

Calculation: Potential Doses and Margins of Exposure
Scenario: Occupational - Routine Exposure
Pathway: Dermal Contact with Herbicide
Herbicide: Diquat
Program: Aquatic

Scenario	Application Type	Application Vehicle	Application Method	Receptor	Rate (lb a.i./acre)	Dermal Unit Exposure (mg/lb ai)	Acres Treated per Hour	Hours Per Day	Dermal Abs. Factor	Body Weight (kg)	Dermal Dose (mg/kg-day)	Dermal NOAELs (mg/kg-day)			Margin of Exposure Dermal Exposure (unitless)		
												Short	Int	Long	Short	Int	Long
Typical	Aerial	Plane	FW	P	1	0.0022	250	4	0.041	70	1.29E-03	1	0.5	0.5	7.76E+02	3.88E+02	3.88E+02
Typical	Aerial	Plane	FW	M/L	1	0.023	250	4	0.041	70	1.35E-02	1	0.5	0.5	7.42E+01	3.71E+01	3.71E+01
Typical	Aerial	Helicopter	Rotary	P	1	0.0022	100	4	0.041	70	5.15E-04	1	0.5	0.5	1.94E+03	9.70E+02	9.70E+02
Typical	Aerial	Helicopter	Rotary	M/L	1	0.023	100	4	0.041	70	5.39E-03	1	0.5	0.5	1.86E+02	9.28E+01	9.28E+01
Typical	Ground	Human	Bpack	A/M/L	1	2.5	0.2	3	0.041	70	8.79E-04	1	0.5	0.5	1.14E+03	5.69E+02	5.69E+02
Typical	Ground	Human	Hback	A	1	0.39	0.75	6	0.041	70	1.03E-03	1	0.5	0.5	9.73E+02	4.86E+02	4.86E+02
Typical	Ground	Human	Hback	M/L	1	0.023	0.75	6	0.041	70	6.06E-05	1	0.5	0.5	1.65E+04	8.25E+03	8.25E+03
Typical	Ground	Human	Hback	A/M/L	1	0.413	0.75	6	0.041	70	1.09E-03	1	0.5	0.5	9.19E+02	4.59E+02	4.59E+02
Typical	Ground	ATV	Spot	A	1	0.39	0.25	5	0.041	70	2.86E-04	1	0.5	0.5	3.50E+03	1.75E+03	1.75E+03
Typical	Ground	ATV	Spot	M/L	1	0.023	0.25	3	0.041	70	1.01E-05	1	0.5	0.5	9.90E+04	4.95E+04	4.95E+04
Typical	Ground	ATV	Spot	A/M/L	1	0.413	0.25	5	0.041	70	3.02E-04	1	0.5	0.5	3.31E+03	1.65E+03	1.65E+03
Typical	Ground	ATV	B/B	A	1	0.014	0.8	5	0.041	70	3.28E-05	1	0.5	0.5	3.05E+04	1.52E+04	1.52E+04
Typical	Ground	ATV	B/B	M/L	1	0.023	0.8	3	0.041	70	3.23E-05	1	0.5	0.5	3.09E+04	1.55E+04	1.55E+04
Typical	Ground	ATV	B/B	A/M/L	1	0.037	0.8	5	0.041	70	8.67E-05	1	0.5	0.5	1.15E+04	5.77E+03	5.77E+03
Typical	Ground	Truck Mount	Spot	A	1	0.39	0.38	6	0.041	70	5.21E-04	1	0.5	0.5	1.92E+03	9.60E+02	9.60E+02
Typical	Ground	Truck Mount	Spot	M/L	1	0.023	0.38	4	0.041	70	2.05E-05	1	0.5	0.5	4.88E+04	2.44E+04	2.44E+04
Typical	Ground	Truck Mount	Spot	A/M/L	1	0.413	0.38	6	0.041	70	5.52E-04	1	0.5	0.5	1.81E+03	9.07E+02	9.07E+02
Typical	Ground	Truck Mount	B/B	A	1	0.014	1.5	5	0.041	70	6.15E-05	1	0.5	0.5	1.63E+04	8.13E+03	8.13E+03
Typical	Ground	Truck Mount	B/B	M/L	1	0.023	1.5	3	0.041	70	6.06E-05	1	0.5	0.5	1.65E+04	8.25E+03	8.25E+03
Typical	Ground	Truck Mount	B/B	A/M/L	1	0.037	1.5	5	0.041	70	1.63E-04	1	0.5	0.5	6.15E+03	3.08E+03	3.08E+03
Typical	Aquatic	Boat	Spot	A	1	0.17	0.63	4	0.041	70	3.98E-04	1	0.5	0.5	2.51E+03	1.26E+03	1.26E+03 (a)
Typical	Aquatic	Boat	Spot	M/L	1	0.47	0.63	1	0.041	70	2.75E-04	1	0.5	0.5	3.63E+03	1.82E+03	1.82E+03 (a)
Typical	Aquatic	Boat	Spot	A/M/L	1	0.64	0.63	4	0.041	70	1.50E-03	1	0.5	0.5	6.67E+02	3.33E+02	3.33E+02 (a)
Typical	Aquatic	Boat	B/B	A	1	0.17	1.3	4	0.041	70	3.98E-04	1	0.5	0.5	2.51E+03	1.26E+03	1.26E+03 (a)
Typical	Aquatic	Boat	B/B	M/L	1	0.47	1.3	1	0.041	70	2.75E-04	1	0.5	0.5	3.63E+03	1.82E+03	1.82E+03 (a)
Typical	Aquatic	Boat	B/B	A/M/L	1	0.64	1.3	4	0.041	70	1.50E-03	1	0.5	0.5	6.67E+02	3.33E+02	3.33E+02 (a)

Calculation: Potential Doses and Margins of Exposure

Scenario: Occupational - Routine Exposure

Pathway: Dermal Contact with Herbicide

Herbicide: Diquat

Program: Aquatic

Scenario	Application Type	Application Vehicle	Application Method	Receptor	Rate (lb a.i./acre)	Dermal Unit Exposure (mg/lb ai)	Acres Treated per Hour	Hours Per Day	Dermal Abs. Factor	Body Weight (kg)	Dermal Dose (mg/kg-day)	Dermal NOAELs (mg/kg-day)			Margin of Exposure Dermal Exposure (unitless)		
												Short	Int	Long	Short	Int	Long
Max	Aerial	Plane	FW	P	4	0.0022	500	6	0.041	70	1.55E-02	1	0.5	0.5	6.47E+01	3.23E+01	3.23E+01
Max	Aerial	Plane	FW	M/L	4	0.023	500	6	0.041	70	1.62E-01	1	0.5	0.5	6.19E+00	3.09E+00	3.09E+00
Max	Aerial	Helicopter	Rotary	P	4	0.0022	200	6	0.041	70	6.19E-03	1	0.5	0.5	1.62E+02	8.08E+01	8.08E+01
Max	Aerial	Helicopter	Rotary	M/L	4	0.023	200	6	0.041	70	6.47E-02	1	0.5	0.5	1.55E+01	7.73E+00	7.73E+00
Max	Ground	Human	Bpack	A/M/L	4	2.5	0.4	6	0.041	70	1.41E-02	1	0.5	0.5	7.11E+01	3.56E+01	3.56E+01
Max	Ground	Human	Hback	A	4	0.39	1	8	0.041	70	7.31E-03	1	0.5	0.5	1.37E+02	6.84E+01	6.84E+01
Max	Ground	Human	Hback	M/L	4	0.023	1	8	0.041	70	4.31E-04	1	0.5	0.5	2.32E+03	1.16E+03	1.16E+03
Max	Ground	Human	Hback	A/M/L	4	0.413	1	8	0.041	70	7.74E-03	1	0.5	0.5	1.29E+02	6.46E+01	6.46E+01
Max	Ground	ATV	Spot	A	4	0.39	0.5	9	0.041	70	4.11E-03	1	0.5	0.5	2.43E+02	1.22E+02	1.22E+02
Max	Ground	ATV	Spot	M/L	4	0.023	0.5	6	0.041	70	1.62E-04	1	0.5	0.5	6.19E+03	3.09E+03	3.09E+03
Max	Ground	ATV	Spot	A/M/L	4	0.413	0.5	9	0.041	70	4.35E-03	1	0.5	0.5	2.30E+02	1.15E+02	1.15E+02
Max	Ground	ATV	B/B	A	4	0.014	1.6	9	0.041	70	4.72E-04	1	0.5	0.5	2.12E+03	1.06E+03	1.06E+03
Max	Ground	ATV	B/B	M/L	4	0.023	1.6	5	0.041	70	4.31E-04	1	0.5	0.5	2.32E+03	1.16E+03	1.16E+03
Max	Ground	ATV	B/B	A/M/L	4	0.037	1.6	9	0.041	70	1.25E-03	1	0.5	0.5	8.01E+02	4.01E+02	4.01E+02
Max	Ground	Truck Mount	Spot	A	4	0.39	1	10	0.041	70	9.14E-03	1	0.5	0.5	1.09E+02	5.47E+01	5.47E+01
Max	Ground	Truck Mount	Spot	M/L	4	0.023	1	8	0.041	70	4.31E-04	1	0.5	0.5	2.32E+03	1.16E+03	1.16E+03
Max	Ground	Truck Mount	Spot	A/M/L	4	0.413	1	10	0.041	70	9.68E-03	1	0.5	0.5	1.03E+02	5.17E+01	5.17E+01
Max	Ground	Truck Mount	B/B	A	4	0.014	2.25	8	0.041	70	5.90E-04	1	0.5	0.5	1.69E+03	8.47E+02	8.47E+02
Max	Ground	Truck Mount	B/B	M/L	4	0.023	2.25	6	0.041	70	7.27E-04	1	0.5	0.5	1.37E+03	6.87E+02	6.87E+02
Max	Ground	Truck Mount	B/B	A/M/L	4	0.037	2.25	8	0.041	70	1.56E-03	1	0.5	0.5	6.41E+02	3.20E+02	3.20E+02
Max	Aquatic	Boat	Spot	A	4	0.17	2	6	0.041	70	5.97E-04	1	0.5	0.5	1.67E+03	8.37E+02	8.37E+02 (a)
Max	Aquatic	Boat	Spot	M/L	4	0.47	2	2	0.041	70	5.51E-04	1	0.5	0.5	1.82E+03	9.08E+02	9.08E+02 (a)
Max	Aquatic	Boat	Spot	A/M/L	4	0.64	2	6	0.041	70	2.25E-03	1	0.5	0.5	4.45E+02	2.22E+02	2.22E+02 (a)
Max	Aquatic	Boat	B/B	A	4	0.17	3	6	0.041	70	5.97E-04	1	0.5	0.5	1.67E+03	8.37E+02	8.37E+02 (a)
Max	Aquatic	Boat	B/B	M/L	4	0.47	3	2	0.041	70	5.51E-04	1	0.5	0.5	1.82E+03	9.08E+02	9.08E+02 (a)
Max	Aquatic	Boat	B/B	A/M/L	4	0.64	3	6	0.041	70	2.25E-03	1	0.5	0.5	4.45E+02	2.22E+02	2.22E+02 (a)

Notes:

(a) - Unit Exposure is in mg/hour. Dose equation is therefore: Unit Exposure (mg/hr) * Exposure Time (hours/day) * DAF / Body Weight (kg)

Calculation: Potential Doses and Margins of Exposure
Scenario: Occupational - Routine Exposure
Pathway: Inhalation of Herbicide
Herbicide: Diquat
Program: Aquatic

Scenario	Application Type	Application Vehicle	Application Method	Receptor	Rate (lb a.i./acre)	Inhalation Unit Exposure (mg/lb ai)	Acres Treated per Hour	Hours Per Day	Inhalation Absorption Factor	Body Weight (kg)	Inhalation Dose (mg/kg-day)	Inhalation NOAELs (mg/kg-day)			Margin of Exposure Inhalation Exposure (unitless)		
												Short	Int	Long	Short	Int	Long
Typical	Aerial	Plane	FW	P	1	0.000068	250	4	1	70	9.71E-04	0.024	0.024	0.02	2.47E+01	2.47E+01	2.47E+01
Typical	Aerial	Plane	FW	M/L	1	0.0012	250	4	1	70	1.71E-02	0.024	0.024	0.02	1.40E+00	1.40E+00	1.40E+00
Typical	Aerial	Helicopter	Rotary	P	1	0.000068	100	4	1	70	3.89E-04	0.024	0.024	0.02	6.18E+01	6.18E+01	6.18E+01
Typical	Aerial	Helicopter	Rotary	M/L	1	0.0012	100	4	1	70	6.86E-03	0.024	0.024	0.02	3.50E+00	3.50E+00	3.50E+00
Typical	Ground	Human	Bpack	A/M/L	1	0.03	0.2	3	1	70	2.57E-04	0.024	0.024	0.02	9.33E+01	9.33E+01	9.33E+01
Typical	Ground	Human	Hback	A	1	0.0039	0.75	6	1	70	2.51E-04	0.024	0.024	0.02	9.57E+01	9.57E+01	9.57E+01
Typical	Ground	Human	Hback	M/L	1	0.0012	0.75	6	1	70	7.71E-05	0.024	0.024	0.02	3.11E+02	3.11E+02	3.11E+02
Typical	Ground	Human	Hback	A/M/L	1	0.0051	0.75	6	1	70	3.28E-04	0.024	0.024	0.02	7.32E+01	7.32E+01	7.32E+01
Typical	Ground	ATV	Spot	A	1	0.0039	0.25	5	1	70	6.96E-05	0.024	0.024	0.02	3.45E+02	3.45E+02	3.45E+02
Typical	Ground	ATV	Spot	M/L	1	0.0012	0.25	3	1	70	1.29E-05	0.024	0.024	0.02	1.87E+03	1.87E+03	1.87E+03
Typical	Ground	ATV	Spot	A/M/L	1	0.0051	0.25	5	1	70	9.11E-05	0.024	0.024	0.02	2.64E+02	2.64E+02	2.64E+02
Typical	Ground	ATV	B/B	A	1	0.00074	0.8	5	1	70	4.23E-05	0.024	0.024	0.02	5.68E+02	5.68E+02	5.68E+02
Typical	Ground	ATV	B/B	M/L	1	0.0012	0.8	3	1	70	4.11E-05	0.024	0.024	0.02	5.83E+02	5.83E+02	5.83E+02
Typical	Ground	ATV	B/B	A/M/L	1	0.00194	0.8	5	1	70	1.11E-04	0.024	0.024	0.02	2.16E+02	2.16E+02	2.16E+02
Typical	Ground	Truck Mount	Spot	A	1	0.0039	0.38	6	1	70	1.27E-04	0.024	0.024	0.02	1.89E+02	1.89E+02	1.89E+02
Typical	Ground	Truck Mount	Spot	M/L	1	0.0012	0.38	4	1	70	2.61E-05	0.024	0.024	0.02	9.21E+02	9.21E+02	9.21E+02
Typical	Ground	Truck Mount	Spot	A/M/L	1	0.0051	0.38	6	1	70	1.66E-04	0.024	0.024	0.02	1.44E+02	1.44E+02	1.44E+02
Typical	Ground	Truck Mount	B/B	A	1	0.00074	1.5	5	1	70	7.93E-05	0.024	0.024	0.02	3.03E+02	3.03E+02	3.03E+02
Typical	Ground	Truck Mount	B/B	M/L	1	0.0012	1.5	3	1	70	7.71E-05	0.024	0.024	0.02	3.11E+02	3.11E+02	3.11E+02
Typical	Ground	Truck Mount	B/B	A/M/L	1	0.00194	1.5	5	1	70	2.08E-04	0.024	0.024	0.02	1.15E+02	1.15E+02	1.15E+02
Typical	Aquatic	Boat	Spot	A	1	NA	0.63	4	1	70	--	0.024	0.024	0.02	NC	NC	NC
Typical	Aquatic	Boat	Spot	M/L	1	NA	0.63	1	1	70	--	0.024	0.024	0.02	NC	NC	NC
Typical	Aquatic	Boat	Spot	A/M/L	1	NA	0.63	4	1	70	--	0.024	0.024	0.02	NC	NC	NC
Typical	Aquatic	Boat	B/B	A	1	NA	1.3	4	1	70	--	0.024	0.024	0.02	NC	NC	NC
Typical	Aquatic	Boat	B/B	M/L	1	NA	1.3	1	1	70	--	0.024	0.024	0.02	NC	NC	NC
Typical	Aquatic	Boat	B/B	A/M/L	1	NA	1.3	4	1	70	--	0.024	0.024	0.02	NC	NC	NC

Calculation: Potential Doses and Margins of Exposure
 Scenario: Occupational - Routine Exposure
 Pathway: Inhalation of Herbicide
 Herbicide: Diquat
 Program: Aquatic

Scenario	Application Type	Application Vehicle	Application Method	Receptor	Rate (lb a.i./acre)	Inhalation Unit Exposure (mg/lb ai)	Acres Treated per Hour	Hours Per Day	Inhalation Absorption Factor	Body Weight (kg)	Inhalation Dose (mg/kg-day)	Inhalation NOAELs (mg/kg-day)			Margin of Exposure Inhalation Exposure (unitless)		
												Short	Int	Long	Short	Int	Long
Max	Aerial	Plane	FW	P	4	0.000068	500	6	1	70	1.17E-02	0.024	0.024	0.02	2.06E+00	2.06E+00	2.06E+00
Max	Aerial	Plane	FW	M/L	4	0.0012	500	6	1	70	2.06E-01	0.024	0.024	0.02	1.17E-01	1.17E-01	1.17E-01
Max	Aerial	Helicopter	Rotary	P	4	0.000068	200	6	1	70	4.66E-03	0.024	0.024	0.02	5.15E+00	5.15E+00	5.15E+00
Max	Aerial	Helicopter	Rotary	M/L	4	0.0012	200	6	1	70	8.23E-02	0.024	0.024	0.02	2.92E-01	2.92E-01	2.92E-01
Max	Ground	Human	Bpack	A/M/L	4	0.03	0.4	6	1	70	4.11E-03	0.024	0.024	0.02	5.83E+00	5.83E+00	5.83E+00
Max	Ground	Human	Hback	A	4	0.0039	1	8	1	70	1.78E-03	0.024	0.024	0.02	1.35E+01	1.35E+01	1.35E+01
Max	Ground	Human	Hback	M/L	4	0.0012	1	8	1	70	5.49E-04	0.024	0.024	0.02	4.38E+01	4.38E+01	4.38E+01
Max	Ground	Human	Hback	A/M/L	4	0.0051	1	8	1	70	2.33E-03	0.024	0.024	0.02	1.03E+01	1.03E+01	1.03E+01
Max	Ground	ATV	Spot	A	4	0.0039	0.5	9	1	70	1.00E-03	0.024	0.024	0.02	2.39E+01	2.39E+01	2.39E+01
Max	Ground	ATV	Spot	M/L	4	0.0012	0.5	6	1	70	2.06E-04	0.024	0.024	0.02	1.17E+02	1.17E+02	1.17E+02
Max	Ground	ATV	Spot	A/M/L	4	0.0051	0.5	9	1	70	1.31E-03	0.024	0.024	0.02	1.83E+01	1.83E+01	1.83E+01
Max	Ground	ATV	B/B	A	4	0.00074	1.6	9	1	70	6.09E-04	0.024	0.024	0.02	3.94E+01	3.94E+01	3.94E+01
Max	Ground	ATV	B/B	M/L	4	0.0012	1.6	5	1	70	5.49E-04	0.024	0.024	0.02	4.38E+01	4.38E+01	4.38E+01
Max	Ground	ATV	B/B	A/M/L	4	0.00194	1.6	9	1	70	1.60E-03	0.024	0.024	0.02	1.50E+01	1.50E+01	1.50E+01
Max	Ground	Truck Mount	Spot	A	4	0.0039	1	10	1	70	2.23E-03	0.024	0.024	0.02	1.08E+01	1.08E+01	1.08E+01
Max	Ground	Truck Mount	Spot	M/L	4	0.0012	1	8	1	70	5.49E-04	0.024	0.024	0.02	4.38E+01	4.38E+01	4.38E+01
Max	Ground	Truck Mount	Spot	A/M/L	4	0.0051	1	10	1	70	2.91E-03	0.024	0.024	0.02	8.24E+00	8.24E+00	8.24E+00
Max	Ground	Truck Mount	B/B	A	4	0.00074	2.25	8	1	70	7.61E-04	0.024	0.024	0.02	3.15E+01	3.15E+01	3.15E+01
Max	Ground	Truck Mount	B/B	M/L	4	0.0012	2.25	6	1	70	9.26E-04	0.024	0.024	0.02	2.59E+01	2.59E+01	2.59E+01
Max	Ground	Truck Mount	B/B	A/M/L	4	0.00194	2.25	8	1	70	2.00E-03	0.024	0.024	0.02	1.20E+01	1.20E+01	1.20E+01
Max	Aquatic	Boat	Spot	A	4	NA	2	6	1	70	--	0.024	0.024	0.02	NC	NC	NC
Max	Aquatic	Boat	Spot	M/L	4	NA	2	2	1	70	--	0.024	0.024	0.02	NC	NC	NC
Max	Aquatic	Boat	Spot	A/M/L	4	NA	2	6	1	70	--	0.024	0.024	0.02	NC	NC	NC
Max	Aquatic	Boat	B/B	A	4	NA	3	6	1	70	--	0.024	0.024	0.02	NC	NC	NC
Max	Aquatic	Boat	B/B	M/L	4	NA	3	2	1	70	--	0.024	0.024	0.02	NC	NC	NC
Max	Aquatic	Boat	B/B	A/M/L	4	NA	3	6	1	70	--	0.024	0.024	0.02	NC	NC	NC

Calculation: Aggregate Risk Level
Scenario: Occupational - Routine Exposure
Pathway: Dermal Contact with and Inhalation of Herbicide
Herbicide: Diquat
Program: Aquatic

Scenario	Application Type	Application Vehicle	Application Method	Receptor	Margin of Exposure Dermal Exposure (unitless)			Margin of Exposure Inhalation Exposure (unitless)			Target Margin of Exposure		Aggregate Risk Index		
					Short	Int	Long	Short	Int	Long	Dermal	Inhalation	Short	Int	Long
Typical	Aerial	Plane	FW	P	7.76E+02	3.88E+02	3.88E+02	2.47E+01	2.47E+01	2.47E+01	100	100	2.39E-01	2.32E-01	2.32E-01
Typical	Aerial	Plane	FW	M/L	7.42E+01	3.71E+01	3.71E+01	1.40E+00	1.40E+00	1.40E+00	100	100	1.37E-02	1.35E-02	1.35E-02
Typical	Aerial	Helicopter	Rotary	P	1.94E+03	9.70E+02	9.70E+02	6.18E+01	6.18E+01	6.18E+01	100	100	5.99E-01	5.81E-01	5.81E-01
Typical	Aerial	Helicopter	Rotary	M/L	1.86E+02	9.28E+01	9.28E+01	3.50E+00	3.50E+00	3.50E+00	100	100	3.44E-02	3.37E-02	3.37E-02
Typical	Ground	Human	Bpack	A/M/L	1.14E+03	5.69E+02	5.69E+02	9.33E+01	9.33E+01	9.33E+01	100	100	8.63E-01	8.02E-01	8.02E-01
Typical	Ground	Human	Hback	A	9.73E+02	4.86E+02	4.86E+02	9.57E+01	9.57E+01	9.57E+01	100	100	8.72E-01	8.00E-01	8.00E-01
Typical	Ground	Human	Hback	M/L	1.65E+04	8.25E+03	8.25E+03	3.11E+02	3.11E+02	3.11E+02	100	100	3.05E+00	3.00E+00	3.00E+00
Typical	Ground	Human	Hback	A/M/L	9.19E+02	4.59E+02	4.59E+02	7.32E+01	7.32E+01	7.32E+01	100	100	6.78E-01	6.31E-01	6.31E-01
Typical	Ground	ATV	Spot	A	3.50E+03	1.75E+03	1.75E+03	3.45E+02	3.45E+02	3.45E+02	100	100	3.14E+00	2.88E+00	2.88E+00
Typical	Ground	ATV	Spot	M/L	9.90E+04	4.95E+04	4.95E+04	1.87E+03	1.87E+03	1.87E+03	100	100	1.83E+01	1.80E+01	1.80E+01
Typical	Ground	ATV	Spot	A/M/L	3.31E+03	1.65E+03	1.65E+03	2.64E+02	2.64E+02	2.64E+02	100	100	2.44E+00	2.27E+00	2.27E+00
Typical	Ground	ATV	B/B	A	3.05E+04	1.52E+04	1.52E+04	5.68E+02	5.68E+02	5.68E+02	100	100	5.57E+00	5.47E+00	5.47E+00
Typical	Ground	ATV	B/B	M/L	3.09E+04	1.55E+04	1.55E+04	5.83E+02	5.83E+02	5.83E+02	100	100	5.73E+00	5.62E+00	5.62E+00
Typical	Ground	ATV	B/B	A/M/L	1.15E+04	5.77E+03	5.77E+03	2.16E+02	2.16E+02	2.16E+02	100	100	2.13E+00	2.09E+00	2.09E+00
Typical	Ground	Truck Mount	Spot	A	1.92E+03	9.60E+02	9.60E+02	1.89E+02	1.89E+02	1.89E+02	100	100	1.72E+00	1.58E+00	1.58E+00
Typical	Ground	Truck Mount	Spot	M/L	4.88E+04	2.44E+04	2.44E+04	9.21E+02	9.21E+02	9.21E+02	100	100	9.04E+00	8.88E+00	8.88E+00
Typical	Ground	Truck Mount	Spot	A/M/L	1.81E+03	9.07E+02	9.07E+02	1.44E+02	1.44E+02	1.44E+02	100	100	1.34E+00	1.25E+00	1.25E+00
Typical	Ground	Truck Mount	B/B	A	1.63E+04	8.13E+03	8.13E+03	3.03E+02	3.03E+02	3.03E+02	100	100	2.97E+00	2.92E+00	2.92E+00
Typical	Ground	Truck Mount	B/B	M/L	1.65E+04	8.25E+03	8.25E+03	3.11E+02	3.11E+02	3.11E+02	100	100	3.05E+00	3.00E+00	3.00E+00
Typical	Ground	Truck Mount	B/B	A/M/L	6.15E+03	3.08E+03	3.08E+03	1.15E+02	1.15E+02	1.15E+02	100	100	1.13E+00	1.11E+00	1.11E+00
Typical	Aquatic	Boat	Spot	A	2.51E+03	1.26E+03	1.26E+03	NC	NC	NC	100	100	2.51E+01	1.26E+01	1.26E+01
Typical	Aquatic	Boat	Spot	M/L	3.63E+03	1.82E+03	1.82E+03	NC	NC	NC	100	100	3.63E+01	1.82E+01	1.82E+01
Typical	Aquatic	Boat	Spot	A/M/L	6.67E+02	3.33E+02	3.33E+02	NC	NC	NC	100	100	6.67E+00	3.33E+00	3.33E+00
Typical	Aquatic	Boat	B/B	A	2.51E+03	1.26E+03	1.26E+03	NC	NC	NC	100	100	2.51E+01	1.26E+01	1.26E+01
Typical	Aquatic	Boat	B/B	M/L	3.63E+03	1.82E+03	1.82E+03	NC	NC	NC	100	100	3.63E+01	1.82E+01	1.82E+01
Typical	Aquatic	Boat	B/B	A/M/L	6.67E+02	3.33E+02	3.33E+02	NC	NC	NC	100	100	6.67E+00	3.33E+00	3.33E+00

Calculation: Aggregate Risk Level
Scenario: Occupational - Routine Exposure
Pathway: Dermal Contact with and Inhalation of Herbicide
Herbicide: Diquat
Program: Aquatic

Scenario	Application Type	Application Vehicle	Application Method	Receptor	Margin of Exposure Dermal Exposure (unitless)			Margin of Exposure Inhalation Exposure (unitless)			Target Margin of Exposure		Aggregate Risk Index		
					Short	Int	Long	Short	Int	Long	Dermal	Inhalation	Short	Int	Long
Max	Aerial	Plane	FW	P	6.47E+01	3.23E+01	3.23E+01	2.06E+00	2.06E+00	2.06E+00	100	100	2.00E-02	1.94E-02	1.94E-02
Max	Aerial	Plane	FW	M/L	6.19E+00	3.09E+00	3.09E+00	1.17E-01	1.17E-01	1.17E-01	100	100	1.15E-03	1.12E-03	1.12E-03
Max	Aerial	Helicopter	Rotary	P	1.62E+02	8.08E+01	8.08E+01	5.15E+00	5.15E+00	5.15E+00	100	100	4.99E-02	4.84E-02	4.84E-02
Max	Aerial	Helicopter	Rotary	M/L	1.55E+01	7.73E+00	7.73E+00	2.92E-01	2.92E-01	2.92E-01	100	100	2.86E-03	2.81E-03	2.81E-03
Max	Ground	Human	Bpack	A/M/L	7.11E+01	3.56E+01	3.56E+01	5.83E+00	5.83E+00	5.83E+00	100	100	5.39E-02	5.01E-02	5.01E-02
Max	Ground	Human	Hback	A	1.37E+02	6.84E+01	6.84E+01	1.35E+01	1.35E+01	1.35E+01	100	100	1.23E-01	1.12E-01	1.12E-01
Max	Ground	Human	Hback	M/L	2.32E+03	1.16E+03	1.16E+03	4.38E+01	4.38E+01	4.38E+01	100	100	4.29E-01	4.22E-01	4.22E-01
Max	Ground	Human	Hback	A/M/L	1.29E+02	6.46E+01	6.46E+01	1.03E+01	1.03E+01	1.03E+01	100	100	9.53E-02	8.88E-02	8.88E-02
Max	Ground	ATV	Spot	A	2.43E+02	1.22E+02	1.22E+02	2.39E+01	2.39E+01	2.39E+01	100	100	2.18E-01	2.00E-01	2.00E-01
Max	Ground	ATV	Spot	M/L	6.19E+03	3.09E+03	3.09E+03	1.17E+02	1.17E+02	1.17E+02	100	100	1.15E+00	1.12E+00	1.12E+00
Max	Ground	ATV	Spot	A/M/L	2.30E+02	1.15E+02	1.15E+02	1.83E+01	1.83E+01	1.83E+01	100	100	1.69E-01	1.58E-01	1.58E-01
Max	Ground	ATV	B/B	A	2.12E+03	1.06E+03	1.06E+03	3.94E+01	3.94E+01	3.94E+01	100	100	3.87E-01	3.80E-01	3.80E-01
Max	Ground	ATV	B/B	M/L	2.32E+03	1.16E+03	1.16E+03	4.38E+01	4.38E+01	4.38E+01	100	100	4.29E-01	4.22E-01	4.22E-01
Max	Ground	ATV	B/B	A/M/L	8.01E+02	4.01E+02	4.01E+02	1.50E+01	1.50E+01	1.50E+01	100	100	1.48E-01	1.45E-01	1.45E-01
Max	Ground	Truck Mount	Spot	A	1.09E+02	5.47E+01	5.47E+01	1.08E+01	1.08E+01	1.08E+01	100	100	9.80E-02	9.00E-02	9.00E-02
Max	Ground	Truck Mount	Spot	M/L	2.32E+03	1.16E+03	1.16E+03	4.38E+01	4.38E+01	4.38E+01	100	100	4.29E-01	4.22E-01	4.22E-01
Max	Ground	Truck Mount	Spot	A/M/L	1.03E+02	5.17E+01	5.17E+01	8.24E+00	8.24E+00	8.24E+00	100	100	7.63E-02	7.10E-02	7.10E-02
Max	Ground	Truck Mount	B/B	A	1.69E+03	8.47E+02	8.47E+02	3.15E+01	3.15E+01	3.15E+01	100	100	3.10E-01	3.04E-01	3.04E-01
Max	Ground	Truck Mount	B/B	M/L	1.37E+03	6.87E+02	6.87E+02	2.59E+01	2.59E+01	2.59E+01	100	100	2.54E-01	2.50E-01	2.50E-01
Max	Ground	Truck Mount	B/B	A/M/L	6.41E+02	3.20E+02	3.20E+02	1.20E+01	1.20E+01	1.20E+01	100	100	1.18E-01	1.16E-01	1.16E-01
Max	Aquatic	Boat	Spot	A	1.67E+03	8.37E+02	8.37E+02	NC	NC	NC	100	100	1.67E+01	8.37E+00	8.37E+00
Max	Aquatic	Boat	Spot	M/L	1.82E+03	9.08E+02	9.08E+02	NC	NC	NC	100	100	1.82E+01	9.08E+00	9.08E+00
Max	Aquatic	Boat	Spot	A/M/L	4.45E+02	2.22E+02	2.22E+02	NC	NC	NC	100	100	4.45E+00	2.22E+00	2.22E+00
Max	Aquatic	Boat	B/B	A	1.67E+03	8.37E+02	8.37E+02	NC	NC	NC	100	100	1.67E+01	8.37E+00	8.37E+00
Max	Aquatic	Boat	B/B	M/L	1.82E+03	9.08E+02	9.08E+02	NC	NC	NC	100	100	1.82E+01	9.08E+00	9.08E+00
Max	Aquatic	Boat	B/B	A/M/L	4.45E+02	2.22E+02	2.22E+02	NC	NC	NC	100	100	4.45E+00	2.22E+00	2.22E+00

Notes: