RESEARCH UPDATES

MINNESOTA - Alfalfa in Rotation Strategies to Manage Herbicide-Resistant Giant Ragweed Jared Goplen, Lisa Behnken, Fritz Breitenbach, Roger Becker, Jeff Coulter, Jeff Gunsolus, and Craig Sheaffer, University of Minnesota

Experience of the temporal emergence in alfalfa and wheat may be due to an increase in early season competition in addition to soil conditions less-conducive to emergence. In terms of the temporal emergence pattern of the giant ragweed in each crop, the giant ragweed seedlings emerged earliest in alfalfa and wheat, whereas emergence in corn and soybean occurred slightly later. Multiple harvests of alfalfa reduced ragweed growth and seed production. Results suggest diversified crop rotations containing alfalfa have a large effect on giant ragweed emergence in corn and soybean occurred slightly later. Multiple harvests of alfalfa reduced emergence and seedlings the temporal emergence in corn and soybean occurred slightly later. Multiple harvests of alfalfa reduced ragweed growth and seed production. Results suggest diversified crop rotations containing alfalfa have a large effect on giant ragweed emergence patterns and could be used in controlling herbicide-resistant giant ragweed by directly affecting the weed seed-bank.