Chemical:
MRID:
PC Code:
Plot:
Guideline:

Application Rate (lbs. a.i./A)

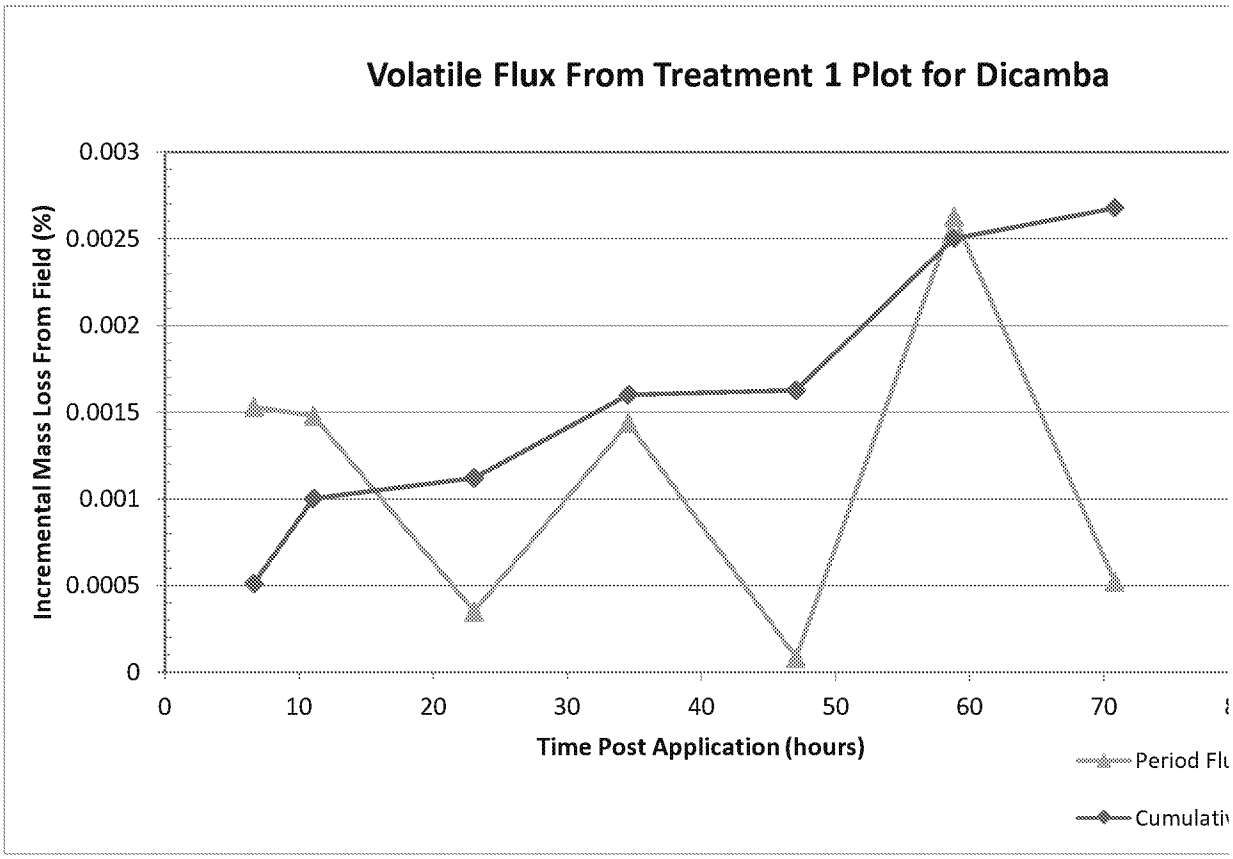
Period
1
2
3
4
5
6
7

Date and time from Table 13, p. 63 of the study report.
Reasoning from Table 24, p. 78 of the study report.
Sampling period and time post application calculated in accompanying spreadsheet 128931_51134103_DER-FATE_835.

Dicamba DGA
51134103
128931
Treatment 1
835.8100

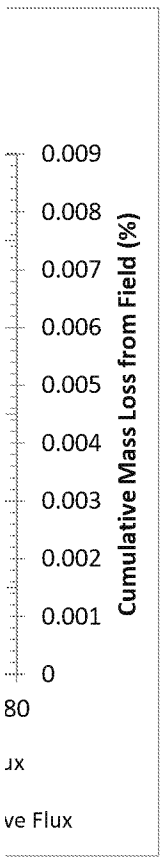
0.5

Date/Time	Sampling Period (hrs.)	Time Post Application (hrs.)	Flux ($\mu g/m^2 \cdot s$)	Period % of Applied
5/6, 9:05 - 15:23	6.30	6.62	0.000038	0.00153
5/6, 14:45 - 19:51	5.10	11.08	0.000045	0.00148
5/6-7, 18:50 - 7:49	12.98	23.05	0.000004	0.00035
5/7, 7:06 - 19:20	12.23	34.57	0.000018	0.00144
5/7-8, 18:46 - 7:49	13.05	47.05	0.000001	0.00008
5/8, 7:06 - 19:38	12.53	58.87	0.000033	0.00263
5/8-9, 18:55 - 7:36	12.68	70.83	0.000006	0.00052



8100_7-22-20_Calc.xlsx

Cumulative % of Applied	Reasoning
0.00153	Slope
0.00301	Ratio of averages
0.00336	Slope
0.00480	Slope, no intercept
0.00488	Slope, no intercept
0.00751	Slope, no intercept
0.00803	Slope, no intercept



Chemical:	Dicamba DGA	Raw Air Conc.		
MRID:	51134103			Applicable for specific sampling methods
PC Code:	128931			
Plot:	Treatment 1			
Guideline:	835.8100			
	DICAMBA CONCENTRATION IN AIR TUBES (µg/m3)			
	Sample ID	**Measured Concentration (ng)**	**Sample ID (Back-Half)**	**Measured Concentration (Back-Half) (µg)**
0 - 6	A	0.1550	[#]	[#]
	B	0.3060	[#]	[#]
	C	0.0135	[#]	[#]
	D	0.0241	[#]	[#]
	E	0.0143	[#]	[#]
	F	0.0339	[#]	[#]
	G	ND	[#]	[#]
	H	0.0776	[#]	[#]
6 - 12	A	0.0657	[#]	[#]
	B	0.0038	[#]	[#]
	C	0.1090	[#]	[#]
	D	ND	[#]	[#]
	E	ND	[#]	[#]
	F	ND	[#]	[#]
	G	0.1480	[#]	[#]
	H	0.0392	[#]	[#]
12 - 24	A	0.1060	[#]	[#]
	B	0.1110	[#]	[#]
	C	0.0144	[#]	[#]
	D	0.0633	[#]	[#]
	E	0.0357	[#]	[#]
	F	0.0548	[#]	[#]
	G	ND	[#]	[#]
	H	0.0663	[#]	[#]
24 - 36	A	0.0709	[#]	[#]
	B	0.0936	[#]	[#]
	C	0.1730	[#]	[#]
	D	0.1740	[#]	[#]
	E	0.1440	[#]	[#]
	F	0.1360	[#]	[#]

				Raw Air Conc.			
Sample Collection Start Time (Local Time)	**Sample Collection Stop Time (Local Time)**	**Start Flow Rate (L/min)**	**End Flow Rate (L/min)**	**Sampling Duration (Minutes)**	**Measured Air Concentration (µg/m^3)**	**Measured Air Concentration (Back-Half) (µg/m^3)**	**Percent of Front-Half Concentration**
9:05	14:42	3.005	3.120	337	0.000150	#VALUE!	#VALUE!
9:10	14:50	2.997	3.161	340	0.000292	#VALUE!	#VALUE!
9:14	14:56	3.000	3.122	342	0.000013	#VALUE!	#VALUE!
9:17	15:03	3.009	3.164	346	0.000023	#VALUE!	#VALUE!
9:20	15:08	3.008	3.047	348	0.000014	#VALUE!	#VALUE!
9:25	15:13	2.998	3.025	348	0.000032	#VALUE!	#VALUE!
9:30	15:18	2.998	3.171	348	#VALUE!	#VALUE!	#VALUE!
9:32	15:23	3.000	3.133	351	0.000072	#VALUE!	#VALUE!
14:45	18:50	3.006	2.929	245	0.000090	#VALUE!	#VALUE!
14:52	18:54	3.004	2.853	242	0.000005	#VALUE!	#VALUE!
14:58	18:59	2.999	2.915	241	0.000153	#VALUE!	#VALUE!
15:04	19:04	2.996	2.866	240	#VALUE!	#VALUE!	#VALUE!
15:09	19:10	3.001	2.893	241	#VALUE!	#VALUE!	#VALUE!
15:14	19:15	2.999	2.916	241	#VALUE!	#VALUE!	#VALUE!
15:19	19:48	2.999	2.846	269	0.000188	#VALUE!	#VALUE!
15:24	19:51	3.008	2.933	267	0.000049	#VALUE!	#VALUE!
18:50	7:04	3.002	2.930	734	0.000049	#VALUE!	#VALUE!
18:56	7:10	2.994	2.956	734	0.000051	#VALUE!	#VALUE!
19:00	7:20	2.996	2.972	740	0.000007	#VALUE!	#VALUE!
19:05	7:26	2.997	2.950	741	0.000029	#VALUE!	#VALUE!
19:11	7:31	2.997	2.947	740	0.000016	#VALUE!	#VALUE!
19:16	7:37	3.004	2.991	741	0.000025	#VALUE!	#VALUE!
19:48	7:44	2.995	2.991	716	#VALUE!	#VALUE!	#VALUE!
19:52	7:49	3.001	2.986	717	0.000031	#VALUE!	#VALUE!
7:06	18:44	3.001	3.072	698	0.000033	#VALUE!	#VALUE!
7:13	18:50	3.012	3.048	697	0.000044	#VALUE!	#VALUE!
7:22	18:55	3.008	3.055	693	0.000082	#VALUE!	#VALUE!
7:27	19:00	2.999	3.084	693	0.000083	#VALUE!	#VALUE!
7:33	19:04	3.000	3.018	691	0.000069	#VALUE!	#VALUE!
7:40	19:10	2.999	3.031	690	0.000065	#VALUE!	#VALUE!

Measured Air Concentration (Total) ($\mu g/m^3$)
0.000150
0.000292
0.000013
0.000023
0.000014
0.000032
0.000072
0.000090
0.000005
0.000153
0.000188
0.000049
0.000049
0.000051
0.000007
0.000029
0.000016
0.000025
0.000031
0.000033
0.000044
0.000082
0.000083
0.000069
0.000065

	G	0.0012	[#]	[#]
	H	0.0013	[#]	[#]
36 - 48	A	ND	[#]	[#]
	B	0.0933	[#]	[#]
	C	ND	[#]	[#]
	D	0.0056	[#]	[#]
	E	0.0790	[#]	[#]
	F	0.0156	[#]	[#]
	G	ND	[#]	[#]
	H	ND	[#]	[#]
48 - 60	A	0.0834	[#]	[#]
	B	0.1510	[#]	[#]
	C	0.0593	[#]	[#]
	D	0.2130	[#]	[#]
	E	0.1860	[#]	[#]
	F	0.1710	[#]	[#]
	G	0.2160	[#]	[#]
	H	0.1290	[#]	[#]
60 - 72	A	0.1730	[#]	[#]
	B	0.0682	[#]	[#]
	C	0.1050	[#]	[#]
	D	0.0502	[#]	[#]
	E	0.0342	[#]	[#]
	F	0.0393	[#]	[#]
	G	0.0735	[#]	[#]
	H	0.0894	[#]	[#]
Sample start and end times from Table 23, pp. 75-77 of the study report.				
Sample concentrations from Appendix A, Table 7, pp. 133-134 of the study report.				
Flow rates from Appendix F, pp. 406-408 of the study report.				

7:46	19:17	2.996	3.017	691	0.000029	#VALUE!	#VALUE!
7:51	19:20	3.006	3.010	689	0.000001	#VALUE!	#VALUE!
18:46	7:05	2.999	2.889	739	#VALUE!	#VALUE!	#VALUE!
18:52	7:11	2.996	2.905	739	0.000043	#VALUE!	#VALUE!
18:56	7:18	3.004	2.922	742	#VALUE!	#VALUE!	#VALUE!
19:01	7:25	3.004	2.915	744	0.000003	#VALUE!	#VALUE!
19:06	7:31	2.996	2.936	745	0.000036	#VALUE!	#VALUE!
19:11	7:37	3.009	2.944	746	0.000007	#VALUE!	#VALUE!
19:17	7:43	3.000	2.955	746	#VALUE!	#VALUE!	#VALUE!
19:21	7:49	3.001	2.969	748	#VALUE!	#VALUE!	#VALUE!
7:06	18:53	3.003	3.162	707	0.000038	#VALUE!	#VALUE!
7:13	19:38	2.997	3.109	745	0.000066	#VALUE!	#VALUE!
7:19	19:32	2.997	3.113	733	0.000026	#VALUE!	#VALUE!
7:26	19:24	3.003	3.143	718	0.000097	#VALUE!	#VALUE!
7:32	19:19	3.000	3.102	707	0.000086	#VALUE!	#VALUE!
7:38	19:11	2.995	3.090	693	0.000081	#VALUE!	#VALUE!
7:44	19:04	2.998	3.117	680	0.000104	#VALUE!	#VALUE!
7:51	18:59	2.998	3.114	668	0.000063	#VALUE!	#VALUE!
18:55	7:16	3.002	2.865	741	0.000080	#VALUE!	#VALUE!
19:41	7:12	2.993	2.865	691	0.000034	#VALUE!	#VALUE!
19:33	7:36	3.008	2.951	723	0.000049	#VALUE!	#VALUE!
19:27	7:33	3.040	2.926	726	0.000023	#VALUE!	#VALUE!
19:21	7:30	3.002	2.873	729	0.000016	#VALUE!	#VALUE!
19:13	7:25	2.995	2.875	732	0.000018	#VALUE!	#VALUE!
19:05	7:21	3.002	2.880	736	0.000034	#VALUE!	#VALUE!
19:01	7:18	2.995	2.857	737	0.000041	#VALUE!	#VALUE!

Raw Air Conc.
0.000029
0.000001
0.000043
0.000003
0.000036
0.000007
0.000038
0.000066
0.000026
0.000097
0.000086
0.000081
0.000104
0.000063
0.000080
0.000034
0.000049
0.000023
0.000016
0.000018
0.000034
0.000041

Chemical:	Dicamba DGA
MRID:	51134103
PC Code:	128931
Plot:	Treatment 1
Guideline:	835.8100

Treatment 1 Plot	
Sample Periods	6
Day	
Hours	
DTG	
Fortification Level (µg)	**Percer**
0	NA
0.003	87%
0.01	99%
0.06	92%

NA indicate not applicable.
Reviewer calculated.

PUF Sample Results (ng/PUF; Appendix A, Table 10, p. 138 of the study report).

0	0.200
0.003	2.62
0.01	9.86
0.06	54.9

Reviewer calculated percent recoveries.

0	NA
0.003	87%
0.01	99%
0.06	92%

6	6	12	12	12
nt Recovery (%)				
NA	NA	NA	NA	NA
88%	86%	89%	87%	87%
93%	93%	96%	93%	95%
97%	95%	102%	100%	100%

ND	ND	ND	ND	ND
2.64	2.57	2.66	2.62	2.60
9.25	9.29	9.57	9.28	9.51
58.0	56.7	61.3	59.9	60.2

NA	NA	NA	NA	NA
88%	86%	89%	87%	87%
93%	93%	96%	93%	95%
97%	95%	102%	100%	100%

Chemical: Dicamba DGA
MRID: 51134103
PC Code: 128931
Plot: Treatment 1
Guideline: 835.8100

Treatment 1 Plot				Air Concentrations (µg/m
Sample Periods	1	2	3	4
Day	1	1	1 & 2	2
Hours	0 - 6	6 - 12	12 - 24	24 - 36
DTG	5/6, 9:05 - 15:23	5/6, 14:45 - 19:51	5/6-7, 18:50 - 7:49	5/7, 7:06 - 19:20
Sampler				
A	0.000150185	9.03667E-05	4.86899E-05	3.34516E-05
B	0.000292303	5.41839E-06	5.08323E-05	4.43201E-05
C	1.28957E-05	0.000152953	6.52127E-06	8.23484E-05
D	2.2567E-05	0	2.87288E-05	8.25521E-05
E	1.35729E-05	0	1.62326E-05	6.92568E-05
F	3.23473E-05	0	2.46719E-05	6.53736E-05
G	0	0.000188259	0	2.94586E-05
H	7.20961E-05	4.94248E-05	3.08898E-05	6.41733E-07

m^3)		
5	6	7
2 & 3	3	3 & 4
36 - 48	48 - 60	60 - 72
5/7-8, 18:46 - 7:49	5/8, 7:06 - 19:38	5/8-9, 18:55 - 7:36
0	3.82687E-05	7.95869E-05
4.27899E-05	6.63887E-05	3.36967E-05
0	2.64813E-05	4.87425E-05
2.56146E-06	9.65367E-05	2.318E-05
3.57519E-05	8.62286E-05	1.59706E-05
7.02554E-06	8.11021E-05	1.82925E-05
0	0.000103891	3.39558E-05
0	6.31917E-05	4.14568E-05

Note: Measured air concentrations should be corrected for low field spike recoveries <90 percent.

Chemical:	Dicamba DGA
MRID:	51134103
PC Code:	128931
Plot:	Treatment 1
Guideline:	835.8100

Plot Treatment 1

Sampler	1			2			3
	Model	Measured		Model	Measured		Model
A	0.004716	0.000150185	A	0.000418	9.03667E-05	A	0.008443
B	0.005557	0.000292303	B	0.001506	5.41839E-06	B	0.01073
C	0.000402	1.28957E-05	C	0.001108	0.000152953	C	0.005522
D	0.000261	2.2567E-05	D	0.00352	0	D	0.005255
E	0	1.35729E-05	E	0.00249	0	E	0.001752
F	0	3.23473E-05	F	0.00171	0	F	0.006585
G	0	0	G	0	0.000188259	G	0.006204
H	0.003686	7.20961E-05	H	0.000026	4.94248E-05	H	0.009607

0.037803265	5.40088E-06	-0.04112888	0.000116214	0.004190326
0.007407011	2.14255E-05	0.018481846	3.27927E-05	0.001993542
0.812780222	4.69699E-05	0.452167682	6.03569E-05	0.424084437
26.04789612	6	4.952256384	6	4.418193883

0.038983052	0	0.008603708	0	0.003867692
0.005343188	#N/A	0.019582999	#N/A	0.000673734
0.883777505	4.37154E-05	0.026834987	9.8278E-05	0.824804738
53.22930427	7	0.193024728	7	32.95541845

slope	0.037803265	-0.04112888	0.004190326
intercept	5.40088E-06	0.000116214	-2.51521E-06
stderr (slope)	0.007407011	0.018481846	0.001993542
stderr (intercept)	2.14255E-05	3.27927E-05	1.44745E-05
DOF (slope w/ intercept)	6	6	6
slope w/ intercept sig?	Yes	Yes	Yes
intercept sig?	No	Yes	Yes
intercept < 25th %?	Yes	No	Yes
slope no intercept	0.038983052	0.008603708	0.003867692
stderr (slope no intercept)	0.005343188	0.019582999	0.000673734
DOF (slope no intercept)	7	7	7
slope no intercept sig?	Yes	No	Yes
flux	37.80	45.13	4.19
reasoning	Slope	Ratio of averages	Slope

Modeled air concentrations from Table 23, pp. 75-77 of the study report.

Air Concentrations During Sampling Periods ($\mu g/m^3$)

3		4			5			6
Measured		Model	Measured		Model	Measured		Model
4.86899E-05	A	0.001578	3.34516E-05	A	0.011648	0	A	0.001682
5.08323E-05	B	0.001735	4.43201E-05	B	0.015275	4.27899E-05	B	0.002435
6.52127E-06	C	0.000545	8.23484E-05	C	0.007976	0	C	0.001133
2.87288E-05	D	0.002181	8.25521E-05	D	0.004588	2.56146E-06	D	0.002977
1.62326E-05	E	0.002314	6.92568E-05	E	0	3.57519E-05	E	0.002085
2.46719E-05	F	0.00399	6.53736E-05	F	0.00304	7.02554E-06	F	0.002719
0	G	0.002053	2.94586E-05	G	0.00541	0	G	0.00034
3.08898E-05	H	0.003122	6.41733E-07	H	0.013774	0	H	0.001398

LINEST Excel Function Output (Slope w/ Intercept)

-2.51521E-06	-0.007256593	6.68155E-05	3.35682E-05	1.07572E-05	0.005450091
1.44745E-05	0.011086226	2.65232E-05	0.001332752	1.23045E-05	0.012412114
1.49071E-05	0.066648745	3.02198E-05	0.00010572	1.91225E-05	0.031133551
6	0.42844799	6	0.00063439	6	0.192803977

LINEST Excel Function Output (Slope No Intercept)

0	0.018304916	0	0.001007076	0	0.032627042
#N/A	0.005930865	#N/A	0.000719859	#N/A	0.006563842
1.3836E-05	0.576418787	4.01334E-05	0.218503485	1.87978E-05	0.779236138
7	9.525756535	7	1.957173658	7	24.70808818

CALDPR Flux Back-Calculation Summary

-0.007256593	3.35682E-05	0.005450091
6.68155E-05	1.07572E-05	6.01996E-05
0.011086226	0.001332752	0.012412114
2.65232E-05	1.23045E-05	2.50999E-05
6	6	6
No	No	No
Yes	No	Yes
No	No	No
0.018304916	0.001007076	0.032627042
0.005930865	0.000719859	0.006563842
7	7	7
Yes	Yes	Yes
18.30	1.01	32.63
Slope, no intercept	Slope, no intercept	Slope, no intercept

		7	
Measured		Model	Measured
3.82687E-05	A	0.01035	7.95869E-05
6.63887E-05	B	0.007291	3.36967E-05
2.64813E-05	C	0.000243	4.87425E-05
9.65367E-05	D	0.001161	2.318E-05
8.62286E-05	E	0.00015	1.59706E-05
8.11021E-05	F	0.000031	1.82925E-05
0.000103891	G	0	3.39558E-05
6.31917E-05	H	0.00789	4.14568E-05

6.01996E-05	0.003322265	2.55994E-05
2.50999E-05	0.001383734	7.32144E-06
2.89746E-05	0.48999202	1.59011E-05
6	5.764521792	6

0	0.006421667	0
#N/A	0.001714472	#N/A
3.75431E-05	0.667130393	2.56578E-05
7	14.02925545	7

0.003322265
2.55994E-05
0.001383734
7.32144E-06
6
Yes
Yes
No
0.006421667
0.001714472
7
Yes
6.42
Slope, no intercept