UNIVERSITY OF FLORIDA
EXTENSION
Institute of Food and Agricultural Sciences

ENY-473

# Insect Management for Sweet Potatoes[1]

S. E. Webb[2]

**Table 1.** Selected insecticides approved for use on insects attacking sweet potatoes.

| Chemical Name | REI (hours) | Days to Harvest | Insects | Notes |
|---|---|---|---|---|
| **Actara** (thiamethoxam) | 12 | 14 | potato leafhopper | Toxic to bees. |
| **Admire 2F** (imidacloprid) | 12 | 125 | aphids | |
| **Azatin XL** (azadirachtin) | 4 | 0 | aphids (suppression), armyworms, beetles, caterpillars, cutworms, leafhoppers, leafminers, loopers, thrips, whiteflies | Use with oil for leafminers. |
| **Bt** (*Bacillus thuringiensis*) | 4 (most) | 0 | armyworms, cabbage looper, corn earworm, sweet potato hornworm, yellowstriped armyworm | |
| **Diatect V; Diatect Multipurpose Insecticide II** (diatomaceous earth + pyrethrins + piperonyl butoxide) | 12 | 0 | aphids, armyworms, cabbage looper | Diatect V is OMRI-listed (no piperonyl butoxide) |

1. This document is ENY-473 (which replaces ENY-443), one of a series of the Entomology & Nematology Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Published: August 2001. Revised: July 2002. For more publications related to horticulture/agriculture, please visit the EDIS Website at **http://edis.ifas.ufl.edu/**. For more information about nematodes, arthropods, and other invertebrates, please visit the Entomology & Nematology Department website at **http://gnv.ifas.ufl.edu/~entweb/entomolo.htm**

2. S. E. Webb, associate professor, Entomology and Nematology Department, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, 32611-0640.

**Table 1.** Selected insecticides approved for use on insects attacking sweet potatoes.

| Chemical Name | REI (hours) | Days to Harvest | Insects | Notes |
|---|---|---|---|---|
| ***Diazinon 14G** (diazinon) | 24 | preplant at root enlargement | wireworms | |
| **Fulfill** (pymetrozine) | 12 | 14 | buckthorn aphid, green peach aphid, melon aphid, potato aphid | Allow a minimum of 7 days between applications. |
| **Imidan 70W** (phosmet) | 24 | 7 | banded cucumber beetle, sweetpotato weevil, whitefringed beetle, suppression of white grub and wireworm | No more than 5 applications per season. Do not apply through irrigation system. |
| **Lorsban 15G; 4E** (chlorpyrifos) | 48 | preplant broadcast treatment, 125 days before harvest | flea beetles, sweet potato beetle, wireworms | |
| **Malathion 57 EC** (malathion) | 12 | 3 | leafhoppers, morning glory leafminer | |
| **Mocap 10 G** (ethoprop) | 48 | preplant see label | cucumber beetles, flea beetles, white grubs, wireworms | |
| **Neemix 4.5** (azadirachtin) | 12 | 0 | aphids, beetles, caterpillars, grasshoppers, leafhoppers, leafminers, thrips, weevils, whiteflies | Does not kill adult insects. |
| **Oil, insecticidal** | 12 | Up to day of harvest | leafminers, mites, whiteflies | |
| **Platinum** (thiamethoxam) | 12 | | aphids, Colorado potato beetles, flea beetles, potato leafhoppers, whiteflies | For most crops that are not on the label, a 120-day plant-back interval must be observed. To manage resistance, avoid using Actara or Provado in conjunction with Platinum. |
| **Pyrellin EC** (pyrethrin + rotenone) | 12 | 0 | aphids, cabbage looper, leafhoppers, mites, plant bugs, thrips | |
| **Py-Rin 60-6% L (EC)** (pyrethrin + piperonyl butoxide) | 12 | 0 | aphids, armyworms, cabbage looper, corn earworm, cucumber beetles, flea beetles, leafminers, plant bugs, thrips, whiteflies | |

**Table 1.** Selected insecticides approved for use on insects attacking sweet potatoes.

| Chemical Name | REI (hours) | Days to Harvest | Insects | Notes |
|---|---|---|---|---|
| **Sevin 80S (WP); XLR; 4F** (carbaryl) | 12 | 7 | corn earworm, cucumber beetles, flea beetles, sweetpotato hornworm, sweepotato weevil (preplant dip), totoise beetle, whitefringed beetle, yellowstriped armyworm | |
| **Sevin 5 Bait** (carbaryl) | 12 | 7 | ants, crickets, cutworms, grasshoppers, sowbugs | |
| **Soap, insecticidal** | 12 | 0 | aphids | |
| **SpinTor 25C** (spinosad) | 4 | 7 | armyworms, leafminers (*Liriomyza* spp.), loopers, thrips | |
| ***Telone C-35** (dichloropropene + chloropicrin) | 5 days - See label | preplant | wireworms | |
| **Thiodan 3 EC; 50 WP Phaser** (endosulfan) | 24 | 1 | sweetpotato flea beetle, sweetpotato weevil, whiteflies | |
| **The pesticide information presented in this table was current with federal and state regulations at the time of revision. The user is responsible for determining the intended use is consistent with the label of the product being used. Use pesticides safely. Read and follow label instructions.** | | | | |
| *** Restricted Use Only.** | | | | |