

Summary of new information in the 2017 Weed Control Guide:

www.ndsu.edu/weeds - Web version of ND Weed Control Guide.

HERBICIDE UPDATE:

Discontinued products: Accolade, Bayonet 2, some bromoxynil/bromoxynil + MCPA/2,4-D products, Brazen, Buctril, Certainty, Clearfield Max, Curio, Expert, Glyphosate products sold by Syngenta (Touchdown products and Traxion), FireFox, G-Max Lite, Gramoxone Inteon, Guardsman Max, Hardball, Imperium, Journey, PowerPlay, Pulsar, Require Q, Sahara, Stanza, Stout, Telar, Tie Down, Wolfpack Advanced, Zemax.

Name change:

Alluvex (Dupont) = Lead Off (Dupont)

Formulation change:

Old - Anthem (FMC) = fluthiacet + pyroxasulfone 0.0632 + 2.09
New - Anthem Maxx = fluthiacet + pyroxasulfone 0.126 + 4.174SC
Garlon (triclopyr-ester) = Vastlan (triclopyr-choline)
Valor SX (51WDG) = Valor EZ (4SC) (2 oz DF = 2 fl oz SC)

Generic product changes:

DuPont products: (Q designates a safener for corn)

- Alluvex = rimsulfuron + Harmony 16.7 + 16.7% - corn EPP/PRE
- Basis Blend = rimsulfuron+Harmony 20%+10% - corn PRE/POST
- LeadOff = rimsulfuron + Harmony 16.7 + 16.7% - corn EPP/PRE
- Resolve Q = rimsulfuron+Harmony 18.4%+4% - corn PRE/POST
- Require Q = rimsulfuron + dicamba 6.25%+53% - corn POST
- Realm Q = rimsulfuron + Callisto 7.5% + 31.25% - corn POST
- Revulin Q = Accent + Callisto 14.4%+36.8% - corn POST

- Sentrallas = Harmony + Starane - POST in small grains
- Travallas = Harmony + Ally + Starane - POST in small grains
- Panoflex = Harmony + Express 10%+40% - fallow and EPP
- Afforia = Harmony + Express + Valor. EPP/PRE in soybean.

New products/formulations:

- Avadex MA 10DF (Gowan) = same ai (triallate) as Far-Go
- Acuron Flexi (Syngenta) = Acuron without atrazine
- Anthem Flex (FMC) = Zidua + Aim registered in wheat
- CleanTraxx (Dow) = penoxsulam & oxifluorfen - Reg. pending
DiFlex Duo (Bayer) = dicamba & Laudis & cyprosulfamide safener in corn
- Engenia (BASF) = dicamba-BAPMA salt in dicamba resistant soybean - Registration pending
- Enlist Duo (Dow) = 2,4-D-choline salt + glyphosate-dma salt in Enlist soybean - Seed trait registration pending
- FeXapan (Dupont) = XtendiMax (Monsanto) = dicamba-dga + VG
- Quelex = florasulam & halauxifen in small grains
- Resicore (Dow) = Surpass + Callisto + Stinger in corn
- Roundup Xtend = glyphosate-mea + dicamba-dga (Clarity) + VaporGrip in dicamba resistant soybean - Registration pending
- Talinor (Syngenta) = bromoxynil & bicyclopyrone & safener in small grains - Registration pending.
- Teammate = pyroxsulam & safener in wheat - Reg. pending
- Warrant Ultra (Monsanto) = Warrant + Flexstar in soybean
- Xtendimax = dicamba-dga (Clarity) + VaporGrip in dicamba resistant soybean
- Zidua Pro = Zidua + Sharpen + Pursuit in soybean

Major Weed Guide Updates

- **Flexstar** geography expanded to some ND counties west of hwy 281 for weed control in soybean - see page 26 - Reg. pending

- **Roundup Xtend soybean** - strongly advised to read ND supplemental label and page 28 and paragraph E4 on page 81.

Registered herbicides:

Xtendimax = dicamba-dga salt (Clarity) + VaporGrip
Refer to web site: www.xtendimaxapplicationrequirements.com
for required information. Follow label with extreme exactness!

Herbicide registration pending:

1. RU Xtend = glyphosate-mea + dicamba-dga + Vapor Grip
64 fl oz/A = dicamba at 1 pt/A (0.5 lb ae/A) +
glyphosate at 1 lb ae/gal
2. Engenia (BASF) = 5SL = dicamba-BAPMA salt
BAPMA = (Bis(3-aminopropyl)methylamine))
3. Registration of other dicamba brands possible:
FeXapan (Dupont) = XtendiMax + Vapor Grip

- **Pasture and rangeland** - Dupont products sold to Bayer.

- Herbicide Resistant Weeds:

- Palmer amaranth documented in MN from contaminated native seed mixtures primarily for pollinator plots. Please continue to watch for any Palmer amaranth in ND from transported seed.
- Group 14 PPO resistant waterhemp documented in MN.
- Group 14 PPO resistant common ragweed suspected in ND.
- Group 14 PPO and Group 4 (dicamba) resistant kochia likely to develop in ND.

- **Crop rotation restrictions** clarified for dicamba.
Banvel, Clarity, and XtendiMax - page 6 and 102.

- Guidelines for laboratory analysis from plant tissue:

Glyphosate on dry beans - page 106.
Other pending crops to be added in the future.

- **Residual weed control (weeks) added to Soil Applied Herbicide section** - page 112.

- **Herbicides Compendium updated** - Products/prices updated - pages 118-125

- **Adjuvant Compendium updated** - Products/prices updated.
Sections created: +/- ammonium - pages 126-128.

- **2017 Weed of the Year** - Horseweed.

Emerging New Active ingredients:

- tolypyralate (ISK Biosciences) - HPPD (Group 27) in corn

Expected Weed Management Traits:

1. Enlist Weed Control System (Dow)
DHT 1 technology in corn = resistance to 2,4-D and "fops"
DHT 2 technology in soybean = resistance to 2,4-D, MCPA, fluroxypyr, and triclopyr.
Enlist Duo herbicide =
2,4-D-choline salt + glyphosate-dma (1.6 + 1.7 lb ae/gal)
3.5 to 4.75 pt/A = 0.7 to 0.95 lb ai/A 2,4-D +
0.75 to 1 lb ae/A glyphosate
2. HPPD resistant soybean (Bayer/Syngenta)
 1. Balance Bean - isoxaflutole herbicide in soybean
 2. Balance GT - HPPD + glyphosate in soybean

IR-4 Residue Studies to be Conducted in 2017:

Bassica crop group - uniconazole
Dry bean/dry pea - propaonazole, pyroxasulfone, tribenuron
Grasses (pasture) - pronamide
Mint - fluopyram, saflufenacil
Safflower - befenthrin
Sunflower - diquat (preharvest)
Quinoa - cycloate, mandipropamid
Stevia - halosulfuron
Teff - pyroxsulam

Quick reference information:

1. NDSU Weed Science Home Page:
<http://www.ndsu.edu/weeds/>
2. <agdakota> list serve: Timely updates in pesticide registration and crop production information. To subscribe, send email to r.zollinger@ndsu.edu
3. U.S. registered pesticide labels:
<http://www.cdms.net/manuf/manuf.asp>
4. North Dakota Department of Ag registered pesticide database:
<http://www.kellysolutions.com/nd/>
5. SAFETY AND EMERGENCY PHONE NUMBERS:
ND Poison Control Line: 800-222-1222
ND Emergency Assistance Line: 800-472-2121
Report pesticide incident to NDDA: 701-328-2232

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