

TURF MANAGEMENT PROFESSORSHIP ENDOWMENT: JULY 1, 2018 TO JUNE 30, 2019 REPORT.

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The Turf Management Professorship Endowment supports the sole turf faculty position within the Department of Horticulture at Oregon State University. The turf position is a two-way, 9-month appointment, and reflects the land-grant mission of Oregon State University: 50% Teaching and Service; 50% Extension and Applied Research. The Turfgrass Management Professorship Endowment funds the summer portion of my salary, which is the time of year when the majority of efforts will be directed toward research.

ACCOMPLISHMENTS SINCE HIRE (DEC 2012)

- Funding Generated: \$3,701,975
- Stakeholders Reached: 15,478
- Presentations: 276
- Publications: 223
- Press Releases: 59
- Site Visits: 100
- Scientific Presentations: 33
- International Presentations: 21
- Graduate Students: 5

The OSU Turf Program includes Senior Research Assistant Brian McDonald, Research Assistant Emily Braithwaite, PhD Candidate Clint Mattox and Masters of Science Candidate Alyssa Cain.

Brian McDonald, Senior Research Assistant

Mr. McDonald has been a Research Assistant with the OSU Turfgrass Management Program for 19 years. Brian has become an internationally recognized expert on the management of diseases affecting annual bluegrass putting greens. Brian has personally conducted research for trials funded by state, regional, national and international granting associations. He has successfully completed an average of 30 trials per year.



Emily Braithwaite, Research Assistant

Emily joined the OSU Turfgrass Management Program in 2017. Her work has been critical to ensuring the success of 2 multistate grants funded by the United States Department of Agriculture. These grants are titled 1) Low-Input Turf - Fine fescue, and 2) Annual Bluegrass Herbicide Resistance. Emily has also been instrumental in completing a series of field trials on



Turfgrass IPM, also funded by the United States Department of Agriculture.

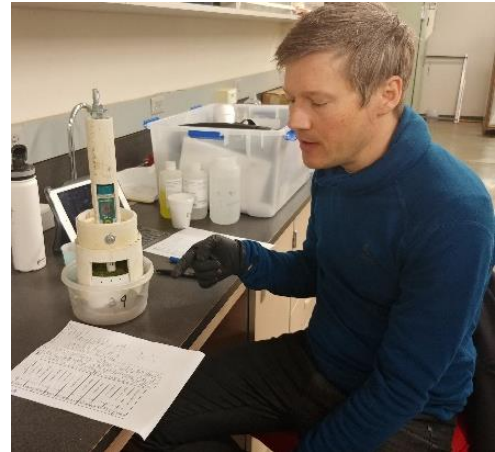
Clint Mattox, Graduate Assistant

Dissertation Research Topic:

Fungicide Alternative Management of Pathogens on Putting Greens

Findings:

Successful fungicide alternatives include the cultural practice of daily rolling, mineral oil, phosphorous acid, iron sulfate, elemental sulfur, and wetting agents. A survey of golf course superintendents determined that 100% are using fungicide alternative products (on their golf courses). Findings from Clint research have been presented in Canada, Denmark, Norway, England, Sweden, New Zealand, Australia, Germany and France, and published in 5 different languages.



Alyssa Cain, Graduate Assistant

Dissertation Research Topic:

Managing Herbicide Resistant Annual Bluegrass

Preliminary Research Update:

In the spring of 2019 annual bluegrass plants were collected from 52 different location in the Central Oregon area. These samples will be screened for herbicide resistance. Stakeholders will be able to selected herbicide that the weed is not resistant to for effective control. In the spring of 2019 a series of field and greenhouse experiments were initiated to explore the effects of irrigation and fertilization practices on annual bluegrass encroachment.



Recent Press Releases produced by the OSU Turf Program:

Spring and Summer Lawn Care Tips and Tricks. Grass Seed USA. April 24, 2019.

<http://weseedamerica.com/wp-content/uploads/2019/04/Grass-Seed-USA-Spring-Summer-2019-Infographic.pdf>

Lawn Care Tips. BYU Radio. April 22, 2019. Retrieved April 22,

2019. <https://www.iheart.com/podcast/966-the-lisa-valentine-clark-s-30182945/episode/lawn-care-tips-earth-day-having-30859001/>

Root of the Problem. Lawn & Landscape Magazine. Retrieved April 24, 2019.

<https://www.lawnandlandscape.com/article/spring-prep-playbook-022719-weed-pressure/>