

Chapter 17. Sweet Corn Production¹

Ramdas Kanissery, Eugene J. McAvoy, Craig Frey, Richard N. Raid, Johan Desaeger, and Julien Beuzelin²

Botany and Planting

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

Table 1. Planting information for sweet corn.

| Planting Dates | |
|------------------------------|---------------|
| North Florida | Feb–Apr |
| Central Florida | Jan–Apr |
| South Florida | Oct–Mar |
| Planting Information | |
| 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. Ramdas Kanissery, assistant professor, Horticultural Sciences Department, UF/IFAS Southwest Florida Research and Education Center; Eugene McAvoy, Extension agent IV emeritus, UF/IFAS Southwest Florida REC; Craig Frey, county Extension director and Extension agent II, UF/IFAS Extension Hendry County; Richard N. Raid, professor, Plant Pathology Department; Johan Desaeger, assistant professor, Entomology and Nematology Department, UF/IFAS Gulf Coast REC; and Julien Beuzelin, assistant professor, Entomology and Nematology Department, UF/IFAS Everglades REC; UF/IFAS Extension, Gainesville, FL 32611.

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

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Cultivars

Table 2. Description of major sweet corn cultivars currently available.

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

Table 3. Supersweet (shrunken-2) sweet corn cultivars arranged by kernel color.

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

Table 4. Herbicides approved for managing weeds in sweetcorn.

| Active Ingredient lb a.i./Acre | Trade Name Product/ Acre | MOA Code | Weeds Controlled/Remarks |
|--|---|-------------|---|
| Labels change frequently. Be sure to read a current product label before applying any chemical. | | | |
| *** 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. Do not exceed 2.5 lb a.i./A per calendar year. Consult labels for plant-back restrictions on rotational crops. |
| Carfentrazone up to 0.031 | (Aim) 1.9 EW up to 2 fl oz (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. Maximum rate of 0.096 lb a.i./A per season. No pretransplant interval. |
| Dimethenamid-P 0.56–0.84 | (Outlook, Slider) 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 to 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. |
| 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. Do not exceed 7.7 fl oz/A per season. |
| Paraquat 0.5–1.0 | (Gramoxone) 2 SL 2.0–4.0 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 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 to 1 in. of rainfall or irrigation. Do not exceed 3.9 pt/A per crop year depending on soil texture. |

| Active Ingredient lb a.i./Acre | Trade Name Product/ Acre | MOA Code | Weeds Controlled/Remarks |
|---|---|-------------|--|
| *** 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 in. tall and before corn exceeds 12 inches in height. Do not exceed 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 | 6 | Certain broadleaf and sedge weeds. Consult label for weeds controlled/weed size table. Do not apply more than 4 pt/A per season. |
| Carfentrazone 0.008–0.016 | (Aim) 1.9 EW 0.5–1.0 fl oz (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. Do not apply more than 2.0 fl oz/A per season including preplant burndown and crop application. PHI 3 days. |
| Halosulfuron 0.03–0.05 | (Sanda) 75 DF 0.6–1.0 oz | 2 | Broadleaf and nutsedge weeds. Apply over the top or with drop nozzles from the spike to the layby stage of corn. A sequential application of 0.66 oz/A may be with drop nozzles to avoid application to 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 in. 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. Do not exceed 7.7 fl oz/A per season. |
| 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', 'Lorsban', or 'Thimet' insecticides because this may result in injury. Consult label for acceptable insecticides. Apply broadcast to corn plants less than 12 in. tall. Apply with drop nozzles to direct spray to corn plants 12–18 in. 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 in. tall until corn is 20 to 24 in. 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 in. Use a lower rate on lighter soils. Weed control is increased with 0.5 to 1 in. of rainfall or irrigation. Do not exceed 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. Do not exceed 3 fl oz/A per season. |
| Topramezone 0.020–0.022 | (Armezone, 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 5. Insecticides labeled for management of arthropod pests of sweet corn.

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---|----------------------------------|---|---|---|--|---|
| 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. | | | | | | |
| 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 | Maximum of 2 applications per year. Crop injury may occur in the whorl to silking stages. |
| | 1B | Lorsban 75WG *Lorsban Advanced Lorsban 15G (chlorpyrifos) | 75WG: 0.33–1.33 lb Advanced: 1.0–2.0 pt 15G: 8 oz per 1000 ft of row | 24 | 75WG, Advanced: Ears, forage: 21 15G: at planting | Do not feed treated corn silage, forage, or fodder, or allow livestock to graze. Maximum of 3 applications of any product containing chlorpyrifos per season. Other brands available with same active ingredient. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Brigade 2EC (bifenthrin) | 2.1–6.4 fl oz | 12 | 1 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands 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. Maximum of 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.8–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.8–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | PyGanic Crop Protection EC 5.0 (pyrethrins) | 4.5–15.6 fl oz | 12 | 0 | Thorough coverage is essential. Breaks down rapidly in sunlight. OMRH-listed ² . |
| 3A | *Warrior II (lambda-cyhalothrin) | 1.28–1.92 fl oz | 24 | Ears (foliar): 1 For feeding livestock or at-plant applications: 21 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. | |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|---|--|-------------|----------------------------------|---|
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 3A + - | Azera (pyrethrins + azadirachtin) | 16–56 fl oz | 12 | 0 | OMRI-listed ² . |
| | 4A | Assail 30SG Assail 70WP (acetamiprid) | 30SG: 2.1–2.9 oz 70WP: 0.9–1.2 oz | 12 | 1 | 30SG: Maximum of 11.2 oz/acre or 0.21 lb a.i. per year. 70WP: Maximum of 4.8 oz/acre or 0.21 lb a.i. per year. Other brands available with same active ingredient. |
| | 4A + 15 | Cormoran (acetamiprid + novaluron) | 9–12 fl oz | 12 | 7 | Maximum of 40 fl oz/acre 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 | Maximum of 3.0 oz/acre per year. |
| | 4D | Sivanto Prime (flupyradifurone) | 7.0–14.0 fl oz | 4 | Ears and forage: 7 Stover: 21 | Maximum of 28 fl oz/acre per year. |
| | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . |
| | - | BotaniGard ES BoteGHA ES Mycotrol ESO (<i>Beauveria bassiana</i> strain GHA) | 0.25–1 qt | 4 | 0 | Apply in sufficient water to cover foliage, typically 5–100 gallon/acre. Compatible in tank mix with some fungicides. Mycotrol ESO OMRI-listed ² . |
| | - | Grandevo (<i>Chromobacterium subsugae</i> strain PRAA4-1) | 2–3 lb | 4 | 0 | OMRI-listed ² . |
| | - | Molt-X (azadirachtin) | 10 fl oz | 4 | 0 | OMRI-listed ² . |
| | - | Neemix 4.5 (azadirachtin) | 4–16 fl oz | 4 | 0 | OMRI-listed ² . |
| | - | Oil, insecticidal (e.g., Suffoil-X) | 1–2 gal/100 gal, depending on brand | 4 | 0 | OMRI-listed ² , depending on brand. |
| | - | Trilogy (extract of neem oil) | 1.0%–2.0% v/v | 4 | 0 | Apply morning or evening to reduce potential for leaf burn. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---|-----------------------|---|--|--------------------------------------|--|--|
| 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 | Maximum of 16 qt/acre per crop per year. |
| | 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 | Only one application (at planting, postemergence incorporated, or cultivation time treatment) per season. Do not exceed 8.7 lb/acre. 20G formulation also available. |
| | 1B | Fyfanon Fyfanon 57% EC ULV AG (malathion) | Fyfanon, 57% EC: 1.5 pt ULV AG: 4–8 fl oz | 12 | 5 | Maximum of 2 applications per year. Crop injury may occur in the whorl to silking stages. |
| | 1B | *Thimet 20-G (phorate) | 4.5–6.0 oz per 1000 ft of row | 48 | at planting | One application per season, no more than 6.5 lb/acre per season. |
| | 1B + 3A | *Cobalt Advanced (chlorpyrifos + lambda-cyhalothrin) | 6–42 fl oz | 24 | 21 | See label for application methods and many restrictions. |
| | 3A | *Ambush 25W (permethrin) | 6.4–16.0 oz | 12 | 1 | Do not apply more than 2.0 lb a.i./acre per season. Rates above 12.8 oz are for Florida only. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Baythroid XL (beta-cyfluthrin) | 0.8–2.8 fl oz | 12 | 0 | Maximum of 28 fl oz/acre per season. Maximum of 10 applications. |
| | 3A | *Brigade 2EC (bifenthrin) | 2.1–6.4 fl oz | 12 | 1 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands 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. Maximum of 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Declare (gamma-cyhalothrin) | 1.02–1.54 fl | 24 | Ears: 1 Fodder: 21 | Maximum of 24.6 fl oz/acre per crop. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.2–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|--|--|-------------|--|---|
| | 3A | *Force 3G (tefluthrin) | Variable depending on row spacing | 0 | At planting or cultivation within 30 days of seedling emergence | Only one application per crop. Granules must be incorporated. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cyhalothrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.24–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | PyGanic Crop Protection EC 5.0 (pyrethrins) | 4.5–15.6 fl oz | 12 | 0 | Thorough coverage is essential. Breaks down rapidly in sunlight. OMRI-listed 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 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 3A + - | Azera (pyrethrins + azadirachtin) | 16–56 fl oz | 12 | 0 | OMRI-listed ² . |
| | 4A | Assail 30SG Assail 70WP (acetamiprid) | 30SG: 4.0–5.3 oz 70WP: 1.7–2.3 oz | 12 | 7 | 30SG: Maximum of 11.2 oz/acre or 0.21 lb a.i. per year. 70WP: Maximum of 4.8 oz/acre or 0.21 lb a.i. per year. Other brands available with same active ingredient. |
| | 4A + 15 | Cormoran (acetamiprid + novaluron) | 9–12 fl oz | 12 | 7 | Maximum of 40 fl oz/acre 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 | Maximum of 60 fl oz/acre per season. |
| | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . |
| | - | Grandevo (<i>Chromobacterium subsugae</i> strain PRAA4-1) | 2–3 lb | 4 | 0 | OMRI-listed ² . |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|--|-----------------------|---|--|--------------------------------------|---|--|
| 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. Maximum of 30 lb/acre 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 | Maximum of 16 qt/acre per crop per year. |
| | 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 | Only one application (at planting, postemergence incorporated, or cultivation time treatment) per season. Do not exceed 8.7 lb/acre. 20G formulation also available. |
| | 1B | Fyfanon Fyfanon 57% EC (malathion) | 1.5 pt | 12 | 5 | Maximum of 2 applications per year. Crop injury may occur in the whorl to silking stages. |
| | 1B | Lorsban 75WG *Lorsban Advanced Lorsban 15G (chlorpyrifos) | 75WG: 0.33–1.33 lb Advanced: 1.0–2.0 pt 15G: 8 oz per 1000 ft of row | 24 | 75WG, Advanced: Ears, forage: 21 15G: at planting | Do not feed treated corn silage, forage, or fodder, or allow livestock to graze. Maximum of 3 applications of any product containing chlorpyrifos per season. Other brands available with same active ingredient. See 24(c) SLN for Lorsban Advanced for control of beet armyworm, fall armyworm, and corn earworm larvae (7 day PHI). |
| | 1B | *Mocap 15G (ethoprop) | See label. | 48 | at planting | One application per growing season. |
| | 1B + 3A | *Cobalt Advanced (chlorpyrifos + lambda-cyhalothrin) | 6–42 fl oz | 24 | 21 | See label for application methods and many restrictions. |
| | 3A | *Ambush 25W (permethrin) | 6.4–16.0 oz | 12 | 1 | Do not apply more than 2.0 lb a.i./acre per season. Rates above 12.8 oz are for Florida only. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Baythroid XL (beta-cyfluthrin) | 0.8–2.8 fl oz | 12 | 0 | Maximum of 28 fl oz/acre per season. Maximum of 10 applications. |
| | 3A | *Brigade 2EC (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 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|--|--|-------------|---|--|
| | 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 Ears: 1 Fodder: 21 | For mixing with liquid fertilizer. Maximum of 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Declare (gamma-cyhalothrin) | 1.02–1.54 fl oz | 24 | Ears: 1 Fodder: 21 | Maximum of 24.6 fl oz/acre per crop. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.2–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Force 3G (tefluthrin) | Depends on row spacing | 0 | At planting or cultivation within 30 days of seedling emergence | Only one application per crop. Granules must be incorporated. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.24–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | PyGanic Crop Protection EC 5.0 (pyrethrins) | 4.5–15.6 fl oz | 12 | 0 | Thorough coverage is essential. Breaks down rapidly in sunlight. OMRI-listed 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 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 3A + - | Azera (pyrethrins + azadirachtin) | 16–56 fl oz | 12 | 0 | OMRI-listed ² . |
| | 4A + 15 | Cormoran (acetamiprid + novaluron) | 9–12 fl oz | 12 | 7 | Maximum of 40 fl oz/acre per season or 0.39 lb a.i. novaluron and 0.21 lb a.i. acetamiprid per year. |
| | 5 | Entrust SC (spinosad) | 1.5–6.0 fl oz | 4 | Ears: 1 Forage: 7 Fodder: 28 | Maximum of 29 fl oz/acre per year or 6 applications. OMRI-listed ² . |
| | 5 | Radiant SC (spinetoram) | 3–6 fl oz | 4 | Ears: 1 Forage or fodder: 3 | Maximum of 36 fl oz/acre per year or 6 applications. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|---|---|----------------------------------|--------------------------------------|--|
| | 5 + 18 | Intrepid Edge (spinetoram + methoxyfenozide) | 4–12 fl oz | 4 | Ears and methoxyfenozide, fodder: 3 | Maximum of 51 fl oz/acre per year (1 lb a.i. forage, 21 dry 0.2 lb a.i. spinetoram) or 6 applications. |
| | 11A | Agree WG (<i>Bacillus thuringiensis</i> subspecies <i>aizawai</i>) | 1.0–2.0 lb | 4 | 0 | Apply when larvae are small for best control. OMRI-listed ² . |
| | 11A | Biobit HP (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>) | 0.5–2.0 lb | 4 | 0 | Treat when larvae are young. Good coverage is essential. Can be used in the greenhouse. OMRI-listed ² . |
| | 11A | Crymax WDG (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>) | 0.5–2.0 lb | 4 | 0 | Use high rate for armyworms. Treat when larvae are young. Not for organic production. |
| | 11A | Deliver (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>) | 0.25–1.5 lb | 4 | 0 | Use higher rates for armyworms. OMRI-listed ² . |
| | 11A | DiPel DF (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>) | 0.5–2.0 lb | 4 | 0 | Treat when larvae are young. Good coverage is essential. For organic production. |
| | 11A | Javelin WG (<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i>) | 0.12–1.50 lb | 4 | 0 | Treat when larvae are young. Thorough coverage is essential. OMRI-listed ² . |
| | 11A | Xentari DF (<i>Bacillus thuringiensis</i> subspecies <i>aizawai</i>) | 0.5–2.0 lb | 4 | 0 | Treat when larvae are young. Thorough coverage is essential. May be used in the greenhouse. Can be used in organic production. |
| | 15 | Rimon 0.83EC (novaluron) | 6–12 fl oz | 12 | 1 | Maximum of 60 fl oz/acre per season. |
| | 18 | Intrepid 2F (methoxyfenozide) | 4–16 fl oz | 4 | Ears and forage: 3 Dry fodder: 21 | Maximum of 64 fl oz/acre per year. Other brands 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 | Whorl stage through tassel push applications only. Maximum of 14 oz/acre per crop, or 4 applications/acre per crop, or 42 oz/acre per year. |
| | 28 | Coragen (chlorantraniliprole) | 3.5–7.5 fl oz | 4 | 1 | Foliar only. Maximum of 15.4 fl oz/acre, or 4 applications, or 0.2 lb a.i./acre 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 | Can be applied by overhead sprinkler chemigation system. Maximum of 5.1 fl oz/acre, or 4 applications, or 0.2 lb a.i./acre chlorantraniliprole per year. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|--|--|--------------------------------------|---|--|
| | 32 | Spear-Lep (GS-omega/kappa-Hxtx-Hv1a) | 1–2 pt | 4 | 0 | Must be tank-mixed with a <i>Bacillus thuringiensis</i> (Bt) product. Maximum of 10 gallons/acre per year. |
| | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . |
| | - | Grandevo (<i>Chromobacterium subsugae</i> strain PRAA4-1) | 1–3 lb | 4 | 0 | OMRI-listed ² |
| | - | Molt-X (azadirachtin) | 10 fl oz | 4 | 0 | OMRI-listed ² |
| | - | Neemix 4.5 (azadirachtin) | 4–16 fl oz | 4 | 0 | OMRI-listed ² |
| | - | Oil, insecticidal | 1–2 gal/100 gal, depending on brand | 4 | 0 | |
| Chinch bugs | 1A | Sevin 4F Sevin XLR Plus (carbaryl) | 1–2 qt | 24 (21 days for detasseling workers) | Ears: 2 Forage: 14 Fodder: 48 | Maximum of 16 qt/acre per crop per year. |
| | 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 | Only one application (at planting, postemergence incorporated, or cultivation time treatment) per season. Do not exceed 8.7 lb/acre. 20G formulation also available. |
| | 1B + 3A | *Cobalt Advanced (chlorpyrifos + lambda-cyhalothrin) | 6–42 fl oz | 24 | 21 | See label for application methods and many restrictions. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Baythroid XL (beta-cyfluthrin) | 0.8–2.8 fl oz | 12 | 0 | Maximum of 28 fl oz/acre per season. Maximum of 10 applications. |
| | 3A | *Brigade 2EC (bifenthrin) | 2.1–6.4 fl oz | 12 | 1 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.2–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Force 3G (tefluthrin) | Depends on row spacing | 0 | At planting or cultivation within 30 days of seedling emergence | Only one application per crop. Granules must be incorporated. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|---|---------------------|-------------|----------------------------------|--|
| Corn silk flies | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.24–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | *Warrior II (lambda-cyhalothrin) | 1.28–1.92 fl oz | 24 | Ears: 1 Feeding livestock: 21 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | - | Grandevo (<i>Chromobacterium subtsugae</i> strain PRAA4-1) | 2–3 lb | 4 | 0 | OMRI-listed ² . |
| | 1B | Fyfanon ULV AG (malathion) | 6–8 fl oz | 12 | 5 | Ultra low volume (ULV) formulation. Maximum of 2 applications per year. |
| | 3A | *Asana XL (esfenvalerate) | 9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Baythroid XL (beta-cyfluthrin) | 0.8–2.8 fl oz | 12 | 0 | Maximum of 28 fl oz/acre per season. Maximum of 10 applications. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.8–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.24–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | *Warrior II (lambda-cyhalothrin) | 1.92 fl oz | 24 | Ears: 1 Feeding livestock: 21 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|---|---|-------------|---|--|
| | 4A | Assail 30SG Assail 70WP (acetamiprid) | 30SG: 5.3 oz 70WP: 2.3 oz | 12 | 7 | 30SG: Maximum of 11.2 oz/acre per growing season. 70WP: Maximum of 4.8 oz/acre or 0.21 lb a.i. per year. Other brands available with same active ingredient. |
| | 4A + 15 | Cormoran (acetamiprid + novaluron) | 12 fl oz | 12 | 7 | Maximum of 40 fl oz/acre 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 | Only one application per crop. Granules must be incorporated. |
| | 7A | Extinguish (S-methoprene) | 1–1.5 lb | 4 | 0 | Slow-acting insect growth regulator (IGR). Best applied early spring and fall where crop will be grown. Colonies will be reduced after three weeks and eliminated after 8 to 10 weeks. May be applied by ground equipment or aerially. |
| Grasshoppers | 1B | Fyfanon Fyfanon 57% EC (malathion) | 1.5 pt | 12 | 5 | Maximum of 2 applications per year. Crop injury may occur in the whorl to silking stages. |
| | 1B | Lorsban 75WG *Lorsban Advanced Lorsban 15G (chlorpyrifos) | 75WG: 0.33–1.33 lb Advanced: 0.5–2.0 pt 15G: 8 oz per 1000 ft of row | 24 | 75WG, Advanced: Ears; forage: 21 15G: at planting | Do not feed treated corn silage, forage, or fodder, or allow livestock to graze. Maximum of 3 applications of any product containing chlorpyrifos per season. Other brands available with same active ingredient. |
| | 1B + 3A | *Cobalt Advanced (chlorpyrifos + lambda-cyhalothrin) | 6–42 fl oz | 24 | 21 | See label for application methods and many restrictions. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Baythroid XL (beta-cyfluthrin) | 0.8–2.8 fl oz | 12 | 0 | Maximum of 28 fl oz/acre per season. Maximum of 10 applications. |
| | 3A | *Brigade 2EC (bifenthrin) | 2.1–6.4 fl oz | 12 | 1 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.8–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|---|---------------------|--------------------------------------|-------------------------------------|---|
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.8–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | *Warrior II (lambda-cyhalothrin) | 1.28–1.92 fl oz | 24 | Ears: 1 Feeding livestock: 21 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 3A + - | Azera (pyrethrins + azadirachtin) | 16–56 fl oz | 12 | 0 | OMRI-listed ² . |
| | 4A + 15 | Cormoran (acetamiprid + novaluron) | 9–12 fl oz | 12 | 7 | Maximum of 40 fl oz/acre 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 | Maximum of 60 fl oz/acre per season. |
| | 28 | Coragen (chlorantraniliprole) | 2.0–5.0 fl oz | 4 | 1 | Foliar only. Maximum of 15.4 fl oz/acre, or 4 applications, or 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 28 | Vantacor (chlorantraniliprole) | 1.2–2.5 fl oz | 4 | 1 | Foliar only. Can be applied by overhead sprinkler chemigation system. Maximum of 5.1 fl oz/acre, or 4 applications, or 0.2 lb a.i./acre 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 | Maximum of 16 qt/acre per crop per year. |
| | 1B | Fyfanon, Fyfanon 57% EC (malathion) | 1.5 pt | 12 | 5 | Maximum of 2 applications per year. Crop injury may occur in the whorl to silking stages. |
| | 3A | *Ambush 25W (permethrin) | 6.4–16.0 oz | 12 | 1 | Do not apply more than 2.0 lb a.i./acre per season. Rates above 12.8 oz are for Florida only. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.2–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 4.0–10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.24–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|--|-----------------------|--|--|---------------------------------------|---|---|
| | 3A | PyGanic Crop Protection EC 5.0 (pyrethrins) | 4.5–15.6 fl oz | 12 | 0 | Thorough coverage is essential. Breaks down rapidly in sunlight. OMRI-listed ² . |
| | 3A | *Warrior II (lambda-cyhalothrin) | 1.28–1.92 fl oz | 24 | Ears: 1 Feeding livestock: 21 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + - | Azera (pyrethrins + azadirachtin) | 16–56 fl oz | 12 | 0 | OMRI-listed ² . |
| | 4D | Sivanto Prime (flupyradifurone) | 7.0–14.0 fl oz | 4 | Ear and forage: 7 Stover: 21 | Maximum of 28 fl oz/acre per year. |
| | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . |
| | - | Molt-X (azadirachtin) | 10 fl oz | 4 | 0 | OMRI-listed ² . |
| 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 detasselling workers) | Ears: 2 Forage: 14 Fodder: 48 | Maximum of 16 qt/acre per crop per year. |
| | 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 | Only one application (at-planting, postemergence incorporated, or cultivation time treatment) per season. Do not exceed 8.7 lb/acre. 20G formulation also available. |
| | 1B | Lorsban 75WG *Lorsban Advanced Lorsban 15G (chlorpyrifos) | 75WG: 0.33–1.33 lb Advanced: 0.5–2.0 pt 15G: 8 oz per 1000 ft of row | 24 | 75WG, Advanced: Ears, forage: 21 15G: at planting | Do not feed treated corn silage, forage, or fodder, or allow livestock to graze. Maximum of 3 applications of any product containing chlorpyrifos per season. Other brands available with same active ingredient. |
| | 1B | *Mocap 15G (ethoprop) | See label | 48 | At planting | One application per growing season. |
| | 1B | *Thimet 20-G (phorate) | At planting or cultivation: 4.5–6.0 oz/1000 ft of row | 48 | Ears, forage: 30 | Maximum of 6.5 lb/acre per season or one application. |
| | 1B + 3A | *Cobalt Advanced (chlorpyrifos + lambda-cyhalothrin) | 6–42 fl oz | 24 | 21 | See label for application methods and many restrictions. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Do not apply more than 0.5 lb a.i./acre per season (10 applications at highest rate). |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|-----------------------|---|---|-------------|--|---|
| | 3A | *Baythroid XL (beta-cyfluthrin) | 0.8–2.8 fl oz | 12 | 0 | Maximum of 28 fl oz/acre per season. Maximum of 10 applications. |
| | 3A | *Brigade 2EC (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 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 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. Maximum of 0.2 lb a.i./acre; per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Force 3G (tefluthrin) | Depends on row spacing | 0 | At planting or cultivation within 30 days of seeding emergence | Only one application per crop. Granules must be incorporated. |
| | 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 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| | 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. |
| | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 3A + - | Azera (pyrethrins + azadirachtin) | 16–56 fl oz | 12 | 0 | OMRI-listed ² . |
| | - | Oil, insecticidal | 1–2 gal/100 gal, depending on brand | 4 | 0 | |
| Spider mites | 1B | *Thimet 20-G (phorate) | 4.5–6.0 oz per 1000 ft of row | 48 | At planting, see label | One application per season, no more than 6.5 lb/acre per season. |
| | 3A | *Brigade 2EC (bifenthrin) | 5.12–6.4 fl oz | 12 | 1 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Hero Insecticide (bifenthrin + zeta-cypermethrin) | 10.3 fl oz | 12 | 3 | Maximum of 27.39 fl oz/acre per season (0.266 lb a.i.). See label when using more than one product containing bifenthrin or zeta-cypermethrin. |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² |
|---------------------|---|--|---------------------|-------------|---|--|
| Tarnished plant bug | 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 7.7–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. |
| | 6 | *Agri-Mek SC (abamectin) | 1.75–3.50 fl oz | 12 | 7 | Must be mixed with a nonionic activator-type wetting, spreading, or penetrating adjuvant. Do not use binder or sticker adjuvant. Maximum of 7 fl oz/acre per year. No more than 2 sequential applications. |
| | 23 | Oberon 25C (spiromesifen) | 5.7–16 fl oz | 12 | Ears, green forage, silage: 5 Grain or stover: 30 | Maximum of 17 fl oz/acre per season or no more than two applications. |
| | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . |
| | - | Grandevo (<i>Chromobacterium</i> <i>subtsugae</i> strain PRAA4-1) | 2–3 lb | 4 | 0 | OMRI-listed ² . |
| | - | Trilogy (extract of neem oil) | 1.0%–2.0% v/v | 4 | 0 | Apply morning or evening to reduce potential for leaf burn. |
| | 3A | *Asana XL (esfenvalerate) | 5.8–9.6 fl oz | 12 | 1 | Maximum of 0.5 lb a.i./acre per season (10 applications at highest rate). |
| | 3A | *Brigade 2EC (bifenthrin) | 2.1–6.4 fl oz | 12 | 1 | Maximum of 12.8 fl oz/acre per season or 0.2 lb a.i./acre per season of all bifenthrin products. Many other brands available with same active ingredient. |
| | 3A | *Fastac CS (alpha-cypermethrin) | 2.8–3.8 fl oz | 12 | 3 | Maximum of 11.4 fl oz/acre per season. |
| | 3A | *Mustang Maxx (zeta-cypermethrin) | 2.24–4.0 fl oz | 12 | 3 | Maximum of 24 fl oz/acre per season. |
| | 3A | *Warrior II (lambda-cyhalothrin) | 1.28–1.92 fl oz | 24 | Ears: 1 Feeding livestock: 21 | Maximum of 30.72 fl oz/acre per crop. Many other brands with same active ingredient are available. |
| 3A + 28 | *Besiege (lambda-cyhalothrin + chlorantraniliprole) | 6–10 fl oz | 24 | 1 | Maximum of 31 fl oz/acre per year. | |
| 3A + 28 | *Elevest (bifenthrin + chlorantraniliprole) | 4.8–9.6 fl oz | 12 | 1 | Maximum of 2 applications/acre per year. Maximum of 0.2 lb a.i./acre bifenthrin and 0.2 lb a.i./acre chlorantraniliprole per year. | |

| Insect or Mite Pest | MOA Code ¹ | Trade Name (Active Ingredient) *Restricted | Rate (Product/Acre) | REI (Hours) | Days to Harvest | Remarks ² | |
|---|-----------------------|---|--|-------------|-----------------|--|---|
| 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 | Only one application (at-planting, postemergence incorporated, or cultivation time treatment) per season. Do not exceed 8.7 lb/acre. 20G formulation also available. | |
| | 1B | Fyfanon Fyfanon 57% EC (malathion) | 1.5 pt | 12 | 5 | Maximum of 2 applications per year. Crop injury may occur in the whorl to silking stages. | |
| | 3A | PyGanic Crop Protection EC 5.0 (pyrethrins) | 4.5–15.6 fl oz | 12 | 0 | Thorough coverage is essential. Breaks down rapidly in sunlight. OMRI-listed ² . | |
| | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . | |
| | - | BotaniGard ES BoteGHA ES Mycotrol ESO (<i>Beauveria bassiana</i> strain GHA) | 0.2–1 qt | 4 | 0 | Apply in sufficient water to cover foliage, typically 5–100 gallon/acre. Compatible in tank mix with some fungicides. Mycotrol ESO OMRI-listed ² . | |
| | - | Grandevo (<i>Chromobacterium substugae</i> strain PRAA4-1) | 2–3 lb | 4 | 0 | OMRI-listed ² . | |
| | - | Molt-X (azadirachtin) | 10 fl oz | 4 | 0 | OMRI-listed ² . | |
| | - | Oil, insecticidal (e.g., Suffoil-X) | 12 gal/100 gal, depending on brand | 4 | 0 | OMRI-listed ² , depending on brand. | |
| | - | Trilogy (extract of neem oil) | 1.0%–2.0% v/v | 4 | 0 | Apply morning or evening to reduce potential for leaf burn. | |
| | Weevils | - | Aza-Direct (azadirachtin) | 1–3.5 pt | 4 | 0 | Antifeedant, repellent, insect growth regulator. OMRI-listed ² . |

¹ Mode of Action (MOA) codes for plant pest insecticides from the Insecticide Resistance Action Committee (IRAC) Mode of Action Classification v. 9.4 March 2020. Number codes (1 through 29) 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 same number) indicate the same active ingredient or similar mode of action. This information must be considered for the insecticide resistance management decisions. - = unknown, or a mode of action that has not been classified yet.

² Information 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. OMRI-listed: Listed by the Organic Materials Review Institute for use in organic production.

* **Restricted use insecticide.**

Table 6. Sweet corn fungicides ordered by disease and then FRAC group according to their mode of action.

| Pertinent Diseases or Pathogens | Fungicide Group ¹ | Chemical (Active Ingredients) | Max Rate/Acre | | Min. Days to | | Remarks ² |
|--|------------------------------|--|--|--|---------------------------------------|---------|--|
| | | | Appl. | Season | Harvest | Reentry | |
| 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. | | | | | | | |
| Bacterial stalk rot | M1 | (copper compounds) Many brands available: Badge X2, Copper Count N, Cueva, Kocide 2000, Kocide 3000, Mastercop, Nu-Cop 50 DF, Top Cop w/Sulfur | SEE INDIVIDUAL LABELS | 1 | Varies by product from 4 hr to 2 days | | |
| | M3 | Defiant 75WP (thiram) | 5.3 oz/100 lb of seed | | | 1 | Seed treatment only. |
| Damping-off seedling blight | M3 | Signet 480FS (thiram) | 5.0 oz/100 lb of seed | | | 1 | Seed treatment only. |
| | 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) | 0.96 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 | Do not exceed 4 total applications. |
| | 3 + 7 + 11 | Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin) | 13.7 fl oz | 44.5 fl oz | 14 | 0.5 | Do not make 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 SC (fluxapyroxad + pyraclostrobin) | 8 fl oz | 16 fl oz | 7 | 0.5 | Alternate with fungicides of dissimilar modes of action. |
| | 11 | Aftershock (fluoxastrobin) | Soil: 0.24 fl oz per 1000 ft of row Foliar: 3.8 fl oz | In furrow: 22.8 fl oz Foliar: 7.6 fl oz | | 0.5 | Soil and foliar treatments. See label for details. |
| | 11 | Evito 480SC (fluoxastrobin) | 3.8 fl oz | 15.2 fl oz | 7 | 0.5 | Do not exceed 2 sequential and 4 total applications. |
| | 11 | Headline (pyraclostrobin) | 12 fl oz | 72 fl oz | 7 | 0.5 | Do not exceed 2 sequential and 6 total applications of Headline or other QoI fungicides. |

| Pertinent Diseases or Pathogens | Fungicide Group ¹ | Chemical (Active Ingredients) | Max Rate/Acre | | Min. Days to | | Remarks ² |
|---------------------------------|------------------------------|--|-------------------------------------|------------|--------------|---------|--|
| | | | Appl. | Season | Harvest | Reentry | |
| | 11 | Headline SC (pyraclostrobin) | 12 fl oz | 72 fl oz | 7 | 0.5 | Do not exceed 2 sequential and 6 total applications of Headline or other QoI fungicides. |
| | 11 | Quadris (azoxystrobin) | 15.4 fl oz or 0.8 fl oz/1000 row ft | 2.88 qt | 7 | 4 hr | Do not exceed 1 sequential and 4 total applications of Quadris or other QoI 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 | Do not exceed 2 sequential and 4 total applications. |
| | 11 + 3 | Headline AMP (pyraclostrobin + metconazole) | 14.4 fl oz | 57.6 fl oz | 7 | 0.5 | Do not exceed 2 sequential and 4 total applications of Headline AMP. |
| | 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 250EC (trifloxystrobin + propiconazole) | 12 fl oz | 24 fl oz | 14 | 0.5 | Do not apply more than 2 sequential applications. |
| | 11 + 3 | Stratego YLD (trifloxystrobin + propiconazole) | 5 fl oz | 20 fl oz | 14 | 0.5 | Do not apply more than 2 sequential applications. |
| | 11 + 3 | Topguard EQ (flutriafol + azoxystrobin) | 7 fl oz | 14 fl oz | | 3 | Make 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 SC (pyraclostrobin + fluxapyroxad) | 8 fl oz | 16 fl oz | 7 | 0.5 | See label for details. |
| 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 | Restricted-entry time is 19 days. |
| | 3 | Topguard (flutriafol) | 14 fl oz | 28 fl oz | 7 | 3 | No more than 2 applications per year. |

| Pertinent Diseases or Pathogens | Fungicide Group ¹ | Chemical (Active Ingredients) | Max Rate/Acre | | Min. Days to | | Remarks ² |
|---|------------------------------|---|------------------------------|------------|--------------|---------|---|
| | | | Appl. | Season | Harvest | Reentry | |
| Northern blight Southern blight Common rust | 3 | Xyway (flutriafol) | 11.8 fl oz | 11.8 fl oz | | 0.5 | Apply single application in-furrow at planting. |
| | 3 + 7 + 11 | Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin) | 13.7 fl oz | 44.5 fl oz | 14 | 0.5 | Do not make more than 2 sequential applications. |
| | 3 + 7 + 11 | Revytek (mefenfluproconazole + 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 SC (pyraclostrobin + fluxapyroxad) | 8 fl oz | 16 fl oz | 7 | 0.5 | Alternate with a fungicide of dissimilar mode of action. |
| | M3 | (mancozeb) Many brands available: Dithane DF Rainshield, Dithane F-45 Rainshield, Dithane M45, Koverall, Manzate DF, Manzate Flowable, Manzate Pro-Stick, Penncozeb 4FL, Penncozeb 75DF, Penncozeb 80WP, Roper DF Rainshield | 1.5 lb | 24 lb | 7 | 1 | Start applications at the first sign of disease. |
| | M5 | (chlorothalonil) Many brands available: Bravo Ultrex, Bravo Weather Stik, Chloronil 720, Chlorothalonil 720 SC, Echo 720, Echo 90DF, Echo ZN, Equus 500 ZN, Equus 720 SST, Equus DF, Initiate 720, Initiate ZN | SEE INDIVIDUAL LABELS | 7 | 0.5 | | |
| | 3 | (propiconazole) Many brands available: Amtide Propiconazole 41.8, Bumper 41.8EC, Fitness, Propiconazole E-AG 41.8EC, Propicure 3.6F, Propimax EC, Propi-Star EC, Shar-Shield PPZ, Tide Propiconazole 41.8 EC, Tilt 3.6EC, Topaz | 4 fl oz | 16 fl oz | 14 | 0.5 | Do not exceed 4 total applications. |
| | 3 | Prosaro (tebuconazole + prothioconazole) | 8.2 fl oz | 26 fl oz | 7 | 0.5 | See label for adjuvant information and rotational restrictions. |

| Pertinent Diseases or Pathogens | Fungicide Group ¹ | Chemical (Active Ingredients) | Max Rate/Acre | | Min. Days to | | Remarks ² |
|---------------------------------|------------------------------|---|--|--|--------------|---------|--|
| | | | Appl. | Season | Harvest | Reentry | |
| | 3 | (tebuconazole) Many brands available: Folicur 3.6F, Monsoon 3.6F, 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 (flutriafol) | 11.8 fl oz | 11.8 fl oz | | 0.5 | Apply single application in-furrow at planting. |
| | 3 + M2 | Unicorn (tebuconazole + sulfur) | 3.75 lb | 15.0 lb | 14 | 19 | See label for details and rotational restrictions. |
| | 3 + 7 | Propulse (prothioconazole + fluopyram) | 27.4 fl oz | 13.7 fl oz | 0 | 0.5 | Do not make more than 2 sequential applications. |
| | 3 + 7 + 11 | Miravis Neo (propiconazole + pydiflumetofen + azoxystrobin) | 13.7 fl oz | 44.5 fl oz | 14 | 0.5 | Do not make more than 2 sequential applications. |
| | 3 + 7 + 11 | Revytek (mefenfluoconazole + 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 | Use no more than 2 sequential applications before alternating with a fungicide of dissimilar mode of action. |
| | 3 + 33 | Viathon (tebuconazole + potassium phosphite) | 3.0 pt | 16.5 pt | 7 | 0.5 | See label for details and rotational restrictions. |
| | 7 | Vertisan (penthiopyrad) | 24 fl oz | 48 fl oz | 7 | 0.5 | Soil and foliar treatments. |
| | 7 + 11 | Elatius (benzovindiflupyr + azoxystrobin) | 7.3 oz | 14.6 fl oz | 7 | 0.5 | Alternate with fungicides of dissimilar modes of action. |
| | 11 | Aftershock (fluoxastrobin) | Soil: 0.24 fl oz per 1000 ft of row Foliar: 3.8 fl oz | In furrow: 22.8 fl oz Foliar: 7.6 fl oz | | 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 | Do not exceed 2 sequential and 4 total applications. |
| | 11 | Headline (pyraclostrobin) | 12 fl oz | 72 fl oz | 7 | 0.5 | Do not exceed 2 sequential and 6 total applications of Headline or other QoI fungicides. |

| Pertinent Diseases or Pathogens | Fungicide Group ¹ | Chemical (Active Ingredients) | Max Rate/Acre | | Min. Days to | | Remarks ² |
|---------------------------------|------------------------------|---|-------------------------------------|------------|--------------|---------|--|
| | | | Appl. | Season | Harvest | Reentry | |
| | 11 | Headline SC (pyraclostrobin) | 12 fl oz | 72 fl oz | 7 | 0.5 | Do not exceed 2 sequential and 6 total applications of Headline or other QoI fungicides. |
| | 11 | Quadris (azoxystrobin) | 15.4 fl oz or 0.8 fl oz/1000 row ft | 2.88 qt | 7 | 4 hr | Do not exceed 2 sequential and 4 total applications of Quadris or other QoI fungicides. See label for soil applications. |
| | 11 | Willowood Azoxy 2 SC (azoxystrobin) | 15.5 fl oz | 62 fl oz | 7 | 4 hr | Do not exceed 2 sequential applications. |
| | 11 + 3 | Avaris (azoxystrobin + propiconazole) | 14 fl oz | 28 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 | Do not exceed 2 sequential and 4 total applications. |
| | 11 + 3 | Headline AMP (pyraclostrobin + metconazole) | 14.4 fl oz | 57.6 fl oz | | 0.5 | Do not exceed 2 sequential and 4 total applications of Headline AMP. |
| | 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 250 EC (trifloxystrobin + propiconazole) | 12 fl oz | 24 fl oz | 0 | 0.5 | Do not apply more than 2 sequential applications. |
| | 11 + 3 | Stratego YLD (trifloxystrobin + propiconazole) | 5 fl oz | 20 fl oz | 0 | 0.5 | Do not apply more than 2 sequential applications. |
| | 11 + 3 | Topguard EQ (flutriafol + azoxystrobin) | 7 fl oz | 14 fl oz | | 3 | Make no more than 2 applications per season. |
| | 11 + 3 | Veltyma (pyraclostrobin + mefenftrifluconazole) | 10 fl oz | 20 fl oz | 21 | 0.5 | See label for details. |
| | 11 + 7 | Priaxor SC (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 | |
| Powdery mildew rust | M2 | (sulfur) Many brands available: Kumulus DF, Microfine Sulfur, Sulfur 90W, Top Cop w/Sulfur, Yellow Jacket Wettable Sulfur | 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 | (metalaxy) 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. |
| Soilborne diseases | 11 | Aftershock (fluoastrobilin) | Soil: 0.24 fl oz per 1000 ft of row Foliar: 3.8 fl oz | | | 0.5 | Soil and foliar treatments. See label for details. |
| Various seedling diseases | 1 | Thiabendazole 4L ST (thiabendazole) | 0.41 fl oz/80,000 kernel | | | 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 (metalaxy + 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. |

| Pertinent Diseases or Pathogens | Fungicide Group ¹ | Chemical (Active Ingredients) | Max Rate/Acre | | Min. Days to | | Remarks ² |
|---------------------------------|------------------------------|-------------------------------|--------------------------|--------|--------------|---------|----------------------|
| | | | Appl. | Season | Harvest | Reentry | |
| | 14 | Rizolex (tolclofos-methyl) | 0.3 fl oz/100 lb of seed | | | 0.5 | Seed treatment only. |

¹ FRAC code (fungicide group): Number (1 through 46) and letters (U and P) 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. U = unknown, or a mode of action that has not been classified yet and is typically associated with another number; P = host plant defense inducers. Source: FRAC Code List 2021 <http://www.frac.info/> (FRAC = Fungicide Resistance Action Committee).

² Information 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 7. Nonfumigant nematicides for sweet corn in Florida.

| 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/acre 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. Do not apply more than 6.84 fl oz of Velum (0.446 lb of fluopyram) per acre 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. | | | |
| *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 8. Fumigant nematicides for sweet corn in Florida.

| Nematicide | Broadcast Application ¹ | | In-the-Row Applications |
|-------------------------------------|------------------------------------|--|---|
| | Gallons or lb per Acre | fl oz/1000 ft/ chisel spaced 12" apart | |
| Telone II ^{2,3} | 9 to 12 gal | 26 to 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 to 17.1 gal | 31.8 to 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 to 20.5 gal | 38 to 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 to 31.5 gal | 57 to 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 gal | - | 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 gal | - | 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 gal | - | For drip or in-row fumigation and crop termination, consult product label for proportionately reduced overall rates, drip concentration, and flow-modifying directions |

¹ Gallons/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.

² All 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.

³ Higher 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.