

ROUNDUP READY® **XTEND** CROP SYSTEM

WELCOME



ROUNDUP READY® XTEND CROP SYSTEM



ROUNDUP READY 2 XTEND® SOYBEANS

- Built on the high yield potential of Roundup Ready 2 Yield® technology
- Provides tolerance to both **glyphosate** and **dicamba**




ROUNDUP READY 2
XTEND
SOYBEANS

Roundup Ready 2 Xtend® Soybeans are tolerant to dicamba and glyphosate
* Bayer Canada Technology Development, Chatham ON, 2014

©2019 Bayer Group Company Confidential

ROUNDUP READY®
XTEND
CROP SYSTEM


XTENDIMAX® WITH VAPORGRIP® TECHNOLOGY & ROUNDUP XTEND® WITH VAPORGRIP® TECHNOLOGY HERBICIDES



HERBICIDE GROUP 4 AND GROUP 9

A pre-mix of our low-volatility dicamba formulation and glyphosate.

OR



HERBICIDE GROUP 4

A low-volatility dicamba formulation. Tank mix with a Roundup-brand agricultural herbicide product such as Roundup WeatherMAX® or Roundup Transorb® HC for optimal weed control.

Equivalent tank mix doses of glyphosate and dicamba when applying Roundup Xtend®

Roundup Xtend® with VaporGrip® Technology	Roundup WeatherMAX® or Roundup Transorb® HC herbicide	XtendiMax® with VaporGrip® Technology
L/ac (g/ha)	L/ac (g/ha)	L/ac (g/ha)
2	0.9 (1200)	0.7 (600)
1.5	0.67 (900)	0.5 (450)
1	0.45 (600)	0.35 (300)

- Up to 14 days soil activity* from dicamba on certain small-seeded broadleaf weeds.
- Designed specifically for the Roundup Ready® Xtend Crop System

* Results may vary, depending on rainfall and soil type. For full season residual weed control, use dicamba with traditional residual herbicides that have different, effective sites of action.

INTRODUCING THE NEW 450 L TOTE FOR ROUNDUP XTEND® HERBICIDE WITH VAPORGRIP® TECHNOLOGY



- Cover **more** area and help control **more** weeds* with the most effective premix on the market for burndown and residual weed control
- We recommend the 2 L/ac rate (high rate) as the best burndown option for no-till situations
- New tote size also available for XtendiMax® herbicide with VaporGrip® Technology

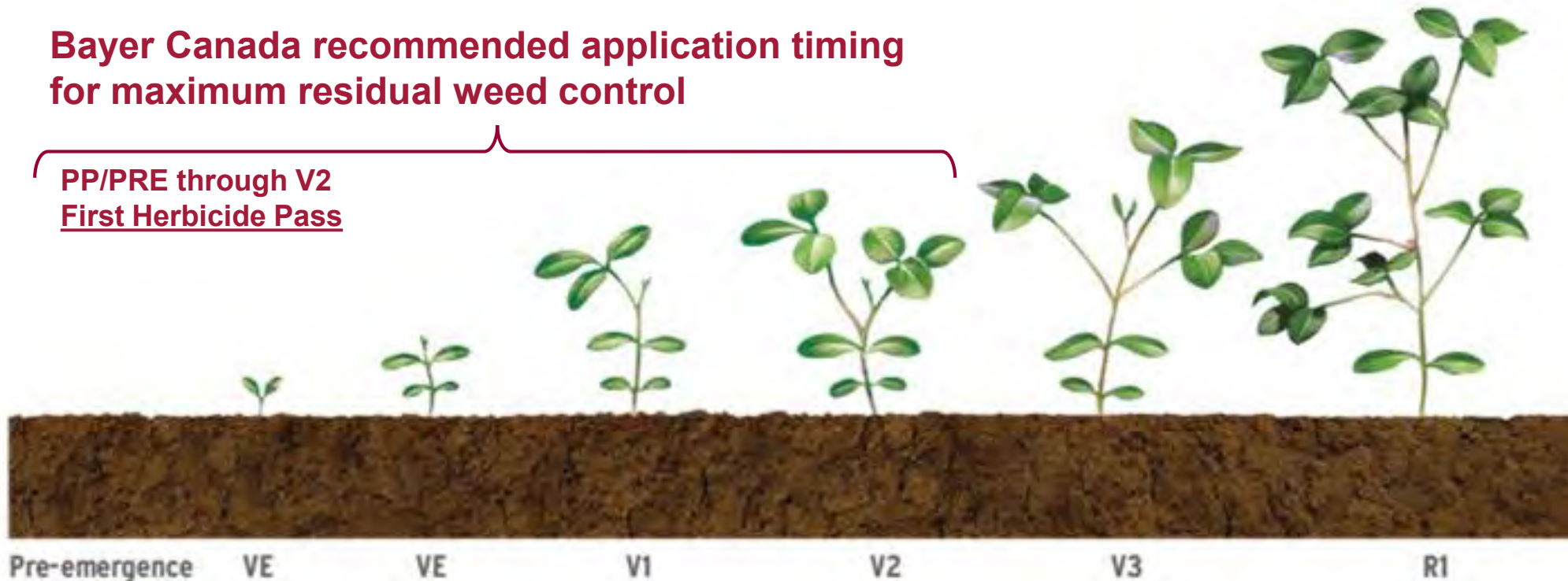
* When compared with the 10 L tote size

WINDOW OF APPLICATION

Application window for XtendiMax® herbicide with VaporGrip® Technology and Roundup Xtend® herbicide with VaporGrip® Technology

**Bayer Canada recommended application timing
for maximum residual weed control**

**PP/PRE through V2
First Herbicide Pass**



DICAMBA IS THE FOUNDATIONAL HERBICIDE IN THE ROUNDUP READY® XTEND CROP SYSTEM

- Provides excellent control of tough-to-manage and herbicide resistant weeds*
 - Ladysthumb
 - Lambsquarters
 - Velvetleaf
 - Wild buckwheat
 - Canada fleabane**
 - Giant ragweed**
 - Kochia**
 - Waterhemp**
- Solid weed resistance management tool when used as part of a diversified weed management program.

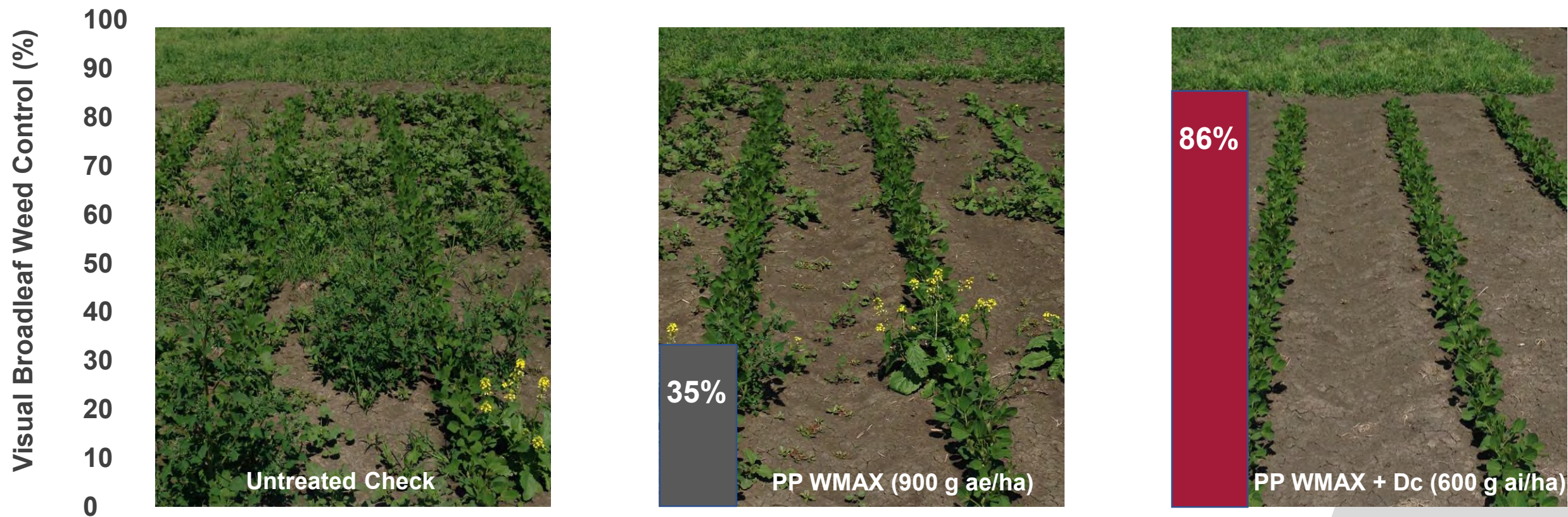


Roundup Xtend® with VaporGrip® Technology applied at 2 L/acre
University of Guelph, Ridgetown Campus, 20 DAT (June, 2016)

- * Source: OMAFRA Guide to Weed Control Publication 75 (2018)
- ** also controls glyphosate resistant biotypes.

XTENDED RESIDUAL WEED CONTROL WITH XTENDIMAX[®] HERBICIDE WITH VAPORGRIP[®] TECHNOLOGY

Short term residual broadleaf weed control from dicamba applied pre-plant (weed control rated prior to POST (V3-V4) herbicide application)



Source: Bayer Canada TD research trials, MB, ON, QC 2008 – 2015

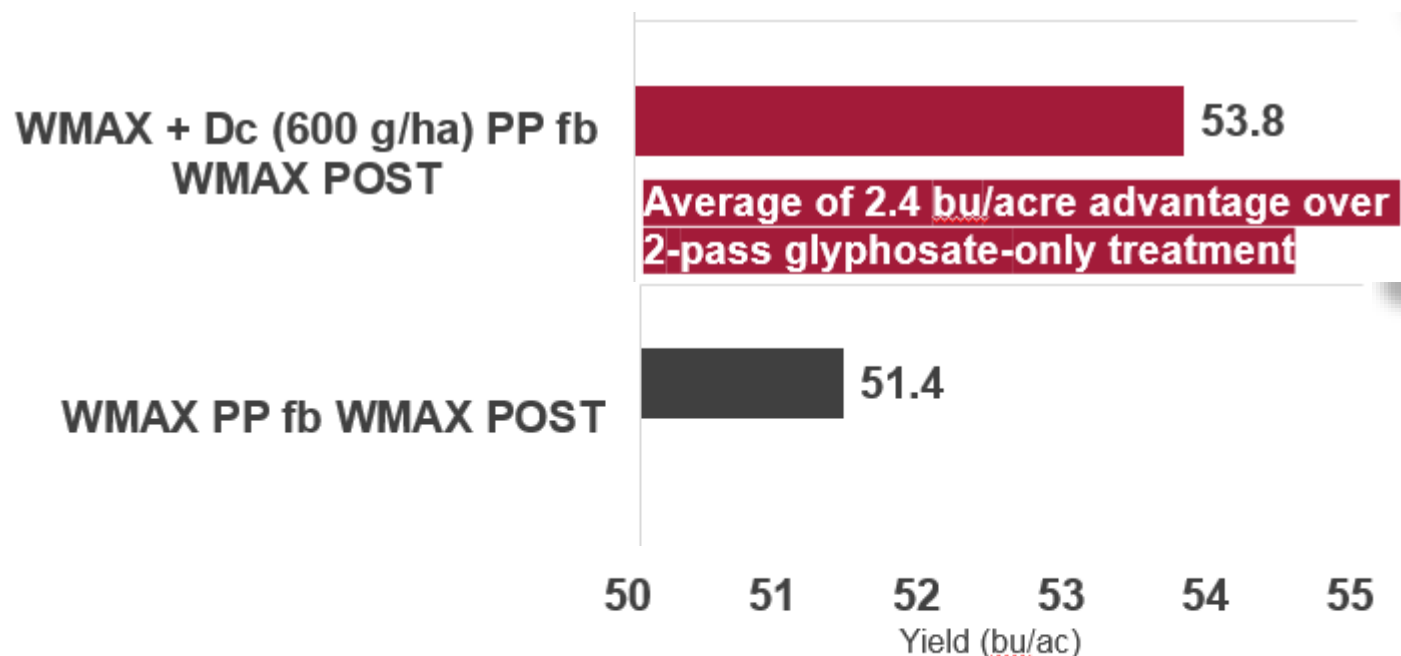
PP = preplant/pre-emerge, WMAX = Roundup WeatherMAX[®] (900 g ae/ha = 0.67 L/ac), Dc=Dicamba (DGA Salt) (600 g ai/ha is equivalent to 0.7 L/ac XtendiMax[®] with VaporGrip[®] Technology) The % Control Ratings shown are the average of all the ratings in all the trials (n = 91) (BL weeds: CHEAL-34, AMARE-17, AMBEL-13, ABUTH-8, POLCO-8, SOLPT-7, POLPE-3, KCHSC-1) The photos above show higher control levels than the average ratings

©2019 Bayer Group Company Confidential

ROUNDUP READY[®]
XTEND
CROP SYSTEM

INCREASE IN YIELD POTENTIAL FROM EARLY SEASON WEED REMOVAL

Early weed removal & short-term soil residual weed control provides increased yield potential in Roundup Ready 2 Xtend® Soybeans



Bayer Canada Technology Development, Simcoe, ON. 2008

PP = preplant/pre-emerge, WMAX = Roundup WeatherMAX® at 900 g/ha (0.67 L/ac), Dc=Dicamba (DGA salt), POST = post emerge at 3rd trifoliolate
600 g/ha is equivalent to 0.7 L/ac XtendiMax® with VaporGrip® Technology
Source: Bayer Canada TD research trials, 2008 – 2014 (n=39)

©2019 Bayer Group Company Confidential

ROUNDUP READY®
X-TEND
CROP SYSTEM

WEEDS CONTROLLED BY ROUNDUP XTEND® HERBICIDE WITH VAPORGRIP® TECHNOLOGY (OR TANK MIX OF ROUNDUP WEATHERMAX® HERBICIDE & XTENDIMAX® HERBICIDE WITH VAPORGRIP® TECHNOLOGY)

- annual blue grass
- annual sow thistle
- **barnyard grass**
- biennial wormwood
- bur cucumber
- Canada fleabane
- Canada thistle
- chickweed
- **cleavers**
- cocklebur
- **common lambsquarters**
- Common, false and giant ragweed
- corn spurry
- cow cockle
- crabgrass (smooth, large)
- dandelion
- downy brome
- eastern black nightshade
- fall panicum
- flixweed
- **green and yellow foxtail**
- green smartweed
- hempnettle
- **kochia**
- ladythumb
- mustard (hare's ear, Indian, tumble, wormseed)
- **narrow leaved hawk's beard**
- night flowering catchfly
- Pennsylvania smartweed
- **perennial sow-thistle**
- Persian dandelion
- prickly lettuce
- quackgrass
- **redroot pigweed**
- **round-leaved mallow**
- Russian pigweed
- **Russian thistle**
- **shepherd's-purse**
- smooth pigweed
- **stinkweed**
- stork's bill
- **velvetleaf**
- Narrowleaf vetch
- volunteer adzuki beans
- volunteer barley
- **volunteer canola (non-glyphosate-tolerant)**
- volunteer flax
- volunteer wheat
- **wild buckwheat**
- wild mustard
- **wild oats**
- wild proso millet
- wild tomato

ROUNDUP XTEND® HERBICIDE WITH VAPORGRIP® TECHNOLOGY vs. ENLIST DUO® HERBICIDE FOR RESIDUAL WEED CONTROL



Roundup Xtend® herbicide with
VaporGrip Technology® at 2 L/ac



Enlist Duo® herbicide at 1.74 L/ac

Residual control of glyphosate-resistant kochia at 37 days after application.

Source: Bayer Canada Technology Development, Carseland, AB. 2018

HELPS CONTROL GLYPHOSATE RESISTANT KOCHIA

Glyphosate Resistant Kochia Control:

Roundup Xtend® herbicide with VaporGrip® Technology OR XtendiMax® herbicide with VaporGrip® Technology + Roundup WeatherMAX® herbicide or Roundup Transorb® HC herbicide plus one of the following (applied PP/PRE):

- Valtera®
- Fierce®
- Heat®
- Authority® 480



Bayer Canada Market Development, Melita, MB. 2018. Approximately 85 DAT of 2 L/ac Roundup Xtend.

HELPS CONTROL GLYPHOSATE RESISTANT WATERHEMP*

*As part of a 2-pass system with a full PRE-treatment option followed by Roundup Xtend® herbicide with VaporGrip® Technology early post at the 2 L/ac rate.



Untreated Check



**Fierce® (flumioxazin + pyroxasulfone) PRE
Roundup Xtend® with VaporGrip®
Technology POST**

Source: Bayer Canada Technology Development and University of Guelph research trial, Essex ON, 2016

©2019 Bayer Group Company Confidential

ROUNDUP READY®
X TEND
CROP SYSTEM

HELPS CONTROL GLYPHOSATE RESISTANT GIANT RAGWEED



0.67 L/ac Roundup WeatherMAX® herbicide PRE



**0.67 L/ac Roundup WeatherMAX® herbicide & Dicamba
600 g/ha PRE**

CONSIDERATIONS FOR VOLUNTEER CANOLA CONTROL

Scenario	Pre-Seed Base Treatment	Pre-Seed Tank Mix Partner	In-Crop (up to V3 Soybeans)
High pressure situations following canola	Roundup Xtend® herbicide with VaporGrip® Technology (2 L/ac)	Express® SG (6 g/ac)	DAVAI™ 80SL (100 mL/ac) + Roundup WeatherMax® (0.67 L/ac)
		Valtera™ (56 to 85 g/ac)	
	XtendiMax® herbicide with VaporGrip® Technology (0.7 L/ac) + Roundup WeatherMAX® herbicide (0.67 – 1.33 L/ac)	Express® SG (6 g/ac)	
		Valtera™ (56 to 85 g/ac)	
Low pressure situations following crops other than canola	Roundup Xtend® with VaporGrip® Technology (2 L/ac)		
	XtendiMax® with VaporGrip® Technology (0.7 L/ac) + Roundup WeatherMAX® (0.67 – 1.33 L/ac)		

Recommendations based on Bayer Market Development research trials 2013 – 2018 conducted in Western Canada.

CONSIDERATIONS FOR VOLUNTEER CANOLA CONTROL

- **For high pressure situations following canola:**

- **PRE-SEED:**

- Express® SG (6 g/ac) or Valtera™ (56 to 85 g/ac) + Roundup Xtend® with VaporGrip® Technology at (2 L/ac)

OR

- Express® SG (6 g/ac) or Valtera™ (56 to 85 g/ac) + XtendiMax® with VaporGrip® Technology (0.7 L/ac) + Roundup WeatherMAX® (0.67 to 1.33 L/ac)

- **POST (up to V3 stage):**

- DAVAI™ 80SL (100 mL/ac) + Roundup WeatherMAX® (0.67 L/ac)

- **For low pressure situations following crops other than canola:**

- **PRE-SEED:**

- Roundup Xtend® with VaporGrip® Technology (2 L/ac)

OR

- XtendiMax® with VaporGrip® Technology (0.7 L/ac) + Roundup WeatherMAX® (0.67 to 1.33 L/ac)

- **POST (up to V3 stage):**

- DAVAI™ 80SL (100 mL/ac) + Roundup WeatherMAX® (0.67 L/ac)

Recommendations based on Bayer Market Development research trials 2013 – 2018 conducted in Western Canada.

EXAMPLE ROTATION MANAGING KEY HERBICIDE RESISTANT WEEDS

** KEY DRIVER WEEDS

GR 1 Resistant WILD OATS; 4 Year Western Canada Crop Rotation - Sustainable Weed Management, Volunteer Canola Control, and Pre-Seed strategies
GR 9 Resistant KOCHIA



Crop	Year 1 TruFlex™ CANOLA	Year 2 WHEAT	Year 3 CORN	Year 4 SOYBEANS
Pre-Seed Products	Conquer® + Edge™ + Roundup Transorb® HC Residual WO control, Vol Canola control with no restrictions	Avadex® + Roundup Transorb® HC Residual WO and Vol Can Control	Roundup Transorb® HC + Focus® Residual Control,	Xtendimax®/ Roundup Xtend® with VaporGrip® Technology + Fierce® / Sencor® Residual control - early weed removal yield advantage
POST Products	Roundup WeatherMAX® Flexibility. Control of hard to kill weeds	Velocity m3 Vol Canola control, several MOA's	Roundup WeatherMAX®+ Armezon® Vol Canola control, good crop safety window	Roundup WeatherMAX®+ Viper® ADV/Davai™ Vol Canola control, excellent crop safety
Pre/Post Harvest Products	Distinct® or Roundup Xtend® with VaporGrip® Technology Residual Kochia control, no re-cropping restrictions on wheat	Heat® + Roundup Transorb® HC Late season weed control, acts as a desiccant		
Cultural Practices	Combine Settings. Pod Shatter varieties. Heavy harrow. * Reduce volunteer pressure. Encourage volunteer germination in fall	Winter Wheat. Increased wheat seeding rates. Tillage. Cover crops. *Increase crop competitiveness. Weed seed bank management	Early season weed control. *Increase crop competitiveness.	Tillage/ Disc ripper. Increased seeding rates/ narrower rows *Increase crop competitiveness. Weed seed bank management
Total Modes of Action	5 Groups 3 and 9 on WO Groups 14, 4 and 3 on KO	6 Groups 2,8,9 on WO Groups 6,27,14 on KO	5 Groups 9, 15 on WO Groups 14,15, 27 on KO	6 Groups 2, 9 on WO Groups 5/4, 27, 14, 15 on KO

Goal: at least 2 effective MOA on each driver weed per season: Sustainability, vol. management and herbicide resistance management

KEY APPLICATION REQUIREMENTS



- Use only spray nozzles that produce extremely coarse to ultra-course spray qualities (preferably Ultra Coarse)



- Triple rinse clean-out is required with an ammonia-based tank cleaner



- Do not apply this product during a temperature inversion (“dead calm” conditions) as the off-target movement potential is high. In general, temperature inversions are more likely during nighttime hours.

KEY RECOMMENDATIONS FOR SUCCESS WITH THE ROUNDUP READY® XTEND CROP SYSTEM



PRE-EMERGENCE



ULTRA COARSE



CORRECT PRESSURE



- Apply the high label rate of XtendiMax® herbicide with VaporGrip® Technology along with Roundup WeatherMAX® herbicide or Roundup Xtend® herbicide with VaporGrip® Technology as part of the **first herbicide application** in the field
- Use Ultra Coarse (UC) spray quality and follow the application requirements: it is important to maintain proper operating pressure to maintain adequate pattern and droplet size
- Include an additional effective site of action when targeting glyphosate-resistant weeds for effective weed control and proper herbicide stewardship.
- For complete application requirements read and follow product labels on GenuityTraits.ca

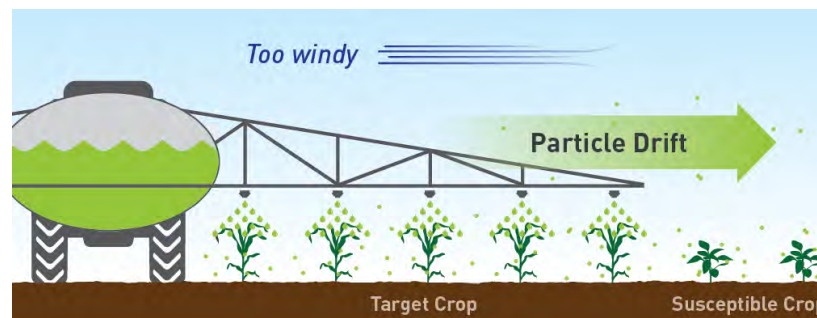
APPLICATION REQUIREMENTS: *WHAT YOU NEED TO KNOW*



THERE ARE THREE DIFFERENT TYPES OF OFF-TARGET MOVEMENT

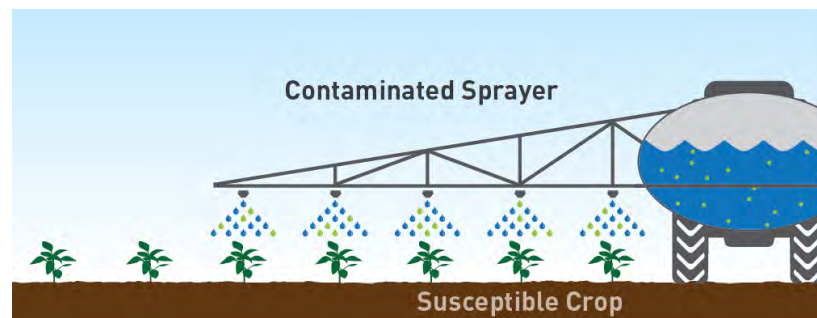
Physical Drift

- Physical movement of spray particles DURING application. **Most common and significant type** of off-target movement for any herbicide



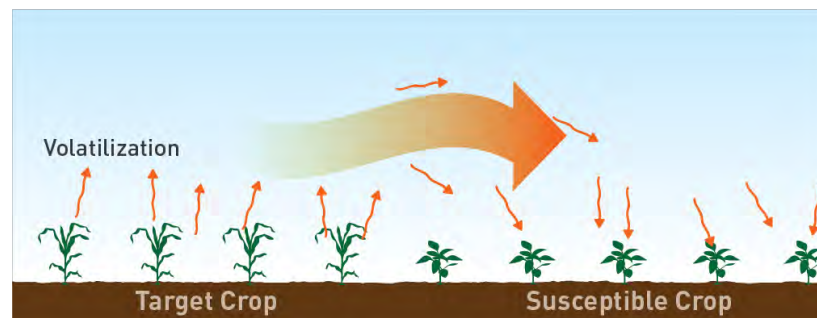
Sprayer Contamination

- Off-target movement from herbicide residue remaining in sprayer components



Volatility

- Movement of a herbicide in a volatilized form as a gas or vapor AFTER spray application. **Least frequent type** of off-target movement


















SPRAYER SET-UP

- The best way to reduce spray drift potential is to apply coarser spray qualities that provide sufficient coverage and weed control
 - Use only spray nozzles that produce EXTREMELY COARSE (XC) TO ULTRA COARSE (UC) SPRAY QUALITIES
 - Adjust pressure to maintain XC to UC spray qualities and do not exceed the nozzle manufacturers recommended pressures
 - Nozzle selection and pressure combined determine droplet size and percentage of driftable fines (<141 microns)
- Bayer Canada suggests the Turbo TeeJet® Induction (TTI) nozzle or other nozzles/spray systems that meet XC to UC spray qualities



PHYSICAL DRIFT CAN CAUSE BROAD UNIFORM SYMPTOMOLOGY

Bayer Deposition Trials Predict Effects from Off-Label Nozzle Selection & Boom Height

DROPLETS		DISTANCE		DRIFTABLE FINES	NOZZLES	NOZZLES
Category	Microns	Boom Ht. 20"	Boom Ht. 50"	% Fines	Type	Type
UC Ultra-Coarse	 > 622	50 ft.	90 ft.	< 1.5%		Turbo Tee-Jet® Induction (TTI)
XC Extremely Coarse	 428-622	69 ft.	138 ft.	1.5-3.3%	   	Hypro Ultra Low-Drift, UR & DR Wilger®, AI/AIC Tee-Jet®
VC* Very Coarse	 349-428	108 ft.	207 ft.	3.4-5.6%	    	Air Bubble Jet, A1XR Tee-Jet®, DR Wilger®, Airmix Greenleaf, TDXL Greenleaf, AI/AIC Tee-Jet®
M Medium Coarse	 177-218	358 ft.	544 ft.	11.7-22.3%		XR Tee-Jet®

Not Approved

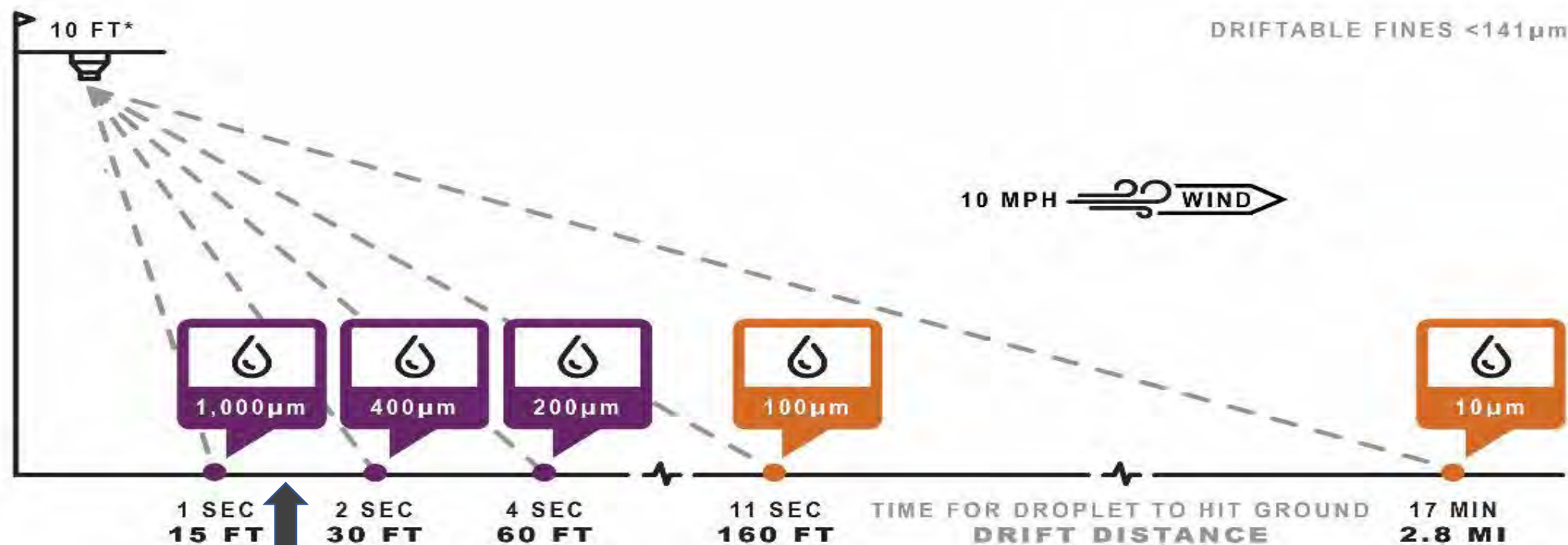
Not Approved

Distance to 15% visual response were estimated from spray drift models and Bayer field studies at wind speeds of ~16 kph

©2019 Bayer Group Company Confidential

CONTROL THE CONTROLLABLE

Effect of droplet size over fall of 10 feet



Turbo TeeJet® Induction (TTI) Nozzle, average droplet size ~ 650 microns at 60 psi

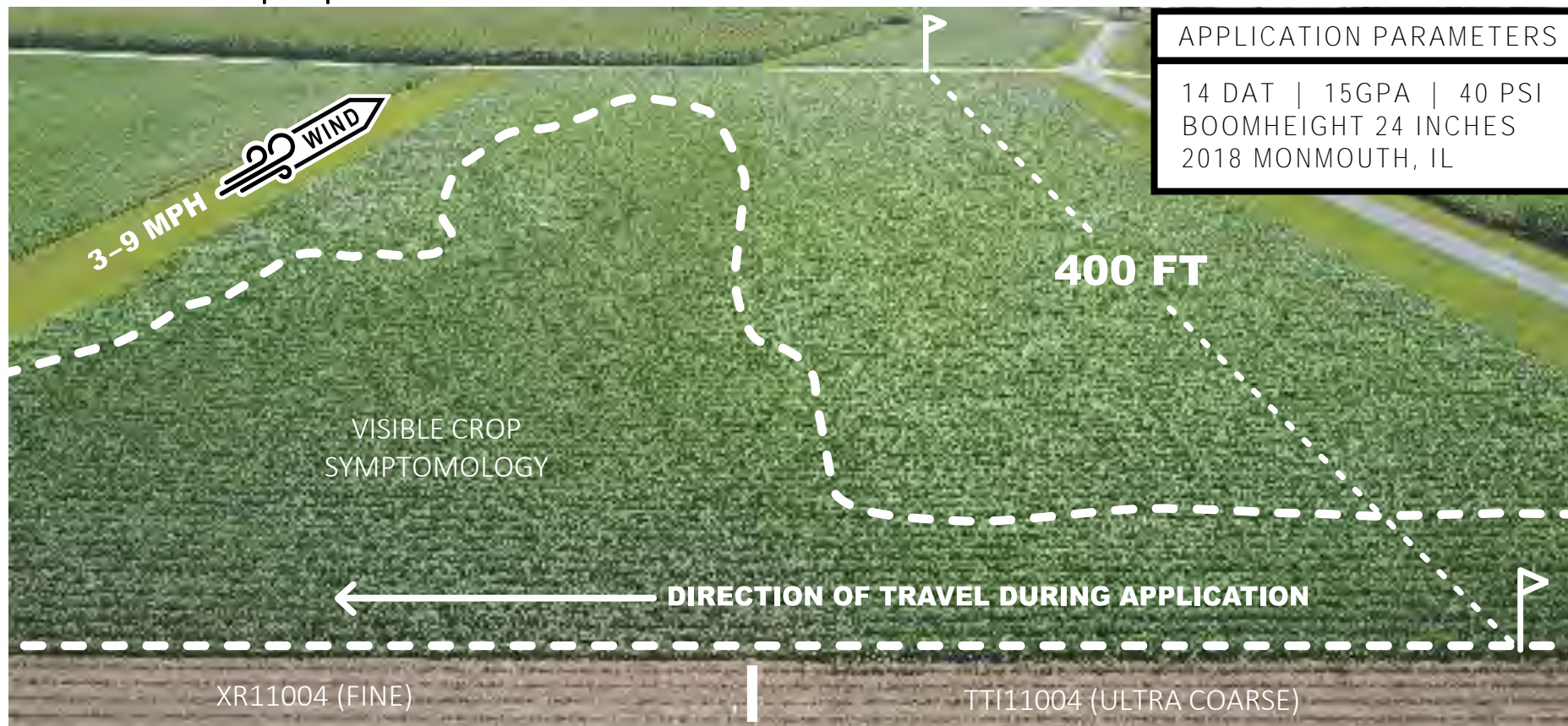
Adapted from: Ross and Lembi, 1985. *Ten foot boom height for illustrative purposes only.

©2019 Bayer Group Company Confidential

ROUNDUP READY®
X TEND
CROP SYSTEM

DEMONSTRATION ON IMPORTANCE OF PROPER NOZZLES

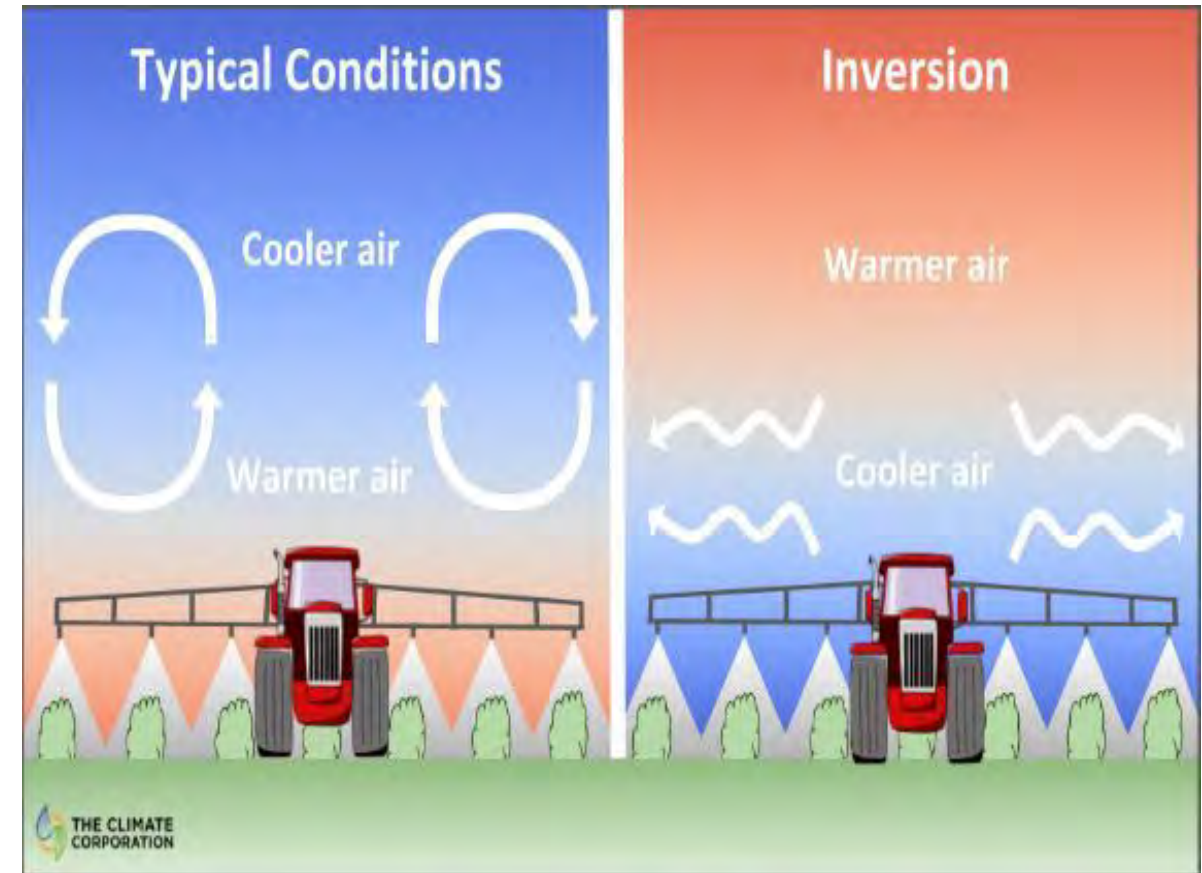
Nozzle Tip Impact on Drift



TEMPERATURE INVERSIONS

A LAYER OF COOL AIR TRAPPED BELOW A LAYER OF WARMER AIR

- During a temperature inversion, the atmosphere is very stable and vertical air mixing is restricted, which can cause small, suspended droplets to remain in a concentrated cloud
- The inversion will typically dissipate with increased winds (>4.8 km/h) or at sunrise when the surface air begins to warm (~1.6°C from morning low)
- Symptoms of an inversion can include:
 - 'Dead calm' wind conditions
 - Ground fog in low-lying areas
 - Dew or frost present



WHICH IMAGE DEMONSTRATES A TEMPERATURE INVERSION?



VERTICAL MIXING OF AIR

Smoke test demonstration in
6-13 km/h winds at 11:00 a.m.
(Nebraska)

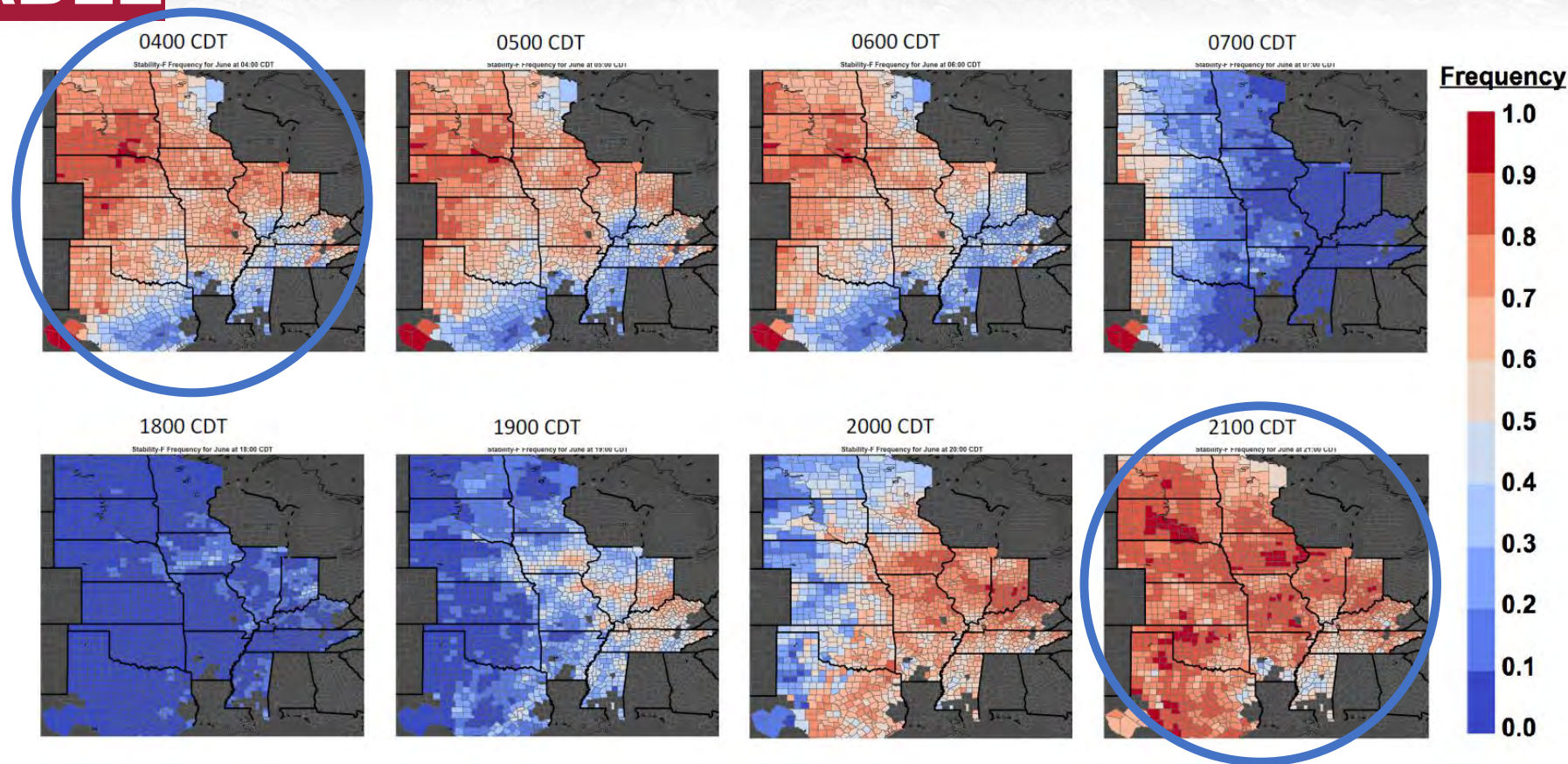


INVERSION LAYER NEAR SURFACE

Smoke test demonstration in
< 1.6 km/h winds at 7:15 a.m.
(Nebraska)

TEMPERATURE INVERSIONS – CONSISTENT & PREDICTABLE

Temperature
inversions are
common
especially
during night
time hours

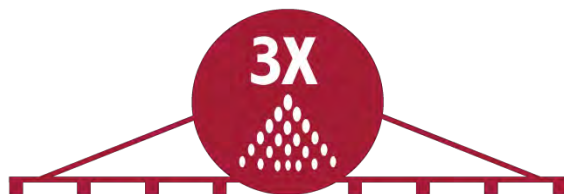


Stability Class-F Frequency for a given hour in June, 2017

SPRAYER SYSTEM CLEAN-OUT

Triple-Rinse Clean-Out is Required

- Properly and thoroughly clean spray equipment before & immediately after spraying dicamba per label instructions:
 - Use triple-rinse method to thoroughly clean entire sprayer system
 - Triple-rinse is the most effective practice to reduce off-target movement from spray contamination of any herbicide
 - Use a commercial based tank cleaner as part of the triple-rinse clean-out
- Sprayer parts can trap herbicide, and additives and surfactants can cling to surfaces
- Other contamination sources to be considered include nurse tanks, inductors, hoses, and connections at mixing sites



SINGLE RINSE WITH WATER OVER SENSITIVE SOYBEANS



Source: Bayer Canada Technology Development, Chatham, ON. 2014

©2019 Bayer Group Company Confidential

ROUNDUP READY®
XTEND
CROP SYSTEM

SECOND RINSE WITH WATER OVER SENSITIVE SOYBEANS (AFTER USING A COMMERCIAL CLEANER)



Source: Bayer Canada Technology Development, Chatham, ON. 2014
©2019 Bayer Group Company Confidential

ROUNDUP READY®
XTEND
CROP SYSTEM

THIRD RINSE WITH WATER OVER SENSITIVE SOYBEANS



Source: Bayer Canada Technology Development, Chatham, ON. 2014

©2019 Bayer Group Company Confidential

ROUNDUP READY®
XTEND
CROP SYSTEM

ADDITIVES AND TANK MIXTURES

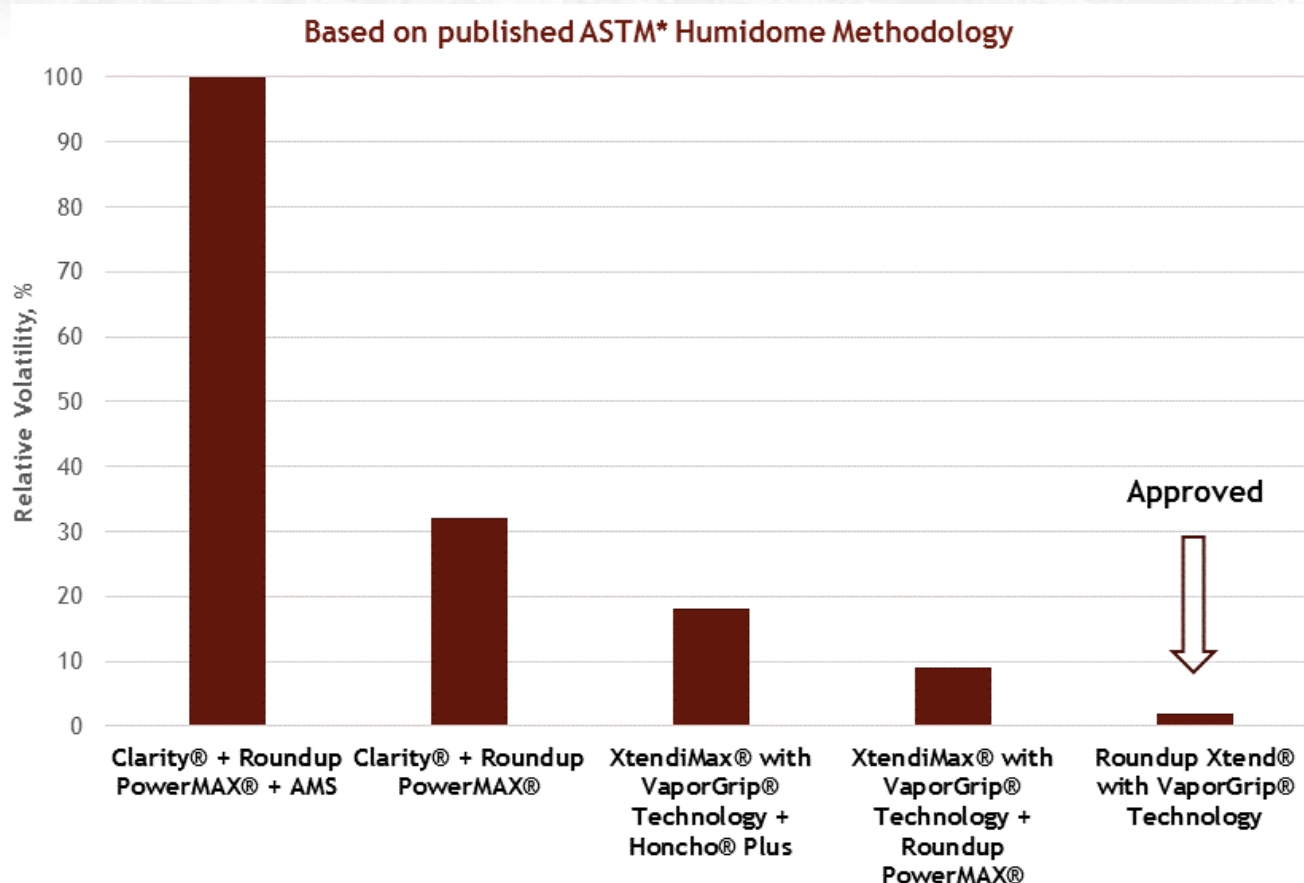
- **DO NOT USE** the following products with Roundup Xtend[®] herbicide with VaporGrip[®] Technology or XtendiMax[®] herbicide with VaporGrip[®] Technology:

- Ammonium Sulfate (AMS) and AMS-containing adjuvants
- Sprayable fluid fertilizers or fungicides
- ANY water conditioners or buffering agents that acidify the spray solution



The use of AMS or other additives that acidify a dicamba spray solution can increase the potential for volatility

IMPACT OF AMMONIUM SULFATE ON POTENTIAL VOLATILITY



- Older formulations of dicamba **are NOT approved** for in-crop use in the Roundup Ready® Xtend Crop System.
- IPA glyphosate salts and Ammonium Sulfate (AMS) **are NOT approved** tank mixes with XtendiMax® herbicide with VaporGrip® Technology
- Utilizing Roundup Ready® branded products ensures compatibility and lowest potential for off target movement

Honcho® Plus herbicide = IPA salt of glyphosate tested
Roundup PowerMAX® herbicide = K salt of glyphosate tested

Clarity® herbicide is a U.S. dicamba herbicide product. It is registered in Canada as Banvel® II.
Roundup PowerMAX is not approved for use in Canada. Monsanto Company St. Louis MO, 2017.

*ASTM is the American Society for Testing and Materials

©2019 Bayer Group Company Confidential

ROUNDUP READY®
X-TEND
CROP SYSTEM

OTHER ADDITIVES AND TANK MIXTURES

- **A drift reduction additive (DRA) can reduce driftable fines but is not required**
 - Not all DRAs are compatible with every nozzle and pesticide/adjuvant combination
 - DRAs can create a thicker spray solution making sprayer cleanout more difficult.
 - Increased water volume is recommended if using a DRA to maintain coverage; use at least 15 GPA.
 - Need to operate in mid to upper pressure range of nozzle to maintain pattern
 - A DRA is **NOT** a substitute for upgrading to the proper nozzle.
- **A quality non-ionic surfacant (NIS) of at least 70% active may be added at 0.25% v/v**
- **Bayer Canada always recommends the addition of Roundup WeatherMAX[®] herbicide or Roundup Transorb[®] HC herbicide when using XtendiMax[®] herbicide with VaporGrip[®] Technology to improve overall weed control.**

OTHER KEY CONSIDERATIONS

- **Confirm proper herbicide resistant trait technology is in the field (Roundup Ready 2 Xtend® Soybeans)**
- **Application awareness**
 - Survey the application site for neighboring sensitive crops (e.g. non-glyphosate and dicamba tolerant soybean, tomatoes, potatoes, grapes, peas, fruit trees, flowers and other broadleaf plants)
 - Talk and coordinate with neighbors where possible
- **Apply to small actively growing weeds (<10 cm or 4" tall)**
 - Early applications help protect yield potential
 - Smaller weeds are easier to control than big weeds
- **It is recommended that speed is reduced at field edges** if the applicator can maintain the required nozzle pressure and ensure proper boom height
- **It is recommended to keep detailed application records** including date & time of application, wind speed & direction, nozzle type, spray pressure & volume, sprayer speed, crop stage, etc.

THIS SLIDE FOR USE FOR CANADA ONLY

©2019 Bayer Group Company Confidential

KEY WEATHER CONDITIONS TO CONSIDER

- **DO NOT APPLY** when weather conditions may cause drift to sensitive crops (e.g. gusty wind toward adjacent sensitive areas or crops; ex non-Roundup Ready 2 Xtend® Soybeans)
 - Apply when wind is blowing away from sensitive areas or crops
- Avoid applications when the temperature is expected to exceed 30°C
- **DO NOT APPLY** during a Temperature Inversion as potential for Off Target Movement increases
 - Dead Calm conditions indicate a potential temperature inversion
 - Application during daylight hours is recommended

APPLICATION REQUIREMENTS



NOZZLES Use nozzles and operating pressures that produce Extremely Coarse (XC) to Ultra Coarse (UC) droplets to minimize drift	WEED HEIGHT Spray weeds less than 10 cm tall	LABEL BUFFER Maintain the required label buffer to protect sensitive areas	GROUND SPEEDS Make sure ground speed is less than 25 km/h	TRIPLE RINSE Use triple rinse tank clean-out procedure	BOOM HEIGHT Maintain boom height 50 cm above crop canopy to reduce the risk of drift	WIND SPEED Optimal wind speeds for application typically occur between 5 and 15 km/h	AMMONIUM SULFATE Ammonium sulfate and ammonium-based additives are restricted in applications	WATER VOLUME Minimum carrier volume is 10 GPA (15 GPA is recommended when using a DRA)

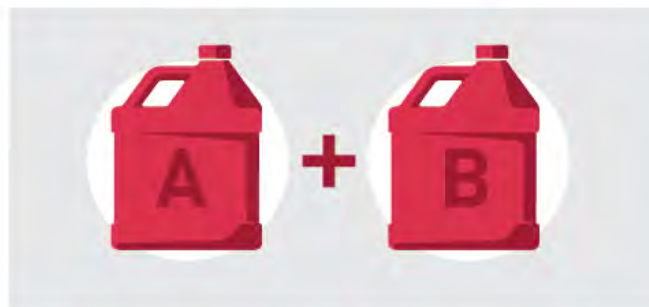
SUMMARY OF KEY LABEL APPLICATION REQUIREMENTS

- Use nozzle and spray pressure combinations that produce Extremely Coarse to Ultra Coarse Droplets and minimize driftable fines
- Spray early before weeds get large (<10cm)
- Keep boom height ≤ 50 cm from target crop or weed canopy
- Apply when wind speeds are between 5-15 km/h and when wind is blowing away from sensitive areas or crops
- Do not exceed a ground speed of 25 km/h
- Use a minimum of 100 L/ha (10 GPA) of spray solution per acre for optimal performance
 - It is recommended to increase application volume to 150 L/ha (15 GPA) when targeting large weeds or using a Drift Reduction Additive (DRA)
- Do not apply during a Temperature Inversion as potential for Off Target Movement increases
 - Application during daylight hours is recommended
- Do not mix with Ammonium Sulfate and other ammonium-based additives
- Use triple rinse clean-out procedure

THIS SLIDE FOR USE FOR CANADA ONLY

©2019 Bayer Group Company Confidential

KEY RECOMMENDATIONS FOR SUCCESS WITH THE ROUNDUP READY® XTEND CROP SYSTEM




- Apply the high label rate of XtendiMax® herbicide with VaporGrip® Technology along with Roundup WeatherMAX® herbicide or Roundup Xtend® herbicide with VaporGrip® Technology as part of the **first herbicide application** in the field
- Use Ultra Coarse (UC) spray quality and follow the application requirements: it is important to maintain proper operating pressure to maintain adequate pattern and droplet size
- Include an additional effective site of action when targeting glyphosate-resistant weeds for effective weed control and proper herbicide stewardship.

* For complete application requirements read and follow product labels

THANK YOU!

GenuityTraits.ca





Monsanto Company is a member of Excellence Through Stewardship® (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for these products. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate, and those containing dicamba will kill crops that are not tolerant to dicamba. Contact your local crop protection dealer or call the technical support line at 1-800-667-4944 for recommended Roundup Ready® Xtend Crop System weed control programs. Tank mixtures: The applicable labeling for each product must be in the possession of the user at the time of application. Follow applicable use instructions, including application rates, precautions and restrictions of each product used in the tank mixture. Bayer has not tested all tank mix product formulations for compatibility or performance other than specifically listed by brand name. Always predetermine the compatibility of tank mixtures by mixing small proportional quantities in advance. Bayer, Roundup Ready 2 Xtend®, Roundup Ready®, Roundup Transorb®, Roundup WeatherMAX®, Roundup Xtend®, Transorb®, VaporGrip® and XtendiMax® are registered trademarks of Bayer Group, Monsanto Canada ULC licensee. Conquer® is a registered trademark of Nufarm Agriculture Inc. Valtera™ is a trademark of Valent U.S.A. Corporation. All other trademarks are the property of their respective owners. ©2019 Bayer Group. All rights reserved.