

Chapter 17. Sweet Corn Production¹

Katia Viana Xavier, Ramdas Kanissery, Craig Frey, Anna Meszaros, Nicholas S. Dufault, Johan Desaegeer, Jawwad Qureshi, and Julien Beuzelin²

Botany and Planting

Sweet corn— *Zea mays* var. *rugosa*, Poaceae (Gramineae).

Table 1. Planting dates for sweet corn.

Planting Region	Dates
North Florida	Feb–Apr
Central Florida	Jan–Apr
South Florida	Sep–Mar

Table 2. Planting information for sweet corn.

Planting Parameters	Measurements
Distance between rows (in)	28–36
Distance between plants (in)	6–8
Seeding depth (in)	1.0–1.5
Seed per acre (lb)	6–15
Days to maturity from seed	64–90
Plant population (acre)	24,000–32,000

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2. Katia Viana Xavier, assistant professor, Department of Plant Pathology, UF/IFAS Everglades Research and Education Center; Ramdas Kanissery, associate professor, weed science, Department of Horticultural Sciences, UF/IFAS Southwest Florida Research and Education Center; Craig J. Frey, county Extension director and Extension agent II, multi-county commercial vegetable production, M.S. UF/IFAS Extension Hendry County; Anna Meszaros, Extension agent II, M.S., commercial horticulture, vegetable crop production, UF/IFAS Extension Palm Beach County; Nicholas S. Dufault, associate professor, fungal plant disease management of field and vegetable crops, UF/IFAS Department of Plant Pathology; Johan Desaegeer, associate professor, nematology, Department of Entomology and Nematology, UF/IFAS Gulf Coast Research and Education Center; Jawwad Qureshi, associate professor, Department of Entomology and Nematology, UF/IFAS Southwest Florida Research and Education Center; Julien M. Beuzelin, associate professor, integrated pest management, Department of Entomology and Nematology, UF/IFAS Everglades Research and Education Center; UF/IFAS Extension, Gainesville, FL 32611.

The use of trade names in this publication is solely for the purpose of providing specific information. UF/IFAS does not guarantee or warranty the products named, and references to them in this publication do not signify our approval to the exclusion of other products of suitable composition.

Use pesticides safely. Read and follow directions on the manufacturer’s label.

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Cultivars

Table 3. Description of major sweet corn cultivars currently available.

Type	Genes Controlling Sweetness	Storage Life (Days)	Relative Sugar Content
Sugary	Full complement of sugary	1–3	Normal
Sugary Enhanced, also “Modified” and “EH”	Full complement of sugary (su) and half or full complement of sugary enhancer (se)	3–5	Slight to moderate or even high levels
Supersweet, also “Ultra,” “Extra” sweet	No sugary (su); full complement of shrunken-2 (sh2)	5–10	High
Synergistic, also “Sweet-Gene Hybrid”	Full complement of sugary (su) and half complement of shrunken-2 (sh2)	3–5	Moderate
Improved Supersweet	Half complement of sugary (su) and full complement of shrunken-2 (sh2)	5–10	Very high
ADX	No sugary (su) or shrunken-2 (sh2) genes; full complement of ae, du, and wx genes.	5–10	Moderate to high

Table 4. Supersweet (shrunken-2) sweet corn cultivars arranged by kernel color.

Corn	Cultivars
Yellow	Accentuate, Alliance, Astronaut, Gallant MXR, GSS 1170, Hercules, Passion, Primetime, Seminole Gold, SV 1077, SV 1446
White	Coronado, Devotion, Glacial, Platinum XR, 3174 XTH, 3380 XTH
Bicolor	Affection, Awesome XR, Battalion, BSS 1075, Coastal, Courage MXR, Honor XR, Obsession, Salute XR, Seminole Sweet, Starship, 7143

The following tables list registered pesticides that should be integrated with other pest management methods. Additional information on integrated management methods can be requested from UF/IFAS Extension horticulture or agriculture agents. A list of local UF/IFAS Extension offices is available at <https://sfyl.ifas.ufl.edu/find-your-local-office/>.

Table 5. Herbicides approved for managing weeds in sweet corn. **Labels change frequently. Be sure to read a current product label before applying any chemical.** Contact: Ramdas Kanissery, UF/IFAS Southwest Florida Research and Education Center.

	Active Ingredient lb a.i./Acre	Trade Name Product/Acre	MOA Code	Weeds Controlled/Remarks
PREEMERGENCE	Atrazine Mineral Soil 1.0–2.0 Muck Soil 2.0–3.0	(AAtrex) 4 L Mineral: 2–4 pt Muck: 4–6 pt (AAtrex Nine-0) 90 WDG Mineral: 1.1–2.2 lb Muck: 2.2–3.3 lb	5	Germinating broadleaf and grass weeds. Apply to moist soil. No more than 2.5 lb a.i./A per calendar year. Consult labels for plant-back restrictions on rotational crops.
	Carfentrazone up to 0.031	(Aim) 2 EC up to 2 fl oz	14	Apply as a preplant burndown for emerged broadleaf weeds. Use crop oil concentrate, methylated seed oil, or nonionic surfactant at recommended rates. No more than 0.096 lb a.i./A per season. No pretransplant interval.
	Dimethenamid-P 0.56–0.84	(Outlook) 6 EC 12–18 fl oz	15	Annual broadleaf and grass weeds. After application, incorporate into soil by rainfall, sprinkler irrigation, or mechanical tillage. Consult label for rate based on soil texture.
	EPTC 4.0–6.0	(Eradicane) 6.7 E 4.75–7.33 pt	8	Annual broadleaf, grass weeds, and nutsedge. Use lower rates on lighter soils (sand). Control of perennial weeds such as bermudagrass or nutsedge is increased through incorporation.
	Flufenacet 0.49–0.68	(Define DF) 60 DF 13–18 oz (Define SC) 4 SC 15–19 fl oz	15	Annual broadleaf and grass weeds. Rainfall, irrigation, or light cultivation is required within 7–10 days of application. Consult label for rate based on soil texture.
	Glyphosate	(various formulations) consult labels	9	Emerged broadleaf and grass weeds. Apply as a preplant burndown. Tank-mix with a residual herbicide to broaden spectrum of weed control. Consult label for individual product directions.

	Active Ingredient lb a.i./Acre	Trade Name Product/ Acre	MOA Code	Weeds Controlled/Remarks
	Mesotrione 0.188–0.24	(Callisto) 4 SC 6.0–7.7 fl oz	28	Annual broadleaf weeds. Tank-mix with a preemergence grass herbicide for grass control. No more than 7.7 fl oz/A per season.
	Paraquat 0.5–1.0	(Gramoxone) 2 SL 2.0–4.0 pt (Gramoxone) 3 SL 1.3–2.7 pt (Firestorm) 3 SL 1.3–2.7 pt	22	Emerged broadleaf and grass weeds. Apply as a preplant burndown. No more than 3 applications per year. Tank-mix with a residual preemergence herbicide to broaden the spectrum of weed control. Consult label for new restrictions.
	Pelargonic acid	(Scythe) 4.2 EC 3%–10% v/v	27	Emerged broadleaf and grass weeds. Apply as a preplant burndown treatment. Product is a contact, nonselective, foliar-applied herbicide with no residual control. May be tank-mixed with soil residual compounds.
	Pendimethalin Mineral Soil 0.75–1.0 Muck Soil 1.0–2.0	(Acumen, Prowl) 3.3 EC Mineral: 1.8–2.4 pt Muck: 2.4–4.8 pt (Prowl H20) 3.8 Mineral: 2.0–3.0 pt Muck: 2.0–4.0 pt	3	Broadleaf and grass weeds. Overhead irrigation or rainfall is required within 7 days of application.
	Pyraflufen ethyl 0.001–0.003	(ET Herbicide) 0.208 EC 0.5–2.0 fl oz	14	Emerged broadleaf weeds. Apply as a preplant burndown treatment.
	Simazine 2.0	(Princep, Simazine) 4 L 2.0 qt (Princep, Simazine 90 WDG 2.2 lb	5	Broadleaf and grass weeds. If a second application is required, do not exceed 2.5 lb a.i./A per calendar year. Simazine 4 L and Simazine 90 DF can be applied to muck soils at 2.5 lb a.i./A. PHI 45 days.
	S-metolachlor 1.0–1.6	(Brawl, Dual Magnum) 7.62 EC 1.0–1.67 pt (Cinch, Dual II Magnum) 7.64 EC 1.0–1.67 pt	15	Annual broadleaf and grass weeds. Use a lower rate on lighter soils. Weed control is increased with 0.5–1 inch of rainfall or irrigation. No more than 3.9 pt/A per crop year depending on soil texture.
POSTEMERGENCE	Atrazine Mineral Soil 1.0–2.0 Muck Soil 2.0–3.0	(AAtrex) 4 L Mineral: 2–4 pt Muck: 4–6 pt (AAtrex Nine-0) 90 WDG Mineral: 1.1–2.2 lb Muck: 2.2–3.3 lb	5	Broadleaf and some grass weeds. Apply before weeds exceed 1.5 inches tall and before corn exceeds 12 inches in height. No more than 2.5 lb a.i./A per calendar year. Consult label for plant-back restrictions on rotational crops.
	Bentazon 0.75–1.0	(Basagran) 4 L 1.5–2.0 pt (Basagran) 5 L 1.2–1.6 pt	6	Certain broadleaf and sedge weeds. Consult label for weeds controlled/weed size table. No more than 4 pt/A per season.
	Carfentrazone 0.008–0.016	(Aim) 2 EC 0.5–1.0 fl oz	14	Emerged broadleaf weeds. Apply up to the 14-leaf stage of corn growth. After the V8 stage of growth, apply as a directed application. No more than 2.0 fl oz/A per season including preplant burndown and crop application. PHI 3 days.
	Halosulfuron 0.03–0.05	(Sandea) 75 DF 0.6–1.0 oz	2	Broadleaf weeds and nutsedge. Apply over the top or with drop nozzles from the spike stage through the layby stage of corn. A sequential application of 0.66 oz/A may be made using drop nozzles to avoid spraying into the plant whorl. No more than 2 applications per year.
	Mesotrione 0.094	(Callisto) 4 SC 3 fl oz	28	Broadleaf weeds. Treat up to 30 inches tall or up to the 8-leaf stage. Include a crop oil concentrate or nonionic surfactant in the spray solution. Slight leaf bleaching may occur. No more than 7.7 fl oz/A per season.

	Active Ingredient lb a.i./Acre	Trade Name Product/ Acre	MOA Code	Weeds Controlled/Remarks
	Nicosulfuron 0.03–0.06	(Accent) 75 WDG 0.6–1.3 oz (Accent Q) 54.5 WDG 0.9–1.8 oz	2	Broadleaf and grass weeds. Sensitivity to sweet corn varieties is variable. Do not apply to 'Merit' sweet corn. Do not apply to corn that has previously been treated with 'Counter' or 'Thimet' insecticides because this may result in injury. Consult label for acceptable insecticides. Apply as broadcast to corn plants less than 12 inches tall. Use drop nozzles to direct the spray to corn plants that are 12–18 inches tall.
	Pendimethalin Mineral Soil 0.7–1.0 Muck Soil 1.0–2.0	(Acumen, Prowl) 3.3 EC Mineral: 1.8–2.4 pt Muck: 2.4–4.8 pt (Prowl H20) 3.8 Mineral: 2.0–3.0 pt Muck: 2.0–4.0 pt	3	Broadleaf and grass weeds. Apply after 4 inches tall until corn is 20–24 inches tall or the V8 growth stage. Direct the spray to the base of the plants.
	S-metolachlor up to 1.9	(Brawl, Dual Magnum) 7.62 EC up to 2.0 pt (Cinch, Dual II Magnum) 7.64 EC up to 2.0 pt	15	Annual broadleaf and grass weeds. Apply after crop emergence up to 40 inches in height. Direct spray to the base of the plants when plants are taller than 5 inches. Use a lower rate on lighter soils. Weed control is increased with 0.5–1 inch of rainfall or irrigation. No more than 3.9 pt/A per crop year depending on soil texture. PHI 30 days.
	Tembotrione 0.08	(Laudis) 3.5 EC 3 fl oz	27	Annual broadleaf and grass weeds. Crop tolerance is dependent on variety so apply to a small area if tolerance is unknown. Do not use on 'Merit' or 'Shogun'. May be applied from corn emergence through the V7 stage of growth. No more than 3 fl oz/A per season.
	Topramezone 0.020–0.022	(Armezon, Impact) 2.8 0.75–1.0 fl oz	27	Broadleaf and grass weeds. Consult label for maximum size of certain weed species for control. PHI 45 days.

Table 6. Insecticides labeled for management of arthropod pests of sweet corn. **Labels change frequently. Be sure to read a current product label before applying any chemical. Please refer to chapter 19 for information on biopesticides, including materials labeled for certified organic production.** Contact: Julien Beuzelin, UF/IFAS Everglades Research and Education Center.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/ Acre	REI (Hours)	Days to Harvest	Remarks ²
Aphids	1A	*Lannate LV *Lannate SP (methomyl)	LV: 0.75–1.5 pt SP: 0.25–0.50 lb	48	Ears: 0 Forage: 3 Stover: 21	Certain hybrid varieties are susceptible to methomyl injury. Treat a small area to determine safety first.
	1B	Fyfanon Fyfanon 57% EC (malathion)	1.5 pt	12	5	No more than 2 applications per year. Crop injury may occur in the whorl to silking stages.
	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands are available with same active ingredient.
	3A	*Capture LFR (bifenthrin)	Preplant incorporated: 4.0–5.3 fl oz At plant: 3.4–13.6 fl oz Preemergence: 3.4 fl oz	12	Preplant incorporated, at planting, preemergence application	For mixing with liquid fertilizer. No more than 0.2 lb a.i./A of bifenthrin. Many other brands are available with same active ingredient.
	3A	*Delta Gold (deltamethrin)	1.5–2.4 fl oz	12	Ears and forage: 1 Stover: 21	No more than 38.4 fl oz/A.
	3A	*Fastac CS (alpha-cypermethrin)	2.8–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.8–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	1.28–1.92 fl oz	24	Ears (foliar):1 For feeding livestock or at-plant applications: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflo)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflo) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.
	4A	Assail 30 SG Assail 70 WP (acetamiprid)	30 SG: 2.1–2.9 oz 70 WP: 0.9–1.2 oz	12	1	30 SG: No more than 11.2 oz/A or 0.21 lb a.i. per year. 70 WP: No more than 4.8 oz/A or 0.21 lb a.i. per year. Other brands are available with same active ingredient.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	4A + 15	Cormoran (acetamiprid + novaluron)	9–12 fl oz	12	7	No more than 40 fl oz/A per season or 0.21 lb a.i. acetamiprid and 0.39 lb a.i. novaluron per year.
	4C	Transform WG (sulfoxaflor)	0.75–1.5 oz	24	7	No more than 3.0 oz/A per year.
	4D	Sivanto Prime (flupyradifurone)	7.0–14.0 fl oz	4	Ears and forage: 7 Stover: 21	No more than 28 fl oz/A per year.
Beetles (includes banded cucumber beetle, flea beetles, sap beetles, seed corn beetle)	1A	*Lannate LV *Lannate SP (methomyl)	LV: 0.75–1.5 pt SP: 0.25–0.50 lb	48	Ears: 0 Forage: 3 Stover: 21	Certain hybrid varieties are susceptible to methomyl injury. Treat a small area to determine safety first.
	1A	Sevin 4F Sevin XLR Plus (carbaryl)	1–2 qt	24 (21 days for detasseling workers)	Ears: 2 Forage: 14 Fodder: 48	No more than 16 qt/A per year.
	1B	*Counter 15G Lock 'N Load (terbufos)	Banded or in furrow: 6.0–8.0 oz/1000 ft of row Postemergence incorporated: 8 oz/1000 ft of row at cultivation	48	60	No more than 1 application (at planting, postemergence incorporated, or cultivation time treatment). 20G formulation available.
	1B	Fyfanon Fyfanon 57% EC ULV AG (malathion)	Fyfanon, 57% EC: 1.5 pt ULV AG: 4–8 fl oz	12	5	No more than 2 applications per year. Crop injury may occur in the whorl to silking stages.
	1B	*Thimet 20-G (phorate)	4.5–6.0 oz/1000 ft of row	48	at planting	No more than 1 application.
	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Baythroid XL (beta-cyfluthrin)	0.8–2.8 fl oz	12	0	No more than 28 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands are available with same active ingredient.
	3A	*Capture LFR (bifenthrin)	Preplant incorporated: 4.0–5.3 fl oz At plant: 3.4–13.6 fl oz Preemergence: 3.4 fl oz	12	Preplant incorporated, at planting, preemergence application	For mixing with liquid fertilizer. No more than 0.2 lb a.i./A of bifenthrin. Many other brands are available with same active ingredient.
	3A	*Delta Gold (deltamethrin)	1.0–2.4 fl oz	12	Ears and forage: 1 Stover: 21	No more than 38.4 fl oz/A.
	3A	*Fastac CS (alpha-cypermethrin)	2.2–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Force 3G (tefluthrin)	Variable depending on row spacing	0	At planting or cultivation within 30 days of seedling emergence	No more than 1 application. Granules must be incorporated.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.24–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	At plant: 0.33 fl oz/1000 ft of row Foliar: 1.28–1.92 fl oz	24	Ears (foliar): 1 Feeding livestock or at-plant applications: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflor)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflor) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.
	4A	Assail 30 SG Assail 70 WP (acetamiprid)	30 SG: 4.0–5.3 oz 70 WP: 1.7–2.3 oz	12	7	30 SG: No more than 11.2 oz/A or 0.21 lb a.i. per year. 70 WP: No more than 4.8 oz/A or 0.21 lb a.i. per year. Other brands are available with same active ingredient.
	4A + 15	Cormoran (acetamiprid + novaluron)	9–12 fl oz	12	7	No more than 40 fl oz/A per season or 0.21 lb a.i. acetamiprid and 0.39 lb a.i. novaluron per year.
	15	Rimon 0.83EC (novaluron)	6–12 fl oz	12	1	No more than 60 fl oz/A.
Caterpillars (includes beet armyworm, corn borer, corn earworm, cutworms, fall armyworm, webworms)	1A	*Lannate LV *Lannate SP (methomyl)	LV: 0.75–1.5 pt SP: 0.25–0.50 lb	48	Ears: 0 Forage: 3 Stover: 21	Certain hybrid varieties are susceptible to methomyl injury. Treat a small area to determine safety first.
	1A	*Methomyl 5G (methomyl)	1.5–3.0 lb	48	Forage: 3 Ears: 21	For corn earworm and fall armyworm control. Apply as a banded application, directing granules to the whorl of the plants. Apply from the 4th leaf stage until tasseling. No more than 30 lb/A or 5 applications per season.
	1A	Sevin 4F Sevin XLR Plus (carbaryl)	1–2 qt	24 (21 days for detasseling workers)	Ears: 2 Forage: 14 Fodder: 48	No more than 16 qt/A per year.
	1B	*Counter 15G Lock 'n Load (terbufos)	Banded or in furrow: 6.0–8.0 oz/1000 ft of row Postemergence incorporated: 8 oz/1000 ft of row at cultivation	48	60	No more than 1 application (at planting, postemergence incorporated, or cultivation time treatment). 20G formulation available.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	1B	Fyfanon Fyfanon 57% EC (malathion)	1.5 pt	12	5	No more than 2 applications per year. Crop injury may occur in the whorl to silking stages.
	1B	*Mocap 15G (ethoprop)	See label.	48	at planting	No more than 1 application.
	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Baythroid XL (beta-cyfluthrin)	0.8–2.8 fl oz	12	0	No more than 28 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	In-furrow T-band at plant: 0.15–0.30 fl oz/1000 ft of row Foliar: 2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands are available with same active ingredient.
	3A	*Capture LFR (bifenthrin)	Preplant incorporated: 4.0–5.3 fl oz At plant: 3.4–13.6 fl oz Preemergence: 3.4 fl oz	12	Preplant incorporated, at planting, preemergence application	For mixing with liquid fertilizer. No more than 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Delta Gold (deltamethrin)	1.0–2.4 fl oz	12	Ears and forage: 1 Stover: 21	No more than 38.4 fl oz/A.
	3A	*Fastac CS (alpha-cypermethrin)	2.2–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Force 3G (tefluthrin)	Depends on row spacing	0	At planting or cultivation within 30 days of seedling emergence	No more than 1 application. Granules must be incorporated.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.24–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	At plant: 0.33 fl oz/1000 ft of row Foliar: 1.28–1.92 fl oz	24	Ears (foliar): 1 Feeding livestock or at-plant applications: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflo ^r)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflo ^r) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	4A + 15	Cormoran (acetamiprid + novaluron)	9–12 fl oz	12	7	No more than 40 fl oz/A per season or 0.39 lb a.i. novaluron and 0.21 lb a.i. acetamiprid per year.
	5	Radiant SC (spinetoram)	3–6 fl oz	4	Ears: 1 Forage or fodder: 3	No more than 36 fl oz/A per year.
	5 + 18	Intrepid Edge (spinetoram + methoxyfenozide)	4–12 fl oz	4	Ears and methoxyfenozide, fodder: 3	No more than 51 fl oz/A per year (1 lb a.i. forage, 21 dry 0.2 lb a.i. spinetoram).
	11A	Agree WG (<i>Bacillus thuringiensis</i> subspecies <i>aizawai</i>)	1.0–2.0 lb	4	0	Good coverage is essential.
	11A	Biobit HP (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>)	0.5–2.0 lb	4	0	Good coverage is essential.
	11A	Crymax WDG (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>)	0.5–2.0 lb	4	0	Good coverage is essential.
	11A	Deliver (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>)	0.25–1.5 lb	4	0	Good coverage is essential.
	11A	DiPel DF (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>)	0.5–2.0 lb	4	0	Good coverage is essential.
	11A	Javelin WG (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>)	0.12–1.50 lb	4	0	Good coverage is essential.
	11A	Xentari DF (<i>Bacillus thuringiensis</i> subspecies <i>aizawai</i>)	0.5–2.0 lb	4	0	Good coverage is essential.
	15	Rimon 0.83EC (novaluron)	6–12 fl oz	12	1	No more than 60 fl oz/A.
	18	Intrepid 2F (methoxyfenozide)	4–16 fl oz	4	Ears and forage: 3 Dry fodder: 21	No more than 64 fl oz/A per year. Other brands are available with same active ingredient.
	22	Avaunt Avaunt eVo (indoxacarb)	2.5–3.5 oz	12 (14 days for hand harvesting)	Ears: 3 Fodder and stover: 35	No more than 14 oz/A per season or 42 oz/A per year. Whorl stage through tassel push applications only.
	28	Coragen (chlorantraniliprole)	3.5–7.5 fl oz	4	1	Foliar only. No more than 15.4 fl oz/A or 0.2 lb a.i./A chlorantraniliprole per year.
	28	Vantacor (chlorantraniliprole)	In-furrow at plant: 1.7–2.5 fl oz Foliar: 1.2–2.5 fl oz	4	1	No more than 5.1 fl oz/A or 0.2 lb a.i./A chlorantraniliprole per year. Can be applied by overhead sprinkler chemigation system.
	32	Spear-Lep (GS-omega/kappa-Htx-Hv1a)	1–2 pt	4	0	Must be tank-mixed with a <i>Bacillus thuringiensis</i> (Bt) product. No more than 10 gal/A per year.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
Chinch bugs	1A	Sevin 4F Sevin XLR Plus (carbaryl)	1–2 qt	24 (21 days for detasseling workers)	Ears: 2 Forage: 14 Fodder: 48	No more than 16 qt/A per year.
	1B	*Counter 15G Lock 'n Load (terbufos)	Banded or in furrow: 6.0–8.0 oz/1000 ft of row Postemergence incorporated: 8 oz/1000 ft of row at cultivation	48	60	No more than 1 application (at planting, postemergence incorporated, or cultivation time treatment). 20G formulation available.
	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Baythroid XL (beta-cyfluthrin)	0.8–2.8 fl oz	12	0	No more than 28 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Delta Gold (deltamethrin)	1.5–2.4 fl oz	12	Ears and forage: 1 Stover: 21	No more than 38.4 fl oz/A.
	3A	*Fastac CS (alpha-cypermethrin)	2.2–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Force 3G (tefluthrin)	Depends on row spacing	0	At planting or cultivation within 30 days of seedling emergence	No more than 1 application. Granules must be incorporated.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.24–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	1.28–1.92 fl oz	24	Ears: 1 Feeding livestock: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflo ^r)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflo ^r) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
Corn silk flies	1B	Fyfanon ULV AG (malathion)	6–8 fl oz	12	5	No more than 2 applications per year. Ultra-low volume (ULV) formulation.
	3A	*Asana XL Insecticide (esfenvalerate)	9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Baythroid XL (beta-cyfluthrin)	0.8–2.8 fl oz	12	0	No more than 28 fl oz/A.
	3A	*Fastac CS (alpha-cypermethrin)	2.8–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.24–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	1.92 fl oz	24	Ears: 1 Feeding livestock: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflor)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflor) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	10 fl oz	24	1	No more than 31 fl oz/A per year.
	4A	Assail 30 SG Assail 70 WP (acetamiprid)	30 SG: 5.3 oz 70 WP: 2.3 oz	12	7	30 SG: No more than 11.2 oz/A. 70 WP: No more than 4.8 oz/A or 0.21 lb a.i. per year. Other brands are available with same active ingredient.
	4A + 15	Cormoran (acetamiprid + novaluron)	12 fl oz	12	7	No more than 40 fl oz/A per season or 0.21 lb a.i. acetamiprid and 0.39 lb a.i. novaluron per year.
Fire ants	3A	*Force 3G Insecticide (tefluthrin)	Depends on row spacing	0	At planting or cultivation within 30 days of seedling emergence	No more than 1 application. Granules must be incorporated.
Grasshoppers	1B	Fyfanon Fyfanon 57% EC (malathion)	1.5 pt	12	5	No more than 2 applications per year. Crop injury may occur in the whorl to silking stages.
	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Baythroid XL (beta-cyfluthrin)	0.8–2.8 fl oz	12	0	No more than 28 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Delta Gold (deltamethrin)	1.0–1.5 fl oz	12	Ears and forage: 1 Stover: 21	No more than 38.4 fl oz/A.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	3A	*Fastac CS (alpha-cypermethrin)	2.8–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.8–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	1.28–1.92 fl oz	24	Ears: 1 Feeding livestock: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflor)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflor) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.
	4A + 15	Cormoran (acetamiprid + novaluron)	9–12 fl oz	12	7	No more than 40 fl oz/A per season or 0.21 lb a.i. acetamiprid and 0.39 lb a.i. novaluron per year.
	15	Rimon 0.83EC (novaluron)	6–12 fl oz	12	1	No more than 60 fl oz/A.
	28	Coragen (chlorantraniliprole)	2.0–5.0 fl oz	4	1	Foliar only. No more than 15.4 fl oz/A or 0.2 lb a.i./A chlorantraniliprole per year.
	28	Vantacor (chlorantraniliprole)	1.2–2.5 fl oz	4	1	Foliar only. Can be applied by overhead sprinkler chemigation system. No more than 5.1 fl oz/A or 0.2 lb a.i./A chlorantraniliprole per year.
Leafhoppers	1A	Sevin 4F Sevin XLR Plus (carbaryl)	1–2 qt	24 (21 days for detasseling workers)	Ears: 2 Forage: 14 Fodder: 48	No more than 16 qt/A per year.
	1B	Fyfanon Fyfanon 57% EC (malathion)	1.5 pt	12	5	No more than 2 applications per year. Crop injury may occur in the whorl to silking stages.
	3A	*Fastac CS (alpha-cypermethrin)	2.2–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	4.0–10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.24–4.0 fl oz	12	3	No more than 24 fl oz/A.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	3A	*Warrior II (lambda-cyhalothrin)	1.28–1.92 fl oz	24	Ears: 1 Feeding livestock: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflor)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflor) per year.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	4D	Sivanto Prime (flupyradifurone)	7.0–14.0 fl oz	4	Ear and forage: 7 Stover: 21	No more than 28 fl oz/A per year.
Soil pests (includes corn rootworms, seed corn maggot, white grubs, wireworms)	1A	*Lannate LV *Lannate SP (methomyl)	LV: 0.75–1.5 pt SP: 0.25–0.50 lb	48	Ears: 0 Forage: 3 Stover: 21	Certain hybrid varieties are susceptible to methomyl injury. Treat a small area to determine safety first.
	1A	Sevin 4F Sevin XLR Plus (carbaryl)	1–2 qt	24 (21 days for detasseling workers)	Ears: 2 Forage: 14 Fodder: 48	No more than 16 qt/A per year.
	1B	*Counter 15G Lock 'n Load (terbufos)	Banded or in furrow: 6.0–8.0 oz/1000 ft of row Postemergence incorporated: 8 oz/1000 ft of row at cultivation	48	60	No more than 1 application (at planting, postemergence incorporated, or cultivation time treatment). 20G formulation available.
	1B	*Mocap 15G (ethoprop)	See label	48	At planting	No more than 1 application.
	1B	*Thimet 20-G (phorate)	At planting or cultivation: 4.5–6.0 oz/1000 ft of row	48	Ears, forage: 30	No more than 1 application.
	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Baythroid XL (beta-cyfluthrin)	0.8–2.8 fl oz	12	0	No more than 28 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	In-furrow T-band at plant: 0.15–0.30 fl oz/1000 ft of row Foliar: 2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Capture LFR (bifenthrin)	Preplant incorporated: 4.0–5.3 fl oz At plant: 3.4–17.0 fl oz Preemergence: 3.4 fl oz	12	Preplant incorporated at planting, preemergence application	For mixing with liquid fertilizer. No more than 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Force 3G (tefluthrin)	Depends on row spacing	0	At planting or cultivation within 30 days of seeding emergence	No more than 1 application. Granules must be incorporated.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	3A	*Warrior II (lambda-cyhalothrin)	At plant: 0.33 fl oz/1000 ft of row Foliar: 1.28–1.92 fl oz	24	Ears (foliar): 1 Feeding livestock or at-plant applications: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.
Spider mites	1B	*Thimet 20-G (phorate)	4.5–6.0 oz/1000 ft of row	48	At planting, see label	No more than 1 application.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	5.12–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Hero Insecticide (bifenthrin + zeta-cypermethrin)	10.3 fl oz	12	3	No more than 27.39 fl oz/A (0.266 lb a.i./A). See label when using more than 1 product containing bifenthrin or zeta-cypermethrin.
	3A + 4C	Ridgeback (bifenthrin + sulfoxaflor)	4.5–13.8 fl oz	24	7	No more than 27.6 fl oz/A (0.2 lb a.i./A bifenthrin and 0.067 lb a.i./A sulfoxaflor) per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	7.7–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.
	6	*Agri-Mek SC (abamectin)	1.75–3.50 fl oz	12	7	No more than 7 fl oz/A per year. Must be mixed with a nonionic activator-type wetting, spreading, or penetrating adjuvant. Do not use binder or sticker adjuvant.
	23	Oberon 2SC (spiromesifen)	5.7–16 fl oz	12	Ears, green forage, silage: 5 Grain or stover: 30	No more than 17 fl oz/A.
Tarnished plant bug	3A	*Asana XL Insecticide (esfenvalerate)	5.8–9.6 fl oz	12	1	No more than 96 fl oz/A.
	3A	*Brigade 2EC Insecticide/Miticide (bifenthrin)	2.1–6.4 fl oz	12	1	No more than 12.8 fl oz/A or 0.2 lb a.i./A of bifenthrin. Many other brands with same active ingredient are available.
	3A	*Fastac CS (alpha-cypermethrin)	2.8–3.8 fl oz	12	3	No more than 11.4 fl oz/A.
	3A	*Mustang Maxx (zeta-cypermethrin)	2.24–4.0 fl oz	12	3	No more than 24 fl oz/A.
	3A	*Warrior II (lambda-cyhalothrin)	1.28–1.92 fl oz	24	Ears: 1 Feeding livestock: 21	No more than 30.72 fl oz/A. Many other brands with same active ingredient are available.

Insect or Mite Pest	MOA Code ¹	Trade Name (Active Ingredient)	Rate Product/Acre	REI (Hours)	Days to Harvest	Remarks ²
	3A + 28	*Besiege (lambda-cyhalothrin + chlorantraniliprole)	6–10 fl oz	24	1	No more than 31 fl oz/A per year.
	3A + 28	*Elevest (bifenthrin + chlorantraniliprole)	4.8–9.6 fl oz	12	1	No more than 2 applications per year. No more than 0.2 lb a.i./A bifenthrin and 0.2 lb a.i./A chlorantraniliprole per year.
Thrips (check label for species controlled)	1B	*Counter 15G Lock 'n Load (terbufos)	Banded or in furrow: 6.0–8.0 oz per 1000 ft of row Postemergence incorporated: 8 oz per 1000 ft of row at cultivation	48	60	No more than 1 application (at planting, postemergence incorporated, or cultivation time treatment). 20G formulation available.
	1B	Fyfanon Fyfanon 57% EC (malathion)	1.5 pt	12	5	No more than 2 applications per year. Crop injury may occur in the whorl to silking stages.

¹Mode of Action (MOA) codes for plant pest insecticides from the Insecticide Resistance Action Committee (IRAC) Mode of Action Classification v. 11.1 January 2024. Number codes are used to distinguish the main insecticide mode of action groups, with additional letters for certain subgroups within each main group. All insecticides within the same group (with the same number) indicate the same active ingredient or similar mode of action. This information must be considered for the insecticide resistance management decisions.

²Information provided in this table applies only to Florida. Be sure to read a current product label before applying any product. The use of brand names and any mention or listing of commercial products or services in the publication does not imply endorsement by UF/IFAS Extension nor discrimination against similar products or services not mentioned.

*Restricted use insecticide.

Table 7. Sweet corn fungicides ordered by disease and then FRAC group according to their mode of action. **Labels change frequently. Be sure to read a current product label before applying any chemical. Please refer to chapter 19 for information on biopesticides, including materials labeled for certified organic production.** Contact: Katia Viana Xavier, UF/IFAS Everglades Research and Education Center.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
Bacterial stalk rot	M1	(copper compounds) Many brands available: AmeriCop 40 DF, Badge SC, Badge X2, ChampION++, Copper Count N, Cueva, Kocide 2000, Kocide 3000, Mastercop, Nu-Cop 50 DF, Top Cop w/ Sulfur	SEE INDIVIDUAL LABELS	SEE INDIVIDUAL LABELS	1	Varies by product from 4 hr to 2 days	–
Damping-off	M3	Signet 480FS (thiram)	5.0 oz/100 lb of seed	–	–	1	Seed treatment only.
Damping-off seedling blight	3	Vortex (ipconazole)	0.085 fl oz/100 lb of seed	–	–	0.5	Seed treatment only.
	4 + 3	Dividend Extreme (mefenoxam + difenoconazole)	5 fl oz/100 lb of seed	–	–	2	Seed treatment only.
	11	Dynasty (azoxystrobin)	0.153 fl oz/100 lb of seed	–	–	4	Seed treatment only.
	11	Trilex (trifloxystrobin)	0.32–0.96 fl oz/100 lb of seed	–	–	–	Seed treatment only.
Eye spot	3	(propiconazole) Many brands available: Amtide Propiconazole 41.8, Bumper 41.8EC, Fitness, Propiconazole E-AG 41.8EC, Propimax EC, Tilt	4 fl oz	16 fl oz	14	0.5	No more than 4 total applications.
	3 + 7 + 11	Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin)	13.7 fl oz	44.5 fl oz	14	0.5	No more than 2 sequential applications.
	3 + 11	Delaro (prothioconazole + trifloxystrobin)	8 fl oz	32 fl oz	Forage and ears: 0 Fodder: 14	0.5	No more than 2 sequential applications.
	7	Vertisan (penthiopyrad)	24 fl oz	48 fl oz	7	0.5	Soil and foliar treatments. See label for details.
	7 + 11	Priaxor (fluxapyroxad + pyraclostrobin)	8 fl oz	16 fl oz	7	0.5	Alternate with fungicides of dissimilar modes of action.
	11	Aftershock (fluoxastrobin)	Foliar: 3.8 fl oz	15.27 fl oz	7	0.5	Soil and foliar treatments. See label for details.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
	11	Evito 480SC (fluoxastrobin)	3.8 fl oz	15.2 fl oz	7	0.5	No more than 2 sequential and 4 total applications.
	11	Headline (pyraclostrobin)	12 fl oz	72 fl oz	7	0.5	No more than 2 sequential and 6 total applications of Headline or other Qol fungicides.
	11	Headline SC (pyraclostrobin)	12 fl oz	72 fl oz	7	0.5	No more than 2 sequential and 6 total applications of Headline or other Qol fungicides.
	11	Quadris (azoxystrobin)	15.4 fl oz or 0.8 fl oz/1000 row ft	2.88 qt	7	4 hr	No more than 1 sequential and 4 total applications of Quadris or other Qol fungicides. See label for soil applications.
	11 + 3	Avaris (azoxystrobin + propiconazole)	14 fl oz	28 fl oz	14	0.5	See label for details.
	11 + 3	Evito T (fluoxastrobin + tebuconazole)	9 fl oz	36 fl oz	7	19	No more than 2 sequential and 4 total applications.
	11 + 3	Headline AMP (pyraclostrobin + metconazole)	14.4 fl oz	57.6 fl oz	7	0.5	No more than 2 sequential and 4 total applications.
	11 + 3	Helmstar Plus (azoxystrobin + tebuconazole)	10.8 fl oz	43.2 fl oz	7	19	Do not spray after V-8 growth stage.
	11 + 3	Quilt (azoxystrobin + propiconazole)	14 fl oz	56 fl oz	14	0.5	Alternate every other application with a fungicide of dissimilar mode of action.
	11 + 3	Quilt XCEL (azoxystrobin + propiconazole)	14 fl oz	56 fl oz	14	0.5	Alternate every other application with a fungicide of dissimilar mode of action.
	11 + 3	Stratego (trifloxystrobin + propiconazole)	12 fl oz	24 fl oz	14	0.5	No more than 2 sequential applications.
	11 + 3	Stratego YLD (trifloxystrobin + propiconazole)	5 fl oz	20 fl oz	14	0.5	No more than 2 sequential applications.
	11 + 3	Topguard EQ (flutriafol + azoxystrobin)	7 fl oz	14 fl oz	–	3	No more than 2 applications per season.
	11 + 3	Veltyma (pyraclostrobin + mefentrifluconazole)	10 fl oz	20 fl oz	21	0.5	See label for details.
	11 + 7	Priaxor (pyraclostrobin + fluxapyroxad)	8 fl oz	16 fl oz	7	0.5	See label for details.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
Gray leaf spot	3	(tebuconazole) Many brands available: Folicur 3.6F, Monsoon 3.6F, Orius 3.6F, Tebustar 3.6L, Tebuzol 3.6F, Toledo 3.6F	6 fl oz	24 fl oz	7	0.5	–
	3	Topguard (flutriafol)	14 fl oz	28 fl oz	7	3	No more than 2 applications per year.
	3	Xyway LFR (flutriafol)	5.8–15.2 fl oz	15.2 fl oz	–	0.5	Apply to corn in-furrow at planting or postemergence directed to the soil.
	3 + M2	Unicorn (tebuconazole + sulfur)	3.75 lb	15.0 lb	14	19	See label for details and rotational restrictions.
	3 + 7	Revyllok (mefentrifluconazole + fluxapyroxad)	15 fl oz	30 fl oz	21	0.5	No more than 2 applications per season.
	3 + 7 + 11	Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin)	13.7 fl oz	44.5 fl oz	14	0.5	No more than 2 sequential applications.
	3 + 7 + 11	Revyttek (mefentrifluconazole + fluxapyroxad + pyraclostrobin)	15 fl oz	30 fl oz	21	0.5	See label for details.
	3 + 33	Viathon (tebuconazole + potassium phosphite)	3.0 pt	16.5 pt	7	0.5	See label for details and rotational restrictions.
	7 + 11	Priaxor (pyraclostrobin + fluxapyroxad)	8 fl oz	16 fl oz	7	0.5	Alternate with a fungicide of dissimilar mode of action.
	3 + 11	Veltyma (mefentrifluconazole + pyraclostrobin)	10 fl oz	30 fl oz	21	0.5	No more than 3 applications of 10 fl oz/A or 4 applications of 7 fl oz/A.
Northern blight Southern blight Common rust	M3	(mancozeb) Many brands available: Dithane F45 Rainshield, Dithane M45, Koverall, Manzate Max, Manzate Pro-Stick, Penncozeb 75DF, Penncozeb 80WP, Roper DF, Roper DF Rainshield	1.5 lb	24 lb	7	1	Start applications at the first sign of disease.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
	M5	(chlorothalonil) Many brands available: Bravo Ultrex, Bravo Weather Stik, Chlorothalonil 720, Echo 720, Echo 90DF, Echo ZN, , Equus 720 SST, Initiate 720, Initiate ZN	SEE INDIVIDUAL LABELS	SEE INDIVIDUAL LABELS	7	0.5	–
	3	(propiconazole) Many brands available: , Bumper 41.8 EC, Fitness, Propimax EC, Propi-Star EC, , Tilt, Topaz, Willowood Propicon 3.6EC	4 fl oz	16 fl oz	14	0.5	No more than 4 total applications.
	3	Prosaro® 421 SC (tebuconazole + prothioconazole)	8.2 fl oz	26 fl oz	21	0.5	See label for adjuvant information and rotational restrictions.
	3	(tebuconazole) Many brands available: Monsoon, Onset 3.6L, Orius 3.6F, Tebu-Crop, Tebustar 3.6L, Tebuzol 3.6F, Toledo 3.6F	6 fl oz	24 fl oz	7	0.5	Restricted-entry time is 19 days.
	3	Topguard (flutriafol)	14 fl oz	28 fl oz	7	3	No more than 2 applications per year.
	3	Xyway LFR (flutriafol)	15.2 fl oz	5.8–15.2 fl oz	–	0.5	Apply to corn in-furrow at planting or postemergence directed to the soil.
	3 + M2	Unicorn (tebuconazole + sulfur)	3.75 lb	15.0 lb	14	19	See label for details and rotational restrictions.
	3 + 7	Revylok (mefentrifluconazole + fluxapyroxad)	15 fl oz	30 fl oz	21	0.5	No more than 2 applications per season.
	3 + 7	Propulse (prothioconazole + fluopyram)	27.4 fl oz	13.7 fl oz	0	0.5	No more than 2 sequential applications.
	3 + 7 + 11	Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin)	13.7 fl oz	44.5 fl oz	14	0.5	No more than 2 sequential applications.
	3 + 7 + 11	Revytek (mefentrifluconazole + fluxapyroxad + pyraclostrobin)	15 fl oz	30 fl oz	21	0.5	See label for details.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
	3 + 7 + 11	Trivapro (propiconazole + benzovindiflupyr + azoxystrobin)	13.7 fl oz	54.8 fl oz	14	0.5	No more than 2 sequential applications before alternating with a fungicide of dissimilar mode of action.
	3 + 11	Delaro (prothioconazole + trifloxystrobin)	8 fl oz	32 fl oz	Forage and ears: 0 Fodder: 14	0.5	No more than 2 sequential applications.
	3 + 11	Veltyma (mefentrifluconazole + pyraclostrobin)	10 fl oz	30 fl oz	21	0.5	No more than 3 applications of 10 fl oz/A or 4 applications of 7 fl oz/A.
	3 + 33	Viathon (tebuconazole + potassium phosphite)	3.0 pt	16.5 pt	7	0.5	See label for details and rotational restrictions.
	7	Vertisan (penthioopyrad)	24 fl oz	48 fl oz	7	0.5	Soil and foliar treatments.
	7 + 11	Elatus (benzovindiflupyr + azoxystrobin)	7.3 oz	14.6 fl oz	7	0.5	Alternate with fungicides of dissimilar modes of action.
	11	Aftershock (fluoxastrobin)	Foliar: 3.8 fl oz	15.27 fl oz	7	0.5	Soil and foliar treatments.
	11	Approach (picoxystrobin)	12 fl oz	36 fl oz	7	0.5	See label for details.
	11	Evito 480SC (fluoxastrobin)	3.8 fl oz	15.2 fl oz	7	0.5	No more than 2 sequential applications and 4 total applications.
	11	Headline (pyraclostrobin)	12 fl oz	72 fl oz	7	0.5	No more than 2 sequential applications and 6 total applications of Headline or other Qol fungicides.
	11	Headline SC (pyraclostrobin)	12 fl oz	72 fl oz	7	0.5	No more than 2 sequential applications and 6 total applications of Headline or other Qol fungicides.
	11	Quadris (azoxystrobin)	15.4 fl oz or 0.8 fl oz/1000 row ft	2.88 qt	7	4 hr	No more than 2 sequential applications and 4 total applications of Quadris or other Qol fungicides. See label for soil applications.
	11	Willowood Azoxy 2 SC (azoxystrobin)	15.5 fl oz	62 fl oz	7	4 hr	No more than 2 sequential applications.
	11 + 3	Avaris (azoxystrobin + propiconazole)	14 fl oz	56 fl oz	14	0.5	See label for details.
	11 + 3	Custodia (azoxystrobin + tebuconazole)	12.9 fl oz	51.7 fl oz	21	0.5	See label for details.
	11 + 3	Evito T (fluoxastrobin + tebuconazole)	9 fl oz	36 fl oz	7	19	No more than 2 sequential applications and 4 total applications.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
	11 + 3	Headline AMP (pyraclostrobin + metconazole)	14.4 fl oz	57.6 fl oz	–	0.5	No more than 2 sequential applications and 4 total applications.
	11 + 3	Quilt XCEL (azoxystrobin + propiconazole)	14 fl oz	56 fl oz	14	0.5	Alternate every other application with a fungicide of dissimilar mode of action.
	11 + 3	Stratego (trifloxystrobin + propiconazole)	12 fl oz	24 fl oz	0	0.5	No more than 2 sequential applications.
	11 + 3	Stratego YLD (trifloxystrobin + propiconazole)	5 fl oz	20 fl oz	0	0.5	No more than 2 sequential applications.
	11 + 3	Topguard EQ (flutriafol + azoxystrobin)	7 fl oz	14 fl oz	–	3	No more than 2 applications per season.
	11 + 3	Veltyma (pyraclostrobin + mefentrifluconazole)	10 fl oz	20 fl oz	21	0.5	See label for details.
	11 + 7	Priaxor (pyraclostrobin + fluxapyroxad)	8 fl oz	16 fl oz	7	0.5	See label for details.
Powdery mildew rust	M2	(sulfur) Many brands available: Microfine Sulfur, Sulfur 90W, Top Cop with Sulfur, Yellow Jacket Wettable Sulfur	SEE INDIVIDUAL LABELS	SEE INDIVIDUAL LABELS	1	1	Do not apply during periods of warm weather. Do not apply within 2 weeks of an oil spray.
Pythium seedling blight Systemic downy mildew	4	(metalaxyl) Various brands available: Acceleron, Acquire, Allegiance, Sebring 2.65ST	3 fl oz/100 lb seed	–	–	1	Seed treatment only.
	4	Apron XL (mefenoxam)	2.2 fl oz/100 lb seed	–	–	2	Seed treatment only.
	33	(mono- and dipotassium salts of phosphorous acid) Various brands available: Confine Extra, K-phite	3 qt	–	0	4 hr	See label for details.
Rhizoctonia root and stalk rot diseases	11	Aftershock (fluoxastrobin)	Soil: 0.24 fl oz/1000 ft of row	15.2 fl oz	7	0.5	Soil and foliar treatments. See label for details.
Tar spot	3 + 7	Revyllok (mefentrifluconazole + fluxapyroxad)	15 fl oz	30 fl oz	21	0.5	No more than 2 applications per season.
	3 + 7 + 11	Delaro Complete (prothioconazole + fluopyram + trifloxystrobin)	8 fl oz	32 fl oz	Forage and ears: 0 Fodder: 14	0.5	No more than 2 sequential applications.

Pertinent Diseases or Pathogens	Fungicide Group ¹	Chemical (Active Ingredients)	Max Rate/Acre		Min. Days to		Remarks ²
			Appl.	Season	Harvest	Reentry	
	3 + 7 + 11	Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin)	13.7 fl oz	44.5 fl oz	14	0.5	No more than 2 sequential applications.
	3 + 7 + 11	Revyttek (mefentrifluconazole + fluxapyroxad + pyraclostrobin)	15 fl oz	30 fl oz	21	0.5	See label for details.
	3 + 7 + 11	Trivapro (propiconazole + benzovindiflupyr + azoxystrobin)	13.7 fl oz	54.8 fl oz	14	0.5	No more than 2 sequential applications before alternating with a fungicide of dissimilar mode of action.
	3 + 11	Delaro (prothioconazole + trifloxystrobin)	8 fl oz	32 fl oz	Forage and ears: 0 Fodder: 14	0.5	No more than 2 sequential applications
	3 + 11	Veltyma (mefentrifluconazole + pyraclostrobin)	10 fl oz	30 fl oz	21	0.5	No more than 3 applications of 10 fl oz/A or 4 applications of 7 fl oz/A.
Various seedling diseases	1	Thiabendazole 4L ST (thiabendazole)	0.41 fl oz/80,000 kernel count	–	–	0.5	–
	1 + 4 + 11 + 12	Maxim Quattro (thiabendazole + mefenoxam + azoxystrobin + fludioxonil)	–	–	–	0.5	Seed treatment only.
	3	Difenoconazole 3L ST (difenoconazole)	1.25 fl oz/100 lb of seed	–	–	0.5	Seed treatment only.
	3 + 4	EverGol Energy (metalaxyl + prothioconazole)	2 fl oz/100 lb of seed	–	–	0.5	Seed treatment only.
	4 + 14 + NC	System 3 (mefenoxam + PCNB + <i>Bacillus subtilis</i> GB03)	3 oz/bu of seed	–	–	1	Seed treatment only.
	7	Kernel Guard Supreme (carboxin + permethrin)	–	–	–	0.5	Seed treatment only.
	11	Stamina (pyraclostrobin)	1.6 fl oz/100 lb of seed	–	–	–	Seed treatment only.
	12	(fludioxonil) Various brands available: Dyna-Shield, Maxim 4FS, Spirato 480 FS	0.16 fl oz/100 lb of seed	–	–	0.5	Seed treatment only.
	14	Rizolex (tolclofos-methyl)	0.3 fl oz/100 lb of seed	–	–	0.5	Seed treatment only.

¹FRAC code (fungicide group): Number (1–54) and letters are used to distinguish the fungicide mode of action groups. All fungicides within the same group (with same number or letter) indicate the same active ingredient or similar mode of action. This information must be considered for the fungicide resistance management decisions. Source: FRAC Code List 2024 <http://www.frac.info/> (FRAC = Fungicide Resistance Action Committee).

²Information provided in this table applies only to Florida. Be sure to read a current product label before applying any chemical. The use of brand names and any mention or listing of commercial products or services in the publication does not imply endorsement by UF/IFAS Extension nor discrimination against similar products or services not mentioned.

Table 8. Nonfumigant nematicides for sweet corn in Florida. Contact: Johan Desaegeer, UF/IFAS Gulf Coast Research and Education Center.

Product	Broadcast or Overall Rates		Row Rates	
	Per Acre	Per 1000 sq ft	Per Acre, 36" Row Spacing	Per 1000 ft of Row, Any Row Spacing
Counter 15G (terbufos)*	–	–	5.4–7.3 lb	6.0–8.0 oz
Mocap 15G (ethoprophos)**	40 lb	0.9 lb	10.8–14.8 lb	0.75–1.0 lb
Velum (fluopyram)	Apply 6.5–6.8 fl oz/A either by in-furrow spray during planting directed on or below seed, or by chemigation into root zone through low-pressure drip or trickle irrigation. No more than 6.84 fl oz/A of Velum (0.446 lb/A of fluopyram) per year, regardless of formulation or method of application (soil or foliar). Do not apply Velum within 14 days of harvest. Do not allow livestock to graze treated area for 14 days, and do not harvest for food or feed within 14 days of application.			
Biological nematicides	See chapter 19.			

*Apply banded or in the row not to exceed 8.7 lb/A.

**Do not allow Mocap to come in contact with seed. Apply as a 12- to 15-inch band treatment, incorporating Mocap product according to label instructions.

These products are not as consistently effective against root-knot nematodes as the fumigants but are registered as indicated.

Table 9. Fumigant nematicides for sweet corn in Florida.

Nematicide	Broadcast Application ¹		In-the-Row Applications
	Gallons per Acre	fl oz/1000 ft/chisel spaced 12" apart	
Telone II ^{2, 3}	9–12	26–35	For any row spacing, application rates given may be concentrated in the row but shall never exceed the labeled maximum for broadcast applications. Consult the product label for additional detail.
Telone C-17 ^{2, 3}	10.8–17.1	31.8–50.2	For any row spacing, application rates given may be concentrated in the row but shall never exceed the labeled maximum for broadcast applications. Consult the product label for additional detail.
Telone C-35 ^{2, 3}	13–20.5	38–60	For any row spacing, application rates given may be concentrated in the row but shall never exceed labeled maximum for broadcast applications. Consult the product label for additional detail.
Pic-Clor 60	19–31.5	57–90	For any row spacing, application rates should never exceed the labeled maximum for broadcast applications. Consult the product label for additional detail.
Vapam HL	75	–	For drip or in-row chisel fumigation, consult product label for proportionately reduced overall rates, drip concentration, and flow-modifying directions and procedures.
KPam HL	60	–	For drip or in-row chisel fumigation, consult product label for proportionately reduced overall rates, drip concentration, and flow-modifying directions.
Allyl isothiocyanate (AITC) Dominus	40	–	For drip or in-row fumigation and crop termination, consult product label for proportionately reduced overall rates, drip concentration, and flow-modifying directions

¹Gallons/acre and fl oz/1000 feet provided only for mineral soils. Higher rates may be possible for heavier-textured (loam, silt, clay) or highly organic soils.

²All of the fumigants mentioned are for retail sale and use only by state certified applicators or persons under their direct supervision. New supplemental labeling for the Telone products must be in the hands of the user at the time of application. See new label details for additional use restrictions based on soil characteristics, buffer zones, Fumigant Management Plans (FMP), requirements for Personal Protective Equipment (PPE), mandatory good agricultural practices (GAPs), product and applicator training certification, and other rate-modifying recommendations.

³Higher application rates are possible in the presence of cyst-forming nematodes.

Rates are believed to be correct for products named and similar products of other brand names when applied to mineral soils. Higher rates are required for muck (organic) soils. However, the **grower** has the final responsibility to see that each product is used legally; **read the label** of the product to be sure that you are using it properly.