

# HatchTrak<sup>SM</sup>



April 6, 2017

## Weed Scouting, Weed ID, AIM<sup>®</sup> EC Herbicide, Authority<sup>®</sup> Brand Herbicides, Anthem<sup>®</sup> MAXX Herbicide, Cadet<sup>®</sup> Herbicide & Overlapping Residuals

☐ 2017 Spring has exploded; Listed below are 4 critical factors to consider for Weed Control

- ✓ Weed germination driven by soil temperature and moisture
- ✓ Pre-emergence herbicides activation dependent upon adequate moisture
- ✓ Smaller emerged weeds easier to control
- ✓ Weeds that cannot emerge cannot be exposed to a herbicide and cannot be selected for herbicide resistance

☐ Overlapping Residual Programs

- ✓ Starting clean and staying clean is the means to effective weed control by Overlapping Residuals
- ✓ Effective Pre-emergence herbicides are applied well in advance of weed & crop emergence
- ✓ Overlapping Residual herbicides need to be applied before earlier applied herbicide(s) weed control breaks
- ✓ Application flexibility of effective Overlapping Residual herbicides as well as tank-mixes are key to successful weed control regardless of tillage, seed traits and variety maturity



### Inside This Issue

- ☐ Weed Scouting and Utilizing Overlapping Residuals
- ☐ Overlapping Residuals Data

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Overlapping residual herbicide application should occur before weeds reach 2 inches in height, about below the second knuckle of one's index finger.



### Early to Late Weed Emergence

If planting soybeans is 14 -30 days away use Aim<sup>®</sup> EC herbicide 1 oz./A + 2,4-D LVE 1 pt./A + Authority Brand herbicide + COC 1% v/v. If grasses are present add glyphosate 32 oz./A – small weeds are easier to control. Early pre-plant and pre-plant herbicides will need an overlapping residual herbicide such as Anthem MAXX herbicide applied early post-emergence for adequate, residual weed control.

If planting soybeans in 7 days or less through 3 days after planting use Aim EC herbicide 1 oz./A + Authority<sup>®</sup> XL herbicide, Authority<sup>®</sup> First DF herbicide or Authority<sup>®</sup> MTZ DF herbicide + COC 1% v/v. Consider adding paraquat at 3 pints + Authority MTZ DF herbicide 12-14 oz./A + Alim1 oz./A COC 1%v/v OR paraquat 2-3 pt./A + metribuzin 5-6 oz. + Authority Brand herbicide + COC 1% v/v at plant through 3 days after planting.

Length of Weed Emergence or Flush

	EARLY EMERGERS ➤ GDD < 150	EARLY / MID EMERGERS ➤ GDD 150 -300	MID EMERGERS ➤ GDD 250 -400	LATE EMERGERS ➤ GDD 250 -400
SHORT 2-4 WEEKS				
MODERATE 4-8 WEEKS				
LONG 6-12 WEEKS				

Use Authority XL herbicide, Authority First DF herbicide and Authority MTZ DF herbicide higher rates for a given soil type to control Cocklebur, Ragweeds, Lambsquarters, Velvetleaf and Foxtail when planting 14 days or more. Consider a glyphosate OR glufosinate + Anthem MAXX herbicide POST Program up to V-3 soybeans, Roundup Ready<sup>®</sup> or LibertyLink<sup>®</sup> respectively.

Where marestail, tall waterhemp, grasses are present, consider Authority MTZ DF herbicide + paraquat OR an Authority Brand herbicide + metribuzin + paraquat treating marestail are resistant to multiple modes of action.

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## Overlapping Residuals – Authority<sup>®</sup> Brand herbicides followed by Anthem<sup>®</sup> MAXX herbicide tankmix (EPOST)

Excellent Fit to Increases Yields & Profit Potential in:

- 1) Non-GMO
- 2) Roundup Ready<sup>®</sup> Soybeans
- 3) LibertyLink<sup>®</sup> Soybeans

### 2016 Michigan State Non-GMO Soybean Herbicide Trial



Authority<sup>®</sup> MTZ DF herbicide 14 oz./A [PRE] fb [EPOST] Anthem MAXX herbicide 3 fl oz./A + Flexstar<sup>®</sup> herbicide 1 pt./A + Select Max<sup>®</sup> herbicide with Inside Technology<sup>™</sup> 9 fl oz./A + COC 1% v/v + AMS 2.5lbs



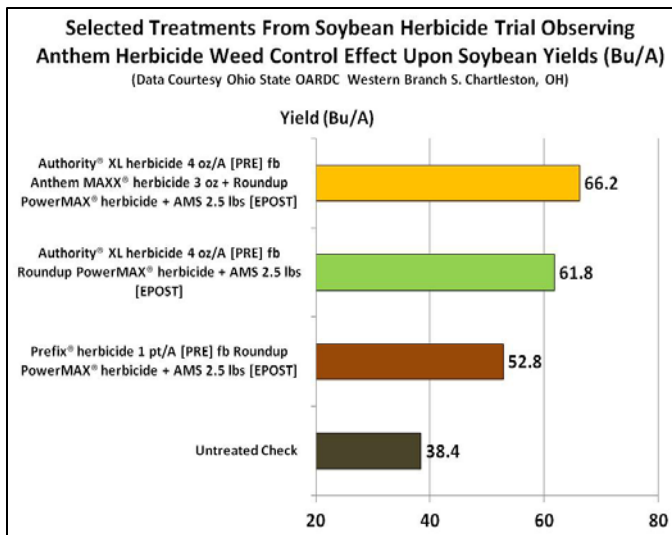
Valor<sup>®</sup> herbicide 2 oz./A + metribuzin 8 oz./A [PRE] fb [EPOST] Warrant<sup>®</sup> Ultra herbicide 48 fl oz./A + Select Max herbicide with Inside Technology 9 fl oz./A + NIS 0.25% v/v

### 2016 Michigan State LL Soybean Herbicide Trial



Authority<sup>®</sup> XL herbicide 4 oz./A [PRE] fb [EPOST] Anthem MAXX herbicide 3 fl oz./A + Liberty<sup>®</sup> herbicide 29 oz./A + AMS 2.5lbs

Untreated Check



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 25WP Insecticide, Stallion Brand Insecticide, Temtry LFR Insecticide/Fungicide, Triple Crown Insecticide, Ethos XB Insecticide/Fungicide and Gladiator Insecticide/Miticide are **Restricted Use Pesticides**. NOTE FOR CALIFORNIA: Accurate Extra herbicide, Aim herbicide, Aim EC herbicide, Aim EW 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, Preemptor SC fungicide, Report Extra Herbicide, Solstice herbicide, Spartan 4F herbicide, Spartan Charge herbicide, Spartan Elite herbicide, Temtry LFR Insecticide/Fungicide, Topguard EQ fungicide, Zeus Prime XC herbicide, Zeus XC herbicide, Capture 3RIVE 3D insecticide, Ethos XB Insecticide/Fungicide, Hero Insecticide, Mustang Maxx Insecticide, Display cotton harvest aid, Zoro Miticide and VGR Soil Amendment **are not registered for sale or use in California**. VGR Soil Amendment is not a pesticide. 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, Preemptor, Fracture, Fyfanon, Gladiator, Hero, Koverall, LFR, Marvel, Mustang, Nimble, Obey, Pounce, Report, Rhyme, Rovral, Shark, Solida, Solstice, Spartan, Stallion, Temtry, Topguard, Topguard Terra, VGR 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. 11/16

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