

F. Commodity Recommendations

Pesticide Use Disclaimer

THE LABEL IS THE LAW

Before using a pesticide, check the labeling **distributed with the product at the point of sale for legally enforceable rates and use restrictions and precautions.** Although labels are available on the Internet from electronic label services such as CDMS (<http://www.cdms.net/>), Greenbook (<https://www.greenbook.net/>), or Agrian (<https://www.agrian.com/labelcenter/results.cfm>) the information contained in these electronic labels may not be identical to the labeling distributed with the product. **Please be advised that these electronic label services provide use disclaimers, and in some cases legally binding User Agreements assigning all liability to user of service.** (See section D 3.1. Labels and Labeling for more detail.)

Guide to the Recommended Pesticide Tables in the Following Crop Sections:

1. Pesticides are listed by **group number or code based on chemical structure and mechanism of action**, as classified by the Herbicide Resistance Action Committee (**HRAC**, <https://hracglobal.com/>) for herbicides, the Insecticide Resistance Action Committee (**IRAC**, <https://irac-online.org/>) for insecticides, and the Fungicide Resistance Action Committee (**FRAC**, <https://www.frac.info/>) for fungicides.
In this guide, if the group number or code is in bold font, there are resistance concerns for the product.
2. **Restricted use pesticides** are marked with a * in the Tables. These products may only be used by certified and/or licensed pesticide applicators, and when stated on the label, those making applications under their direct supervision. Some labels may restrict use solely to certified and/or licensed applicators. (See section D 3.2.1 Restricted Use Classification Statement for more detail).
3. **In addition to the pesticide products listed in the Commodity Recommendations below, other formulations or brands with the same active ingredient(s) may be commercially available. ALWAYS CHECK THE INDIVIDUAL PRODUCT LABELING:**
 - a) to ensure a pesticide is labeled for the same intended use,
 - b) to ensure the pesticide is labeled for the desired crop,
 - c) for differences in application rates and % active ingredient(s), and
 - d) additional restrictions.
4. All pesticide recommendations contained in this document are prescribed for spray applications to a **broadcast area of 1 acre** (43,560 square feet). **Adjust the rate accordingly for banded applications** (See section E 1.3. Calibrating Granular Applicators) **or for chemigation** (check labels for amounts per 1,000 feet).
5. Check the label for and do not exceed the maximum amount of pesticide per application and the maximum number of applications per year.
6. **Bee Toxicity Rating (Bee TR):** N=nontoxic; L=minimum impact on bees; M=moderately toxic, can be used if dosage, timing, and method of application are correct, but should NOT be applied directly to the crop if bees are present; H=highly toxic, severe losses expected, -- = data not available.
7. In accordance with the USDA National Organic Program, the Organic Materials Research Institute (OMRI) maintains a directory of all products that OMRI has determined are allowed for use in organic production, processing, and handling. These products are catalogued online in the **OMRI Products List** (see <https://www.omri.org/omri-lists>).

Sweet Potatoes

Recommended Varieties

Variety ¹	Skin	Flesh	SB ²	SR ²	RK ²	FW ²	RZ ²	BSR ²	FRR ²
Beauregard B-14 (compact)	Light Rose	Orange	I	I	S	R	R	S	R
Beauregard B-63 (extended vine)	Light Rose	Orange	I	I	S	R	R	S	R
Bellevue	Copper	Orange		I	R	R	R	S	
Bonita	Light Tan	White		I	R	I	S		S
Burgundy	Red	Orange		I	R	R	S	I	
Covington	Rose	Orange		R	R				R
Evangeline	Light Rose	Orange	R	I	R	R	R		R
Jewel	Copper	Orange	I	S	R	R	I	I	I
O'Henry	Cream	White	I	I	S	R	R	S	R
Orleans	Light Rose	Orange		I	S	R	R	S	R

¹Listed alphabetically. ²S Susceptible, I Intermediate Resistant; R Resistant; SB = Sclerotinia Blight; SR = Soil Rot (Pox); RK = Root Knot Nematode; FW = *Fusarium* Wilt; RZ = *Rhizopus* Rot; BSR = Bacterial Soft Rot; FRR = *Fusarium* Root Rot.

Recommended Nutrients Based on Soil Tests

In addition to using the table below, check the suggestions on rate, timing, and placement of nutrients in your soil test report and chapter B Soil and Nutrient Management. Your state's soil test report recommendations and/or your farm's nutrient management plan supersede recommendations found below.

Sweet Potatoes ¹		Soil Phosphorus Level				Soil Potassium Level				
		Low	Med	High (Opt)	Very High	Low	Med	High (Opt)	Very High	
	N (lb/A)	P ₂ O ₅ (lb/A)				K ₂ O (lb/A)				Nutrient Timing and Method
	50-75	200	100	50	0 ²	300	200	100	0 ²	Total nutrient recommended.
	25	200	100	50	0 ²	300	200	100	0 ²	Broadcast and disk-in
	25-50	0	0	0	0	0	0	0	0	Sidedress when vines start to run.

¹Apply 20-30 lb/A of sulfur (S) for most soils. ²In VA, crop replacement values of 25 lb/A of P₂O₅ and 50 lb/A of K₂O are recommended on soils testing Very High.

Variety Selection

Select variety according to market preferences, local adaptation, and specific soil problems. Current varieties require 100 to 140 days to achieve maximum yield, depending on cultural practices, irrigation, and environmental conditions. Use certified G1 or G2 (generations), virus tested, disease-free "seeds" (storage root used for transplant/slip production) or cuttings (sprouts or slips for field planting) to maximize yield and quality.

Site Selection, Soil and Fertilization

Well-drained sandy to sandy loam soils are best for sweet potato, either bedding or production. Avoid heavy soils and soils that will stand water for more than 24 hr. Avoid excessive amount of organic matter (such as fields just broken from hay or pastures). Soils with high levels of organic matter may promote scurf. Use long rotations with grains and soybean to decrease the incidence of soil-borne diseases. Avoid fields with high nematode populations and those that had sweet potato in the past two years. Test the soil for nematodes and fertility. Optimum soil pH is 5.8-6.2. If lime is needed, apply it several months before planting. All P and K can be applied before planting. Apply half of the recommended N before planting (broadcast or band) and apply the rest at layby when vines start to run.

Irrigation

Although sweet potatoes are traditionally known as drought tolerant, they still require adequate moisture to produce good quality roots. Plant available soil water fluctuations can cause small, cracked, and misshaped roots. Sweet potatoes can be irrigated using overhead or drip irrigation. The total amount of water applied to the crop should be equal to its requirement plus the volume lost through evaporation and runoff. Soil moisture and irrigation management are key for the success of the crop (see chapter C Irrigation Management).

Plant Production

Sweet potato is propagated vegetatively by sprouts or slips from storage roots ("seed"). Select good quality, certified

G1 or G2 “seeds” that are uniform and free from insects and diseases. Before bedding, “seed roots” should be pre-sprouted at 85°F (29°C) and 90% relative humidity for 3-4 weeks until the sprouts are 1-1½ inch long. Make sure “seed roots” are well ventilated because the process requires oxygen. For bedding, avoid sites that had sweet potato in the past 3 years to reduce the risk of diseases. Fertilize with 4-5 lb/100 sq ft bed area of 8-8-8 or its equivalent. Bed “seed root” stock the first week of April and use black or clear plastic mulch to warm up the soil. Minimum soil temperature for sweet potato to grow is 60°F (16°C). Treat “seed roots” with appropriate fungicides to reduce decay. Spread “seed roots” (one layer) in beds 2-3 ft wide, cover with 2-3 inches of soil or sand and cover with plastic mulch. After 5-7 days, punch holes every 4 ft on each side of the bed to prevent accumulation of carbon dioxide. When clear plastic mulch is used, apply an herbicide (see the Weed Control section). Remove plastic mulch when sprouts begin to emerge and cover with floating row cover to promote growth and protect against cold temperatures. Remove row covers 5-7 days prior to planting to harden the slips. The warmer conditions in greenhouses and high tunnels (hoop houses) promote sprouting and growth for an early production of slips. For optimal growing conditions keep beds moist and temperature between 75-85°F (24-29°C); however, greenhouse or high tunnel slips are less sturdy than slips from field beds for field planting. One 50-lb bushel of “seed” roots produces 500 to 1,000 sprouts in 10-15 sq ft of bed area. For field planting, best slips are 10-12 inches long and they should be cut (not pulled) from the beds at 1 inch above the soil line to minimize transmission of pests and diseases.

Field Planting

Sweet potato is cold sensitive and should be planted after all danger of frost is over and the soil temperature at 4 inch-deep is >65°F (>18°C). The optimum growth temperature is between 70-85°F (21-29°C), although plants can tolerate temperatures between 65-95°F (18-35°C). Plant slips in the field between May 5 and June 15 in warmer, southern areas and between May 20 and June 5 in cooler areas. Slips 12-inch long with 6-8 leaves and well initiated root system are best. Plant slips on moist ridged rows 8-10 inches high. Plant spacing is 12-18 inches along rows and 36-48 inches between rows. Sweet potatoes may also be planted in black plastic mulch covered raised beds with drip irrigation. Water or starter fertilizer solution (1 oz/gal of 15-30-15 or equivalent) at 4-5 oz/slip applied at planting will benefit establishment. If irrigation is available, water field immediately after planting and then as needed (see also **Irrigation** above).

Harvest and Post-Harvest Considerations

Prior to harvest, scout the field to determine storage root size and appropriate proportion of desired market grade. Pre-harvest conditioning and appropriate harvest handling is critical to reduce bruising of the delicate skin. Bruising, wounding, and skinning roots during harvest increase the incidence of diseases. Even if the injury heals, large scars render unappealing storage roots with no fresh market value. Kill vines mechanically (devining) with a flail mower of appropriate design 5-10 d before harvest to improve skin set and facilitate harvest.

Various methods can be used to harvest sweet potato. Growers with small area may harvest by hand using a garden fork. Intermediate sized commercial growers can use a 1 or 2-row modified mold board or disc plow, or middle buster with a notched coulter adjusted just left of the main stems to turn the rows and expose the storage roots. Remove roots from the vines by hand and place them into smooth baskets. Use gloves to keep bruises and abrasions to a minimum. Mechanical diggers patterned after a low flat-bed type potato digger or digger-windrower can facilitate harvest in larger areas. These are 1 or 2-row diggers that incorporate a short separating chain behind a wide blade to dig both soil and roots onto the chain. Soil falls through the chain as the storage roots move up with the chain and drop off to the ground in the back of the digger. Care must be taken to bring enough soil up with the chain to minimize bruises. Storage roots are then picked up by hand and placed in smooth sided baskets. With more advanced harvesters, the storage roots continue on the chain through a platform where they are picked up by hand and placed directly into bins. After the roots are harvested, they should be cured in the storage house at 85°F (29°C) and 85-90% relative humidity for 5-7 days to promote wound healing, reduce disease incidence, and improve sweetness. After curing, temperature should be lowered to 55°F (13°C), but relative humidity should be maintained at 85% for long term storage.

Sweet potato is marketed based on the U.S. Standards for Grades of Sweet Potatoes. U.S. No.1 (roots of 1¼ to 3½ inches in diameter and 3 to 9 inches long) is the preferred grade for fresh market and has the highest price. U.S. No.2 includes smaller root (canner) and larger roots (jumbo) and are accepted by the processing industry. Well-shaped small storage roots free of blemishes have been sold also as fingerling or nuggets in specialty markets.

Weed Control

THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of chapter F. Recommended Herbicides

1. Identify the weeds in each field and select recommended herbicides. More information is available in the "Herbicide Effectiveness on Common Weeds in Vegetables" (Table E-3) in chapter E Pest Management.
2. Minimize herbicide resistance development. Identify the herbicide mode of action group number and follow recommended good management practices; **bolded group numbers in tables below are herbicides at higher risk for selecting resistant weed populations.** Include non-chemical weed control whenever possible.

1.a. Soil-Applied: Pretransplant

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
14	Valor SX 51WDG Valor EZ 41.4SC	3 oz/A 3 fl oz/A	flumioxazin	0.078 lb/A	--	12

-Apply 2 to 5 day pre-transplant after all tillage has been completed. Limit disturbance of treated soil with transplant equipment. Tillage or cultivation after applying Valor SX reduces or eliminates weed control. Valor SX controls many broadleaf weeds, but only suppresses annual grasses. Tank mix with Command pretransplant or follow with a residual grass product to improve control of annual grasses.

-Do not apply postemergence to sweet potatoes.

-Do not use on any variety other than 'Beauregard' unless user has tested Valor SX and found tolerance to be acceptable.

-Do not use on greenhouse grown transplants or transplants that have been harvested more than 2 days prior to transplanting.

-Valor SX can be difficult to clean out of spray tank and hoses. Follow tank cleaning recommendations on the label.

-Maximum for Valor SX 51WDG: 3 oz/A per growing season.

1.b. Soil-Applied: After Transplanting

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
3	Dacthal 6F Dacthal W-75	8.0 to 14.0 pt/A 6.0 to 14 lb/A	DCPA	6.0 to 10.5 lb/A	--	12
13	Command 3ME	1.33 to 2.66 pt/A	clomazone	0.5 to 1.0 lb/A	95	12
15	Devrinol 2-XT 2EC Devrinol DF-XT 50DF	2.0 to 4.0 qt/A 2.0 to 4.0 lb/A	napropamide	1.0 to 2.0 lb/A	--	24

-Apply at transplanting or 10-14 days after transplanting. Labeled for applications directly over transplants without injury.

-If weeds are present, the crop should be weeded or cultivated prior to application. Dacthal controls annual grasses and certain broadleaf weeds. -Maximum application not addressed on label.

-Apply after transplanting and prior to weed emergence. Use lower rates on coarse-textured soils low in organic matter and higher rates on fine-textured soils and soils with high organic matter. Use the lower rate when used on coarse-textured soils low in organic matter, when weed pressure is light, or to minimize herbicide carryover that could affect subsequent crops.

-Controls annual grasses and many broadleaf weeds depending on use rate, except pigweed sp., carpetweed, morningglory sp., and yellow nutsedge. Some temporary crop injury (partial whitening of leaf or stem tissue) may occur. Complete recovery will occur from minor early injury without affecting yield or delaying maturity.

-**WARNINGS:** Command spray or vapor drift may injure sensitive crops and other vegetation up to several hundred yards from the point of application. Do not apply adjacent to sensitive crops (see label) or vegetation, or under unfavorable wind or weather conditions. Command may limit subsequent cropping options, see the label.

-Maximum number of applications per season is 1.

-Apply immediately after transplanting and prior to weed emergence. Rainfall or irrigation within 24 h after application improves performance (½ inch sprinkler irrigation). Annual grasses and certain annual broadleaf weeds will be suppressed or controlled. Use lower rate on coarse textured or sandy soil. Devrinol may reduce stand and yield of fall grains. Moldboard plowing will reduce the risk of injury to a small grain follow crop. Maximum Devrinol application per season: 4 qt/A (2-XT) or 4 lb/A (DF-XT).

2. Postemergence

Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
1	Select 2EC Select Max 0.97EC	6 to 8 fl oz/A 9 to 16 fl oz/A	clethodim	0.07 to 0.125 lb/A	30	24
	Poast 1.5EC	1 to 1.5 pt/A	sethoxydim	0.2 to 0.3 lb/A	30	12
	Fusilade DX 2EC	8 to 12 fl oz/A	fluzifop	0.125 to 0.188 lb/A	14	12

2. Postemergence Select, Select Max, Poast, Fusilade - continued next page

2. Postemergence Select, Select Max, Poast, Fusilade - continued

-**Select 2EC**: use crop oil concentrate (COC) at 1% v/v (1 gal/100 gal of spray solution).
Select Max: use nonionic surfactant (NIS) at 0.25% v/v (1 qt/100 gal of spray solution).
Poast: use COC at 1.0% v/v.
Fusilade DX: use COC at 1.0% v/v or NIS at 0.25% v/v.

-**The use of oil concentrate may increase the risk of crop injury when hot or humid conditions prevail.** To reduce the risk of crop injury, omit additives or switch to NIS when grasses are small and soil moisture is adequate.

-Use lower labeled rates for annual grass control and higher labeled rates for perennial grass control.

-Yellow nutsedge, wild onion, wild garlic, and broadleaf weeds will not be controlled. Controls many annual and certain perennial grasses, including annual bluegrass, but Poast is preferred for goosegrass control. For best results, treat annual grasses when they are actively growing and before tillers are present. Control may be reduced if grasses are large or under hot or dry weather conditions.

-Repeated applications may be necessary to control certain perennial grasses. If repeat applications are necessary, allow 14 days between applications. Rainfastness is 1 h.

-**Do not** tank mix with or apply within 2 to 3 days of any other pesticide, unless labeled, as this may increase the risk of crop injury or reduce the control of grasses. **Do not** apply more than 8 fl oz/A of Select 2EC in a single application and **do not** exceed 2 pt/A for the season; **do not** apply more than 16 fl oz/A of Select Max in a single application and **do not** exceed 4 pt/A for the season.

-**Do not** apply more than 1.5 pt/A Poast in a single application and **do not** exceed 4.5 pt/A for the season.

-**Do not** apply more than 24 fl oz/A of Fusilade DX in a single application and **do not** exceed 3 pt/A per season.

3. Other Labeled Herbicides These products are labeled but limited local data are available; and/or are labeled but not recommended in our region due to potential crop injury concerns.

Group	Product Name (*=Restricted Use)	Active Ingredient
14	Aim	carfentrazone

Insect Control

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Recommended Insecticides

In the Mid-Atlantic U.S., the primary insect pest concerns for sweet potatoes are a complex of soil-inhabiting beetle larvae including white grubs, wireworms, flea beetles, and southern corn rootworms. In general, very little economic damage occurs to this crop from above-ground insect pests. Pest control mostly occurs at planting.

Soil insects: Wireworms, Flea Beetle Larvae, White Grubs, and Rootworms

Apply one of the following formulations:						
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1B	Mocap EC*	5.1 to 6.9 fl oz/1000 row ft	ethoprop - Pre-plant application in a 12-15-inch band on the row 2-3 w before planting.	see label	48	H
3A	Brigade 2EC*	19.2 fl oz/A	bifenthrin - at-planting in-furrow (wireworms)	21	12	H
3A	Brigade 2EC*	3.2 to 9.6 fl oz/A	bifenthrin - apply to soil prior to lay-by or first cultivation	21	12	H
3A	Capture LFR*	12.75 to 25.5 fl oz/A	bifenthrin - at-planting in-furrow or to soil prior to lay-by or first cultivation	21	12	H

Cutworms

See also section E 3.1. Soil Pests - Detection and Control.

Various species can cause direct damage to sweet potatoes as well as sever plant stems.

Apply one of the following formulations:						
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
3A	Baythroid XL*	0.8 to 1.6 fl oz/A	beta-cyfluthrin	0	12	H
3A	Hero EW*	2.6 to 6.1 fl oz/A	zeta-cypermethrin + bifenthrin	21	12	H
3A	Lambda-Cy 1EC*, others	1.92 to 3.2 fl oz/A	lambda-cyhalothrin	7	24	H
3A	Mustang Maxx*	1.28 to 4.00 fl oz/A	zeta-cypermethrin	1	12	H
3A	Tombstone*, others	0.8 to 1.6 fl oz/A	cyfluthrin	0	12	H
3A	Warrior II*	0.96 to 1.6 fl oz/A	lambda-cyhalothrin	7	24	H
3A + 28	Besiege*	5.0 to 8.0 fl oz/A	lambda-cyhalothrin + chlorantraniliprole	14	24	H

F. Sweet Potatoes

Cucumber Beetles, Flea Beetles, Click Beetles and Tortoise Beetle Adults

Well timed foliar applications during the summer months targeting beetle adults can help reduce the number of eggs deposited in fields, which may reduce the amount of larval damage to roots.

Apply one of the following formulations:						
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1A	Sevin XLR Plus	0.5 to 1.0 qt/A	carbaryl	7	12	H
3A	Baythroid XL*	1.6 to 2.8 fl oz/A	beta-cyfluthrin	0	12	H
3A	Brigade 2EC*, others	2.1 to 6.4 fl oz/A	bifenthrin	21	12	H
3A	Hero EW*	2.6 to 6.1 fl oz/A	zeta-cypermethrin + bifenthrin	21	12	H
3A	Lambda-Cy 1EC*, others	2.56 to 3.84 fl oz/A	lambda-cyhalothrin	7	24	H
3A	Mustang Maxx*	1.76 to 4.00 fl oz/A	zeta-cypermethrin	1	12	H
3A	Tombstone*, others	1.6 to 2.8 fl oz/A	cyfluthrin	0	12	H
3A	Warrior II*	1.28 to 1.92 fl oz/A	lambda-cyhalothrin	7	24	H
3A + 4A	Brigadier*	5.1 to 7.7 fl oz/A	bifenthrin + imidacloprid - foliar	21	12	H
3A + 4A	Endigo ZC*	3.5 to 4.5 fl oz/A	lambda-cyhalothrin + thiamethoxam	14	24	H
3A + 4A	Leverage 360*	2.4 to 2.8 fl oz/A	imidacloprid + beta-cyfluthrin	7	12	H
3A + 4A	Savoy EC*	3.6 to 6.1 fl oz/A	bifenthrin + acetamiprid	21	12	H
3A + 28	Besiege*	6.0 to 9.0 fl oz/A	lambda-cyhalothrin + chlorantraniliprole	14	24	H
4A	Actara 25WDG	1.5 to 3.0 oz/A	thiamethoxam	14	12	H
4A	Admire Pro	1.2 fl oz/A	imidacloprid - foliar	7	12	H
4A	Assail 30SG	1.5 to 4.0 oz/A	acetamiprid	7	12	M
4A	Belay 2.13SC	2.0 to 3.0 fl oz/A	clothianidin - foliar	14	12	H

Disease Control

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Recommended Fungicides

Nematodes

See also sections E 1.5. Soil Fumigation and E 1.6. Nematode Control. Use fumigants listed in section E.1.5 or below. Consult the label.

Code	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1A	Vydate L*	1 to 2 gal/A in at least 20 gal/A pre-plant in furrow treatment. see label	oxamyl	AP	48	H
1B	Mocap 15G*	1.1 fl oz/1,000ft row in 12-inch band over the row at planting. See label (not for use in WV)	ethoprop	AP	48	H
7	Velum Prime 4.16SC	6.0 to 6.84 fl oz/A	fluopyram	7	12	--
N-UN	Nimitz 480EC	3.5 to 7.0 pints/treated A	fluensulfone	AP	12	--

Damping-off (*Pythium and Rhizoctonia*)

Code	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
4	Ridomil Gold 4SL	1.0 to 2.0 pt/A	mefenoxam	AP	48	N
4 + 11	Uniform 3.66SE	0.34 fl oz/1,000 ft row	mefenoxam + azoxystrobin	AP	12	N
11	azoxystrobin 2.08F	0.4 to 0.8 fl oz/1,000 ft row	azoxystrobin	AP	4	N
21	Ranman 400SC	6.1 fl oz/A (on 36" row spacing)	cyazofamid	7	12	L
22	Elumin 4SC	8.0 fl oz/A	ethaboxam	--	12	--
43	Presidio 4SC	3.0 to 4.0 fl oz/A	fluopicolide	7	12	L

Bacterial and Fungal Diseases

Bacterial Stem and Root Rot (*Dickeya dadantii*)

Management based on sanitation and handling to prevent wounds and contamination. Select disease-free "seed" roots and cut slips 1 inch above ground. Make holes in the plastic mulch to avoid anaerobic conditions. Use field with good drainage to avoid waterlogging. Maintain dry roots before packing.

Black Rot (*Ceratosistis fimbriata*) and Scurf (*Monilochaetes infuscans*)

Sanitation, “seed” root free of diseases, cut slips 1-inch above soil, field rotation, and curing immediately after harvest (see Harvest and Post-Harvest Considerations) help reduce the incidence of these diseases.

Code	Product Name (*= Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1	Mertect 340-F	107 fl oz/100 gal, dip “seed” roots before bedding, see label	thiabendazole	0.5	12	N

Fusarium Surface Rot, Stem Canker, and Surface Rot

Use resistant varieties and sanitation. Minimize injury during harvest. Cure immediately after harvest and store under proper conditions (see Harvest and Post-Harvest Considerations). Field rotation and clean “seed” roots for bedding. Cut slips 1-inch above ground.

Code	Product Name (*= Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1	Mertect 340-F	107 fl oz/100 gal, dip “seed” roots before bedding, see label	thiabendazole	0.5	12	N

Sclerotinia Blight and Circular Spot (*Sclerotium rolfsii*)

Also known as Southern Blight. Plant in fields without a history of the problem. Dip roots in registered fungicides. Remove bed mulch as soon as sprouts start to emerge.

Streptomyces Soil Rot (Pox)

Use resistant varieties. Maintain a pH between 4.8-5.2 to assist in control. Use crop rotation, clean seed, and clean beds. Fumigation prior to planting may also help.

Post-Harvest**Post-Harvest Fusarium Rot**

Care handling to reduce wounding. Cure immediately after harvest (see Harvest and Post-Harvest Considerations).

Code	Product Name (*= Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
11+12+3	Stadium 34.78SC (only labeled in PA)	1 fl oz per 2,000 lb roots (only labeled in PA)	azoxystrobin + fludioxonil + difenoconazole	--	--	L

Post-Harvest Soft Rot (*Rhizopus*)

Care handling to reduce wounding. Cure immediately after harvest (see Harvest and Post-Harvest Considerations).

Code	Product Name (*= Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
12	Scholar 1.9SC	16 to 32 fl oz/100 gal, see label	fludioxonil	--	12	L

If you are having a medical emergency after using pesticides, call 911 immediately.

If you have any of the following symptoms during or shortly after using pesticides: headache, blurred vision, pinpoint pupils, weakness, nausea, cramps, diarrhea, and discomfort in the chest, call a physician and the National Poison Control Center hotline (1-800-222-1222).

Your call will be routed to your State Poison Control Center.

Anyone with a pesticide exposure poisoning emergency can call the toll-free telephone number for help. Personnel at the Center will give you first-aid information and direct you to local treatment centers if necessary.

For immediate medical attention call 911. Prompt action and treatment may save a life.



In Case of an Accident

- Remove the person from exposure.
- Get away from the treated or contaminated area immediately.
- Remove contaminated clothing.
- Wash with soap and clean water.
- Call a physician and the Poison Control Center (1-800-222-1222) or agency in your state.
- **Have the pesticide label with you! Follow the First Aid Precautionary Statements.**
- Be prepared to give the EPA registration number to the responding center/agency.