

8-7-2014

It's Palmer Time

Robert G. Hartzler

Iowa State University, hartzler@iastate.edu

Follow this and additional works at: <http://lib.dr.iastate.edu/cropnews>

 Part of the [Agricultural Science Commons](#), [Agriculture Commons](#), and the [Agronomy and Crop Sciences Commons](#)

Recommended Citation

Hartzler, Robert G., "It's Palmer Time" (2014). *Integrated Crop Management News*. 867.
<http://lib.dr.iastate.edu/cropnews/867>

The Iowa State University Digital Repository provides access to Integrated Crop Management News for historical purposes only. Users are hereby notified that the content may be inaccurate, out of date, incomplete and/or may not meet the needs and requirements of the user. Users should make their own assessment of the information and whether it is suitable for their intended purpose. For current information on integrated crop management from Iowa State University Extension and Outreach, please visit <https://crops.extension.iastate.edu/>.

It's Palmer Time

Abstract

The lack of reliable traits to distinguish Palmer amaranth and waterhemp during vegetative stages complicates efforts at stopping the spread of Palmer amaranth across the state. However, both plants should be in full reproductive mode at this time, greatly simplifying the identification of the two amaranths.

Keywords

Agronomy

Disciplines

Agricultural Science | Agriculture | Agronomy and Crop Sciences

IOWA STATE UNIVERSITY
Extension and Outreach
Crops Knowledgebase



Search	Search
--------	--------

[Home](#)

Mailing Lists

Subscribe to ICM News updates and receive email alerts when new information is posted.

Your Email address *

subscribe	unsubscribe
---------------------------	-----------------------------

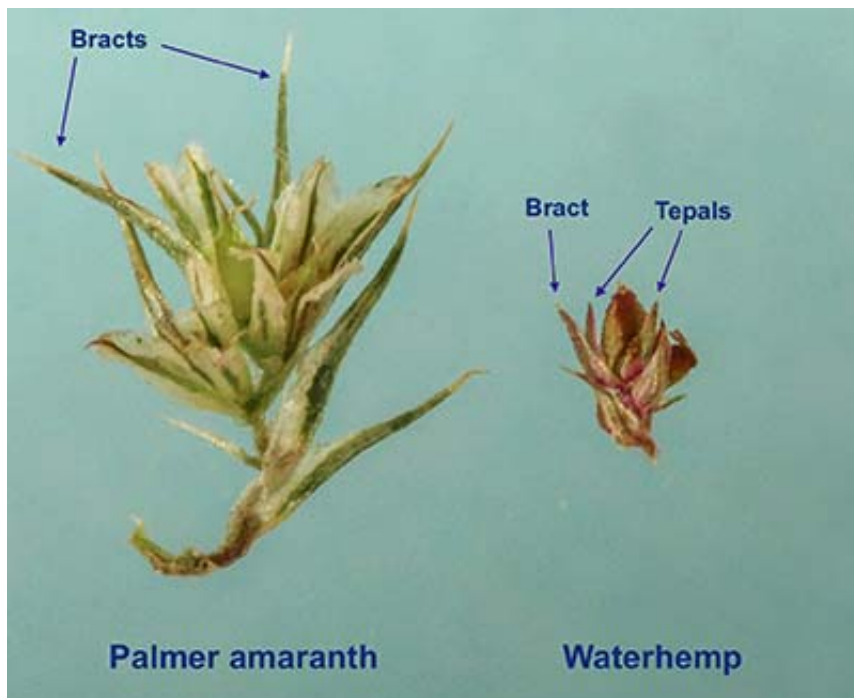
ICM News

It's Palmer Time

August 7, 2014

By Bob Hartzler, Department of Agronomy

The lack of reliable traits to distinguish Palmer amaranth and waterhemp during vegetative stages complicates efforts at stopping the spread of Palmer amaranth across the state. However, both plants should be in full reproductive mode at this time, greatly simplifying the identification of the two amaranths.



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.

Bob Hartzler is a professor with extension, teaching and research responsibilities. He can be reached at hartzler@iastate.edu or (515) 294-1164.

Category: Weeds

Crops:
Corn

Soybean

Tags: [Weeds](#) [palmer amaranth](#) [waterhemp](#)

Author:



Bob Hartzler *Professor*

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...

[Site Index](#) [Site map](#) [Policies](#)

