at 2.5 lb/A. Do not apply more than 4.0 pt/A per season of POAST. **Rainfast interval = 1 hour.** 

Prowl H2O 3.8EC (pendimethalin)	1.5-2.0 pt	0.71-0.95 lb	3	N/A	24 hours
Prowl 3.3 EC	1.8-2.4 pt	0.74-0.99 lb			

**Comments:** Apply 4 to 6 weeks after transplanting in a 16 to 24-inch directed band between crop rows. Spray should not contact the tobacco leaves. Use the higher product rate where weed pressure is heavy. Controls most annual grasses and pigweeds. No activity on emerged weeds.

# Weed Response to Herbicides for Tobacco Weed Management<sup>1</sup>

	PRE-TRANSPLANT					POST-TRANSPLANT							
	PPI <sup>2</sup>				PF	PRE <sup>3</sup> AT-PT <sup>4</sup>			LAYBY DIRECTED				
	Command	Devrinol	Prowl	Tillam	Devrinol + Tillam	Spartan	Spartan Charge	Command	Devrinol DF-XT	Poast	Aim	Devrinol DF-XT	Prowl
anoda, spurred	E		Р			G	G	E		Р	F		Р
barnyardgrass	GE	GE	Е	GE	GE	F	F	GE	GE	GE	G	GE	Е
beggarweed, Florida			Р			Е	Е			Р	F		Р
Bermudagrass	PF	Р	Р	Р	Р	Р	Р	PF	Р	G	Р	Р	Р
citronmelon	G	Р	Р	Р	Р			G	Р	Р	Р	Р	Р
cocklebur, common	F	Р	Р	Р	Р	GE	GE	F	Р	Р	GE	Р	Р
cowpea	P	Р	P	P	P	P	P	P	P	P	P	P	P
crabgrass	Е	Е	Е	Е	Е	FG	FG	Е	Е	Е	Р	Е	Е
crotalaria, showy		Р	Р	Р	Р				Р	Р	F	Р	Р
croton, tropic	G		Р			G	G	G		Р	G		Р
crowfootgrass	G	Е	Е	Е	Е	F	F	G	Е	Е	Р	Е	Е
dayflower, Benghal	F		Р					F		Р			Р
eclipta	G					GE	GE	G		Р	FG		
goosegrass	G	Е	Е	Е	Е	FG	FG	G	Е	Е	Р	Е	Е
jimsonweed	FG		Р			Е	Е	FG		Р	GE		Р
johnsongrass, rhizome	F	Р	Р	Р	Р	Р	Р	F	Р	GE	Р	Р	Р
johnsongrass, seedling	Р	F	Е	F	F	F	F	Р	F	Е	Р	F	Е
lambsquarters, common	GE	G	GE	G	G	Е	Е	GE	G	Р	Р	G	GE
morningglory spp.	Р	Р	Р	Р	Р	Е	Е	Р	Р	Р	G	Р	Р
nutsedge, purple	Р	Р	Р	Р	Р	Е	Е	Р	Р	Р	Р	Р	Р
nutsedge, yellow	Р	Р	Р	Р	Р	Е	Е	Р	Р	Р	Р	Р	Р
panicum, fall	G	G	Е	G	G	FG	FG	G	G	Р	Р	G	Е
panicum, Texas	FG		GE			F	F	FG		G	Р		GE
pigweed spp.	PF	G	FG	G	G	Е	Е	PF	G	Р	Е	G	FG
DNA resistant	PF	G	FG	G	G	Е	Е	PF	G	Р	Е	G	FG
poinsettia, wild	Р		Р					Р		Р	GE		Р
purslane, common	G	GE	GE	GE	GE	F	F	G	GE	Р	F	GE	GE
pusley, Florida	Е	GE	Е	GE	GE	FG	FG	Е	GE	Р	G	GE	Е
ragweed, common	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Е	Р	Р
redweed						G	G			Р	G		
sandbur	Е	G	GE	G	G	PF	PF	Е	G	G	Р	G	Е
sesbania, hemp	Р		Р			G	G	Р		Р	FG		Р
sicklepod	Р	Р	Р	Р	Р	GE	GE	Р	Р	Р	G	Р	Р
sida, prickly	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
signalgrass, broadleaf	G	G	Р	G	G	Р	Р	G	G	GE	G	G	G
smartweed, Pennsylvania	Р	Р	G	Р	Р	F	F	Р	Р	Р	Р	Р	Р
spurge			Р			Р	Р			Р	G		Р
starbur, bristly	Р		Р			G	G	Р		Р	FG		Р
velvetleaf	Р		Р					Р		Р	GE		Р

<sup>1</sup>Key to Response Ratings: E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 70 to 80%; P = poor control, 70% or less; --- = Insufficient Data. <sup>2</sup>PPI = Preplant Incorporated

<sup>3</sup>PRE = Preemergence

<sup>4</sup>AT-PT = At Transplant/Postemergence after Transplant