



February 21, 2017

The current February “heat wave” has everyone scrambling to get into the field and prepare for the upcoming planting season though we know Mother Nature is surely not releasing us from winter.

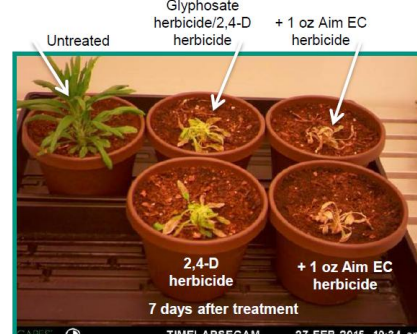
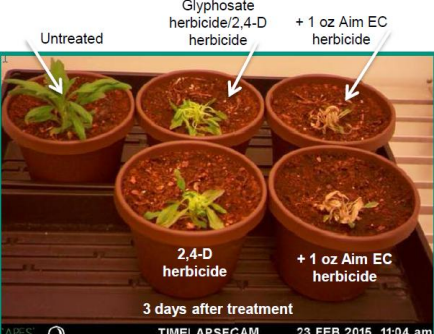
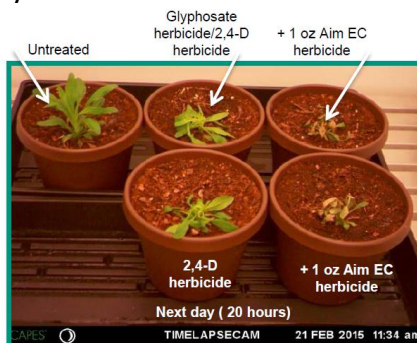
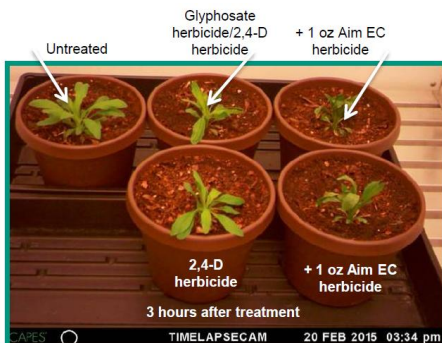
Winter weeds will use this warm spell to initiate growth. Now is the perfect time to kill them while they are small and manageable. Specifically, now is the time to kill marestalk with Aim[®] EC herbicide to increase activity and reduce time to control while nighttime and soil temperatures remain cool.



Including Aim EC herbicide in tank mixtures with 2,4-D will provide an additional mode of action and increase the speed of activity on marestalk in

addition to several tough winter annual weeds. Aim EC herbicide’s efficacy is not temperature dependent and is not affected by early spring applications in cooler than optimal conditions. Including Aim EC herbicide in burndown treatments will increase the consistency of control in varying environmental conditions thereby ensuring swift activity and timely planting.

The time-lapse photos below demonstrate rapid leaf necrosis when Aim EC herbicide was added to 2,4-D LV4 or glyphosate + 2,4-D LV4 just hours after treatment resulting in more consistent and faster activity.



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- **Aim[®] EC Herbicide for Burndown**
- **Authority[®] Brand Herbicides Early Pre Plant**

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The marestalk above were all the same size at application. Glyphosate herbicide/2,4-D herbicide or 2,4-D herbicide in middle pots. Aim EC herbicide added to those treatments in the pots on the right. Greenhouse trial 2015.



Aim[®] EC Herbicide Burndown Recommendations for Winter Weed Management

1. **AIM EC herbicide 1-1.5 oz. + Liberty[®] herbicide 29 - 36 oz. + AMS 2.5 lbs.**
 - Non-residual burndown option for control of emerged weeds
 - Controls glyphosate and/or ALS (Group 2) resistant weeds
 - Improves Liberty performance under cool temperature conditions
 - May tank mix with 1 pt. 2,4-D for additional marestail and winter broadleaf control.
 - PRE Herbicide must be tank mixed for pre-emergence weed control
 2. **Aim EC herbicide 1–1.5 oz. + Glyphosate 1–1.5 lb. ai + AMS 2.5 lbs. + MSO (label rate) or COC 1% v/v**
 - Non-residual burndown option for control of emerged weeds
 - Aim EC herbicide adds second mode of action to aid in controls of glyphosate and/or ALS (Group 2) resistant weeds
 - Improves glyphosate performance and speed under cool temperature conditions
 - May tank mix with 1pt. 2,4-D for marestail and winter broadleaf control
 3. **AIM EC herbicide 1–1.5 oz. + metribuzin 75 DF herbicide product 5-6 oz. + paraquat 2SL herbicide product 32 oz. + COC 1% v/v OR MSO (label rate) + AMS 2.5 lbs.**
 - 3 modes of action for control of glyphosate and/or ALS (Group 2) herbicide resistant weeds
 - May tank mix with 1 pt. 2,4-D for a fourth mode of action for additional marestail control
 - Provides limited residual pre-emergence weed control for soybean fields
 4. **AIM EC herbicide 1-1.5 oz. + paraquat 2SL product 32 oz. + COC 1% v/v OR MSO (labeled rate) + AMS 2.5 lbs.**
 - May tank mix with 1 pt. 2,4-D for additional marestail and winter broadleaf control.
 - Non-residual burndown option for control of emerged weeds
 - Very flexible when planting intentions are unknown
- ❖ **All 4 burndown options are very flexible fits with a strong PRE herbicide such as Authority[®] Brand herbicides for soybean or Anthem[®] MAXX herbicide for corn or soybean.**



NOTE: Green tissue of marestail, able to photosynthesize and re-grow and produce seed under selection pressure of a single herbicide.



NOTE AIM[®] EC herbicide 1 oz provided an additional effective mode of action making the difference in controlling marestail.



32 oz/a + COC 1% v/v + AMS
NOTE Severe burning of green tissue and marestail re-growth. A higher rate of Gramoxone[®] or the addition of Authority MTZ 10- 14 oz which contains metribuzin OR addition of metribuzin 75 DF product would control marestail.



NOTE Marestail dying due to burning and pinching at growth point due to adding AIM[®] EC herbicide 1 oz; use of

DON'T SKIMP

- ❖ Rates – Size
- ❖ Coverage
- ❖ Water Volume
- ❖ Ajuvants



Below are FMC early preplant (EPP) options for soybeans to address the questions we are fielding from growers and applicators wishing to apply burndown and premerge in the same trip across the field. When using herbicides EPP, be prepared to follow up with an early postemergence in crop application to extend the in-season weed control period especially if the field has a history of pigweeds.



No Preplant Program



Authority[®] First DF herbicide 5 oz. + Aim[®] EC herbicide 0.75 oz. + 2,4-D LV6 12 oz./A
Applied 4/6, Photo on 5/8/15

Authority[®] Brand Herbicides – Early Preplant Applications for Soybeans

Advantages of EPP Applications

1. Get ahead of the busy planting season by getting soybean acres sprayed early.
2. Early weed control – Control weeds before they get established. These warm spring temperatures will have weeds growing early and fast.
3. Move from corn planting into soybeans without worrying about plant-back restrictions on burndown programs.

EPP vs. preemergence applications - All the Authority brand 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 for extended residual. You don't want to use a low rate then have it run out too early in the season. For resistant weeds like **waterhemp, Palmer amaranth, common ragweed**, and others, keep the rates up no matter when the application is made to get the best and longest lasting residual control.

Marestail and lambsquarter emerge very early; apply Authority herbicide before they get going is critical in keeping fields clean.

• Authority[®] First DF herbicide: 5 - 6 oz./A

- Provides strong activity on marestail and ragweed making a great choice for tough no-till fields with these problem weeds

• Authority[®] MTZ DF herbicide: 14 - 18 oz./A

- Rotation flexibility
- Excellent option for marestail, pigweed, lambsquarters, morningglories, and nightshade

• Authority[®] XL herbicide: 4 - 6 oz./A

- Strong broadleaf control with combination of sulfentrazone + chlorimuron herbicides.
- Best option for early season morningglory plus marestail, lambsquarter, and nightshade

For Emerged Weeds in No Till

Add Aim[®] EC herbicide 1-1.5 oz. + 2,4-D LV4 1.0 pt. + MSO 1% v/v or COC 1% v/v

888-59-FMC-AG FMCCROP.COM

Always read and follow label directions. NOTE REGARDING RESTRICTED USE PESTICIDES: Anthem ATZ herbicide; Athena insecticide, Brigade 2EC Insecticide/Miticide, Brigade WSB Insecticide/Miticide, Brigadier Insecticide, Capture 3RIVE 3D Insecticide, Capture LFR Insecticide, Declare insecticide, Hero Insecticide, Mustang Insecticide, Mustang Maxx Insecticide, Pounce 2SWP Insecticide, Stallion Brand Insecticide, Ethos XB Insecticide/Fungicide and Gladiator Insecticide/Miticide are **Restricted Use Pesticides**. NOTE FOR CALIFORNIA: Accurate Extra herbicide, Aim EC herbicide, Anthem herbicide, Anthem ATZ herbicide, Anthem Flex herbicide, Anthem Maxx herbicide, Authority Assist herbicide, Authority Elite herbicide, Authority First DF herbicide, Authority Maxx herbicide, Authority MTZ DF herbicide, Authority XL herbicide, Cadet herbicide, Chisum Herbicide, Command 3ME microencapsulated herbicide, Crusher Herbicide, Edition Broadspec herbicide, Edition Tankmix Herbicide, Marvel herbicide, Nimble Herbicide, Nuance Herbicide, Report Extra Herbicide, Solstice herbicide, Spartan 4F herbicide, Spartan Charge herbicide, Spartan Elite herbicide, Zeus Prime XC herbicide, Zeus XC herbicide, Capture 3RIVE 3D insecticide, Ethos XB Insecticide/Fungicide, Hero Insecticide, Mustang Maxx Insecticide, Topguard Terra Fungicide, Topguard Fungicide Specialty Crops fungicide, Display cotton harvest aid, VGR Soil Amendment **are not registered for sale or use in California**. Beleaf and Carbine are trademarks of Ishihara Sangyo Kaisha, Ltd. Cercobin is a trademark of Nippon Soda Co., LTD. Sovran is a registered trademark of BASF. FMC, 3RIVE 3D, Accurate, Aim, Anthem, Athena, Authority, Brigade, Brigadier, Cadet, Capture, Chisum, Command, Crusher, Declare, Display, Edition, Ethos, Fortix, Fracture, Fyfanon, Gladiator, Hero, Koverall, LFR, Marvel, Mustang, Nimble, Obey, Pounce, Report, Rhyme, Rovral, Shark, Solida, Solstice, Spartan, Stallion, Topguard, Topguard Terra and Zeus are trademarks and HatchTrak and "Investing in farming's future" are service marks of FMC Corporation or an affiliate. ©2016 FMC Corporation. All rights reserved. 10-29-15

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