



Pheasants Forever / Quail Forever  
**Habitat Information Sheet #21**

## s-metalachlor (Dual II Magnum)



### IMPORTANT PRECAUTIONS

This document is only a summary of how to use this product for wildlife food plots. Observe all precautions and limitations on the label of this product. Use only as directed by the label. Coveralls, chemical-resistant gloves and socks and shoes should be worn. Do not apply under windy conditions to avoid spray drift. Avoid spray overlap. Do not apply under conditions which favor runoff. This product is known to leach through soil into ground water. It has the potential to contaminate surface water through drift and runoff.

### What is s-metalachlor

s-metalachlor is the active ingredient found in selective herbicides like: Brawl, Brawl II, Charger Basic, Charger MAX, Cinch, **Dual II, Dual II Magnum**, Medal, Medal II, and Pennant. It is a selective residual herbicide treatment for control of most annual grasses and certain small seeded broadleaf weeds. It generally does not kill already growing weeds.

### Application methods

s-metalachlor is recommended as a preplant surface-applied, **preplant incorporated**, or preemergence treatment in water or fluid fertilizer. Recommended application rates vary by crop and soil types so check the manufacturer label.

### Controlled weeds

Broadleaves controlled prior to weed emergence	
<b>Amaranth: Palmer, Powell</b> Carpetweed Galinsoga: hairy, smallflower Nightshade: Eastern black <b>Pigweed: prostrate, redroot, smooth, tumble</b>	Pusley, Florida Spiderwort, tropical <b>Waterhemp: common, tall</b> Nutsedge, yellow
Broadleaves partially controlled prior to weed emergence	
Beggarweed, Florida Eclipta	Nightshade, hairy Purslane, common
Grasses controlled prior to weed emergence	
<b>Barnyardgrass</b> (watergrass) Crabgrass: large, smooth Crowfootgrass Cupgrass: prairie, southwestern <b>Foxtail: bristly, giant, green, millet, yellow</b> Goosegrass	Panicum, fall Rice, red Ryegrass, Italian Signalgrass, broadleaf Witchgrass
Grasses partially controlled prior to weed emergence	
Cupgrass, woolly <b>Johnsongrass (seedling)</b> Millet, wild-proso	Panicum, Texas Sandbur: field, southern

### For weed control in the following crops

s-metalachlor can be used to control weeds in Pheasant and Quail Forever's Concep-treated mixes (Blizzard Buster, Covey Rise, Early Longtail Milo). It is also approved for use in corn, Concep-treated forage and grain sorghum, soybeans and sunflowers.

Learn more at [www.PFHabitatStore.com/resources](http://www.PFHabitatStore.com/resources)

Call 866-914-7373 with questions

**Recommended application**

**Remember to follow all safety recommendations.** Application rates vary by type of application (preplant incorporated, preemergence, postemergence), crop type and soil type so you must read herbicide label for recommendations.

- Preplant surface-applied – for minimum-till or no-till systems only. Herbicide may be applied up to 45 days prior to planting certain crops. Use only split applications for treatments made 30-45 days before planting, with 2/3 the recommended broadcast rate for the crop/soil texture applied initially and the final 1/3 applied a planting. Treatments less than 30 days before plating may be either as a split or single application.
- **Preplant incorporated – this is the recommended application type for concep-treated sorghum products including the Pheasants Forever Signature Series mixes (Blizzard Buster, Covey Rise, Early Longtail Milo). Apply herbicide to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator or similar implement capable of providing uniform 2-inch incorporation. Use if a period of dry weather application is expected.**
- Preemergence – apply herbicide during planting (behind the planter) or immediately after planting, but before weeds or crops emerge.
- Postemergence – this herbicide may be applied to certain crops (corn, concept-treated sorghums) postemergence. It will NOT provide postemergence weed control so it must be applied to a weed-free soil surface.

**Recommended application rates**

This table based on Dual II Magnum preplant incorporated rate recommendations for common wildlife food plot crops. Rates are in pints/acre. Always confirm rates with product label.

	Coarse Soils	Medium Soils	Fine Soils
Grain & Forage Sorghum *Blizzard Buster *Covey Rise * Early Longtail Milo	1.0 – 1.33	1.33 – 1.5	1.33 – 1.67
Corn (> 3% Organic Matter)	1.33	1.33 – 1.67	1.67 – 2.0
Corn (< 3% Organic Matter)	1.0 – 1.33		1.33 – 1.67
Soybeans (> 3% Organic Matter)	1.33		1.67 – 2.0
Soybeans (< 3% Organic Matter)	1.0 – 1.33		1.33 – 1.67
Sunflowers (> 3% Organic Matter) *Dove Kandy Sunflowers	1.33		1.67 – 2.0
Sunflowers (< 3% Organic Matter) *Dove Kandy Sunflowers	1.0 – 1.33		1.33 – 1.67

\*Blizzard Buster, Covey Rise, Early Longtail Milo and Dove Kandy Sunflowers are Pheasants Forever Signature Series food plot mixes and can be purchased at [www.pfhabitatstore.com](http://www.pfhabitatstore.com).

Order Online at [www.PFHabitatStore.com](http://www.PFHabitatStore.com)  
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