



CAST Publication Impacts Report

HERBICIDE-RESISTANT WEEDS THREATEN SOIL CONSERVATION GAINS: FINDING A BALANCE FOR SOIL AND FARM SUSTAINABILITY

CAST Issue Paper 49

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Impact reports compiled March 20, 2012

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I. ROLLOUT/RELEASE

Herbicides were developed during the twentieth century to be used with conventional tillage for weed control. Conservation (or minimum) tillage subsequently evolved, which enabled less soil damage when used with herbicides. Selection pressure, however, has resulted in weed species that have made adaptations for survival in conjunction with tillage. The U.S. government has put several federal policies and programs in place that help determine the selection and implementation of crops and conservation programs in relation to herbicides and tillage. This Issue Paper examines the impact of certain weed management practices on soil conservation objectives and addresses ways to mitigate negative effects.

II. DISTRIBUTION OF ANNOUNCEMENTS/NEWS RELEASES

Electronic Contacts

Listserves

Task Force Members
Board/Staff
Society Presidents and Executives
Media

Friday Notes

News Information Groups
Deans of Agriculture
Directors of Ag Experiment Stations
NASDA Administrators
Company and Nonprofit Members

III. FOLLOW-ON ACTIVITIES/PRESENTATIONS/NEWSPAPER ARTICLES/TV AND RADIO NEWS

- *Friday Notes*, February 3, 2012 (Weed Science Society of America meeting)
- *Feedstuffs* Newspaper, February 20, 2012
- *Friday Notes*, March 9, 2012 (Western Society of Weed Science meeting)
- In February 2013, CAST released a Spanish translation of this Issue Paper; the CAST office sent more than 150 e-mails regarding the release.
- An extension officer in Australia asked to excerpt sections for use in an upcoming issue of the *Western Australian No-Tillage Farmers Association* journal.

IV. INTERNET AND WEBSITE CONNECTIONS

IMPACTS AS OF MARCH 2012: 24

AGRIIntelligence

Accessed February 06, 2012

<http://agrintelligence.biz/>

AgriMarketing

Accessed February 06, 2012

<http://agrimarketing.com/s/72823>

Arkansas Water Sustainability

Accessed February 09, 2012

<http://watersustainability.wordpress.com/2012/02/09/soil-conservation-threatened-by-herbicide-resistant-weeds/>

Arkansas Water Sustainability (Wordpress)

Accessed February 10, 2012

<http://watersustainability.wordpress.com/>

Conservation News Briefs

Accessed February 09, 2012

<http://www.multibriefs.com/briefs/swcs/020912.html>

Dakota Farmer

Accessed February 06, 2012

<http://farmprogress.com/dakota-farmer/story.aspx?s=57043&c=8>

Delta Farm Press

Accessed February 06, 2012

<http://deltafarmpress.com/management/cast-examines-balance-between-conservation-tillage-and-herbicide-resistant-weed-managemen>

Envinews.eu

Accessed February 10, 2012

<http://www.envinews.eu/article/178583/>

Farm Futures

Accessed February 06, 2012

<http://farmfutures.com/story.aspx/soil-conservation-threatened-resistant-weeds-17/57043>

Farm Futures

Accessed February 06, 2012

<http://farmfutures.com/story.aspx>

Farm Progress Daily

Accessed February 12, 2012

<http://farmprogressdaily.com/story.aspx/herbicide-resistant-weeds-threaten-soil-conservation-9-57215>

Fertile Soil Solutions LLC

Accessed February 09, 2012

<http://www.fertilesoilsolutions.com/2012/02/farmland-threatened-by-herbicide-resistant-weeds/>

Kansas Farmer

Accessed February 06, 2012

<http://farmprogress.com/kansas-farmer-story-soil-conservation-threatened-resistant-weeds-17-57043>

KTIC Radio

Accessed February 2012

<http://kticradio.com/news/agricultural/index.php?more=xxdwzxxz>

MSU Office of Research and Economic Development (Facebook)

Accessed February 2012

<http://www.facebook.com/MaroonResearch>

News aggregator

Accessed February 8, 2012

<http://fmsnews.info/News/Food/CAST-examines-balance-between-conservation-tillage-and-herbicide-resistant-weed-.aspx?ixd=39386>

Pork Network

Accessed February 06, 2012

<http://www.porknetwork.com/pork-news/Weeds-adapt-threaten-soil-conservation-efforts-138785209.html>

Seed Today

Accessed February 06, 2012

http://www.seedtoday.com/articles/Herbicide_resistant_Weeds_Threaten_Soil_Conservation_Gains_Finding_a_Balance_CAST_Issue_Paper_-119616.html

Southwest Farm Press

Accessed February 08, 2012

<http://southwestfarmpress.com/management/cast-examines-balance-between-conservation-tillage-and-herbicide-resistant-weed-managemen>

The National Center for Appropriate Technology (NCAT)

Accessed February 13, 2012

<http://search.ncat.org/texis/search/mlt.html?query=CAST&pr=NCAT2007&prox=page&rorder=500&rprox=500&rdfreq=500&rwfreq=500&rlead=500&rdepth=0&sufs=0&order=r&cq=&cnd=mlt&id=4f38c37062>

University of California Agricultural Economics

Accessed February 2012

http://ucanr.org/sites/Farm_Management/

University of Nebraska–Lincoln

Accessed February 2012

<http://panhandle.unl.edu/news1>

University of Nebraska–Lincoln; Weed Science

Accessed February 20, 2012

<http://weedscience.unl.edu/>