• Add Aim® EC herbicide at 1.0 oz./A to your burndown program for control of glyphosate-resistant kochia
• Excellent activity on annual and winter annual weeds <4” tall
• Zero-day plant back to all registered crops: alfalfa, small grains, canola, flax, soybean, sunflower, sorghum, and dry legumes
• In cool weather conditions, glyphosate efficacy decreases due to temperature dependency. **Aim EC herbicide is NOT temperature dependent** making for an excellent burndown partner in the spring
• Tank mix Aim EC herbicide with MSO or COC at 1% v/v
Spartan® Elite & Spartan® Charge Herbicides: Preplant / Preemergence for Dry Field Peas & Chickpeas

Aim® EC herbicide: 0.75-1.5 fl. oz./A
- Non-residual burndown control of emerged weeds in tank-mix programs
- Combine with Spartan® Elite herbicide to improve burndown on kochia, Russian thistle, lambsquarters, mustard species
- Non-residual program: Aim EC herbicide 1.0-1.5 oz. + glyphosate 1-1.5 lbs. ai + MSO 1.0% v/v + AMS
- Use 1.0-1.5 oz. for heavy weed and resistant populations
- Use preplant up to one day after planting

Spartan® Elite herbicide: 19-28 oz./A See label for specific soil type and organic matter recommendations.
- Combines broadleaf control of Spartan herbicide with grass control of s-metolachlor
- Excellent on small-seeded broadleaves. Stronger on pigweed, lambsquarters, nightshades with two modes of action working on those weeds where soil type has limited the rate on Spartan Charge herbicide in the past

Spartan® Charge herbicide: 3-6 oz./A See label for specific soil type and organic matter recommendations.
- Includes the post activity of Aim EC herbicide for increased burndown on kochia, R. thistle, mustards, lambsquarters
- Tank mix with residual grass partner like Dual® herbicide or Prowl® herbicide, or follow with post grass herbicide

Authority® Supreme herbicide: 4.3-15.4 oz. See label for specific soil type and organic matter recommendations.
- Combines broadleaf control of sulfentrazone with the broadleaf and grass control of pyroxasulfone.
- Increased pigweed, waterhemp and kochia control as well as green foxtail, yellow foxtail and barnyard grass.

Weed Control in Dry Field Peas
Univ. of NE – HPAL, Sidney, NE 2014
% Control 57 DAT

Best Management Recommendations for Spartan Herbicide Applications for Field Peas
- Spartan Charge, Spartan Elite, Authority Supreme herbicides: Tank mix with glyphosate for no-till for complete burndown
- Add MSO as desired for increased burndown performance when using Aim EC herbicide
- Preplant applications (7-14 days) have shown good weed control and improved crop safety.
- Preplant applications also may allow slightly higher rate for improved weed control with excellent crop safety, especially on lighter, low O.M. soils
Authority® Brand Herbicides – Early Preplant Applications for Soybeans

Advantages of Early Preplant Applications
1. Get ahead of corn planting by getting soybean acres sprayed.
2. Early weed control. Control weeds before they get established. Warm spring has weeds growing early.
3. Move from corn planting into soybeans without worry about plant-back restrictions on burndown programs.

Early Preplant vs. Preemergence Applications All the Authority® herbicide products can be applied up to 45 days ahead of planting in the spring. Use the higher end of the rate ranges below when applying EPP from late March to April 20-25 for extended residual. You don’t want to use a low rate then have it run out to early in the season. For resistant weeds like waterhemp, Palmer amaranth, giant ragweed, keep the rates up no matter when the application is made to get the best control.

Weeds like kochia, giant ragweed, marestail, lambsquarters come up very early. Applying Authority herbicides before they get going is critical in keeping fields clean.

- **Authority First DF: 5-6.4 oz./A**
  - Provides strong activity on ragweed and marestail making either a great choice for tough no-till environments with these problem weeds

- **Authority® Assist herbicide: 8-10 oz./A**
  - Long residual of Authority herbicides provides superior control on kochia, waterhemp, lambsquarters, nightshade, morningglories, velvetleaf, plus excellent grass control

- **Authority® MTZ DF herbicide: 14-18 oz./A**
  - Rotation flexibility to plant corn after four months. Excellent product for soybeans going to seed corn the following year. Kochia, waterhemp, lambsquarters, morningglories, nightshade

- **Authority® Elite herbicide: 24-30 oz./A**
  - Strong grass and small-seeded broadleaf control with combination of Authority herbicides + s-metolachlor. Kochia, waterhemp, lambsquarters, nightshade, foxtails

- **Authority® Supreme herbicide: 6-11.5 oz./A**
  - Sulfentrazone and pyroxasulfone combined for excellent kochia, pigweed, waterhemp and grass control

For Emerged Weeds in No-Till
Add Aim EC herbicide 0.5-0.75 oz. + 2,4-D LV 1.0 pt. + MSO 1% v/v
- For emerged, glyphosate-resistant kochia, increase Aim EC herbicide rate to 0.75-1.0 oz./A
Panoflex® herbicide with TotalSol® soluble granules: 4:1 ratio – Tribenuron: Thifensulfuron
Improved activity on key winter annual/no-till weeds.

Mustards
Volunteer canola*
Chickweed
Henbit
Wild buckwheat
Shepherd’s purse
Lambsquarters
Prickly lettuce
Dandelions
Wild garlic
*except Clearfiled

Combine the burndown activity of Authority® First DF / Authority® XL / Authority® Assist / Authority® MTZ DF herbicides with Panoflex herbicide

Panoflex herbicide @ 0.3 oz./A: One-day plant back to soybeans.**
0.4-0.6 oz.: Seven-day plant back to soybeans.**
Combine with 2,4-D or dicamba for marestail.

Crop plant-back flexibility
Barley, triticale, wheat: Zero days.
Oats, soybeans: One day (0.3 oz./A rate).
Soybeans: Seven days (0.4-0.6 oz./A rate).
Corn, grain/forage sorghum: 14 days.
Other crops: 45 days.

**When used on light textured soils, or on high pH soils (>7.9), extend time to planting by seven additional days

Always read and follow all label directions, restrictions and precautions for use. Some products may not be registered for sale or use in all states. As of November 1, 2017 the USEPA registration for DuPont™ Panoflex® herbicide with TotalSol® Soluble Granules was sold to FMC by E. I. du Pont de Nemours and Company. FMC, Aim, Authority, Panoflex and Spartan are trademarks and HatchTrak is a service mark of FMC Corporation or an affiliate. Sharpen and Prowl are trademarks of BASF. ©2018 FMC Corporation. All rights reserved. 04/18