

Driven by nature. Backed by science.

COMPANION SPRAY PROGRAM · CENTRAL AND NORTH TEXAS

Central and North Texas Companion Spray Program

Bermudagrass greens, semi-dormant in winter · 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.

15

sprays with Sigma · 11 fungicide · 4 nutrient

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Central and North Texas

Bermudagrass greens, semi-dormant in winter · 14–28 day program

Bermudagrass greens that go semi-dormant. Weather swings quickly: winters can be cold and icy or cloudy and wet for weeks; summers run from hot and humid to hot and dry.

Fungicide and insecticide timing from the BASF Regional Turf Spray Program S24 · Central and North Texas, Bermudagrass 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 Algae, leaf spots, Microdochium patch; Pythium as needed	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
2	**Feb 15**	FUNGICIDE Fairy ring, leaf spots, Microdochium patch, take-all root rot	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
3	**Mar 1**	NUTRIENT SPRAY Nutrient spray (no program fungicide this window)	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
4	**Mar 15**	NUTRIENT SPRAY Nutrient spray (no program fungicide this window)	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
5	**Apr 1**	FUNGICIDE Fairy ring, leaf spots, mini ring	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
6	**May 1**	FUNGICIDE Fairy ring, leaf spots, mini ring	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
7	**Jun 1**	FUNGICIDE Fairy ring, leaf spots, mini ring	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
8	**Jul 1**	FUNGICIDE Fairy ring, leaf spots, mini ring, summer stress	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
9	**Aug 1**	FUNGICIDE Algae, leaf spots, tropical weather protection	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
10	**Sep 1**	FUNGICIDE Algae, leaf spots, take-all root rot	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
11	**Oct 1**	FUNGICIDE Leaf spots, spring dead spot, take-all root rot	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
12	**Nov 1**	FUNGICIDE Leaf spots, spring dead spot, take-all root rot, winter protection	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
13	**Dec 1**	FUNGICIDE Leaf spots; Pythium as needed	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
14	**Dec 15**	NUTRIENT SPRAY Nutrient spray (no program fungicide this window)	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
15	**Dec 29**	NUTRIENT SPRAY Nutrient spray (no program fungicide this window)	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**

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

- **May 20 · Spring aerification**
  Sigma 4-4-4 Bio SGN 110, medium rate 12.5 lb / 1,000 ft² (545 lb / acre), worked in at aerification
- **Jul 15 · Summer aerification**
  Sigma 4-4-4 Bio SGN 110, medium rate 12.5 lb / 1,000 ft² (545 lb / acre), worked in at aerification
- **Apr 1 – Sep 30 · topdressing**
  Low rate 6.9 lb / 1,000 ft² (300 lb / acre) every 30–45 days, rolled in and watered
- **Apr 1 – Sep 30 · 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

- Program lists February/March as one window; it is shown here in mid-February.
- 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.