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# Managing weeds with the Enlist system

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**MN SD ND**

# Enlist™ weed control system

The Enlist™ weed control system advances herbicide and trait technology.

Enlist traits and Enlist herbicides are sold and serviced by Corteva Agriscience.



# Advancing soybean trait technology

**Exceptional weed control.**

**Easy to use.**

**Excellent yield.**

- Enables use of 2,4-D choline found in Enlist One™ and Enlist Duo® herbicide with Colex-D® technology.
- Robust glufosinate tolerance for more weed control options.
- No cross-tolerance to dicamba.

Herbicide Tolerances
2,4-D choline
Glyphosate
Glufosinate



# Control of broadleaf weeds and grasses



**Convenient proprietary blend of 2,4-D choline and glyphosate**

- Multiple modes of action in a convenient blend
- Fit for acres where grass control is needed; works well for burndown
- Improved tank stability for a blend that stays mixed



**Straight-goods 2,4-D choline with additional tank-mix flexibility**

- 2,4-D choline as the basis for exceptional control
- Compatibility to tank-mix with qualified glufosinate, residual herbicides, insecticides and more
- Customize the ratio of herbicides to match each farm's needs

**Both with the on-target benefits of 2,4-D choline with Colex-D® technology**

# Best practices for coverage & control

APPLICATION RATE	
HERBICIDE	Glyphosate-resistant or hard-to-control weeds
Enlist Duo	4.75 pt./A
Enlist One	2.0 pt./A

- Apply full rates for best weed management of difficult-to-control weeds
- Use sufficient water carrier volume: 10-15 gal/A
- Spray when weeds are small: 6" tall or less
- Spray when weeds are actively growing

# Use a program approach with E3™ soybeans

START CLEAN  
WITH TILLAGE  
OR BURNDOWN

PLANT ENLIST  
E3™ SOYBEANS

APPLY SOIL  
RESIDUAL  
HERBICIDE

APPLY ENLIST HERBICIDES  
No later than R2 or full flowering stage

 **Enlist Duo**  
HERBICIDE with COLEX-D  
TECHNOLOGY

 **Enlist One**  
HERBICIDE with COLEX-D  
TECHNOLOGY

APPLY GLUFOSINATE HERBICIDES  
No later than R1 or beginning bloom



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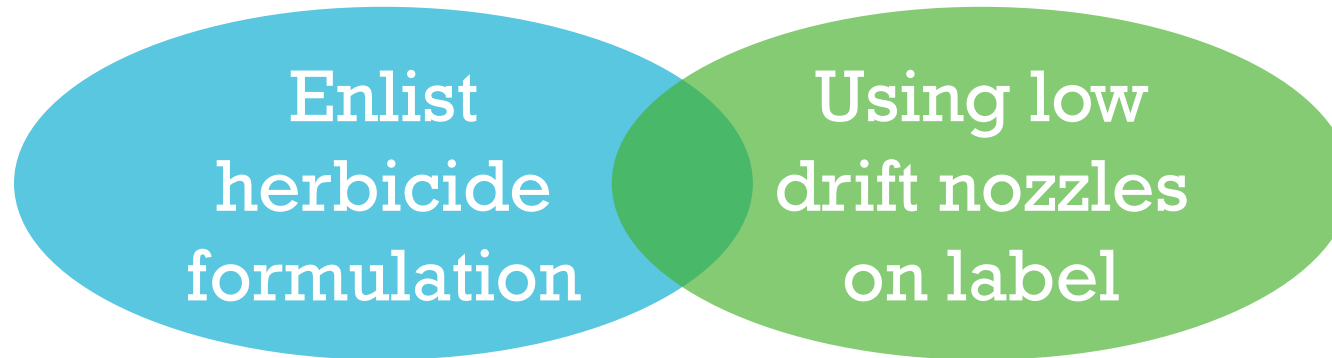
# What makes Enlist herbicides different?

CHAPTER 2

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# Addressing physical drift

Physical drift reduced by 90% vs. traditional 2,4-D



Enlist herbicide formulation with Colex-D technology + using correct nozzles are critical for drift reduction.



# Drift reduction



**Tank mix of glyphosate +  
traditional 2,4-D**



**Enlist Duo® herbicide with  
Colex-D® technology**

Used with labeled low-drift nozzles, Enlist herbicides with Colex-D® technology reduce the potential for physical drift by 90% compared with a tank mix of traditional 2,4-D and glyphosate.

- Reduces driftable fines without increasing relative droplet size
- Helps Enlist Duo and Enlist One land and stay on target

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# Field placement is key!



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# Application planning: Wind and environmental conditions



**Wind speed:** Apply when wind speed is between 3 and 10 mph. 15 mph maximum wind speed.

**Shifting winds:** Keep an eye on wind direction during an application – wind direction may shift while the application is being made. Take particular care near adjacent susceptible crops.

**Inversions:** Do not spray when a temperature inversion is present.

# Nozzles – Enlist One™ herbicide

47 nozzles and pressure combinations are labeled for use when applying Enlist One™ herbicide



LABELED NOZZLES WITH PRESSURE RANGES

MANUFACTURER	MODEL	10	20	30	40	50	60	70	80	90	100
ALBUZ	AV110025				MIN 40		MAX 60				
	AV1003				MIN 40				MAX 80		
	AV1004				MIN 40					MAX 90	
	AV11005				MIN 40					MAX 90	
	AV11006				MIN 40					MAX 90	
	GREENLEAF	TADF025-D				MIN 30					MAX 90
TADF03-D					MIN 30					MAX 90	
TADF04-D					MIN 30					MAX 90	
TADF05-D					MIN 30					MAX 90	
TADF06-D					MIN 30					MAX 90	
TDXL11003					MIN 30				MAX 80		
TDXL11004					MIN 30				MAX 80		
TDXL11006					MIN 30					MAX 90	
TDXL11008					MIN 30					MAX 90	
TDXL-D11002					MIN 30					MAX 90	
TDXL-D110025					MIN 30					MAX 90	
TDXL-D11003					MIN 30			MAX 70			
TDXL-D11004					MIN 30					MAX 90	
TDXL-D11006					MIN 30					MAX 90	
TDXL-D11008					MIN 30						MAX 100
TDXL-D025				MIN 30					MAX 80		
HYPRO JOHN DEERE	ULD12004		MIN 15							MAX 80	
	ULD12005		MIN 15							MAX 70	
	ULD12006		MIN 15							MAX 65	
LECHLER	ID11003				MIN 30		MAX 60				
	ID11004				MIN 30					MAX 80	
	ID11005				MIN 30		MAX 60				
TEEJET	A111002				MIN 30					MAX 80	
	A1110025				MIN 30					MAX 80	
	A111003				MIN 30					MAX 80	
	A111004				MIN 30					MAX 80	
	A111005				MIN 30					MAX 80	
	A111006				MIN 30					MAX 80	
	A111008				MIN 30					MAX 80	
	A1TTJ11004				MIN 20			MAX 50			
	A1TTJ11006				MIN 20				MAX 60		
	A1XR11004				MIN 15					MAX 60	
	A1XR11005				MIN 15					MAX 60	
	A1XR11006				MIN 15					MAX 60	
	TT111002				MIN 15					MAX 80	
	TT1110025				MIN 15					MAX 80	
	TT111003				MIN 15					MAX 80	
TT111004				MIN 15					MAX 80		
TT111005				MIN 15					MAX 80		
TT111006				MIN 15					MAX 80		
WILGER	MR11006				MIN 30		MAX 60				
	MR11008				MIN 30					MAX 70	
	MR110110				MIN 30					MAX 70	

# Sprayer cleanout – sanitizing all equipment

Ensure all equipment is thoroughly cleaned after application to avoid contamination. Sometimes it's the small parts that present the biggest risk of being overlooked.

- Pay close attention to hoses, screens, filters, pumps and dead ends on the boom.



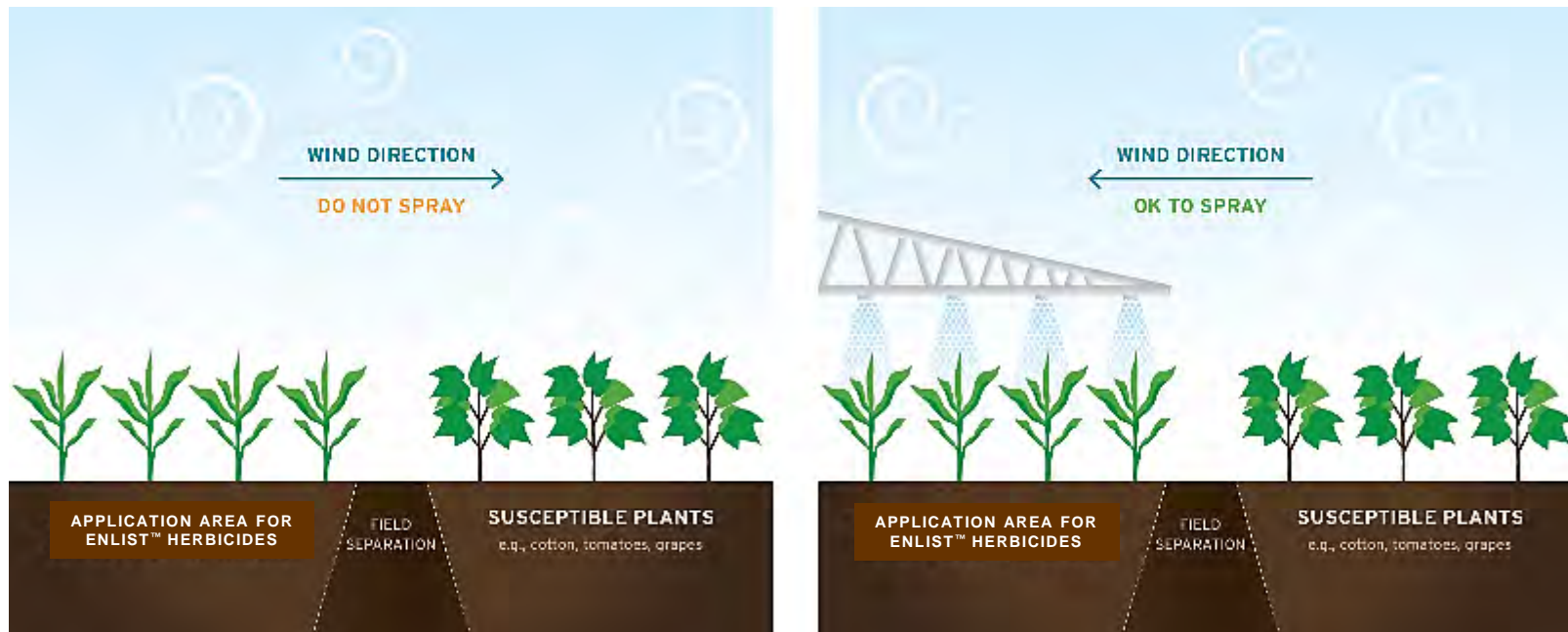
## TRIPLE-RINSE SPRAYER

As outlined in latest  
*Product Use Guide*

The triple-rinse procedure is detailed on the Enlist™ herbicide labels and the *Sprayer Cleanout Guide* on [Enlist.com](https://www.enlist.com) > Resources & Rewards.

# Avoid susceptible crop and buffer confusion!

**DO NOT SPRAY** when adjacent susceptible crops are downwind. 30 ft. buffers do not apply to downwind susceptible crops.



Susceptible crops examples

Cotton without Enlist trait

Grapes

Cucurbits

Fruiting Vegetables

Tomatoes

Tobacco

# Key differentiation: Know the non-susceptible crops

- Key crops that are not listed as susceptible on the Enlist™ labels:
  - Soybeans
  - Corn
  - Wheat
  - Alfalfa
  - Sorghum
  - Rice
  - Peanuts



# Sensitive areas

## Sensitive area examples

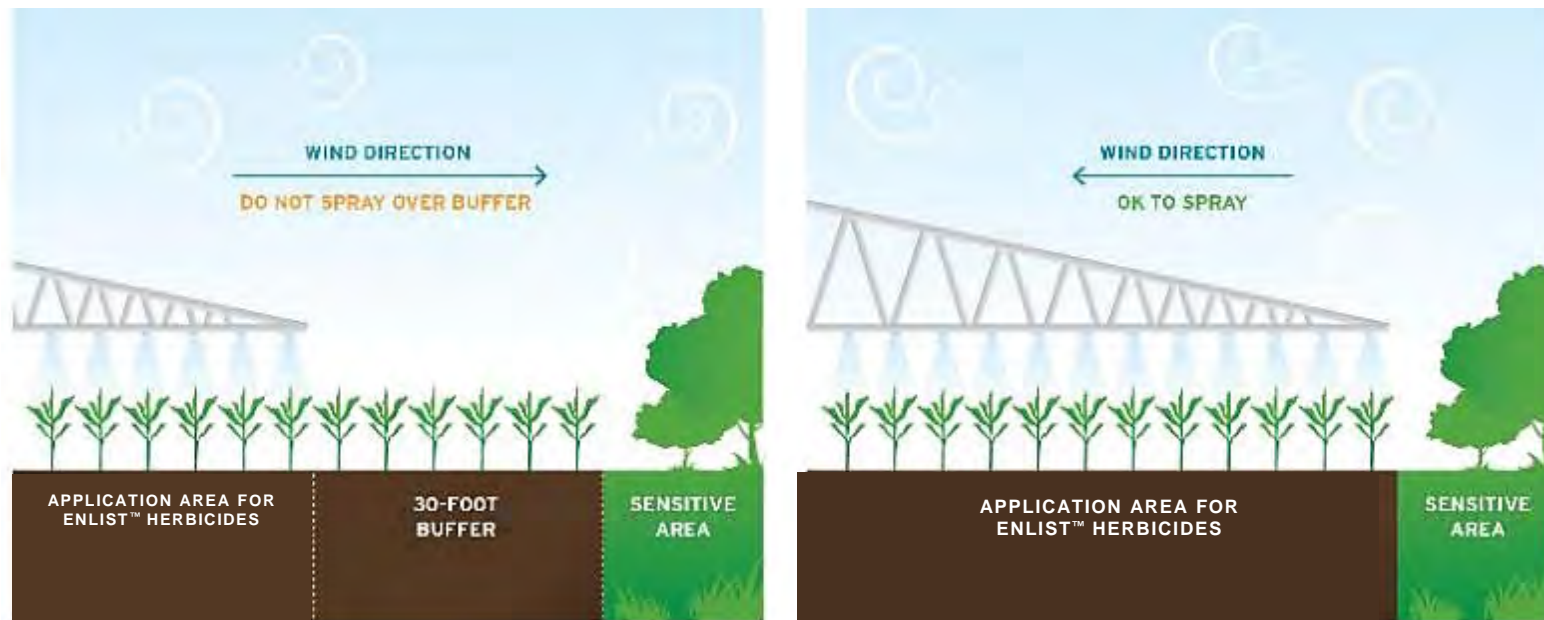
Wooded area

Pasture

Roadside ditch

Lawns

Tree plantation



As stated on the label: You must maintain a 30-foot downwind buffer (in the direction in which the wind is blowing) from any area except:

- Roads, paved or gravel surfaces
- Planted agricultural fields (except those crops listed in the Susceptible Plants section)
- Agricultural fields that have been prepared for planting
- Areas covered by the footprint of a building, shade house, silo, feed crib or other man-made structure with walls and or roof

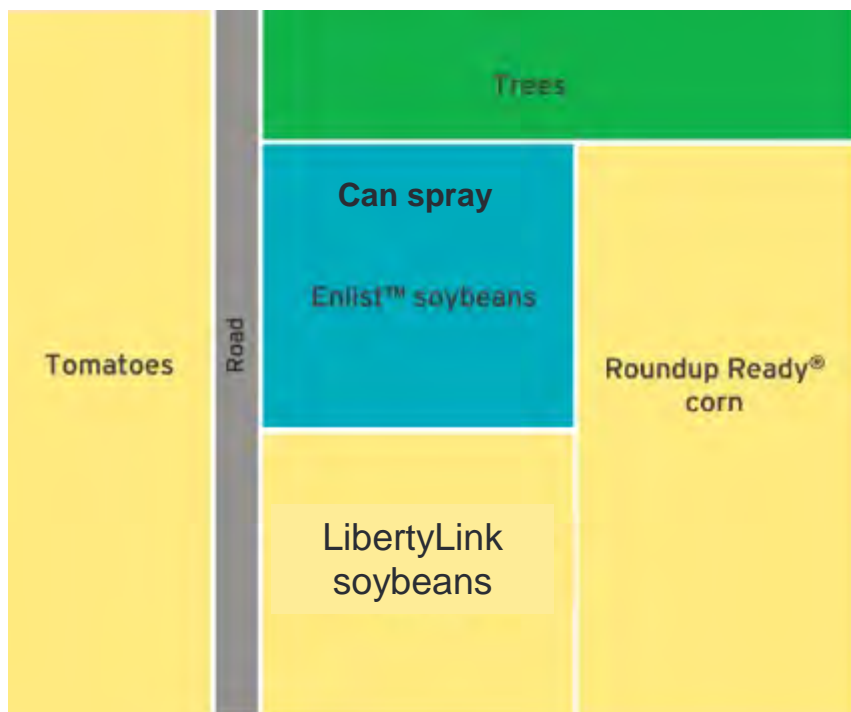
Label mandates a 30-foot **downwind** buffer to protect sensitive areas.



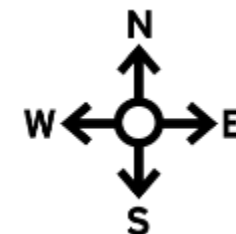
# Key differentiation

The wind is blowing from the north to the south at 5 mph.

## Enlist E3™ soybeans



## Roundup Ready 2 Xtend® soybeans



When the wind is blowing toward a neighboring soybean field at 5 mph, you **CANNOT** spray an in-crop dicamba product.

Soybeans are not listed as a susceptible crop on labels for Enlist™ herbicides, so you can spray.

However, use caution when wind is blowing parallel to tomatoes. Recommendation in this scenario is to wait until wind is blowing away from the susceptible crop.



# Tank-mix partners – EnlistTankMix.com

## Qualified tank-mix partners ARE:

- Products that passed the EPA-mandated drift testing protocol.

*One reason for the testing protocol for drift is protecting sensitive areas where endangered species may have habitat*

## Qualified tank-mix partners ARE NOT:

- Tested for crop response
- Tested for physical tank-mix compatibility
- An agronomic recommendation from Corteva Agriscience
- An endorsement of any kind from Corteva Agriscience
- An indicator of performance

Enlist Duo® and Enlist One™ herbicides may only be tank-mixed with products that have been tested and found not to adversely affect the spray drift properties of the Enlist™ herbicides. A list of those products may be found at [EnlistTankMix.com](https://enlisttankmix.com). Enlist One offers additional tank-mix flexibility with products such as glufosinate.

Products listed on [EnlistTankMix.com](https://enlisttankmix.com) have not been tested for crop response, e.g., leaf burn. The addition of tank-mix products may cause increased crop response. Applications of products containing crop oils or vegetable-based oils are more likely to result in a crop response. Listing does not imply endorsement of use.



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