

Driven by nature. Backed by science.

COMPANION SPRAY PROGRAM · FLORIDA

# Florida Companion Spray Program

**Ultradwarf bermudagrass greens · Sigma Foundation Program**

Add the Sigma Liquid Foundation Program to the sprays already on your calendar. This program follows the timing of the regional fungicide program and puts Sigma in the same tank at every spray.

- **Same tank, no extra trips.** Sigma Bio is a dormant suspension, compatible with most fungicide, insecticide, PGR, wetting agent and fertilizer applications.
- **Weekly rates follow your interval.** Multiply the weekly rate by the weeks between sprays: 2× on a 14-day program, 4× on a 28-day program.
- **Granular foundation underneath.** Sigma 4-4-4 Bio primes the profile at aerification and topdressing.

Build your foundation today. Follow the science.

**31**

sprays with Sigma · 25 fungicide · 4 insecticide · 2 nutrient

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# Florida

**Ultradwarf bermudagrass greens · 7–28 day program**

Ultradwarf bermudagrass greens. Winter protection runs October through February; summer protection and fairy ring and Rhizoctonia zeae prevention run March through August, starting when soils stay above 70°F.

Fungicide and insecticide timing from the Syngenta 2027 Putting Greens · Ultradwarf Bermudagrass · Florida. Sigma AgriScience is not affiliated with BASF or Syngenta.

## Spray calendar · add Sigma to every spray

| # | TIMING | SPRAY ON YOUR PROGRAM · KEY TARGETS | SIGMA RATE | OZ / 1,000 FT² |
|---|---|---|---|---|
| 1 | **Jan 4** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 2 | **Jan 14** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 3 | **Jan 25** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 4 | **Feb 4** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 5 | **Feb 15** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 6 | **Mar 1** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 7 | **Mar 15** | FUNGICIDE Algae, leaf spot, Rhizoctonia, take-all root rot, bermudagrass decline | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 8 | **Mar 29** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 9 | **Apr 5** | INSECTICIDE Mole crickets, billbugs, caterpillars | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 10 | **Apr 12** | FUNGICIDE Algae, leaf spot, Rhizoctonia, take-all root rot, bermudagrass decline | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 11 | **Apr 26** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 12 | **May 10** | FUNGICIDE Algae, leaf spot, Rhizoctonia, take-all root rot, bermudagrass decline | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 13 | **May 17** | INSECTICIDE Billbugs, caterpillars, white grubs | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 14 | **May 24** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 15 | **Jun 7** | FUNGICIDE Algae, leaf spot, Rhizoctonia, take-all root rot, bermudagrass decline | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 16 | **Jun 21** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 17 | **Jul 5** | FUNGICIDE Algae, leaf spot, Rhizoctonia, take-all root rot, bermudagrass decline | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 18 | **Jul 19** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 19 | **Aug 2** | FUNGICIDE Algae, leaf spot, Rhizoctonia, take-all root rot, bermudagrass decline; Pythium | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 20 | **Aug 16** | FUNGICIDE Fairy ring and Rhizoctonia zeae prevention | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 21 | **Aug 30** | NUTRIENT SPRAY Nutrient spray (no program fungicide this window) | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 22 | **Sep 13** | NUTRIENT SPRAY Nutrient spray (no program fungicide this window) | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 23 | **Sep 27** | INSECTICIDE Mole crickets, billbugs, caterpillars | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 24 | **Oct 4** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 25 | **Oct 19** | INSECTICIDE Billbugs, caterpillars, white grubs | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 26 | **Oct 25** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |
| 27 | **Nov 1** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |

| # | TIMING | SPRAY ON YOUR PROGRAM · KEY TARGETS | SIGMA RATE | OZ / 1,000 FT² |
|---|---|---|---|---|
| 28 | **Nov 15** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 29 | **Nov 29** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 30 | **Dec 13** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 2× weekly | **0.5 / 0.5 / 1 / 1 / 1 / 1** |
| 31 | **Dec 27** | FUNGICIDE Leaf spot, Pythium blight, bermudagrass decline, algae | 1× weekly | **0.25 / 0.25 / 0.5 / 0.5 / 0.5 / 0.5** |

Last column, in oz per 1,000 ft²: Sigma Bio / Molasses / Microalgae / Biochar 5m / Seaweed / K-Ferm, sized to the weeks until the next spray.

## Sigma liquid rates by spray interval

| PRODUCT | 7-DAY | 14-DAY | 21-DAY | 28-DAY | OZ / ACRE / WEEK |
|---|---|---|---|---|---|
| **Sigma Bio** · Dormant inoculum | 0.25 | 0.5 | 0.75 | 1 | 11 |
| **Sigma Molasses** · Short-term food: sugars | 0.25 | 0.5 | 0.75 | 1 | 11 |
| **Sigma Microalgae** · Mid-range food: lipids, proteins | 0.5 | 1 | 1.5 | 2 | 22 |
| **Sigma Biochar 5m** · Long-term home: aggregation | 0.5 | 1 | 1.5 | 2 | 22 |
| **Sigma Seaweed** · Carbon food, translocator | 0.5 | 1 | 3 | 4 | 22 / 44 |
| **Sigma K-Ferm** · Bioactive K uptake | 0.5 | 1 | 3 | 4 | 22 / 44 |

oz per 1,000 ft² per spray: the weekly rate times the weeks between sprays. **Seaweed and K-Ferm:** low rate (0.5 oz / 1,000 ft², 22 oz / acre per week) on 7 and 14 day sprays; high rate (1 oz, 44 oz / acre per week) on 3-week and longer intervals, or in arid conditions and heat stress, even on short intervals.

## Granular foundation

- **Jun 1 · Summer aerification**
  Sigma 4-4-4 Bio SGN 110, medium rate 12.5 lb / 1,000 ft² (545 lb / acre), worked in at aerification
- **Aug 1 · Late-summer aerification**
  Sigma 4-4-4 Bio SGN 110, medium rate 12.5 lb / 1,000 ft² (545 lb / acre), worked in at aerification
- **Mar 1 – Oct 31 · topdressing**
  Low rate 6.9 lb / 1,000 ft² (300 lb / acre) every 30–45 days, rolled in and watered
- **Mar 1 – Oct 31 · every 45 days**
  Double Bio rotation: Sigma 0-2-13 Bio 2X SGN 110, 2.3–3.4 lb / 1,000 ft² (100–150 lb / acre). No nitrogen, so it does not push growth

## Notes

- Nematodes: on a spring or fall nematicide program, apply the Sigma liquids 3 days after the nematicide to support root rebound (sting and root-knot sites).
- Sigma rate = the weekly rate × weeks until the next spray (capped at 4 weeks). Spraying more often? Use the 1× or 2× rate.
- Seaweed and K-Ferm: low rate on weekly and 14-day sprays; high rate on 3-week and longer intervals, or in heat and drought stress.

**Tank order.** Fill one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5m, Seaweed, then K-Ferm. Build the scheduled spray on top (nutrients, then W-A-L-E-S). Water in within 36 hours; watch tank partners at pH 8 or higher.

Spray timing and key targets follow the regional program referenced above. Disease and insect product choices remain the superintendent's. Sigma Foundation Program products are not fungicides or insecticides and do not replace them; they ride in the same tank. Sigma liquids supply little NPK by design, so continue your fertility program. Always jar test, confirm state registration, and read and follow label directions. Timing is a guide; adjust for local conditions.