Application Requirements and Stewardship – 2018

DuPont™ FeXapan™ herbicide plus VaporGrip® Technology is a restricted-use pesticide. DuPont™ FeXapan™ herbicide plus VaporGrip® Technology is not registered for sale or use in all states. Contact your DuPont retailer or representative for details and availability in your state.
Please Note

This Training Module is intended for sharing of information and management practices only, and is not intended to be all inclusive on its subject matter. Always read and follow all federal (EPA), state specific and product-website label directions before using a pesticide.

The content of this Training Module will not supersede any information on the pesticide label, nor any applicable federal, state, tribal, or local laws or regulations. The information presented here is intended to be accurate but may not always be up-to-date and may be changed by DuPont at any time. It is the responsibility of the user to comply with all labeling, laws and regulations when using a pesticide product. Examples and brand names given here are for illustrative purposes only and are not intended to be product-specific recommendations.
Approved Formulations of Dicamba Covered by this Training

The following formulations of dicamba are approved for use in the Roundup Ready® Xtend Crop System as of November, 2017 and are covered by this training:

- DuPont™ FeXapan™ herbicide Plus VaporGrip® Technology
- XtendiMax® herbicide with VaporGrip® Technology (Monsanto)
- Engenia® Herbicide (BASF)

The application requirements in this training module apply to all labeled uses of these products
- Some slides contain language from/specific to FeXapan™ or XtendiMax®; Engenia® label language may vary.
- Always read and follow the specific product label

*These products are Restricted Use Pesticides (RUP) for retail sale to and use by Certified Applicators and only for those uses covered by the Certified Applicators certification or supervision provision*
Objectives

• Review the evolution of dicamba herbicide formulations
• Affirm sound weed management practices
• Explain key stewardship practices for effective application and use of FeXapan™ and other approved dicamba products as set forth on the federal EPA label
• Present recordkeeping requirements

www.fexapanapplicationrequirements.dupont.com

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Dicamba Evolution

- Synthetic auxin (SOA Group 4) with rapid shoot and root absorption
  - ✓ Systemic activity within the plant
- Dicamba formulations are not all the same
- FeXapan™ and XtendiMax® herbicides are low-volatility dicamba formulation featuring VaporGrip® Technology; Engenia® reports low-volatility from the use of dicamba as a BAMPA salt

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No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
DuPont™ FeXapan™ herbicide Plus VaporGrip® Technology

- FeXapan™ herbicide is a **low-volatility dicamba** formulation featuring VaporGrip® Technology
- The VaporGrip® Technology keeps dicamba in a low-volatility anionic form; this prevents formation of dicamba acid, the most volatile form of dicamba
- For use with soybeans with Roundup Ready 2 Xtend® Technology and cotton with XtendFlex® Technology

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.

Monsanto provided data
Weed Management Practices

• Certain agronomic practices can delay or reduce the likelihood that resistant weed populations will develop and can be used to manage weed resistance once it occurs.

• DO NOT use less than the labeled rate of the product in a single application. Using the correct rate can minimize the selection for resistant weeds.

• Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a recognized practice.

• A diversified weed management program may include the use of multiple herbicides from different Groups (Site of Action) and overlapping weed spectrum with or without tillage operations and/or other cultural practices.
  ▪ Research has demonstrated that using the labeled rate and following directions for use, are important to delay the selection for resistance weeds.
Weed Management Practices

Weed Resistance Management Program includes:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using a burndown herbicide application or tillage.
- Use a broad spectrum soil-applied herbicide with other SOA as a foundation.
- Control weeds early when they are relatively small (less than 4 inches in height).
- Apply full rate of an approved dicamba for the most difficult to control weed in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
Weed Control in Roundup Ready 2 Xtend® Soybeans

1) Soybeans with the Roundup Ready 2 Xtend® technology are tolerant to dicamba and glyphosate

2) Foundation **pre-emerge herbicide** is key to weed management

3) An approved dicamba (Group 4), when used correctly, is an **effective broadleaf** weed herbicide

4) Preventing off-target movement is the **responsibility** of the applicator

5) As with all herbicides, application management, especially weed height at time of application, will be critical to the **success** of the system!

Roundup Ready® Xtend Crop System *has no cross-tolerance to 2,4-D or other Group 4 (auxin) herbicides.*
Stewardship is…

Definition: … the careful and responsible management of something entrusted to one's care.

Dicamba formulations approved for use in the Roundup Ready® Xtend Crop System:
1) There is NO improvising with application requirements
2) It is NOT a post-emergent only tool
3) It is NOT a rescue tool
4) Non-dicamba tolerant soybeans and cotton ARE susceptible
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

From FeXapan™ label:

READ THE ENTIRE LABEL FOR DUPONT™ FEXAPAN™ PLUS VAPORGRIP® TECHNOLOGY BEFORE USING PRODUCT.

When using DuPont™ FeXapan™ herbicide Plus VaporGrip® Technology as permitted according to this label, read and follow all applicable directions, restrictions, and precautions on the container label and booklet provided with the product container and on this labeling. The revised 2018 federal label must be in the possession of the user at the time of pesticide application.

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

From FeXapan™ label:

“FeXapan™ is a RESTRICTED USE PESTICIDE. For retail sale to and use only by Certified Applicators¹ or persons under their direct supervision², and only for those uses covered by the Certified Applicator’s certification.”

- This restricted use pesticide designation is for all crops and other label uses.
- Use restrictions such as nozzles, tank mixes, wind speed and direction, time of day, buffers, and all other restrictions are applicable to all crops and uses on the label, not just crops with Xtend® Technology.

¹ All applicators must receive dicamba or auxin-specific training
² Some states will restrict applications to the Certified Applicator only

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

New label for 2018 use season - supersedes any previously issued labels

- “Label is the Law”
- Required According to FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)
- Focus on worker protection, proper product use
- Users MUST read and understand the ENTIRE label before using product
- Labels are approved by EPA
- First Aid, Worker Protection Requirements & Personal Protective Equipment
- Required Directions for Use, including Restrictions and Precautions
- Maximizes your investment by avoiding over- and under-application
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

*What has changed from previous labels:*

- No longer a supplemental EPA label for Xtend® crops
- Low-volatile dicamba herbicides labeled for Xtend® crops are now restricted use pesticides, which will limit their availability to certified retailers and use to certified applicators and those under the direct supervision of certified applicators, as well as require more comprehensive record keeping
- Registrants and state pesticide regulatory programs will offer required dicamba training; applicators must complete this training before they can use the approved (RUP) dicamba herbicides

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

What has changed from previous labels:

• Applications are limited to sunrise to sunset, effectively banning nighttime spraying, when temperature inversions are most likely to occur.

• Applications are also limited to wind speeds of 3 to 10 mph.

• Applicators must keep records showing they have surveyed the surrounding area for susceptible crops and consulted applicable sensitive crop registries.

• The new label includes graphics to help explain the herbicide buffer requirements and clarification of what counts as a susceptible crop or sensitive area.

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

Highlighted Label Restrictions

• DO NOT APPLY THIS PRODUCT AERIALLY

• DO NOT TANK MIX WITH PRODUCTS CONTAINING AMMONIUM SALTS SUCH AS AMMONIUM SULFATE (AMS) AND UREAAMMONIUM NITRATE
  • Small quantities of AMS can greatly increase the volatility potential of dicamba.
  • Includes additives, conditioners, fertilizers, etc.
  • Use only approved tank mix partners confirmed on each product website

• DO NOT APPLY THROUGH ANY TYPE OF IRRIGATION EQUIPMENT. DO NOT TREAT IRRIGATION DITCHES OR WATER USED FOR CROP IRRIGATION OR DOMESTIC PURPOSES

• DO NOT MAKE APPLICATION OF THESE PRODUCTS IF RAIN IS EXPECTED IN THE NEXT 24 HOURS (For prevention for potential water runoff when excessive rain may occur)

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Website Information

The website is part of the label:

• Direct growers for FeXapan™ label information to our website @ www.fexapanapplicationrequirements.dupont.com

• Direct growers for XtendiMax® with VaporGrip® Technology (Monsanto) to their website @ xtendimaxapplicationrequirements.com

• Direct growers for Engenia® Herbicide (BASF) to their website
  > Stewardship @ http://agproducts.basf.us/campaigns/engenia/#stewardship
  > Tank Mix @ www.engeniatankmix.com

• Direct growers to their respective state Pesticide Regulatory office for compliance regarding dicamba or auxin required training

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

Record Keeping

- **Required** for each and all applications
  - Must retain required documentation for two years
  - Records must be generated within 14 days after application
  - If 10 fields are sprayed, 10 sets of records are required – same field sprayed twice = two records
  - Records must be made available to State Pesticide/Regulatory officials, USDA and EPA upon request
- Applicator information
  - Name of Certified Applicator
    - Name of applicator under supervision (if allowed by State)
  - Certification number of applicator (State assigned)
  - Training records – Provider, date and proof of completion

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

Record Keeping (continued)

- **Required** for all applications. *Must retain for two years*
- Must include:
  - Product info, including label
  - Date, start and finish times, location, crop, size of area treated, amount applied
  - Product purchase receipts
  - Record of buffer implementation
  - Record of susceptible crops registry consultation and/or survey of neighboring fields

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

Record Keeping (continued)

- **Required** for all applications. *Must retain for two years*
- Must include:
  - Application timing (i.e., pre or postemergence)
  - Air temperature at start and end of application
  - Wind speed and direction at start and end of application. Record direction **wind** is coming FROM
  - Nozzle and pressure, including manufacturer, orifice size
  - All tank mix products, including brand, and EPA registration number(s) of any tank mixed pesticides
  - Document spray system cleanout

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
State Specific– Regulatory Compliance Information

[Insert here any restrictions on application for a given state]

[Insert here information required by a given state for regulatory compliance]

[If none noted in the state where training is being conducted, beyond the Federal Section 3 label; hide slide]

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Understanding Off-Target Herbicide Movement

1. Particle drift

   > Temperature Inversions

2. Volatility

3. Sprayer contamination
Particle Drift

- Largest contributor to off-target movement
- Risk influenced by
  - Droplet size
  - Boom height
  - Sprayer speed
  - Wind speed
  - Temperature inversion
  - Tank-mix components
Temperature Inversion

- Volatility allows post-application movement of gas vapor from a treated area
- During temperature inversion, suspended spray particles move in a cloud and settle off target
## Volatility

- Only these specific formulations of dicamba can be used on crops with Xtend® Technology
- Clarity, Banvel, Status, others are not to be used on Xtend® crops

<table>
<thead>
<tr>
<th>Relative Volatility</th>
<th>Example Formulations/Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Low</td>
<td>DuPont™ FeXapan™ herbicide Plus VaporGrip® Technology</td>
</tr>
<tr>
<td></td>
<td>XtendiMax™ herbicide with VaporGrip® Technology (Monsanto)</td>
</tr>
<tr>
<td></td>
<td>Engenia® Herbicide (BASF)</td>
</tr>
<tr>
<td>Low</td>
<td>DGA – diglycolamine salt</td>
</tr>
<tr>
<td></td>
<td>• Clarity®</td>
</tr>
<tr>
<td>High</td>
<td>DMA – dimethylamine salt</td>
</tr>
<tr>
<td></td>
<td>• Banvel®</td>
</tr>
</tbody>
</table>

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Sprayer Contamination

Typical spray boom contamination, V-shaped field pattern

Clean tank, taller beans

Contaminated tank, stunted beans

Typical spray tank contamination: notice bean height difference when tank is contaminated with dicamba
Tank-Mix Guidelines

- Do not use ammonium salt products such as ammonium sulfate (AMS) or urea ammonium nitrate (UAN)
- Apply in a minimum of **15** gallons of spray solution per acre
- EPA must qualify tank-mix products before in-crop applications on dicamba-tolerant crops
- Find approved tank-mix partners at
  - www.fexapanapplicationrequirements.dupont.com
  - xtendimaxapplicationrequirements.com
  - www.engeniatankmix.com

- Direct growers to review the respective product “label” website no more than 7 days before applying these products to ensure label approval

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Nozzles and Operating Pressure

- Use Tee Jet TTI11004 nozzles (maximum nozzle operating pressure of 63 psi) or other approved nozzles for
  - larger droplet sizes,
  - more uniform spray coverage and
  - reduced drift
- Find approved nozzles and operating pressures at
  - [www.fexapanapplicationrequirements.dupont.com](http://www.fexapanapplicationrequirements.dupont.com)
  - [xtendimaxapplicationrequirements.com](http://xtendimaxapplicationrequirements.com)
  - [www.engeniatankmix.com](http://www.engeniatankmix.com)
- Direct growers to review the respective product “label” website no more than 7 days before applying these products to ensure label approval

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Boom Height

Do not exceed nozzle tip height of 24 inches **above** crop canopy or target pest for maximum spray coverage and reduced off-target drift potential.

24 inches maximum between nozzles and canopy.
Application Timing

• Apply herbicides to weeds no more than 4 inches in height to improve spray coverage and control
• Allow a minimum of 7 days between post emergent, in-crop applications of these approved dicamba products
• In Roundup Ready 2 Xtend® soybeans, apply herbicide no later than growth stage R1, regardless of weed height
Application Timing

Formulations of DICAMBA approved for use in the Roundup Ready® Xtend Crop System

Preferred application window of FeXapan™ plus VaporGrip® Technology on Roundup Ready 2 Xtend® soybeans

Soybean R1 growth stage = open flower at any node on the main stem; a.k.a. beginning bloom

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.

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Application Timing

- Only apply from sunrise to sunset
- State specific restrictions may be in place restricting application time during the day, and by calendar date
- Do not apply these products during a temperature inversion
  - Most likely conditions for an inversion are early morning and later afternoon
- Apply when wind speeds at boom height are between 3 and 10 mph
- Do not apply this product aerially

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
# Wind Speed Requirements

<table>
<thead>
<tr>
<th>Wind Speed</th>
<th>Application Guidelines</th>
</tr>
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<tbody>
<tr>
<td>&lt; 3 mph</td>
<td>Do not apply approved dicamba</td>
</tr>
<tr>
<td>3-10 mph</td>
<td>Only apply when wind is in this range</td>
</tr>
<tr>
<td>&gt; 10 mph</td>
<td>Do not apply approved dicamba</td>
</tr>
</tbody>
</table>

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
Equipment Ground Speeds

- Apply these dicamba products at ground speeds of 15 mph or less**
- Select a ground speed that will deliver the desired spray volume while maintaining the desired spray pressure.
- Slower speeds generally result in better spray coverage and deposition on the target area.
- Provided the applicator can maintain the required nozzle pressure, it is recommended that sprayer speed be reduced to 5 miles per hour at field edges.

** Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

Do not apply by air
Susceptible Crops

- Be aware of susceptible crops and areas; identify commercial specialty or certified organic crops near application site
  - Do not apply these products when the wind is blowing toward adjacent commercially grown dicamba-susceptible crops, including NON-dicamba tolerant soybeans and cotton
- Consult the label for other required and precautionary off-target movement mitigation measures

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

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Buffer Requirements

• Always maintain a 110-foot downwind buffer when applying 22 fl. oz./A of these dicamba products
• Always maintain a 220-foot downwind buffer when applying 22+ fl. oz./A to 44 fl. oz./A of FeXapan™/XtendiMax®
• No application of these products can be made in the buffer area
• Downwind buffer may include: fallow ground, roadway, area covered by the footprint of a building or planted agricultural fields with listed non-susceptible crops (such as corn, small grains, etc.)

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.
FeXapan™ Application Buffer Requirements

22 fl. oz./A FeXapan™

Dicamba Tolerant Crop

110 ft.

Downwind Buffer

Protection of Sensitive Areas
Includes ALL AREAS EXCEPT those listed in buffer distance calculation when directly adjacent to the treated field edges.

Wind Direction

22+ fl. oz./A to 44 fl. oz./A FeXapan™

Dicamba Tolerant Crop

220 ft.

Downwind Buffer

Protection of Sensitive Areas
Includes ALL AREAS EXCEPT those listed in buffer distance calculation when directly adjacent to the treated field edges.

Wind Direction

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Proper Spray System Equipment Cleanout

Prior to applying an approved dicamba for a labeled use:

• You must ensure that the entire spray system used to apply this product is clean before using this product (other dicamba products)
• Failure to properly clean the entire spray system can result in inadvertent contamination of the spray system
• Small quantities of dicamba may cause injury to non-dicamba tolerant soybeans or cotton and other susceptible crops

Clean equipment immediately after using this product, using a triple rinse procedure described in detail, here and on the label.
Sprayer Cleanout: Triple-Rinse Procedure

1. Immediately after spraying, drain the sprayer (including boom and lines). Do not allow the spray solution to remain in the spray boom lines overnight prior to flushing.
2. Flush tank, hoses, boom and nozzles with clean water. If equipped, open boom ends and flush.
3. Inspect and clean all strainers, screens and filters.
4. Prepare a cleaning solution with a commercial detergent or sprayer cleaner or ammonia according to the manufacturer’s directions.
5. Take care to wash all parts of the tank, including the inside top surface. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
6. Flush hoses, spray lines and nozzles for at least 1 minute with the cleaning solution.

7. Remove nozzles, screens and strainers and clean separately in the cleaning solution after completing the above procedures.

8. Drain sump, filter and lines.

9. Rinse the complete spraying system with clean water.

10. Clean and wash off the outside of the entire sprayer and boom.

11. All rinse water must be disposed of in compliance with local, state, and federal guidelines.
Summary

Follow these Stewardship practices to:

• Ensure safe, effective weed control
• Help prevent weeds from developing resistance to dicamba herbicides
• Extend effective use of dicamba-based weed control
• Reduce potential for off-target movement

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Test Your Knowledge

You plan to apply 0.5 lb. a.e./acre of an approved dicamba product, DuPont™ FeXapan™ herbicide Plus VaporGrip® Technology, XtendiMax® herbicide with VaporGrip® Technology or Engenia® Herbicide. What buffer area is required when the wind is blowing downwind toward a sensitive area from the application site?

a. 90 feet
b. 110 feet
c. 220 feet
d. At least one boom width

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Test Your Knowledge

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a. 90 feet

✔️  
b. 110 feet

c. 220 feet

d. At least one boom width
Test Your Knowledge

What is the **maximum** boom height when applying FeXapan™, XtendiMax® or Engenia® herbicide?

a. Nozzle tips 24 inches above crop canopy or target pest

b. Nozzle tips 30 inches above crop canopy or target pest

c. Nozzle tips 14 inches above soil surface

d. Depends on wind speed
Test Your Knowledge

What is the maximum boom height when applying FeXapan™, XtendiMax® or Engenia® herbicide?

a. Nozzle tips 24 inches above crop canopy or target pest

b. Nozzle tips 30 inches above crop canopy or target pest

c. Nozzle tips 14 inches above soil surface

d. Depends on wind speed
Test Your Knowledge

What is the **optimal** crop stage for applying FeXapan™, XtendiMax® or Engenia® herbicide to Roundup Ready 2 Xtend® soybeans?

a. Up to R1

b. Before flowering

c. Preplant/preemergence to V2

d. Before pod set
Test Your Knowledge

What is the optimal crop stage for applying FeXapan™, XtendiMax® or Engenia® herbicide to Roundup Ready 2 Xtend® soybeans?

a. Up to R1

b. Before flowering

✓ c. Preplant/preemergence to V2

d. Before pod set

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Test Your Knowledge

Which practice **does not** help prevent development of herbicide resistance?

a. Following herbicide label instructions

b. Applying full herbicide rates

c. Using only dicamba herbicides to control weeds

d. Applying herbicides before weeds are 4 inches in height
Test Your Knowledge

Which practice **does not** help prevent development of herbicide resistance?

a. Following herbicide label instructions

b. Applying full herbicide rates

c. Using only dicamba herbicides to control weeds

d. Applying herbicides before weeds are 4 inches in height
Test Your Knowledge

Do **all** applications of FeXapan™, XtendiMax® or Engenia® herbicide require record keeping?

a. NO

b. Yes but, only if POST

c. Yes but, only if there are downwind sensitive areas

d. Yes, and there may be additional requirements dependent on state
Test Your Knowledge

Do **all** applications of FeXapan™, XtendiMax® or Engenia® herbicide require record keeping?

a. NO

b. Yes but, only if POST

c. Yes but, only if there are downwind sensitive areas

✔️ d. Yes, and there may be additional requirements dependent on state
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicide, when during the daytime can I apply per the label?

a. Anytime if I use a DRA

b. Anytime if I use an approved nozzle and operating pressure

c. Dusk to Dawn

d. Sunrise to Sunset *

* Check with your respective state for additional time-of-day or calendar date restrictions.
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicide, when during the daytime can I apply per the label?

a. Anytime if I use a DRA

b. Anytime if I use an approved nozzle and operating pressure

c. Dusk to Dawn

d. Sunrise to Sunset *

* Check with your respective state for additional time-of-day or calendar date restrictions.
Test Your Knowledge

After applying FeXapan™, XtendiMax® or Engenia® herbicide, proper sprayer cleanout procedures include:

a. Triple-rinsing tanks and lines with a commercial cleaner

b. Rinsing hoses, spray lines and nozzles for at least 1 minute per rinse

c. Rinsing the complete spraying system with clean water

d. All of the above
Test Your Knowledge

After applying FeXapan™, XtendiMax® or Engenia® herbicide, proper sprayer cleanout procedures include:

a. Triple-rinsing tanks and lines with a commercial cleaner

b. Rinsing hoses, spray lines and nozzles for at least 1 minute per rinse

c. Rinsing the complete spraying system with clean water

d. All of the above
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicides, which of the following are considered the “label” for all uses in 2018?

a. Federal label(s)
b. State registrations
c. [links]
d. All the above
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicides, which of the following are considered the “label” for all uses in 2018?

a. Federal label(s)
b. State registrations
c. [Links to websites]
d. All the above

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicide, what are the wind speed **application** restrictions?

a. Anytime if I use a DRA

b. Measured at the height of the boom – 3 to 10 mph

c. Per the closest weather station – 3 to 10 mph

d. From sunset to sunrise, 0 – 3 mph
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicide, what are the wind speed **application** restrictions?

a. Anytime if I use a DRA

✅ b. Measured at the height of the boom – 3 to 10 mph

c. Per the closest weather station – 3 to 10 mph

d. From sunset to sunrise, 0 – 3 mph
Test Your Knowledge

For FeXapan™, XtendiMax® or Engenia® herbicide applications, does the **applicator** need to know and record what his neighbor has planted or is planning to plant?

a. Yes, but only if a DRA is **not** used

b. Yes, but only if there is a sensitive area

c. Yes, always

d. Yes, but only if there is a susceptible crop

e. Yes, but only if spraying when wind speeds are greater than 10 mph

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a. Yes, but only if a DRA is **not** used

b. Yes, but only if there is a sensitive area

✔️

c. Yes, always

d. Yes, but only if there is a susceptible crop

e. Yes, but only if spraying when wind speeds are greater than 10 mph

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Test Your Knowledge

When are temperature inversions more likely to occur?

a. When there is a wind out of the East or North

b. From Sunset to Sunrise

c. When the windspeed is less than 3 mph

d. Both b. and c.

e. When a DRA is not used.
Test Your Knowledge

When are temperature inversions more likely to occur?

a. When there is a wind out of the East or North
b. From Sunset to Sunrise
c. When the windspeed is less than 3 mph
d. Both b. and c.
e. When a DRA is not used.
Test Your Knowledge

FeXapan™, XtendiMax® and Engenia® herbicides are Restricted Use Pesticides (RUP). What does that entail for the grower?

a. Availability from only licensed retailers

b. Application only by certified applicators

c. Comprehensive record keeping per the EPA

d. All the above

1 Check your respective state registration for certified applicator requirements
Test Your Knowledge

FeXapan™, XtendiMax® and Engenia® herbicides are Restricted Use Pesticides (RUP). What does that entail for the grower?

a. Availability from only licensed retailers

b. Application only by certified applicators

c. Comprehensive record keeping per the EPA

✓ d. All the above

¹ Check your respective state registration for certified applicator requirements
Test Your Knowledge

Which of the following are **required** when applying FeXapan™, XtendiMax® or Engenia® herbicides?

a. Approved dicamba or auxin-specific training regarding application requirements found on the respective product federal label

b. Records of data on conditions at application time be kept for two years

c. Records of data on products used, including purchase receipts, be kept for two years

d. All of the above

1,2 Check your respective state registration for additional applicator (1) and record keeping (2) requirements.
Test Your Knowledge

Which of the following are required when applying FeXapan™, XtendiMax® or Engenia® herbicides?

a. Approved dicamba or auxin-specific training regarding application requirements found on the respective product federal label \(^1\)

b. Records of data on conditions at application time be kept for two years \(^2\)

c. Records of data on products used, including purchase receipts, be kept for two years \(^2\)

\(\checkmark\) d. All of the above \(^1,2\)

\(^1,2\) Check your respective state registration for additional applicator \(^1\) and record keeping \(^2\) requirements.

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
Recap of Label Requirements

The FeXapan™ label language for all uses includes requirements of:

- Only use approved nozzles and spray pressures as designated on the website below.
- Use only approved tank-mixes products as listed on the website below
- Implement spray buffer zones per labeling requirements
- Know what susceptible crops are adjacent to field of application
- Follow all drift/volatility prevention requirements
- Always follow all spray equipment cleanout procedures
- Follow all EPA and state requirements for use of this product
- Consult www.fexapanapplicationrequirements.dupont.com for updated information
- Always read and follow the label

No offer for sale or use of this product on any crop or other use is permitted prior to the issuance of the required state registrations.
More Information

Contact your local Dow or DuPont representative or authorized retailer with questions about these stewardship requirements and the best use of DuPont™ FeXapan™ herbicide Plus VaporGrip® Technology.

www.fexapanapplicationrequirements.dupont.com
FeXapan™ is a RESTRICTED USE PESTICIDE. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator’s certification.

DuPont™ FeXapan™ Plus VaporGrip® Technology may not be registered for sale or use in all states. Contact your DuPont retailer or representative for details and availability in your state.

IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend® technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® technology and follow all pesticide product labeling.

Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba.

Always read and follow all label directions and precautions for use when using any pesticide alone or in tank-mix combinations.

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Banvel® (Syngenta); Clarity®, Engenia®, Status® (BASF), LibertyLink® (Bayer).

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