**HS191** 



## Weed Control in Eggplant <sup>1</sup>

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Eggplant are present in the field in some area of Florida every month of the year. Shipments of eggplant from Florida are recorded and summarized in every month except August.

The great majority of eggplant in Florida is grown on plastic mulch. As with pepper and tomato, production of eggplant on mulch increases yield, reduces inputs of fertilizer and helps to control weeds. Although the production methods for eggplant are very similar to production methods for tomato and pepper, the herbicides labeled for eggplant are much more limited than herbicides for the other crops.

Before purchasing a herbicide for use in eggplant, check to see if the material is labeled for eggplant in that formulation and for the use and timing intended.

Due to the limited labeling situation, growers should plan a weed control program that integrates cultural, mechanical, and chemical methods to fit their weed problems and production practices.

Cultural control methods include the use of mulches and cover crops in off-season to keep the undesirable weed species under control, as well as the use of grasses in row middles as windbreaks, and along the perimeter of the fields to keep many undesirable broadleaf weeds under control.

Mechanical control includes disking, plowing and cultivating the fields either off-season or during the crop to reduce weeds in between the rows or in spray alleys, around buildings and pumps and in equipment parking areas.

Several herbicides are labeled for use in areas around buildings, along fence rows and along ditches and berms.

Before using these herbicides, make sure that they will not drift onto the crop, or if applied to the irrigation water, will not harm the eggplant.

In the crop use only labeled herbicides and use those herbicides in the proper formulation.

To avoid confusion between formulations, suggested rates listed in Table 1 are stated in pounds active ingredient per acre (lb ai/acre).

<sup>1.</sup> This document is WG030, one of a series of the Horticultural Sciences Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Revised November 2007. Revised March 2010. Please visit the EDIS Website at http://edis.ifas.ufl.edu.

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The use of trade names in this publication is solely for the purpose of providing specific information. It is not a guarantee or warranty of the product named, and does not signify that they are approved to the exclusion of others of suitable composition.7.1.

 Table 1. Chemical weed controls:
 eggplant.

Herbicide	Labeled crops	Time of application to crop	Rate (lbs. Al./Acre)	
			Mineral	Muck
Bensulide (Prefar 4E)	Eggplant	Preplant incorporate Preemergence	5 - 6.0	
•	ass weeds. Provides fair to	driven cultivators or apply preemerge good control of lambsquater, purslar	•	•
Carfentrazone (Aim)	Eggplant	Preplant Directed-Hooded Row-middles	0.031	0.031
middles for the bu	rndown of emerged broadle oz (0.031 lb ai). Use a qua	t burndown treatment and/or as a pore eaf weeds. May be tank mixed with o lity spray adjuvant such as crop oil co	ther registered herbic	ides. May be
Clethodim (Select) (Arrow) (Select Max)	Eggplant	Postemergence	0.1 - 0.25	0.1 - 0.25
finished spray volu	ume. Do not apply more that	al and perennial grasses. Use a crop an 8 fl. oz. product/A per application. with the use of a non-ionic surfactan	Do not apply within 20	
DCPA (Dacthal W-75) (Dacthal 6F)	Eggplant	Posttransplanting after crop establishment	6.0 - 8.0	
growing rapidly. M		ply to moist, weed-free soil 4 to 6 weres after crop establishment. Note lab	-	•
Flumioxazin (Chateau)	Fruiting Vegetables Eggplant	Directed Row-middles	0.125	
at least 4 inches h not apply after cro control of emerged Use without a sign	igher than the treated row ps are transplanted/seeded d weeds, a burn down herb ned authorization and waive	oz product/application to row middles middle and the mulched bed must be d. All applications must be made with icide may be tank-mixed. Label is a er of liability is a misuse of the production.	e a minimum of a 24-ir n shielded or hooded of Third-Party registration	nch bed width. Do equipment. For
Glyphosate (Roundup, Durango, Touchdown, Glyphomax)	Eggplant	Chemical fallow Preplant, preemergence, Pretransplant	0.3 - 1.0	
Remarks: Roundon labeling directions		down have several formulations. Che	ck the label of each fo	or specific
Halosulfuron (Sandea)	Eggplant	Row-middles	0.024 - 0.048	
listed weeds. Avoi	d contact of the herbicide t	rows as a directed shielded application of the planted crop. Applications may a non-ionic surfactant in the spray mix	be made at 1/2 to 1 o	-
Lactofen (Cobra)	Fruiting Vegetables	Row-middles	0.25-0.5	

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stage for best control.

Herbicide	Labeled crops	Time of	Rate (lbs. Al./Acre)	
		application to crop	Mineral	Muck
fluid oz per acre. emerged weeds. can cause excess	A minimum of 24 fl oz is red 1 pre and 1 post application sive injury. Drift of Cobra tre	plant or post transplant shielded or laured for residual control. Add a CC may be made per growing season, lated soil particles onto plants can conust be in the possession of the use	OC or non-ionic surfacta Cobra contacting gree ause contact injury. Do	ant for control of en foliage or fruit o not apply within
S-Metolachlor (Dual	Eggplant	Pretransplant	0.64 - 0.95	
Magnum)	Pepper	Posttransplant	0.95	<u> </u>
	arvest within 60 days of app	acre. For post transplant, apply as plications.  Preplant	1.0 - 2.0	
50-DF)	(transplanted)			
Remarks: Apply to a depth of 1 to		May be applied to transplant crop on	ly. Incorporate the san	ne day as applied
Paraquat (Gramoxone Inteon) (Firestorm)	Eggplant	Preplant preemergence	0.5 - 1.0	
before the emerg	ence of the crop. Weeds en	e crop row or as a broadcast treatmerging after the application will not ensurfactant in the spray mixture.		
Paraquat (Gramoxone Inteon)	(Eggplant)	Direct-shielded row middles	0.5	
	could cause draft. Do not ap	orop row middles. Do not exceed 30 oply more than 3 applications per se		•
Pelorgonic acid (Scythe)	Fruiting vegetables Eggplant	Preplant preemergence direct-shielded	3 - 10% v/v	
	ct is a contact nonselective sidual herbicides. Consult la	, foliar applied herbicide. It does not abel for rates.	have residual activity.	May be tank
Sethoxydim (Poast)	Eggplant	Postemergence	0.188 - 0.28	0.188 - 0.28
not apply within 2 Unsatisfactory res	0 days of harvest. Apply in sults may occur if applied to	veeds. A total of 4.5 pts. product per 5 to 20 gals. of water adding 2 pts. of grasses under stress. Use 0.188 lb emerging from rhizomes, etc. Consu	of crop oil concentrate a. ai. (1 pt.) to seedling	per acre. grasses and up