

Driven by nature. Backed by science.

COMPANION SPRAY PROGRAM · CALIFORNIA

California Companion Spray Program

Bentgrass 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.

21

sprays with Sigma · 18 fungicide · 3 nutrient

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Bentgrass greens · 14 day program

Bentgrass greens on a year-round 14-day rotation: Microdochium patch in winter, then anthracnose, dollar spot, brown patch and Pythium through summer, with fairy ring and take-all in spring.

Fungicide and insecticide timing from the Syngenta 2027 Greens · Bentgrass · California. 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 Microdochium patch	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
2	**Feb 15**	FUNGICIDE Spring disease clean-up, Microdochium patch	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
3	**Mar 15**	FUNGICIDE Dollar spot, leaf spot, Rhizoctonia, take-all, fairy ring	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
4	**Apr 16**	FUNGICIDE Dollar spot, leaf spot, Rhizoctonia, take-all, Pythium, fairy ring	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
5	**Apr 30**	FUNGICIDE Anthracnose, dollar spot, leaf spot, Rhizoctonia	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
6	**May 14**	FUNGICIDE Anthracnose, dollar spot, Rhizoctonia, take-all, leaf spot, Pythium, fairy ring	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
7	**May 28**	FUNGICIDE Anthracnose, dollar spot, Rhizoctonia, leaf spot, Pythium	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
8	**Jun 11**	FUNGICIDE Anthracnose, algae, dollar spot, brown patch, fairy ring	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
9	**Jun 25**	FUNGICIDE Anthracnose, algae, dollar spot, brown patch, Pythium	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
10	**Jul 9**	FUNGICIDE Anthracnose, algae, dollar spot, brown patch, Pythium blight	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
11	**Jul 23**	FUNGICIDE Anthracnose, algae, dollar spot, brown patch, Pythium blight	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
12	**Aug 6**	FUNGICIDE Anthracnose, dollar spot, brown patch, Pythium	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
13	**Aug 20**	FUNGICIDE Anthracnose, algae, Pythium blight, brown patch	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
14	**Sep 3**	FUNGICIDE Anthracnose, algae, dollar spot, brown patch, Pythium	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
15	**Sep 17**	FUNGICIDE Anthracnose, dollar spot, Rhizoctonia, Pythium	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
16	**Oct 1**	FUNGICIDE Dollar spot, leaf spot, Microdochium patch	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
17	**Oct 15**	FUNGICIDE Dollar spot, Microdochium patch, Pythium	4× weekly	**1 / 1 / 2 / 2 / 4 / 4**
18	**Nov 19**	FUNGICIDE Winter diseases incl. snow mold and anthracnose	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
19	**Dec 3**	NUTRIENT SPRAY Nutrient spray (no program fungicide this window)	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
20	**Dec 17**	NUTRIENT SPRAY Nutrient spray (no program fungicide this window)	2× weekly	**0.5 / 0.5 / 1 / 1 / 1 / 1**
21	**Dec 31**	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 ft^2 per spray: the weekly rate times the weeks between sprays. **Seaweed and K-Ferm:** low rate (0.5 oz / 1,000 ft^2, 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

- **Mar 20 · Spring aerification**
  Sigma 4-4-4 Bio SGN 110, medium rate 12.5 lb / 1,000 ft^2 (545 lb / acre), worked in at aerification
- **Sep 20 · Fall aerification**
  Sigma 4-4-4 Bio SGN 110, medium rate 12.5 lb / 1,000 ft^2 (545 lb / acre), worked in at aerification
- **Apr 1 – Oct 31 · topdressing**
  Low rate 6.9 lb / 1,000 ft^2 (300 lb / acre) every 30–45 days, rolled in and watered
- **Apr 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

- Nematodes: if greens are on a nematicide program, apply the Sigma liquids 3 days after the nematicide to support root rebound.
- 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.