Calculation: Potential Doses and Margins of Exposure
Scenario: Public Receptors - Routine Exposure
Pathway: Dermal Contact with Spray Drift
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Dermal Absorption Factor | Deposition Rate (mg/cm2) | Exposure Factor (cm2/kg-day) | Dermal Dose (mg/kg-day) | Dermal NOAELs (mg/kg-day) Short | MOE (unitless) Short |
|---|---|---|---|---|---|---|---|---|---|
| Typical | Ground | Low Boom | Hiker/Hunter | 1.50E-01 | 2.64E-05 | 6.43E+01 | 2.55E-04 | 4.50E+01 | 1.77E+05 |
| Typical | Ground | High Boom | Hiker/Hunter | 1.50E-01 | 4.36E-05 | 6.43E+01 | 4.21E-04 | 4.50E+01 | 1.07E+05 |
| Max | Ground | Low Boom | Hiker/Hunter | 1.50E-01 | 3.52E-05 | 6.43E+01 | 3.40E-04 | 4.50E+01 | 1.32E+05 |
| Max | Ground | High Boom | Hiker/Hunter | 1.50E-01 | 5.82E-05 | 6.43E+01 | 5.62E-04 | 4.50E+01 | 8.01E+04 |
| Typical | Ground | Low Boom | Berry - child | 1.50E-01 | 2.64E-05 | 1.07E+02 | 4.24E-04 | 4.50E+01 | 1.06E+05 |
| Typical | Ground | High Boom | Berry - child | 1.50E-01 | 4.36E-05 | 1.07E+02 | 7.01E-04 | 4.50E+01 | 6.42E+04 |
| Max | Ground | Low Boom | Berry - child | 1.50E-01 | 3.52E-05 | 1.07E+02 | 5.66E-04 | 4.50E+01 | 7.96E+04 |
| Max | Ground | High Boom | Berry - child | 1.50E-01 | 5.82E-05 | 1.07E+02 | 9.35E-04 | 4.50E+01 | 4.81E+04 |
| Typical | Ground | Low Boom | Berry - adult | 1.50E-01 | 2.64E-05 | 6.43E+01 | 2.55E-04 | 4.50E+01 | 1.77E+05 |
| Typical | Ground | High Boom | Berry - adult | 1.50E-01 | 4.36E-05 | 6.43E+01 | 4.21E-04 | 4.50E+01 | 1.07E+05 |
| Max | Ground | Low Boom | Berry - adult | 1.50E-01 | 3.52E-05 | 6.43E+01 | 3.40E-04 | 4.50E+01 | 1.32E+05 |
| Max | Ground | High Boom | Berry - adult | 1.50E-01 | 5.82E-05 | 6.43E+01 | 5.62E-04 | 4.50E+01 | 8.01E+04 |
| Typical | Ground | Low Boom | Angler | 1.50E-01 | 2.64E-05 | 6.43E+01 | 2.55E-04 | 4.50E+01 | 1.77E+05 |
| Typical | Ground | High Boom | Angler | 1.50E-01 | 4.36E-05 | 6.43E+01 | 4.21E-04 | 4.50E+01 | 1.07E+05 |
| Max | Ground | Low Boom | Angler | 1.50E-01 | 3.52E-05 | 6.43E+01 | 3.40E-04 | 4.50E+01 | 1.32E+05 |
| Max | Ground | High Boom | Angler | 1.50E-01 | 5.82E-05 | 6.43E+01 | 5.62E-04 | 4.50E+01 | 8.01E+04 |
| Typical | Ground | Low Boom | Res-child | 1.50E-01 | 2.64E-05 | 1.07E+02 | 4.24E-04 | 4.50E+01 | 1.06E+05 |
| Typical | Ground | High Boom | Res-child | 1.50E-01 | 4.36E-05 | 1.07E+02 | 7.01E-04 | 4.50E+01 | 6.42E+04 |
| Max | Ground | Low Boom | Res-child | 1.50E-01 | 3.52E-05 | 1.07E+02 | 5.66E-04 | 4.50E+01 | 7.96E+04 |
| Max | Ground | High Boom | Res-child | 1.50E-01 | 5.82E-05 | 1.07E+02 | 9.35E-04 | 4.50E+01 | 4.81E+04 |
| Typical | Ground | Low Boom | Res-adult | 1.50E-01 | 2.64E-05 | 6.43E+01 | 2.55E-04 | 4.50E+01 | 1.77E+05 |
| Typical | Ground | High Boom | Res-adult | 1.50E-01 | 4.36E-05 | 6.43E+01 | 4.21E-04 | 4.50E+01 | 1.07E+05 |
| Max | Ground | Low Boom | Res-adult | 1.50E-01 | 3.52E-05 | 6.43E+01 | 3.40E-04 | 4.50E+01 | 1.32E+05 |
| Max | Ground | High Boom | Res-adult | 1.50E-01 | 5.82E-05 | 6.43E+01 | 5.62E-04 | 4.50E+01 | 8.01E+04 |
| Typical | Ground | Low Boom | N.A.-child | 1.50E-01 | 2.64E-05 | 1.07E+02 | 4.24E-04 | 4.50E+01 | 1.06E+05 |
| Typical | Ground | High Boom | N.A.-child | 1.50E-01 | 4.36E-05 | 1.07E+02 | 7.01E-04 | 4.50E+01 | 6.42E+04 |
| Max | Ground | Low Boom | N.A.-child | 1.50E-01 | 3.52E-05 | 1.07E+02 | 5.66E-04 | 4.50E+01 | 7.96E+04 |
| Max | Ground | High Boom | N.A.-child | 1.50E-01 | 5.82E-05 | 1.07E+02 | 9.35E-04 | 4.50E+01 | 4.81E+04 |
| Typical | Ground | Low Boom | N.A.-adult | 1.50E-01 | 2.64E-05 | 6.43E+01 | 2.55E-04 | 4.50E+01 | 1.77E+05 |
| Typical | Ground | High Boom | N.A.-adult | 1.50E-01 | 4.36E-05 | 6.43E+01 | 4.21E-04 | 4.50E+01 | 1.07E+05 |
| Max | Ground | Low Boom | N.A.-adult | 1.50E-01 | 3.52E-05 | 6.43E+01 | 3.40E-04 | 4.50E+01 | 1.32E+05 |
| Max | Ground | High Boom | N.A.-adult | 1.50E-01 | 5.82E-05 | 6.43E+01 | 5.62E-04 | 4.50E+01 | 8.01E+04 |

NA - Not Available.
NC - Not Calculated (No dose-response value).

Calculation: Potential Doses and Margins of Exposure
Scenario: Public Receptors - Routine Exposure
Pathway: Dermal Contact with Foliage
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Fraction a.i. Retained on Foliage | Dermal Absorption Factor | Deposition Rate (mg/cm2) | Dislodgeable Foliar Residue (mg/cm2) | Exposure Factor (cm2/kg-day) | Dermal Dose (mg/kg-day) | Dermal NOAELs (mg/kg-day) Short | MOE (unitless) Short |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Typical | Ground | Low Boom | Hiker/Hunter | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 2.86E+01 | 2.26E-05 | 4.50E+01 | 1.99E+06 |
| Typical | Ground | High Boom | Hiker/Hunter | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 2.86E+01 | 3.74E-05 | 4.50E+01 | 1.20E+06 |
| Max | Ground | Low Boom | Hiker/Hunter | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 2.86E+01 | 3.02E-05 | 4.50E+01 | 1.49E+06 |
| Max | Ground | High Boom | Hiker/Hunter | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 2.86E+01 | 4.99E-05 | 4.50E+01 | 9.02E+05 |
| Typical | Ground | Low Boom | Berry - child | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 4.00E+01 | 3.17E-05 | 4.50E+01 | 1.42E+06 |
| Typical | Ground | High Boom | Berry - child | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 4.00E+01 | 5.23E-05 | 4.50E+01 | 8.60E+05 |
| Max | Ground | Low Boom | Berry - child | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 4.00E+01 | 4.22E-05 | 4.50E+01 | 1.07E+06 |
| Max | Ground | High Boom | Berry - child | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 4.00E+01 | 6.98E-05 | 4.50E+01 | 6.44E+05 |
| Typical | Ground | Low Boom | Berry - adult | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 4.29E+01 | 3.39E-05 | 4.50E+01 | 1.33E+06 |
| Typical | Ground | High Boom | Berry - adult | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 4.29E+01 | 5.61E-05 | 4.50E+01 | 8.03E+05 |
| Max | Ground | Low Boom | Berry - adult | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 4.29E+01 | 4.53E-05 | 4.50E+01 | 9.94E+05 |
| Max | Ground | High Boom | Berry - adult | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 4.29E+01 | 7.48E-05 | 4.50E+01 | 6.01E+05 |
| Typical | Ground | Low Boom | Angler | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 2.86E+01 | 2.26E-05 | 4.50E+01 | 1.99E+06 |
| Typical | Ground | High Boom | Angler | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 2.86E+01 | 3.74E-05 | 4.50E+01 | 1.20E+06 |
| Max | Ground | Low Boom | Angler | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 2.86E+01 | 3.02E-05 | 4.50E+01 | 1.49E+06 |
| Max | Ground | High Boom | Angler | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 2.86E+01 | 4.99E-05 | 4.50E+01 | 9.02E+05 |
| Typical | Ground | Low Boom | Res-child | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 6.93E+02 | 5.49E-04 | 4.50E+01 | 8.19E+04 |
| Typical | Ground | High Boom | Res-child | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 6.93E+02 | 9.07E-04 | 4.50E+01 | 4.96E+04 |
| Max | Ground | Low Boom | Res-child | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 6.93E+02 | 7.32E-04 | 4.50E+01 | 6.15E+04 |
| Max | Ground | High Boom | Res-child | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 6.93E+02 | 1.21E-03 | 4.50E+01 | 3.72E+04 |
| Typical | Ground | Low Boom | Res-adult | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 4.14E+02 | 3.28E-04 | 4.50E+01 | 1.37E+05 |
| Typical | Ground | High Boom | Res-adult | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 4.14E+02 | 5.42E-04 | 4.50E+01 | 8.30E+04 |
| Max | Ground | Low Boom | Res-adult | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 4.14E+02 | 4.37E-04 | 4.50E+01 | 1.03E+05 |
| Max | Ground | High Boom | Res-adult | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 4.14E+02 | 7.23E-04 | 4.50E+01 | 6.22E+04 |
| Typical | Ground | Low Boom | N.A.-child | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 6.00E+01 | 4.75E-05 | 4.50E+01 | 9.47E+05 |
| Typical | Ground | High Boom | N.A.-child | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 6.00E+01 | 7.85E-05 | 4.50E+01 | 5.73E+05 |
| Max | Ground | Low Boom | N.A.-child | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 6.00E+01 | 6.34E-05 | 4.50E+01 | 7.10E+05 |
| Max | Ground | High Boom | N.A.-child | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 6.00E+01 | 1.05E-04 | 4.50E+01 | 4.30E+05 |
| Typical | Ground | Low Boom | N.A.-adult | 2.00E-01 | 1.50E-01 | 2.64E-05 | 5.28E-06 | 6.43E+01 | 5.09E-05 | 4.50E+01 | 8.84E+05 |
| Typical | Ground | High Boom | N.A.-adult | 2.00E-01 | 1.50E-01 | 4.36E-05 | 8.72E-06 | 6.43E+01 | 8.41E-05 | 4.50E+01 | 5.35E+05 |
| Max | Ground | Low Boom | N.A.-adult | 2.00E-01 | 1.50E-01 | 3.52E-05 | 7.04E-06 | 6.43E+01 | 6.79E-05 | 4.50E+01 | 6.63E+05 |
| Max | Ground | High Boom | N.A.-adult | 2.00E-01 | 1.50E-01 | 5.82E-05 | 1.16E-05 | 6.43E+01 | 1.12E-04 | 4.50E+01 | 4.01E+05 |

NA - Not Available.
NC - Not Calculated (No dose-response value).

Calculation: Potential Doses and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Ingestion of Berries
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Fraction a.i. Retained on Berry | Deposition Rate (mg/cm2) | Exposure Factor (cm2/kg-day) | Absorbed Dose (mg/kg-day) | PAD (mg/kg-day) Acute | %PAD (unitless) Acute |
|---|---|---|---|---|---|---|---|---|---|
| Typical | Ground | Low Boom | Berry - child | 2.00E-01 | 2.64E-05 | 4.60E+00 | 2.43E-05 | 1.00E+00 | 0.002429% |
| Typical | Ground | High Boom | Berry - child | 2.00E-01 | 4.36E-05 | 4.60E+00 | 4.01E-05 | 1.00E+00 | 0.004011% |
| Max | Ground | Low Boom | Berry - child | 2.00E-01 | 3.52E-05 | 4.60E+00 | 3.24E-05 | 1.00E+00 | 0.003238% |
| Max | Ground | High Boom | Berry - child | 2.00E-01 | 5.82E-05 | 4.60E+00 | 5.35E-05 | 1.00E+00 | 0.005354% |
| Typical | Ground | Low Boom | Berry - adult | 2.00E-01 | 2.64E-05 | 4.57E+00 | 2.41E-05 | 1.00E+00 | 0.002414% |
| Typical | Ground | High Boom | Berry - adult | 2.00E-01 | 4.36E-05 | 4.57E+00 | 3.99E-05 | 1.00E+00 | 0.003986% |
| Max | Ground | Low Boom | Berry - adult | 2.00E-01 | 3.52E-05 | 4.57E+00 | 3.22E-05 | 1.00E+00 | 0.003218% |
| Max | Ground | High Boom | Berry - adult | 2.00E-01 | 5.82E-05 | 4.57E+00 | 5.32E-05 | 1.00E+00 | 0.005321% |
| Typical | Ground | Low Boom | Res-child | 2.00E-01 | 2.64E-05 | 4.60E+00 | 2.43E-05 | 1.00E+00 | 0.002429% |
| Typical | Ground | High Boom | Res-child | 2.00E-01 | 4.36E-05 | 4.60E+00 | 4.01E-05 | 1.00E+00 | 0.004011% |
| Max | Ground | Low Boom | Res-child | 2.00E-01 | 3.52E-05 | 4.60E+00 | 3.24E-05 | 1.00E+00 | 0.003238% |
| Max | Ground | High Boom | Res-child | 2.00E-01 | 5.82E-05 | 4.60E+00 | 5.35E-05 | 1.00E+00 | 0.005354% |
| Typical | Ground | Low Boom | Res-adult | 2.00E-01 | 2.64E-05 | 4.57E+00 | 2.41E-05 | 1.00E+00 | 0.002414% |
| Typical | Ground | High Boom | Res-adult | 2.00E-01 | 4.36E-05 | 4.57E+00 | 3.99E-05 | 1.00E+00 | 0.003986% |
| Max | Ground | Low Boom | Res-adult | 2.00E-01 | 3.52E-05 | 4.57E+00 | 3.22E-05 | 1.00E+00 | 0.003218% |
| Max | Ground | High Boom | Res-adult | 2.00E-01 | 5.82E-05 | 4.57E+00 | 5.32E-05 | 1.00E+00 | 0.005321% |
| Typical | Ground | Low Boom | N.American - child | 2.00E-01 | 2.64E-05 | 4.60E+00 | 2.43E-05 | 1.00E+00 | 0.002429% |
| Typical | Ground | High Boom | N.American - child | 2.00E-01 | 4.36E-05 | 4.60E+00 | 4.01E-05 | 1.00E+00 | 0.004011% |
| Max | Ground | Low Boom | N.American - child | 2.00E-01 | 3.52E-05 | 4.60E+00 | 3.24E-05 | 1.00E+00 | 0.003238% |
| Max | Ground | High Boom | N.American - child | 2.00E-01 | 5.82E-05 | 4.60E+00 | 5.35E-05 | 1.00E+00 | 0.005354% |
| Typical | Ground | Low Boom | N.American - adult | 2.00E-01 | 2.64E-05 | 4.57E+00 | 2.41E-05 | 1.00E+00 | 0.002414% |
| Typical | Ground | High Boom | N.American - adult | 2.00E-01 | 4.36E-05 | 4.57E+00 | 3.99E-05 | 1.00E+00 | 0.003986% |
| Max | Ground | Low Boom | N.American - adult | 2.00E-01 | 3.52E-05 | 4.57E+00 | 3.22E-05 | 1.00E+00 | 0.003218% |
| Max | Ground | High Boom | N.American - adult | 2.00E-01 | 5.82E-05 | 4.57E+00 | 5.32E-05 | 1.00E+00 | 0.005321% |

NA - Not Available.
NC - Not Calculated (No dose-response value).

Calculation: Potential Doses and Margins of Exposure
Scenario: Public Receptors - Routine Exposure
Pathway: Dermal Contact with Water While Swimming - Short-Term Exposure
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Skin Permeablilty Constant (cm/hr) | Short-Term Water Concentration (mg/L) | Unit Correction Factor (L/cm3) | Exposure Factor (cm2-hr/kg-day) | Absorbed Dose (mg/kg-day) | Oral NOAEL (mg/kg-day) Short/Int | Short-Term MOE (unitless) Short/Int |
|---|---|---|---|---|---|---|---|---|---|---|
| Typical | Ground | Low Boom | Swimmer-child | 2.86E-05 | 3.19E-02 | 1.00E-03 | 4.40E+02 | 4.01E-07 | 4.50E+01 | 1.12E+08 |
| Typical | Ground | High Boom | Swimmer-child | 2.86E-05 | 3.19E-02 | 1.00E-03 | 4.40E+02 | 4.02E-07 | 4.50E+01 | 1.12E+08 |
| Max | Ground | Low Boom | Swimmer-child | 2.86E-05 | 5.31E-02 | 1.00E-03 | 4.40E+02 | 6.67E-07 | 4.50E+01 | 6.74E+07 |
| Max | Ground | High Boom | Swimmer-child | 2.86E-05 | 5.32E-02 | 1.00E-03 | 4.40E+02 | 6.69E-07 | 4.50E+01 | 6.73E+07 |
| Typical | Ground | Low Boom | Swimmer-adult | 2.86E-05 | 3.19E-02 | 1.00E-03 | 2.57E+02 | 2.34E-07 | 4.50E+01 | 1.92E+08 |
| Typical | Ground | High Boom | Swimmer-adult | 2.86E-05 | 3.19E-02 | 1.00E-03 | 2.57E+02 | 2.35E-07 | 4.50E+01 | 1.92E+08 |
| Max | Ground | Low Boom | Swimmer-adult | 2.86E-05 | 5.31E-02 | 1.00E-03 | 2.57E+02 | 3.90E-07 | 4.50E+01 | 1.15E+08 |
| Max | Ground | High Boom | Swimmer-adult | 2.86E-05 | 5.32E-02 | 1.00E-03 | 2.57E+02 | 3.91E-07 | 4.50E+01 | 1.15E+08 |
| Typical | Ground | Low Boom | N.American-child | 2.86E-05 | 3.19E-02 | 1.00E-03 | 1.14E+03 | 1.04E-06 | 4.50E+01 | 4.32E+07 |
| Typical | Ground | High Boom | N.American-child | 2.86E-05 | 3.19E-02 | 1.00E-03 | 1.14E+03 | 1.04E-06 | 4.50E+01 | 4.31E+07 |
| Max | Ground | Low Boom | N.American-child | 2.86E-05 | 5.31E-02 | 1.00E-03 | 1.14E+03 | 1.73E-06 | 4.50E+01 | 2.59E+07 |
| Max | Ground | High Boom | N.American-child | 2.86E-05 | 5.32E-02 | 1.00E-03 | 1.14E+03 | 1.74E-06 | 4.50E+01 | 2.59E+07 |
| Typical | Ground | Low Boom | N.American-adult | 2.86E-05 | 3.19E-02 | 1.00E-03 | 6.69E+02 | 6.09E-07 | 4.50E+01 | 7.39E+07 |
| Typical | Ground | High Boom | N.American-adult | 2.86E-05 | 3.19E-02 | 1.00E-03 | 6.69E+02 | 6.10E-07 | 4.50E+01 | 7.37E+07 |
| Max | Ground | Low Boom | N.American-adult | 2.86E-05 | 5.31E-02 | 1.00E-03 | 6.69E+02 | 1.01E-06 | 4.50E+01 | 4.44E+07 |
| Max | Ground | High Boom | N.American-adult | 2.86E-05 | 5.32E-02 | 1.00E-03 | 6.69E+02 | 1.02E-06 | 4.50E+01 | 4.43E+07 |

Calculation: Potential Doses, Margins of Exposure, and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Incidental Ingestion of Water while Swimming - Short-Term Exposure
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Short-Term Water Concentration (mg/L) | Exposure Factor (L/kg-day) | Absorbed Dose (mg/kg-day) | Incidental Ingestion | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Oral NOAEL (mg/kg-day) Short/Int | Short-Term MOE (unitless) Short/Int |
| Typical | Ground | Low Boom | Swimmer-child | 3.19E-02 | 3.33E-03 | 1.06E-04 | 4.50E+01 | 4.24E+05 |
| Typical | Ground | High Boom | Swimmer-child | 3.19E-02 | 3.33E-03 | 1.06E-04 | 4.50E+01 | 4.23E+05 |
| Max | Ground | Low Boom | Swimmer-child | 5.31E-02 | 3.33E-03 | 1.77E-04 | 4.50E+01 | 2.54E+05 |
| Max | Ground | High Boom | Swimmer-child | 5.32E-02 | 3.33E-03 | 1.77E-04 | 4.50E+01 | 2.54E+05 |
| Typical | Ground | Low Boom | Swimmer-adult | 3.19E-02 | 7.14E-04 | 2.28E-05 | 4.50E+01 | 1.98E+06 |
| Typical | Ground | High Boom | Swimmer-adult | 3.19E-02 | 7.14E-04 | 2.28E-05 | 4.50E+01 | 1.97E+06 |
| Max | Ground | Low Boom | Swimmer-adult | 5.31E-02 | 7.14E-04 | 3.79E-05 | 4.50E+01 | 1.19E+06 |
| Max | Ground | High Boom | Swimmer-adult | 5.32E-02 | 7.14E-04 | 3.80E-05 | 4.50E+01 | 1.18E+06 |

Calculation: Potential Doses, Margins of Exposure, and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Drinking Water Ingestion - Short-Term Exposure
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Short-Term Water Concentration (mg/L) | Exposure Factor (L/kg-day) | Absorbed Dose (mg/kg-day) | Drinking Water | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | PAD (mg/kg-day) Acute | %PAD (unitless) Acute |
| Typical | Ground | Low Boom | Hiker/Hunter | 3.19E-02 | 2.86E-02 | 9.11E-04 | 1.00E+00 | 0.091061% |
| Typical | Ground | High Boom | Hiker/Hunter | 3.19E-02 | 2.86E-02 | 9.13E-04 | 1.00E+00 | 0.091283% |
| Max | Ground | Low Boom | Hiker/Hunter | 5.31E-02 | 2.86E-02 | 1.52E-03 | 1.00E+00 | 0.151647% |
| Max | Ground | High Boom | Hiker/Hunter | 5.32E-02 | 2.86E-02 | 1.52E-03 | 1.00E+00 | 0.151943% |
| Typical | Ground | Low Boom | Berry - child | 3.19E-02 | 6.67E-02 | 2.12E-03 | 1.00E+00 | 0.212476% |
| Typical | Ground | High Boom | Berry - child | 3.19E-02 | 6.67E-02 | 2.13E-03 | 1.00E+00 | 0.212994% |
| Max | Ground | Low Boom | Berry - child | 5.31E-02 | 6.67E-02 | 3.54E-03 | 1.00E+00 | 0.353842% |
| Max | Ground | High Boom | Berry - child | 5.32E-02 | 6.67E-02 | 3.55E-03 | 1.00E+00 | 0.354534% |
| Typical | Ground | Low Boom | Berry - adult | 3.19E-02 | 2.86E-02 | 9.11E-04 | 1.00E+00 | 0.091061% |
| Typical | Ground | High Boom | Berry - adult | 3.19E-02 | 2.86E-02 | 9.13E-04 | 1.00E+00 | 0.091283% |
| Max | Ground | Low Boom | Berry - adult | 5.31E-02 | 2.86E-02 | 1.52E-03 | 1.00E+00 | 0.151647% |
| Max | Ground | High Boom | Berry - adult | 5.32E-02 | 2.86E-02 | 1.52E-03 | 1.00E+00 | 0.151943% |
| Typical | Ground | Low Boom | Angler | 3.19E-02 | 2.86E-02 | 9.11E-04 | 1.00E+00 | 0.091061% |
| Typical | Ground | High Boom | Angler | 3.19E-02 | 2.86E-02 | 9.13E-04 | 1.00E+00 | 0.091283% |
| Max | Ground | Low Boom | Angler | 5.31E-02 | 2.86E-02 | 1.52E-03 | 1.00E+00 | 0.151647% |
| Max | Ground | High Boom | Angler | 5.32E-02 | 2.86E-02 | 1.52E-03 | 1.00E+00 | 0.151943% |
| Typical | Ground | Low Boom | N.American - child | 3.19E-02 | 3.33E-02 | 1.06E-03 | 1.00E+00 | 0.106238% |
| Typical | Ground | High Boom | N.American - child | 3.19E-02 | 3.33E-02 | 1.06E-03 | 1.00E+00 | 0.106497% |
| Max | Ground | Low Boom | N.American - child | 5.31E-02 | 3.33E-02 | 1.77E-03 | 1.00E+00 | 0.176921% |
| Max | Ground | High Boom | N.American - child | 5.32E-02 | 3.33E-02 | 1.77E-03 | 1.00E+00 | 0.177267% |
| Typical | Ground | Low Boom | N.American - adult | 3.19E-02 | 1.43E-02 | 4.55E-04 | 1.00E+00 | 0.045530% |
| Typical | Ground | High Boom | N.American - adult | 3.19E-02 | 1.43E-02 | 4.56E-04 | 1.00E+00 | 0.045642% |
| Max | Ground | Low Boom | N.American - adult | 5.31E-02 | 1.43E-02 | 7.58E-04 | 1.00E+00 | 0.075823% |
| Max | Ground | High Boom | N.American - adult | 5.32E-02 | 1.43E-02 | 7.60E-04 | 1.00E+00 | 0.075971% |

NA - Not Available.
NC - Not Calculated (No dose-response value).

Calculation: Potential Doses and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Ingestion of Fish - Short-Term Exposure
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Short-Term Water Concentration (mg/L) | Bioconcentration Factor (L/kg) | Unit Correction Factor (kg/mg) | Exposure Factor (mg/kg-day) | Absorbed Dose (mg/kg-day) | PAD (mg/kg-day) Acute | %PAD (unitless) Acute |
|---|---|---|---|---|---|---|---|---|---|---|
| Typical | Ground | Low Boom | Angler | 3.19E-02 | 2.88E+01 | 1.00E-06 | 9.00E+02 | 8.26E-04 | 1.00E+00 | 0.082553% |
| Typical | Ground | High Boom | Angler | 3.19E-02 | 2.88E+01 | 1.00E-06 | 9.00E+02 | 8.28E-04 | 1.00E+00 | 0.082755% |
| Max | Ground | Low Boom | Angler | 5.31E-02 | 2.88E+01 | 1.00E-06 | 9.00E+02 | 1.37E-03 | 1.00E+00 | 0.137478% |
| Max | Ground | High Boom | Angler | 5.32E-02 | 2.88E+01 | 1.00E-06 | 9.00E+02 | 1.38E-03 | 1.00E+00 | 0.137747% |
| Typical | Ground | Low Boom | N.American - child | 3.19E-02 | 2.88E+01 | 1.00E-06 | 1.27E+04 | 1.16E-02 | 1.00E+00 | 1.161859% |
| Typical | Ground | High Boom | N.American - child | 3.19E-02 | 2.88E+01 | 1.00E-06 | 1.27E+04 | 1.16E-02 | 1.00E+00 | 1.164693% |
| Max | Ground | Low Boom | N.American - child | 5.31E-02 | 2.88E+01 | 1.00E-06 | 1.27E+04 | 1.93E-02 | 1.00E+00 | 1.934881% |
| Max | Ground | High Boom | N.American - child | 5.32E-02 | 2.88E+01 | 1.00E-06 | 1.27E+04 | 1.94E-02 | 1.00E+00 | 1.938660% |
| Typical | Ground | Low Boom | N.American - adult | 3.19E-02 | 2.88E+01 | 1.00E-06 | 1.26E+04 | 1.16E-02 | 1.00E+00 | 1.159675% |
| Typical | Ground | High Boom | N.American - adult | 3.19E-02 | 2.88E+01 | 1.00E-06 | 1.26E+04 | 1.16E-02 | 1.00E+00 | 1.162504% |
| Max | Ground | Low Boom | N.American - adult | 5.31E-02 | 2.88E+01 | 1.00E-06 | 1.26E+04 | 1.93E-02 | 1.00E+00 | 1.931244% |
| Max | Ground | High Boom | N.American - adult | 5.32E-02 | 2.88E+01 | 1.00E-06 | 1.26E+04 | 1.94E-02 | 1.00E+00 | 1.935016% |

NA - Not Available.
NC - Not Calculated (No dose-response value).

Calculation: Aggregrate Risk Index - Short Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| | | | | | Dermal Exposure Pathways | | | Incidental Ingestion | Dietary Exposure Pathways | | | Short-Term |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Short-Term Dermal | | Short/Int Term Oral | Short/Int Term Oral | Acute | Acute | Acute | Aggregate |
| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Target MOE | Drift MOE | Foliage MOE | Water MOE | Water MOE | Water %PAD | Berries %PAD | Fish %PAD | Risk Index |
| Typical | Ground | Low Boom | Hiker/Hunter | 1.00E+02 | 1.77E+05 | 1.99E+06 | -- | -- | 0.091061% | -- | -- | 6.55E+02 |
| Typical | Ground | High Boom | Hiker/Hunter | 1.00E+02 | 1.07E+05 | 1.20E+06 | -- | -- | 0.091283% | -- | -- | 5.18E+02 |
| Max | Ground | Low Boom | Hiker/Hunter | 1.00E+02 | 1.32E+05 | 1.49E+06 | -- | -- | 0.151647% | -- | -- | 4.28E+02 |
| Max | Ground | High Boom | Hiker/Hunter | 1.00E+02 | 8.01E+04 | 9.02E+05 | -- | -- | 0.151943% | -- | -- | 3.47E+02 |
| Typical | Ground | Low Boom | Berry - child | 1.00E+02 | 1.06E+05 | 1.42E+06 | -- | -- | 0.212476% | 0.002429% | -- | 3.16E+02 |
| Typical | Ground | High Boom | Berry - child | 1.00E+02 | 6.42E+04 | 8.60E+05 | -- | -- | 0.212994% | 0.004011% | -- | 2.60E+02 |
| Max | Ground | Low Boom | Berry - child | 1.00E+02 | 7.96E+04 | 1.07E+06 | -- | -- | 0.353842% | 0.003238% | -- | 2.03E+02 |
| Max | Ground | High Boom | Berry - child | 1.00E+02 | 4.81E+04 | 6.44E+05 | -- | -- | 0.354534% | 0.005354% | -- | 1.71E+02 |
| Typical | Ground | Low Boom | Berry - adult | 1.00E+02 | 1.77E+05 | 1.33E+06 | -- | -- | 0.091061% | 0.002414% | -- | 6.34E+02 |
| Typical | Ground | High Boom | Berry - adult | 1.00E+02 | 1.07E+05 | 8.03E+05 | -- | -- | 0.091283% | 0.003986% | -- | 4.97E+02 |
| Max | Ground | Low Boom | Berry - adult | 1.00E+02 | 1.32E+05 | 9.94E+05 | -- | -- | 0.151647% | 0.003218% | -- | 4.16E+02 |
| Max | Ground | High Boom | Berry - adult | 1.00E+02 | 8.01E+04 | 6.01E+05 | -- | -- | 0.151943% | 0.005321% | -- | 3.35E+02 |
| Typical | Ground | Low Boom | Angler | 1.00E+02 | 1.77E+05 | 1.99E+06 | -- | -- | 0.091061% | -- | 0.082553% | 4.25E+02 |
| Typical | Ground | High Boom | Angler | 1.00E+02 | 1.07E+05 | 1.20E+06 | -- | -- | 0.091283% | -- | 0.082755% | 3.63E+02 |
| Max | Ground | Low Boom | Angler | 1.00E+02 | 1.32E+05 | 1.49E+06 | -- | -- | 0.151647% | -- | 0.137478% | 2.69E+02 |
| Max | Ground | High Boom | Angler | 1.00E+02 | 8.01E+04 | 9.02E+05 | -- | -- | 0.151943% | -- | 0.137747% | 2.35E+02 |
| Typical | Ground | Low Boom | Res-child | 1.00E+02 | 1.06E+05 | 8.19E+04 | -- | -- | -- | 0.002429% | -- | 4.57E+02 |
| Typical | Ground | High Boom | Res-child | 1.00E+02 | 6.42E+04 | 4.96E+04 | -- | -- | -- | 0.004011% | -- | 2.77E+02 |
| Max | Ground | Low Boom | Res-child | 1.00E+02 | 7.96E+04 | 6.15E+04 | -- | -- | -- | 0.003238% | -- | 3.43E+02 |
| Max | Ground | High Boom | Res-child | 1.00E+02 | 4.81E+04 | 3.72E+04 | -- | -- | -- | 0.005354% | -- | 2.07E+02 |
| Typical | Ground | Low Boom | Res-adult | 1.00E+02 | 1.77E+05 | 1.37E+05 | -- | -- | -- | 0.002414% | -- | 7.58E+02 |
| Typical | Ground | High Boom | Res-adult | 1.00E+02 | 1.07E+05 | 8.30E+04 | -- | -- | -- | 0.003986% | -- | 4.59E+02 |
| Max | Ground | Low Boom | Res-adult | 1.00E+02 | 1.32E+05 | 1.03E+05 | -- | -- | -- | 0.003218% | -- | 5.68E+02 |
| Max | Ground | High Boom | Res-adult | 1.00E+02 | 8.01E+04 | 6.22E+04 | -- | -- | -- | 0.005321% | -- | 3.44E+02 |
| Typical | Ground | Low Boom | N.A.-child | 1.00E+02 | 1.06E+05 | 9.47E+05 | 4.32E+07 | -- | 0.106238% | 0.002429% | 1.161859% | 7.27E+01 |
| Typical | Ground | High Boom | N.A.-child | 1.00E+02 | 6.42E+04 | 5.73E+05 | 4.31E+07 | -- | 0.106497% | 0.004011% | 1.164693% | 6.90E+01 |
| Max | Ground | Low Boom | N.A.-child | 1.00E+02 | 7.96E+04 | 7.10E+05 | 2.59E+07 | -- | 0.176921% | 0.003238% | 1.934881% | 4.43E+01 |
| Max | Ground | High Boom | N.A.-child | 1.00E+02 | 4.81E+04 | 4.30E+05 | 2.59E+07 | -- | 0.177267% | 0.005354% | 1.938660% | 4.25E+01 |
| Typical | Ground | Low Boom | N.A.-adult | 1.00E+02 | 1.77E+05 | 8.84E+05 | 7.39E+07 | -- | 0.045530% | 0.002414% | 1.159675% | 7.84E+01 |
| Typical | Ground | High Boom | N.A.-adult | 1.00E+02 | 1.07E+05 | 5.35E+05 | 7.37E+07 | -- | 0.045642% | 0.003986% | 1.162504% | 7.55E+01 |
| Max | Ground | Low Boom | N.A.-adult | 1.00E+02 | 1.32E+05 | 6.63E+05 | 4.44E+07 | -- | 0.075823% | 0.003218% | 1.931244% | 4.76E+01 |
| Max | Ground | High Boom | N.A.-adult | 1.00E+02 | 8.01E+04 | 4.01E+05 | 4.43E+07 | -- | 0.075971% | 0.005321% | 1.935016% | 4.62E+01 |
| Typical | Ground | Low Boom | Swimmer-child | 1.00E+02 | -- | -- | 1.12E+08 | 4.24E+05 | -- | -- | -- | 4.22E+03 |
| Typical | Ground | High Boom | Swimmer-child | 1.00E+02 | -- | -- | 1.12E+08 | 4.23E+05 | -- | -- | -- | 4.21E+03 |
| Max | Ground | Low Boom | Swimmer-child | 1.00E+02 | -- | -- | 6.74E+07 | 2.54E+05 | -- | -- | -- | 2.53E+03 |
| Max | Ground | High Boom | Swimmer-child | 1.00E+02 | -- | -- | 6.73E+07 | 2.54E+05 | -- | -- | -- | 2.53E+03 |
| Typical | Ground | Low Boom | Swimmer-adult | 1.00E+02 | -- | -- | 1.92E+08 | 1.98E+06 | -- | -- | -- | 1.96E+04 |
| Typical | Ground | High Boom | Swimmer-adult | 1.00E+02 | -- | -- | 1.92E+08 | 1.97E+06 | -- | -- | -- | 1.95E+04 |

Calculation: Aggregrate Risk Index - Short Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Dicamba
Program: Rangeland, Energy/Mineral, Rights-of-Way, Recreation/Cultural

| Scenario: | AgDrift Scenario | Equipment | Public Receptor | Target MOE | Dermal Exposure Pathways | | | Incidental Ingestion | Dietary Exposure Pathways | | | Short-Term Aggregate Risk Index |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Short-Term Dermal | | Short/Int Term Oral | Short/Int Term Oral | Acute | Acute | Acute | |
| | | | | | Drift MOE | Foliage MOE | Water MOE | Water MOE | Water %PAD | Berries %PAD | Fish %PAD | |
| Max | Ground | Low Boom | Swimmer-adult | 1.00E+02 | -- | -- | 1.15E+08 | 1.19E+06 | -- | -- | -- | 1.17E+04 |
| Max | Ground | High Boom | Swimmer-adult | 1.00E+02 | -- | -- | 1.15E+08 | 1.18E+06 | -- | -- | -- | 1.17E+04 |

--Receptor not exposed via this pathway.
NA - Not Available.
NC - Not Calculated (No dose-response value).