

9-19-2005

And the survey says...

Kristine J. P. Schaefer
Iowa State University, schaefer@iastate.edu

Carol Pilcher
Iowa State University

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

 Part of the [Agricultural Science Commons](#), [Agriculture Commons](#), and the [Entomology Commons](#)

Recommended Citation

Schaefer, Kristine J. P. and Pilcher, Carol, "And the survey says..." (2005). *Integrated Crop Management News*. 1471.
<http://lib.dr.iastate.edu/cropnews/1471>

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 Users are hereby notified that the content may be inaccurate, out of date, incomplete and/or may not meet the needs and requirements of the user.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/>.

And the survey says...

Abstract

Results from a weed survey conducted at meetings across Iowa this past year are in. The three main objectives of the survey were:

- to learn more about the weeds that Iowa producers view as most troublesome in their corn, soybean, and pasture or noncrop areas
- to introduce and create awareness for a few weed species that may be invasive or problematic in Iowa
- to learn more about the current distribution of these weed species in Iowa.

Keywords

Entomology

Disciplines

Agricultural Science | Agriculture | Entomology

INTEGRATED CROP MANAGEMENT

And the survey says...

Results from a weed survey conducted at meetings across Iowa this past year are in. The three main objectives of the survey were:

- to learn more about the weeds that Iowa producers view as most troublesome in their corn, soybean, and pasture or noncrop areas
- to introduce and create awareness for a few weed species that may be invasive or problematic in Iowa
- to learn more about the current distribution of these weed species in Iowa.

Identification characteristics for five weed species were presented and surveys were distributed to producers at 12 Crop Advantage Series meetings across Iowa and to commercial applicators attending a Commercial Continuing Instructional Course meeting. Overall, the response rate to the optional survey was very good with 888 out of 1,483 growers completing the survey for a return rate of 59.9 percent at the Crop Advantage Series meetings and 114 out of 192 applicators at the Commercial Continuing Instructional Course for a similar response rate of 59.4 percent.

The top five most troublesome weeds in corn and soybeans, according to survey respondents, are listed in Table 1. Waterhemp was ranked as the most troublesome weed in both corn and soybeans with over half the respondents reporting it as the number one weed problem in their soybean fields. In corn, woolly cupgrass ranked a close second to waterhemp as the most troublesome weed.

Table 1. Percent of survey respondents who listed their most troublesome weed in corn and soybeans in 2004.

Corn		Soybean	
Weed	Most Troublesome (%)	Weed	Most Troublesome(%)
Waterhemp	26	Waterhemp	53
Woolly cupgrass	22	Lambsquarter	12
Foxtail	12	Velvetleaf	7
Velvetleaf	9	Giant ragweed	6
Giant ragweed	8	Woolly cupgrass	4
Others	23	Others	18

When surveying for the most troublesome weed in pastures or other noncrop areas, the predominant problem weed listed by 72 percent of respondents was thistle. Multiflora rose, leafy spurge, and common ragweed were listed as the most troublesome weed in pastures by 4, 3, and 2 percent of the respondents, respectively.

The five weed species presented as new or increasing problems in Iowa included leafy spurge (*Euphorbia esula*), burcucumber (*Sicyos angulatus*), garlic mustard (*Alliaria petiolata*), wild buckwheat (*Polygonum convolvulus*), and Asiatic dayflower (*Commelina communis*). Leafy spurge poses problems primarily in nontilled areas such as pastures and roadsides while burcucumber, wild buckwheat, and Asiatic dayflower can be weed problems in row crop production. Garlic mustard is a weed that inhabits woodlands and can rapidly displace native vegetation.

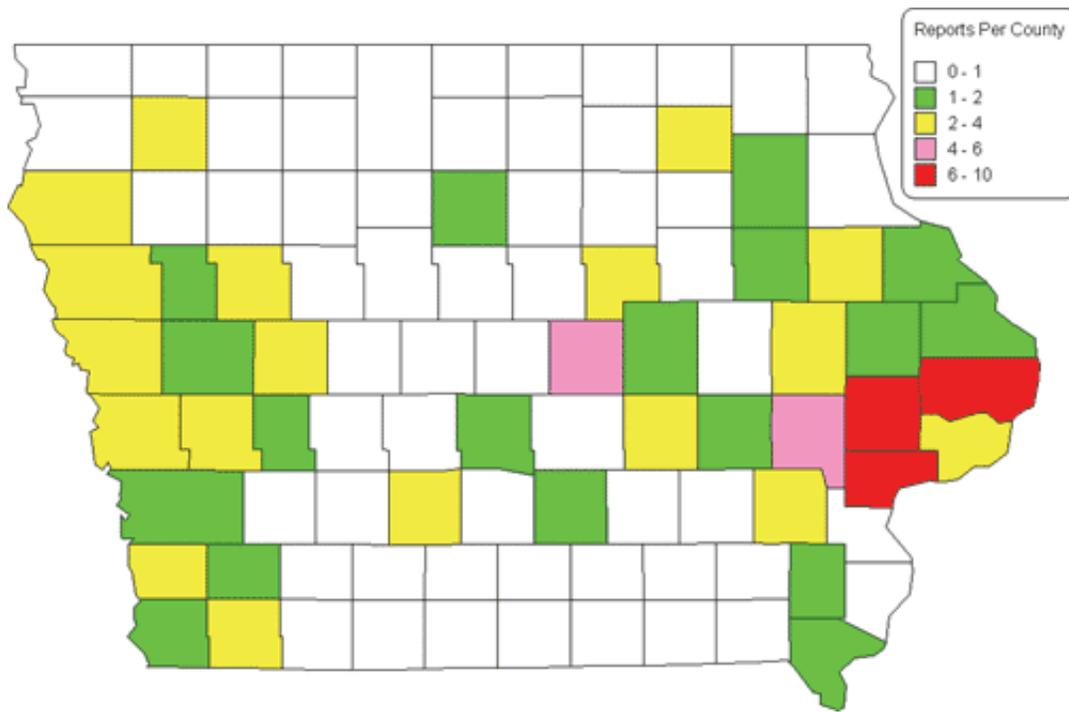
Regarding the distribution of the five potential invasive or problematic weed species, burcucumber was the most widely distributed weed species of those introduced at the meetings. It was reported to be present in 41 counties in Iowa by the survey participants, with the highest concentration in the east central portion of the state. Figure 1 shows the distribution of burcucumber across Iowa according to the survey results. Wild buckwheat was noted in 21 counties (Figure 2) while Asiatic dayflower, leafy spurge, and garlic mustard were reported in 12, 11, and 9 counties, respectively (Figures 3, 4, and 5).

More information will be forthcoming on managing some of these problematic weeds. Thank you to everyone who participated in the survey. The information you provided was useful and appreciated.



[1]

Burcucumber.



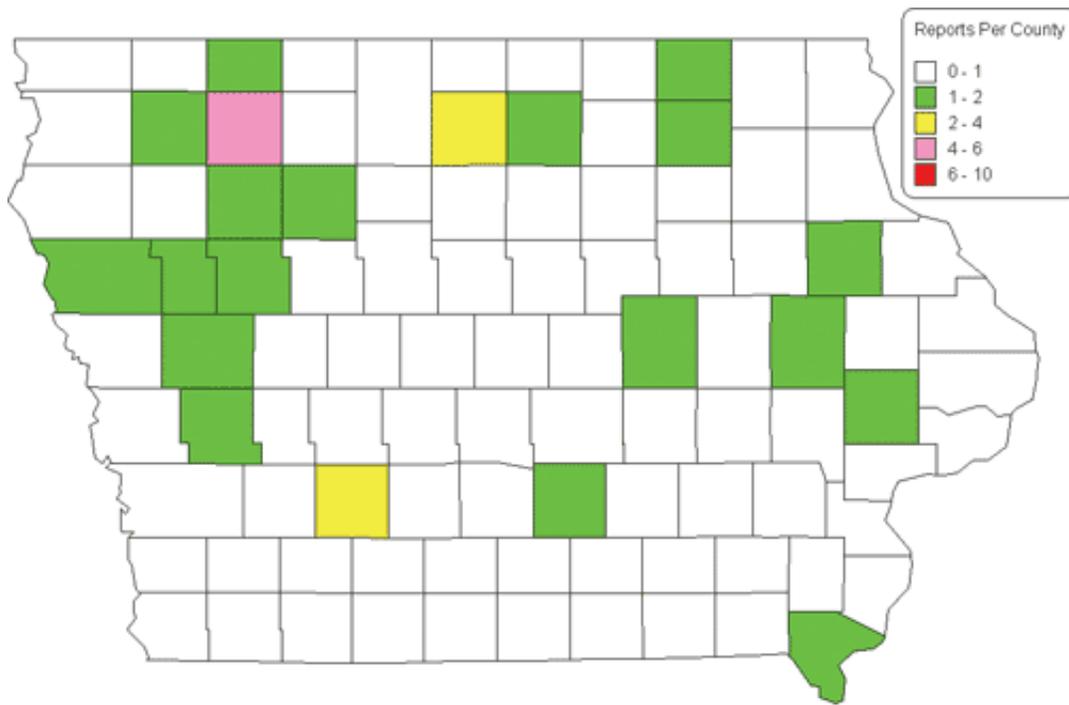
[2]

Distribution of burcucumber (41 counties) in Iowa in 2004.



[3]

Wild Buckwheat.



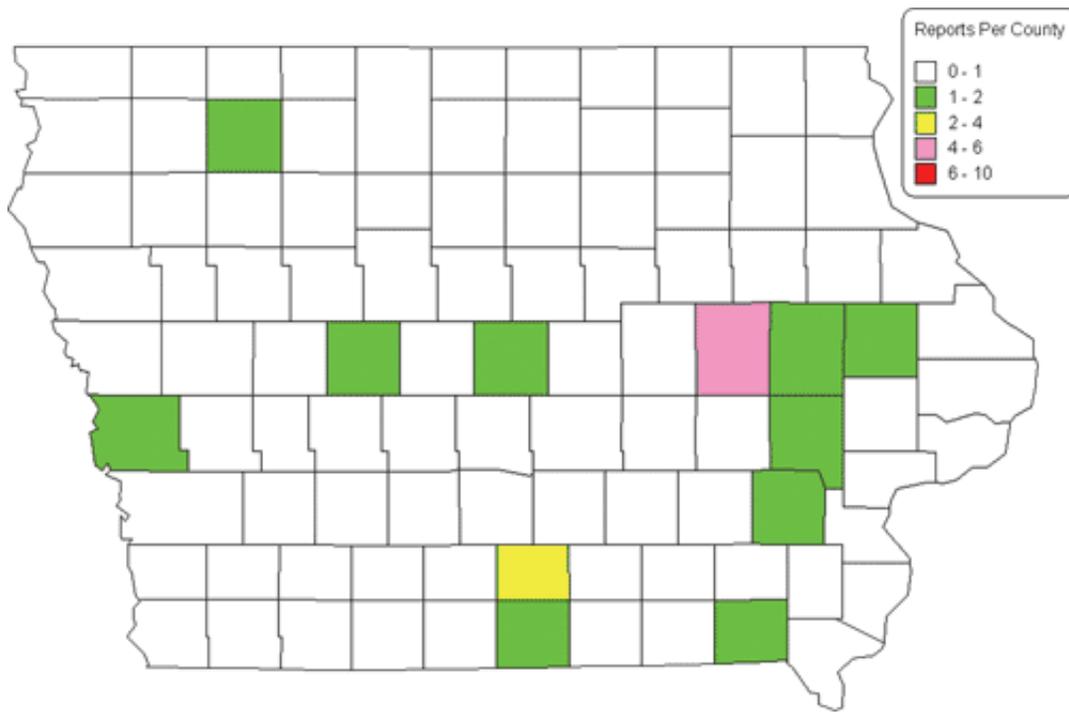
[4]

Distribution of wild buckwheat (21 counties) in Iowa in 2004.



[5]

Asiatic dayflower.



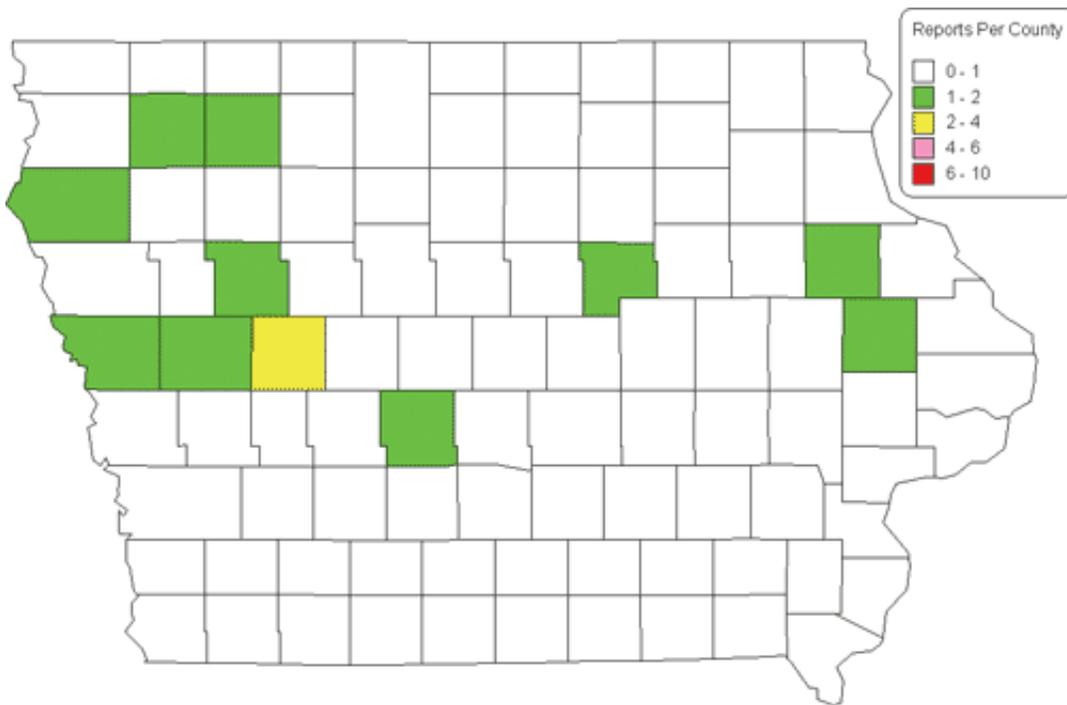
[6]

Distribution of Asiatic dayflower (12 counties) in Iowa in 2004.



[7]

Leafy spurge.



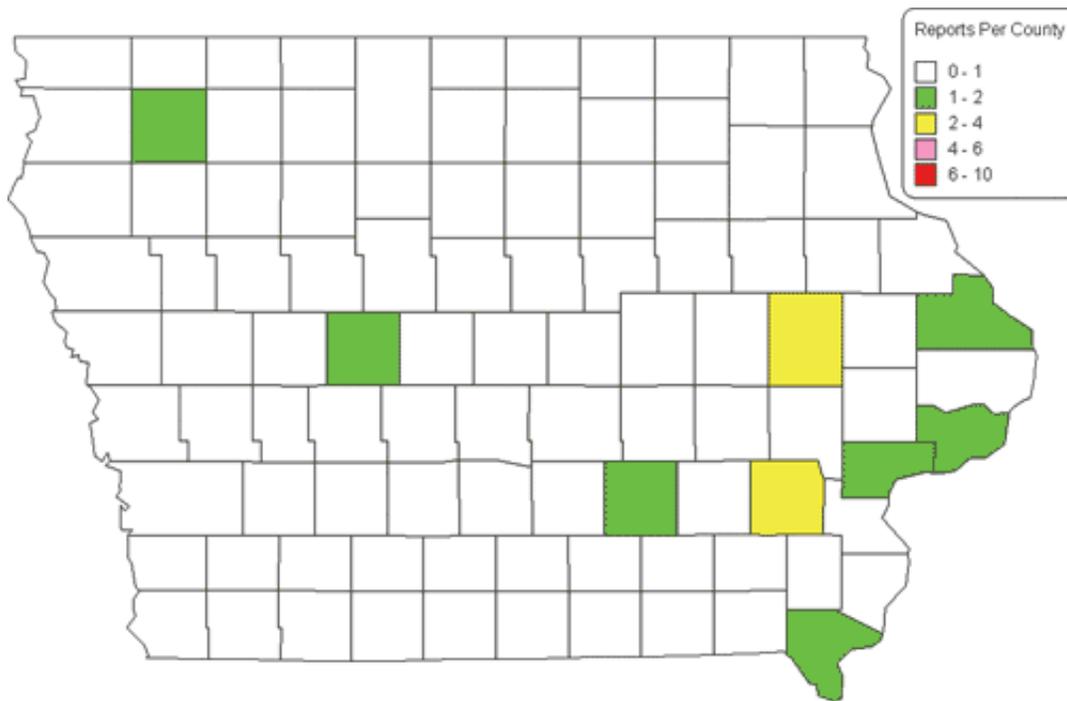
[8]

Distribution of leafy spurge (11 counties) in Iowa in 2004.



[9]

Garlic mustard.



[10]

Distribution of garlic mustard (9 counties) in Iowa in 2004.

This article originally appeared on page 191 of the IC-494(23) -- September 19, 2005 issue.

Source URL:

<http://www.ipm.iastate.edu/ipm/icm//ipm/icm/2005/9-19/survey.html>

Links:

- [1] <http://www.ipm.iastate.edu/ipm/icm/node/202>
- [2] <http://www.ipm.iastate.edu/ipm/icm/node/201>
- [3] <http://www.ipm.iastate.edu/ipm/icm/node/203>
- [4] <http://www.ipm.iastate.edu/ipm/icm/node/204>
- [5] <http://www.ipm.iastate.edu/ipm/icm/node/205>
- [6] <http://www.ipm.iastate.edu/ipm/icm/node/206>
- [7] <http://www.ipm.iastate.edu/ipm/icm/node/207>
- [8] <http://www.ipm.iastate.edu/ipm/icm/node/208>
- [9] <http://www.ipm.iastate.edu/ipm/icm/node/209>
- [10] <http://www.ipm.iastate.edu/ipm/icm/node/210>