



## Action Plan: Weed Management in Field Crops



2011-201

### Strategic Opportunities Addressed:

- Sustain Profitable Agricultural Production Systems

### Situation:

Weeds cause tremendous economic loss in cropland each year due to reduced crop yields, cost of control, harvest related issues, and lower value of the harvested crop. Weeds have developed herbicide resistance from the lack of integrated weed control practices which result in lower crop yields, increased cost of control, and reduced profitability. Inappropriate use of herbicides can result in environmental concerns from off target movement and contamination of our natural resources.

### Public Value:

When you support the weed management program the participants will practice cost effective and environmentally sound weed management and will understand benefits and effectiveness of integrated weed management programs which leads to maximum profitability by adopting sustainable practices with minimal environmental impact. This will benefit other community members with abundant food supply.

### Outcomes:

#### Short-Term:

Participants gain awareness of the benefits and effectiveness of an integrated weed management program.

#### Evaluation Questions:

What awareness do participants gain about the benefits and effectiveness of an integrated weed management program?

#### Medium-Term:

Participants will make informed choices relating to their integrated weed management program.

#### Evaluation Questions:

What choices do participants make for an integrated weed management program?

#### Long-Term:

Adoption of weed management practices that maximize profitability and are sustainable while having minimal impact on the environment.

#### Evaluation Questions:

Among participants who adopt integrated weed management practices, how do these practices influence the

profitability, sustainability, and environmental impact?

## **Outputs:**

Revise the KSU Chemical Weed Control Guide on an annual basis and distribute to county extension offices, farmers, crop advisors, and agricultural industry.

Participate in crop schools and field tours to provide information on integrated weed management in field crops.

Provide Educational Programs on:

- a. Wheat's Up? Signature Program
- b. Weed Management in Corn
- c. Weed Management in Sorghum
- d. Weed Management in Soybean
- e. Weed Management in Wheat
- f. Weed Management in Alfalfa
- g. Weed Management in Other Crops
- h. Herbicide Resistant Weed Management
- i. Glyphosate Stewardship
- j. Weed Identification

Provide information to the public on integrated weed management through traditional media, electronic media, publications, and newsletters.

Conduct a series of Integrated Weed Management meetings throughout the state to focus on integrated weed management and current weed science issues.

## **Plan Contacts:**

- Peterson, Dallas - Professor , Agronomy
- Thompson, Curtis - Professor , Agronomy