



Office of
INDIANA STATE CHEMIST AND SEED COMMISSIONER

Protecting Indiana's Agriculture and Environment - Feed, Fertilizer, Pesticide and Seed

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Dicamba Use on Soybeans in Indiana

New Labels, New Requirements, & New Uses of Dicamba on Soybeans:

Currently there are three dicamba soybean products that have been accepted by U.S. EPA and are registered for use in Indiana in 2017, Monsanto's **XtendiMax with VaporGrip Technology** (EPA Reg. No. 524-617), BASF's **Engenia Herbicide** (EPA Reg. No. 7969-345), and DuPont's **FeXapan Herbicide Plus VaporGrip Technology** (EPA Reg. No. 352-913).

The labels for these products have use directions and restrictions, many of which may be new to pesticide applicators. The below-listed requirements and restrictions apply to each of these products, unless specifically marked with the product name.

1. Do not apply this product aerially.
2. Do not apply if rain is expected within 24 hours after application. (*Xtendimax/FeXapan*)
3. Do not apply if rain is expected within 4 hours after application. (*Engenia*)
4. Do not harvest or feed soybean forage within 7 days after final application.
5. Do not harvest or feed soybean hay within 14 days after final application.
6. Do not tank mix with anything other than water except as permitted on www.xtendimaxapplicationrequirements.com (*Xtendimax*) or www.engeniatankmix.com (*Engenia*) or www.fexapanapplicationrequirements.dupont.com (*FeXapan*).
7. Must check web site for acceptable tank mix directions within 7 days prior to application.
8. Do not tank mix if tank mix partner product labels prohibit it.
9. Do not tank mix with products such as ammonium sulfate or urea ammonium nitrate.
10. Do not add adjuvants that will further decrease pH or acidify the spray. (*Engenia*)
11. Must check web site for acceptable tank mix directions of drift reduction agents (DRA).
12. Must check with DRA manufacturer to determine if DRA will work with required nozzle, spray pressure, and spray solution.
13. Do not mist, drip, drift, or splash onto desirable non dicamba tolerant vegetation.
14. Must use only Tee Jet TTI110004 nozzles at max. pressure of 63 psi or nozzles/pressures on web site.
15. Do not exceed 15 mph application ground speed.
16. Do not exceed boom height of 24 inches above target weed or crop canopy.
17. Do not apply during temperature inversion.
18. Do not apply at wind speeds greater than 15 mph.
19. Do not apply at wind speeds less than 3 mph. (*Xtendimax/FeXapan*)

20. Do not apply at wind speeds less than 3 mph unless confirmed that no temperature inversion exists. (*Engenia*)
21. Do not apply when 10-15 mph wind is blowing toward non-target sensitive crops. (*Xtendimax/ FeXapan*).
22. Do not apply when 10-15 mph wind is blowing toward neighboring sensitive crops. (*Engenia*)
23. Must be familiar with local wind patterns and how they affect drift.
24. Must maintain a 110' downwind buffer from sensitive areas.
25. Must maintain a 220' downwind buffer from sensitive areas (*Xtendimax/FeXapan only at the 44 oz. per acre rate*).
26. Do not apply where drift may occur to food, forage, or other plantings that may be damaged or crops rendered unfit for sale, use, or consumption (i.e. no tolerance established for non-target crop).
27. Do not allow contact with foliage, green stems, exposed non-woody roots of crops, and desirable plants, including beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potato, soybean, sunflower, tobacco, tomato, and other broadleaf plants, including plants in a greenhouse.
28. Must survey application site for neighboring non-target susceptible crops before application. (*Xtendimax/FeXapan*)
29. Must survey application site for neighboring sensitive areas before application. (*Engenia*)
30. Must consult *FieldWatch* <http://www.fieldwatch.com/> to identify any commercial specialty or certified organic crops near application site before application. (*Xtendimax*)
31. Do not apply when wind is blowing toward adjacent commercially grown dicamba sensitive crops, including but not limited to, commercially grown tomatoes and other fruiting vegetables (EPA crop group 8), cucurbits (EPA crop group 9), and grapes.
32. Must monitor interaction of equipment and weather related factors to maximize on-target spray deposition.
33. Must clean equipment immediately after use by the label-prescribed triple rinse procedure. (*Xtendimax/FeXapan*)
34. Must dispose of all rinse water according to local, state, and federal requirements.
35. Do not count days when the ground is frozen for crop rotation restrictions.

Compliance and Enforcement in Indiana:

As with all products, “The Label is the Law”. OISC will be monitoring and enforcing the label requirements and use restrictions on these new labels, as well as the labels of older dicamba containing herbicides. It is important to remember that older labeled dicamba herbicides are **NOT** approved for the newer use patterns on dicamba tolerant (DT) soybeans. Pre-plant timing restrictions and post-emergence application prohibitions still apply for those older products.

In addition, OISC will be monitoring herbicide dealers and distributors to ensure that older labeled dicamba products are not being diverted to DT soybean growers for illegal use, as occurred in other states during 2016. The Indiana Pesticide Review Board has urged OISC to apply the most stringent penalties available for violators whose actions might jeopardize the successful introduction of this new much-needed weed management option.

Reporting Problems Regarding Distribution or Application:

Questions, complaints, and reports of dicamba misuse, mishandling, or off-target exposure may be directed to OISC at (800) 893-6637 or saxtong@purdue.edu.

****For updates to this document refer to http://www.oisc.purdue.edu/pesticide/news_alerts.html***