

Fast Facts: Resilia™ is the Complete Root Health Solution for Putting Greens

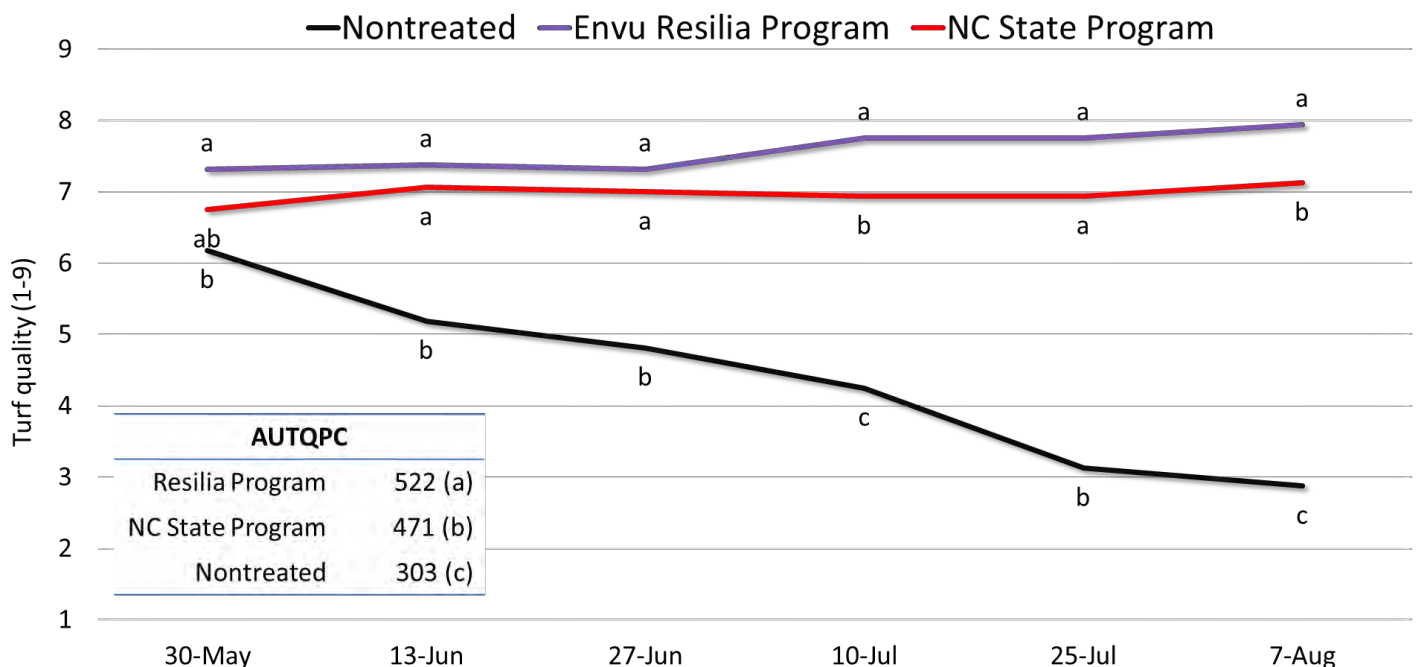
by the Green Solutions Team

Root pathogens negatively impact turf health and putting green performance on golf courses throughout the US. Pythium root rot, fairy ring, summer patch, take-all patch, take-all root rot, spring dead spot, mini ring, and/or nematodes are opportunistic with one weakening roots and allowing infection by others. Resilia is the first all-in-one solution that controls all major turf root pathogens, leading to improved turf performance on both creeping bentgrass and ultradwarf bermudagrass putting greens.

How Resilia works - the proprietary combination of three unique active ingredients:

Active ingredient (brand name)	FRAC Group	Specialty
Prothioconazole (Densicor®)	3	Fairy ring & patch diseases
Propamocarb (Banol®)	28	Soilborne Pythium
Fluopyram (Indemnify®)	7	Pathogenic nematodes

Research with Resilia – In addition to widespread adoption by superintendents, we have collaborated with leading turfgrass pathologists to conduct numerous research projects. One of the trials that produced the most striking results was a summer bentgrass greens program in 2023 at NC State with Dr. Jim Kerns. This site was challenged with Pythium root rot, sting nematodes, *Rhizoctonia zaeae*, and several foliar diseases including brown patch, dollar spot, leaf spot, and Pythium blight.



Program comparisons – Both programs were designed to combat high disease pressure. Each program was applied weekly with a rotation of both foliar applied fungicides and watered-in fungicides for root diseases. There were several similarities between the programs. Each program included biweekly apps of Signature® XTRA Stressgard®. Each program also included three applications of Serata®. The biggest difference between the programs was that the Envu program included four applications of Resilia and the NC State Program included four applications of Lexicon®. The average cost per application (per acre) was approximately \$562.86 for the Envu Program and \$562.98 for the NC State Program.

	Envu Resilia Program	NC State Program
May 17*	Resilia (4 fl oz)	Serata (0.6 fl oz) + Lexicon (0.47 fl oz)
May 24	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)
June 1*	Mirage SG (1 fl oz) + Serata (0.8 fl oz)	Segway (0.45 fl oz)
June 8	Signature XTRA (4 oz) + Interface SG (4 fl oz)	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)
June 15*	Resilia (4 fl oz)	Serata (0.6 fl oz) + Lexicon (0.47 fl oz)
June 22	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)
June 29*	Mirage SG (1 fl oz) + Serata (0.8 fl oz)	Segway (0.45 fl oz)
July 5	Signature XTRA (4 oz) + Interface SG (4 fl oz)	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)
Jul 12*	Resilia (4 fl oz)	Serata (0.6 fl oz) + Lexicon (0.47 fl oz)
Jul 19	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)
Jul 25*	Mirage SG (1 fl oz) + Serata (0.8 fl oz)	Segway (0.45 fl oz)
Aug 2	Signature XTRA (4 oz) + Interface SG (4 fl oz)	Signature XTRA (4 oz) + Daconil Ultrex (3.2 oz)
Aug 9*	Resilia (4 fl oz)	Lexicon (0.47 fl oz)

*Watered in treatment immediately after application

Drone imagery during the trial on August 15th, 2023, and after two fall aerification events

