APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Ingestion of Fish
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	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) Chronic	%PAD (unitless) Chronic
Typical	Aerial	Agricultural	Plane	Angler	8.08E-03	1.03E+00	1.00E-06	9.00E+02	7.49E-06	5.00E-03	0.15%
Typical	Aerial	Agricultural	Helicopter	Angler	6.82E-03	1.03E+00	1.00E-06	9.00E+02	6.32E-06	5.00E-03	0.13%
Typical	Ground	Agricultural	Low Boom	Angler	6.82E-04	1.03E+00	1.00E-06	9.00E+02	6.32E-07	5.00E-03	0.01%
Typical	Ground	Agricultural	High Boom	Angler	1.09E-03	1.03E+00	1.00E-06	9.00E+02	1.01E-06	5.00E-03	0.02%
Max	Aerial	Agricultural	Plane	Angler	3.89E-02	1.03E+00	1.00E-06	9.00E+02	3.61E-05	5.00E-03	0.72%
Max	Aerial	Agricultural	Helicopter	Angler	3.23E-02	1.03E+00	1.00E-06	9.00E+02	2.99E-05	5.00E-03	0.60%
Max	Ground	Agricultural	Low Boom	Angler	2.73E-03	1.03E+00	1.00E-06	9.00E+02	2.53E-06	5.00E-03	0.05%
Max	Ground	Agricultural	High Boom	Angler	4.38E-03	1.03E+00	1.00E-06	9.00E+02	4.06E-06	5.00E-03	0.08%
Typical	Aerial	Agricultural	Plane	N.American - child	8.08E-03	1.03E+00	1.00E-06	1.27E+04	1.05E-04	5.00E-03	2.11%
Typical	Aerial	Agricultural	Helicopter	N.American - child	6.82E-03	1.03E+00	1.00E-06	1.27E+04	8.90E-05	5.00E-03	1.78%
Typical	Ground	Agricultural	Low Boom	N.American - child	6.82E-04	1.03E+00	1.00E-06	1.27E+04	8.90E-06	5.00E-03	0.18%
Typical	Ground	Agricultural	High Boom	N.American - child	1.09E-03	1.03E+00	1.00E-06	1.27E+04	1.42E-05	5.00E-03	0.28%
Max	Aerial	Agricultural	Plane	N.American - child	3.89E-02	1.03E+00	1.00E-06	1.27E+04	5.08E-04	5.00E-03	10.15%
Max	Aerial	Agricultural	Helicopter	N.American - child	3.23E-02	1.03E+00	1.00E-06	1.27E+04	4.21E-04	5.00E-03	8.43%
Max	Ground	Agricultural	Low Boom	N.American - child	2.73E-03	1.03E+00	1.00E-06	1.27E+04	3.56E-05	5.00E-03	0.71%
Max	Ground	Agricultural	High Boom	N.American - child	4.38E-03	1.03E+00	1.00E-06	1.27E+04	5.71E-05	5.00E-03	1.14%
Typical	Aerial	Agricultural	Plane	N.American - adult	8.08E-03	1.03E+00	1.00E-06	1.26E+04	1.05E-04	5.00E-03	2.10%
Typical	Aerial	Agricultural	Helicopter	N.American - adult	6.82E-03	1.03E+00	1.00E-06	1.26E+04	8.88E-05	5.00E-03	1.78%
Typical	Ground	Agricultural	Low Boom	N.American - adult	6.82E-04	1.03E+00	1.00E-06	1.26E+04	8.88E-06	5.00E-03	0.18%
Typical	Ground	Agricultural	High Boom	N.American - adult	1.09E-03	1.03E+00	1.00E-06	1.26E+04	1.42E-05	5.00E-03	0.28%
Max	Aerial	Agricultural	Plane	N.American - adult	3.89E-02	1.03E+00	1.00E-06	1.26E+04	5.07E-04	5.00E-03	10.13%
Max	Aerial	Agricultural	Helicopter	N.American - adult	3.23E-02	1.03E+00	1.00E-06	1.26E+04	4.21E-04	5.00E-03	8.41%
Max	Ground	Agricultural	Low Boom	N.American - adult	2.73E-03	1.03E+00	1.00E-06	1.26E+04	3.56E-05	5.00E-03	0.71%
Max	Ground	Agricultural	High Boom	N.American - adult	4.38E-03	1.03E+00	1.00E-06	1.26E+04	5.70E-05	5.00E-03	1.14%

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Margins of Exposure
Scenario: Public Receptors - Routine Exposure
Pathway: Dermal Contact with Foliage
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	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)		MOE (unitless)	
											Int	Long	Int	Long
Typical	Aerial	Agricultural	Plane	Hiker/Hunter	2.00E-01	4.10E-02	1.10E-03	2.20E-04	2.86E+01	2.58E-04	5.00E-01	5.00E-01	1.94E+03	1.94E+03
Typical	Aerial	Agricultural	Helicopter	Hiker/Hunter	2.00E-01	4.10E-02	1.00E-03	2.00E-04	2.86E+01	2.34E-04	5.00E-01	5.00E-01	2.13E+03	2.13E+03
Typical	Ground	Agricultural	Low Boom	Hiker/Hunter	2.00E-01	4.10E-02	1.00E-04	2.00E-05	2.86E+01	2.34E-05	5.00E-01	5.00E-01	2.13E+04	2.13E+04
Typical	Ground	Agricultural	High Boom	Hiker/Hunter	2.00E-01	4.10E-02	2.00E-04	4.00E-05	2.86E+01	4.69E-05	5.00E-01	5.00E-01	1.07E+04	1.07E+04
Max	Aerial	Agricultural	Plane	Hiker/Hunter	2.00E-01	4.10E-02	5.10E-03	1.02E-03	2.86E+01	1.19E-03	5.00E-01	5.00E-01	4.18E+02	4.18E+02
Max	Aerial	Agricultural	Helicopter	Hiker/Hunter	2.00E-01	4.10E-02	4.40E-03	8.80E-04	2.86E+01	1.03E-03	5.00E-01	5.00E-01	4.85E+02	4.85E+02
Max	Ground	Agricultural	Low Boom	Hiker/Hunter	2.00E-01	4.10E-02	6.00E-04	1.20E-04	2.86E+01	1.41E-04	5.00E-01	5.00E-01	3.56E+03	3.56E+03
Max	Ground	Agricultural	High Boom	Hiker/Hunter	2.00E-01	4.10E-02	9.00E-04	1.80E-04	2.86E+01	2.11E-04	5.00E-01	5.00E-01	2.37E+03	2.37E+03
Typical	Aerial	Agricultural	Plane	Berry - child	2.00E-01	4.10E-02	1.10E-03	2.20E-04	4.00E+01	3.61E-04	5.00E-01	5.00E-01	1.39E+03	1.39E+03
Typical	Aerial	Agricultural	Helicopter	Berry - child	2.00E-01	4.10E-02	1.00E-03	2.00E-04	4.00E+01	3.28E-04	5.00E-01	5.00E-01	1.52E+03	1.52E+03
Typical	Ground	Agricultural	Low Boom	Berry - child	2.00E-01	4.10E-02	1.00E-04	2.00E-05	4.00E+01	3.28E-05	5.00E-01	5.00E-01	1.52E+04	1.52E+04
Typical	Ground	Agricultural	High Boom	Berry - child	2.00E-01	4.10E-02	2.00E-04	4.00E-05	4.00E+01	6.56E-05	5.00E-01	5.00E-01	7.62E+03	7.62E+03
Max	Aerial	Agricultural	Plane	Berry - child	2.00E-01	4.10E-02	5.10E-03	1.02E-03	4.00E+01	1.67E-03	5.00E-01	5.00E-01	2.99E+02	2.99E+02
Max	Aerial	Agricultural	Helicopter	Berry - child	2.00E-01	4.10E-02	4.40E-03	8.80E-04	4.00E+01	1.44E-03	5.00E-01	5.00E-01	3.46E+02	3.46E+02
Max	Ground	Agricultural	Low Boom	Berry - child	2.00E-01	4.10E-02	6.00E-04	1.20E-04	4.00E+01	1.97E-04	5.00E-01	5.00E-01	2.54E+03	2.54E+03
Max	Ground	Agricultural	High Boom	Berry - child	2.00E-01	4.10E-02	9.00E-04	1.80E-04	4.00E+01	2.95E-04	5.00E-01	5.00E-01	1.69E+03	1.69E+03
Typical	Aerial	Agricultural	Plane	Berry - adult	2.00E-01	4.10E-02	1.10E-03	2.20E-04	4.29E+01	3.87E-04	5.00E-01	5.00E-01	1.29E+03	1.29E+03
Typical	Aerial	Agricultural	Helicopter	Berry - adult	2.00E-01	4.10E-02	1.00E-03	2.00E-04	4.29E+01	3.51E-04	5.00E-01	5.00E-01	1.42E+03	1.42E+03
Typical	Ground	Agricultural	Low Boom	Berry - adult	2.00E-01	4.10E-02	1.00E-04	2.00E-05	4.29E+01	3.51E-05	5.00E-01	5.00E-01	1.42E+04	1.42E+04
Typical	Ground	Agricultural	High Boom	Berry - adult	2.00E-01	4.10E-02	2.00E-04	4.00E-05	4.29E+01	7.03E-05	5.00E-01	5.00E-01	7.11E+03	7.11E+03
Max	Aerial	Agricultural	Plane	Berry - adult	2.00E-01	4.10E-02	5.10E-03	1.02E-03	4.29E+01	1.79E-03	5.00E-01	5.00E-01	2.79E+02	2.79E+02
Max	Aerial	Agricultural	Helicopter	Berry - adult	2.00E-01	4.10E-02	4.40E-03	8.80E-04	4.29E+01	1.55E-03	5.00E-01	5.00E-01	3.23E+02	3.23E+02
Max	Ground	Agricultural	Low Boom	Berry - adult	2.00E-01	4.10E-02	6.00E-04	1.20E-04	4.29E+01	2.11E-04	5.00E-01	5.00E-01	2.37E+03	2.37E+03
Max	Ground	Agricultural	High Boom	Berry - adult	2.00E-01	4.10E-02	9.00E-04	1.80E-04	4.29E+01	3.16E-04	5.00E-01	5.00E-01	1.58E+03	1.58E+03
Typical	Aerial	Agricultural	Plane	Angler	2.00E-01	4.10E-02	1.10E-03	2.20E-04	2.86E+01	2.58E-04	5.00E-01	5.00E-01	1.94E+03	1.94E+03
Typical	Aerial	Agricultural	Helicopter	Angler	2.00E-01	4.10E-02	1.00E-03	2.00E-04	2.86E+01	2.34E-04	5.00E-01	5.00E-01	2.13E+03	2.13E+03
Typical	Ground	Agricultural	Low Boom	Angler	2.00E-01	4.10E-02	1.00E-04	2.00E-05	2.86E+01	2.34E-05	5.00E-01	5.00E-01	2.13E+04	2.13E+04
Typical	Ground	Agricultural	High Boom	Angler	2.00E-01	4.10E-02	2.00E-04	4.00E-05	2.86E+01	4.69E-05	5.00E-01	5.00E-01	1.07E+04	1.07E+04
Max	Aerial	Agricultural	Plane	Angler	2.00E-01	4.10E-02	5.10E-03	1.02E-03	2.86E+01	1.19E-03	5.00E-01	5.00E-01	4.18E+02	4.18E+02
Max	Aerial	Agricultural	Helicopter	Angler	2.00E-01	4.10E-02	4.40E-03	8.80E-04	2.86E+01	1.03E-03	5.00E-01	5.00E-01	4.85E+02	4.85E+02
Max	Ground	Agricultural	Low Boom	Angler	2.00E-01	4.10E-02	6.00E-04	1.20E-04	2.86E+01	1.41E-04	5.00E-01	5.00E-01	3.56E+03	3.56E+03
Max	Ground	Agricultural	High Boom	Angler	2.00E-01	4.10E-02	9.00E-04	1.80E-04	2.86E+01	2.11E-04	5.00E-01	5.00E-01	2.37E+03	2.37E+03

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Margins of Exposure
Scenario: Public Receptors - Routine Exposure
Pathway: Dermal Contact with Foliage
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	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)		MOE (unitless)	
											Int	Long	Int	Long
Typical	Aerial	Agricultural	Plane	Res-child	2.00E-01	4.10E-02	1.10E-03	2.20E-04	6.93E+02	6.25E-03	5.00E-01	5.00E-01	8.00E+01	8.00E+01
Typical	Aerial	Agricultural	Helicopter	Res-child	2.00E-01	4.10E-02	1.00E-03	2.00E-04	6.93E+02	5.69E-03	5.00E-01	5.00E-01	8.79E+01	8.79E+01
Typical	Ground	Agricultural	Low Boom	Res-child	2.00E-01	4.10E-02	1.00E-04	2.00E-05	6.93E+02	5.69E-04	5.00E-01	5.00E-01	8.79E+02	8.79E+02
Typical	Ground	Agricultural	High Boom	Res-child	2.00E-01	4.10E-02	2.00E-04	4.00E-05	6.93E+02	1.14E-03	5.00E-01	5.00E-01	4.40E+02	4.40E+02
Max	Aerial	Agricultural	Plane	Res-child	2.00E-01	4.10E-02	5.10E-03	1.02E-03	6.93E+02	2.90E-02	5.00E-01	5.00E-01	1.72E+01	1.72E+01
Max	Aerial	Agricultural	Helicopter	Res-child	2.00E-01	4.10E-02	4.40E-03	8.80E-04	6.93E+02	2.50E-02	5.00E-01	5.00E-01	2.00E+01	2.00E+01
Max	Ground	Agricultural	Low Boom	Res-child	2.00E-01	4.10E-02	6.00E-04	1.20E-04	6.93E+02	3.41E-03	5.00E-01	5.00E-01	1.47E+02	1.47E+02
Max	Ground	Agricultural	High Boom	Res-child	2.00E-01	4.10E-02	9.00E-04	1.80E-04	6.93E+02	5.12E-03	5.00E-01	5.00E-01	9.77E+01	9.77E+01
Typical	Aerial	Agricultural	Plane	Res-adult	2.00E-01	4.10E-02	1.10E-03	2.20E-04	4.14E+02	3.74E-03	5.00E-01	5.00E-01	1.34E+02	1.34E+02
Typical	Aerial	Agricultural	Helicopter	Res-adult	2.00E-01	4.10E-02	1.00E-03	2.00E-04	4.14E+02	3.40E-03	5.00E-01	5.00E-01	1.47E+02	1.47E+02
Typical	Ground	Agricultural	Low Boom	Res-adult	2.00E-01	4.10E-02	1.00E-04	2.00E-05	4.14E+02	3.40E-04	5.00E-01	5.00E-01	1.47E+03	1.47E+03
Typical	Ground	Agricultural	High Boom	Res-adult	2.00E-01	4.10E-02	2.00E-04	4.00E-05	4.14E+02	6.79E-04	5.00E-01	5.00E-01	7.36E+02	7.36E+02
Max	Aerial	Agricultural	Plane	Res-adult	2.00E-01	4.10E-02	5.10E-03	1.02E-03	4.14E+02	1.73E-02	5.00E-01	5.00E-01	2.89E+01	2.89E+01
Max	Aerial	Agricultural	Helicopter	Res-adult	2.00E-01	4.10E-02	4.40E-03	8.80E-04	4.14E+02	1.49E-02	5.00E-01	5.00E-01	3.35E+01	3.35E+01
Max	Ground	Agricultural	Low Boom	Res-adult	2.00E-01	4.10E-02	6.00E-04	1.20E-04	4.14E+02	2.04E-03	5.00E-01	5.00E-01	2.45E+02	2.45E+02
Max	Ground	Agricultural	High Boom	Res-adult	2.00E-01	4.10E-02	9.00E-04	1.80E-04	4.14E+02	3.06E-03	5.00E-01	5.00E-01	1.64E+02	1.64E+02
Typical	Aerial	Agricultural	Plane	N.A.-child	2.00E-01	4.10E-02	1.10E-03	2.20E-04	6.00E+01	5.41E-04	5.00E-01	5.00E-01	9.24E+02	9.24E+02
Typical	Aerial	Agricultural	Helicopter	N.A.-child	2.00E-01	4.10E-02	1.00E-03	2.00E-04	6.00E+01	4.92E-04	5.00E-01	5.00E-01	1.02E+03	1.02E+03
Typical	Ground	Agricultural	Low Boom	N.A.-child	2.00E-01	4.10E-02	1.00E-04	2.00E-05	6.00E+01	4.92E-05	5.00E-01	5.00E-01	1.02E+04	1.02E+04
Typical	Ground	Agricultural	High Boom	N.A.-child	2.00E-01	4.10E-02	2.00E-04	4.00E-05	6.00E+01	9.84E-05	5.00E-01	5.00E-01	5.08E+03	5.08E+03
Max	Aerial	Agricultural	Plane	N.A.-child	2.00E-01	4.10E-02	5.10E-03	1.02E-03	6.00E+01	2.51E-03	5.00E-01	5.00E-01	1.99E+02	1.99E+02
Max	Aerial	Agricultural	Helicopter	N.A.-child	2.00E-01	4.10E-02	4.40E-03	8.80E-04	6.00E+01	2.16E-03	5.00E-01	5.00E-01	2.31E+02	2.31E+02
Max	Ground	Agricultural	Low Boom	N.A.-child	2.00E-01	4.10E-02	6.00E-04	1.20E-04	6.00E+01	2.95E-04	5.00E-01	5.00E-01	1.69E+03	1.69E+03
Max	Ground	Agricultural	High Boom	N.A.-child	2.00E-01	4.10E-02	9.00E-04	1.80E-04	6.00E+01	4.43E-04	5.00E-01	5.00E-01	1.13E+03	1.13E+03
Typical	Aerial	Agricultural	Plane	N.A.-adult	2.00E-01	4.10E-02	1.10E-03	2.20E-04	6.43E+01	5.80E-04	5.00E-01	5.00E-01	8.62E+02	8.62E+02
Typical	Aerial	Agricultural	Helicopter	N.A.-adult	2.00E-01	4.10E-02	1.00E-03	2.00E-04	6.43E+01	5.27E-04	5.00E-01	5.00E-01	9.49E+02	9.49E+02
Typical	Ground	Agricultural	Low Boom	N.A.-adult	2.00E-01	4.10E-02	1.00E-04	2.00E-05	6.43E+01	5.27E-05	5.00E-01	5.00E-01	9.49E+03	9.49E+03
Typical	Ground	Agricultural	High Boom	N.A.-adult	2.00E-01	4.10E-02	2.00E-04	4.00E-05	6.43E+01	1.05E-04	5.00E-01	5.00E-01	4.74E+03	4.74E+03
Max	Aerial	Agricultural	Plane	N.A.-adult	2.00E-01	4.10E-02	5.10E-03	1.02E-03	6.43E+01	2.69E-03	5.00E-01	5.00E-01	1.86E+02	1.86E+02
Max	Aerial	Agricultural	Helicopter	N.A.-adult	2.00E-01	4.10E-02	4.40E-03	8.80E-04	6.43E+01	2.32E-03	5.00E-01	5.00E-01	2.16E+02	2.16E+02
Max	Ground	Agricultural	Low Boom	N.A.-adult	2.00E-01	4.10E-02	6.00E-04	1.20E-04	6.43E+01	3.16E-04	5.00E-01	5.00E-01	1.58E+03	1.58E+03
Max	Ground	Agricultural	High Boom	N.A.-adult	2.00E-01	4.10E-02	9.00E-04	1.80E-04	6.43E+01	4.74E-04	5.00E-01	5.00E-01	1.05E+03	1.05E+03

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Ingestion of Berries
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	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) Chronic	%PAD (unitless) Chronic
Typical	Aerial	Agricultural	Plane	Berry - child	2.00E-01	1.10E-03	4.60E+00	1.01E-03	5.00E-03	20.24%
Typical	Aerial	Agricultural	Helicopter	Berry - child	2.00E-01	1.00E-03	4.60E+00	9.20E-04	5.00E-03	18.40%
Typical	Ground	Agricultural	Low Boom	Berry - child	2.00E-01	1.00E-04	4.60E+00	9.20E-05	5.00E-03	1.84%
Typical	Ground	Agricultural	High Boom	Berry - child	2.00E-01	2.00E-04	4.60E+00	1.84E-04	5.00E-03	3.68%
Max	Aerial	Agricultural	Plane	Berry - child	2.00E-01	5.10E-03	4.60E+00	4.69E-03	5.00E-03	93.84%
Max	Aerial	Agricultural	Helicopter	Berry - child	2.00E-01	4.40E-03	4.60E+00	4.05E-03	5.00E-03	80.96%
Max	Ground	Agricultural	Low Boom	Berry - child	2.00E-01	6.00E-04	4.60E+00	5.52E-04	5.00E-03	11.04%
Max	Ground	Agricultural	High Boom	Berry - child	2.00E-01	9.00E-04	4.60E+00	8.28E-04	5.00E-03	16.56%
Typical	Aerial	Agricultural	Plane	Berry - adult	2.00E-01	1.10E-03	4.57E+00	1.01E-03	5.00E-03	20.11%
Typical	Aerial	Agricultural	Helicopter	Berry - adult	2.00E-01	1.00E-03	4.57E+00	9.14E-04	5.00E-03	18.29%
Typical	Ground	Agricultural	Low Boom	Berry - adult	2.00E-01	1.00E-04	4.57E+00	9.14E-05	5.00E-03	1.83%
Typical	Ground	Agricultural	High Boom	Berry - adult	2.00E-01	2.00E-04	4.57E+00	1.83E-04	5.00E-03	3.66%
Max	Aerial	Agricultural	Plane	Berry - adult	2.00E-01	5.10E-03	4.57E+00	4.66E-03	5.00E-03	93.26%
Max	Aerial	Agricultural	Helicopter	Berry - adult	2.00E-01	4.40E-03	4.57E+00	4.02E-03	5.00E-03	80.46%
Max	Ground	Agricultural	Low Boom	Berry - adult	2.00E-01	6.00E-04	4.57E+00	5.49E-04	5.00E-03	10.97%
Max	Ground	Agricultural	High Boom	Berry - adult	2.00E-01	9.00E-04	4.57E+00	8.23E-04	5.00E-03	16.46%
Typical	Aerial	Agricultural	Plane	Res-child	2.00E-01	1.10E-03	4.60E+00	1.01E-03	5.00E-03	20.24%
Typical	Aerial	Agricultural	Helicopter	Res-child	2.00E-01	1.00E-03	4.60E+00	9.20E-04	5.00E-03	18.40%
Typical	Ground	Agricultural	Low Boom	Res-child	2.00E-01	1.00E-04	4.60E+00	9.20E-05	5.00E-03	1.84%
Typical	Ground	Agricultural	High Boom	Res-child	2.00E-01	2.00E-04	4.60E+00	1.84E-04	5.00E-03	3.68%
Max	Aerial	Agricultural	Plane	Res-child	2.00E-01	5.10E-03	4.60E+00	4.69E-03	5.00E-03	93.84%
Max	Aerial	Agricultural	Helicopter	Res-child	2.00E-01	4.40E-03	4.60E+00	4.05E-03	5.00E-03	80.96%
Max	Ground	Agricultural	Low Boom	Res-child	2.00E-01	6.00E-04	4.60E+00	5.52E-04	5.00E-03	11.04%
Max	Ground	Agricultural	High Boom	Res-child	2.00E-01	9.00E-04	4.60E+00	8.28E-04	5.00E-03	16.56%
Typical	Aerial	Agricultural	Plane	Res-adult	2.00E-01	1.10E-03	4.57E+00	1.01E-03	5.00E-03	20.11%
Typical	Aerial	Agricultural	Helicopter	Res-adult	2.00E-01	1.00E-03	4.57E+00	9.14E-04	5.00E-03	18.29%
Typical	Ground	Agricultural	Low Boom	Res-adult	2.00E-01	1.00E-04	4.57E+00	9.14E-05	5.00E-03	1.83%
Typical	Ground	Agricultural	High Boom	Res-adult	2.00E-01	2.00E-04	4.57E+00	1.83E-04	5.00E-03	3.66%
Max	Aerial	Agricultural	Plane	Res-adult	2.00E-01	5.10E-03	4.57E+00	4.66E-03	5.00E-03	93.26%
Max	Aerial	Agricultural	Helicopter	Res-adult	2.00E-01	4.40E-03	4.57E+00	4.02E-03	5.00E-03	80.46%
Max	Ground	Agricultural	Low Boom	Res-adult	2.00E-01	6.00E-04	4.57E+00	5.49E-04	5.00E-03	10.97%
Max	Ground	Agricultural	High Boom	Res-adult	2.00E-01	9.00E-04	4.57E+00	8.23E-04	5.00E-03	16.46%

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Ingestion of Berries
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	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) Chronic	%PAD (unitless) Chronic
Typical	Aerial	Agricultural	Plane	N.American - child	2.00E-01	1.10E-03	4.60E+00	1.01E-03	5.00E-03	20.24%
Typical	Aerial	Agricultural	Helicopter	N.American - child	2.00E-01	1.00E-03	4.60E+00	9.20E-04	5.00E-03	18.40%
Typical	Ground	Agricultural	Low Boom	N.American - child	2.00E-01	1.00E-04	4.60E+00	9.20E-05	5.00E-03	1.84%
Typical	Ground	Agricultural	High Boom	N.American - child	2.00E-01	2.00E-04	4.60E+00	1.84E-04	5.00E-03	3.68%
Max	Aerial	Agricultural	Plane	N.American - child	2.00E-01	5.10E-03	4.60E+00	4.69E-03	5.00E-03	93.84%
Max	Aerial	Agricultural	Helicopter	N.American - child	2.00E-01	4.40E-03	4.60E+00	4.05E-03	5.00E-03	80.96%
Max	Ground	Agricultural	Low Boom	N.American - child	2.00E-01	6.00E-04	4.60E+00	5.52E-04	5.00E-03	11.04%
Max	Ground	Agricultural	High Boom	N.American - child	2.00E-01	9.00E-04	4.60E+00	8.28E-04	5.00E-03	16.56%
Typical	Aerial	Agricultural	Plane	N.American - adult	2.00E-01	1.10E-03	4.57E+00	1.01E-03	5.00E-03	20.11%
Typical	Aerial	Agricultural	Helicopter	N.American - adult	2.00E-01	1.00E-03	4.57E+00	9.14E-04	5.00E-03	18.29%
Typical	Ground	Agricultural	Low Boom	N.American - adult	2.00E-01	1.00E-04	4.57E+00	9.14E-05	5.00E-03	1.83%
Typical	Ground	Agricultural	High Boom	N.American - adult	2.00E-01	2.00E-04	4.57E+00	1.83E-04	5.00E-03	3.66%
Max	Aerial	Agricultural	Plane	N.American - adult	2.00E-01	5.10E-03	4.57E+00	4.66E-03	5.00E-03	93.26%
Max	Aerial	Agricultural	Helicopter	N.American - adult	2.00E-01	4.40E-03	4.57E+00	4.02E-03	5.00E-03	80.46%
Max	Ground	Agricultural	Low Boom	N.American - adult	2.00E-01	6.00E-04	4.57E+00	5.49E-04	5.00E-03	10.97%
Max	Ground	Agricultural	High Boom	N.American - adult	2.00E-01	9.00E-04	4.57E+00	8.23E-04	5.00E-03	16.46%

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Margins of Exposure
Scenario: Public Receptors - Routine Exposure
Pathway: Dermal Contact with Water While Swimming
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Skin Permeablilty Constant (cm/hr)	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) Int	MOE (unitless) Int
Typical	Aerial	Agricultural	Plane	Swimmer-child	7.77E-08	8.08E-03	1.00E-03	4.40E+02	2.76E-10	5.00E-01	1.81E+09
Typical	Aerial	Agricultural	Helicopter	Swimmer-child	7.77E-08	6.82E-03	1.00E-03	4.40E+02	2.33E-10	5.00E-01	2.14E+09
Typical	Ground	Agricultural	Low Boom	Swimmer-child	7.77E-08	6.82E-04	1.00E-03	4.40E+02	2.33E-11	5.00E-01	2.14E+10
Typical	Ground	Agricultural	High Boom	Swimmer-child	7.77E-08	1.09E-03	1.00E-03	4.40E+02	3.73E-11	5.00E-01	1.34E+10
Max	Aerial	Agricultural	Plane	Swimmer-child	7.77E-08	3.89E-02	1.00E-03	4.40E+02	1.33E-09	5.00E-01	3.76E+08
Max	Aerial	Agricultural	Helicopter	Swimmer-child	7.77E-08	3.23E-02	1.00E-03	4.40E+02	1.10E-09	5.00E-01	4.53E+08
Max	Ground	Agricultural	Low Boom	Swimmer-child	7.77E-08	2.73E-03	1.00E-03	4.40E+02	9.33E-11	5.00E-01	5.36E+09
Max	Ground	Agricultural	High Boom	Swimmer-child	7.77E-08	4.38E-03	1.00E-03	4.40E+02	1.50E-10	5.00E-01	3.34E+09
Typical	Aerial	Agricultural	Plane	Swimmer-adult	7.77E-08	8.08E-03	1.00E-03	2.57E+02	1.61E-10	5.00E-01	3.10E+09
Typical	Aerial	Agricultural	Helicopter	Swimmer-adult	7.77E-08	6.82E-03	1.00E-03	2.57E+02	1.36E-10	5.00E-01	3.67E+09
Typical	Ground	Agricultural	Low Boom	Swimmer-adult	7.77E-08	6.82E-04	1.00E-03	2.57E+02	1.36E-11	5.00E-01	3.67E+10
Typical	Ground	Agricultural	High Boom	Swimmer-adult	7.77E-08	1.09E-03	1.00E-03	2.57E+02	2.18E-11	5.00E-01	2.30E+10
Max	Aerial	Agricultural	Plane	Swimmer-adult	7.77E-08	3.89E-02	1.00E-03	2.57E+02	7.77E-10	5.00E-01	6.43E+08
Max	Aerial	Agricultural	Helicopter	Swimmer-adult	7.77E-08	3.23E-02	1.00E-03	2.57E+02	6.45E-10	5.00E-01	7.75E+08
Max	Ground	Agricultural	Low Boom	Swimmer-adult	7.77E-08	2.73E-03	1.00E-03	2.57E+02	5.45E-11	5.00E-01	9.17E+09
Max	Ground	Agricultural	High Boom	Swimmer-adult	7.77E-08	4.38E-03	1.00E-03	2.57E+02	8.75E-11	5.00E-01	5.71E+09
Typical	Aerial	Agricultural	Plane	N.American-child	7.77E-08	8.08E-03	1.00E-03	1.14E+03	7.18E-10	5.00E-01	6.96E+08
Typical	Aerial	Agricultural	Helicopter	N.American-child	7.77E-08	6.82E-03	1.00E-03	1.14E+03	6.06E-10	5.00E-01	8.25E+08
Typical	Ground	Agricultural	Low Boom	N.American-child	7.77E-08	6.82E-04	1.00E-03	1.14E+03	6.06E-11	5.00E-01	8.25E+09
Typical	Ground	Agricultural	High Boom	N.American-child	7.77E-08	1.09E-03	1.00E-03	1.14E+03	9.69E-11	5.00E-01	5.16E+09
Max	Aerial	Agricultural	Plane	N.American-child	7.77E-08	3.89E-02	1.00E-03	1.14E+03	3.46E-09	5.00E-01	1.45E+08
Max	Aerial	Agricultural	Helicopter	N.American-child	7.77E-08	3.23E-02	1.00E-03	1.14E+03	2.87E-09	5.00E-01	1.74E+08
Max	Ground	Agricultural	Low Boom	N.American-child	7.77E-08	2.73E-03	1.00E-03	1.14E+03	2.43E-10	5.00E-01	2.06E+09
Max	Ground	Agricultural	High Boom	N.American-child	7.77E-08	4.38E-03	1.00E-03	1.14E+03	3.89E-10	5.00E-01	1.28E+09
Typical	Aerial	Agricultural	Plane	N.American-adult	7.77E-08	8.08E-03	1.00E-03	6.69E+02	4.20E-10	5.00E-01	1.19E+09
Typical	Aerial	Agricultural	Helicopter	N.American-adult	7.77E-08	6.82E-03	1.00E-03	6.69E+02	3.54E-10	5.00E-01	1.41E+09
Typical	Ground	Agricultural	Low Boom	N.American-adult	7.77E-08	6.82E-04	1.00E-03	6.69E+02	3.54E-11	5.00E-01	1.41E+10
Typical	Ground	Agricultural	High Boom	N.American-adult	7.77E-08	1.09E-03	1.00E-03	6.69E+02	5.66E-11	5.00E-01	8.83E+09
Max	Aerial	Agricultural	Plane	N.American-adult	7.77E-08	3.89E-02	1.00E-03	6.69E+02	2.02E-09	5.00E-01	2.47E+08
Max	Aerial	Agricultural	Helicopter	N.American-adult	7.77E-08	3.23E-02	1.00E-03	6.69E+02	1.68E-09	5.00E-01	2.98E+08
Max	Ground	Agricultural	Low Boom	N.American-adult	7.77E-08	2.73E-03	1.00E-03	6.69E+02	1.42E-10	5.00E-01	3.53E+09
Max	Ground	Agricultural	High Boom	N.American-adult	7.77E-08	4.38E-03	1.00E-03	6.69E+02	2.28E-10	5.00E-01	2.20E+09

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses, Margins of Exposure, and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Incidental Ingestion of Water while Swimming
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Water Concentration (mg/L)	Exposure Factor (L/kg-day)	Absorbed Dose (mg/kg-day)	Incidental Ingestion	
								Oral NOAEL (mg/kg-day) Int	MOE (unitless) Int
Typical	Aerial	Agricultural	Plane	Swimmer-child	8.08E-03	3.33E-03	2.69E-05	5.00E-01	1.86E+04
Typical	Aerial	Agricultural	Helicopter	Swimmer-child	6.82E-03	3.33E-03	2.27E-05	5.00E-01	2.20E+04
Typical	Ground	Agricultural	Low Boom	Swimmer-child	6.82E-04	3.33E-03	2.27E-06	5.00E-01	2.20E+05
Typical	Ground	Agricultural	High Boom	Swimmer-child	1.09E-03	3.33E-03	3.63E-06	5.00E-01	1.38E+05
Max	Aerial	Agricultural	Plane	Swimmer-child	3.89E-02	3.33E-03	1.30E-04	5.00E-01	3.86E+03
Max	Aerial	Agricultural	Helicopter	Swimmer-child	3.23E-02	3.33E-03	1.08E-04	5.00E-01	4.64E+03
Max	Ground	Agricultural	Low Boom	Swimmer-child	2.73E-03	3.33E-03	9.10E-06	5.00E-01	5.49E+04
Max	Ground	Agricultural	High Boom	Swimmer-child	4.38E-03	3.33E-03	1.46E-05	5.00E-01	3.42E+04
Typical	Aerial	Agricultural	Plane	Swimmer-adult	8.08E-03	7.14E-04	5.77E-06	5.00E-01	8.66E+04
Typical	Aerial	Agricultural	Helicopter	Swimmer-adult	6.82E-03	7.14E-04	4.87E-06	5.00E-01	1.03E+05
Typical	Ground	Agricultural	Low Boom	Swimmer-adult	6.82E-04	7.14E-04	4.87E-07	5.00E-01	1.03E+06
Typical	Ground	Agricultural	High Boom	Swimmer-adult	1.09E-03	7.14E-04	7.79E-07	5.00E-01	6.42E+05
Max	Aerial	Agricultural	Plane	Swimmer-adult	3.89E-02	7.14E-04	2.78E-05	5.00E-01	1.80E+04
Max	Aerial	Agricultural	Helicopter	Swimmer-adult	3.23E-02	7.14E-04	2.31E-05	5.00E-01	2.17E+04
Max	Ground	Agricultural	Low Boom	Swimmer-adult	2.73E-03	7.14E-04	1.95E-06	5.00E-01	2.56E+05
Max	Ground	Agricultural	High Boom	Swimmer-adult	4.38E-03	7.14E-04	3.13E-06	5.00E-01	1.60E+05

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses, Margins of Exposure, and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Drinking Water Ingestion
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Water Concentration (mg/L)	Exposure Factor (L/kg-day)	Absorbed Dose (mg/kg-day)	Drinking Water PAD (mg/kg-day) Chronic	Drinking Water %PAD (unitless) Chronic
Typical	Aerial	Agricultural	Plane	Hiker/Hunter	8.08E-03	2.86E-02	2.31E-04	5.00E-03	4.62%
Typical	Aerial	Agricultural	Helicopter	Hiker/Hunter	6.82E-03	2.86E-02	1.95E-04	5.00E-03	3.90%
Typical	Ground	Agricultural	Low Boom	Hiker/Hunter	6.82E-04	2.86E-02	1.95E-05	5.00E-03	0.39%
Typical	Ground	Agricultural	High Boom	Hiker/Hunter	1.09E-03	2.86E-02	3.11E-05	5.00E-03	0.62%
Max	Aerial	Agricultural	Plane	Hiker/Hunter	3.89E-02	2.86E-02	1.11E-03	5.00E-03	22.23%
Max	Aerial	Agricultural	Helicopter	Hiker/Hunter	3.23E-02	2.86E-02	9.23E-04	5.00E-03	18.46%
Max	Ground	Agricultural	Low Boom	Hiker/Hunter	2.73E-03	2.86E-02	7.80E-05	5.00E-03	1.56%
Max	Ground	Agricultural	High Boom	Hiker/Hunter	4.38E-03	2.86E-02	1.25E-04	5.00E-03	2.50%
Typical	Aerial	Agricultural	Plane	Berry - child	8.08E-03	6.67E-02	5.39E-04	5.00E-03	10.77%
Typical	Aerial	Agricultural	Helicopter	Berry - child	6.82E-03	6.67E-02	4.55E-04	5.00E-03	9.09%
Typical	Ground	Agricultural	Low Boom	Berry - child	6.82E-04	6.67E-02	4.55E-05	5.00E-03	0.91%
Typical	Ground	Agricultural	High Boom	Berry - child	1.09E-03	6.67E-02	7.27E-05	5.00E-03	1.45%
Max	Aerial	Agricultural	Plane	Berry - child	3.89E-02	6.67E-02	2.59E-03	5.00E-03	51.87%
Max	Aerial	Agricultural	Helicopter	Berry - child	3.23E-02	6.67E-02	2.15E-03	5.00E-03	43.07%
Max	Ground	Agricultural	Low Boom	Berry - child	2.73E-03	6.67E-02	1.82E-04	5.00E-03	3.64%
Max	Ground	Agricultural	High Boom	Berry - child	4.38E-03	6.67E-02	2.92E-04	5.00E-03	5.84%
Typical	Aerial	Agricultural	Plane	Berry - adult	8.08E-03	2.86E-02	2.31E-04	5.00E-03	4.62%
Typical	Aerial	Agricultural	Helicopter	Berry - adult	6.82E-03	2.86E-02	1.95E-04	5.00E-03	3.90%
Typical	Ground	Agricultural	Low Boom	Berry - adult	6.82E-04	2.86E-02	1.95E-05	5.00E-03	0.39%
Typical	Ground	Agricultural	High Boom	Berry - adult	1.09E-03	2.86E-02	3.11E-05	5.00E-03	0.62%
Max	Aerial	Agricultural	Plane	Berry - adult	3.89E-02	2.86E-02	1.11E-03	5.00E-03	22.23%
Max	Aerial	Agricultural	Helicopter	Berry - adult	3.23E-02	2.86E-02	9.23E-04	5.00E-03	18.46%
Max	Ground	Agricultural	Low Boom	Berry - adult	2.73E-03	2.86E-02	7.80E-05	5.00E-03	1.56%
Max	Ground	Agricultural	High Boom	Berry - adult	4.38E-03	2.86E-02	1.25E-04	5.00E-03	2.50%
Typical	Aerial	Agricultural	Plane	Angler	8.08E-03	2.86E-02	2.31E-04	5.00E-03	4.62%
Typical	Aerial	Agricultural	Helicopter	Angler	6.82E-03	2.86E-02	1.95E-04	5.00E-03	3.90%
Typical	Ground	Agricultural	Low Boom	Angler	6.82E-04	2.86E-02	1.95E-05	5.00E-03	0.39%
Typical	Ground	Agricultural	High Boom	Angler	1.09E-03	2.86E-02	3.11E-05	5.00E-03	0.62%
Max	Aerial	Agricultural	Plane	Angler	3.89E-02	2.86E-02	1.11E-03	5.00E-03	22.23%
Max	Aerial	Agricultural	Helicopter	Angler	3.23E-02	2.86E-02	9.23E-04	5.00E-03	18.46%
Max	Ground	Agricultural	Low Boom	Angler	2.73E-03	2.86E-02	7.80E-05	5.00E-03	1.56%
Max	Ground	Agricultural	High Boom	Angler	4.38E-03	2.86E-02	1.25E-04	5.00E-03	2.50%

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses, Margins of Exposure, and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Drinking Water Ingestion
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Water Concentration (mg/L)	Exposure Factor (L/kg-day)	Absorbed Dose (mg/kg-day)	Drinking Water	
								PAD (mg/kg-day) Chronic	%PAD (unitless) Chronic
Typical	Aerial	Agricultural	Plane	N.American - child	8.08E-03	3.33E-02	2.69E-04	5.00E-03	5.39%
Typical	Aerial	Agricultural	Helicopter	N.American - child	6.82E-03	3.33E-02	2.27E-04	5.00E-03	4.55%
Typical	Ground	Agricultural	Low Boom	N.American - child	6.82E-04	3.33E-02	2.27E-05	5.00E-03	0.45%
Typical	Ground	Agricultural	High Boom	N.American - child	1.09E-03	3.33E-02	3.63E-05	5.00E-03	0.73%
Max	Aerial	Agricultural	Plane	N.American - child	3.89E-02	3.33E-02	1.30E-03	5.00E-03	25.93%
Max	Aerial	Agricultural	Helicopter	N.American - child	3.23E-02	3.33E-02	1.08E-03	5.00E-03	21.53%
Max	Ground	Agricultural	Low Boom	N.American - child	2.73E-03	3.33E-02	9.10E-05	5.00E-03	1.82%
Max	Ground	Agricultural	High Boom	N.American - child	4.38E-03	3.33E-02	1.46E-04	5.00E-03	2.92%
Typical	Aerial	Agricultural	Plane	N.American - adult	8.08E-03	1.43E-02	1.15E-04	5.00E-03	2.31%
Typical	Aerial	Agricultural	Helicopter	N.American - adult	6.82E-03	1.43E-02	9.74E-05	5.00E-03	1.95%
Typical	Ground	Agricultural	Low Boom	N.American - adult	6.82E-04	1.43E-02	9.74E-06	5.00E-03	0.19%
Typical	Ground	Agricultural	High Boom	N.American - adult	1.09E-03	1.43E-02	1.56E-05	5.00E-03	0.31%
Max	Aerial	Agricultural	Plane	N.American - adult	3.89E-02	1.43E-02	5.56E-04	5.00E-03	11.11%
Max	Aerial	Agricultural	Helicopter	N.American - adult	3.23E-02	1.43E-02	4.61E-04	5.00E-03	9.23%
Max	Ground	Agricultural	Low Boom	N.American - adult	2.73E-03	1.43E-02	3.90E-05	5.00E-03	0.78%
Max	Ground	Agricultural	High Boom	N.American - adult	4.38E-03	1.43E-02	6.26E-05	5.00E-03	1.25%

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Potential Doses and Population Adjusted Doses
Scenario: Public Receptors - Routine Exposure
Pathway: Ingestion of Fish
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	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) Chronic	%PAD (unitless) Chronic
Typical	Aerial	Agricultural	Plane	Angler	8.08E-03	1.03E+00	1.00E-06	9.00E+02	7.49E-06	5.00E-03	0.15%
Typical	Aerial	Agricultural	Helicopter	Angler	6.82E-03	1.03E+00	1.00E-06	9.00E+02	6.32E-06	5.00E-03	0.13%
Typical	Ground	Agricultural	Low Boom	Angler	6.82E-04	1.03E+00	1.00E-06	9.00E+02	6.32E-07	5.00E-03	0.01%
Typical	Ground	Agricultural	High Boom	Angler	1.09E-03	1.03E+00	1.00E-06	9.00E+02	1.01E-06	5.00E-03	0.02%
Max	Aerial	Agricultural	Plane	Angler	3.89E-02	1.03E+00	1.00E-06	9.00E+02	3.61E-05	5.00E-03	0.72%
Max	Aerial	Agricultural	Helicopter	Angler	3.23E-02	1.03E+00	1.00E-06	9.00E+02	2.99E-05	5.00E-03	0.60%
Max	Ground	Agricultural	Low Boom	Angler	2.73E-03	1.03E+00	1.00E-06	9.00E+02	2.53E-06	5.00E-03	0.05%
Max	Ground	Agricultural	High Boom	Angler	4.38E-03	1.03E+00	1.00E-06	9.00E+02	4.06E-06	5.00E-03	0.08%
Typical	Aerial	Agricultural	Plane	N.American - child	8.08E-03	1.03E+00	1.00E-06	1.27E+04	1.05E-04	5.00E-03	2.11%
Typical	Aerial	Agricultural	Helicopter	N.American - child	6.82E-03	1.03E+00	1.00E-06	1.27E+04	8.90E-05	5.00E-03	1.78%
Typical	Ground	Agricultural	Low Boom	N.American - child	6.82E-04	1.03E+00	1.00E-06	1.27E+04	8.90E-06	5.00E-03	0.18%
Typical	Ground	Agricultural	High Boom	N.American - child	1.09E-03	1.03E+00	1.00E-06	1.27E+04	1.42E-05	5.00E-03	0.28%
Max	Aerial	Agricultural	Plane	N.American - child	3.89E-02	1.03E+00	1.00E-06	1.27E+04	5.08E-04	5.00E-03	10.15%
Max	Aerial	Agricultural	Helicopter	N.American - child	3.23E-02	1.03E+00	1.00E-06	1.27E+04	4.21E-04	5.00E-03	8.43%
Max	Ground	Agricultural	Low Boom	N.American - child	2.73E-03	1.03E+00	1.00E-06	1.27E+04	3.56E-05	5.00E-03	0.71%
Max	Ground	Agricultural	High Boom	N.American - child	4.38E-03	1.03E+00	1.00E-06	1.27E+04	5.71E-05	5.00E-03	1.14%
Typical	Aerial	Agricultural	Plane	N.American - adult	8.08E-03	1.03E+00	1.00E-06	1.26E+04	1.05E-04	5.00E-03	2.10%
Typical	Aerial	Agricultural	Helicopter	N.American - adult	6.82E-03	1.03E+00	1.00E-06	1.26E+04	8.88E-05	5.00E-03	1.78%
Typical	Ground	Agricultural	Low Boom	N.American - adult	6.82E-04	1.03E+00	1.00E-06	1.26E+04	8.88E-06	5.00E-03	0.18%
Typical	Ground	Agricultural	High Boom	N.American - adult	1.09E-03	1.03E+00	1.00E-06	1.26E+04	1.42E-05	5.00E-03	0.28%
Max	Aerial	Agricultural	Plane	N.American - adult	3.89E-02	1.03E+00	1.00E-06	1.26E+04	5.07E-04	5.00E-03	10.13%
Max	Aerial	Agricultural	Helicopter	N.American - adult	3.23E-02	1.03E+00	1.00E-06	1.26E+04	4.21E-04	5.00E-03	8.41%
Max	Ground	Agricultural	Low Boom	N.American - adult	2.73E-03	1.03E+00	1.00E-06	1.26E+04	3.56E-05	5.00E-03	0.71%
Max	Ground	Agricultural	High Boom	N.American - adult	4.38E-03	1.03E+00	1.00E-06	1.26E+04	5.70E-05	5.00E-03	1.14%

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Aggregrate Risk Index - Intermediate Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Target MOE	Dermal Exposure Pathways			Incidental Ingestion	Dietary Exposure Pathways			Int-Term Aggregate Risk Index
						Intermediate-Term Dermal		Int. Term Oral	Int. Term Oral	Chronic	Chronic	Chronic	
						Drift MOE	Foliage MOE	Water MOE	Water MOE	Water %PAD	Berries %PAD	Fish %PAD	
Typical	Aerial	Agricultural	Plane	Hiker/Hunter	1.00E+02	1.72E+02	1.94E+03	--	--	4.62%	--	--	1.47E+00
Typical	Aerial	Agricultural	Helicopter	Hiker/Hunter	1.00E+02	1.90E+02	2.13E+03	--	--	3.90%	--	--	1.63E+00
Typical	Ground	Agricultural	Low Boom	Hiker/Hunter	1.00E+02	1.90E+03	2.13E+04	--	--	0.39%	--	--	1.63E+01
Typical	Ground	Agricultural	High Boom	Hiker/Hunter	1.00E+02	9.48E+02	1.07E+04	--	--	0.62%	--	--	8.26E+00
Max	Aerial	Agricultural	Plane	Hiker/Hunter	1.00E+02	3.72E+01	4.18E+02	--	--	22.23%	--	--	**3.17E-01**
Max	Aerial	Agricultural	Helicopter	Hiker/Hunter	1.00E+02	4.31E+01	4.85E+02	--	--	18.46%	--	--	**3.69E-01**
Max	Ground	Agricultural	Low Boom	Hiker/Hunter	1.00E+02	3.16E+02	3.56E+03	--	--	1.56%	--	--	2.78E+00
Max	Ground	Agricultural	High Boom	Hiker/Hunter	1.00E+02	2.11E+02	2.37E+03	--	--	2.50%	--	--	1.85E+00
Typical	Aerial	Agricultural	Plane	Berry - child	1.00E+02	1.03E+02	1.39E+03	--	--	10.77%	20.24%	--	**7.41E-01**
Typical	Aerial	Agricultural	Helicopter	Berry - child	1.00E+02	1.14E+02	1.52E+03	--	--	9.09%	18.40%	--	**8.20E-01**
Typical	Ground	Agricultural	Low Boom	Berry - child	1.00E+02	1.14E+03	1.52E+04	--	--	0.91%	1.84%	--	8.20E+00
Typical	Ground	Agricultural	High Boom	Berry - child	1.00E+02	5.69E+02	7.62E+03	--	--	1.45%	3.68%	--	4.16E+00
Max	Aerial	Agricultural	Plane	Berry - child	1.00E+02	2.23E+01	2.99E+02	--	--	51.87%	93.84%	--	**1.59E-01**
Max	Aerial	Agricultural	Helicopter	Berry - child	1.00E+02	2.59E+01	3.46E+02	--	--	43.07%	80.96%	--	**1.85E-01**
Max	Ground	Agricultural	Low Boom	Berry - child	1.00E+02	1.90E+02	2.54E+03	--	--	3.64%	11.04%	--	1.40E+00
Max	Ground	Agricultural	High Boom	Berry - child	1.00E+02	1.26E+02	1.69E+03	--	--	5.84%	16.56%	--	**9.31E-01**
Typical	Aerial	Agricultural	Plane	Berry - adult	1.00E+02	1.72E+02	1.29E+03	--	--	4.62%	20.11%	--	1.11E+00
Typical	Aerial	Agricultural	Helicopter	Berry - adult	1.00E+02	1.90E+02	1.42E+03	--	--	3.90%	18.29%	--	1.22E+00
Typical	Ground	Agricultural	Low Boom	Berry - adult	1.00E+02	1.90E+03	1.42E+04	--	--	0.39%	1.83%	--	1.22E+01
Typical	Ground	Agricultural	High Boom	Berry - adult	1.00E+02	9.48E+02	7.11E+03	--	--	0.62%	3.66%	--	6.16E+00
Max	Aerial	Agricultural	Plane	Berry - adult	1.00E+02	3.72E+01	2.79E+02	--	--	22.23%	93.26%	--	**2.38E-01**
Max	Aerial	Agricultural	Helicopter	Berry - adult	1.00E+02	4.31E+01	3.23E+02	--	--	18.46%	80.46%	--	**2.76E-01**
Max	Ground	Agricultural	Low Boom	Berry - adult	1.00E+02	3.16E+02	2.37E+03	--	--	1.56%	10.97%	--	2.07E+00
Max	Ground	Agricultural	High Boom	Berry - adult	1.00E+02	2.11E+02	1.58E+03	--	--	2.50%	16.46%	--	1.37E+00
Typical	Aerial	Agricultural	Plane	Angler	1.00E+02	1.72E+02	1.94E+03	--	--	4.62%	--	0.15%	1.47E+00
Typical	Aerial	Agricultural	Helicopter	Angler	1.00E+02	1.90E+02	2.13E+03	--	--	3.90%	--	0.13%	1.63E+00
Typical	Ground	Agricultural	Low Boom	Angler	1.00E+02	1.90E+03	2.13E+04	--	--	0.39%	--	0.01%	1.63E+01
Typical	Ground	Agricultural	High Boom	Angler	1.00E+02	9.48E+02	1.07E+04	--	--	0.62%	--	0.02%	8.24E+00
Max	Aerial	Agricultural	Plane	Angler	1.00E+02	3.72E+01	4.18E+02	--	--	22.23%	--	0.72%	**3.17E-01**
Max	Aerial	Agricultural	Helicopter	Angler	1.00E+02	4.31E+01	4.85E+02	--	--	18.46%	--	0.60%	**3.68E-01**
Max	Ground	Agricultural	Low Boom	Angler	1.00E+02	3.16E+02	3.56E+03	--	--	1.56%	--	0.05%	2.77E+00
Max	Ground	Agricultural	High Boom	Angler	1.00E+02	2.11E+02	2.37E+03	--	--	2.50%	--	0.08%	1.84E+00

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Aggregrate Risk Index - Intermediate Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Diquat
Program: Aquatic

Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Target MOE	Dermal Exposure Pathways			Incidental Ingestion	Dietary Exposure Pathways			Int-Term Aggregate Risk Index
						Intermediate-Term Dermal		Int. Term Oral	Int. Term Oral	Chronic	Chronic	Chronic	
						Drift MOE	Foliage MOE	Water MOE	Water MOE	Water %PAD	Berries %PAD	Fish %PAD	
Typical	Aerial	Agricultural	Plane	Res-child	1.00E+02	1.03E+02	8.00E+01	--	--	--	20.24%	--	**4.13E-01**
Typical	Aerial	Agricultural	Helicopter	Res-child	1.00E+02	1.14E+02	8.79E+01	--	--	--	18.40%	--	**4.55E-01**
Typical	Ground	Agricultural	Low Boom	Res-child	1.00E+02	1.14E+03	8.79E+02	--	--	--	1.84%	--	4.55E+00
Typical	Ground	Agricultural	High Boom	Res-child	1.00E+02	5.69E+02	4.40E+02	--	--	--	3.68%	--	2.27E+00
Max	Aerial	Agricultural	Plane	Res-child	1.00E+02	2.23E+01	1.72E+01	--	--	--	93.84%	--	**8.91E-02**
Max	Aerial	Agricultural	Helicopter	Res-child	1.00E+02	2.59E+01	2.00E+01	--	--	--	80.96%	--	**1.03E-01**
Max	Ground	Agricultural	Low Boom	Res-child	1.00E+02	1.90E+02	1.47E+02	--	--	--	11.04%	--	**7.58E-01**
Max	Ground	Agricultural	High Boom	Res-child	1.00E+02	1.26E+02	9.77E+01	--	--	--	16.56%	--	**5.05E-01**
Typical	Aerial	Agricultural	Plane	Res-adult	1.00E+02	1.72E+02	1.34E+02	--	--	--	20.11%	--	**6.54E-01**
Typical	Aerial	Agricultural	Helicopter	Res-adult	1.00E+02	1.90E+02	1.47E+02	--	--	--	18.29%	--	**7.20E-01**
Typical	Ground	Agricultural	Low Boom	Res-adult	1.00E+02	1.90E+03	1.47E+03	--	--	--	1.83%	--	7.20E+00
Typical	Ground	Agricultural	High Boom	Res-adult	1.00E+02	9.48E+02	7.36E+02	--	--	--	3.66%	--	3.60E+00
Max	Aerial	Agricultural	Plane	Res-adult	1.00E+02	3.72E+01	2.89E+01	--	--	--	93.26%	--	**1.41E-01**
Max	Aerial	Agricultural	Helicopter	Res-adult	1.00E+02	4.31E+01	3.35E+01	--	--	--	80.46%	--	**1.64E-01**
Max	Ground	Agricultural	Low Boom	Res-adult	1.00E+02	3.16E+02	2.45E+02	--	--	--	10.97%	--	1.20E+00
Max	Ground	Agricultural	High Boom	Res-adult	1.00E+02	2.11E+02	1.64E+02	--	--	--	16.46%	--	**7.99E-01**
Typical	Aerial	Agricultural	Plane	N.A.-child	1.00E+02	1.03E+02	9.24E+02	6.96E+08	--	5.39%	20.24%	2.11%	**7.40E-01**
Typical	Aerial	Agricultural	Helicopter	N.A.-child	1.00E+02	1.14E+02	1.02E+03	8.25E+08	--	4.55%	18.40%	1.78%	**8.17E-01**
Typical	Ground	Agricultural	Low Boom	N.A.-child	1.00E+02	1.14E+03	1.02E+04	8.25E+09	--	0.45%	1.84%	0.18%	8.17E+00
Typical	Ground	Agricultural	High Boom	N.A.-child	1.00E+02	5.69E+02	5.08E+03	5.16E+09	--	0.73%	3.68%	0.28%	4.13E+00
Max	Aerial	Agricultural	Plane	N.A.-child	1.00E+02	2.23E+01	1.99E+02	1.45E+08	--	25.93%	93.84%	10.15%	**1.59E-01**
Max	Aerial	Agricultural	Helicopter	N.A.-child	1.00E+02	2.59E+01	2.31E+02	1.74E+08	--	21.53%	80.96%	8.43%	**1.85E-01**
Max	Ground	Agricultural	Low Boom	N.A.-child	1.00E+02	1.90E+02	1.69E+03	2.06E+09	--	1.82%	11.04%	0.71%	1.39E+00
Max	Ground	Agricultural	High Boom	N.A.-child	1.00E+02	1.26E+02	1.13E+03	1.28E+09	--	2.92%	16.56%	1.14%	**9.21E-01**
Typical	Aerial	Agricultural	Plane	N.A.-adult	1.00E+02	1.72E+02	8.62E+02	1.19E+09	--	2.31%	20.11%	2.10%	1.06E+00
Typical	Aerial	Agricultural	Helicopter	N.A.-adult	1.00E+02	1.90E+02	9.49E+02	1.41E+09	--	1.95%	18.29%	1.78%	1.17E+00
Typical	Ground	Agricultural	Low Boom	N.A.-adult	1.00E+02	1.90E+03	9.49E+03	1.41E+10	--	0.19%	1.83%	0.18%	1.17E+01
Typical	Ground	Agricultural	High Boom	N.A.-adult	1.00E+02	9.48E+02	4.74E+03	8.83E+09	--	0.31%	3.66%	0.28%	5.91E+00
Max	Aerial	Agricultural	Plane	N.A.-adult	1.00E+02	3.72E+01	1.86E+02	2.47E+08	--	11.11%	93.26%	10.13%	**2.29E-01**
Max	Aerial	Agricultural	Helicopter	N.A.-adult	1.00E+02	4.31E+01	2.16E+02	2.98E+08	--	9.23%	80.46%	8.41%	**2.66E-01**
Max	Ground	Agricultural	Low Boom	N.A.-adult	1.00E+02	3.16E+02	1.58E+03	3.53E+09	--	0.78%	10.97%	0.71%	1.98E+00
Max	Ground	Agricultural	High Boom	N.A.-adult	1.00E+02	2.11E+02	1.05E+03	2.20E+09	--	1.25%	16.46%	1.14%	1.32E+00

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Aggregrate Risk Index - Intermediate Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Diquat
Program: Aquatic

						Dermal Exposure Pathways			Incidental Ingestion	Dietary Exposure Pathways			Int-Term
						Intermediate-Term Dermal		Int. Term Oral	Int. Term Oral	Chronic	Chronic	Chronic	Aggregate
Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Target MOE	Drift MOE	Foliage MOE	Water MOE	Water MOE	Water %PAD	Berries %PAD	Fish %PAD	Risk Index
Typical	Aerial	Agricultural	Plane	Swimmer-child	1.00E+02	--	--	1.81E+09	1.86E+04	--	--	--	1.86E+02
Typical	Aerial	Agricultural	Helicopter	Swimmer-child	1.00E+02	--	--	2.14E+09	2.20E+04	--	--	--	2.20E+02
Typical	Ground	Agricultural	Low Boom	Swimmer-child	1.00E+02	--	--	2.14E+10	2.20E+05	--	--	--	2.20E+03
Typical	Ground	Agricultural	High Boom	Swimmer-child	1.00E+02	--	--	1.34E+10	1.38E+05	--	--	--	1.38E+03
Max	Aerial	Agricultural	Plane	Swimmer-child	1.00E+02	--	--	3.76E+08	3.86E+03	--	--	--	3.86E+01
Max	Aerial	Agricultural	Helicopter	Swimmer-child	1.00E+02	--	--	4.53E+08	4.64E+03	--	--	--	4.64E+01
Max	Ground	Agricultural	Low Boom	Swimmer-child	1.00E+02	--	--	5.36E+09	5.49E+04	--	--	--	5.49E+02
Max	Ground	Agricultural	High Boom	Swimmer-child	1.00E+02	--	--	3.34E+09	3.42E+04	--	--	--	3.42E+02
Typical	Aerial	Agricultural	Plane	Swimmer-adult	1.00E+02	--	--	3.10E+09	8.66E+04	--	--	--	8.66E+02
Typical	Aerial	Agricultural	Helicopter	Swimmer-adult	1.00E+02	--	--	3.67E+09	1.03E+05	--	--	--	1.03E+03
Typical	Ground	Agricultural	Low Boom	Swimmer-adult	1.00E+02	--	--	3.67E+10	1.03E+06	--	--	--	1.03E+04
Typical	Ground	Agricultural	High Boom	Swimmer-adult	1.00E+02	--	--	2.30E+10	6.42E+05	--	--	--	6.42E+03
Max	Aerial	Agricultural	Plane	Swimmer-adult	1.00E+02	--	--	6.43E+08	1.80E+04	--	--	--	1.80E+02
Max	Aerial	Agricultural	Helicopter	Swimmer-adult	1.00E+02	--	--	7.75E+08	2.17E+04	--	--	--	2.17E+02
Max	Ground	Agricultural	Low Boom	Swimmer-adult	1.00E+02	--	--	9.17E+09	2.56E+05	--	--	--	2.56E+03
Max	Ground	Agricultural	High Boom	Swimmer-adult	1.00E+02	--	--	5.71E+09	1.60E+05	--	--	--	1.60E+03

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Aggregrate Risk Index - Long Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Diquat
Program: Aquatic

						Dermal Exposure Pathways			Incidental Ingestion	Dietary Exposure Pathways			Long-Term
						Long-Term Dermal		Int. Term Oral	Int. Term Oral	Chronic	Chronic	Chronic	Aggregate
Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Target MOE	Drift MOE	Foliage MOE	Water MOE	Water MOE	Water %PAD	Berries %PAD	Fish %PAD	Risk Index
Typical	Aerial	Agricultural	Plane	Hiker/Hunter	1.00E+02	1.72E+02	1.94E+03	--	--	4.62%	--	--	1.47E+00
Typical	Aerial	Agricultural	Helicopter	Hiker/Hunter	1.00E+02	1.90E+02	2.13E+03	--	--	3.90%	--	--	1.63E+00
Typical	Ground	Agricultural	Low Boom	Hiker/Hunter	1.00E+02	1.90E+03	2.13E+04	--	--	0.39%	--	--	1.63E+01
Typical	Ground	Agricultural	High Boom	Hiker/Hunter	1.00E+02	9.48E+02	1.07E+04	--	--	0.62%	--	--	8.26E+00
Max	Aerial	Agricultural	Plane	Hiker/Hunter	1.00E+02	3.72E+01	4.18E+02	--	--	22.23%	--	--	**3.17E-01**
Max	Aerial	Agricultural	Helicopter	Hiker/Hunter	1.00E+02	4.31E+01	4.85E+02	--	--	18.46%	--	--	**3.69E-01**
Max	Ground	Agricultural	Low Boom	Hiker/Hunter	1.00E+02	3.16E+02	3.56E+03	--	--	1.56%	--	--	2.78E+00
Max	Ground	Agricultural	High Boom	Hiker/Hunter	1.00E+02	2.11E+02	2.37E+03	--	--	2.50%	--	--	1.85E+00
Typical	Aerial	Agricultural	Plane	Berry - child	1.00E+02	1.03E+02	1.39E+03	--	--	10.77%	20.24%	--	**7.41E-01**
Typical	Aerial	Agricultural	Helicopter	Berry - child	1.00E+02	1.14E+02	1.52E+03	--	--	9.09%	18.40%	--	**8.20E-01**
Typical	Ground	Agricultural	Low Boom	Berry - child	1.00E+02	1.14E+03	1.52E+04	--	--	0.91%	1.84%	--	8.20E+00
Typical	Ground	Agricultural	High Boom	Berry - child	1.00E+02	5.69E+02	7.62E+03	--	--	1.45%	3.68%	--	4.16E+00
Max	Aerial	Agricultural	Plane	Berry - child	1.00E+02	2.23E+01	2.99E+02	--	--	51.87%	93.84%	--	**1.59E-01**
Max	Aerial	Agricultural	Helicopter	Berry - child	1.00E+02	2.59E+01	3.46E+02	--	--	43.07%	80.96%	--	**1.85E-01**
Max	Ground	Agricultural	Low Boom	Berry - child	1.00E+02	1.90E+02	2.54E+03	--	--	3.64%	11.04%	--	1.40E+00
Max	Ground	Agricultural	High Boom	Berry - child	1.00E+02	1.26E+02	1.69E+03	--	--	5.84%	16.56%	--	**9.31E-01**
Typical	Aerial	Agricultural	Plane	Berry - adult	1.00E+02	1.72E+02	1.29E+03	--	--	4.62%	20.11%	--	1.11E+00
Typical	Aerial	Agricultural	Helicopter	Berry - adult	1.00E+02	1.90E+02	1.42E+03	--	--	3.90%	18.29%	--	1.22E+00
Typical	Ground	Agricultural	Low Boom	Berry - adult	1.00E+02	1.90E+03	1.42E+04	--	--	0.39%	1.83%	--	1.22E+01
Typical	Ground	Agricultural	High Boom	Berry - adult	1.00E+02	9.48E+02	7.11E+03	--	--	0.62%	3.66%	--	6.16E+00
Max	Aerial	Agricultural	Plane	Berry - adult	1.00E+02	3.72E+01	2.79E+02	--	--	22.23%	93.26%	--	**2.38E-01**
Max	Aerial	Agricultural	Helicopter	Berry - adult	1.00E+02	4.31E+01	3.23E+02	--	--	18.46%	80.46%	--	**2.76E-01**
Max	Ground	Agricultural	Low Boom	Berry - adult	1.00E+02	3.16E+02	2.37E+03	--	--	1.56%	10.97%	--	2.07E+00
Max	Ground	Agricultural	High Boom	Berry - adult	1.00E+02	2.11E+02	1.58E+03	--	--	2.50%	16.46%	--	1.37E+00
Typical	Aerial	Agricultural	Plane	Angler	1.00E+02	1.72E+02	1.94E+03	--	--	4.62%	--	0.15%	1.47E+00
Typical	Aerial	Agricultural	Helicopter	Angler	1.00E+02	1.90E+02	2.13E+03	--	--	3.90%	--	0.13%	1.63E+00
Typical	Ground	Agricultural	Low Boom	Angler	1.00E+02	1.90E+03	2.13E+04	--	--	0.39%	--	0.01%	1.63E+01
Typical	Ground	Agricultural	High Boom	Angler	1.00E+02	9.48E+02	1.07E+04	--	--	0.62%	--	0.02%	8.24E+00
Max	Aerial	Agricultural	Plane	Angler	1.00E+02	3.72E+01	4.18E+02	--	--	22.23%	--	0.72%	**3.17E-01**
Max	Aerial	Agricultural	Helicopter	Angler	1.00E+02	4.31E+01	4.85E+02	--	--	18.46%	--	0.60%	**3.68E-01**
Max	Ground	Agricultural	Low Boom	Angler	1.00E+02	3.16E+02	3.56E+03	--	--	1.56%	--	0.05%	2.77E+00
Max	Ground	Agricultural	High Boom	Angler	1.00E+02	2.11E+02	2.37E+03	--	--	2.50%	--	0.08%	1.84E+00

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Aggregrate Risk Index - Long Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Diquat
Program: Aquatic

						Dermal Exposure Pathways			Incidental Ingestion	Dietary Exposure Pathways			Long-Term
						Long-Term Dermal		Int. Term Oral	Int. Term Oral	Chronic	Chronic	Chronic	Aggregate
Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Target MOE	Drift MOE	Foliage MOE	Water MOE	Water MOE	Water %PAD	Berries %PAD	Fish %PAD	Risk Index
Typical	Aerial	Agricultural	Plane	Res-child	1.00E+02	1.03E+02	8.00E+01	--	--	--	20.24%	--	**4.13E-01**
Typical	Aerial	Agricultural	Helicopter	Res-child	1.00E+02	1.14E+02	8.79E+01	--	--	--	18.40%	--	**4.55E-01**
Typical	Ground	Agricultural	Low Boom	Res-child	1.00E+02	1.14E+03	8.79E+02	--	--	--	1.84%	--	4.55E+00
Typical	Ground	Agricultural	High Boom	Res-child	1.00E+02	5.69E+02	4.40E+02	--	--	--	3.68%	--	2.27E+00
Max	Aerial	Agricultural	Plane	Res-child	1.00E+02	2.23E+01	1.72E+01	--	--	--	93.84%	--	**8.91E-02**
Max	Aerial	Agricultural	Helicopter	Res-child	1.00E+02	2.59E+01	2.00E+01	--	--	--	80.96%	--	**1.03E-01**
Max	Ground	Agricultural	Low Boom	Res-child	1.00E+02	1.90E+02	1.47E+02	--	--	--	11.04%	--	**7.58E-01**
Max	Ground	Agricultural	High Boom	Res-child	1.00E+02	1.26E+02	9.77E+01	--	--	--	16.56%	--	**5.05E-01**
Typical	Aerial	Agricultural	Plane	Res-adult	1.00E+02	1.72E+02	1.34E+02	--	--	--	20.11%	--	**6.54E-01**
Typical	Aerial	Agricultural	Helicopter	Res-adult	1.00E+02	1.90E+02	1.47E+02	--	--	--	18.29%	--	**7.20E-01**
Typical	Ground	Agricultural	Low Boom	Res-adult	1.00E+02	1.90E+03	1.47E+03	--	--	--	1.83%	--	7.20E+00
Typical	Ground	Agricultural	High Boom	Res-adult	1.00E+02	9.48E+02	7.36E+02	--	--	--	3.66%	--	3.60E+00
Max	Aerial	Agricultural	Plane	Res-adult	1.00E+02	3.72E+01	2.89E+01	--	--	--	93.26%	--	**1.41E-01**
Max	Aerial	Agricultural	Helicopter	Res-adult	1.00E+02	4.31E+01	3.35E+01	--	--	--	80.46%	--	**1.64E-01**
Max	Ground	Agricultural	Low Boom	Res-adult	1.00E+02	3.16E+02	2.45E+02	--	--	--	10.97%	--	1.20E+00
Max	Ground	Agricultural	High Boom	Res-adult	1.00E+02	2.11E+02	1.64E+02	--	--	--	16.46%	--	**7.99E-01**
Typical	Aerial	Agricultural	Plane	N.A.-child	1.00E+02	1.03E+02	9.24E+02	6.96E+08	--	5.39%	20.24%	2.11%	**7.40E-01**
Typical	Aerial	Agricultural	Helicopter	N.A.-child	1.00E+02	1.14E+02	1.02E+03	8.25E+08	--	4.55%	18.40%	1.78%	**8.17E-01**
Typical	Ground	Agricultural	Low Boom	N.A.-child	1.00E+02	1.14E+03	1.02E+04	8.25E+09	--	0.45%	1.84%	0.18%	8.17E+00
Typical	Ground	Agricultural	High Boom	N.A.-child	1.00E+02	5.69E+02	5.08E+03	5.16E+09	--	0.73%	3.68%	0.28%	4.13E+00
Max	Aerial	Agricultural	Plane	N.A.-child	1.00E+02	2.23E+01	1.99E+02	1.45E+08	--	25.93%	93.84%	10.15%	**1.59E-01**
Max	Aerial	Agricultural	Helicopter	N.A.-child	1.00E+02	2.59E+01	2.31E+02	1.74E+08	--	21.53%	80.96%	8.43%	**1.85E-01**
Max	Ground	Agricultural	Low Boom	N.A.-child	1.00E+02	1.90E+02	1.69E+03	2.06E+09	--	1.82%	11.04%	0.71%	1.39E+00
Max	Ground	Agricultural	High Boom	N.A.-child	1.00E+02	1.26E+02	1.13E+03	1.28E+09	--	2.92%	16.56%	1.14%	**9.21E-01**
Typical	Aerial	Agricultural	Plane	N.A.-adult	1.00E+02	1.72E+02	8.62E+02	1.19E+09	--	2.31%	20.11%	2.10%	1.06E+00
Typical	Aerial	Agricultural	Helicopter	N.A.-adult	1.00E+02	1.90E+02	9.49E+02	1.41E+09	--	1.95%	18.29%	1.78%	1.17E+00
Typical	Ground	Agricultural	Low Boom	N.A.-adult	1.00E+02	1.90E+03	9.49E+03	1.41E+10	--	0.19%	1.83%	0.18%	1.17E+01
Typical	Ground	Agricultural	High Boom	N.A.-adult	1.00E+02	9.48E+02	4.74E+03	8.83E+09	--	0.31%	3.66%	0.28%	5.91E+00
Max	Aerial	Agricultural	Plane	N.A.-adult	1.00E+02	3.72E+01	1.86E+02	2.47E+08	--	11.11%	93.26%	10.13%	**2.29E-01**
Max	Aerial	Agricultural	Helicopter	N.A.-adult	1.00E+02	4.31E+01	2.16E+02	2.98E+08	--	9.23%	80.46%	8.41%	**2.66E-01**
Max	Ground	Agricultural	Low Boom	N.A.-adult	1.00E+02	3.16E+02	1.58E+03	3.53E+09	--	0.78%	10.97%	0.71%	1.98E+00
Max	Ground	Agricultural	High Boom	N.A.-adult	1.00E+02	2.11E+02	1.05E+03	2.20E+09	--	1.25%	16.46%	1.14%	1.32E+00

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)
Calculation: Aggregrate Risk Index - Long Term Exposure Scenario
Scenario: Public Receptors - Routine Exposure
Pesticide: Diquat
Program: Aquatic

						Dermal Exposure Pathways			Incidental Ingestion	Dietary Exposure Pathways			Long-Term
						Long-Term Dermal		Int. Term Oral	Int. Term Oral	Chronic	Chronic	Chronic	Aggregate
Scenario:	AgDrift Scenario	Land Type	Equipment	Public Receptor	Target MOE	Drift MOE	Foliage MOE	Water MOE	Water MOE	Water %PAD	Berries %PAD	Fish %PAD	Risk Index
Typical	Aerial	Agricultural	Plane	Swimmer-child	1.00E+02	--	--	1.81E+09	1.86E+04	--	--	--	1.86E+02
Typical	Aerial	Agricultural	Helicopter	Swimmer-child	1.00E+02	--	--	2.14E+09	2.20E+04	--	--	--	2.20E+02
Typical	Ground	Agricultural	Low Boom	Swimmer-child	1.00E+02	--	--	2.14E+10	2.20E+05	--	--	--	2.20E+03
Typical	Ground	Agricultural	High Boom	Swimmer-child	1.00E+02	--	--	1.34E+10	1.38E+05	--	--	--	1.38E+03
Max	Aerial	Agricultural	Plane	Swimmer-child	1.00E+02	--	--	3.76E+08	3.86E+03	--	--	--	3.86E+01
Max	Aerial	Agricultural	Helicopter	Swimmer-child	1.00E+02	--	--	4.53E+08	4.64E+03	--	--	--	4.64E+01
Max	Ground	Agricultural	Low Boom	Swimmer-child	1.00E+02	--	--	5.36E+09	5.49E+04	--	--	--	5.49E+02
Max	Ground	Agricultural	High Boom	Swimmer-child	1.00E+02	--	--	3.34E+09	3.42E+04	--	--	--	3.42E+02
Typical	Aerial	Agricultural	Plane	Swimmer-adult	1.00E+02	--	--	3.10E+09	8.66E+04	--	--	--	8.66E+02
Typical	Aerial	Agricultural	Helicopter	Swimmer-adult	1.00E+02	--	--	3.67E+09	1.03E+05	--	--	--	1.03E+03
Typical	Ground	Agricultural	Low Boom	Swimmer-adult	1.00E+02	--	--	3.67E+10	1.03E+06	--	--	--	1.03E+04
Typical	Ground	Agricultural	High Boom	Swimmer-adult	1.00E+02	--	--	2.30E+10	6.42E+05	--	--	--	6.42E+03
Max	Aerial	Agricultural	Plane	Swimmer-adult	1.00E+02	--	--	6.43E+08	1.80E+04	--	--	--	1.80E+02
Max	Aerial	Agricultural	Helicopter	Swimmer-adult	1.00E+02	--	--	7.75E+08	2.17E+04	--	--	--	2.17E+02
Max	Ground	Agricultural	Low Boom	Swimmer-adult	1.00E+02	--	--	9.17E+09	2.56E+05	--	--	--	2.56E+03
Max	Ground	Agricultural	High Boom	Swimmer-adult	1.00E+02	--	--	5.71E+09	1.60E+05	--	--	--	1.60E+03

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

APPENDIX E - PUBLIC RECEPTOR UNCERTAINTY ANALYSIS (INTERMEDIATE AND LONG-TERM EXPOSURE)

Aggregrate Risk Indices - Routine Exposure Scenarios for Public Receptors

Herbicide: **Diquat**

Programs: **Aquatic**

EIS HHRA

BLM

	Typical Application Rate Scenario ARIs (d)				Maximum Application Rate Scenario ARIs (d)			
AgDrift Scenario:	**Aerial**	**Aerial**	**Ground**	**Ground**	**Aerial**	**Aerial**	**Ground**	**Ground**
Land Type (a):	**Agricultural**	**Agricultural**	**Agricultural**	**Agricultural**	**Agricultural**	**Agricultural**	**Agricultural**	**Agricultural**
Equipment (b):	**Plane**	**Helicopter**	**Low boom**	**High boom**	**Plane**	**Helicopter**	**Low boom**	**High boom**
Intermediate-Term Exposure (c)								
Hiker/Hunter (Adult)	1.475	1.630	16.303	8.257	**0.317**	**0.369**	2.776	1.845
Berry Picker (Child)	**0.741**	**0.820**	8.203	4.164	**0.159**	**0.185**	1.402	**0.931**
Berry Picker (Adult)	1.105	1.220	12.200	6.159	**0.238**	**0.276**	2.066	1.374
Angler (Adult)	1.472	1.627	16.270	8.243	**0.317**	**0.368**	2.772	1.842
Residential (Child)	**0.413**	**0.455**	4.546	2.273	**0.089**	**0.103**	**0.758**	**0.505**
Residential (Adult)	**0.654**	**0.720**	7.195	3.598	**0.141**	**0.164**	1.199	**0.799**
Native American (Child)	**0.740**	**0.817**	8.169	4.127	**0.159**	**0.185**	1.385	**0.921**
Native American (Adult)	1.062	1.172	11.722	5.913	**0.229**	**0.266**	1.983	1.319
Swimmer (Child)	185.642	219.939	2199.391	1376.133	38.560	46.439	549.445	342.462
Swmmer (Adult)	866.312	1026.364	10263.643	6421.839	179.944	216.712	2564.031	1598.129
Long-Term Exposure (c)								
Hiker/Hunter (Adult)	1.475	1.630	16.303	8.257	**0.317**	**0.369**	2.776	1.845
Berry Picker (Child)	**0.741**	**0.820**	8.203	4.164	**0.159**	**0.185**	1.402	**0.931**
Berry Picker (Adult)	1.105	1.220	12.200	6.159	**0.238**	**0.276**	2.066	1.374
Angler (Adult)	1.472	1.627	16.270	8.243	**0.317**	**0.368**	2.772	1.842
Residential (Child)	**0.413**	**0.455**	4.546	2.273	**0.089**	**0.103**	**0.758**	**0.505**
Residential (Adult)	**0.654**	**0.720**	7.195	3.598	**0.141**	**0.164**	1.199	**0.799**
Native American (Child)	**0.740**	**0.817**	8.169	4.127	**0.159**	**0.185**	1.385	**0.921**
Native American (Adult)	1.062	1.172	11.722	5.913	**0.229**	**0.266**	1.983	1.319
Swimmer (Child)	185.642	219.939	2199.391	1376.133	38.560	46.439	549.445	342.462
Swmmer (Adult)	866.312	1026.364	10263.643	6421.839	179.944	216.712	2564.031	1598.129

Notes:

ARI - Aggregrate Risk Index. Values less than one represent a level of concern. ARIs less than one are highlighted.

(a) - AgDrift® was used to predict spray drift deposition onto a pond. Agricultural land type is used as a proxy for a pond for aerial scenarios. Ground scenarios are not differentiated in AgDRIFT® by land type.

(b) - Low and High Boom applies to a truck-mount or an All-Terrain Vehicle (ATV)-mount boom.

(c) - ARIs are based on oral, dermal, and dietary exposure.

(d) - Application rates are shown on Table 4-1.