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DATA MATRIX

Date: August 11, 2020	**EPA Reg. No./File Symbol:** 264-RERN
Applicant's/Registrant's Name & Address: Bayer CropScience LP, 801 Pennsylvania Ave, NW – Suite 745, Washington, D.C. 20004	**Product**: XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
Series 830	Product Chemistry Data - End Use Product (524-617)	49195401	Monsanto	OWN	9/3/2013
Series 830	Product Chemistry Data to Support the Registration of MON 11900 as a Technical Grade Herbicide (524-646)	50250901	Monsanto	OWN	6/1/2017
Series 830	Analysis of Group A Impurities to Support the Registration of MON 11900 as a Technical Grade Herbicide (524-646)	50250902	Monsanto	OWN	6/1/2017
Series 830	Analysis of Group B Impurities to Support the Registration of MON 11900 as a Technical Grade Herbicide (524-646)	50250903	Monsanto	OWN	6/1/2017
Series 830	Impurities in MON 11900 Wet Cake (524-646)	50250904	Monsanto	OWN	6/1/2017
830.1550, 830.1600, 830.1620, 830.1670	Product Identity and Composition, Description of Materials Used to Product the Product, Description of the Production Process, and Discussion of Formation of Impurities (524-634)	49895601	Monsanto	OWN	4/27/2016

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
830.1700, 830.1800	Preliminary Analysis and Enforcement Analytical Method (524-634)	49895602	Monsanto	OWN	4/27/2016
830.6302, 830.6303, 830.6304, 830.6314, 830.6315, 830.6316, 830.6317, 830.6320, 830.7000, 830.7100, 830.7300	Product Chemistry Data to Support the Registration of MON 119144 (Source A) as an End-Use Herbicide (524-AUT)	50290401	Monsanto	OWN	6/29/2017
830.6302, 830.6303, 830.6304, 830.6314, 830.6315, 830.6316, 830.6317, 830.6320, 830.7000, 830.7100, 830.7300	Product Chemistry Data to Support the Registration of MON 100306 as an End-Use Herbicide (524-AUO)	50290601	Monsanto	OWN	6/29/2017
830.6302, 830.6303, 830.6304	Color, Physical State, and Odor (524-634)	49895605	Monsanto	OWN	4/27/2016
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions (524-634)	49895606	Monsanto	OWN	4/27/2016

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
830.6313	Amendment 01: Stability to Normal and Elevated Temperatures, Metals, and Metal Ions (524-634)	49895607	Monsanto	OWN	4/27/2016
830.6317, 830.6320	Storage Stability and Corrosion Characteristics (524-634)	49895608	Monsanto	OWN	4/27/2016
830.6317, 830.6320	Amendment 01: Storage Stability and Corrosion Characteristics (524-634)	49895609	Monsanto	OWN	4/27/2016
830.7050	UV/Visible Absorption (524-634)	49895611	Monsanto	OWN	4/27/2016
830.7200	Melting Point/Melting Range (524-634)	49895612	Monsanto	OWN	4/27/2016
830.7200	Amendment 01: Melting Point/Melting Range (524-634)	49895613	Monsanto	OWN	4/27/2016

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
830.7370	Dissociation Constants in Water (524-634)	49895615	Monsanto	OWN	4/27/2016
830.7370	Dicamba: Determination of Rate of Dissociation (524-AUT)	50290412	Monsanto	OWN	6/29/2017
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method (524-634)	49895616	Monsanto	OWN	4/27/2016
830.7550	Amendment 01: Partition Coefficient (n-octanol/water), Shake Flask Method (524-634)	49895617	Monsanto	OWN	4/27/2016
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	49895618	Monsanto	OWN	4/27/2016
830.7840	Amendment 01: Water Solubility: Column Elution Method; Shake Flask Method (524-634)	49895619	Monsanto	OWN	4/27/2016

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
830.7950	Vapor Pressure (524-634)	49895620	Monsanto	OWN	4/27/2016
830.7950	Amendment 01: Vapor Pressure (524-634)	49895621	Monsanto	OWN	4/27/2016
NA	Purity of Dicamba TC and Analytical Validation for content of active ingredient Dicamba (524-634)	49895603	Monsanto	OWN	4/27/2016
NA	Amendment 01: Purity of Dicamba TC and Analytical Validation for content of active ingredient Dicamba (524-634)	49895604	Monsanto	OWN	4/27/2016
NA	Determination of the pH value of an aqueous solution of DICAMBA TC (524-634)	49895610	Monsanto	OWN	4/27/2016
NA	Determination of the bulk density of DICAMBA TC (524-634)	49895614	Monsanto	OWN	4/27/2016

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
835.8100	Volatility - field (524-582)	49022501	Monsanto	OWN	4/22/2013
835.8100	Volatility - field (524-582)	49888401	Monsanto	OWN	4/12/2016
835.8100	Volatility - field (524-582)	49888403	Monsanto	OWN	4/12/2016
835.8100	Volatility - field (524-617)	49888501	Monsanto	OWN	4/12/2016
835.8100	Volatility - field (524-617)	49888503	Monsanto	OWN	4/12/2016
835.8100	Field Volatility of Spray Solutions Containing Tank mixed Diglycolamine Dicamba (MON 76980) and Potassium Glyphosate (MON 79789) for Pre- and Post-emergent Treatments in 2016 Texas Field Trial (524-617)	50578902	Monsanto	OWN	4/27/2018

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
835.8100	Waiver Request for a Field Volatility Study with M1832 Herbicide (524-AUT)	50290409	Monsanto	OWN	6/29/2017
835.8100	Off-Target Movement of a Spray Solution Containing MON 76980 + MON 79789 + Intact - Arizona	50642801	Monsanto	OWN	8/14/2018
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-Emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + Intact (0.5% v/v) - Missouri	50642802	Monsanto	OWN	8/14/2018
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-Emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + Intact (0.5% v/v) - Nebraska	50642803	Monsanto	OWN	8/14/2018
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-Emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + Intact (0.5% v/v) - Missouri (524-617)	50717001	Monsanto	OWN	10/31/2018
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-Emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + Intact (0.5% v/v) - Minnesota (524-617)	50717003	Monsanto	OWN	10/31/2018

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Ingredient **Dicamba**

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835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-Emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + Intact (0.5% v/v) - Nebraska (524-617)	50717005	Monsanto	OWN	10/31/2018
835.8100	Field Volatility of Spray Solution Containing Dicamba for Post-emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + INTACT (0.5% v/v) - Illinois (524-617)	50835001	Monsanto	OWN	4/29/2019
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-emergent Uses: MON 76980 (22 oz/A) + MON 79789 (32 oz/A) + INTACT (0.5% v/v) - North Dakota (524-617)	50835003	Monsanto	OWN	4/29/2019
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Pre-emergent uses: MON 76980 (22 oz/A) and MON 79789 (35 oz/A) (524-617)	51133701	Monsanto	OWN	4/30/2020
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-emergent uses: MON 76980 (22 oz/A) and MON 79789 (35 oz/A) (524-617)	51133702	Monsanto	OWN	4/30/2020
835.8100	Field Volatility of Spray Solutions Containing Dicamba (MON 76980, 119144) for Pre- and Post-emergent Treatments in 2017 Nebraska Field Trial (524-617)	51133703	Monsanto	OWN	4/30/2020

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
835.8100	Field Volatility of Spray Solutions Containing Dicamba (MON 76980, MON 119151, and MON 76981) for Pre- and Post-emergent Treatments in 2017 Texas Field Trial (524-617)	51133704	Monsanto	OWN	4/30/2020
835.8100	Field Volatility of Spray Solutions Containing Dicamba for Post-emergent Uses: MON 76980 (22 oz/A) with different tank mix partners (524-617)	51134103	Monsanto	OWN	5/1/2020
835.SUPP	A Field-Scale Runoff Study to Determine Dicamba Herbicide Runoff Potential Under Furrow Irrigated Soybean Production Conditions (524-617)	51017508	Monsanto	OWN	1/15/2020
NA	Field Spray Drift Studies and AgDRIFT® (524-582)	49022404	Monsanto	OWN	3/12/2013
NA	Potential for Off-Site Movement - field (524-582)	48876001	Monsanto	OWN	7/17/2012
NA	Potential for Off-site Movement - DT Soybean (524-582)	48892302	Monsanto	OWN	8/7/2012

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Potential for Off-site Movement - DT Soybean & DGT Cotton (524-582)	49292801	Monsanto	OWN	3/18/2014
NA	Deposition Modeling for Dicamba Formulation #1 (524-582)	49925701	Monsanto	OWN	5/27/2016
NA	Downwind Air Concentration Estimates for Dicamba Formulation #1 (524-582)	49925702	Monsanto	OWN	5/27/2016
NA	Determination of Plant Response as a Function of Dicamba Vapor Concentration in a Closed Dome System (524-582)	49925703	Monsanto	OWN	5/27/2016
NA	Deposition Modeling for Dicamba Formulation #2 (MON 119096)	49925801	Monsanto	OWN	5/27/2016
NA	Downwind Air Concentration Estimates for Dicamba Formulation #2 (MON 119096)	49925802	Monsanto	OWN	5/27/2016

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with Formulation MON 79789 – 2018 Arizona (524-617)	50642804	Monsanto	OWN	8/14/2018
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with MON 79789 and Intact – 2018 Missouri Field Trial (524-617)	50717002	Monsanto	OWN	10/31/2018
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with MON 79789 and Intact – 2018 Minnesota Field Trial (524-617)	50717004	Monsanto	OWN	10/31/2018
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with MON 79789 and Intact – 2018 Nebraska Field Trial (524-617)	50717006	Monsanto	OWN	10/31/2018
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 mixed with MON 79789 and Intact - 2018 Illinois Field Trial 1 (524-617)	50835002	Monsanto	OWN	4/29/2019
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 mixed with MON 79789 and Intact - 2018 North Dakota Field Trial (524-617)	50835004	Monsanto	OWN	4/29/2019

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Product:
XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with AMS (524-617)	51133705	Monsanto	OWN	4/30/2020
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with Makaze (524-617)	51133706	Monsanto	OWN	4/30/2020
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 with Different Tank Mix Partners. 2018 Arizona Field Trial (524-617)	51134104	Monsanto	OWN	5/1/2020
835.8100, 840.1200	Off-target Movement Assessment of a Spray Solution Containing MON 76980 + MON 79789 + Intact - Mississippi (524-617)	51017501	Monsanto	OWN	1/15/2020
835.8100, 840.1200	Off-target Movement Assessment of a Spray Solution Containing MON 76980 + MON 79789 + Intact - Illinois (524-617)	51017502	Monsanto	OWN	1/15/2020
835.8100, 840.1200	Off-target Movement Assessment of a Spray Solution Containing MON 76980 + MON 79789 + Intact - Southeast Missouri (524-617)	51017503	Monsanto	OWN	1/15/2020

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DATA MATRIX

Date: August 11, 2020	**EPA Reg. No./File Symbol:** 264-RERN
Applicant's/Registrant's Name & Address: Bayer CropScience LP, 801 Pennsylvania Ave, NW – Suite 745, Washington, D.C. 20004	**Product**: XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
840.1200	Spray Drift Field Deposition (524-617)	49770301	Monsanto	OWN	11/19/2015
840.1200	Waiver Request for a Spray Drift Deposition Study with M1832 (524-AUT)	50290408	Monsanto	OWN	6/29/2017
840.1200	Off-Target Movement of a Spray Solution Containing MON 76980 Mixed with MON 119151 (524-617)	51134105	Monsanto	OWN	5/1/2020
NA	AGDISP Modeling of Droplet Spectrum Data for Two Dicamba Herbicide Formulations (524-617)	49770302	Monsanto	OWN	11/19/2015
NA	Determination of the Relative Volatility of Dicamba Herbicide Formulations (524-617)	49770303	Monsanto	OWN	11/19/2015
NA	Monsanto's Response to EFED Questions of January 30, 2015 (524-582)	49612701	Monsanto	OWN	4/13/2015

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Bayer CropScience LP, 801 Pennsylvania Ave, NW – Suite 745, Washington, D.C. 20004

Product:
XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Evaluation of Droplet Size Spectra of Herbicide Tank Mixes Containing M1768 Herbicide (524-617)	50103902	Monsanto	OWN	12/2/2016
NA	Evaluation of Drift Potential of Select Herbicide Tank Mixes Containing M1768 Herbicide (524-617)	50103903	Monsanto	OWN	12/2/2016
NA	Determination of a No Effect Crop Response as a Function of Dicamba Vapor Concentration in a Closed Dome System (524-617)	50578901	Monsanto	OWN	4/27/2018
NA	Deposition and Air Concentration Modeling for Dicamba Formulation MON 76980 Mixed with Formulation MON 79789 (524-617)	50578903	Monsanto	OWN	4/27/2018
NA	Off-Target Movement of a Spray Solution Containing MON 76980 Mixed with MON 79789 - Australia (524-617)	50606801	Monsanto	OWN	6/26/2018
NA	Deposition and Air Concentration Modeling for a Spray Solution Containing MON 76980 Mixed with Formulation MON 79789 - Australia (524-617)	50606802	Monsanto	OWN	6/26/2018

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Evaluation of Droplet Size Spectra for Various Tank Mixes in a Low Speed Wind Tunnel (524-617)	50580101	BASF, DuPont, Monsanto, Dow	Joint Ownership with BASF, DuPont, Dow	4/30/2018
NA	Evaluation of Droplet Size Spectra of Herbicide Tank Mixes Containing M1768 Herbicide (524-617)	50580102	BASF, DuPont, Monsanto, Dow	Joint Ownership with BASF, DuPont, Dow	4/30/2018
NA	The Scientific Basis for Understanding the Off-Target Movement Potential of Xtendimax (524-617)	50642701	Monsanto	OWN	8/3/2018
NA	Executive Summary: The Scientific Basis for Understanding the Off-Target Movement Potential of Xtendimax (524-617)	50653201	Monsanto	OWN	8/14/2018
NA	Further Discussion of Publicly Available Information on "Incident" Inquiries (524-617)	50673301	Monsanto	OWN	9/7/2018

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Summary of Confirmatory Spray Drift and Volatility Studies for Xtendimax Applications (524-617)	50681101	Monsanto	OWN	9/19/2018
NA	Preliminary Review of Spray Drift and Volatility Studies (524-617)	50686001	Monsanto	OWN	9/24/2018
NA	Summary of Visual Symptomology Observations from 2018 Large-Scale Academic Assessments of Dicamba Off-Target Movement (524-617)	50702201	Monsanto	OWN	10/30/2018
850.1100	AGDISP Modeling of Droplet Spectrum Data for M1832-TTI 11004 Nozzle (524-AUT)	50290411	Monsanto	OWN	6/29/2017
850.2200	Avian Dietary Toxicity Test (524-582)	49456001	Monsanto	OWN	8/27/2014
850.2200	Protocol: Avian Dietary Toxicity Test (524-582)	49292803	Monsanto	OWN	3/18/2014

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
850.4150	Waiver Request for Vegetative Vigor Study with M1832 Herbicide (524-AUT)	50290410	Monsanto	OWN	6/29/2017
850.4150	Effects to trees from foliar application of dicamba Clarity formulation - Interim Report (524-617)	51017507	Monsanto	OWN	1/15/2020
70-1-SS	The FIFRA Endangered Species Task Force Information Management System (IMS): Documentation of Structure and Function of IMS 1.1	46325901	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	The FIFRA Endangered Species Task Force Information Management System (IMS): Beta? Tested IMS 2.0 and Access to NatureServe Data	46486301	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	NatureServe Data Evaluation and Review	47260101	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
70-1-SS	NatureServe Dataset Licensed by FESTF - July 2012	48969501	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Federally Listed Species Location Information Aggregated by FESTF	48969502	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Data Available to Support Analysis of Designated Critical Habitat	48969503	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Coincidence of ESA-Listed Species with Federal Lands and Proximity to Outer Boundary	48969504	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
70-1-SS	Proximity of Species Occurrences and Designated Critical Habitat to Land Cover	48969505	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Aggregated Species Attribute Data	48969506	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Proximity Databases for Species Occurrences and Designated Critical Habitat Developed by the FIFRA Endangered Species Task Force	49272701	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Species Maps Using FESTF Aggregated Species Location Data and EPA-Provided Action Area Data - Phase I	49575201	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
70-1-SS	Data from NatureServe for Select Federally Listed Plants in Support of Dicamba	50678801	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
70-1-SS	Use Limitation Area (ULA) Development Summary	50678802	FIFRA Endangered Species Task Force (FESTF)	OWN	9/13/2018
NA	Endangered Species Assessment - DT Soybean (524-582)	48644202	Monsanto	OWN	2/27/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	48644203	Monsanto	OWN	2/27/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	48644204	Monsanto	OWN	2/27/2012

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Effects Soybean Plants - field low rates (524-582)	48892301	Monsanto	OWN	8/7/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	48900401	Monsanto	OWN	12/20/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	48900402	Monsanto	OWN	12/20/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	48900403	Monsanto	OWN	12/20/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	48900404	Monsanto	OWN	12/20/2012
NA	Endangered Species Assessment - DT Soybean (524-582)	49022301	Monsanto	OWN	1/25/2013

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Endangered Species Assessment - DT Soybean (524-582)	49022401	Monsanto	OWN	3/12/2013
NA	Endangered Species Assessment - DT Soybean (524-582)	49022402	Monsanto	OWN	3/12/2013
NA	Endangered Species Assessment - DT Soybean (524-582)	49022403	Monsanto	OWN	3/12/2013
NA	Endangered Species Assessment - DT Soybean (524-582)	49093201	Monsanto	OWN	4/4/2013
NA	Endangered Species Assessment - DT Soybean (524-582)	49093202	Monsanto	OWN	4/4/2013
NA	Amended report: Endangered Species Assessment - DT Soybean (524-582)	49117401	Monsanto	OWN	5/8/2013

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Endangered Species Assessment - DGT Cotton (524-582)	49221301	Monsanto	OWN	10/7/2013
NA	Endangered Species Assessment - DGT Cotton (524-582)	49221302	Monsanto	OWN	10/7/2013
NA	Endangered Species Assessment - DGT Cotton (524-582)	49221303	Monsanto	OWN	10/7/2013
NA	Endangered Species Assessment - DGT Cotton (524-582)	49221304	Monsanto	OWN	10/7/2013
NA	Endangered Species Assessment - DGT Cotton (524-582)	49221305	Monsanto	OWN	10/7/2013
NA	Endangered Species Assessment - DGT Cotton (524-582)	49221306	Monsanto	OWN	10/7/2013

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NA	Endangered Species Assessment - DGT Cotton (524-582)	49221307	Monsanto	OWN	10/7/2013
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49292802	Monsanto	OWN	3/18/2014
NA	Endangered Species Assessment - DGT Cotton (524-582)	49339101	Monsanto	OWN	4/17/2014
NA	Endangered Species Assessment - DGT Cotton (524-582)	49339102	Monsanto	OWN	4/17/2014
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49360401	Monsanto	OWN	4/17/2014
NA	Endangered Species Assessment - DT Soybean (524-582)	49374701	Monsanto	OWN	5/10/2014

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Endangered Species Assessment - DT Soybean (524-582)	49374702	Monsanto	OWN	5/10/2014
NA	Endangered Species Assessment - DT Soybean (524-582)	49374703	Monsanto	OWN	5/10/2014
NA	Endangered Species Assessment - DT Soybean (524-582)	49374704	Monsanto	OWN	5/10/2014
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49374801	Monsanto	OWN	7/3/2014
NA	Endangered Species Assessment - Buffer (524-582)	49424601	Monsanto	OWN	7/10/2014
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49428001	Monsanto	OWN	8/8/2014

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49457501	Monsanto	OWN	12/15/2014
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49457502	Monsanto	OWN	12/15/2014
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49457503	Monsanto	OWN	12/15/2014
NA	Endangered Species Assessment - DT Soybean & DGT Cotton (524-582)	49457504	Monsanto	OWN	12/15/2014
NA	Endangered Species Assessment for Dicamba Use on Dicamba-Tolerant Corn (524-617)	50268102	Monsanto	OWN	1/25/2018
NA	Review of Applicability of Data Considered for Endangered Species Action Area Determination (524-617)	50679201	Monsanto	OWN	9/14/2018

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DATA MATRIX

Date: August 11, 2020	**EPA Reg. No./File Symbol:** 264-RERN
Applicant's/Registrant's Name & Address: Bayer CropScience LP, 801 Pennsylvania Ave, NW – Suite 745, Washington, D.C. 20004	**Product**: XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	AGDISP Modeling of Low-Speed Wind Tunnel Droplet Size Spectrum Data for Tank Mixes with XtendiMAX with VaporGrip Technology, Engenia Herbicide, and Enlist Duo (524-617)	50388301	Joint Ownership with BASF/Dow	OWN	9/11/2017
860.1000, 860.1500	Residues in Berries Group 13 (524-622)	49634101	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Grape (524-622)	49634102	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Vegetables, Cucurbit, Group 9 (524-622)	49634104	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Vegetables, Fruiting, Group 8 (524-622)	49634105	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Vegetable, Leafy, except Brassica, Group 4 (524-622)	49634106	BASF	Joint Ownership with BASF	7/10/2015

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
860.1000, 860.1500	Residues in Vegetable, Root and Bulb Processed Fraction (524-622)	49634107	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Peanut (524-622)	49634108	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Vegetable, Legume, Group 6 (524-622)	49634109	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Vegetable, Brassica, head and stem, subgroup 5A (524-622)	49634110	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500	Residues in Nut, Tree, group 14 (524-622)	49634111	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500, 860.1520	Residues in Grape Process Fraction (524-622)	49634103	BASF	Joint Ownership with BASF	7/10/2015

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
860.1000, 860.1500, 860.1520	Residues in Tomato Processed Fraction (524-622)	49634112	BASF	Joint Ownership with BASF	7/10/2015
860.1000, 860.1500, 860.1520	Residues in Vegetable, Root and Tuber, subgroups 1A, 1B, 1C (524-622)	49634113	BASF	Joint Ownership with BASF	7/10/2015
860.1300	Soybean Metabolism (524-582)	47899523	Monsanto	OWN	4/21/2010
860.1300	Metabolism of Dicamba in Dicamba-Tolerant Cotton (524-582)	48728701	Monsanto	OWN	7/26/2012
860.1300	Corn Metabolism (524-617)	50268103	Monsanto	OWN	1/25/2018
860.1340	Residue Analytical Method (524-582)	47899523	Monsanto	OWN	4/21/2010

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
860.1340	Analytical Method in Cotton Matrices by LC/MS/MS (524-582)	48728702	Monsanto	OWN	7/26/2012
860.1340	Residue Soybean RAC (524-582)	47899501	Monsanto	OWN	4/21/2010
860.1340	Analytical Method in Corn Matrices by LC/MS/MS (524-617)	50268105	Monsanto	OWN	1/25/2018
860.1340, 860.1380	Freezer Storage Stability of Dicamba and its Metabolites (5-OH-dicamba and DCSA) in Plant Matrices	49836501	BASF	Joint Ownership with BASF	
860.1500	Amended Report Residue Soybean RAC (524-582)	48219901	Monsanto	OWN	10/20/2010
860.1500	Residue Soybean RAC (524-582)	47899524	Monsanto	OWN	4/21/2010

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
860.1500	Residues in Cotton RAC (524-582)	48728703	Monsanto	OWN	7/26/2012
860.1500, 860.1520	Residues in Corn RAC (524-617)	50268104	Monsanto	OWN	1/25/2018
860.1520	Residue Soybean RAC (524-582)	47899524	Monsanto	OWN	4/21/2010
860.1520	Amended Report Residue Soybean RAC (524-582)	48219901	Monsanto	OWN	10/20/2010
860.1520	Residues in Cotton RAC (524-582)	48728703	Monsanto	OWN	7/26/2012
860.1530	Stability of Dicamba Residues in DT Cotton (524-582)	48728704	Monsanto	OWN	7/26/2012

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Residue Decline in Forage (524-582)	48644205	Monsanto	OWN	2/27/2012
NA	Summary of Metabolism, Residue and Dietary Risk Assessment MON 87708 (524-582)	47899530	Monsanto	OWN	4/21/2010
NA	Amended Report: Summary of Metabolism, Residue and Dietary Risk Assessment MON 87708 (524-582)	48358004	Monsanto	OWN	2/24/2011
870.1100	Acute Oral Rat DCSA MON 52708 (524-582)	47899504	Monsanto	OWN	4/21/2010
870.1100	Acute Oral Rat DCGA MON 52724 (524-582)	47899505	Monsanto	OWN	4/21/2010
870.1100	Acute Oral Rat MON 119096 - Limit Test (524-617)	49195402	Monsanto	OWN	9/3/2013

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.1100	MON 119144: Acute Oral Toxicity Up and Down Procedure in Rats – Limit Test (524-AUT)	50290402	Monsanto	OWN	6/29/2017
870.1100	MON 100306: Acute Oral Toxicity Up and Down Procedure in Rats (524-AUO)	50290602	Monsanto	OWN	6/29/2017
870.1200	Acute Dermal Rat MON 119096 - Limit Test (524-617)	49195403	Monsanto	OWN	9/3/2013
870.1200	MON 119144: Acute Dermal Toxicity Study in Rats – Limit Test (524-AUT)	50290403	Monsanto	OWN	6/29/2017
870.1200	MON 100306: Acute Dermal Toxicity Study in Rats – Limit Test (524-AUO)	50290603	Monsanto	OWN	6/29/2017
870.1300	Acute Inhalation Rat MON 119096 - Limit Test (524-617)	49195404	Monsanto	OWN	9/3/2013

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.1300	MON 119144: Acute Inhalation Toxicity Study in Rats – Limit Test (524-AUT)	50290404	Monsanto	OWN	6/29/2017
870.1300	MON 100306: Acute Inhalation Toxicity Study in Rats – Limit Test (524-AUO)	50290604	Monsanto	OWN	6/29/2017
870.2400	Eye Irritation Rabbit MON 119096 (524-617)	49195405	Monsanto	OWN	9/3/2013
870.2400	MON 119144: Primary Eye Irritation Study in Rabbits (524-AUT)	50290405	Monsanto	OWN	6/29/2017
870.2400	MON 100306: Primary Eye Irritation Study in Rabbits (524-AUO)	50290605	Monsanto	OWN	6/29/2017
870.2500	Skin Irritation Rabbit MON 119096 (524-617)	49195406	Monsanto	OWN	9/3/2013

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.2500	MON 119144: Primary Skin Irritation Study in Rabbits (524-AUT)	50290406	Monsanto	OWN	6/29/2017
870.2500	MON 100306: Primary Skin Irritation Study in Rabbits (524-AUO)	50290606	Monsanto	OWN	6/29/2017
870.2600	Dermal Sensitization Guinea Pig MON 119096 (524-617)	49195407	Monsanto	OWN	9/3/2013
870.2600	MON119144: Dermal Sensitization Test in Guinea Pigs – Buehler Method (524-AUT)	50290407	Monsanto	OWN	6/29/2017
870.2600	MON 100306: Dermal Sensitization Test in Guinea Pigs - Buehler Method (524-AUO)	50290607	Monsanto	OWN	6/29/2017
870.3050	28 Day Oral Rat DCGA MON 52724 (524-582)	47899506	Monsanto	OWN	4/21/2010

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.3100	90 Day Oral Rat MON 11900 (524-582)	47899529	Monsanto	OWN	4/21/2010
870.3100	Amended Report: 90-Day Oral Rat MON 11900 (524-582)	48358001	Monsanto	OWN	2/24/2011
870.3150	90 Day Oral Dog DCSA MON 52708 (524-582)	47899508	Monsanto	OWN	4/21/2010
870.3150	Amended Report: 90-Day Oral Dog DCSA MON 52708 (524-582)	48358002	Monsanto	OWN	2/24/2011
870.3700	Developmental Toxicity Rabbit MON 52708 DCSA (524-582)	47899522	Monsanto	OWN	4/21/2010
870.3700	Pilot Devtox Rabbit MON 52708 DCSA (524-582)	47899521	Monsanto	OWN	4/21/2010

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.3700	Developmental Toxicity Rat MON 52724 DCGA (524-582)	47899520	Monsanto	OWN	4/21/2010
870.3700	Pilot Devtox Rat DCSA MON 52708 (524-582)	47899518	Monsanto	OWN	4/21/2010
870.3700	Developmental Toxicity Rat DCSA MON 52708 (524-582)	47899519	Monsanto	OWN	4/21/2010
870.3800	Reproduction, 2-Generation Rat DCSA MON 52708 (524-582)	47899517	Monsanto	OWN	4/21/2010
870.4100	Chronic Toxicity Rat DCSA MON 52708 (524-582)	47899516	Monsanto	OWN	4/21/2010
870.4300	24-Month Oral Combined Chronic/Carcinogenicity Rat DCSA MON 52708 (524-582)	48358003	Monsanto	OWN	2/24/2011

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.5100	in vivo Mouse Micronucleus DCSA MON 52708 (524-582)	47899511	Monsanto	OWN	4/21/2010
870.5100	AMES Assay DCSA MON 52708 (524-582)	47899509	Monsanto	OWN	4/21/2010
870.5100	AMES Assay DCGA MON 52724 (524-582)	47899514	Monsanto	OWN	4/21/2010
870.5100	AMES Assay MON 11900 (524-582)	47899525	Monsanto	OWN	4/21/2010
870.5300	CHO HGPRT DCSA MON 52708 (524-582)	47899512	Monsanto	OWN	4/21/2010
870.5300	CHO HGPRT MON 11900 (524-582)	47899526	Monsanto	OWN	4/21/2010

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Ingredient **Dicamba**

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870.5375	in vitro Chrom Aberration DCSA MON 52708 (524-582)	47899510	Monsanto	OWN	4/21/2010
870.5375	in vitro Chrom Aberration MON 11900 (524-582)	47899527	Monsanto	OWN	4/21/2010
870.5385	in vivo Chrom Aberration DCSA MON 52708 (524-582)	47899513	Monsanto	OWN	4/21/2010
870.5385	in vivo Chrom Aberration DCGA MON 52724 (524-582)	47899515	Monsanto	OWN	4/21/2010
870.5395	in vivo Mouse Micronucleus MON 11900 (524-582)	47899528	Monsanto	OWN	4/21/2010
870.6200	90 Day Oral Rat MON 11900 (524-582)	47899529	Monsanto	OWN	4/21/2010

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DATA MATRIX

Date: August 11, 2020	**EPA Reg. No./File Symbol:** 264-RERN
Applicant's/Registrant's Name & Address: Bayer CropScience LP, 801 Pennsylvania Ave, NW – Suite 745, Washington, D.C. 20004	**Product**: XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
870.6200	Amended Report: 90-Day Oral Rat MON 11900 (524-582)	48358001	Monsanto	OWN	2/24/2011
870.7485	Metabolism - Rat DCSA MON 52708 (524-582)	47899502	Monsanto	OWN	4/21/2010
870.7485	PK Rat DCSA MON 52708 (524-582)	47899503	Monsanto	OWN	4/21/2010
NA	Dietary Risk Assessment (524-582)	48728705	Monsanto	OWN	7/26/2012
NA	Efficacy Report - DT Soybean (524-582)	47899531	Monsanto	OWN	4/21/2010
NA	Reduced Risk Rationale - DT Soybean (524-582)	48081301	Monsanto	OWN	4/21/2010

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Reduced Risk Rationale - DGT Cotton (524-582)	48728706	Monsanto	OWN	7/26/2012
NA	Summary and Evaluation of Patent Database Search for Dicamba (524-617)	50103901	Monsanto	OWN	12/2/2016
NA	Environmental Fate, Ecological Risk and Human Risk Assessments: Existing Assessments of Dicamba Acid and Salts Support Dicamba Ethanolamine Formulation (524-AUT)	50290413	Monsanto	OWN	6/29/2017
NA	Conditions of Registration for M1768 Herbicide: 2018 Report of the 2017 Season (524-617)	50493201	Monsanto	OWN	1/12/2018
NA	Benefits Document for Amended Dicamba Use in Corn with XtendFlex (524-617)	50268101	Monsanto	OWN	1/25/2018
NA	2017 Soybean and Cotton Yields: Nationwide and in Particular States (524-617)	50639401	Monsanto	OWN	7/26/2018

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Product:
XtendiMax With VaporGrip Technology (M1768 Herbicide)

Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Benefits and Public Interest Findings for Registration of Dicamba Formulations for Use On Dicamba and Glyphosate Tolerant Crops (524-617)	50701001	Monsanto	OWN	10/12/2018
NA	Conditions of Registration for M1768 Herbicide: 2019 Report of the 2018 Season (524-617)	50758801	Monsanto	OWN	1/15/2019
NA	Potential Effects of Clarity + Roundup PowerMax on Soybean Plants when Applied at Low Application Rates in the Field in Mississippi (524-617)	51017504	Monsanto	OWN	1/15/2020
NA	Potential Effects of Clarity + Roundup PowerMax on Soybean Plants when Applied at Low Application Rates in the Field in Illinois (524-617)	51017505	Monsanto	OWN	1/15/2020
NA	Potential Effects of Clarity + Roundup PowerMax on Soybean Plants when Applied at Low Application Rates in the Field in Missouri (524-617)	51017506	Monsanto	OWN	1/15/2020
NA	Determination of the Relative Dicamba Volatility of MON 76980 Under Various Environmental Conditions in Closed Dome Systems (524-617)	51017509	Monsanto	OWN	1/15/2020

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Summary of pH Data from the Water Quality Portal (WQP) Database in 34 States (524-617)	51017510	Monsanto	OWN	1/15/2020
NA	Evaluation of Existing Tank Mix pH and Volatility Potential (as Measured in a Closed Dome) Data (524-617)	51017511	Monsanto	OWN	1/15/2020
NA	Conditions of Registration for M1768 Herbicide: 2020 Report of the 2019 Season (524-617)	51017512	Monsanto	OWN	1/15/2020
NA	Supplemental Information: Data files for studies conducted to meet terms and conditions of M1768 Herbicide registration	51068201	Monsanto	OWN	2/21/2020
NA	Effects to trees from foliar application of dicamba Clarity® formulation – Final Report	51068202	Monsanto	OWN	2/21/2020
NA	Summary of studies conducted or supported by Monsanto to support re-registration of M1768 (EPA Reg. No. 524-617)	51038601	Monsanto	OWN	3/2/2020

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Supplemental Information: Additional data files for studies conducted to meet terms and conditions of M1768 Herbicide registration	51091001	Monsanto	OWN	3/20/2020
NA	Bayer Response to Question on Humidome Study (MRID 51017509) for Terms and Conditions of M1768 Herbicide Registration	51097701	Monsanto	OWN	3/27/2020
NA	Supplemental Information: Additional meteorological data files for studies conducted to meet terms and conditions of M1768 Herbicide registration	51111801	Monsanto	OWN	4/3/2020
NA	Off-target movement assessment of a spray solution containing MON 76980 + MON 79789 + Intact + MON 51817 - Illinois (524-617)	51111901	Monsanto	OWN	4/6/2020
NA	Summary of Studies Conducted with MON 51817 in XtendiMax with VaporGrip Technology Tank Mixtures (524-617)	51134101	Monsanto	OWN	5/1/2020
NA	Bibliography of MON 51817 Spray Drift and Volatility Data (524-617)	51134102	Monsanto	OWN	5/1/2020

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Ingredient **Dicamba**

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	Summary of Submissions: Support for Registration of XtendiMax®	51208201	Bayer	OWN	7/23/2020
NA	Reference List of Nineteen VaporGrip Xtra® Volatility Studies	51226701	Bayer	OWN	8/7/2020
NA	Summary of the Relative Volatility of Dicamba Tank Mixes With and Without MON 51817 in the Humidome	51226801	Bayer	OWN	This submission
NA	March 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50793901	Monsanto	OWN	3/1/2019
NA	April 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50824301	Monsanto	OWN	4/1/2019
NA	May 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50842901	Monsanto	OWN	4/30/2019

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	May 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50868101	Monsanto	OWN	5/31/2019
NA	June 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50887701	Monsanto	OWN	6/28/2019
NA	July 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50895301	Monsanto	OWN	7/31/2019
NA	August 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50933001	Monsanto	OWN	8/29/2019
NA	September 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50956001	Monsanto	OWN	10/1/2019
NA	October 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	50978801	Monsanto	OWN	11/1/2019

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Date Submitted
NA	November 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	51011201	Monsanto	OWN	11/25/2019
NA	December 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	51024701	Monsanto	OWN	12/19/2019
NA	December 31, 2019 Report – Inquiries of Potential Damage to Non-Target Vegetation	51051501	Monsanto	OWN	2/2/2020
NA	January 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51051502	Monsanto	OWN	2/2/2020
NA	February 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51068301	Monsanto	OWN	2/28/2020
NA	March 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51097601	Monsanto	OWN	3/31/2020

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NA	April 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51133601	Monsanto	OWN	4/28/2020
NA	May 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51168301	Monsanto	OWN	5/27/2020
NA	June 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51195501	Monsanto	OWN	6/30/2020
N/A	July 2020 Report – Inquiries of Potential Damage to Non-Target Vegetation	51220101	Bayer	OWN	7/30/2020

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