

## Weed Science Society of America (& HRAC) Classification of Herbicide Modes of Action

Group	Mode of Action	Brand names
1	ACCCase	Select, Assure II, Poast Plus, Fusion, Fusilade, etc.
2	ALS inhibitors	Accent, Beacon, Escort, First Rate, Harmony, Permit, Option, Pursuit, Raptor, etc.
3	Mitosis inhibitors (DNA's)	Prowl, Surflan, Treflan, etc
4	Synthetic auxins	2,4-D, Clarity, Remedy, Stinger, Tordon, etc.
5	Photosystem II inhibitor(3)	Triazines (atrazine, Sencor, Princep)
6	Photosystem II inhibitor(3)	Basagran, Buctril, etc.
9	EPSPS inhibitor	Glyphosate (Round up and "generics")
10	Glutamine synthetase inhibitor	Ignite
13	Carotene Inhibitors	Command
14	PPO inhibitors	Aim, Authority, Blazer, Cobra, Flexstar, Reflex, Resource, Valor, etc.
15	Lipid inhibitors	Acetamides (Axiom, Cinch, Dual, Harness, Intrro, Outlook, etc)
19	Auxin transport inhibitor	Distinct, Status
22	Photosystem I inhibitor	Diquat, Gramoxone
27	HPPD	Bleachers (Balance, Callisto, Laudis, Impact)

Prepared by Virgil Schmitt, ISU Extension Field Agronomist for the Aerial Applicator Continuing Instruction Course, November 9, 2011.

**IOWA STATE UNIVERSITY**  
**Extension and Outreach**

**... and justice for all**

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Many materials can be made available in alternative formats for ADA clients. To file a complaint of discrimination, write USDA, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964.