

**TURF SERIES: Thursday, December 10, 2020 • 7:00 – 8:00 PM**



### **EIQ: Environmental Impact Quotient Explained**

Carl Schimenti, Cornell University: Turf Research Program Manager

The Environmental Impact Quotient (EIQ) is a method to estimate the environmental impact of pesticides. The EIQ formula was created to provide pest managers data regarding the environmental and health impacts of their pesticide options so they can make better informed decisions regarding their pesticide selection. It combines known toxicological and environmental fate information about pesticides, including toxicity to humans, fish, birds and other non-target organisms; and pesticide characteristics such as likelihood to leach or runoff, soil persistence, and plant leaf persistence. The original paper introducing and describing the EIQ was written in 1992, and the EIQ is still widely used today. An EIQ calculator has been developed to aid users in computing Field Use EIQ values, and to facilitate comparison of pest management options and systems. The calculated Field Use EIQ numbers for most active ingredients labeled for use on turfgrass, ornamental bed and right of ways

During this presentation I will explain the EIQ model and how it can be integrated into a Pest manager's decision-making process and pesticide selection for a particular site.

#### **Biography:**

Carl Schimenti is an Extension Aide and Program Manager of the Turfgrass Science Research Unit at Cornell University. After graduating in 2014 with a B.S. in Environmental Engineering from Cornell University, he pursued professional golf on several professional golf tours before returning to Cornell as an employee. His extension work focuses on reduced risk turfgrass management through judicious use of pesticides, nutrients and water. In addition, he has developed and tested models quantifying operational efficiency of turf management operations in an effort to create data-driven management recommendations.