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TECH Tips

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Dicamba Tolerant Soybeans: Pesticide Mixing Order- 2023

Tank mixes are the mandated standard application method used in today's production systems for dicamba tolerant soybeans. Spray additives pre-condition water to increase the efficacy of dicamba as well as the glyphosate or glufosinate. Drift Reduction Additives (DRA) and Volatility Reduction Agents (VRA) are now mandated. Added deposition aids can significantly improve product performance. Proper mixing order influences product performance, compatibility, tank cleaning, and drift. Applicators must read and follow label directions and must follow online recommendations and restrictions, including printing copies of approved tank-mixtures from www.xtendimaxapplicationrequirements.com or www.engeniatankmix.com and attaching copies to the application reports.

2023 Dicamba Tolerant Crops Pesticide Mixing Order

- 1) Fill spray tank half full of water and begin **agitation**. Allow plenty of time between ingredient additions, as each product must be completely dissolved and mixed before the next ingredient.
- 2) Add **ARx Complete +** or other **4-way/complete adjuvant and agitate**.
 - a. Add non-AMS water conditioner if not using a 4-way product like ARx Complete + and **agitate**.
- 3) Rinse the mix cone or eductor tank completely and **agitate**.
- 4) **When NOT using a 4-way/complete adjuvant like ARx Complete +:** Add the mandated Volatility Reduction Agent (VRA) (**20 oz/a Suralta VRA, 20 oz/a Volt-Edge VRA, 8 oz/a Sentris, etc.**).
- 5) Rinse the mix cone or eductor tank completely and **agitate**.
- 6) Add Water Dispersible Granular (WDG) and Extruded Granular (G) products and **agitate until dissolved and suspended**.
- 7) Add Flowables (F), Soluble Concentrate (SC) or Suspo-Emulsion (SE) products and **agitate**.
- 8) **When NOT using ARx Complete +:** Add **Drift Reduction Agent** and **agitate**.
- 9) Add in **XtendiMax or Engenia or Tavium** and **agitate**.
- 10) Add nutrients/micronutrients (**ARx NutraSul DT or other brands**) and **agitate**.
- 11) Add insecticides, fungicides and EC products (IE: corn-killer herbicides or EC-formula residuals) and **agitate**.
- 12) Add glyphosate products (K-Salt only) and **agitate**.
- 13) Add additional adjuvants (**ARx Corepoint (HSCOC), ARx Tarex (HSMSO) or ARx Zellar**) and **agitate**.
- 14) Add drift and deposition aid (**ARx Affix**) and **agitate**.
- 15) Finish filling the spray tank with water and continue **agitation**.
- 16) End the day with the sprayer empty and the spray booms flushed, if possible. **General Tank Cleaning**

Guidelines- Clean spray tank BEFORE and AFTER spraying dicamba. Triple rinse the sprayer and use **Erase** tank cleaner in the second rinse. Be sure to thoroughly clean spray booms, end caps and nozzle bodies and make every effort to rinse and/or fully empty the spray boom each night.