Herbicide Groups and sites of action

Herbicide Groups provide a simple way of determining a herbicide's site of action. The site of action is the specific protein a herbicide binds to, resulting in disruption of a physiological process (mode of action) and plant death.

Weed-management programs that include multiple Herbicide Groups effective against problem weeds are the first step in managing herbicide resistance. Herbicide Group numbers are displayed on most herbicide labels.

This poster provides information on the Herbicide Groups most commonly used in soybean production. Also, the most problematic herbicide-resistant weeds and the Herbicide Groups they have evolved resistance to are displayed.

**Herbicide Groups and Sites of Action**

**Herbicide Groups**
- ACCase inhibitors
- ALS inhibitors
- Inhibitors of other enzymes
- Inhibitors of hormone receptors
- Inhibitors of lipid synthesis
- Inhibitors of photosystem II
- Inhibitors of photosystem I
- Inhibitors of electron transport
- Inhibitors of long-chain fatty acid synthesis
- Inhibitors of lipid synthesis

**Know Your Weeds**
The 11 biggest resistance threats

**Weed Out Resistance**

**Common Waterhemp**
*amaranthus rudis*

**Common Ragweed**
*ambrosia artemisiifolia*

**Common Lambsquarters**
*chenopodium album*

**Barnyard Grass**
*echinocloa crus-galli*

**Palmer Amaranth**
*amaranthus palmeri*

**Johnson Grass**
*sorghum halepense*

**Horseweed (Marestail)**
*conyza canadensis*

**Giant Foxtail**
*setaria faberi*

**Giant Ragweed**
*ambrosia trifida*

**Giant Waterhemp**
*amaranthus palmeri*

**Showed Resistance To:**
- Common Waterhemp
- Common Ragweed
- Common Lambsquarters
- Barnyard Grass
- Palmer Amaranth
- Horseweed (Marestail)
- Giant Foxtail
- Giant Waterhemp

**For More Information**
TakeActionOnWeeds.com

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