

## *Integrated Weed Management*

### **The 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.

### **Short-Term (Knowledge)**

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

Participants will build their knowledge and expertise in identifying common weeds along with developing weed management plans.

#### Indicators

At the conclusion of each of the weed management educational programs, an event evaluation will be distributed. The evaluation will allow participants to indicate their level of understanding before and after the program.

### **Medium-Term (Behavior)**

Participants will improve decision making for more efficient, agronomic and environmentally responsible weed management.

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

#### Indicators

Participants will be able to provide their plans for utilizing their know knowledge and skills in their own farming enterprises.

### **Long-Term (Change in Condition)**

Improved chemical use efficiency while minimizing environmental impact.

Kansas producers will have efficient, sustainable and competitive cropping systems.

#### Indicators

Distribute a 6-month follow up evaluation, by email, to all participants to determine what changes participants have made in regards to weed management.

## Public Value

Not Specified

## Outputs

Revise the Chemical Weed Control Guide on an annual basis and distribute to county/district extension offices, farmers, crop advisors, and agricultural industry, as well as make it accessible on <http://myfields.info>.

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

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