**HS196** 



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

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Strawberries are produced in Florida on the annual hill system instead of the matted row system as in the more northern states. Because the production scheme is more closely related to other vegetables in Florida instead of the more perennial fruit crops, the strawberry is handled as a vegetable.

Over 5000 acres of strawberries are grown in Florida each year. The production season is spread over 6 to 7 months and as a result, the weed species present in the field change during that time. No herbicide could be expected to suppress weeds for the entire total strawberry production season. A combination of weed control methods is needed.

Broad spectrum fumigants at rates that will control weeds, used in combination with plastic mulch greatly enhance weed control as well as control of nematodes and soilborne diseases. Weeds can grow in the plant holes. Hand weeding along with herbicides can assist in alleviating this problem.

Weeds growing in the non-mulched row middles may be controlled by cultivation and herbicides.

A hay or straw mulch placed between the plastic-covered beds also can assist in weed control as well as help in keeping soil from splashing up onto the bed during rains, irrigation and harvest traffic. One should take care not to bring in more problem weed seeds with the straw mulch.

Herbicides must be applied at exactly the correct rate and time to selectively control weed growth (Table 1). Obtain consistent results by reading the herbicide label and other information about the proper application and timing of each herbicide. Herbicides applied to the row middles incorrectly may be absorbed by strawberry roots growing in the row middles, or the herbicide may move laterally under the plant bed with the soil water.

Read and follow the label.

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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 products named, and does not signify that they are approved to the exclusion of others of suitable composition.

 Table 1. Chemical weed controls:
 strawberries.

Herbicide	Labeled crops	Time of	Rate (lbs. Al./Acre)	
		application to crop	Mineral	Muck
Aciflurofen (Ultra Blazer)	Strawberry	Directed-shielded Row middles	0.375	
		ergence control of certain broadle eds. Do not allow contact with stra		•
Carfentrazone (Aim)	Strawberry	Preplant Directed-hooded Row middles	0.031	
application to row r herbicides. May be	middles for the burndown of	burndown treatment and/or as a p emerged broadleaf weeds. May 1 lb ai). Use a quality spray adjuv	be tank mixed with oth	er registered
Clethodim (Select) (Arrow) (SelectMAX)	Strawberry	Postemergence	0.09-0.125	
Remarks: Use Sel finished spray volu		l and perennial grasses. Use a cr t with SelectMAX. Do not apply n est.	•	
Flumioxazin (Chateau)	Strawberry	Row middles	0.1	
control of a large n	umber of broadleaf weeds.	oduct per acre with a shielded or Apply prior to weed emergence.		
control of a large n spray or spray drift Napropamide (Devrinol 50 DF)				
control of a large n spray or spray drift Napropamide (Devrinol 50 DF) (Devrinol) Remarks: Control	umber of broadleaf weeds. in contact with the foliage. Strawberry s annual grasses and annu	Apply prior to weed emergence.  Row middles Pretransplant Incorporate  al broadleaf weeds. Mechanically	Do not apply after fruit  2.0-4.0  incorporate or irrigate	set. Do not allow
control of a large n spray or spray drift Napropamide (Devrinol 50 DF) (Devrinol)  Remarks: Control to 4 inches. Does r Oxyfluorfen	umber of broadleaf weeds. in contact with the foliage. Strawberry s annual grasses and annu	Apply prior to weed emergence.  Row middles  Pretransplant Incorporate	Do not apply after fruit  2.0-4.0  incorporate or irrigate	set. Do not allow
control of a large n spray or spray drift Napropamide (Devrinol 50 DF) (Devrinol)  Remarks: Control to 4 inches. Does r Oxyfluorfen (Goal 2XL)(Goaltender)  Remarks: Must ha	s annual grasses and annual control established week Strawberry  Strawberry  s annual grasses and annual control established week Strawberry  ve a 30-day treatment to pl	Apply prior to weed emergence.  Row middles Pretransplant Incorporate  al broadleaf weeds. Mechanically ds. Do not apply from bloom to hat Fallow bed prior to transplanting Mulch culture  anting interval. Mulch may be put	2.0-4.0  incorporate or irrigate arvest.  0.25-0.5  down any time during	set. Do not allow in to a depth of 2
control of a large n spray or spray drift  Napropamide (Devrinol 50 DF) (Devrinol)  Remarks: Control to 4 inches. Does r  Oxyfluorfen (Goal 2XL)(Goaltender)  Remarks: Must ha as a preemergence  Paraquat (Gramoxone Inteon)	s annual grasses and annual control established week Strawberry  Strawberry  s annual grasses and annual control established week Strawberry  ve a 30-day treatment to pl	Apply prior to weed emergence.  Row middles Pretransplant Incorporate  al broadleaf weeds. Mechanically ds. Do not apply from bloom to ha Fallow bed prior to transplanting Mulch culture	2.0-4.0  incorporate or irrigate arvest.  0.25-0.5  down any time during	set. Do not allow in to a depth of 2
control of a large n spray or spray drift  Napropamide (Devrinol 50 DF) (Devrinol)  Remarks: Control to 4 inches. Does r  Oxyfluorfen (Goal 2XL)(Goaltender)  Remarks: Must ha as a preemergence  Paraquat (Gramoxone Inteon) (Firestorm)  Remarks: Poster and suppression of Gramoxone Inteon	s annual grasses and annual ot control established weeks.  Strawberry  s annual grasses and annual ot control established weeks.  Strawberry  ve a 30-day treatment to ple broadcast or banded treat.  Strawberry  sergence directed spray. For emerged perennial weeds per sprayed acre in a minir	Apply prior to weed emergence.  Row middles Pretransplant Incorporate  al broadleaf weeds. Mechanically ds. Do not apply from bloom to hat Fallow bed prior to transplanting Mulch culture  anting interval. Mulch may be put ment to pre-formed beds as a fall Postemergence directed	2.0-4.0  vincorporate or irrigate arvest.  0.25-0.5  down any time during low bed application.  0.47  dleaf weeds and grass argence or establishme hields to prevent spray	in to a depth of 2  this period. Apply  es and for top kill nt. Apply 1 1/2 ptr

Table 1. Chemical weed controls: strawberries.

Herbicide	Labeled crops	Time of	Rate (Ibs. Al./Acre)			
		application to crop	Mineral	Muck		
Pelargonic Acid	Strawberry	Preplant	3-10% v/v			
(Scythe)		Directed-shielded				
Remarks: Product is a contact, nonselective, foliar herbicide. It has no residual control. May be tank mixed with soil residual herbicides. Consult label for rates.						
Pendimethalin	Strawberry	Post directed	0.072			
(Prowl H <sub>2</sub> O)		Row middles				
Remarks: May be applied pre-transplant, but not under mulch. May be applied at 1.5 pts/A to row middles. Do not apply within 35 days of harvest.						
Terbacil (Sinbar)	Strawberry	Pretransplant	0.2			
Remarks: Make a once-per-year application of 4 oz. of Sinbar per acre after bedding but prior to transplanting. Note - a 110 day PHI is on label. Check rotational crop limitations.						