

Driven by nature. Backed by science.

COMPANION SPRAY PROGRAM · SOUTH FLORIDA AND PUERTO RICO

South Florida and Puerto Rico Companion Spray Program

Warm-season 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.

12

sprays with Sigma · 12 fungicide

COMPANION SPRAY PROGRAM · SOUTH FLORIDA AND PUERTO RICO

South Florida and Puerto Rico

Warm-season bermudagrass greens · 14–28 day program

Year-round growth on warm-season greens. The main stresses are long stretches of cloud cover, tropical moisture and heavy seasonal play, with near-daily rain from mid- to late summer.

Fungicide and insecticide timing from the BASF Regional Turf Spray Program S38 · South Florida and Puerto Rico, Warm Season Greens (2021). 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 15**	FUNGICIDE Leaf spots, Microdochium patch; Pythium if needed	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
2	**Feb 15**	FUNGICIDE Fairy ring, leaf spots, Microdochium patch, take-all root rot	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
3	**Mar 15**	FUNGICIDE Fairy ring, take-all root rot	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
4	**Apr 15**	FUNGICIDE Fairy ring, take-all root rot	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
5	**May 15**	FUNGICIDE Fairy ring, leaf spots, mini ring	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
6	**Jun 15**	FUNGICIDE Fairy ring, leaf spots, mini ring	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
7	**Jul 15**	FUNGICIDE Fairy ring, leaf spots, mini ring, summer stress	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
8	**Aug 15**	FUNGICIDE Fairy ring, leaf spots, tropical weather protection	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
9	**Sep 15**	FUNGICIDE Algae, leaf spots, tropical weather protection	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
10	**Oct 15**	FUNGICIDE Take-all root rot	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
11	**Nov 15**	FUNGICIDE Take-all root rot, winter protection	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
12	**Dec 15**	FUNGICIDE Leaf spots, Microdochium patch; Pythium if needed	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**

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 ft^2 (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 ft^2 (545 lb / acre), worked in at aerification
- **Mar 1 – Oct 31 · topdressing**
  Low rate 6.9 lb / 1,000 ft^2 (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 ft^2 (100–150 lb / acre). No nitrogen, so it does not push growth

Notes

- Fungicide sprays are water-in applications in this program; Sigma liquids can ride in the same tank and be watered in with them.
- 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.