Chemical:
MRID:
PC Code:
Plot:
Guideline:

Calculation of sampling period times
Application start time:
Area of field (acres):
Application rate (lbs/acre):
Applied dicamba (kg):

Indirect Method Sampling Periods

Period
1
2
3
4
5
6
7
8
9
10
11
12
13

Data from Appendix D, Table 3, pp. 549-551 of the study report.

Central Mast (Integrated Horizontal Flux Method and Aerodynamic Method) Sampling Periods

Period
1
2
3
4
5
6
7
8

Dicamba
51017501
128931
Soybean
835.8100

6/22/2019 14:15	(Appendix B, Table 1, p. 123 of the study report)
25	(p. 13 of the study report)
0.5	(p. 18 of the study report)
5.670	(calculated)

Start Time	End Time	Duration (hours)	Start time after application (hours)
6/22/2019 14:51	6/22/2019 18:54	4.05	0.60
6/22/2019 18:12	6/23/2019 7:56	13.73	3.95
6/23/2019 7:19	6/23/2019 18:47	11.47	17.07
6/23/2019 18:17	6/24/2019 20:28	26.18	28.03
6/24/2019 18:56	6/25/2019 9:30	14.57	52.68
6/25/2019 8:10	6/25/2019 20:25	12.25	65.92
6/25/2019 19:05	6/26/2019 10:00	14.92	76.83
6/26/2019 8:07	6/26/2019 18:59	10.87	89.87
6/26/2019 18:20	6/27/2019 8:46	14.43	100.08
6/27/2019 7:39	6/27/2019 18:48	11.15	113.40
6/27/2019 18:12	6/28/2019 8:56	14.73	123.95
6/28/2019 7:59	6/28/2019 19:06	11.12	137.73
6/28/2019 18:07	6/29/2019 8:13	14.10	147.87

Start Time	End Time	Duration (hours)	Start time after application (hours)
6/22/2019 15:05	6/22/2019 18:07	3.03	0.83
6/22/2019 18:13	6/23/2019 7:26	13.22	3.97
6/23/2019 7:28	6/23/2019 18:24	10.93	17.22
6/23/2019 18:26	6/24/2019 19:07	24.68	28.18
6/24/2019 19:10	6/25/2019 8:46	13.60	52.92
6/25/2019 8:51	6/25/2019 19:15	10.40	66.60
6/25/2019 19:32	6/26/2019 7:58	12.43	77.28
6/26/2019 8:05	6/26/2019 18:26	10.35	89.83

End time after application (hours)
4.65
17.68
28.53
54.22
67.25
78.17
91.75
100.73
114.52
124.55
138.68
148.85
161.97

End time after application (hours)
3.87
17.18
28.15
52.87
66.52
77.00
89.72
100.18

9
10
11
12
13

Data from Appendix D, Table 2, pp. 546-548 of the study report.

6/26/2019 18:29	6/27/2019 7:44	13.25	100.23
6/27/2019 7:48	6/27/2019 18:46	10.97	113.55
6/27/2019 18:55	6/28/2019 8:05	13.17	124.67
6/28/2019 8:13	6/28/2019 18:08	9.92	137.97
6/28/2019 18:18	6/29/2019 7:58	13.67	148.05

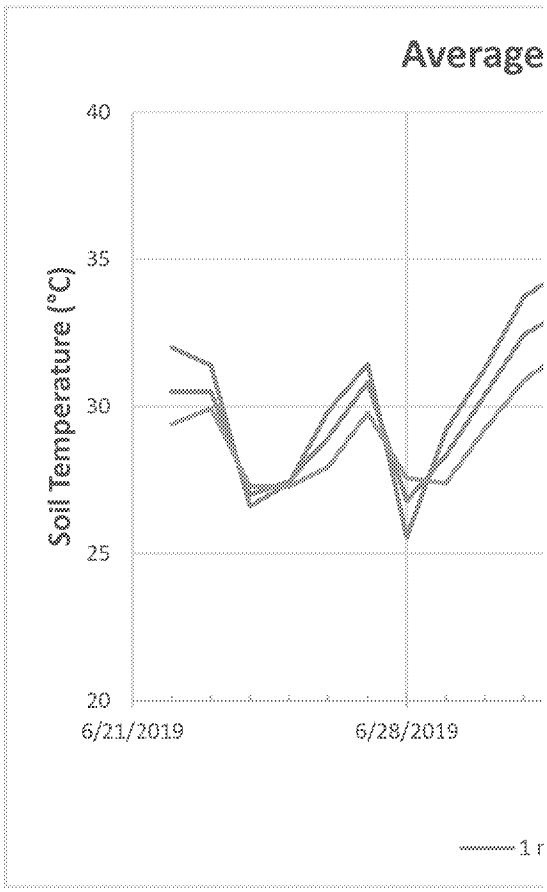
113.48
124.52
137.83
147.88
161.72

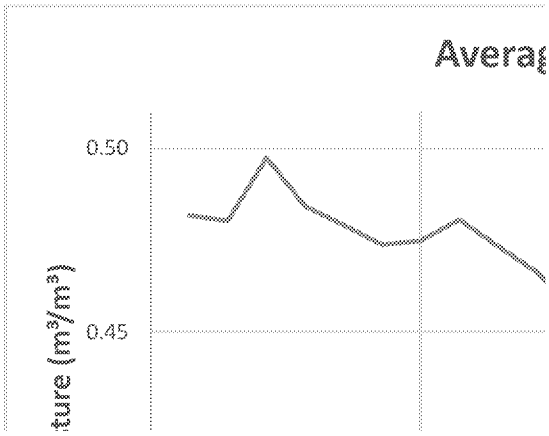
Chemical:	Dicamba
MRID:	51017501
PC Code:	128931
Plot:	Soybean
Guideline:	835.8100

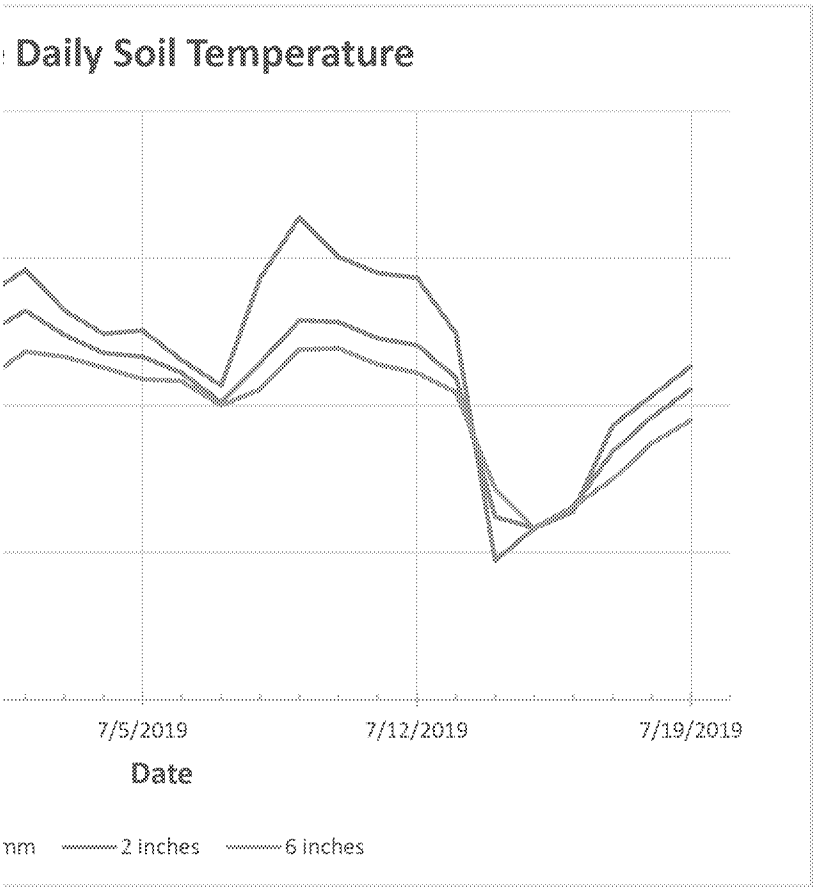
Data are average daily data from Appendix B, Table 13, pp. 139-140 of the study report.
Reviewer converted °F to °C.

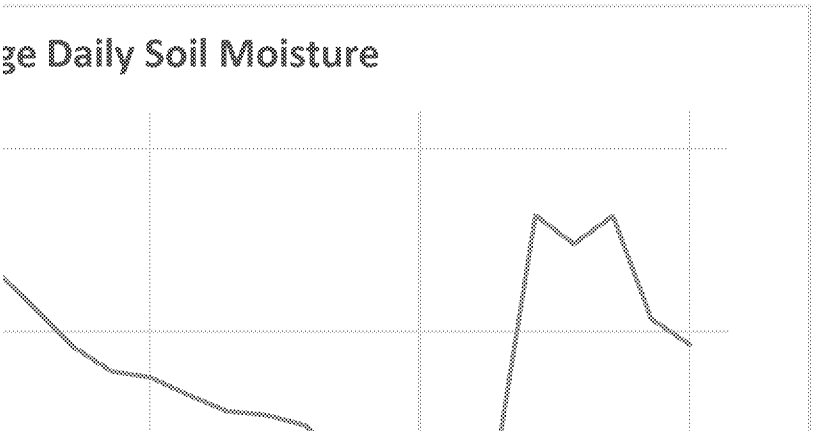
Date	Soil Temp at 1 mm (°C)	Soil Temp at 2 in (°C)
6/22/2019	32.0	30.5
6/23/2019	31.4	30.5
6/24/2019	26.6	27.0
6/25/2019	27.4	27.4
6/26/2019	29.8	28.9
6/27/2019	31.4	30.8
6/28/2019	25.6	26.8
6/29/2019	29.2	28.3
6/30/2019	31.3	30.4
7/1/2019	33.7	32.4
7/2/2019	34.6	33.2
7/3/2019	33.2	32.4
7/4/2019	32.4	31.8
7/5/2019	32.6	31.7
7/6/2019	31.6	31.1
7/7/2019	30.7	30.1
7/8/2019	34.3	31.4
7/9/2019	36.4	32.9
7/10/2019	35.1	32.8
7/11/2019	34.5	32.3
7/12/2019	34.3	32.1
7/13/2019	32.4	30.9
7/14/2019	24.7	26.2
7/15/2019	25.8	25.8
7/16/2019	26.4	26.6
7/17/2019	29.3	28.4
7/18/2019	30.3	29.6
7/19/2019	31.3	30.6

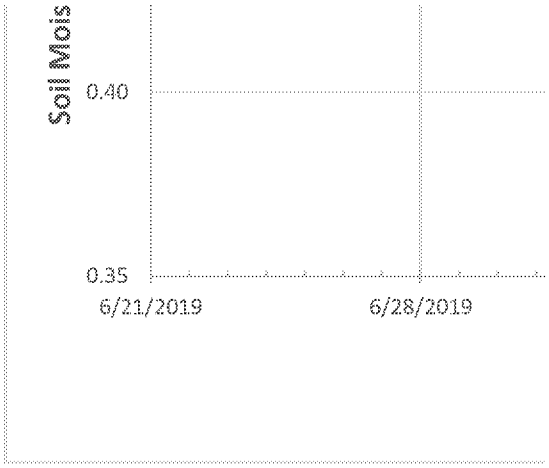
Soil Temp at 6 in (°C)	Soil Temp at 1 mm (°F)	Soil Temp at 2 in (°F)	Soil Temp at 6 in (°F)	Soil Moist at 2 in (m^3/m^3)
29.4	89.6	86.9	84.9	0.482
29.9	88.5	86.9	85.9	0.480
27.3	79.9	80.6	81.1	0.497
27.3	81.3	81.4	81.1	0.484
27.9	85.7	84.1	82.3	0.479
29.8	88.6	87.5	85.6	0.474
27.6	78.0	80.2	81.6	0.475
27.4	84.5	83.0	81.3	0.481
29.2	88.3	86.7	84.6	0.473
30.9	92.7	90.4	87.6	0.467
31.8	94.3	91.8	89.3	0.457
31.7	91.8	90.3	89.0	0.446
31.3	90.4	89.2	88.3	0.439
30.9	90.6	89.0	87.6	0.438
30.8	88.8	88.0	87.5	0.433
30.0	87.2	86.2	86.0	0.428
30.6	93.8	88.6	87.0	0.427
31.9	97.5	91.2	89.4	0.425
31.9	95.1	91.1	89.5	0.417
31.4	94.1	90.1	88.5	0.410
31.1	93.8	89.7	88.0	0.401
30.4	90.4	87.7	86.8	0.391
27.2	76.5	79.2	80.9	0.416
25.8	78.5	78.5	78.5	0.482
26.6	79.5	79.8	79.8	0.474
27.5	84.8	83.2	81.5	0.482
28.7	86.6	85.3	83.7	0.454
29.5	88.4	87.0	85.1	0.447

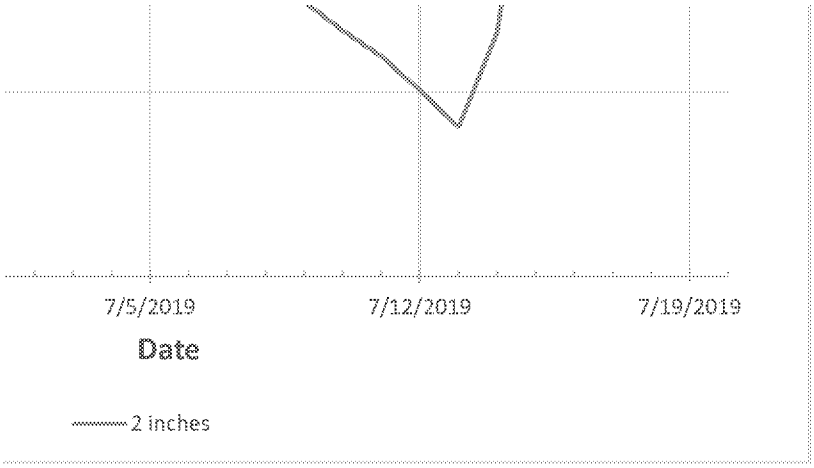




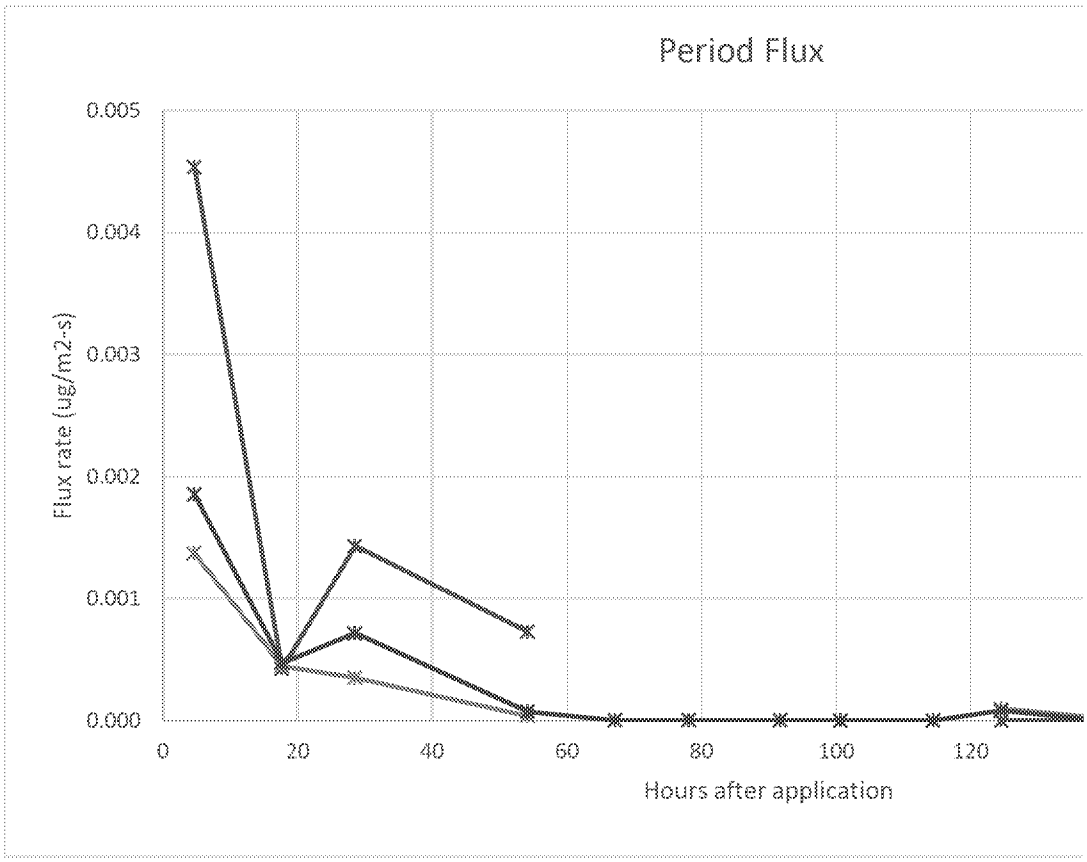

Daily Soil Temperature
7/5/2019
7/12/2019
7/19/2019
Date
nm
2 inches
6 inches

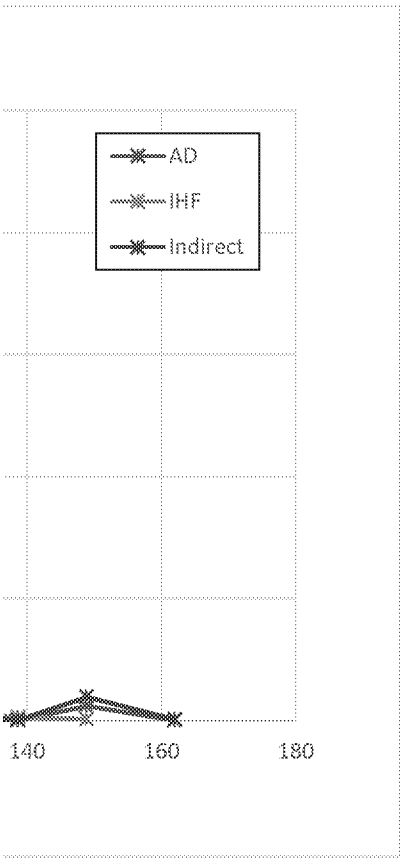

ge Daily Soil Moisture


Soil Mois
0.40
0.35
6/21/2019
6/28/2019


7/5/2019
7/12/2019
7/19/2019
Date
2 inches

Period	Date/Time	Time Post Application (hrs.)	Indirect Flux (mg/m2·s)	AD Flux (mg/m2·s)	IHF Flux (mg/m2·s)
1	6/22, 14:51 - 18:54	4.65	1.85E-03	4.53E-03	1.37E-03
2	6/22-23, 18:12 - 7:56	17.68333333	4.72E-04	4.25E-04	4.44E-04
3	6/23, 7:19 - 18:47	28.53333333	7.16E-04	1.43E-03	3.48E-04
4	6/23-24, 18:17 - 20:28	54.21666667	7.21E-05	7.28E-04	3.50E-05
5	6/24-25, 18:56 - 9:30	67.25	0.00E+00		
6	6/25, 8:10 - 20:25	78.16666667	0.00E+00		
7	6/25-26, 19:05 - 10:00	91.75	0.00E+00		
8	6/26, 8:07 - 18:59	100.7333333	0.00E+00		
9	6/26-27, 18:20 - 8:46	114.5166667	0.00E+00		
10	6/27, 7:39 - 18:48	124.55	8.00E-05	6.30E-07	9.67E-05
11	6/27-28, 18:12 - 8:56	138.6833333	5.36E-06	4.00E-07	2.53E-05
12	6/28, 7:59 - 19:06	148.85	1.95E-04	1.19E-04	1.08E-05
13	6/28-29, 18:07 - 8:13	161.9666667	1.08E-05	0.00E+00	


Period Flux
0.005
0.004
0.003
0.002
0.001
0.000
Flux rate (ug/m2-s)
0
20
40
60
80
100
120
Hours after application


AD
IHF
Indirect
140
160
180