Effective Early-season Grass and Broadleaf Weed Control in Soybeans

Growers are encouraged to plant seed varieties that are resistant to certain diseases, insects and nematodes, as well as to use seed treatments for additional defense against similar pests. However, some of the top early-season yield limiters to soybeans are weeds. As another form of preliminary protection against soybean pests, Boundary® 6.5 EC soil-applied herbicide delivers proven early-season grass and broadleaf weed control in soybeans, excellent resistance management and rotation flexibility. By using Boundary, growers can extend their post-emergence application window up to five weeks after planting, thereby protecting yield and keeping fields cleaner longer. Utilizing Boundary enables soybeans to grow strong so that growers can grow more soybeans.

Boundary Advantages
• Protects soybean yields from weed competition by offering early-season residual control over troublesome weeds.
• Contains two non-ALS inhibiting, non-glyphosate and non-PPO chemistries for managing tough weeds and grass such as foxtail spp., black nightshade, and ALS- and glyphosate-resistant pigweed and waterhemp.
• Offers rotational flexibility.
• Widens the post-emergence application window, keeping fields cleaner longer and allowing for more timely post-emergence applications.

Modes of Action
Boundary herbicide works in two ways, as two potent germination inhibitors lie in Boundary-treated soil and control weeds as they sprout. The shoot-growth inhibitor stifles normal cell development so weeds cannot grow. The photosynthesis inhibitor starves weeds of the sun’s energy—removing a vital link in healthy growth.

Formulation
An emulsifiable concentrate, Boundary contains 5.25 lbs. of S-metolachlor and 1.25 lbs. of metribuzin per gallon.

Boundary contains two modes of action and controls weeds such as waterhemp and Palmer pigweed that are resistant to glyphosate and ALS-inhibitors. Further, Boundary controls tough weeds such as black nightshade, prickly sida and sicklepod.

When faced with weeds that are resistant to multiple herbicides, Boundary pre-emergence herbicide is the last defense against resistant weeds for soybeans.
Application & Timing

- Apply Boundary preplant incorporated or pre-emergence in conventional or glyphosate-tolerant (GT) soybeans.
- Mix Boundary with a minimum of 10 gallons of water per acre.
- Apply 1.5 to 1.8 pt/A preplant or pre-emergence as a foundation treatment in a planned two-pass weed control system. (Use 1.5 pt/A rate in soils with pH above 7.0.)
- Use rates in tank mixes depend on soil texture, organic matter and pH levels.
- See the product label for specific use rates for preplant or pre-emergence applications in conventional tillage, reduced tillage and no-till systems.

Whether in GT or conventional soybeans, Boundary:

- Ensures soybean plants benefit from full access to essential moisture and nutrients in the early stages of growth.
- Widens the application window for post-emergence programs whether Boundary is applied alone or in a tank mix.

GT Soybeans:

Follow Boundary with a post-emergence application of glyphosate, such as Touchdown Total® herbicide. For fields with glyphosate-tolerant or -resistant weeds, utilize a premix herbicide with two modes of action, such as Flexstar® GT 3.5 herbicide.

Conventional Soybeans:

Follow Boundary with an application of a conventional post-emergence herbicide, such as Flexstar® or Fusion® herbicides, to provide additional control of certain weeds.

As a Resistance Fighter™ brand, Boundary enables growers to target difficult-to-control weeds that have developed or are likely to develop resistance to glyphosate and/or ALS-inhibitors in GT soybeans, while maximizing yield and profit potential. When combined with cultural practices such as crop rotation and tillage, Boundary helps growers reduce the weed seed bank, maximize diversity and fight resistance.

Weeds Controlled

Boundary controls 32 annual broadleaf weeds, including:
- Waterhemp spp.
- Pennsylvania Smartweed
- Mustard spp.
- Black Nightshade
- Pigweed spp.
- Common Lambsquarters
- Sesbania spp.
- Sicklepod
- Florida Beggarweed
- Prickly Sida

Boundary controls 13 annual grasses, including:
- Barnyardgrass
- Goosegrass
- Foxtail spp.
- Crabgrass spp.
- Fall Panicum

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