It's Palmer Time

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Abstract
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While most agronomists and weed scientists prefer to identify weeds using vegetative traits, the small bracts (modified leaves) associated with flowers of Palmer amaranth and waterhemp are the most, if not only, reliable way to differentiate the two species. Palmer amaranth has relatively large, green bracts that extend well beyond the other flower parts, whereas on waterhemp the bracts are similar in length to the tepals surrounding the seed capsule. On close examination, Palmer amaranth's bracts on mature female plants are easily seen protruding from the plant's seedheads without the use of a hand lens. Redroot and smooth pigweed also have large bracts; however, these species have hairy stems in contrast to the smooth stems of Palmer amaranth and waterhemp.

Several people from across the state have submitted photos or samples of plants suspected of being Palmer amaranth. In all but one case they were simply 'healthy' waterhemp. The exception was from Lee County in the SE corner of Iowa. This brings the number of counties with confirmed infestations of Palmer amaranth to five: Fremont, Harrison, Lee, Muscatine and Page.

Now is the easiest time to find new infestations of Palmer amaranth and initiate programs to either eradicate or limit its spread. We appreciate being informed of new Palmer amaranth infestations and are willing to aid in identifying suspect plants.

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Category: Weeds

Crops: Corn
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Bob Hartzler is a Professor of Agronomy and an Extension Weed Specialist. Hartzler conducts research on weed biology and how it impacts the efficacy of weed management programs in corn and soybean. He also teaches undergraduate classes in weed science and weed iden...