The following draft terms of registration apply to XtendiMax with VaporGrip Technology (EPA File Symbol 264-RERN):

General Terms

1. The registration will expire on December 20, 2025.

Herbicide Resistance Management Plan

2. You must maintain, update and follow an Herbicide Resistance Management Plan (HRM) as described in Appendix D regarding field detection and remediation, education, evaluation, reporting, and best management practices (BMPs).

Tank Mixing, Spray Drift, and Volatility-Reduction Adjuvant Requirements

3. You must maintain a website at http://XtendiMaxapplicationrequirements.com. That website will include a list of products that have been tested pursuant to Appendix A and found, based upon such testing, not to adversely affect the spray drift properties of XtendiMax with VaporGrip Technology. The website will identify a testing protocol, consistent with Appendix A, that is appropriate for determining whether the tested product will adversely affect the drift properties of XtendiMax with VaporGrip Technology. The website must state that any person seeking to have a product added to the list of approved tank mix partners must perform a study either pursuant to the testing protocol identified on the website or another protocol that has been approved for the particular purpose by EPA, and must submit the test data and results, along with a certification that the studies were performed either pursuant to the testing protocols identified on the website or pursuant to another protocol(s) approved by EPA and that the results of the testing support adding the product to the list of products tested and found not to adversely affect the spray drift properties of XtendiMax with VaporGrip Technology, to Bayer. Bayer will determine whether the testing and results conform to the conditions prescribed in this protocol and, depending on the test conditions and results, will either post the product on the website at http://XtendiMaxapplicationrequirements.com or notify the third-party entity that the product did not meet the requirements for posting. Once notified by a third party, you will add appropriately certified products to the list no more than 90 days after you receive such notice. Testing of tank-mix products must be conducted in compliance with procedures as stated forth in Appendix A.
4. All test data relating to the impact of tank-mixing any product with XtendiMax with VaporGrip Technology on drift properties of XtendiMax with VaporGrip Technology generated by you or somebody working for you or submitted to Bayer by a third party, along with a certification indicating whether the study was performed either pursuant to the testing protocols identified on the website or pursuant to other protocols approved by EPA and whether the results of the testing support adding the product to the list of products tested and found not to adversely affect the spray drift properties of XtendiMax with VaporGrip Technology, must be retained by Bayer. Any and all such records must be submitted to the EPA's Office of Pesticide Programs upon request.
5. The prohibition of using products in a tank-mix with XtendiMax with VaporGrip Technology unless the product used is contained on the list http://XtendiMaxapplicationrequirements.com, and the identification of the website address, shall be included in educational and information materials developed for Bayer, including the materials identified in Appendix D, Section B.
6. Testing of any volatility-reduction adjuvant must be conducted in compliance with procedures as set forth in Appendices A and E. Any potential volatility-reduction adjuvant must demonstrate passing

results for both wind tunnel testing as set forth in Appendix A and humidome testing set forth in Appendix E.

7. Bayer must maintain a Volatility-Reduction Adjuvant tab (may also be called Volatility Reduction Agent, Buffering Adjuvant, or Buffering Agent) on the website at http://XtendiMaxapplicationrequirements.com. The website must identify testing protocols, consistent with Appendices A and E. Products that have been tested pursuant to such testing protocols by Bayer and found, based upon such testing, to meet the passing requirements according to Appendices A and E may be added to the list of approved volatility-reduction adjuvant products on the website tab described above. Bayer must retain copies of all data and analysis from test performed by, or provided to, Bayer based on the Appendices A and E protocols. Upon the Agency's request, copies of such test data and analysis must be submitted to EPA's Office of Pesticide Programs, along with certification indicating whether the study was performed either pursuant to the testing protocols identified on the website or pursuant to other protocols approved by EPA and whether the results of the testing support adding the product(s) to the list of products tested and found to meet the passing requirements of the testing standards in Appendices A and E.
8. If a third party requests the addition of a volatility-reduction adjuvant, at the discretion of Bayer, the registrant will perform wind tunnel and humidome studies pursuant to the testing protocols in Appendices A and E or request the third-party to perform such studies. Should registrant decline to perform testing, the third-party entity or a testing facility on their behalf must perform a study pursuant to the testing protocol identified on the website and must submit to Bayer the test data and results, along with certification that the studies were performed pursuant to the testing protocols identified on the website and that the results of the testing support adding the product to the list of approved volatility-reduction adjuvants for XtendiMax with VaporGrip Technology. Bayer will determine whether the testing and results conform to the conditions prescribed in the protocols and, depending on the test conditions and results, will either post the product on the website at http://XtendiMaxapplicationrequirements.com or notify the third-party entity that the product did not meet the requirements for posting. Once notified by a third-party, you will add appropriately certified products to the list no more than 90 days after you receive such notice. Bayer will retain records related to this third-party testing and will supply these records to EPA upon their request.
9. The requirement that an approved volatility-reduction adjuvant must always be tank-mixed with XtendiMax with VaporGrip Technology, and the identification of the website address for http://XtendiMaxapplicationrequirements.com containing the list of approved volatility-reduction adjuvants shall be included in educational and information materials developed by or for Bayer, including materials identified in Appendix D, Section B.
10. So long as the XtendiMax registration continues to require use of a volatility-reduction adjuvant with every application, Bayer will:
    a. Take appropriate action(s) to ensure that a sufficient supply of VaporGrip Xtra or any other qualified volatility-reduction adjuvant is in the channels of trade for all XtendiMax applications each year, including quantities of XtendiMax contained in products produced by other registrants. To ensure the supply of qualified volatility-reduction adjuvant is sufficient throughout each season, Bayer will:
        i. Project and monitor distribution of XtendiMax
        ii. Monitor available VaporGrip Xtra/ volatility-reduction adjuvant in relevant channels of trade
        iii. Make available additional supplies if needed to ensure sufficient quantities of VaporGrip Xtra/ volatility-reduction adjuvant are available to allow lawful application of the full quantity of XtendiMax that is available in the channels of trade; and

iv. Maintain capacity to produce additional VaporGrip Xtra/ volatility-reduction adjuvants (or to cause more VaporGrip Xtra/ volatility-reduction adjuvants to be produced) whenever any further need is anticipated.

b. Make arrangements through appropriate distribution networks to ensure that VaporGrip Xtra or other appropriate volatility-reduction adjuvants are timely available to applicators in all locations where XtendiMax will be applied, before any applicator would apply XtendiMax. Access to VaporGrip Xtra will either be through the same retail outlets as XtendiMax, or if necessary, in particular locations, available from other readily accessible sources. Registrant will timely make available to every applicator information on where VaporGrip Xtra can be ordered or purchased.

c. Ensure that all training materials clearly require the mandatory use of VaporGrip Xtra or another volatility-reduction adjuvant with every XtendiMax application. Work with State authorities to ensure that appropriate training occurs before any application of XtendiMax is made.

d. Registrant Recordkeeping: Bayer will keep records appropriate to document its compliance with its volatility-reduction adjuvant quantity commitments. Bayer will make records available to EPA upon request.

Enhanced Reporting

Bayer must submit the information identified below to EPA's Office of Pesticide Programs under section 6(a)(2), or under 40 CFR 159.195, unless you have previously submitted that information to EPA's Office of Pesticide Programs. To the extent that this reporting requirement conflicts with or is more narrow than any reporting requirements of section 6(a)(2), 40 CFR part 159, or EPA's letter of March 27, 2020 pursuant to 40 CFR 159.195(c), the broader reporting requirement applies.

11. Information received by telephone or in writing regarding potential damage to non-target vegetation from use of dicamba during the 2021-2025 growing seasons regardless of any determination that the incident resulted from misuse (intentional or accidental). Information must be forwarded to EPA regardless of which dicamba product may have been used and/or whether or not the alleged damage resulted from a product being used according to label directions. Data must be organized by product and state to the extent practicable, and must include all available information regarding acreage involved, plant species involved, severity of damage, date and location (coordinates) of incident, known dicamba applications in vicinity of incident, location of application (coordinates), distance from application to incident, temperature and humidity data at time of application, and similar information received. Incident data must be submitted in narrative form and in a spreadsheet format. This information must be submitted with cumulative totals and be submitted annually by January 15 (beginning by January 15, 2022) and final report with all then available information due September 30, 2025.
12. Information received by telephone or in writing regarding reports of dicamba-resistant weeds, and cases of weed control failure and/or suspected resistance. All information must be forwarded to EPA regardless of which dicamba product may have been used and/or whether or not the alleged resistance occurred after an application made according to label directions. This information must be submitted annually by January 15 (beginning January 15, 2022) and final report with all then available information due September 30, 2025.
13. Any information received by Bayer or finding in an analysis conducted by Bayer that foods/commodities contain dicamba residues that are not covered by a tolerance or exceed established tolerance levels. This information must be submitted annually by January 15 (beginning January 15,2022) and final report with all then available information due September 30, 2025.

Hooded Sprayer Qualification Requirement

14. Testing of hooded sprayers must be conducted in compliance with procedures as set forth in Appendix F.
15. If XtendiMax with VaporGrip Technology label provides for a reduced buffer when a qualified hooded sprayer is used, Bayer must maintain a hooded sprayer tab on the website at http://XtendiMaxapplicationrequirements.com identifying the qualified hooded sprayers. The website must identify a testing protocol, consistent with Appendix F, that is appropriate for determining whether spray drift of dicamba from the proposed hooded sprayer is equivalent to or less than (*i.e.*, not statistically greater than) that from the established baseline hooded sprayer in Appendix F. Hooded sprayers that have been tested pursuant to Appendix F by Bayer and found, based upon such testing, to reduce the spray drift of dicamba to a level that is equivalent to or less than that from the established baseline hooded sprayer identified in Appendix F may be added to the list of qualified hooded sprayers on the website tab described above. Bayer must retain copies of all data and analysis from tests performed by, or provided to, Bayer based on the Appendix F protocol. Upon the Agency's request, copies of such test data and analysis must be submitted to EPA's Office of Pesticide Programs, along with certification indicating whether the study was performed pursuant to the testing protocols identified on the website and whether the results of the testing support adding the tested hooded sprayer to the list of products tested and found to result in spray drift of dicamba to a level that is equivalent to or less than that from the established baseline hooded sprayer identified in Appendix F.
16. Additionally, the website must state that any other person or entity seeking to have a hooded sprayer added to Bayer's list of qualified hooded sprayers must contact Bayer prior to any testing for this purpose. At the discretion of Bayer, Bayer will either perform a study pursuant to the testing protocol herein or request the third-party to perform such study. Should Bayer decline to perform testing, the third-party entity or a testing facility on their behalf must perform a study pursuant to the testing protocol identified on the website and must submit to Bayer the test data and results, along with certification that the studies were performed pursuant to the testing protocol identified on the website and that the results of the testing support adding the hooded sprayer to the list of qualified hooded sprayers for dicamba. Bayer will certify that the testing and results conform to the conditions prescribed in this protocol and, pursuant to the test conditions and results, will either post the hooded sprayer on the website at http://XtendiMaxapplicationrequirements.com or notify the third-party entity that the hooded sprayer did not meet the requirements for posting. Bayer will retain records related to this third-party testing of hooded sprayers and will supply these records to EPA upon their request.
17. Dicamba application requirements when using qualified hooded sprayers, the listing of qualified hooded sprayers on the http://XtendiMaxapplicationrequirements.com website, and the identification of the website address shall be included in educational and information materials developed by or for Bayer, including the materials identified in Appendix D, Section B.

Appendix A

Testing of Tank Mix Products for Spray Drift Properties

Products proposed for tank-mixing with may be added to the list of products that will not adversely affect the spray drift properties of XtendiMax with VaporGrip Technology contained on the web site if a study is performed under the testing conditions set forth below; the test information is reported as set

forth below; and the results are interpreted as set forth below and the interpretation supports adding the tested product to the list of products that will not adversely affect the spray drift properties of XtendiMax with VaporGrip Technology:

Testing Conditions

Spray chamber test using conditions described in ASTM E-2798-11; or Wind Tunnel test using conditions described in EPA Final Generic Verification Protocol for Testing Pesticide Application Spray Drift Reduction Technologies for Row and Field Crops (September, 2013)

Testing Media:	XtendiMax with VaporGrip Technology + XtendiMax with VaporGrip Technology Proposed Tank Mix Product
Test Nozzle:	Tee Jet® TTI 11004 at 63 psi
Number of Replicates:	3 for each tested medium

Reporting

Validation information as summarized in Appendix B

Full droplet spectrum to be reported for each replicate of each tested medium

Perform AGDISP (8.26) modeling run for each replicate droplet spectrum for each tested medium (AGDISP input parameters described in Appendix C)

Establish 110 foot (0.5 lb ae/A rate) spray drift deposition estimates from AGDISP run on each replicate for each tested medium

Establish mean and standard deviation of 110 foot (0.5 lb ae/A rate) deposition for the 3 replicates of each tested medium

One-tail (upper bound) t-test (p=0.1) to determine if proposed tank-mix product is statistically greater than XtendiMax with VaporGrip Technology 110 foot (0.5 lb ae/A rate) spray drift deposition.

Interpretation of Results

If mean 110 foot (0.5 lb ae/A rate) deposition for proposed tank-mix product is not statistically greater than mean 110 foot deposition for XtendiMax with VaporGrip Technology, proposed tank-mix product can be added to the list of products that will not adversely affect the spray drift properties of XtendiMax with VaporGrip Technology contained on the web site. If mean 110 foot (0.5 lb ae/A rate) deposition for proposed tank-mix product is statistically greater than mean 110 foot (0.5 lb ae/A rate) deposition for XtendiMax with VaporGrip Technology, proposed tank-mix product cannot be added to the list of products on the web site.

Results from other testing protocols will be acceptable for adding products to the list of products that will not adversely affect the spray drift properties of XtendiMax with VaporGrip Technology provided that EPA has determined in writing that such other protocol is appropriate for such purpose.

Appendix B

Validation Criteria

a. Detailed information of instrument setting and measurements
- The distance from the nozzle tips to the laser settings
- Measurements of airspeed and flow rate of liquid

b. Detailed information of test substances
- Volume composition and density of XtendiMax with VaporGrip Technology formulation and tank mixes

c. Summary of the entire spray output distribution for each nozzle/tank mixes with statistical analysis of replicates.

d. Graphical outputs of Sympatec Helos laser diffraction particle size analyzer for individual spectrum

e. Report of Dv0.1 (SD), Dv0.5 (SD), and DV0.9 (SD) as well as mean % fines of (< 141μm SD)

Appendix C

AGDISP Input Parameters

Parameter	Value	Comments
Application Method Section		
Method	Ground	
Nozzle Type	Flat fan (Default)	The direct use of the DSD overrides the use of "nozzle type"
Boom Pressure	63 psi	If nozzles/tank mixes were tested at 63 psi. It has to be consistent with tank mix as well as XtendiMax with VaporGrip Technology for both TeeJet® and AIXR nozzles
Release Height	3 ft	Default
Spray Lines	20	Default
Meteorology Section		
Wind Type	Single height	Default
Wind Speed	15 mph	Upper bound from label
Wind Direction	-90 deg	Worst-case and default
Temperature	65 F	Default
Relative Humidity	50%	Default
Surface Section		
Angles	0	Default
Canopy	None	Default
Surface Roughness	0.12 ft	Mean of "crops" cover type
Application Technique Section		
Nozzles	54, even spacing	Standard boom setup
DSD	From wind tunnel results, imported in library	
Atmospheric stability	Strong	Default
Swath Section		
Swath width	90 ft	Standard boom
Swath displacement	0 ft	Worst-case
Spray Material Section		
Spray volume rate	15 gal/A	From label
Volatile/nonvolatile fraction	M 1768 at 1.72% v/v	To calculate volatile/nonvolatile fraction in the tank mix for the model input, provide detailed information of the tested formulations and tank mixes. See sample calculation, below[1]

[1]The tested mixture was 1.72% (v/v) XtendiMax. XtendiMax has a density of 10.2 lb/gal and contains 42.8% (w/v) dicamba DGA salt (2.9 lb acid equivalent/gal).
For example, a 10-gallon batch would contain the following:
XtendiMax 1.71% * 10 gal = 0.172 gal ; 0.172 gal * 10.2 lb/gal = 1.753 lb
Water 10 gal (1280 fl oz) – 22 fl oz = 1258 fl oz = 82.0157 lb
Total weight 1.753 lb + 82.016 lb = 83.769 lb
Active ingredient fraction: 1.753 lb * 42.8% a.i. = 0.75 lb; 0.75 lb/83.769 lb = 0.00896 (dimensionless)
Non-volatile fraction: 0.00896/0.428 = 0.021 (dimensionless)

Appendix D

HERBICIDE RESISTANCE MANAGEMENT PLAN

Bayer must develop a herbicide resistance management plan that includes all of the following elements:

A. Field Detection and Remediation Components:

1. Update and implement an education program for growers, as set forth under the "Educational / Informational Component," below, that identifies appropriate best management practices (BMPs), as set forth under the "Best Management Practices (BMPs) Component," below, to delay, contain, and/or control weed resistance. This plan must convey to growers the importance of complying with BMPs and addressing resistance concerns.
2. If any grower or user informs you of a lack of herbicide efficacy, then you or your representative must (unless denied access by the grower) evaluate the field for "likely resistance" to XtendiMax with VaporGrip Technology for each specific species for which lack of herbicide efficacy is reported by applying the criteria set forth in Norsworthy, *et al.*, "Reducing the Risks of Herbicide Resistance: Best Management Practices and Recommendations," Weed Science 2012 Special Issue: 31–62 (*hereinafter* "Norsworthy criteria")[1] in each specific state. If denied access, Bayer must document this denial of access.
3. If Bayer receives information of confirmed resistance to dicamba in a specific state for a specific weed species, then Bayer must immediately report such confirmation to EPA and applicable state pesticide authority and extension services (e.g., state in which resistance is found). After that time, Bayer need no longer investigate new reports of lack of herbicide efficacy regarding that specific species in that specific state, but Bayer must continue to comply with A.2. above in regard to any other weed species in any such state and develop, submit to EPA, and implement a strategy to address the ongoing resistance. In addition, for each grower or user in any jurisdiction who reports a lack of efficacy, Bayer must continue to make available stewardship information about resistance management to the grower or user throughout their use of this product, regardless of whether resistance is confirmed.
4. Bayer must keep records of all field evaluations and all grower or user reports of lack efficacy or "likely resistance" for a period of 3 years and make such copies available to EPA upon request.
5. In any case described in A.2. above where one or more of the Norsworthy criteria are met for a weed species not already confirmed to be resistant to dicamba in that specific state, Bayer must:

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[1] The Norsworthy "likely herbicide resistance" criteria are: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; or (2) a spreading patch of uncontrolled plants of a particular weed species; or (3) surviving plants mixed with controlled individuals of the same species. The identification of any of these criteria in the field indicates that "likely herbicide resistance" is present.

Provide the grower with specific information and recommendations to control and contain likely resistant weeds, including retreatment and/or other non-chemical controls, as appropriate. If requested by grower, Bayer or its agent must continue to provide information and recommendations in the implementation of weed control measures. At the time of the initial determination that one or more of the Norsworthy criteria are met, and prior to any application of alternative control practices, Bayer must request that the grower provide Bayer access to the relevant field(s) to collect sufficient specimens of the likely resistant weeds (potted specimens or seeds) to be able to effectively evaluate the suspected resistant weeds for resistance for further evaluation in the greenhouse or laboratory. Alternately, Bayer may request that the grower or user provide such specimens, at Bayer's expense. If access is granted, Bayer must promptly collect samples of the suspected resistant weeds if available. If viable specimens have been collected, Bayer must commence greenhouse or laboratory studies to confirm whether resistance is present as soon as practicable following sample collection.

B. Educational / Informational Component:

1. Bayer must develop, annually update, provide to EPA and make available to state pesticide authority and extension service, and implement an education program for growers and users that includes the following elements:
   a. The education program shall identify appropriate best management practices (BMPs), set forth under the "Best Management Practices (BMPs) Component," below, to delay, contain, and/or control weed resistance, and shall convey to growers the importance of complying with BMPs;
   b. The education program shall include at least one written communication regarding herbicide resistance management each year, directed to users of XtendiMax with VaporGrip Technology for use over-the-top on dicamba tolerant soybean or cotton; and
   c. Bayer must transmit the BMPs to all users of XtendiMax with VaporGrip Technology. In addition to the other requirements of these Terms and Conditions, this transmittal must describe to growers and users the commitments as described in section A.5 about investigations of suspected dicamba-resistant weeds.
   d. All Bayer herbicide sales representatives must have immediate access to the education program for distribution to growers, users, extension agents, neighboring landowners, and any other interested stakeholder.
2. Bayer must develop, annually update, provide to EPA, and implement an education program on label requirements for growers and users that includes the following elements:
   a. The education program must include information about how to determine the appropriate buffers so that users have a better understanding what constitutes a buffer on his/her field(s), and recommendations for weed control practices in buffer zones. The education program must also include information on determination of sensitive areas and cutoff date restrictions.

b. Provide training on the use of broadcast hooded sprayers (e.g., what qualifies as hooded sprayer, appropriate uses, manufactures).
c. Training for sprayer cleanouts (before and after spraying as indicated on labels).
d. Training for Bulletins Live 2!.
e. Training on updated record keeping requirements.
f. Training should be modified to clearly prohibit the use of the dicamba products not intended for use on DT crops for all application timings.
g. Training on the use of newly required pH buffering adjuvants (volatility-reduction adjuvants) and/or drift reduction adjuvants.
h. Training on how users/growers can report incidents and control failures to EPA and states.
i. Provide to EPA the original education program for dicamba users within three months of the issuance of this registration. Provide the educational materials to states that provide their own training. Provide any other stakeholder with educational materials upon request.

C. Evaluation Component:

1. Bayer will annually conduct a survey directed to users of XtendiMax with VaporGrip Technology for use over-the-top of dicamba tolerant soybean or cotton. This survey must be based on a statistically representative sample. The sample size and geographical resolution should be adequate to allow analysis of responses within regions, between regions, and across the United States. Bayer must submit the draft survey to EPA as well as the survey results. This survey shall evaluate, at a minimum, the following:
   a. Growers' and users' adherence to the terms of the XtendiMax with VaporGrip Technology Use Directions and Label Restrictions, if XtendiMax with VaporGrip Technology is used, and
   b. Whether growers have encountered any perceived issue with non-performance or lack of efficacy of XtendiMax with VaporGrip Technology and, if so, how growers have responded.
   c. Whether growers have reported any issues with non-performance of lack of efficacy of XtendiMax with VaporGrip Technology and how the company representatives have responded.
   d. A question asking about awareness of public records of resistance (e.g., any awareness of popular press or industry publications on dicamba resistance or suspected resistant biotypes).
   e. A question directed to asking about awareness of personal/neighbor reports of resistance.
   f. Application practices for dicamba product applied (rate, time, amount, etc.) to the fields planted with dicamba-resistant seed.
2. Utilize the results from the survey described in paragraph 1 of this section to annually review, and modify as appropriate for the upcoming growing season, the following elements of Bayer's resistance management plan:
   a. Efforts aimed at achieving adoption of BMP's;
   b. Responses to incidents of likely resistance and confirmed resistance; and
   c. The education program and effectiveness of information dissemination. At

the initiative of either EPA or Bayer, EPA and Bayer shall consult about possible modifications of the education program.

3. Bayer must annually report to EPA any changes to its resistance management plan made in response to survey results as provided in section D.1.below.

D. Reporting Component:

1. Submit annual reports to EPA by January 15 (beginning January 15, 2022) and final report with all then available information due September 30, 2025. Such reports shall include:
   a. Annual sales of XtendiMax with VaporGrip Technology by state and, if applicable, annual sales of (traited seed) by state, which shall be treated by EPA as confidential business information;
   b. The first annual report shall include the current education program and associated materials, and subsequent annual reports shall include updates of any aspect of the education program and associated materials that have materially changed since submission of the previous annual report, along with results of the survey as described in section C of this document;
   c. Summary of your efforts aimed at achieving implementation of BMP's by all growers and users;
   d. Summary of your determinations as to whether each reported lack of herbicide efficacy was "likely resistance," your follow-up actions taken, and, if available, the ultimate outcome (e.g., evaluation of success of additional weed control measures) regarding each case of "likely resistance." In the annual report, Bayer must list the cases of likely resistance by county and state.
   e. The results of the annual survey described in paragraph 1 under "Evaluation Component," above, including the extent to which growers are implementing herbicide resistance BMPs, and a summary of your annual review and possible modification – based on that survey – of the education program, , and response to reports of likely resistance, described in paragraph 2 under "Evaluation Component," above; and
   f. Summary of the status of any laboratory and greenhouse testing conducted pursuant to section A.5 following up on incidents of likely resistance, performed in the previous year. Data pertaining to such testing must be included in the annual reports. Any confirmed resistance must be reported through appropriate, publicly available HRM channels, such as [HYPERLINK "http://www.weedscience.org"] or www.hracglobal.com.
   g. Report how many training sessions Bayer conducted, identifying the dates, locations, and numbers of individuals trained per session. If Bayer supported or partnered with other entities to provide training, report the names of the entities and the number of training sessions conducted by each, identifying the dates, locations, and numbers of individuals trained per session.

Following your submission of the annual report, you shall meet with the EPA at EPA's request in order to evaluate and consider the information contained in the report.

E. Best Management Practices (BMPs) Component:

1. Best management practices (BMPs) must be identified in your education program. Growers and users must be advised of BMP's in product literature, educational materials and training. Bayer's transmittal of the BMPs must also describe to growers the commitments in this section of this document. Such BMPs must direct growers and users to scout fields before application to ensure proper weed identification and after application to confirm herbicide effectiveness, and that growers and users should report any incidence of lack of efficacy of this product against a particular weed species to Bayer or a Bayer representative.
2. The following are the additional elements and information that must be included in these BMPs:
   a. Regarding crop selection and cultural practices:
      i. Understand the biology of the weeds present.
      ii. Use a diversified approach toward weed management focused on preventing weed seed production and reducing the number of weed seeds in the soil seed-bank.
      iii. Emphasize cultural practices that suppress weeds by using crop competitiveness.
      iv. Plant into weed free fields, keep fields as weed free as possible, and note areas where weeds were a problem in prior seasons.
      v. Incorporate additional weed control practices whenever possible, such as mechanical cultivation, biological management practices, crop rotation, and weed-free crop seeds, aspart of an integrated weed control program.
      vi. Do not allow weed escapes to produce seeds, roots or tubers.
      vii. Manage weed seed at harvest and post-harvest to prevent a buildup of the weed seed-bank.
      viii. Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
      ix. Thoroughly clean plant residues from equipment before leaving fields.
      x. Prevent an influx of weeds into the field by managing field borders.
      xi. Fields must be scouted before application to ensure that herbicides and application rateswill be appropriate for the weed species and weed sizes present.
      xii. Fields must be scouted after application to confirm herbicide effectiveness and to detect weed escapes.
      xiii. If resistance is suspected, treat weed escapes with an alternate mode of action or use non-chemical methods to remove escapes.

   b. Regarding herbicide selection:
      i. Use a broad spectrum soil applied herbicide with a mechanism of action that differs from this product as a

foundation in a weed control program.

ii. A broad spectrum weed control program should consider all of the weeds present in the field. Weeds should be identified through scouting and field history.

iii. Difficult to control weeds may require sequential applications of herbicides with alternative mechanisms of action.

iv. Fields with difficult to control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action.

v. Apply full rates of this herbicide for the most difficult to control weed in the field. Applications should be made when weeds are at the correct size to minimize weed escapes.

vi. Use of herbicides with differing modes of action is recommended to manage resistance.

vii. Report any incidence of lack of efficacy of this product against a particular weed species to Bayer or a Bayer representative.

Appendix E

Testing of Tank Mix Volatility-Reduction Adjuvants/Buffering Adjuvants Properties

Products proposed as [volatility-reduction adjuvants/buffering adjuvants] may be added to the list of approved products on http://XtendiMaxapplicationrequirements.com website if found, based upon such testing, that the Test Mixture results in a humidome airborne dicamba concentration are comparable to or less than the established Testing Standard as defined below.

Testing Conditions

Humidome test using conditions based on ASTM STP1587*, such as those outlined below. Testing is not required to be performed to GLP standards, but are expected to be well documented and validated, with associated record retention for potential future reference.

Testing Standard: [Dicamba Product] + Roundup PowerMAX + VaporGrip Xtra or Sentris (0.5 lb a.e./A + 1.125 lb a.e. glyphosate/A + XXX use rate)

Test Mixture: [Dicamba Product] + Roundup PowerMAX + Buffering Adjuvant (0.5 lb a.e. dicamba/A + 1.125 lb a.e. glyphosate/A + XXX use rate)
Water carrier rate: 15 GPA
Normal plastic humidome as specified in ASTM STP1587

Treated substrate: soil/soil blend as specified in ASTM STP1587 with 12-22% moisture

Temperature: 35 ± 5° C
Relative humidity: 40 ± 5% RH

Sample collection duration: 24 hours

Air sampling rate: 1.5-3.0 L/min

Air sampling filter: any substrate validated to capture >95% of dicamba (*e.g.*, fiberglass mesh + cotton pad, cellulose + PUF, MCE)

Replications: 3 minimum

Analysis: A one-tail (upper-bound) t-test ($\alpha = 0.10$) performed for all test mixtures relative to testing standard.

Passing result: If the Test Mixture mean was not statistically greater than that of the Testing Standard, then the [volatilityreduction adjuvant/buffering adjuvant] in the Test Mixture demonstrated the ability to reduce volatility equivalent to or better than that of [VaporGrip Xtra/Sentris].

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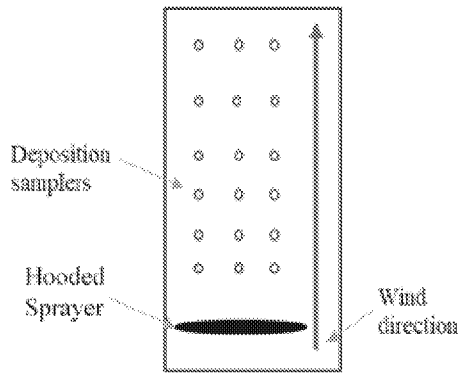
* Gavlick, W.K., D.R. Wright, A. MacInnes, J.W. Hemminghaus, J.K. Webb, V.I. Yermolenka, W. Su. 2016. A Method to Determine the Relative Volatility of Auxin Herbicide Formulations, Pesticide Formulation and Delivery Systems: 35th Volume, ASTM STP1587. pp. 24-32G. R. Goss, Ed. ASTM International, West Conshohocken, PA.

Appendix F

Protocol for Testing of Hooded Sprayers to Qualify for Reduced Downwind Spray Buffer Distances when Applying XtendiMax with VaporGrip Technology

Hooded sprayers proposed for in-crop (over-the-top) dicamba applications may be added to the list of qualified hooded sprayers on http://XtendiMaxapplicationrequirements.com website if found, based upon such testing, that it reduces the spray drift of dicamba to a level that is equivalent to or less than that from the established baseline hooded sprayer as defined below.

Testing Conditions



Testing is to be conducted in an Ambient Breeze Tunnel (ABT) controlled environment wind tunnel using the conditions outlined below, with guidance from US EPA (2016)[1]. A section of a hooded sprayer must be placed in the tunnel with the boom length perpendicular to the wind direction. Absorbent pads must line the floor of the ABT to prevent droplet bounce. Dicamba deposition samples must be collected at pre-determined distances downwind from the sprayer. After a 2-minute clear-out period, samples must be retrieved from the farthest to the closest distances relative to the sprayer for subsequent residue analysis to quantify dicamba deposition. Testing conditions are established herein with the express purpose of producing and comparing drift deposition curves between a baseline and a proposed hooded sprayer and are therefore not intended to be representative of field conditions.

Testing is not required to be performed to GLP standards but is expected to be well-documented and validated, with associated record retention for potential future reference. Results of testing must include a certification indicating whether the study was performed pursuant to this protocol and any deviations from it, and a conclusion stating whether the product tested meets the Passing Result criterion specified below.

Spray components:	Clarity® + Induce (0.5 lb a.e./A + 0.25% v/v)
Baseline hooded sprayer:	RedBall® 642E
Hooded sprayer tested:	TBD
Boom Configuration:	Contain a minimum of 4 nozzles with spacing according to manufacturer's use directions; fixed position; length perpendicular to wind direction; rear curtain of hood 3 inches above a simulated crop and, at the same boom height, above bare ground

[1] United States Environmental Protection Agency. 2016. Generic Verification Protocol for Testing Pesticide Application Spray Drift Reduction Technologies for Row and Field Crops

Nozzle/pressure:	TT 11003 at 50 psi
Spray rate:	15 GPA
Spray duration:	30 seconds
Wind speed:	Minimum 10 mph
Temperature:	10-35°C
Humidity:	20-80%
Deposition samplers:	Filter paper on blocks 3-in above ground
Number of samplers:	Minimum 3 at each downwind distance
Sampler distances:	Minimum 6 downwind distances for analysis purposes; distances should follow a geometric distribution (*e.g.*, 2, 4, 8, 20, 30, 60, and 120 feet) and cover out to 120 feet but may vary based on study considerations.
Drift simulations:	Minimum 3 per hooded sprayer
Analytical analysis:	Conducted per latest version of analytical method ME-1871 or another validated method[2]
Analysis:	Appropriate non-linear and/or generalized linear models will be fit to the drift deposition measurements of each hooded sprayer evaluated. After an appropriate model is selected, deposition estimates will be made at 2, 4, 8, 20, 30, 60, and 120 feet for both the baseline and proposed hooded sprayer. The boom orientation (crop canopy or bare ground) that gives the highest overall deposition for the baseline sprayer will be used for analysis. Deposition for the baseline hooded sprayer must be determined for each day's test in the ABT.
Passing result:	If a comparison of the deposition values for the proposed hooded sprayer to the baseline hooded sprayer at 20 feet, using a one-tailed t-test (assuming equal variances, upper bound, alpha=0.10), is not statistically different, then the proposed hooded sprayer functions equivalent to the baseline hooded sprayer.

[2] A study conducted with a validated analytical method other than ME-1871 must be accompanied with a report containing the environmental chemistry method, describing in full the analytical method that was used and validated, as well as an independent laboratory validation of the method.