Chemical:
MRID:
PC Code:
Plot:
Guideline:

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

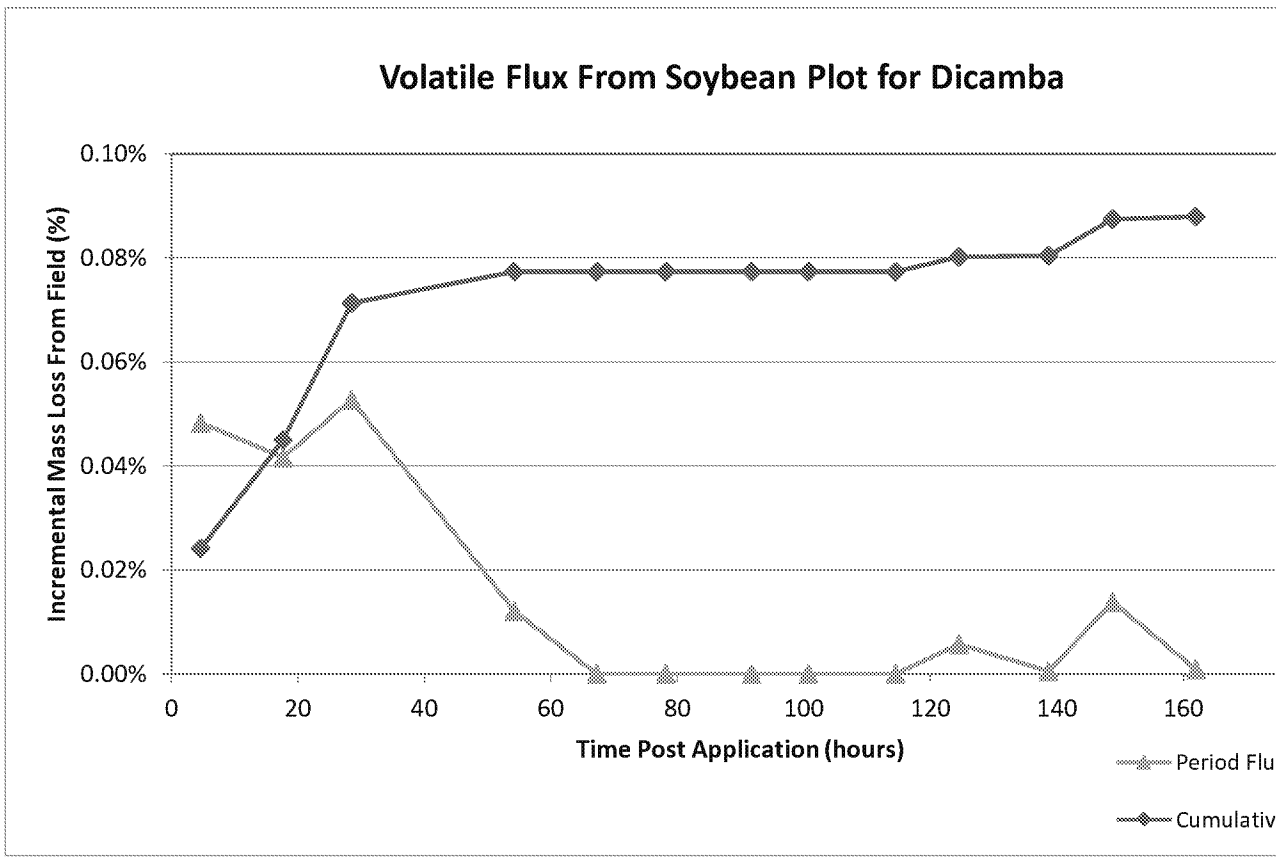
| Period |
|---|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

Date and time from Appendix D, Table 3, pp. 549-551 of the study report.

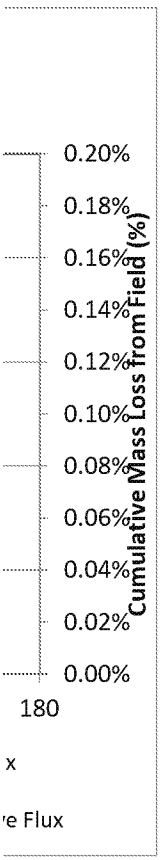
Dicamba
51017501
128931
Soybean
835.8100

0.5

| Date/Time | Sampling Period (hrs.) | Time Post Application (hrs.) | Flux ($\mu g/m^2 \cdot s$) | Period % of Applied |
|---|---|---|---|---|
| 6/22, 14:51 - 18:54 | 4.05 | 4.65 | 0.001855 | 0.00048 |
| 6/22-23, 18:12 - 7:56 | 13.73 | 17.68 | 0.000472 | 0.00042 |
| 6/23, 7:19 - 18:47 | 11.47 | 28.53 | 0.000716 | 0.00053 |
| 6/23-24, 18:17 - 20:28 | 26.18 | 54.22 | 0.000072 | 0.00012 |
| 6/24-25, 18:56 - 9:30 | 14.57 | 67.25 | 0.000000 | 0.00000 |
| 6/25, 8:10 - 20:25 | 12.25 | 78.17 | 0.000000 | 0.00000 |
| 6/25-26, 19:05 - 10:00 | 14.92 | 91.75 | 0.000000 | 0.00000 |
| 6/26, 8:07 - 18:59 | 10.87 | 100.73 | 0.000000 | 0.00000 |
| 6/26-27, 18:20 - 8:46 | 14.43 | 114.52 | 0.000000 | 0.00000 |
| 6/27, 7:39 - 18:48 | 11.15 | 124.55 | 0.000080 | 0.00006 |
| 6/27-28, 18:12 - 8:56 | 14.73 | 138.68 | 0.000005 | 0.00001 |
| 6/28, 7:59 - 19:06 | 11.12 | 148.85 | 0.000195 | 0.00014 |
| 6/28-29, 18:07 - 8:13 | 14.10 | 161.97 | 0.000011 | 0.00001 |



| Cumulative % of Applied | Reasoning |
|---|---|
| 0.00048 | Slope |
| 0.00090 | Slope, no intercept |
| 0.00143 | Slope |
| 0.00155 | Slope, no intercept |
| 0.00155 | NA |
| 0.00155 | NA |
| 0.00155 | NA |
| 0.00155 | NA |
| 0.00155 | NA |
| 0.00160 | Slope, no intercept |
| 0.00161 | Slope, no intercept |
| 0.00175 | Slope, no intercept |
| 0.00176 | Slope, no intercept |



Reasoning from Appendix D, Table 6, p. 555 of the study report.
Sampling period and time post application calculated in accompanying spreadsheet 128931_51017501_DER-FATE_835.

8100_3-11-20_Calc.xlsx

| | | | | |
|---|---|---|---|---|
| Chemical: | Dicamba | Raw Air Conc. | | |
| MRID: | 51017501 | | | Applicable for specific sampling methods |
| PC Code: | 128931 | | | |
| Plot: | Soybean | | | |
| Guideline: | 835.8100 | | | |
| | | | | |
| | **DICAMBA CONCENTRATION IN AIR TUBES (µg/m3)** | | | |
| | | | | |

| Time Period Following Application | Sample ID | Measured Concentration (ng) | Sample ID (Back-Half) | Measured Concentration (Back-Half) (µg) |
|---|---|---|---|---|
| 0 - 6 | A | 1.002 | NA | 0.000 |
| | B | 4.900 | NA | 0.000 |
| | C | 4.664 | NA | 0.000 |
| | D | 5.054 | NA | 0.000 |
| | E | 0.236 | NA | 0.000 |
| | F | 0.246 | NA | 0.000 |
| | G | 0.269 | NA | 0.000 |
| | H | 0.691 | NA | 0.000 |
| 12 - 24 | A | 6.428 | NA | 0.000 |
| | B | 10.653 | NA | 0.000 |
| | C | 2.746 | NA | 0.000 |
| | D | 2.763 | NA | 0.000 |
| | E | 0.413 | NA | 0.000 |
| | F | 0.636 | NA | 0.000 |
| | G | 0.601 | NA | 0.000 |
| | H | 4.493 | NA | 0.000 |
| 24 - 36 | A | 0.796 | NA | 0.000 |
| | B | 5.345 | NA | 0.000 |
| | C | 3.765 | NA | 0.000 |
| | D | 1.323 | NA | 0.000 |
| | E | 0.228 | NA | 0.000 |
| | F | 0.286 | NA | 0.000 |
| | G | 0.208 | NA | 0.000 |
| | H | 0.591 | NA | 0.000 |
| 36 - 48 | A | 0.824 | NA | 0.000 |
| | B | 0.538 | NA | 0.000 |
| | C | 0.685 | NA | 0.000 |
| | D | 0.601 | NA | 0.000 |

| | | | | 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 ($\mu g/m^3$)** | **Measured Air Concentration (Back-Half) ($\mu g/m^3$)** | **Percent of Front-Half Concentration** |
| 14:53 | 18:10 | 2.992 | 2.985 | 197 | 0.0017 | 0.0000 | 0.00% |
| 14:56 | 18:21 | 3.009 | 3.002 | 205 | 0.0080 | 0.0000 | 0.00% |
| 15:04 | 18:32 | 3.017 | 3.046 | 208 | 0.0074 | 0.0000 | 0.00% |
| 14:58 | 18:11 | 3.039 | 3.027 | 193 | 0.0086 | 0.0000 | 0.00% |
| 14:53 | 18:23 | 2.983 | 2.967 | 210 | 0.0004 | 0.0000 | 0.00% |
| 14:56 | 18:34 | 3.009 | 2.991 | 218 | 0.0004 | 0.0000 | 0.00% |
| 14:51 | 18:43 | 2.974 | 2.984 | 232 | 0.0004 | 0.0000 | 0.00% |
| 15:00 | 18:54 | 2.996 | 2.950 | 234 | 0.0010 | 0.0000 | 0.00% |
| 18:12 | 7:56 | 3.002 | 2.906 | 824 | 0.0026 | 0.0000 | 0.00% |
| 18:23 | 7:45 | 3.004 | 2.881 | 802 | 0.0045 | 0.0000 | 0.00% |
| 18:33 | 7:30 | 3.002 | 2.875 | 777 | 0.0012 | 0.0000 | 0.00% |
| 18:13 | 7:17 | 2.996 | 2.892 | 784 | 0.0012 | 0.0000 | 0.00% |
| 18:41 | 7:18 | 3.002 | 2.956 | 757 | 0.0002 | 0.0000 | 0.00% |
| 18:37 | 7:30 | 3.009 | 3.022 | 773 | 0.0003 | 0.0000 | 0.00% |
| 18:44 | 7:39 | 2.993 | 2.984 | 775 | 0.0003 | 0.0000 | 0.00% |
| 18:55 | 7:45 | 2.993 | 2.885 | 770 | 0.0020 | 0.0000 | 0.00% |
| 7:58 | 18:14 | 2.995 | 2.572 | 616 | 0.0005 | 0.0000 | 0.00% |
| 7:47 | 18:26 | 2.994 | 3.099 | 639 | 0.0027 | 0.0000 | 0.00% |
| 7:32 | 18:38 | 3.000 | 3.088 | 666 | 0.0019 | 0.0000 | 0.00% |
| 7:19 | 18:45 | 3.000 | 2.927 | 686 | 0.0007 | 0.0000 | 0.00% |
| 7:19 | 18:15 | 3.002 | 3.043 | 656 | 0.0001 | 0.0000 | 0.00% |
| 7:32 | 18:26 | 3.026 | 2.986 | 654 | 0.0001 | 0.0000 | 0.00% |
| 7:41 | 18:40 | 2.988 | 3.004 | 659 | 0.0001 | 0.0000 | 0.00% |
| 7:47 | 18:47 | 3.047 | 3.081 | 660 | 0.0003 | 0.0000 | 0.00% |
| 18:17 | 19:07 | 3.029 | 3.487 | 1490 | 0.0002 | 0.0000 | 0.00% |
| 18:27 | 18:54 | 2.995 | 2.917 | 1467 | 0.0001 | 0.0000 | 0.00% |
| 18:39 | 8:06 | 3.041 | 3.014 | 2247 | 0.0001 | 0.0000 | 0.00% |
| 18:45 | 20:28 | 2.970 | 2.922 | 1543 | 0.0001 | 0.0000 | 0.00% |

| Measured Air Concentration (Total) ($\mu g/m^3$) |
|---|
| 0.00170 |
| 0.00795 |
| 0.00740 |
| 0.00863 |
| 0.00038 |
| 0.00038 |
| 0.00039 |
| 0.00099 |
| 0.00264 |
| 0.00451 |
| 0.00120 |
| 0.00120 |
| 0.00018 |
| 0.00027 |
| 0.00026 |
| 0.00199 |
| 0.00046 |
| 0.00275 |
| 0.00186 |
| 0.00065 |
| 0.00011 |
| 0.00015 |
| 0.00011 |
| 0.00029 |
| 0.00017 |
| 0.00012 |
| 0.00010 |
| 0.00013 |

| | | | | |
|---|---|---|---|---|
| 36 - 48 | E | 0.533 | NA | 0.000 |
| | F | 0.415 | NA | 0.000 |
| | G | | NA | 0.000 |
| | H | | NA | 0.000 |
| 48 - 72 | A | 0.131 | NA | 0.000 |
| | B | 0.000 | NA | 0.000 |
| | C | 0.125 | NA | 0.000 |
| | D | 0.151 | NA | 0.000 |
| | E | 0.088 | NA | 0.000 |
| | F | 0.000 | NA | 0.000 |
| | G | 0.000 | NA | 0.000 |
| | H | 0.000 | NA | 0.000 |
| 72 - 84 | A | 0.093 | NA | 0.000 |
| | B | 0.000 | NA | 0.000 |
| | C | 0.151 | NA | 0.000 |
| | D | 0.139 | NA | 0.000 |
| | E | 0.000 | NA | 0.000 |
| | F | 0.093 | NA | 0.000 |
| | G | 0.000 | NA | 0.000 |
| | H | 0.000 | NA | 0.000 |
| 84 - 96 | A | 0.101 | NA | 0.000 |
| | B | 0.000 | NA | 0.000 |
| | C | 0.000 | NA | 0.000 |
| | D | 0.000 | NA | 0.000 |
| | E | 0.000 | NA | 0.000 |
| | F | 0.000 | NA | 0.000 |
| | G | 0.000 | NA | 0.000 |
| | H | 0.000 | NA | 0.000 |
| 96 - 108 | A | 0.217 | NA | 0.000 |
| | B | 0.140 | NA | 0.000 |
| | C | 0.118 | NA | 0.000 |
| | D | 0.132 | NA | 0.000 |
| | E | 0.000 | NA | 0.000 |
| | F | 0.000 | NA | 0.000 |
| | G | 0.000 | NA | 0.000 |
| | H | 0.105 | NA | 0.000 |
| 108 - 120 | A | 0.000 | NA | 0.000 |
| | B | 0.000 | NA | 0.000 |
| | C | 0.000 | NA | 0.000 |
| | D | 0.000 | NA | 0.000 |
| | E | 0.000 | NA | 0.000 |
| | F | 0.000 | NA | 0.000 |
| | G | 0.000 | NA | 0.000 |

| | | | | Raw | Air Conc. | | |
|---|---|---|---|---|---|---|---|
| 18:18 | 20:21 | 2.999 | 2.970 | 1568 | 0.0001 | 0.0000 | 0.00% |
| 18:28 | 20:12 | 2.987 | 2.963 | 1544 | 0.0001 | 0.0000 | 0.00% |
| | | 3.010 | | 0 | #DIV/0! | 0.0000 | 0.00% |
| 18:49 | 19:30 | 3.021 | | 1481 | 0.0000 | 0.0000 | 0.00% |
| 19:12 | 9:21 | 3.022 | 3.046 | 849 | 0.0001 | 0.0000 | 0.00% |
| 18:56 | 9:30 | 2.953 | 3.037 | 874 | 0.0000 | 0.0000 | 0.00% |
| | | | | 0 | #DIV/0! | 0.0000 | 0.00% |
| 20:30 | 8:15 | 2.950 | 2.895 | 705 | 0.0001 | 0.0000 | 0.00% |
| 20:25 | 8:24 | 2.987 | 3.046 | 719 | 0.0000 | 0.0000 | 0.00% |
| 20:14 | 8:31 | 2.955 | 3.063 | 737 | 0.0000 | 0.0000 | 0.00% |
| | | | | 0 | #DIV/0! | 0.0000 | 0.00% |
| 19:45 | 9:13 | 3.021 | 3.080 | 808 | 0.0000 | 0.0000 | 0.00% |
| 9:25 | 20:18 | 3.028 | 2.987 | 653 | 0.0000 | 0.0000 | 0.00% |
| 9:32 | 20:25 | 3.037 | 2.894 | 653 | 0.0000 | 0.0000 | 0.00% |
| 8:10 | 19:03 | 3.005 | 2.983 | 653 | 0.0001 | 0.0000 | 0.00% |
| 8:15 | 19:16 | 2.983 | 3.018 | 661 | 0.0001 | 0.0000 | 0.00% |
| 9:45 | 19:28 | 3.007 | 2.897 | 583 | 0.0000 | 0.0000 | 0.00% |
| 8:32 | 19:41 | 2.998 | 2.930 | 669 | 0.0000 | 0.0000 | 0.00% |
| 9:01 | 19:53 | 3.020 | 2.981 | 652 | 0.0000 | 0.0000 | 0.00% |
| 9:16 | 20:04 | 3.007 | 2.944 | 648 | 0.0000 | 0.0000 | 0.00% |
| 20:19 | 9:41 | 3.001 | 3.051 | 802 | 0.0000 | 0.0000 | 0.00% |
| 20:30 | 10:00 | 2.995 | 3.102 | 810 | 0.0000 | 0.0000 | 0.00% |
| 19:05 | 7:57 | 2.988 | 3.005 | 772 | 0.0000 | 0.0000 | 0.00% |
| 19:17 | 8:18 | 3.027 | 3.061 | 781 | 0.0000 | 0.0000 | 0.00% |
| 19:29 | 8:39 | 3.034 | 3.080 | 790 | 0.0000 | 0.0000 | 0.00% |
| 19:43 | 8:55 | 3.009 | 3.066 | 792 | 0.0000 | 0.0000 | 0.00% |
| 19:54 | 9:16 | 3.002 | 3.025 | 802 | 0.0000 | 0.0000 | 0.00% |
| 20:07 | 9:30 | 2.953 | 3.004 | 803 | 0.0000 | 0.0000 | 0.00% |
| 9:49 | 18:54 | 2.994 | 3.019 | 545 | 0.0001 | 0.0000 | 0.00% |
| 10:03 | 18:59 | 2.992 | 3.045 | 536 | 0.0001 | 0.0000 | 0.00% |
| 8:07 | 18:19 | 3.008 | 3.105 | 612 | 0.0001 | 0.0000 | 0.00% |
| 8:26 | 18:25 | 2.970 | 3.065 | 599 | 0.0001 | 0.0000 | 0.00% |
| 8:46 | 18:32 | 2.992 | 2.991 | 586 | 0.0000 | 0.0000 | 0.00% |
| 9:07 | 18:37 | 2.997 | 3.042 | 570 | 0.0000 | 0.0000 | 0.00% |
| 9:20 | 18:44 | 3.035 | 3.047 | 564 | 0.0000 | 0.0000 | 0.00% |
| 9:32 | 18:49 | 2.997 | 3.036 | 557 | 0.0001 | 0.0000 | 0.00% |
| 18:56 | 8:27 | 3.025 | 2.991 | 811 | 0.0000 | 0.0000 | 0.00% |
| 19:01 | 8:36 | 3.037 | 3.026 | 815 | 0.0000 | 0.0000 | 0.00% |
| 18:20 | 8:46 | 3.005 | 2.945 | 866 | 0.0000 | 0.0000 | 0.00% |
| 18:28 | 7:38 | 3.000 | 2.890 | 790 | 0.0000 | 0.0000 | 0.00% |
| 18:34 | 7:46 | 3.006 | 2.968 | 792 | 0.0000 | 0.0000 | 0.00% |
| 18:39 | 7:57 | 3.045 | 3.096 | 798 | 0.0000 | 0.0000 | 0.00% |
| 18:45 | 8:06 | 3.045 | 2.985 | 801 | 0.0000 | 0.0000 | 0.00% |

| Raw Air Conc. |
| --- |
| 0.00011 |
| 0.00009 |
| #DIV/0! |
| 0.00000 |
| 0.00005 |
| 0.00000 |
| #DIV/0! |
| 0.00007 |
| 0.00004 |
| 0.00000 |
| #DIV/0! |
| 0.00000 |
| 0.00005 |
| 0.00000 |
| 0.00008 |
| 0.00007 |
| 0.00000 |
| 0.00005 |
| 0.00000 |
| 0.00000 |
| 0.00004 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00013 |
| 0.00009 |
| 0.00006 |
| 0.00007 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00006 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |
| 0.00000 |

| | | | | |
|---|---|---|---|---|
| | H | Raw Air Conc. 0.000 | NA | 0.000 |
| 120 - 132 | A | 0.266 | NA | 0.000 |
| | B | 0.427 | NA | 0.000 |
| | C | 0.364 | NA | 0.000 |
| | D | 0.409 | NA | 0.000 |
| | E | 0.459 | NA | 0.000 |
| | F | 0.331 | NA | 0.000 |
| | G | 0.441 | NA | 0.000 |
| | H | 0.000 | NA | 0.000 |
| 132 - 144 | A | 0.375 | NA | 0.000 |
| | B | 0.356 | NA | 0.000 |
| | C | 0.282 | NA | 0.000 |
| | D | 0.283 | NA | 0.000 |
| | E | 0.411 | NA | 0.000 |
| | F | 0.386 | NA | 0.000 |
| | G | 0.541 | NA | 0.000 |
| | H | 0.399 | NA | 0.000 |
| 144 - 156 | A | 2.909 | NA | 0.000 |
| | B | 0.762 | NA | 0.000 |
| | C | 1.079 | NA | 0.000 |
| | D | 1.580 | NA | 0.000 |
| | E | 0.996 | NA | 0.000 |
| | F | 0.335 | NA | 0.000 |
| | G | 0.481 | NA | 0.000 |
| | H | 0.441 | NA | 0.000 |
| 156 - 168 | A | 0.515 | NA | 0.000 |
| | B | 0.769 | NA | 0.000 |
| | C | 0.673 | NA | 0.000 |
| | D | 0.599 | NA | 0.000 |
| | E | 0.635 | NA | 0.000 |
| | F | 0.416 | NA | 0.000 |
| | G | 0.459 | NA | 0.000 |
| | H | 0.915 | NA | 0.000 |
| | | | | |
| | | | | |

Due to the afternoon application time, the study skipped the planned 6-12 hour sampling period and started with a single nominal 6 hour sampling peric
Due to weather conditions on June 23 to 24, the planned 48 to 60-hour samples could not be deployed or collected. Furthermore, samples G and C we
Measured concentrations from Appendix C, pp. 388-392 of the study report.
Sample start times, end times, and flow rates from Appendix B, pp. 216-218 of the study report.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18:51 | 8:17 | 3.040 | 2.941 | 806 | Raw Air Conc.0.0000 | 0.0000 | 0.00% |
| 8:31 | 18:43 | 2.991 | 2.973 | 612 | 0.0001 | 0.0000 | 0.00% |
| 8:39 | 18:48 | 3.013 | 2.997 | 609 | 0.0002 | 0.0000 | 0.00% |
| 8:48 | 18:11 | 2.957 | 2.940 | 563 | 0.0002 | 0.0000 | 0.00% |
| 7:39 | 18:16 | 2.970 | 3.055 | 637 | 0.0002 | 0.0000 | 0.00% |
| 7:48 | 18:21 | 2.974 | 2.955 | 633 | 0.0002 | 0.0000 | 0.00% |
| 8:00 | 18:27 | 3.021 | 2.975 | 627 | 0.0002 | 0.0000 | 0.00% |
| 8:11 | 18:33 | 2.983 | 3.122 | 622 | 0.0002 | 0.0000 | 0.00% |
| 8:21 | 18:38 | 2.957 | 3.060 | 617 | 0.0000 | 0.0000 | 0.00% |
| 18:44 | 8:50 | 2.980 | 3.017 | 846 | 0.0001 | 0.0000 | 0.00% |
| 18:50 | 8:56 | 3.023 | 2.997 | 846 | 0.0001 | 0.0000 | 0.00% |
| 18:12 | 7:57 | 2.959 | 2.998 | 825 | 0.0001 | 0.0000 | 0.00% |
| 18:17 | 8:10 | 2.972 | 2.980 | 833 | 0.0001 | 0.0000 | 0.00% |
| 18:22 | 8:17 | 2.967 | 3.052 | 835 | 0.0002 | 0.0000 | 0.00% |
| 18:28 | 8:24 | 2.955 | 2.991 | 836 | 0.0002 | 0.0000 | 0.00% |
| 18:33 | 8:30 | 2.974 | 2.948 | 837 | 0.0002 | 0.0000 | 0.00% |
| 18:38 | 8:40 | 2.985 | 2.943 | 842 | 0.0002 | 0.0000 | 0.00% |
| 8:51 | 19:00 | 3.018 | 2.943 | 609 | 0.0016 | 0.0000 | 0.00% |
| 8:58 | 19:06 | 2.977 | 2.848 | 608 | 0.0004 | 0.0000 | 0.00% |
| 7:59 | 18:06 | 3.003 | 2.910 | 607 | 0.0006 | 0.0000 | 0.00% |
| 8:12 | 18:14 | 2.978 | 2.888 | 602 | 0.0009 | 0.0000 | 0.00% |
| 8:18 | 18:26 | 3.041 | 2.942 | 608 | 0.0005 | 0.0000 | 0.00% |
| 8:26 | 18:36 | 2.997 | 2.855 | 610 | 0.0002 | 0.0000 | 0.00% |
| 8:34 | 18:43 | 2.982 | 2.881 | 609 | 0.0003 | 0.0000 | 0.00% |
| 8:46 | 18:53 | 2.971 | 2.891 | 607 | 0.0002 | 0.0000 | 0.00% |
| 18:51 | 8:03 | 3.030 | 2.988 | 792 | 0.0002 | 0.0000 | 0.00% |
| 19:08 | 8:07 | 3.019 | 3.146 | 779 | 0.0003 | 0.0000 | 0.00% |
| 18:07 | 8:10 | 3.000 | 2.987 | 843 | 0.0003 | 0.0000 | 0.00% |
| 18:16 | 8:13 | 2.989 | 2.980 | 837 | 0.0002 | 0.0000 | 0.00% |
| 18:28 | 7:45 | 3.014 | 2.994 | 797 | 0.0003 | 0.0000 | 0.00% |
| 18:36 | 7:50 | 3.008 | 3.025 | 794 | 0.0002 | 0.0000 | 0.00% |
| 18:44 | 7:54 | 3.009 | 3.029 | 790 | 0.0002 | 0.0000 | 0.00% |
| 18:54 | 7:59 | 3.010 | 3.042 | 785 | 0.0004 | 0.0000 | 0.00% |

d followed by a morning-evening schedule (Appendix B, pp. 110-111 of the study report).

re not deployed or collected for the 60 to 72-hour sampling period (Appendix B, pp. 110-111 of the study report).

| Raw Air Conc. |
| --- |
| 0.00000 |
| 0.00015 |
| 0.00023 |
| 0.00022 |
| 0.00021 |
| 0.00024 |
| 0.00018 |
| 0.00023 |
| 0.00000 |
| 0.00015 |
| 0.00014 |
| 0.00011 |
| 0.00011 |
| 0.00016 |
| 0.00016 |
| 0.00022 |
| 0.00016 |
| 0.00160 |
| 0.00043 |
| 0.00060 |
| 0.00089 |
| 0.00055 |
| 0.00019 |
| 0.00027 |
| 0.00025 |
| 0.00022 |
| 0.00032 |
| 0.00027 |
| 0.00024 |
| 0.00027 |
| 0.00017 |
| 0.00019 |
| 0.00039 |
| |
| |
| |
| |
| |
| |

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

| | |
|---|---|
| Plot Soybean | |
| Sample Periods | |
| Day | 6 |
| Hours | |
| DTG | |
| **Fortification Level (µg)** | **Perce** |
| 0 | NA |
| 0.003 | 102% |
| 0.01 | 111% |
| 0.06 | 94% |

NA indicate not applicable.
Data from Appendix C, Table 8, p. 275 of the study report.

**PUF Sample Results (ng/PUF; Appendix C, Table 8, p. 275 of the study report).**

| | |
|---|---|
| 0 | ND |
| 0.003 | 3.07 |
| 0.01 | 11.1 |
| 0.03 | 28.1 |

**Reviewer calculated percent recoveries.**

| | |
|---|---|
| 0 | NA |
| 0.003 | 102% |
| 0.01 | 111% |
| 0.03 | 94% |

| | | | | |
|---|---|---|---|---|
| 6 | 6 | 12 | 12 | 12 |
| **ent Recovery (%)** | | | | |
| NA | NA | NA | NA | NA |
| 101% | 116% | 89% | 100% | 92% |
| 97% | 104% | 86% | 87% | 110% |
| 101% | 115% | 116% | 109% | 113% |

| | | | | |
|---|---|---|---|---|
| ND | 1.8 | ND | ND | ND |
| 3.04 | 3.47 | 2.67 | 3.01 | 2.76 |
| 9.69 | 10.4 | 8.63 | 8.68 | 11 |
| 30.3 | 34.6 | 34.9 | 32.7 | 33.8 |

| | | | | |
|---|---|---|---|---|
| NA | NA | NA | NA | NA |
| 101% | 116% | 89% | 100% | 92% |
| 97% | 104% | 86% | 87% | 110% |
| 101% | 115% | 116% | 109% | 113% |

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

| Plot soybean | | | | |
|---|---|---|---|---|
| Sample Periods | 1 | 2 | 3 | 4 |
| Day | 1 | 1 & 2 | 2 | 2 & 3 |
| Hours | 0 - 6 | 12 - 24 | 24 - 36 | 36 - 48 |
| DTG | 6/22, 14:51 - 18:54 | 6/22-23, 18:12 - 7:56 | 6/23, 7:19 - 18:47 | 6/23-24, 18:17 - 20:28 |
| Sampler | | | | |
| A | 0.001701956 | 0.002640816 | 0.000464238 | 0.000169742 |
| B | 0.007952899 | 0.004514203 | 0.002745653 | 0.000124065 |
| C | 0.007396694 | 0.00120269 | 0.001857146 | 0.000100694 |
| D | 0.00863387 | 0.001197091 | 0.000650775 | 0.000132214 |
| E | 0.000377751 | 0.00018314 | 0.000114991 | 0.000114261 |
| F | 0.000376147 | 0.000272846 | 0.000145479 | 9.0347E-05 |
| G | 0.000389219 | 0.000259489 | 0.00010535 | #DIV/0! |
| H | 0.00099327 | 0.001985391 | 0.00029225 | 0 |

| Air Concentrations ($\mu g/m^3$) | | | | |
|---|---|---|---|---|
| 5<br>3 & 4<br>48 - 72<br>6/24-25, 18:56 - 9:30 | 6<br>4<br>72 - 84<br>6/25, 8:10 - 20:25 | 7<br>4 & 5<br>84 - 96<br>6/25-26, 19:05 - 10:00 | 8<br>5<br>96 - 108<br>6/26, 8:07 - 18:59 | 9<br>5 & 6<br>108 - 120<br>6/26-27, 18:20 - 8:46 |
| 5.08567E-05 | 4.72021E-05 | 4.16177E-05 | 0.000132435 | 0 |
| 0 | 0 | 0 | 8.65311E-05 | 0 |
| #DIV/0! | 7.72346E-05 | 0 | 6.30821E-05 | 0 |
| 7.32881E-05 | 7.00841E-05 | 0 | 7.30298E-05 | 0 |
| 4.06665E-05 | 0 | 0 | 0 | 0 |
| 0 | 4.67998E-05 | 0 | 0 | 0 |
| #DIV/0! | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 6.24929E-05 | 0 |

| 10<br>6<br>120 - 132<br>6/27, 7:39 - 18:48 | 11<br>6 & 7<br>132 - 144<br>6/27-28, 18:12 - 8:56 | 12<br>7<br>144 - 156<br>6/28, 7:59 - 19:06 | 13<br>7 & 8<br>156 - 168<br>6/28-29, 18:07 - 8:13 |
|---|---|---|---|
| 0.000145755 | 0.000147828 | 0.001602645 | 0.000216103 |
| 0.000233328 | 0.000139802 | 0.000430314 | 0.000320248 |
| 0.000219276 | 0.000114762 | 0.00060125 | 0.000266691 |
| 0.000213136 | 0.000114159 | 0.000894846 | 0.000239789 |
| 0.000244601 | 0.000163554 | 0.000547604 | 0.000265226 |
| 0.000176088 | 0.000155305 | 0.00018769 | 0.000173688 |
| 0.00023227 | 0.00021829 | 0.000269425 | 0.000192452 |
| 0 | 0.000159876 | 0.000247876 | 0.000385197 |

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

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

Plot Soybean

| Sampler | 1 | | Sampler | 2 | | Sampler |
|---|---|---|---|---|---|---|
| | Model | Measured | | Model | Measured | |
| A | 0.001291 | 0.001701956 | A | 0.006707 | 0.002640816 | A |
| B | 0.003813 | 0.007952899 | B | 0.00903 | 0.004514203 | B |
| C | 0.001776 | 0.007396694 | C | 0.001909 | 0.00120269 | C |
| D | 0.001463 | 0.00863387 | D | 0.00134 | 0.001197091 | D |
| H | 0.00018 | 0.00099327 | E | 0 | 0.00018314 | H |
| | | | F | 0 | 0.000272846 | |
| | | | G | 0 | 0.000259489 | |
| | | | H | 0.004277 | 0.001985391 | |

| | | | |
|---|---|---|---|
| 1.854835709 | 0.002173985 | 0.426439782 | 0.000291925 |
| 1.193636962 | 0.002477054 | 0.033322553 | 0.000144415 |
| 0.445954503 | 0.003159034 | 0.964658424 | 0.000302872 |
| 2.414717774 | 3 | 163.7717164 | 6 |

| | | | |
|---|---|---|---|
| 2.715339175 | 0 | 0.471635887 | 0 |
| 0.660940327 | #N/A | 0.029658921 | #N/A |
| 0.808411725 | 0.003066976 | 0.973063798 | 0.000363558 |
| 16.87810441 | 4 | 252.8733114 | 7 |

| | | |
|---|---|---|
| slope | 1.854835709 | 0.426439782 |
| intercept | 0.002173985 | 0.000291925 |
| stderr (slope) | 1.193636962 | 0.033322553 |
| stderr (intercept) | 0.002477054 | 0.000144415 |
| DOF (slope w/ intercept) | 3 | 6 |
| slope w/ intercept sig? | Yes | Yes |
| intercept sig? | No | Yes |
| intercept < 25th %? | No | No |
| slope no intercept | 2.715339175 | 0.471635887 |
| stderr (slope no intercept) | 0.660940327 | 0.029658921 |
| DOF (slope no intercept) | 4 | 7 |
| slope no intercept sig? | Yes | Yes |
| **flux** | 1854.84 | 471.64 |
| **reasoning** | Slope | Slope, no intercept |
| **ratio method** | 3130.20 | 526.83 |

Air Concei

| 3 | | | 4 | | | 5 | | | 6 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | Measured | | Model | Measured | | Model | Measured | | Model | Measured |
| 0.000108 | 0.000464238 | A | 0.000066 | 0.000169742 | B | 0.008884 | 0 | B | 0.006611 | 0 |
| 0.00317 | 0.002745653 | B | 0.001849 | 0.000124065 | F | 0 | 0 | E | 0 | 0 |
| 0.002227 | 0.001857146 | D | 0.001873 | 0.000132214 | H | 0.005254 | 0 | G | 0 | 0 |
| 0.001662 | 0.000650775 | E | 0.000033 | 0.000114261 | | | | H | 0.00127 | 0 |
| 0.000017 | 0.00029225 | F | 0.000093 | 9.0347E-05 | | | | | | |

LINEST E

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.715891663 | 0.000173419 | 0.001741377 | 0.000124762 | 0 | 0 | 0 | 0 |
| 0.172276078 | 0.000324891 | 0.016978144 | 2.0004E-05 | 0 | 0 | 0 | 0 |
| 0.851984183 | 0.000470558 | 0.003494327 | 3.34308E-05 | 1 | 0 | 1 | 0 |
| 17.26810414 | 3 | 0.01051974 | 3 | #NUM! | 1 | #NUM! | 2 |

LINEST E

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0.785951353 | 0 | 0.072094134 | 0 | 0 | 0 | 0 | 0 |
| 0.101122492 | #N/A | 0.041068051 | #N/A | 0 | #N/A | 0 | #N/A |
| 0.937896094 | 0.000426428 | 0.435164612 | 0.000108197 | 1 | 0 | 1 | 0 |
| 60.40818713 | 4 | 3.081709263 | 4 | #NUM! | 2 | #NUM! | 3 |

CALI

| | | | |
|---|---|---|---|
| 0.715891663 | 0.001741377 | 0 | 0 |
| 0.000173419 | 0.000124762 | 0 | 0 |
| 0.172276078 | 0.016978144 | 0 | 0 |
| 0.000324891 | 2.0004E-05 | 0 | 0 |
| 3 | 3 | 1 | 2 |
| Yes | No | Yes | Yes |
| No | Yes | Yes | Yes |
| Yes | No | No | No |
| 0.785951353 | 0.072094134 | 0 | 0 |
| 0.101122492 | 0.041068051 | 0 | 0 |
| 4 | 4 | 2 | 3 |
| Yes | Yes | Yes | Yes |
| | | | |
| 715.89 | 72.09 | 0.00 | 0.00 |
| Slope | Slope, no intercept | Slope | Slope |
| | | | |
| 836.59 | 161.12 | 0.00 | 0.00 |

ntrations During Sampling Periods (μg/m$^3$)

| | 7 | | | 8 | | | 9 | | | 10 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Model | Measured | | Model | Measured | | Model | Measured | | Model | Measured | |
| B | 0.003029 | 0 | E | 0 | 0 | A | 0.001708 | 0 | B | 0.002104 | 0.000233328 | A |
| C | 0 | 0 | F | 0 | 0 | B | 0.002469 | 0 | C | 0.002574 | 0.000219276 | B |
| D | 0.000088 | 0 | G | 0 | 0 | C | 0.000777 | 0 | D | 0.003616 | 0.000213136 | E |
| E | 0 | 0 | | | | D | 0.000274 | 0 | E | 0.000692 | 0.000244601 | F |
| F | 0.000001 | 0 | | | | E | 0 | 0 | F | 0.000753 | 0.000176088 | G |
| G | 0.000016 | 0 | | | | F | 0.009165 | 0 | G | 0.000585 | 0.00023227 | H |
| H | 0.002283 | 0 | | | | G | 0.016 | 0 | H | 0.001672 | 0 | |
| | | | | | | H | 0.015263 | 0 | | | | |

Excel Function Output (Slope w/ Intercept)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0.000503295 | 0.000187523 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0.033807705 | 6.79904E-05 |
| 1 | 0 | 1 | 0 | 1 | 0 | 4.43226E-05 | 9.41392E-05 |
| #NUM! | 5 | #NUM! | 1 | #NUM! | 6 | 0.000221623 | 5 |

Excel Function Output (Slope No Intercept)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0.079959713 | 0 |
| 0 | #N/A | 0 | #N/A | 0 | #N/A | 0.025646018 | #N/A |
| 1 | 0 | 1 | 0 | 1 | 0 | 0.618340344 | 0.000136459 |
| #NUM! | 6 | #NUM! | 3 | #NUM! | 7 | 9.720812781 | 6 |

DPR Flux Back-Calculation Summary

| | | | |
|---|---|---|---|
| 0 | 0 | 0 | 0.000503295 |
| 0 | 0 | 0 | 0.000187523 |
| 0 | 0 | 0 | 0.033807705 |
| 0 | 0 | 0 | 6.79904E-05 |
| 5 | 1 | 6 | 5 |
| Yes | Yes | Yes | No |
| Yes | Yes | Yes | Yes |
| No | No | No | Yes |
| 0 | 0 | 0 | 0.079959713 |
| 0 | 0 | 0 | 0.025646018 |
| 6 | 3 | 7 | 6 |
| Yes | Yes | Yes | Yes |
| | | | |
| 0.00 | 0.00 | 0.00 | 79.96 |
| Slope | Slope | Slope | Slope, no intercept |
| | | | |
| 0.00 | #DIV/0! | 0.00 | 109.93 |

| 11 | | | 12 | | | 13 | |
|---|---|---|---|---|---|---|---|
| Model | Measured | | Model | Measured | | Model | Measured |
| 0.026552 | 0.000147828 | A | 0.00211 | 0.001602645 | A | 0.00452 | 0.000216103 |
| 0.024253 | 0.000139802 | B | 0.002792 | 0.000430314 | B | 0.011343 | 0.000320248 |
| 0 | 0.000163554 | C | 0.000434 | 0.00060125 | C | 0.00712 | 0.000266691 |
| 0.020015 | 0.000155305 | D | 0.000484 | 0.000894846 | D | 0.021941 | 0.000239789 |
| 0.030345 | 0.00021829 | E | 0.000418 | 0.000547604 | E | 0.022784 | 0.000265226 |
| 0.042989 | 0.000159876 | F | 0.001777 | 0.00018769 | F | 0.035541 | 0.000173688 |
| | | G | 0.002148 | 0.000269425 | G | 0.020919 | 0.000192452 |
| | | H | 0.004211 | 0.000247876 | H | 0.015704 | 0.000385197 |
| | | | | | | | |
| 0.000264284 | 0.00015776 | | -0.090191457 | 0.000759758 | | -0.002771471 | 0.00030588 |
| 0.000977253 | 2.6652E-05 | | 0.137723944 | 0.000301537 | | 0.002590747 | 5.13897E-05 |
| 0.017955594 | 3.08925E-05 | | 0.06670804 | 0.000487363 | | 0.16017926 | 6.86507E-05 |
| 0.073135569 | 4 | | 0.428856412 | 6 | | 1.144381789 | 6 |
| | | | | | | | |
| 0.005360238 | 0 | | 0.194582568 | 0 | | 0.010820756 | 0 |
| 0.001292143 | #N/A | | 0.104528336 | #N/A | | 0.002976799 | #N/A |
| 0.77486256 | 8.63195E-05 | | 0.331122319 | 0.000647307 | | 0.653695983 | 0.000167011 |
| 17.20865621 | 5 | | 3.46529164 | 7 | | 13.21345307 | 7 |
| | | | | | | | |
| 0.000264284 | | | -0.090191457 | | | -0.002771471 | |
| 0.00015776 | | | 0.000759758 | | | 0.00030588 | |
| 0.000977253 | | | 0.137723944 | | | 0.002590747 | |
| 2.6652E-05 | | | 0.000301537 | | | 5.13897E-05 | |
| 4 | | | 6 | | | 6 | |
| No | | | No | | | Yes | |
| Yes | | | Yes | | | Yes | |
| No | | | No | | | No | |
| 0.005360238 | | | 0.194582568 | | | 0.010820756 | |
| 0.001292143 | | | 0.104528336 | | | 0.002976799 | |
| 5 | | | 7 | | | 7 | |
| Yes | | | Yes | | | Yes | |
| | | | | | | | |
| 5.36 | | | 194.58 | | | 10.82 | |
| Slope, no intercept | | | Slope, no intercept | | | Slope, no intercept | |
| | | | | | | | |
| 6.83 | | | 332.66 | | | 14.72 | |

Air Concentrations for Sorted Regression (µg/m³)

| 11 sorted | | 12 sorted | | 13 so |
|---|---|---|---|---|
| Model | Measured | Model | Measured | Model |
| 0 | 0.000139802 | 0.000418 | 0.00018769 | 0.00452 |
| 0.020015 | 0.000147828 | 0.000434 | 0.000247876 | 0.00712 |
| 0.024253 | 0.000155305 | 0.000484 | 0.000269425 | 0.011343 |
| 0.026552 | 0.000159876 | 0.001777 | 0.000430314 | 0.015704 |
| 0.030345 | 0.000163554 | 0.00211 | 0.000547604 | 0.020919 |
| 0.042989 | 0.00021829 | 0.002148 | 0.00060125 | 0.021941 |
| | | 0.002792 | 0.000894846 | 0.022784 |
| | | 0.004211 | 0.001602645 | 0.035541 |
| | | | | |
| 0.001661709 | 0.000124185 | 0.334102182 | -2.59187E-06 | 0.006768082 |
| 0.000531193 | 1.44869E-05 | 0.041467938 | 9.07912E-05 | 0.000598042 |
| 0.709850416 | 1.67919E-05 | 0.915389646 | 0.000146742 | 0.95524929 |
| 9.785992529 | 4 | 64.91330721 | 6 | 128.0760861 |
| | | | | |
| 0.005673152 | 0 | 0.33313069 | 0 | 0.012948782 |
| 0.000989512 | #N/A | 0.021939948 | #N/A | 0.00127879 |
| 0.867971289 | 6.61027E-05 | 0.970532056 | 0.000135866 | 0.936091723 |
| 32.87055089 | 5 | 230.546261 | 7 | 102.5319782 |
| | | | | |
| 0.001661709 | | 0.334102182 | | 0.006768082 |
| 0.000124185 | | -2.59187E-06 | | 0.000139091 |
| 0.000531193 | | 0.041467938 | | 0.000598042 |
| 1.44869E-05 | | 9.07912E-05 | | 1.18627E-05 |
| 4 | | 6 | | 6 |
| Yes | | Yes | | Yes |
| Yes | | Yes | | Yes |
| Yes | | Yes | | Yes |
| 0.005673152 | | 0.33313069 | | 0.012948782 |
| 0.000989512 | | 0.021939948 | | 0.00127879 |
| 5 | | 7 | | 7 |
| Yes | | Yes | | Yes |
| | | | | |
| 1.66 | | 334.10 | | 6.77 |
| Slope | | Slope | | Slope |
| | | | | |
| 6.83 | | 332.66 | | 14.72 |

| |
|---|
| orted |
| Measured |
| 0.000173688 |
| 0.000192452 |
| 0.000216103 |
| 0.000239789 |
| 0.000265226 |
| 0.000266691 |
| 0.000320248 |
| 0.000385197 |
| |
| 0.000139091 |
| 1.18627E-05 |
| 1.58472E-05 |
| 6 |
| |
| 0 |
| #N/A |
| 7.17456E-05 |
| 7 |

Modeled air concentrations from Appendix D, Table 5, pp. 553-554 of the study report.