

Appendix J2-A

Predicted Game Meat Concentrations

Table J2-A-1 Maximum Predicted Soil Concentration (mg/kg)			
Chemical	Baseline	Application	PDC
Aromatic C9-C16 group	2.7E-04	3.9E-03	4.2E-03
Aromatic C17-C34 group	6.5E-06	1.0E-05	1.0E-05
Formaldehyde	8.5E-10	8.5E-10	1.7E-09
Pyrene	2.7E-04	2.7E-04	5.6E-04

Table J2-A-2 Maximum Predicted Surface Water Concentration (mg/L)			
Chemical	Baseline	Application	PDC
Aromatic C9-C16 group	4.2E-04	2.0E-01	2.0E-01
Aromatic C17-C34 group	9.7E-08	1.5E-07	1.5E-07
Formaldehyde	3.4E-04	3.4E-04	6.9E-04
Pyrene	4.0E-05	4.0E-05	6.1E-05

Table J2-A-3 Maximum Predicted Soil Concentration (mg/kg)

Chemical	Baseline	Application	PDC
2-methylnaphthalene	1.4E-09	2.1E-09	2.1E-09
3-methylcholanthrene	6.5E-06	1.0E-05	1.0E-05
7,12-dimethylbenz(a)anthracene	2.6E-05	4.1E-05	4.1E-05
acenaphthene	1.0E-07	1.0E-07	2.1E-07
acenaphthylene	7.1E-08	7.1E-08	1.5E-07
anthracene	2.3E-06	2.3E-06	4.7E-06
aromatic C9-C16 group 2	2.7E-04	3.9E-03	4.2E-03
benz(a)anthracene	6.4E-05	6.4E-05	1.3E-04
benzo(a)pyrene	2.4E-05	2.4E-05	4.9E-05
benzo(b)fluoranthene	9.2E-06	9.2E-06	1.9E-05
benzo(g,h,i)perylene	6.7E-05	6.8E-05	1.4E-04
benzo(k)fluoranthene	7.0E-05	7.0E-05	1.5E-04
chrysene	2.1E-04	2.1E-04	4.4E-04
dibenz(a,h)anthracene	1.0E-04	1.0E-04	2.1E-04
fluoranthene	2.5E-05	1.3E-01	1.3E-01
fluorene	1.8E-06	3.6E-03	3.6E-03
formaldehyde	8.5E-10	8.5E-10	1.7E-09
indeno(1,2,3-cd)pyrene	5.9E-05	5.9E-05	1.2E-04
naphthalene	2.1E-07	2.1E-07	4.3E-07
phenanthrene	3.8E-05	3.8E-05	7.9E-05
pyrene	2.7E-04	2.7E-04	5.6E-04

Table J2-A-4 Maximum Predicted Surface Water Concentration (mg/L)

Chemical	Baseline	Application	PDC
2-methylnaphthalene	5.3E-08	8.4E-08	8.4E-08
3-methylcholanthrene	9.7E-08	1.5E-07	1.5E-07
7,12-dimethylbenz(a)anthracene	8.7E-07	1.4E-06	1.4E-06
acenaphthene	2.1E-06	2.1E-06	4.3E-06
acenaphthylene	3.7E-05	3.7E-05	7.7E-05
anthracene	3.1E-06	3.1E-06	6.4E-06
aromatic C9-C16 group 2	4.2E-04	2.0E-01	2.0E-01
benz(a)anthracene	2.5E-05	2.5E-05	3.0E-05
benzo(a)pyrene	1.1E-05	1.1E-05	1.2E-05
benzo(b)fluoranthene	4.2E-06	4.2E-06	8.7E-06
benzo(g,h,i)perylene	2.4E-06	2.4E-06	4.9E-06
benzo(k)fluoranthene	3.2E-07	3.2E-07	6.7E-07
chrysene	5.0E-06	5.0E-06	1.1E-05
dibenz(a,h)anthracene	2.3E-06	2.3E-06	4.8E-06
fluoranthene	2.6E-05	1.4E-01	1.4E-01
fluorene	9.7E-05	2.0E-01	2.0E-01
formaldehyde	3.4E-04	3.4E-04	6.9E-04
indeno(1,2,3-cd)pyrene	1.8E-06	1.8E-06	3.8E-06
naphthalene	2.4E-04	2.4E-04	5.0E-04
phenanthrene	2.4E-04	2.4E-04	4.5E-04
pyrene	4.0E-05	4.0E-05	6.1E-05

Table J2-A-5 Predicted Game Meat Concentration (mg/kg-FW)						
Receptor	Chemical	Baseline	Application	PDC	KNOC Alone	Future
Moose	2-methylnaphthalene	4.9E-05	7.8E-05	7.8E-05	6.9E-05	4.4E-05
Moose	3-methylcholanthrene	8.2E-05	1.3E-04	1.3E-04	1.2E-04	7.3E-05
Moose	7,12-dimethylbenz(a)anthracene	1.1E-05	1.8E-05	1.8E-05	1.6E-05	9.9E-06
Moose	acenaphthene	1.8E-03	1.8E-03	3.7E-03	1.3E-05	1.9E-03
Moose	acenaphthylene	3.3E-02	3.3E-02	6.8E-02	1.1E-04	3.5E-02
Moose	anthracene	3.7E-05	3.7E-05	7.7E-05	8.3E-07	4.0E-05
Moose	benz(a)anthracene	3.5E-04	3.5E-04	4.3E-04	2.0E-06	7.6E-05
Moose	benzo(a)pyrene	1.5E-04	1.5E-04	1.6E-04	1.3E-06	1.7E-05
Moose	benzo(b)fluoranthene	5.4E-05	5.4E-05	1.1E-04	1.8E-06	5.9E-05
Moose	benzo(g,h,i)perylene	2.1E-05	2.1E-05	4.4E-05	8.1E-07	2.3E-05
Moose	benzo(k)fluoranthene	5.5E-06	5.6E-06	1.2E-05	8.2E-07	6.0E-06
Moose	chrysene	7.3E-05	7.3E-05	1.5E-04	2.0E-06	7.9E-05
Moose	dibenz(a,h)anthracene	6.1E-05	6.1E-05	1.3E-04	2.4E-06	6.6E-05
Moose	fluoranthene	3.7E-04	1.9E+00	1.9E+00	1.9E+00	1.9E+00
Moose	fluorene	1.0E-03	2.0E+00	2.0E+00	2.0E+00	2.0E+00
Moose	formaldehyde	1.4E-06	1.4E-06	2.9E-06	6.7E-11	1.4E-06
Moose	indeno(1,2,3-cd)pyrene	2.0E-05	2.1E-05	4.3E-05	2.4E-06	2.2E-05
Moose	naphthalene	3.9E-06	3.9E-06	8.1E-06	3.3E-09	4.2E-06
Moose	phenanthrene	2.9E-03	2.9E-03	5.4E-03	1.5E-05	2.5E-03
Moose	pyrene	5.4E-04	5.4E-04	8.4E-04	5.2E-06	2.9E-04
Ruffed_grouse	2-methylnaphthalene	1.3E-10	2.0E-10	2.0E-10	1.8E-10	1.1E-10
Ruffed_grouse	3-methylcholanthrene	1.0E-08	1.6E-08	1.6E-08	1.5E-08	9.2E-09
Ruffed_grouse	7,12-dimethylbenz(a)anthracene	3.6E-09	5.7E-09	5.8E-09	5.1E-09	3.2E-09
Ruffed_grouse	acenaphthene	3.0E-09	3.0E-09	6.3E-09	2.2E-11	3.3E-09
Ruffed_grouse	acenaphthylene	3.4E-08	3.4E-08	7.1E-08	1.1E-10	3.7E-08
Ruffed_grouse	anthracene	1.6E-10	1.6E-10	3.3E-10	3.6E-12	1.7E-10
Ruffed_grouse	benz(a)anthracene	1.6E-08	1.6E-08	3.2E-08	4.4E-10	1.7E-08
Ruffed_grouse	benzo(a)pyrene	5.6E-09	5.6E-09	1.2E-08	4.8E-10	6.0E-09
Ruffed_grouse	benzo(b)fluoranthene	1.1E-09	1.1E-09	2.3E-09	3.6E-11	1.2E-09
Ruffed_grouse	benzo(g,h,i)perylene	1.0E-08	1.0E-08	2.1E-08	3.8E-10	1.1E-08
Ruffed_grouse	benzo(k)fluoranthene	6.3E-09	6.3E-09	1.3E-08	9.3E-10	6.8E-09
Ruffed_grouse	chrysene	1.0E-08	1.0E-08	2.1E-08	2.7E-10	1.1E-08
Ruffed_grouse	dibenz(a,h)anthracene	1.4E-07	1.4E-07	3.0E-07	5.7E-09	1.5E-07
Ruffed_grouse	fluoranthene	2.7E-09	1.4E-05	1.4E-05	1.4E-05	1.4E-05
Ruffed_grouse	fluorene	1.1E-09	2.3E-06	2.3E-06	2.3E-06	2.3E-06
Ruffed_grouse	formaldehyde	2.6E-09	2.6E-09	5.3E-09	1.2E-13	2.7E-09
Ruffed_grouse	indeno(1,2,3-cd)pyrene	7.5E-09	7.5E-09	1.6E-08	8.9E-10	8.2E-09
Ruffed_grouse	naphthalene	1.4E-09	1.4E-09	3.0E-09	1.2E-12	1.5E-09

Table J2-A-5 Predicted Game Meat Concentration (mg/kg-FW)						
Receptor	Chemical	Baseline	Application	PDC	KNOC Alone	Future
Ruffed_grouse	phenanthrene	5.4E-09	5.4E-09	1.1E-08	3.2E-11	5.2E-09
Ruffed_grouse	pyrene	6.2E-09	6.2E-09	1.3E-08	1.1E-10	6.4E-09
Snowshoe_hare	2-methylnaphthalene	4.4E-10	6.9E-10	6.9E-10	6.1E-10	3.9E-10
Snowshoe_hare	3-methylcholanthrene	2.1E-08	3.3E-08	3.3E-08	2.9E-08	1.8E-08
Snowshoe_hare	7,12-dimethylbenz(a)anthracene	1.2E-08	1.9E-08	1.9E-08	1.7E-08	1.1E-08
Snowshoe_hare	acenaphthene	1.1E-08	1.1E-08	2.2E-08	7.8E-11	1.2E-08
Snowshoe_hare	acenaphthylene	1.3E-07	1.3E-07	2.7E-07	4.2E-10	1.4E-07
Snowshoe_hare	anthracene	4.9E-10	4.9E-10	1.0E-09	1.1E-11	5.4E-10
Snowshoe_hare	benz(a)anthracene	5.3E-08	5.3E-08	1.1E-07	1.5E-09	5.6E-08
Snowshoe_hare	benzo(a)pyrene	1.9E-08	1.9E-08	3.9E-08	1.6E-09	2.0E-08
Snowshoe_hare	benzo(b)fluoranthene	3.6E-09	3.6E-09	7.4E-09	1.2E-10	3.9E-09
Snowshoe_hare	benzo(g,h,i)perylene	3.4E-08	3.4E-08	7.0E-08	1.3E-09	3.7E-08
Snowshoe_hare	benzo(k)fluoranthene	1.9E-08	2.0E-08	4.1E-08	2.9E-09	2.1E-08
Snowshoe_hare	chrysene	2.7E-08	2.7E-08	5.7E-08	7.3E-10	3.0E-08
Snowshoe_hare	dibenz(a,h)anthracene	5.0E-07	5.0E-07	1.0E-06	2.0E-08	5.4E-07
Snowshoe_hare	fluoranthene	8.6E-09	4.4E-05	4.4E-05	4.4E-05	4.4E-05
Snowshoe_hare	fluorene	4.3E-09	8.7E-06	8.7E-06	8.7E-06	8.7E-06
Snowshoe_hare	formaldehyde	9.4E-09	9.4E-09	1.9E-08	4.4E-13	9.5E-09
Snowshoe_hare	indeno(1,2,3-cd)pyrene	2.5E-08	2.5E-08	5.2E-08	2.9E-09	2.7E-08
Snowshoe_hare	naphthalene	5.4E-09	5.4E-09	1.1E-08	4.6E-12	5.8E-09
Snowshoe_hare	phenanthrene	1.9E-08	1.9E-08	3.7E-08	1.1E-10	1.8E-08
Snowshoe_hare	pyrene	1.1E-08	1.1E-08	2.2E-08	1.9E-10	1.1E-08

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/kg-BW/day	EDI mg/kg ww
Baseline	MAX	Moose	2-methylnaphthalene	3.19E-09	8.58E-08	1.89E-03	0.00E+00	1.29E-06	8.44E-07	1.89E-03	4.20E-06	4.95E-05
Application	MAX	Moose	2-methylnaphthalene	5.03E-09	1.35E-07	2.98E-03	0.00E+00	2.03E-06	1.33E-06	2.98E-03	6.63E-06	7.80E-05
PDC	MAX	Moose	2-methylnaphthalene	5.04E-09	1.36E-07	2.99E-03	0.00E+00	2.04E-06	1.33E-06	2.99E-03	6.64E-06	7.82E-05
KNOC Alone	MAX	Moose	2-methylnaphthalene	4.46E-09	1.20E-07	2.64E-03	0.00E+00	1.80E-06	1.18E-06	2.65E-03	5.88E-06	6.92E-05
Future	MAX	Moose	2-methylnaphthalene	2.83E-09	7.60E-08	1.67E-03	0.00E+00	1.14E-06	7.48E-07	1.68E-03	3.72E-06	4.38E-05
Baseline	MAX	Ruffed_Grouse	2-methylnaphthalene	7.11E-11	4.61E-10	0.00E+00	3.20E-12	2.48E-09	3.63E-09	6.65E-09	9.47E-09	1.28E-10
Application	MAX	Ruffed_Grouse	2-methylnaphthalene	1.12E-10	7.26E-10	0.00E+00	5.04E-12	3.92E-09	5.73E-09	1.05E-08	1.49E-08	2.02E-10
PDC	MAX	Ruffed_Grouse	2-methylnaphthalene	1.12E-10	7.28E-10	0.00E+00	5.05E-12	3.93E-09	5.74E-09	1.05E-08	1.50E-08	2.03E-10
KNOC Alone	MAX	Ruffed_Grouse	2-methylnaphthalene	9.95E-11	6.44E-10	0.00E+00	4.47E-12	3.47E-09	5.08E-09	9.30E-09	1.32E-08	1.79E-10
Future	MAX	Ruffed_Grouse	2-methylnaphthalene	6.30E-11	4.08E-10	0.00E+00	2.83E-12	2.20E-09	3.22E-09	5.89E-09	8.39E-09	1.14E-10
Baseline	MAX	Snowshoe_hare	2-methylnaphthalene	5.03E-11	1.20E-09	0.00E+00	0.00E+00	7.15E-09	8.33E-09	1.67E-08	1.20E-08	4.38E-10
Application	MAX	Snowshoe_hare	2-methylnaphthalene	7.92E-11	1.89E-09	0.00E+00	0.00E+00	1.13E-08	1.31E-08	2.64E-08	1.88E-08	6.90E-10
PDC	MAX	Snowshoe_hare	2-methylnaphthalene	7.94E-11	1.90E-09	0.00E+00	0.00E+00	1.13E-08	1.32E-08	2.65E-08	1.89E-08	6.92E-10
KNOC Alone	MAX	Snowshoe_hare	2-methylnaphthalene	7.03E-11	1.68E-09	0.00E+00	0.00E+00	1.00E-08	1.17E-08	2.34E-08	1.67E-08	6.12E-10
Future	MAX	Snowshoe_hare	2-methylnaphthalene	4.45E-11	1.06E-09	0.00E+00	0.00E+00	6.34E-09	7.38E-09	1.48E-08	1.06E-08	3.88E-10
Baseline	MAX	Moose	3-methylcholanthrene	1.52E-05	4.50E-05	3.44E-03	0.00E+00	2.35E-06	6.32E-08	3.51E-03	7.79E-06	8.22E-05
Application	MAX	Moose	3-methylcholanthrene	2.40E-05	7.10E-05	5.43E-03	0.00E+00	3.71E-06	9.98E-08	5.53E-03	1.23E-05	1.30E-04
PDC	MAX	Moose	3-methylcholanthrene	2.40E-05	7.12E-05	5.45E-03	0.00E+00	3.72E-06	1.00E-07	5.55E-03	1.23E-05	1.30E-04
KNOC Alone	MAX	Moose	3-methylcholanthrene	2.12E-05	6.30E-05	4.82E-03	0.00E+00	3.29E-06	8.85E-08	4.91E-03	1.09E-05	1.15E-04
Future	MAX	Moose	3-methylcholanthrene	1.35E-05	3.99E-05	3.06E-03	0.00E+00	2.09E-06	5.61E-08	3.11E-03	6.91E-06	7.30E-05
Baseline	MAX	Ruffed_Grouse	3-methylcholanthrene	3.38E-07	2.42E-07	0.00E+00	1.52E-08	4.53E-09	2.72E-10	6.00E-07	8.55E-07	1.04E-08
Application	MAX	Ruffed_Grouse	3-methylcholanthrene	5.34E-07	3.81E-07	0.00E+00	2.40E-08	7.14E-09	4.29E-10	9.47E-07	1.35E-06	1.64E-08
PDC	MAX	Ruffed_Grouse	3-methylcholanthrene	5.35E-07	3.82E-07	0.00E+00	2.41E-08	7.16E-09	4.30E-10	9.49E-07	1.35E-06	1.64E-08
KNOC Alone	MAX	Ruffed_Grouse	3-methylcholanthrene	4.73E-07	3.38E-07	0.00E+00	2.13E-08	6.33E-09	3.81E-10	8.39E-07	1.20E-06	1.45E-08
Future	MAX	Ruffed_Grouse	3-methylcholanthrene	3.00E-07	2.14E-07	0.00E+00	1.35E-08	4.02E-09	2.41E-10	5.32E-07	7.59E-07	9.20E-09
Baseline	MAX	Snowshoe_hare	3-methylcholanthrene	2.39E-07	6.30E-07	0.00E+00	0.00E+00	1.30E-08	6.24E-10	8.83E-07	6.31E-07	2.07E-08
Application	MAX	Snowshoe_hare	3-methylcholanthrene	3.77E-07	9.94E-07	0.00E+00	0.00E+00	2.06E-08	9.85E-10	1.39E-06	9.95E-07	3.27E-08
PDC	MAX	Snowshoe_hare	3-methylcholanthrene	3.78E-07	9.96E-07	0.00E+00	0.00E+00	2.06E-08	9.87E-10	1.40E-06	9.97E-07	3.27E-08
KNOC Alone	MAX	Snowshoe_hare	3-methylcholanthrene	3.35E-07	8.81E-07	0.00E+00	0.00E+00	1.82E-08	8.73E-10	1.23E-06	8.82E-07	2.90E-08
Future	MAX	Snowshoe_hare	3-methylcholanthrene	2.12E-07	5.59E-07	0.00E+00	0.00E+00	1.16E-08	5.54E-10	7.83E-07	5.60E-07	1.84E-08
Baseline	MAX	Moose	7,12-dimethylbenz(a)anthracene	6.15E-05	2.46E-03	3.06E-02	0.00E+00	2.09E-05	5.63E-07	3.32E-02	7.37E-05	1.12E-05
Application	MAX	Moose	7,12-dimethylbenz(a)anthracene	9.70E-05	3.89E-03	4.83E-02	0.00E+00	3.30E-05	8.87E-07	5.23E-02	1.16E-04	1.76E-05
PDC	MAX	Moose	7,12-dimethylbenz(a)anthracene	9.72E-05	3.89E-03	4.84E-02	0.00E+00	3.31E-05	8.90E-07	5.25E-02	1.17E-04	1.76E-05
KNOC Alone	MAX	Moose	7,12-dimethylbenz(a)anthracene	8.61E-05	3.45E-03	4.29E-02	0.00E+00	2.93E-05	7.87E-07	4.64E-02	1.03E-04	1.56E-05
Future	MAX	Moose	7,12-dimethylbenz(a)anthracene	5.46E-05	2.19E-03	2.72E-02	0.00E+00	1.86E-05	4.99E-07	2.94E-02	6.54E-05	9.91E-06
Baseline	MAX	Ruffed_Grouse	7,12-dimethylbenz(a)anthracene	1.37E-06	1.32E-05	0.00E+00	6.16E-08	4.03E-08	2.42E-09	1.47E-05	2.09E-05	3.64E-09
Application	MAX	Ruffed_Grouse	7,12-dimethylbenz(a)anthracene	2.16E-06	2.09E-05	0.00E+00	9.71E-08	6.35E-08	3.82E-09	2.32E-05	3.30E-05	5.75E-09
PDC	MAX	Ruffed_Grouse	7,12-dimethylbenz(a)anthracene	2.17E-06	2.09E-05	0.00E+00	9.74E-08	6.37E-08	3.83E-09	2.32E-05	3.31E-05	5.76E-09

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI	EDI	EDI	EDI	EDI	EDI	EDI	EDI	
				mg/day	mg/day	mg/day	mg/day	mg/day	mg/day	mg/kg-BW/day	mg/kg ww	
KNOC Alone	MAX	Ruffed_Grouse	7,12-dimethylbenz(a)anthracene	1.92E-06	1.85E-05	0.00E+00	8.62E-08	5.64E-08	3.39E-09	2.06E-05	2.93E-05	5.10E-09
Future	MAX	Ruffed_Grouse	7,12-dimethylbenz(a)anthracene	1.22E-06	1.17E-05	0.00E+00	5.47E-08	3.57E-08	2.15E-09	1.30E-05	1.86E-05	3.23E-09
Baseline	MAX	Snowshoe_hare	7,12-dimethylbenz(a)anthracene	9.68E-07	3.45E-05	0.00E+00	0.00E+00	1.16E-07	5.55E-09	3.56E-05	2.54E-05	1.20E-08
Application	MAX	Snowshoe_hare	7,12-dimethylbenz(a)anthracene	1.53E-06	5.44E-05	0.00E+00	0.00E+00	1.83E-07	8.76E-09	5.61E-05	4.01E-05	1.89E-08
PDC	MAX	Snowshoe_hare	7,12-dimethylbenz(a)anthracene	1.53E-06	5.45E-05	0.00E+00	0.00E+00	1.83E-07	8.78E-09	5.62E-05	4.02E-05	1.89E-08
KNOC Alone	MAX	Snowshoe_hare	7,12-dimethylbenz(a)anthracene	1.36E-06	4.83E-05	0.00E+00	0.00E+00	1.62E-07	7.77E-09	4.98E-05	3.56E-05	1.67E-08
Future	MAX	Snowshoe_hare	7,12-dimethylbenz(a)anthracene	8.59E-07	3.06E-05	0.00E+00	0.00E+00	1.03E-07	4.93E-09	3.16E-05	2.25E-05	1.06E-08
Baseline	MAX	Moose	acenaphthene	2.35E-07	2.77E-06	7.26E-02	0.00E+00	4.96E-05	1.21E-05	7.27E-02	1.62E-04	1.77E-03
Application	MAX	Moose	acenaphthene	2.35E-07	2.77E-06	7.26E-02	0.00E+00	4.96E-05	1.21E-05	7.27E-02	1.62E-04	1.77E-03
PDC	MAX	Moose	acenaphthene	4.89E-07	5.77E-06	1.51E-01	0.00E+00	1.03E-04	2.53E-05	1.51E-01	3.37E-04	3.68E-03
KNOC Alone	MAX	Moose	acenaphthene	1.71E-09	2.02E-08	5.30E-04	0.00E+00	3.62E-07	8.85E-08	5.30E-04	1.18E-06	1.29E-05
Future	MAX	Moose	acenaphthene	2.54E-07	3.00E-06	7.87E-02	0.00E+00	5.37E-05	1.31E-05	7.87E-02	1.75E-04	1.91E-03
Baseline	MAX	Ruffed_Grouse	acenaphthene	5.23E-09	1.49E-08	0.00E+00	2.35E-10	9.55E-08	5.22E-08	1.68E-07	2.39E-07	3.01E-09
Application	MAX	Ruffed_Grouse	acenaphthene	5.23E-09	1.49E-08	0.00E+00	2.35E-10	9.55E-08	5.22E-08	1.68E-07	2.39E-07	3.01E-09
PDC	MAX	Ruffed_Grouse	acenaphthene	1.09E-08	3.10E-08	0.00E+00	4.90E-10	1.99E-07	1.09E-07	3.50E-07	4.99E-07	6.27E-09
KNOC Alone	MAX	Ruffed_Grouse	acenaphthene	3.82E-11	1.09E-10	0.00E+00	1.72E-12	6.97E-10	3.81E-10	1.23E-09	1.75E-09	2.20E-11
Future	MAX	Ruffed_Grouse	acenaphthene	5.67E-09	1.61E-08	0.00E+00	2.55E-10	1.03E-07	5.65E-08	1.82E-07	2.59E-07	3.26E-09
Baseline	MAX	Snowshoe_hare	acenaphthene	3.70E-09	3.88E-08	0.00E+00	0.00E+00	2.75E-07	1.20E-07	4.37E-07	3.12E-07	1.06E-08
Application	MAX	Snowshoe_hare	acenaphthene	3.70E-09	3.88E-08	0.00E+00	0.00E+00	2.75E-07	1.20E-07	4.37E-07	3.12E-07	1.06E-08
PDC	MAX	Snowshoe_hare	acenaphthene	7.70E-09	8.08E-08	0.00E+00	0.00E+00	5.73E-07	2.49E-07	9.10E-07	6.50E-07	2.21E-08
KNOC Alone	MAX	Snowshoe_hare	acenaphthene	2.70E-11	2.83E-10	0.00E+00	0.00E+00	2.01E-09	8.73E-10	3.19E-09	2.28E-09	7.76E-11
Future	MAX	Snowshoe_hare	acenaphthene	4.01E-09	4.20E-08	0.00E+00	0.00E+00	2.98E-07	1.30E-07	4.73E-07	3.38E-07	1.15E-08
Baseline	MAX	Moose	acenaphthylene	1.68E-07	2.42E-06	1.30E+00	0.00E+00	8.89E-04	2.73E-05	1.30E+00	2.90E-03	3.26E-02
Application	MAX	Moose	acenaphthylene	1.68E-07	2.42E-06	1.30E+00	0.00E+00	8.89E-04	2.73E-05	1.30E+00	2.90E-03	3.26E-02
PDC	MAX	Moose	acenaphthylene	3.49E-07	5.04E-06	2.71E+00	0.00E+00	1.85E-03	5.70E-05	2.72E+00	6.03E-03	6.78E-02
KNOC Alone	MAX	Moose	acenaphthylene	5.42E-10	7.83E-09	4.21E-03	0.00E+00	2.88E-06	8.85E-08	4.22E-03	9.37E-06	1.05E-04
Future	MAX	Moose	acenaphthylene	1.82E-07	2.62E-06	1.41E+00	0.00E+00	9.64E-04	2.96E-05	1.41E+00	3.14E-03	3.53E-02
Baseline	MAX	Ruffed_Grouse	acenaphthylene	3.74E-09	1.30E-08	0.00E+00	1.68E-10	1.71E-06	1.18E-07	1.85E-06	2.63E-06	3.40E-08
Application	MAX	Ruffed_Grouse	acenaphthylene	3.74E-09	1.30E-08	0.00E+00	1.68E-10	1.71E-06	1.18E-07	1.85E-06	2.63E-06	3.40E-08
PDC	MAX	Ruffed_Grouse	acenaphthylene	7.78E-09	2.71E-08	0.00E+00	3.50E-10	3.57E-06	2.45E-07	3.85E-06	5.48E-06	7.08E-08
KNOC Alone	MAX	Ruffed_Grouse	acenaphthylene	1.21E-11	4.20E-11	0.00E+00	5.43E-13	5.54E-09	3.81E-10	5.98E-09	8.51E-09	1.10E-10
Future	MAX	Ruffed_Grouse	acenaphthylene	4.05E-09	1.41E-08	0.00E+00	1.82E-10	1.86E-06	1.27E-07	2.00E-06	2.85E-06	3.68E-08
Baseline	MAX	Snowshoe_hare	acenaphthylene	2.64E-09	3.38E-08	0.00E+00	0.00E+00	4.93E-06	2.70E-07	5.23E-06	3.74E-06	1.31E-07
Application	MAX	Snowshoe_hare	acenaphthylene	2.64E-09	3.38E-08	0.00E+00	0.00E+00	4.93E-06	2.70E-07	5.23E-06	3.74E-06	1.31E-07
PDC	MAX	Snowshoe_hare	acenaphthylene	5.50E-09	7.05E-08	0.00E+00	0.00E+00	1.03E-05	5.62E-07	1.09E-05	7.79E-06	2.73E-07
KNOC Alone	MAX	Snowshoe_hare	acenaphthylene	8.54E-12	1.10E-10	0.00E+00	0.00E+00	1.60E-08	8.73E-10	1.69E-08	1.21E-08	4.23E-10
Future	MAX	Snowshoe_hare	acenaphthylene	2.86E-09	3.67E-08	0.00E+00	0.00E+00	5.34E-06	2.92E-07	5.67E-06	4.05E-06	1.42E-07
Baseline	MAX	Moose	anthracene	5.31E-06	6.56E-05	1.08E-01	0.00E+00	7.39E-05	5.23E-06	1.08E-01	2.41E-04	3.66E-05

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI	EDI	EDI	EDI	EDI	EDI	EDI	EDI	
				mg/day	mg/day	mg/day	mg/day	mg/day	mg/day	mg/kg-BW/day	mg/kg ww	
Application	MAX	Moose	anthracene	5.31E-06	6.56E-05	1.08E-01	0.00E+00	7.39E-05	5.23E-06	1.08E-01	2.41E-04	3.66E-05
PDC	MAX	Moose	anthracene	1.11E-05	1.37E-04	2.26E-01	0.00E+00	1.55E-04	1.09E-05	2.27E-01	5.04E-04	7.66E-05
KNOC Alone	MAX	Moose	anthracene	1.20E-07	1.48E-06	2.44E-03	0.00E+00	1.67E-06	1.18E-07	2.45E-03	5.44E-06	8.28E-07
Future	MAX	Moose	anthracene	5.80E-06	7.16E-05	1.18E-01	0.00E+00	8.07E-05	5.70E-06	1.18E-01	2.63E-04	4.00E-05
Baseline	MAX	Ruffed_Grouse	anthracene	1.18E-07	3.52E-07	0.00E+00	5.32E-09	1.42E-07	2.25E-08	6.40E-07	9.12E-07	1.60E-10
Application	MAX	Ruffed_Grouse	anthracene	1.18E-07	3.52E-07	0.00E+00	5.32E-09	1.42E-07	2.25E-08	6.41E-07	9.13E-07	1.60E-10
PDC	MAX	Ruffed_Grouse	anthracene	2.48E-07	7.36E-07	0.00E+00	1.11E-08	2.97E-07	4.70E-08	1.34E-06	1.91E-06	3.34E-10
KNOC Alone	MAX	Ruffed_Grouse	anthracene	2.67E-09	7.95E-09	0.00E+00	1.20E-10	3.21E-09	5.08E-10	1.45E-08	2.06E-08	3.60E-12
Future	MAX	Ruffed_Grouse	anthracene	1.29E-07	3.84E-07	0.00E+00	5.81E-09	1.55E-07	2.45E-08	6.99E-07	9.96E-07	1.74E-10
Baseline	MAX	Snowshoe_hare	anthracene	8.36E-08	9.18E-07	0.00E+00	0.00E+00	4.09E-07	5.16E-08	1.46E-06	1.04E-06	4.94E-10
Application	MAX	Snowshoe_hare	anthracene	8.37E-08	9.18E-07	0.00E+00	0.00E+00	4.10E-07	5.16E-08	1.46E-06	1.05E-06	4.95E-10
PDC	MAX	Snowshoe_hare	anthracene	1.75E-07	1.92E-06	0.00E+00	0.00E+00	8.56E-07	1.08E-07	3.06E-06	2.19E-06	1.03E-09
KNOC Alone	MAX	Snowshoe_hare	anthracene	1.89E-09	2.07E-08	0.00E+00	0.00E+00	9.25E-09	1.17E-09	3.30E-08	2.36E-08	1.12E-11
Future	MAX	Snowshoe_hare	anthracene	9.13E-08	1.00E-06	0.00E+00	0.00E+00	4.47E-07	5.63E-08	1.60E-06	1.14E-06	5.40E-10
Baseline	MAX	Moose	benz(a)anthracene	1.50E-04	8.99E-03	8.74E-01	0.00E+00	5.97E-04	3.04E-06	8.83E-01	1.96E-03	3.53E-04
Application	MAX	Moose	benz(a)anthracene	1.50E-04	9.00E-03	8.74E-01	0.00E+00	5.97E-04	3.04E-06	8.84E-01	1.96E-03	3.53E-04
PDC	MAX	Moose	benz(a)anthracene	3.12E-04	1.87E-02	1.05E+00	0.00E+00	7.19E-04	6.33E-06	1.07E+00	2.38E-03	4.28E-04
KNOC Alone	MAX	Moose	benz(a)anthracene	4.35E-06	2.62E-04	4.82E-03	0.00E+00	3.29E-06	8.85E-08	5.09E-03	1.13E-05	2.03E-06
Future	MAX	Moose	benz(a)anthracene	1.62E-04	9.74E-03	1.79E-01	0.00E+00	1.22E-04	3.29E-06	1.89E-01	4.21E-04	7.56E-05
Baseline	MAX	Ruffed_Grouse	benz(a)anthracene	3.33E-06	4.83E-05	0.00E+00	6.42E-08	1.15E-06	1.31E-08	5.28E-05	7.53E-05	1.55E-08
Application	MAX	Ruffed_Grouse	benz(a)anthracene	3.34E-06	4.83E-05	0.00E+00	6.43E-08	1.15E-06	1.31E-08	5.29E-05	7.53E-05	1.56E-08
PDC	MAX	Ruffed_Grouse	benz(a)anthracene	6.94E-06	1.01E-04	0.00E+00	1.34E-07	1.38E-06	2.72E-08	1.09E-04	1.55E-04	3.21E-08
KNOC Alone	MAX	Ruffed_Grouse	benz(a)anthracene	9.70E-08	1.40E-06	0.00E+00	1.87E-09	6.33E-09	3.81E-10	1.51E-06	2.15E-06	4.44E-10
Future	MAX	Ruffed_Grouse	benz(a)anthracene	3.61E-06	5.23E-05	0.00E+00	6.95E-08	2.36E-07	1.42E-08	5.62E-05	8.01E-05	1.65E-08
Baseline	MAX	Snowshoe_hare	benz(a)anthracene	2.36E-06	1.26E-04	0.00E+00	0.00E+00	3.31E-06	3.00E-08	1.32E-04	9.40E-05	5.25E-08
Application	MAX	Snowshoe_hare	benz(a)anthracene	2.36E-06	1.26E-04	0.00E+00	0.00E+00	3.31E-06	3.00E-08	1.32E-04	9.40E-05	5.26E-08
PDC	MAX	Snowshoe_hare	benz(a)anthracene	4.91E-06	2.62E-04	0.00E+00	0.00E+00	3.99E-06	6.25E-08	2.71E-04	1.94E-04	1.08E-07
KNOC Alone	MAX	Snowshoe_hare	benz(a)anthracene	6.86E-08	3.66E-06	0.00E+00	0.00E+00	1.82E-08	8.73E-10	3.75E-06	2.68E-06	1.50E-09
Future	MAX	Snowshoe_hare	benz(a)anthracene	2.55E-06	1.36E-04	0.00E+00	0.00E+00	6.79E-07	3.25E-08	1.40E-04	9.97E-05	5.57E-08
Baseline	MAX	Moose	benzo(a)pyrene	5.57E-05	3.44E-03	3.91E-01	0.00E+00	2.67E-04	6.80E-07	3.95E-01	8.77E-04	1.48E-04
Application	MAX	Moose	benzo(a)pyrene	5.58E-05	3.44E-03	3.91E-01	0.00E+00	2.67E-04	6.81E-07	3.95E-01	8.78E-04	1.48E-04
PDC	MAX	Moose	benzo(a)pyrene	1.16E-04	7.17E-03	4.31E-01	0.00E+00	2.95E-04	1.42E-06	4.39E-01	9.75E-04	1.65E-04
KNOC Alone	MAX	Moose	benzo(a)pyrene	4.83E-06	2.98E-04	3.21E-03	0.00E+00	2.19E-06	5.90E-08	3.52E-03	7.81E-06	1.32E-06
Future	MAX	Moose	benzo(a)pyrene	6.06E-05	3.74E-03	4.02E-02	0.00E+00	2.75E-05	7.39E-07	4.41E-02	9.79E-05	1.65E-05
Baseline	MAX	Ruffed_Grouse	benzo(a)pyrene	1.24E-06	1.85E-05	0.00E+00	5.58E-08	5.14E-07	2.92E-09	2.03E-05	2.89E-05	5.61E-09
Application	MAX	Ruffed_Grouse	benzo(a)pyrene	1.24E-06	1.85E-05	0.00E+00	5.59E-08	5.14E-07	2.93E-09	2.03E-05	2.89E-05	5.62E-09
PDC	MAX	Ruffed_Grouse	benzo(a)pyrene	2.59E-06	3.85E-05	0.00E+00	1.16E-07	5.67E-07	6.10E-09	4.18E-05	5.95E-05	1.16E-08
KNOC Alone	MAX	Ruffed_Grouse	benzo(a)pyrene	1.08E-07	1.60E-06	0.00E+00	4.84E-09	4.22E-09	2.54E-10	1.72E-06	2.45E-06	4.75E-10

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration mg/kg ww
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/kg-BW/day	
Future	MAX	Ruffed_Grouse	benzo(a)pyrene	1.35E-06	2.01E-05	0.00E+00	6.07E-08	5.29E-08	3.18E-09	2.15E-05	3.07E-05	5.96E-09
Baseline	MAX	Snowshoe_hare	benzo(a)pyrene	8.77E-07	4.81E-05	0.00E+00	0.00E+00	1.48E-06	6.71E-09	5.05E-05	3.60E-05	1.90E-08
Application	MAX	Snowshoe_hare	benzo(a)pyrene	8.80E-07	4.82E-05	0.00E+00	0.00E+00	1.48E-06	6.72E-09	5.06E-05	3.61E-05	1.90E-08
PDC	MAX	Snowshoe_hare	benzo(a)pyrene	1.83E-06	1.00E-04	0.00E+00	0.00E+00	1.63E-06	1.40E-08	1.04E-04	7.42E-05	3.90E-08
KNOC Alone	MAX	Snowshoe_hare	benzo(a)pyrene	7.61E-08	4.17E-06	0.00E+00	0.00E+00	1.22E-08	5.82E-10	4.26E-06	3.04E-06	1.60E-09
Future	MAX	Snowshoe_hare	benzo(a)pyrene	9.54E-07	5.23E-05	0.00E+00	0.00E+00	1.52E-07	7.29E-09	5.34E-05	3.81E-05	2.01E-08
Baseline	MAX	Moose	benzo(b)fluoranthene	2.17E-05	6.34E-04	1.48E-01	0.00E+00	1.01E-04	2.71E-06	1.48E-01	3.30E-04	5.41E-05
Application	MAX	Moose	benzo(b)fluoranthene	2.17E-05	6.35E-04	1.48E-01	0.00E+00	1.01E-04	2.71E-06	1.48E-01	3.30E-04	5.42E-05
PDC	MAX	Moose	benzo(b)fluoranthene	4.51E-05	1.32E-03	3.07E-01	0.00E+00	2.10E-04	5.65E-06	3.09E-01	6.87E-04	1.13E-04
KNOC Alone	MAX	Moose	benzo(b)fluoranthene	7.07E-07	2.07E-05	4.82E-03	0.00E+00	3.29E-06	8.85E-08	4.84E-03	1.08E-05	1.77E-06
Future	MAX	Moose	benzo(b)fluoranthene	2.35E-05	6.87E-04	1.60E-01	0.00E+00	1.09E-04	2.93E-06	1.61E-01	3.57E-04	5.86E-05
Baseline	MAX	Ruffed_Grouse	benzo(b)fluoranthene	4.83E-07	3.41E-06	0.00E+00	2.17E-08	1.94E-07	1.17E-08	4.12E-06	5.86E-06	1.11E-09
Application	MAX	Ruffed_Grouse	benzo(b)fluoranthene	4.83E-07	3.41E-06	0.00E+00	2.17E-08	1.94E-07	1.17E-08	4.12E-06	5.87E-06	1.11E-09
PDC	MAX	Ruffed_Grouse	benzo(b)fluoranthene	1.01E-06	7.09E-06	0.00E+00	4.52E-08	4.04E-07	2.43E-08	8.57E-06	1.22E-05	2.30E-09
KNOC Alone	MAX	Ruffed_Grouse	benzo(b)fluoranthene	1.58E-08	1.11E-07	0.00E+00	7.08E-10	6.33E-09	3.81E-10	1.34E-07	1.91E-07	3.61E-11
Future	MAX	Ruffed_Grouse	benzo(b)fluoranthene	5.23E-07	3.69E-06	0.00E+00	2.35E-08	2.10E-07	1.26E-08	4.46E-06	6.35E-06	1.20E-09
Baseline	MAX	Snowshoe_hare	benzo(b)fluoranthene	3.41E-07	8.88E-06	0.00E+00	0.00E+00	5.59E-07	2.68E-08	9.81E-06	7.00E-06	3.58E-09
Application	MAX	Snowshoe_hare	benzo(b)fluoranthene	3.41E-07	8.89E-06	0.00E+00	0.00E+00	5.59E-07	2.68E-08	9.81E-06	7.01E-06	3.58E-09
PDC	MAX	Snowshoe_hare	benzo(b)fluoranthene	7.11E-07	1.85E-05	0.00E+00	0.00E+00	1.16E-06	5.57E-08	2.04E-05	1.46E-05	7.45E-09
KNOC Alone	MAX	Snowshoe_hare	benzo(b)fluoranthene	1.11E-08	2.90E-07	0.00E+00	0.00E+00	1.82E-08	8.73E-10	3.20E-07	2.29E-07	1.17E-10
Future	MAX	Snowshoe_hare	benzo(b)fluoranthene	3.69E-07	9.61E-06	0.00E+00	0.00E+00	6.05E-07	2.90E-08	1.06E-05	7.58E-06	3.87E-09
Baseline	MAX	Moose	benzo(g,h,i)perylene	1.59E-04	1.05E-02	8.39E-02	0.00E+00	5.73E-05	1.54E-06	9.47E-02	2.10E-04	2.13E-05
Application	MAX	Moose	benzo(g,h,i)perylene	1.59E-04	1.05E-02	8.40E-02	0.00E+00	5.74E-05	1.54E-06	9.48E-02	2.11E-04	2.13E-05
PDC	MAX	Moose	benzo(g,h,i)perylene	3.31E-04	2.19E-02	1.75E-01	0.00E+00	1.20E-04	3.21E-06	1.97E-01	4.39E-04	4.43E-05
KNOC Alone	MAX	Moose	benzo(g,h,i)perylene	6.07E-06	4.02E-04	3.21E-03	0.00E+00	2.19E-06	5.90E-08	3.62E-03	8.05E-06	8.13E-07
Future	MAX	Moose	benzo(g,h,i)perylene	1.72E-04	1.14E-02	9.10E-02	0.00E+00	6.22E-05	1.67E-06	1.03E-01	2.28E-04	2.31E-05
Baseline	MAX	Ruffed_Grouse	benzo(g,h,i)perylene	3.53E-06	5.65E-05	0.00E+00	1.59E-07	1.10E-07	6.63E-09	6.03E-05	8.58E-05	9.97E-09
Application	MAX	Ruffed_Grouse	benzo(g,h,i)perylene	3.54E-06	5.65E-05	0.00E+00	1.59E-07	1.10E-07	6.64E-09	6.03E-05	8.59E-05	9.98E-09
PDC	MAX	Ruffed_Grouse	benzo(g,h,i)perylene	7.37E-06	1.18E-04	0.00E+00	3.31E-07	2.30E-07	1.38E-08	1.26E-04	1.79E-04	2.08E-08
KNOC Alone	MAX	Ruffed_Grouse	benzo(g,h,i)perylene	1.35E-07	2.16E-06	0.00E+00	6.08E-09	4.22E-09	2.54E-10	2.30E-06	3.28E-06	3.81E-10
Future	MAX	Ruffed_Grouse	benzo(g,h,i)perylene	3.83E-06	6.12E-05	0.00E+00	1.72E-07	1.20E-07	7.19E-09	6.54E-05	9.31E-05	1.08E-08
Baseline	MAX	Snowshoe_hare	benzo(g,h,i)perylene	2.50E-06	1.47E-04	0.00E+00	0.00E+00	3.18E-07	1.52E-08	1.50E-04	1.07E-04	3.37E-08
Application	MAX	Snowshoe_hare	benzo(g,h,i)perylene	2.50E-06	1.47E-04	0.00E+00	0.00E+00	3.18E-07	1.52E-08	1.50E-04	1.07E-04	3.37E-08
PDC	MAX	Snowshoe_hare	benzo(g,h,i)perylene	5.21E-06	3.07E-04	0.00E+00	0.00E+00	6.62E-07	3.17E-08	3.13E-04	2.23E-04	7.02E-08
KNOC Alone	MAX	Snowshoe_hare	benzo(g,h,i)perylene	9.55E-08	5.63E-06	0.00E+00	0.00E+00	1.22E-08	5.82E-10	5.74E-06	4.10E-06	1.29E-09
Future	MAX	Snowshoe_hare	benzo(g,h,i)perylene	2.71E-06	1.60E-04	0.00E+00	0.00E+00	3.45E-07	1.65E-08	1.63E-04	1.16E-04	3.65E-08
Baseline	MAX	Moose	benzo(k)fluoranthene	1.64E-04	3.63E-03	1.14E-02	0.00E+00	7.79E-06	5.99E-07	1.52E-02	3.38E-05	5.55E-06
Application	MAX	Moose	benzo(k)fluoranthene	1.65E-04	3.65E-03	1.15E-02	0.00E+00	7.82E-06	6.01E-07	1.53E-02	3.39E-05	5.57E-06

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	Concentration
				EDI	EDI	EDI	EDI	EDI	EDI	EDI	EDI	mg/kg ww
				mg/day	mg/day	mg/day	mg/day	mg/day	mg/day	mg/kg-BW/day		
PDC	MAX	Moose	benzo(k)fluoranthene	3.42E-04	7.55E-03	2.37E-02	0.00E+00	1.62E-05	1.24E-06	3.16E-02	7.03E-05	1.15E-05
KNOC Alone	MAX	Moose	benzo(k)fluoranthene	2.43E-05	5.36E-04	1.68E-03	0.00E+00	1.15E-06	8.85E-08	2.25E-03	4.99E-06	8.19E-07
Future	MAX	Moose	benzo(k)fluoranthene	1.77E-04	3.92E-03	1.23E-02	0.00E+00	8.40E-06	6.46E-07	1.64E-02	3.65E-05	5.98E-06
Baseline	MAX	Ruffed_Grouse	benzo(k)fluoranthene	3.66E-06	1.95E-05	0.00E+00	1.88E-07	1.50E-08	2.58E-09	2.34E-05	3.33E-05	6.28E-09
Application	MAX	Ruffed_Grouse	benzo(k)fluoranthene	3.68E-06	1.96E-05	0.00E+00	1.89E-07	1.51E-08	2.59E-09	2.35E-05	3.34E-05	6.30E-09
PDC	MAX	Ruffed_Grouse	benzo(k)fluoranthene	7.61E-06	4.05E-05	0.00E+00	3.91E-07	3.12E-08	5.36E-09	4.86E-05	6.92E-05	1.30E-08
KNOC Alone	MAX	Ruffed_Grouse	benzo(k)fluoranthene	5.41E-07	2.88E-06	0.00E+00	2.78E-08	2.21E-09	3.81E-10	3.45E-06	4.92E-06	9.27E-10
Future	MAX	Ruffed_Grouse	benzo(k)fluoranthene	3.95E-06	2.10E-05	0.00E+00	2.03E-07	1.62E-08	2.78E-09	2.52E-05	3.59E-05	6.77E-09
Baseline	MAX	Snowshoe_hare	benzo(k)fluoranthene	2.59E-06	5.08E-05	0.00E+00	0.00E+00	4.32E-08	5.91E-09	5.35E-05	3.82E-05	1.95E-08
Application	MAX	Snowshoe_hare	benzo(k)fluoranthene	2.60E-06	5.10E-05	0.00E+00	0.00E+00	4.33E-08	5.94E-09	5.37E-05	3.83E-05	1.96E-08
PDC	MAX	Snowshoe_hare	benzo(k)fluoranthene	5.38E-06	1.06E-04	0.00E+00	0.00E+00	8.97E-08	1.23E-08	1.11E-04	7.94E-05	4.05E-08
KNOC Alone	MAX	Snowshoe_hare	benzo(k)fluoranthene	3.82E-07	7.51E-06	0.00E+00	0.00E+00	6.38E-09	8.73E-10	7.90E-06	5.64E-06	2.88E-09
Future	MAX	Snowshoe_hare	benzo(k)fluoranthene	2.79E-06	5.48E-05	0.00E+00	0.00E+00	4.66E-08	6.38E-09	5.77E-05	4.12E-05	2.10E-08
Baseline	MAX	Moose	chrysene	4.98E-04	4.26E-03	1.78E-01	0.00E+00	1.22E-04	3.28E-06	1.83E-01	4.07E-04	7.32E-05
Application	MAX	Moose	chrysene	4.99E-04	4.26E-03	1.79E-01	0.00E+00	1.22E-04	3.28E-06	1.83E-01	4.08E-04	7.32E-05
PDC	MAX	Moose	chrysene	1.04E-03	8.88E-03	3.72E-01	0.00E+00	2.54E-04	6.83E-06	3.82E-01	8.49E-04	1.53E-04
KNOC Alone	MAX	Moose	chrysene	1.35E-05	1.15E-04	4.82E-03	0.00E+00	3.29E-06	8.85E-08	4.95E-03	1.10E-05	1.98E-06
Future	MAX	Moose	chrysene	5.41E-04	4.62E-03	1.94E-01	0.00E+00	1.32E-04	3.56E-06	1.99E-01	4.42E-04	7.94E-05
Baseline	MAX	Ruffed_Grouse	chrysene	1.11E-05	2.29E-05	0.00E+00	2.85E-07	2.35E-07	1.41E-08	3.45E-05	4.92E-05	1.02E-08
Application	MAX	Ruffed_Grouse	chrysene	1.11E-05	2.29E-05	0.00E+00	2.86E-07	2.35E-07	1.41E-08	3.45E-05	4.92E-05	1.02E-08
PDC	MAX	Ruffed_Grouse	chrysene	2.32E-05	4.77E-05	0.00E+00	5.95E-07	4.89E-07	2.94E-08	7.20E-05	1.02E-04	2.12E-08
KNOC Alone	MAX	Ruffed_Grouse	chrysene	3.00E-07	6.17E-07	0.00E+00	7.70E-09	6.33E-09	3.81E-10	9.32E-07	1.33E-06	2.74E-10
Future	MAX	Ruffed_Grouse	chrysene	1.21E-05	2.48E-05	0.00E+00	3.10E-07	2.55E-07	1.53E-08	3.74E-05	5.33E-05	1.10E-08
Baseline	MAX	Snowshoe_hare	chrysene	7.85E-06	5.96E-05	0.00E+00	0.00E+00	6.75E-07	3.23E-08	6.82E-05	4.87E-05	2.72E-08
Application	MAX	Snowshoe_hare	chrysene	7.86E-06	5.97E-05	0.00E+00	0.00E+00	6.76E-07	3.24E-08	6.82E-05	4.87E-05	2.72E-08
PDC	MAX	Snowshoe_hare	chrysene	1.64E-05	1.24E-04	0.00E+00	0.00E+00	1.41E-06	6.74E-08	1.42E-04	1.02E-04	5.68E-08
KNOC Alone	MAX	Snowshoe_hare	chrysene	2.12E-07	1.61E-06	0.00E+00	0.00E+00	1.82E-08	8.73E-10	1.84E-06	1.31E-06	7.35E-10
Future	MAX	Snowshoe_hare	chrysene	8.52E-06	6.47E-05	0.00E+00	0.00E+00	7.33E-07	3.51E-08	7.40E-05	5.28E-05	2.95E-08
Baseline	MAX	Moose	dibenz(a,h)anthracene	2.41E-04	1.15E-01	8.08E-02	0.00E+00	5.52E-05	1.48E-06	1.96E-01	4.36E-04	6.08E-05
Application	MAX	Moose	dibenz(a,h)anthracene	2.42E-04	1.15E-01	8.08E-02	0.00E+00	5.52E-05	1.48E-06	1.96E-01	4.37E-04	6.08E-05
PDC	MAX	Moose	dibenz(a,h)anthracene	5.03E-04	2.40E-01	1.68E-01	0.00E+00	1.15E-04	3.09E-06	4.09E-01	9.09E-04	1.27E-04
KNOC Alone	MAX	Moose	dibenz(a,h)anthracene	9.60E-06	4.58E-03	3.21E-03	0.00E+00	2.19E-06	5.90E-08	7.80E-03	1.73E-05	2.42E-06
Future	MAX	Moose	dibenz(a,h)anthracene	2.62E-04	1.25E-01	8.75E-02	0.00E+00	5.98E-05	1.61E-06	2.13E-01	4.73E-04	6.59E-05
Baseline	MAX	Ruffed_Grouse	dibenz(a,h)anthracene	5.38E-06	6.18E-04	0.00E+00	2.42E-07	1.06E-07	6.38E-09	6.24E-04	8.89E-04	1.42E-07
Application	MAX	Ruffed_Grouse	dibenz(a,h)anthracene	5.39E-06	6.19E-04	0.00E+00	2.42E-07	1.06E-07	6.39E-09	6.25E-04	8.90E-04	1.43E-07
PDC	MAX	Ruffed_Grouse	dibenz(a,h)anthracene	1.12E-05	1.29E-03	0.00E+00	5.04E-07	2.21E-07	1.33E-08	1.30E-03	1.85E-03	2.97E-07
KNOC Alone	MAX	Ruffed_Grouse	dibenz(a,h)anthracene	2.14E-07	2.46E-05	0.00E+00	9.61E-09	4.22E-09	2.54E-10	2.48E-05	3.53E-05	5.66E-09
Future	MAX	Ruffed_Grouse	dibenz(a,h)anthracene	5.83E-06	6.70E-04	0.00E+00	2.62E-07	1.15E-07	6.92E-09	6.76E-04	9.63E-04	1.54E-07

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI	EDI	EDI	EDI	EDI	EDI	EDI	EDI	
				mg/day	mg/day	mg/day	mg/day	mg/day	mg/day	mg/kg-BW/day	mg/kg ww	
Baseline	MAX	Snowshoe_hare	dibenz(a,h)anthracene	3.80E-06	1.61E-03	0.00E+00	0.00E+00	3.06E-07	1.46E-08	1.62E-03	1.15E-03	5.01E-07
Application	MAX	Snowshoe_hare	dibenz(a,h)anthracene	3.81E-06	1.61E-03	0.00E+00	0.00E+00	3.06E-07	1.47E-08	1.62E-03	1.16E-03	5.01E-07
PDC	MAX	Snowshoe_hare	dibenz(a,h)anthracene	7.92E-06	3.36E-03	0.00E+00	0.00E+00	6.37E-07	3.05E-08	3.37E-03	2.41E-03	1.04E-06
KNOC Alone	MAX	Snowshoe_hare	dibenz(a,h)anthracene	1.51E-07	6.41E-05	0.00E+00	0.00E+00	1.22E-08	5.82E-10	6.43E-05	4.59E-05	1.99E-08
Future	MAX	Snowshoe_hare	dibenz(a,h)anthracene	4.12E-06	1.75E-03	0.00E+00	0.00E+00	3.31E-07	1.59E-08	1.75E-03	1.25E-03	5.43E-07
Baseline	MAX	Moose	fluoranthene	5.95E-05	1.23E-03	9.37E-01	0.00E+00	6.40E-04	1.72E-05	9.39E-01	2.09E-03	3.69E-04
Application	MAX	Moose	fluoranthene	3.06E-01	6.33E+00	4.82E+03	0.00E+00	3.29E+00	8.85E-02	4.83E+03	1.07E+01	1.90E+00
PDC	MAX	Moose	fluoranthene	3.06E-01	6.33E+00	4.82E+03	0.00E+00	3.29E+00	8.85E-02	4.83E+03	1.07E+01	1.90E+00
KNOC Alone	MAX	Moose	fluoranthene	3.06E-01	6.33E+00	4.82E+03	0.00E+00	3.29E+00	8.85E-02	4.83E+03	1.07E+01	1.90E+00
Future	MAX	Moose	fluoranthene	3.06E-01	6.33E+00	4.82E+03	0.00E+00	3.29E+00	8.85E-02	4.83E+03	1.07E+01	1.90E+00
Baseline	MAX	Ruffed_Grouse	fluoranthene	1.33E-06	6.60E-06	0.00E+00	5.96E-08	1.23E-06	7.40E-08	9.29E-06	1.32E-05	2.69E-09
Application	MAX	Ruffed_Grouse	fluoranthene	6.82E-03	3.40E-02	0.00E+00	3.07E-04	6.34E-03	3.81E-04	4.78E-02	6.81E-02	1.38E-05
PDC	MAX	Ruffed_Grouse	fluoranthene	6.82E-03	3.40E-02	0.00E+00	3.07E-04	6.34E-03	3.81E-04	4.78E-02	6.81E-02	1.38E-05
KNOC Alone	MAX	Ruffed_Grouse	fluoranthene	6.82E-03	3.40E-02	0.00E+00	3.07E-04	6.34E-03	3.81E-04	4.78E-02	6.81E-02	1.38E-05
Future	MAX	Ruffed_Grouse	fluoranthene	6.82E-03	3.40E-02	0.00E+00	3.07E-04	6.34E-03	3.81E-04	4.78E-02	6.81E-02	1.38E-05
Baseline	MAX	Snowshoe_hare	fluoranthene	9.37E-07	1.72E-05	0.00E+00	0.00E+00	3.55E-06	1.70E-07	2.19E-05	1.56E-05	8.58E-09
Application	MAX	Snowshoe_hare	fluoranthene	4.82E-03	8.85E-02	0.00E+00	0.00E+00	1.82E-02	8.74E-04	1.12E-01	8.03E-02	4.41E-05
PDC	MAX	Snowshoe_hare	fluoranthene	4.82E-03	8.85E-02	0.00E+00	0.00E+00	1.82E-02	8.74E-04	1.12E-01	8.03E-02	4.41E-05
KNOC Alone	MAX	Snowshoe_hare	fluoranthene	4.82E-03	8.85E-02	0.00E+00	0.00E+00	1.82E-02	8.74E-04	1.12E-01	8.03E-02	4.41E-05
Future	MAX	Snowshoe_hare	fluoranthene	4.82E-03	8.85E-02	0.00E+00	0.00E+00	1.82E-02	8.74E-04	1.12E-01	8.03E-02	4.41E-05
Baseline	MAX	Moose	fluorene	4.20E-06	7.19E-05	3.42E+00	0.00E+00	2.34E-03	6.28E-05	3.42E+00	7.61E-03	1.00E-03
Application	MAX	Moose	fluorene	8.55E-03	1.46E-01	6.96E+03	0.00E+00	4.76E+00	1.28E-01	6.97E+03	1.55E+01	2.04E+00
PDC	MAX	Moose	fluorene	8.55E-03	1.46E-01	6.96E+03	0.00E+00	4.76E+00	1.28E-01	6.97E+03	1.55E+01	2.04E+00
KNOC Alone	MAX	Moose	fluorene	8.55E-03	1.46E-01	6.96E+03	0.00E+00	4.76E+00	1.28E-01	6.97E+03	1.55E+01	2.04E+00
Future	MAX	Moose	fluorene	8.55E-03	1.46E-01	6.96E+03	0.00E+00	4.76E+00	1.28E-01	6.97E+03	1.55E+01	2.04E+00
Baseline	MAX	Ruffed_Grouse	fluorene	9.36E-08	3.86E-07	0.00E+00	4.21E-09	4.50E-06	2.70E-07	5.25E-06	7.48E-06	1.13E-09
Application	MAX	Ruffed_Grouse	fluorene	1.90E-04	7.85E-04	0.00E+00	8.56E-06	9.15E-03	5.50E-04	1.07E-02	1.52E-02	2.31E-06
PDC	MAX	Ruffed_Grouse	fluorene	1.90E-04	7.85E-04	0.00E+00	8.56E-06	9.15E-03	5.50E-04	1.07E-02	1.52E-02	2.31E-06
KNOC Alone	MAX	Ruffed_Grouse	fluorene	1.90E-04	7.85E-04	0.00E+00	8.56E-06	9.15E-03	5.50E-04	1.07E-02	1.52E-02	2.31E-06
Future	MAX	Ruffed_Grouse	fluorene	1.90E-04	7.85E-04	0.00E+00	8.56E-06	9.15E-03	5.50E-04	1.07E-02	1.52E-02	2.30E-06
Baseline	MAX	Snowshoe_hare	fluorene	6.61E-08	1.01E-06	0.00E+00	0.00E+00	1.30E-05	6.20E-07	1.46E-05	1.05E-05	4.29E-09
Application	MAX	Snowshoe_hare	fluorene	1.35E-04	2.05E-03	0.00E+00	0.00E+00	2.64E-02	1.26E-03	2.98E-02	2.13E-02	8.72E-06
PDC	MAX	Snowshoe_hare	fluorene	1.35E-04	2.05E-03	0.00E+00	0.00E+00	2.64E-02	1.26E-03	2.98E-02	2.13E-02	8.72E-06
KNOC Alone	MAX	Snowshoe_hare	fluorene	1.35E-04	2.05E-03	0.00E+00	0.00E+00	2.64E-02	1.26E-03	2.98E-02	2.13E-02	8.72E-06
Future	MAX	Snowshoe_hare	fluorene	1.35E-04	2.05E-03	0.00E+00	0.00E+00	2.64E-02	1.26E-03	2.98E-02	2.13E-02	8.72E-06
Baseline	MAX	Moose	formaldehyde	2.00E-09	5.26E-05	3.24E-04	0.00E+00	8.30E-03	3.14E-03	1.18E-02	2.63E-05	1.42E-06
Application	MAX	Moose	formaldehyde	2.00E-09	5.26E-05	3.24E-04	0.00E+00	8.30E-03	3.14E-03	1.18E-02	2.63E-05	1.42E-06
PDC	MAX	Moose	formaldehyde	4.04E-09	1.06E-04	6.51E-04	0.00E+00	1.67E-02	6.33E-03	2.38E-02	5.29E-05	2.87E-06

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/day	EDI mg/kg-BW/day	EDI mg/kg ww
KNOC Alone	MAX	Moose	formaldehyde	9.42E-14	2.47E-09	1.52E-08	0.00E+00	3.90E-07	1.48E-07	5.55E-07	1.23E-09	6.69E-11
Future	MAX	Moose	formaldehyde	2.03E-09	5.32E-05	3.28E-04	0.00E+00	8.41E-03	3.18E-03	1.20E-02	2.66E-05	1.44E-06
Baseline	MAX	Ruffed_Grouse	formaldehyde	4.47E-11	2.82E-07	0.00E+00	4.02E-12	1.60E-05	1.35E-05	2.98E-05	4.24E-05	2.65E-09
Application	MAX	Ruffed_Grouse	formaldehyde	4.47E-11	2.82E-07	0.00E+00	4.02E-12	1.60E-05	1.35E-05	2.98E-05	4.24E-05	2.65E-09
PDC	MAX	Ruffed_Grouse	formaldehyde	8.99E-11	5.68E-07	0.00E+00	8.08E-12	3.22E-05	2.72E-05	5.99E-05	8.54E-05	5.32E-09
KNOC Alone	MAX	Ruffed_Grouse	formaldehyde	2.10E-15	1.33E-11	0.00E+00	1.89E-16	7.51E-10	6.35E-10	1.40E-09	1.99E-09	1.24E-13
Future	MAX	Ruffed_Grouse	formaldehyde	4.52E-11	2.86E-07	0.00E+00	4.07E-12	1.62E-05	1.37E-05	3.02E-05	4.30E-05	2.68E-09
Baseline	MAX	Snowshoe_hare	formaldehyde	3.16E-11	7.36E-07	0.00E+00	0.00E+00	4.60E-05	3.10E-05	7.78E-05	5.55E-05	9.37E-09
Application	MAX	Snowshoe_hare	formaldehyde	3.16E-11	7.36E-07	0.00E+00	0.00E+00	4.60E-05	3.10E-05	7.78E-05	5.55E-05	9.37E-09
PDC	MAX	Snowshoe_hare	formaldehyde	6.36E-11	1.48E-06	0.00E+00	0.00E+00	9.26E-05	6.24E-05	1.57E-04	1.12E-04	1.89E-08
KNOC Alone	MAX	Snowshoe_hare	formaldehyde	1.48E-15	3.46E-11	0.00E+00	0.00E+00	2.16E-09	1.46E-09	3.65E-09	2.61E-09	4.40E-13
Future	MAX	Snowshoe_hare	formaldehyde	3.20E-11	7.45E-07	0.00E+00	0.00E+00	4.66E-05	3.14E-05	7.87E-05	5.62E-05	9.49E-09
Baseline	MAX	Moose	indeno(1,2,3-cd)pyrene	1.38E-04	5.85E-03	6.37E-02	0.00E+00	4.35E-05	1.17E-06	6.97E-02	1.55E-04	2.05E-05
Application	MAX	Moose	indeno(1,2,3-cd)pyrene	1.38E-04	5.87E-03	6.39E-02	0.00E+00	4.36E-05	1.17E-06	6.99E-02	1.55E-04	2.05E-05
PDC	MAX	Moose	indeno(1,2,3-cd)pyrene	2.87E-04	1.22E-02	1.33E-01	0.00E+00	9.07E-05	2.44E-06	1.45E-01	3.23E-04	4.27E-05
KNOC Alone	MAX	Moose	indeno(1,2,3-cd)pyrene	1.62E-05	6.89E-04	7.50E-03	0.00E+00	5.12E-06	1.38E-07	8.21E-03	1.82E-05	2.41E-06
Future	MAX	Moose	indeno(1,2,3-cd)pyrene	1.50E-04	6.35E-03	6.92E-02	0.00E+00	4.72E-05	1.27E-06	7.57E-02	1.68E-04	2.23E-05
Baseline	MAX	Ruffed_Grouse	indeno(1,2,3-cd)pyrene	3.07E-06	3.14E-05	0.00E+00	1.58E-07	8.37E-08	5.03E-09	3.47E-05	4.94E-05	7.52E-09
Application	MAX	Ruffed_Grouse	indeno(1,2,3-cd)pyrene	3.08E-06	3.15E-05	0.00E+00	1.58E-07	8.39E-08	5.05E-09	3.48E-05	4.96E-05	7.54E-09
PDC	MAX	Ruffed_Grouse	indeno(1,2,3-cd)pyrene	6.40E-06	6.55E-05	0.00E+00	3.29E-07	1.75E-07	1.05E-08	7.24E-05	1.03E-04	1.57E-08
KNOC Alone	MAX	Ruffed_Grouse	indeno(1,2,3-cd)pyrene	3.61E-07	3.70E-06	0.00E+00	1.86E-08	9.86E-09	5.92E-10	4.09E-06	5.82E-06	8.86E-10
Future	MAX	Ruffed_Grouse	indeno(1,2,3-cd)pyrene	3.33E-06	3.41E-05	0.00E+00	1.71E-07	9.09E-08	5.46E-09	3.77E-05	5.37E-05	8.17E-09
Baseline	MAX	Snowshoe_hare	indeno(1,2,3-cd)pyrene	2.17E-06	8.18E-05	0.00E+00	0.00E+00	2.41E-07	1.15E-08	8.43E-05	6.02E-05	2.48E-08
Application	MAX	Snowshoe_hare	indeno(1,2,3-cd)pyrene	2.17E-06	8.21E-05	0.00E+00	0.00E+00	2.42E-07	1.16E-08	8.45E-05	6.04E-05	2.48E-08
PDC	MAX	Snowshoe_hare	indeno(1,2,3-cd)pyrene	4.52E-06	1.71E-04	0.00E+00	0.00E+00	5.03E-07	2.41E-08	1.76E-04	1.26E-04	5.17E-08
KNOC Alone	MAX	Snowshoe_hare	indeno(1,2,3-cd)pyrene	2.55E-07	9.64E-06	0.00E+00	0.00E+00	2.84E-08	1.36E-09	9.93E-06	7.09E-06	2.92E-09
Future	MAX	Snowshoe_hare	indeno(1,2,3-cd)pyrene	2.36E-06	8.89E-05	0.00E+00	0.00E+00	2.62E-07	1.25E-08	9.16E-05	6.54E-05	2.69E-08
Baseline	MAX	Moose	naphthalene	4.90E-07	7.61E-06	2.00E-02	0.00E+00	5.82E-03	4.11E-04	2.62E-02	5.83E-05	3.89E-06
Application	MAX	Moose	naphthalene	4.90E-07	7.61E-06	2.00E-02	0.00E+00	5.82E-03	4.11E-04	2.62E-02	5.83E-05	3.89E-06
PDC	MAX	Moose	naphthalene	1.02E-06	1.58E-05	4.15E-02	0.00E+00	1.21E-02	8.54E-04	5.45E-02	1.21E-04	8.08E-06
KNOC Alone	MAX	Moose	naphthalene	4.13E-10	6.41E-09	1.68E-05	0.00E+00	4.90E-06	3.47E-07	2.21E-05	4.91E-08	3.28E-09
Future	MAX	Moose	naphthalene	5.27E-07	8.19E-06	2.15E-02	0.00E+00	6.26E-03	4.43E-04	2.82E-02	6.27E-05	4.19E-06
Baseline	MAX	Ruffed_Grouse	naphthalene	1.09E-08	4.08E-08	0.00E+00	4.91E-10	1.12E-05	1.77E-06	1.30E-05	1.85E-05	1.42E-09
Application	MAX	Ruffed_Grouse	naphthalene	1.09E-08	4.08E-08	0.00E+00	4.91E-10	1.12E-05	1.77E-06	1.30E-05	1.85E-05	1.42E-09
PDC	MAX	Ruffed_Grouse	naphthalene	2.27E-08	8.48E-08	0.00E+00	1.02E-09	2.32E-05	3.67E-06	2.70E-05	3.85E-05	2.96E-09
KNOC Alone	MAX	Ruffed_Grouse	naphthalene	9.20E-12	3.44E-11	0.00E+00	4.14E-13	9.44E-09	1.49E-09	1.10E-08	1.56E-08	1.20E-12
Future	MAX	Ruffed_Grouse	naphthalene	1.18E-08	4.40E-08	0.00E+00	5.28E-10	1.21E-05	1.90E-06	1.40E-05	2.00E-05	1.53E-09
Baseline	MAX	Snowshoe_hare	naphthalene	7.71E-09	1.06E-07	0.00E+00	0.00E+00	3.22E-05	4.06E-06	3.64E-05	2.60E-05	5.40E-09

Table J2-A-6 Summary of Predicted Exposures and Game Meat Concentrations

Scenario	Site	Receptor	Chemical	EDI								Game Meat Concentration
				Soil	Browse	Aquatic Plant	Invert	Water	Air	Total	Total	
				EDI	EDI	EDI	EDI	EDI	EDI	EDI	EDI	mg/kg-BW/day
Application	MAX	Snowshoe_hare	naphthalene	7.71E-09	1.07E-07	0.00E+00	0.00E+00	3.22E-05	4.06E-06	3.64E-05	2.60E-05	5.41E-09
PDC	MAX	Snowshoe_hare	naphthalene	1.60E-08	2.21E-07	0.00E+00	0.00E+00	6.69E-05	8.43E-06	7.56E-05	5.40E-05	1.12E-08
KNOC Alone	MAX	Snowshoe_hare	naphthalene	6.50E-12	8.98E-11	0.00E+00	0.00E+00	2.72E-08	3.42E-09	3.07E-08	2.19E-08	4.56E-12
Future	MAX	Snowshoe_hare	naphthalene	8.30E-09	1.15E-07	0.00E+00	0.00E+00	3.47E-05	4.37E-06	3.92E-05	2.80E-05	5.82E-09
Baseline	MAX	Moose	phenanthrene	8.89E-05	1.45E-03	8.56E+00	0.00E+00	5.85E-03	1.25E-04	8.57E+00	1.90E-02	2.90E-03
Application	MAX	Moose	phenanthrene	8.89E-05	1.45E-03	8.56E+00	0.00E+00	5.85E-03	1.25E-04	8.57E+00	1.90E-02	2.90E-03
PDC	MAX	Moose	phenanthrene	1.85E-04	3.02E-03	1.59E+01	0.00E+00	1.09E-02	2.60E-04	1.59E+01	3.54E-02	5.39E-03
KNOC Alone	MAX	Moose	phenanthrene	5.96E-07	9.72E-06	4.55E-02	0.00E+00	3.11E-05	8.36E-07	4.56E-02	1.01E-04	1.54E-05
Future	MAX	Moose	phenanthrene	9.64E-05	1.57E-03	7.36E+00	0.00E+00	5.03E-03	1.35E-04	7.37E+00	1.64E-02	2.49E-03
Baseline	MAX	Ruffed_Grouse	phenanthrene	1.98E-06	7.79E-06	0.00E+00	8.90E-08	1.13E-05	5.36E-07	2.16E-05	3.08E-05	5.39E-09
Application	MAX	Ruffed_Grouse	phenanthrene	1.98E-06	7.79E-06	0.00E+00	8.90E-08	1.13E-05	5.36E-07	2.16E-05	3.08E-05	5.39E-09
PDC	MAX	Ruffed_Grouse	phenanthrene	4.13E-06	1.62E-05	0.00E+00	1.86E-07	2.09E-05	1.12E-06	4.26E-05	6.07E-05	1.06E-08
KNOC Alone	MAX	Ruffed_Grouse	phenanthrene	1.33E-08	5.22E-08	0.00E+00	5.97E-10	5.98E-08	3.60E-09	1.29E-07	1.84E-07	3.23E-11
Future	MAX	Ruffed_Grouse	phenanthrene	2.15E-06	8.44E-06	0.00E+00	9.65E-08	9.68E-06	5.81E-07	2.09E-05	2.98E-05	5.22E-09
Baseline	MAX	Snowshoe_hare	phenanthrene	1.40E-06	2.03E-05	0.00E+00	0.00E+00	3.24E-05	1.23E-06	5.53E-05	3.95E-05	1.87E-08
Application	MAX	Snowshoe_hare	phenanthrene	1.40E-06	2.03E-05	0.00E+00	0.00E+00	3.24E-05	1.23E-06	5.53E-05	3.95E-05	1.87E-08
PDC	MAX	Snowshoe_hare	phenanthrene	2.92E-06	4.23E-05	0.00E+00	0.00E+00	6.03E-05	2.56E-06	1.08E-04	7.72E-05	3.65E-08
KNOC Alone	MAX	Snowshoe_hare	phenanthrene	9.38E-09	1.36E-07	0.00E+00	0.00E+00	1.72E-07	8.25E-09	3.26E-07	2.33E-07	1.10E-10
Future	MAX	Snowshoe_hare	phenanthrene	1.52E-06	2.20E-05	0.00E+00	0.00E+00	2.79E-05	1.33E-06	5.27E-05	3.77E-05	1.78E-08
Baseline	MAX	Moose	pyrene	6.30E-04	9.89E-04	1.41E+00	0.00E+00	9.64E-04	1.29E-05	1.41E+00	3.14E-03	5.44E-04
Application	MAX	Moose	pyrene	6.30E-04	9.90E-04	1.41E+00	0.00E+00	9.65E-04	1.29E-05	1.41E+00	3.14E-03	5.44E-04
PDC	MAX	Moose	pyrene	1.31E-03	2.06E-03	2.17E+00	0.00E+00	1.49E-03	2.69E-05	2.18E+00	4.84E-03	8.38E-04
KNOC Alone	MAX	Moose	pyrene	1.20E-05	1.88E-05	1.34E-02	0.00E+00	9.15E-06	2.46E-07	1.34E-02	2.99E-05	5.17E-06
Future	MAX	Moose	pyrene	6.82E-04	1.07E-03	7.62E-01	0.00E+00	5.21E-04	1.40E-05	7.65E-01	1.70E-03	2.94E-04
Baseline	MAX	Ruffed_Grouse	pyrene	1.40E-05	5.31E-06	0.00E+00	6.31E-07	1.86E-06	5.56E-08	2.19E-05	3.12E-05	6.20E-09
Application	MAX	Ruffed_Grouse	pyrene	1.40E-05	5.31E-06	0.00E+00	6.31E-07	1.86E-06	5.56E-08	2.19E-05	3.12E-05	6.20E-09
PDC	MAX	Ruffed_Grouse	pyrene	2.92E-05	1.11E-05	0.00E+00	1.31E-06	2.86E-06	1.16E-07	4.46E-05	6.35E-05	1.26E-08
KNOC Alone	MAX	Ruffed_Grouse	pyrene	2.67E-07	1.01E-07	0.00E+00	1.20E-08	1.76E-08	1.06E-09	3.99E-07	5.68E-07	1.13E-10
Future	MAX	Ruffed_Grouse	pyrene	1.52E-05	5.75E-06	0.00E+00	6.83E-07	1.00E-06	6.02E-08	2.27E-05	3.23E-05	6.43E-09
Baseline	MAX	Snowshoe_hare	pyrene	9.92E-06	1.38E-05	0.00E+00	0.00E+00	5.34E-06	1.28E-07	2.92E-05	2.09E-05	1.12E-08
Application	MAX	Snowshoe_hare	pyrene	9.92E-06	1.39E-05	0.00E+00	0.00E+00	5.35E-06	1.28E-07	2.92E-05	2.09E-05	1.12E-08
PDC	MAX	Snowshoe_hare	pyrene	2.07E-05	2.88E-05	0.00E+00	0.00E+00	8.23E-06	2.66E-07	5.80E-05	4.14E-05	2.23E-08
KNOC Alone	MAX	Snowshoe_hare	pyrene	1.89E-07	2.64E-07	0.00E+00	0.00E+00	5.07E-08	2.43E-09	5.05E-07	3.61E-07	1.94E-10
Future	MAX	Snowshoe_hare	pyrene	1.07E-05	1.50E-05	0.00E+00	0.00E+00	2.89E-06	1.38E-07	2.88E-05	2.05E-05	1.11E-08

Table J2-A-7 Summary of Media Concentrations

Scenario	Site	Chemical	Variable	Environmental Concentrations											
				Soil	Surface Soil	Surface Water	Air	Dust	Deposition Predicted	Browse	Browse	Browse	Browse	Aquatic Plant	Invert
				mg/kg	mg/kg	mg/L	ug/m3	ug/m3	mg/m2/yr	mg/kg dw	Air	Soil	Total	Aquatic	Soil
Baseline	MAX	2-methylnaphthalene	Baseline_MAX_2-methylnaphthalene	1.36E-09	1.36E-08	5.34E-08	1.17E-05	1.03E-14	4.74E-03	0.00E+00	8.83E-09	2.53E-10	9.08E-09	8.19E-04	5.69E-10
Application	MAX	2-methylnaphthalene	Application_MAX_2-methylnaphthalene	2.14E-09	2.14E-08	8.41E-08	1.84E-05	1.63E-14	7.48E-03	0.00E+00	1.39E-08	3.99E-10	1.43E-08	1.29E-03	8.98E-10
PDC	MAX	2-methylnaphthalene	PDC_MAX_2-methylnaphthalene	2.15E-09	2.15E-08	8.43E-08	1.84E-05	1.63E-14	7.49E-03	0.00E+00	1.40E-08	4.00E-10	1.44E-08	1.30E-03	9.00E-10
KNOC Alone	MAX	2-methylnaphthalene	KNOC Alone_MAX_2-methylnaphthalene	1.90E-09	1.90E-08	7.46E-08	1.63E-05	1.44E-14	6.63E-03	0.00E+00	1.24E-08	3.54E-10	1.27E-08	1.15E-03	7.96E-10
Future	MAX	2-methylnaphthalene	Future_MAX_2-methylnaphthalene	1.20E-09	1.20E-08	4.73E-08	1.03E-05	9.14E-15	4.20E-03	0.00E+00	7.82E-09	2.24E-10	8.05E-09	7.26E-04	5.04E-10
Baseline	MAX	3-methylcholanthrene	Baseline_MAX_3-methylcholanthrene	6.46E-06	6.46E-05	9.73E-08	8.74E-07	4.91E-11	3.55E-04	1.13E-06	3.62E-06	2.37E-08	4.77E-06	1.49E-03	2.71E-06
Application	MAX	3-methylcholanthrene	Application_MAX_3-methylcholanthrene	1.02E-05	1.02E-04	1.53E-07	1.38E-06	7.75E-11	5.60E-04	1.78E-06	5.70E-06	3.74E-08	7.52E-06	2.36E-03	4.27E-06
PDC	MAX	3-methylcholanthrene	PDC_MAX_3-methylcholanthrene	1.02E-05	1.02E-04	1.54E-07	1.38E-06	7.77E-11	5.62E-04	1.78E-06	5.72E-06	3.75E-08	7.54E-06	2.36E-03	4.28E-06
KNOC Alone	MAX	3-methylcholanthrene	KNOC Alone_MAX_3-methylcholanthrene	9.04E-06	9.04E-05	1.36E-07	1.22E-06	6.87E-11	4.97E-04	1.57E-06	5.06E-06	3.32E-08	6.97E-06	2.09E-03	3.79E-06
Future	MAX	3-methylcholanthrene	Future_MAX_3-methylcholanthrene	5.73E-06	5.73E-05	8.63E-08	7.75E-07	4.36E-11	3.15E-04	9.99E-07	3.21E-06	2.11E-08	4.23E-06	1.33E-03	2.40E-06
Baseline	MAX	7,12-dimethylbenz(a)anthracene	Baseline_MAX_7,12-dimethylbenz(a)anthracene	2.62E-05	2.62E-04	8.65E-07	7.77E-06	1.99E-10	3.16E-03	1.52E-04	1.08E-04	2.25E-07	2.61E-04	1.33E-02	1.10E-05
Application	MAX	7,12-dimethylbenz(a)anthracene	Application_MAX_7,12-dimethylbenz(a)anthracene	4.13E-05	4.13E-04	1.36E-06	1.23E-05	3.14E-10	4.98E-03	2.40E-04	1.71E-04	3.55E-07	4.11E-04	2.09E-02	1.73E-05
PDC	MAX	7,12-dimethylbenz(a)anthracene	PDC_MAX_7,12-dimethylbenz(a)anthracene	4.14E-05	4.14E-04	1.37E-06	1.23E-05	3.14E-10	5.00E-03	2.41E-04	1.71E-04	3.56E-07	4.12E-04	2.10E-02	1.73E-05
KNOC Alone	MAX	7,12-dimethylbenz(a)anthracene	KNOC Alone_MAX_7,12-dimethylbenz(a)anthracene	3.66E-05	3.66E-04	1.21E-06	1.09E-05	2.78E-10	4.42E-03	2.13E-04	1.52E-04	3.15E-07	3.65E-04	1.86E-02	1.54E-05
Future	MAX	7,12-dimethylbenz(a)anthracene	Future_MAX_7,12-dimethylbenz(a)anthracene	2.32E-05	2.32E-04	7.68E-07	6.90E-06	1.76E-10	2.80E-03	1.35E-04	9.61E-05	2.00E-07	2.31E-04	1.18E-02	9.73E-06
Baseline	MAX	acenaphthene	Baseline_MAX_acenaphthene	9.99E-08	9.99E-07	2.05E-06	1.68E-04	7.59E-13	6.81E-02	0.00E+00	2.72E-07	2.16E-08	2.93E-07	3.15E-02	4.19E-08
Application	MAX	acenaphthene	Application_MAX_acenaphthene	9.99E-08	9.99E-07	2.05E-06	1.68E-04	7.60E-13	6.81E-02	0.00E+00	2.72E-07	2.16E-08	2.93E-07	3.15E-02	4.19E-08
PDC	MAX	acenaphthene	PDC_MAX_acenaphthene	2.08E-07	2.08E-06	4.27E-06	3.49E-04	1.58E-12	1.42E-01	0.00E+00	5.66E-07	4.49E-08	6.11E-07	6.56E-02	8.73E-08
KNOC Alone	MAX	acenaphthene	KNOC Alone_MAX_acenaphthene	7.29E-10	7.29E-09	1.50E-08	1.22E-06	5.54E-15	4.97E-04	0.00E+00	1.98E-09	1.57E-10	2.14E-09	2.30E-04	3.06E-10
Future	MAX	acenaphthene	Future_MAX_acenaphthene	1.08E-07	1.08E-06	2.22E-06	1.81E-04	8.23E-13	7.38E-02	0.00E+00	2.94E-07	2.33E-08	3.18E-07	3.41E-02	4.54E-08
Baseline	MAX	acenaphthylene	Baseline_MAX_acenaphthylene	7.13E-08	7.13E-07	3.68E-05	3.78E-04	5.42E-13	1.54E-01	0.00E+00	2.41E-07	1.46E-08	2.56E-07	5.65E-01	2.99E-08
Application	MAX	acenaphthylene	Application_MAX_acenaphthylene	7.13E-08	7.13E-07	3.68E-05	3.78E-04	5.42E-13	1.54E-01	0.00E+00	2.41E-07	1.46E-08	2.56E-07	5.65E-01	2.99E-08
PDC	MAX	acenaphthylene	PDC_MAX_acenaphthylene	1.49E-07	1.49E-06	7.66E-05	7.87E-04	1.13E-12	3.20E-01	0.00E+00	5.03E-07	3.04E-08	5.34E-07	1.18E+00	6.23E-08
KNOC Alone	MAX	acenaphthylene	KNOC Alone_MAX_acenaphthylene	2.31E-10	2.31E-09	1.19E-07	1.22E-06	1.75E-15	4.97E-04	0.00E+00	7.81E-10	4.72E-11	8.29E-10	1.83E-03	9.68E-11
Future	MAX	acenaphthylene	Future_MAX_acenaphthylene	7.73E-08	7.73E-07	3.99E-05	4.09E-04	5.87E-13	1.66E-01	0.00E+00	2.62E-07	1.58E-08	2.77E-07	6.12E-01	3.24E-08
Baseline	MAX	anthracene	Baseline_MAX_anthracene	2.26E-06	2.26E-05	3.06E-06	7.22E-05	1.72E-11	2.94E-02	5.47E-06	1.25E-06	2.19E-07	6.94E-06	4.69E-02	9.47E-07
Application	MAX	anthracene	Application_MAX_anthracene	2.26E-06	2.26E-05	3.06E-06	7.22E-05	1.72E-11	2.94E-02	5.47E-06	1.25E-06	2.19E-07	6.95E-06	4.69E-02	9.48E-07
PDC	MAX	anthracene	PDC_MAX_anthracene	4.73E-06	4.73E-05	6.39E-06	1.51E-04	3.59E-11	6.14E-02	1.14E-05	2.62E-06	4.59E-07	1.45E-05	9.81E-02	1.98E-06
KNOC Alone	MAX	anthracene	KNOC Alone_MAX_anthracene	5.10E-08	5.10E-07	6.90E-08	1.63E-06	3.88E-13	6.63E-04	1.24E-07	2.83E-08	4.95E-09	1.57E-07	1.06E-03	2.14E-08
Future	MAX	anthracene	Future_MAX_anthracene	2.47E-06	2.47E-05	3.34E-06	7.88E-05	1.87E-11	3.20E-02	5.97E-06	1.37E-06	2.39E-07	7.58E-06	5.12E-02	1.03E-06
Baseline	MAX	benz(a)anthracene	Baseline_MAX_benz(a)anthracene	6.36E-05	6.36E-04	2.47E-05	4.20E-05	4.84E-10	1.71E-02	8.23E-04	1.28E-04	1.25E-06	9.52E-04	3.79E-01	1.14E-05
Application	MAX	benz(a)anthracene	Application_MAX_benz(a)anthracene	6.37E-05	6.37E-04	2.47E-05	4.20E-05	4.84E-10	1.71E-02	8.24E-04	1.28E-04	1.25E-06	9.53E-04	3.79E-01	1.14E-05
PDC	MAX	benz(a)anthracene	PDC_MAX_benz(a)anthracene	1.33E-04	1.33E-03	2.97E-05	8.75E-05	1.01E-09	3.56E-02	1.71E-03	2.67E-04	2.61E-06	1.98E-03	4.57E-01	2.38E-05
KNOC Alone	MAX	benz(a)anthracene	KNOC Alone_MAX_benz(a)anthracene	1.85E-06	1.85E-05	1.36E-07	1.22E-06	1.41E-11	4.97E-04	2.39E-05	3.72E-06	3.64E-08	2.77E-05	2.09E-03	3.33E-07
Future	MAX	benz(a)anthracene	Future_MAX_benz(a)anthracene	6.89E-05	6.89E-04	5.06E-06	4.55E-05	5.24E-10	1.85E-02	8.91E-04	1.39E-04	1.35E-06	1.03E-03	7.77E-02	1.24E-05
Baseline	MAX	benzo(a)pyrene	Baseline_MAX_benzo(a)pyrene	2.37E-05	2.37E-04	1.10E-05	9.39E-06	1.80E-10	3.82E-03	2.51E-04	1.12E-04	3.13E-07	3.64E-04	1.70E-01	9.94E-06
Application	MAX	benzo(a)pyrene	Application_MAX_benzo(a)pyrene	2.38E-05	2.38E-04	1.10E-05	9.41E-06	1.81E-10	3.83E-03	2.52E-04	1.13E-04	3.13E-07	3.65E-04	1.70E-01	9.96E-06
PDC	MAX	benzo(a)pyrene	PDC_MAX_benzo(a)pyrene	4.95E-05	4.95E-04	1.22E-05	1.96E-05	3.76E-10	7.97E-03	5.24E-04	2.34E-04	6.52E-07	7.59E-04	1.87E-01	2.07E-05
KNOC Alone	MAX	benzo(a)pyrene	KNOC Alone_MAX_benzo(a)pyrene	2.06E-06	2.06E-05	9.07E-08	8.15E-07	1.56E-11	3.31E-04	2.18E-05	9.75E-06	2.71E-08	3.16E-05	1.39E-03	8.62E-07
Future	MAX	benzo(a)pyrene	Future_MAX_benzo(a)pyrene	2.58E-05	2.58E-04	1.14E-06	1.02E-05	1.96E-10	4.15E-03	2.73E-04	1.22E-04	3.40E-07	3.96E-04	1.74E-02	1.08E-05
Baseline	MAX	benzo(b)fluoranthene	Baseline_MAX_benzo(b)fluoranthene	9.22E-06	9.22E-05	4.17E-06	3.75E-05	7.01E-11	1.52E-02	4.83E-05	1.88E-05	1.06E-07	6.72E-05	6.40E-02	3.87E-06
Application	MAX	benzo(b)fluoranthene	Application_MAX_benzo(b)fluoranthene	9.23E-06	9.23E-05	4.17E-06	3.75E-05	7.01E-11	1.52E-02	4.83E-05	1.88E-05	1.06E-07	6.72E-05	6.41E-02	3.87E-06
PDC	MAX	benzo(b)fluoranthene	PDC_MAX_benzo(b)fluoranthene	1.92E-05	1.92E-04	8.68E-06	7.80E-05	1.46E-10	3.17E-02	1.00E-04	3.92E-05	2.22E-07	1.40E-04	1.33E-01	8.05E-06
KNOC Alone	MAX	benzo(b)fluoranthene	KNOC Alone_MAX_benzo(b)fluoranthene	3.01E-07	3.01E-06	1.36E-07	1.22E-06	2.29E-12	4.97E-04	1.57E-06	6.14E-07	3.47E-09	2.19E-06	2.09E-03	1.26E-07
Future	MAX	benzo(b)fluoranthene	Future_MAX_benzo(b)fluoranthene	9.98E-06	9.98E-05	4.51E-06	4.05E-05	7.58E-11	1.65E-02	5.22E-05	2.04E-05	1.15E-07	7.27E-05	6.93E-02	4.18E-06
Baseline	MAX	benzo(g,h,i)perylene	Baseline_MAX_benzo(g,h,i)perylene	6.75E-05	6.75E-04	2.37E-06	2.13E-05	5.13E-10	8.66E-03	7.63E-04	3.50E-04	2.29E-07	1.11E-03	3.64E-02	2.83E-05
Application	MAX	benzo(g,h,i)perylene	Application_MAX_benzo(g,h,i)perylene	6.75E-05	6.75E-04	2.37E-06	2.13E-05	5.13E-10	8.67E-03	7.63E-04	3.51E-04	2.29E-07	1.11E-03	3.64E-02	2.83E-05
PDC	MAX	benzo(g,h,i)perylene	PDC_MAX_benzo(g,h,i)perylene	1.41E-04	1.41E-03	4.94E-06	4.44E-05	1.07E-09	1.81E-02	1.59E-03	7.31E-04	4.77E-07	2.32E-03	7.59E-02	5.90E-05
KNOC Alone	MAX	benzo(g,h,i)perylene	KNOC Alone_MAX_benzo(g,h,i)perylene	2.58E-06	2.58E-05	9.07E-08	8.15E-07	1.96E-11	3.31E-04	2.92E-05	1.34E-05	8.75E-09	4.26E-05	1.39E-03	1.08E-06
Future	MAX	benzo(g,h,i)perylene	Future_MAX_benzo(g,h,i)perylene	7.32E-05	7.32E-04	2.57E-06	2.31E-05	5.56E-10	9.39E-03	8.27E-04	3.80E-04	2.48E-07	1.21E-03	3.95E-02	3.07E-05

Table J2-A-7 Summary of Media Concentrations

Scenario	Site	Chemical	Variable	Environmental Concentrations											
				Soil	Surface Soil	Surface Water	Air	Dust	Deposition Predicted	Browse	Browse	Browse	Browse	Aquatic Plant	Invert
				mg/kg	mg/kg	mg/L	ug/m3	ug/m3	mg/m2/yr	mg/kg dw	mg/kg dw	mg/kg dw	Total	Aquatic	Soil
Baseline	MAX	benzo(k)fluoranthene	Baseline_MAX_benzo(k)fluoranthene	6.99E-05	6.99E-04	3.22E-07	8.28E-06	5.32E-10	3.36E-03	2.28E-04	1.56E-04	8.07E-07	3.84E-04	4.95E-03	3.35E-05
Application	MAX	benzo(k)fluoranthene	Application_MAX_benzo(k)fluoranthene	7.02E-05	7.02E-04	3.23E-07	8.31E-06	5.34E-10	3.38E-03	2.29E-04	1.56E-04	8.10E-07	3.86E-04	4.97E-03	3.37E-05
PDC	MAX	benzo(k)fluoranthene	PDC_MAX_benzo(k)fluoranthene	1.45E-04	1.45E-03	6.70E-07	1.72E-05	1.10E-09	6.99E-03	4.74E-04	3.24E-04	1.68E-06	7.99E-04	1.03E-02	6.97E-05
KNOC Alone	MAX	benzo(k)fluoranthene	KNOC Alone_MAX_benzo(k)fluoranthene	1.03E-05	1.03E-04	4.76E-08	1.22E-06	7.85E-11	4.97E-04	3.37E-05	2.30E-05	1.19E-07	5.68E-05	7.31E-04	4.95E-06
Future	MAX	benzo(k)fluoranthene	Future_MAX_benzo(k)fluoranthene	7.54E-05	7.54E-04	3.47E-07	8.92E-06	5.73E-10	3.63E-03	2.46E-04	1.68E-04	8.71E-07	4.15E-04	5.33E-03	3.62E-05
Baseline	MAX	chrysene	Baseline_MAX_chrysene	2.12E-04	2.12E-03	5.04E-06	4.53E-05	1.61E-09	1.84E-02	4.39E-04	7.61E-06	4.17E-06	4.51E-04	7.74E-02	5.08E-05
Application	MAX	chrysene	Application_MAX_chrysene	2.12E-04	2.12E-03	5.04E-06	4.53E-05	1.61E-09	1.84E-02	4.40E-04	7.61E-06	4.17E-06	4.51E-04	7.74E-02	5.09E-05
PDC	MAX	chrysene	PDC_MAX_chrysene	4.42E-04	4.42E-03	1.05E-05	9.44E-05	3.36E-09	3.84E-02	9.16E-04	1.59E-05	8.69E-06	9.40E-04	1.61E-01	1.06E-04
KNOC Alone	MAX	chrysene	KNOC Alone_MAX_chrysene	5.73E-06	5.73E-05	1.36E-07	1.22E-06	4.35E-11	4.97E-04	1.19E-05	2.39E-07	1.13E-07	2.54E-05	2.09E-03	1.37E-06
Future	MAX	chrysene	Future_MAX_chrysene	2.30E-04	2.30E-03	5.47E-06	4.91E-05	1.75E-09	2.00E-02	4.77E-04	8.25E-06	4.52E-06	4.89E-04	8.39E-02	5.51E-05
Baseline	MAX	dibenz(a,h)anthracene	Baseline_MAX_dibenz(a,h)anthracene	1.03E-04	1.03E-03	2.28E-06	2.05E-05	7.81E-10	8.33E-03	7.34E-04	1.15E-02	6.96E-07	1.22E-02	3.50E-02	4.31E-05
Application	MAX	dibenz(a,h)anthracene	Application_MAX_dibenz(a,h)anthracene	1.03E-04	1.03E-03	2.28E-06	2.05E-05	7.81E-10	8.34E-03	7.35E-04	1.15E-02	6.97E-07	1.22E-02	3.51E-02	4.31E-05
PDC	MAX	dibenz(a,h)anthracene	PDC_MAX_dibenz(a,h)anthracene	2.14E-04	2.14E-03	4.75E-06	4.27E-05	1.63E-09	1.74E-02	1.53E-04	2.39E-02	1.45E-06	2.54E-02	7.30E-02	8.97E-05
KNOC Alone	MAX	dibenz(a,h)anthracene	KNOC Alone_MAX_dibenz(a,h)anthracene	4.08E-06	4.08E-05	9.07E-08	8.15E-07	3.10E-11	3.31E-04	2.92E-05	4.56E-04	2.77E-08	4.85E-04	1.39E-03	1.71E-06
Future	MAX	dibenz(a,h)anthracene	Future_MAX_dibenz(a,h)anthracene	1.11E-04	1.11E-03	2.47E-06	2.22E-05	8.46E-10	9.03E-03	7.95E-04	1.24E-02	7.54E-07	1.32E-02	3.80E-02	4.67E-05
Baseline	MAX	fluoranthene	Baseline_MAX_fluoranthene	2.53E-05	2.53E-04	2.65E-05	2.38E-04	1.92E-10	9.67E-02	7.21E-05	5.69E-05	1.26E-06	1.30E-04	4.06E-01	1.06E-05
Application	MAX	fluoranthene	Application_MAX_fluoranthene	1.30E-01	1.30E+00	1.36E-01	1.22E+00	9.90E-07	4.97E+02	3.71E-01	2.92E-01	6.50E-03	6.70E-01	2.09E+03	5.46E-02
PDC	MAX	fluoranthene	PDC_MAX_fluoranthene	1.30E-01	1.30E+00	1.36E-01	1.22E+00	9.90E-07	4.97E+02	3.71E-01	2.92E-01	6.50E-03	6.70E-01	2.09E+03	5.46E-02
KNOC Alone	MAX	fluoranthene	KNOC Alone_MAX_fluoranthene	1.30E-01	1.30E+00	1.36E-01	1.22E+00	9.90E-07	4.97E+02	3.71E-01	2.92E-01	6.50E-03	6.70E-01	2.09E+03	5.46E-02
Future	MAX	fluoranthene	Future_MAX_fluoranthene	1.30E-01	1.30E+00	1.36E-01	1.22E+00	9.90E-07	4.97E+02	3.71E-01	2.92E-01	6.50E-03	6.70E-01	2.09E+03	5.46E-02
Baseline	MAX	fluorene	Baseline_MAX_fluorene	1.79E-06	1.79E-05	9.66E-05	8.68E-04	1.36E-11	3.53E-01	0.00E+00	7.35E-06	2.59E-07	7.61E-06	1.48E+00	7.49E-07
Application	MAX	fluorene	Application_MAX_fluorene	3.64E-03	3.64E-02	1.97E-01	1.77E+00	2.76E-08	7.18E+02	0.00E+00	1.50E-02	5.26E-04	1.55E-02	3.02E+03	1.52E-03
PDC	MAX	fluorene	PDC_MAX_fluorene	3.64E-03	3.64E-02	1.97E-01	1.77E+00	2.76E-08	7.18E+02	0.00E+00	1.50E-02	5.26E-04	1.55E-02	3.02E+03	1.52E-03
KNOC Alone	MAX	fluorene	KNOC Alone_MAX_fluorene	3.64E-03	3.64E-02	1.97E-01	1.77E+00	2.76E-08	7.18E+02	0.00E+00	1.50E-02	5.26E-04	1.55E-02	3.02E+03	1.52E-03
Future	MAX	fluorene	Future_MAX_fluorene	3.64E-03	3.64E-02	1.97E-01	1.77E+00	2.76E-08	7.18E+02	0.00E+00	1.50E-02	5.26E-04	1.55E-02	3.02E+03	1.52E-03
Baseline	MAX	formaldehyde	Baseline_MAX_formaldehyde	8.53E-10	8.53E-09	3.43E-04	4.34E-02	6.48E-15	1.77E+01	0.00E+00	5.56E-06	7.19E-09	5.57E-06	1.40E-04	7.15E-10
Application	MAX	formaldehyde	Application_MAX_formaldehyde	8.53E-10	8.53E-09	3.43E-04	4.34E-02	6.48E-15	1.77E+01	0.00E+00	5.56E-06	7.19E-09	5.57E-06	1.40E-04	7.15E-10
PDC	MAX	formaldehyde	PDC_MAX_formaldehyde	1.72E-09	1.72E-08	6.91E-04	8.74E-02	1.30E-14	3.55E+01	0.00E+00	1.12E-05	1.45E-08	1.12E-05	2.82E-04	1.44E-09
KNOC Alone	MAX	formaldehyde	KNOC Alone_MAX_formaldehyde	4.01E-14	4.01E-13	1.61E-08	2.04E-06	3.05E-19	8.29E-04	0.00E+00	2.61E-10	3.38E-13	2.61E-10	6.59E-09	3.36E-14
Future	MAX	formaldehyde	Future_MAX_formaldehyde	8.64E-10	8.64E-09	3.48E-04	4.40E-02	6.57E-15	1.79E+01	0.00E+00	5.63E-06	7.28E-09	5.64E-06	1.42E-04	7.24E-10
Baseline	MAX	indeno(1,2,3-cd)pyrene	Baseline_MAX_indeno(1,2,3-cd)pyrene	5.86E-05	5.86E-04	1.80E-06	1.62E-05	4.45E-10	6.57E-03	6.09E-04	9.84E-06	3.47E-07	6.19E-04	2.76E-02	2.81E-05
Application	MAX	indeno(1,2,3-cd)pyrene	Application_MAX_indeno(1,2,3-cd)pyrene	5.87E-05	5.87E-04	1.80E-06	1.62E-05	4.46E-10	6.59E-03	6.11E-04	9.87E-06	3.49E-07	6.21E-04	2.77E-02	2.82E-05
PDC	MAX	indeno(1,2,3-cd)pyrene	PDC_MAX_indeno(1,2,3-cd)pyrene	1.22E-04	1.22E-03	3.75E-06	3.37E-05	9.29E-10	1.37E-02	1.27E-03	2.05E-05	3.37E-07	7.25E-03	5.76E-02	5.86E-05
KNOC Alone	MAX	indeno(1,2,3-cd)pyrene	KNOC Alone_MAX_indeno(1,2,3-cd)pyrene	6.90E-06	6.90E-05	2.12E-07	1.90E-06	5.24E-11	7.74E-04	7.17E-05	1.16E-06	4.09E-08	7.29E-05	3.25E-03	3.31E-06
Future	MAX	indeno(1,2,3-cd)pyrene	Future_MAX_indeno(1,2,3-cd)pyrene	6.36E-05	6.36E-04	1.95E-06	1.75E-05	4.84E-10	7.13E-03	6.62E-04	1.07E-05	3.77E-07	6.73E-04	3.00E-02	3.05E-05
Baseline	MAX	naphthalene	Baseline_MAX_naphthalene	2.08E-07	2.08E-06	2.40E-04	5.68E-03	1.58E-12	2.31E+00	0.00E+00	7.06E-07	9.99E-08	8.06E-07	8.67E-03	8.74E-08
Application	MAX	naphthalene	Application_MAX_naphthalene	2.08E-07	2.08E-06	2.41E-04	5.68E-03	1.58E-12	2.31E+00	0.00E+00	7.06E-07	9.99E-08	8.06E-07	8.67E-03	8.74E-08
PDC	MAX	naphthalene	PDC_MAX_naphthalene	4.33E-07	4.33E-06	4.99E-04	1.18E-02	3.29E-12	4.80E+00	0.00E+00	1.47E-06	2.07E-07	1.67E-06	1.80E-02	1.81E-07
KNOC Alone	MAX	naphthalene	KNOC Alone_MAX_naphthalene	1.76E-10	1.76E-09	2.03E-07	4.79E-06	1.34E-15	1.95E-03	0.00E+00	5.95E-10	8.42E-11	6.79E-10	7.31E-06	7.37E-11
Future	MAX	naphthalene	Future_MAX_naphthalene	2.24E-07	2.24E-06	2.59E-04	6.12E-03	1.71E-12	2.49E+00	0.00E+00	7.60E-07	1.08E-07	8.67E-07	9.33E-03	9.41E-08
Baseline	MAX	phenanthrene	Baseline_MAX_phenanthrene	3.78E-05	3.78E-04	2.42E-04	1.72E-03	2.87E-10	7.00E-01	6.53E-05	8.46E-05	3.67E-06	1.54E-04	3.71E+00	1.59E-05
Application	MAX	phenanthrene	Application_MAX_phenanthrene	3.78E-05	3.78E-04	2.42E-04	1.72E-03	2.88E-10	7.00E-01	6.53E-05	8.46E-05	3.67E-06	1.54E-04	3.71E+00	1.59E-05
PDC	MAX	phenanthrene	PDC_MAX_phenanthrene	7.88E-05	7.88E-04	4.50E-04	3.59E-03	5.99E-10	1.46E+00	1.36E-04	1.76E-04	7.65E-06	3.20E-04	6.90E+00	3.31E-05
KNOC Alone	MAX	phenanthrene	KNOC Alone_MAX_phenanthrene	2.54E-07	2.54E-06	1.29E-06	1.15E-05	1.93E-12	4.69E-03	4.38E-07	5.67E-07	2.46E-08	1.03E-06	1.97E-02	1.06E-07
Future	MAX	phenanthrene	Future_MAX_phenanthrene	4.10E-05	4.10E-04	2.08E-04	1.87E-03	3.12E-10	7.59E-01	7.08E-05	9.17E-05	3.98E-06	1.66E-04	3.19E+00	1.72E-05
Baseline	MAX	pyrene	Baseline_MAX_pyrene	2.68E-04	2.68E-03	3.99E-05	1.79E-04	2.04E-09	7.26E-02	4.06E-05	4.89E-05	1.53E-05	1.05E-04	6.12E-01	1.12E-04
Application	MAX	pyrene	Application_MAX_pyrene	2.68E-04	2.68E-03	3.99E-05	1.79E-04	2.04E-09	7.26E-02	4.06E-05	4.89E-05	1.53E-05	1.05E-04	6.12E-01	1.12E-04
PDC	MAX	pyrene	PDC_MAX_pyrene	5.58E-04	5.58E-03	6.14E-05	3.72E-04	4.24E-09	1.51E-01	8.46E-05	1.02E-04	3.18E-05	2.18E-04	9.43E-01	2.34E-04
KNOC Alone	MAX	pyrene	KNOC Alone_MAX_pyrene	5.10E-06	5.10E-05	3.78E-07	3.40E-06	3.88E-11	1.38E-03	7.73E-07	9.30E-07	2.91E-07	1.99E-06	5.81E-03	2.14E-06
Future	MAX	pyrene	Future_MAX_pyrene	2.90E-04	2.90E-03	2.15E-05	1.93E-04	2.21E-09	7.86E-02	4.40E-05	5.29E-05	1.65E-05	1.13E-04	3.31E-01	1.22E-04

Table J2-A-8 Wildlife Receptor Exposure Variables				
Receptor	Variable	Value	Units	Reference
Moose	AIR	7.2E+01	m ³ /day	Allometric equation for mammals 3-20; US EPA 1993
Moose	BW	4.50E+02	kg-WW	ASRD 2002
Moose	Per_SIR	2.0%	% of Diet	Actually <2%; Suter et al. 2000
Moose	SIR	2.35E-01	kg-soil/day	Calculated; See estimation of Soil / Sediment Ingestion Rate
Moose	WIR	2.42E+01	L/day	Allometric equation 3-17; US EPA 1993
Ruffed_Grouse	AIR	3.1E-01	m ³ /day	Allometric equation for birds 3-19; US EPA 1993
Ruffed_Grouse	BW	7.02E-01	kg-WW	US EPA 1993
Ruffed_Grouse	Per_SIR	9.3%	% of Diet	Assumed similar to wild turkey; Suter et al. 2000
Ruffed_Grouse	SIR	5.24E-03	kg-soil/day	Calculated; See estimation of Soil / Sediment Ingestion Rate
Ruffed_Grouse	WIR	4.65E-02	L/day	Allometric equation 3-15; US EPA 1993
Snowshoe_hare	AIR	7.1E-01	m ³ /day	Allometric equation for mammals 3-20; US EPA 1993
Snowshoe_hare	BW	1.40E+00	kg-WW	US EPA 1993
Snowshoe_hare	Per_SIR	2.8%	% of Diet	Assumed similar to cotton rat; Suter et al. 2000
Snowshoe_hare	SIR	3.70E-03	kg-soil/day	Calculated; See estimation of Soil / Sediment Ingestion Rate
Snowshoe_hare	WIR	1.34E-01	L/day	Allometric equation 3-17; US EPA 1993

Notes:

AIR = Air inhalation rate

BW = Body Weight

SIR = Soil ingestion rate

Sed_IR = Sediment ingestion rate

WIR = Water ingestion rate

Table J2-A-9 Estimation of Soil Ingestion Rate

Receptor		Percent Soil in Diet		
moose		2.0%		
NFMR	Units			
4.52E+01	kcal/kg/day			
2.03E+04	kcal/day			
2.03E+07	cal/day			
BW	Units			
4.50E+02	kg			
Estimation of Average Metabolizable Energy				
Diet	Portion	GE	AE	FIR
		[kcal/kg-DW]	[%]	kg/day
Invert	0%	5400	72%	0.00E+00
Browse	80%	4200	41%	9.44E+00
Aquatic Plant	20%	4300	41%	2.31E+00
			Sum	1.18E+01
Estimation of Total Ingestion Rate [kg-food / day]				1.18E+01
Soil Ingestion Rate [kg-soil / day]				2.35E-01
Estimation of Total Normalized Ingestion Rate [kg-food / kg-BW day]				2.61E-02

Receptor		Percent Soil in Diet		
snowshoe_hare		2.8%		
NFMR	Units			
1.63E+02	kcal/kg/day			
2.28E+02	kcal/day			
2.28E+05	cal/day			
BW	Units			
1.40E+00	kg			
Estimation of Average Metabolizable Energy				
Diet	Portion	GE	AE	FIR
		[kcal/kg-DW]	[%]	kg/day
Invert	0%	5400	72%	0.00E+00
Browse	100%	4200	41%	1.32E-01
Aquatic Plant	0%	4300	41%	0.00E+00
			Sum	1.32E-01
Estimation of Total Ingestion Rate [kg-food / day]				1.32E-01
Soil Ingestion Rate [kg-soil / day]				3.70E-03
Estimation of Total Normalized Ingestion Rate [kg-food / kg-BW day]				9.44E-02

Table J2-A-9 Estimation of Soil Ingestion Rate

Receptor		Percent Soil in Diet		
ruffed_grouse		9.3%		
NFMR	Units			
1.55E+02	kcal/kg/day			
1.09E+02	kcal/day			
1.09E+05	cal/day			
BW	Units			
7.02E-01	kg			
Estimation of Average Metabolizable Energy				
Diet	Portion	GE	AE	FIR
		[kcal/kg-DW]	[%]	kg/day
Invert	20%	5400	72%	5.61E-03
Browse	80%	4200	41%	5.07E-02
Aquatic Plant	0%	4300	41%	0.00E+00
			Sum	5.63E-02
Estimation of Total Ingestion Rate [kg-food / day]				5.63E-02
Soil Ingestion Rate [kg-soil / day]				5.24E-03
Estimation of Total Normalized Ingestion Rate [kg-food / kg-BW day]				8.02E-02

Table J2-A-10 Normalized to Body Weight Free-living (Field) Metabolic Rate (NFMR)						
Receptor	NFMR [kcal/kg bw/day] A	FMR [kcal/day] B	Body Weight [grams]	a	b	Reference/Comments
Moose	4.52E+01	2.03E+04	4.50E+05	1.52E+00	7.30E-01	US EPA 1993
Ruffed_Grouse	1.55E+02	1.09E+02	7.02E+02	8.51E-01	9.59E-01	Used "Galliformes" (Nagy et al. 1999)
Snowshoe_hare	1.63E+02	2.28E+02	1.40E+03	5.48E+00	7.12E-01	Used "Rodentia" (Nagy et al. 1999)

A) NFMR = Normalized Free Metabolic Rate = FMR / BW; Where BW is in kg

B) FMR = Free Metabolic Rate [kcal/day] = (a x BW^b) / 4.184 Kj/calorie; Where BW is in grams; moose equation already in kcal units

**Table J2-A-11 Receptor Dietary Composition
[media % of diet]**

Receptor	Media	Value
Moose	Browse	80.0%
Moose	Invert	0.0%
Moose	Aquatic Plant	20.0%
Ruffed_grouse	Browse	80.0%
Ruffed_grouse	Invert	20.0%
Ruffed_grouse	Aquatic Plant	0.0%
Snowshoe_hare	Browse	100.0%
Snowshoe_hare	Invert	0.0%
Snowshoe_hare	Aquatic Plant	0.0%

Table J2-A-12 Metabolizable Energy (ME) of Dietary Items [kcal/kg] A		
Receptor	Dietary Item	Value
Moose	Browse	1722
Moose	Invert	3888
Moose	Aquatic Plant	1763
Ruffed_grouse	Browse	1722
Ruffed_grouse	Invert	3888
Ruffed_grouse	Aquatic Plant	1763
Snowshoe_hare	Browse	1722
Snowshoe_hare	Invert	3888
Snowshoe_hare	Aquatic Plant	1763

A) US EPA 1993; Equation 4-17

Table J2-A-13 Gross Energy (GE) of Dietary Items [kcal/kg dw] A			
Receptor	Dietary Item	Value	Reference/Comments
Moose	Browse	4200	monocot young grasses; US EPA 1993
Moose	Invert	5400	grasshopper, crickets; US EPA 1993
Moose	Aquatic Plant	4300	aquatic emergent vegetation; US EPA 1993
Ruffed_grouse	Browse	4200	monocot young grasses; US EPA 1993
Ruffed_grouse	Invert	5400	grasshopper, crickets; US EPA 1993
Ruffed_grouse	Aquatic Plant	4300	aquatic emergent vegetation; US EPA 1993
Snowshoe_hare	Browse	4200	monocot young grasses; US EPA 1993
Snowshoe_hare	Invert	5400	grasshopper, crickets; US EPA 1993
Snowshoe_hare	Aquatic Plant	4300	aquatic emergent vegetation; US EPA 1993

A) US EPA 1993; Tables 4-1 & 4-2

Table J2-A-14 Assimilation Efficiency (AE) of Dietary Items [Percent% Efficiency] A			
Receptor	Dietary Item	Value	Reference/Comments
Moose	Aquatic Plant	41%	mature grasses; US EPA 1993
Moose	Browse	41%	mature grasses; US EPA 1993
Moose	Invert	72%	terrestrial insects; US EPA 1993
Ruffed_grouse	Aquatic Plant	41%	mature grasses; US EPA 1993
Ruffed_grouse	Browse	41%	mature grasses; US EPA 1993
Ruffed_grouse	Invert	72%	terrestrial insects; US EPA 1993
Snowshoe_hare	Aquatic Plant	41%	mature grasses; US EPA 1993
Snowshoe_hare	Browse	41%	mature grasses; US EPA 1993
Snowshoe_hare	Invert	72%	terrestrial insects; US EPA 1993

A) US EPA 1993; Table 4-3

Table J2-A-15 Chemical groups	
Chemical	Group
2-methylnaphthalene	PAH
3-methylcholanthrene	PAH
7,12-dimethylbenz(a)anthracene	PAH
acenaphthene	PAH
acenaphthylene	PAH
anthracene	PAH
benz(a)anthracene	PAH
benzo(a)pyrene	PAH
benzo(b)fluoranthene	PAH
benzo(g,h,i)perylene	PAH
benzo(k)fluoranthene	PAH
chrysene	PAH
dibenz(a,h)anthracene	PAH
fluoranthene	PAH
fluorene	PAH
formaldehyde	VOC
indeno(1,2,3-cd)pyrene	PAH
naphthalene	PAH
phenanthrene	PAH
pyrene	PAH

Table J2-A-16 Kow			
Chemical	Value	Log(Kow)	Reference
2-methylnaphthalene	1.02E+04	4.01E+00	Mackay et al 1992
3-methylcholanthrene	9.12E+06	6.96E+00	Mackay et al 1992
7,12-dimethylbenz(a)anthracene	2.09E+06	6.32E+00	Mackay et al 1992
acenaphthene	7.94E+03	3.90E+00	US EPA OSW 2005
acenaphthylene	8.71E+03	3.94E+00	Mackay et al 1992
anthracene	3.16E+04	4.50E+00	US EPA OSW 2005
benz(a)anthracene	5.01E+05	5.70E+00	US EPA OSW 2005
benzo(a)pyrene	1.00E+06	6.00E+00	US EPA OSW 2005
benzo(b)fluoranthene	1.26E+06	6.10E+00	US EPA OSW 2005
benzo(g,h,i)perylene	1.05E+07	7.02E+00	Mackay et al 1992
benzo(k)fluoranthene	1.26E+06	6.10E+00	US EPA OSW 2005
chrysene	5.01E+05	5.70E+00	US EPA OSW 2005
dibenz(a,h)anthracene	3.16E+06	6.50E+00	US EPA OSW 2005
fluoranthene	1.00E+05	5.00E+00	US EPA OSW 2005
fluorene	1.58E+04	4.20E+00	US EPA OSW 2005
formaldehyde	2.24E+00	3.50E-01	US EPA OSW 2005
indeno(1,2,3-cd)pyrene	3.98E+06	6.60E+00	US EPA OSW 2005
naphthalene	2.00E+03	3.30E+00	US EPA OSW 2005
phenanthrene	3.16E+04	4.50E+00	US EPA OSW 2005
pyrene	7.94E+04	4.90E+00	US EPA OSW 2005

Table J2-A-17 Henry's constant [atm m ³ / mol]				
Chemical	Value	H [Pa m ³ /mol]	H' [Unitless]	Reference
2-methylnaphthalene	4.49E-04	4.55E+01	1.84E-02	Mackay et al 1992
3-methylcholanthrene	1.10E-04	1.11E+01	4.51E-03	Assumed equal to B(b)F
7,12-dimethylbenz(a)anthracene	3.40E-06	3.45E-01	1.39E-04	Assumed equal to B(a)A
acenaphthene	1.60E-04	1.62E+01	6.56E-03	US EPA OSW 2005
acenaphthylene	4.48E-04	4.54E+01	1.84E-02	Mackay et al 1992
anthracene	6.50E-05	6.59E+00	2.67E-03	US EPA OSW 2005
benz(a)anthracene	3.40E-06	3.45E-01	1.39E-04	US EPA OSW 2005
benzo(a)pyrene	1.10E-06	1.11E-01	4.51E-05	US EPA OSW 2005
benzo(b)fluoranthene	1.10E-04	1.11E+01	4.51E-03	US EPA OSW 2005
benzo(g,h,i)perylene	1.82E-06	1.85E-01	7.48E-05	Mackay et al 1992
benzo(k)fluoranthene	8.30E-07	8.41E-02	3.40E-05	US EPA OSW 2005
chrysene	9.50E-05	9.63E+00	3.90E-03	US EPA OSW 2005
dibenz(a,h)anthracene	1.50E-08	1.52E-03	6.15E-07	US EPA OSW 2005
fluoranthene	1.60E-05	1.62E+00	6.56E-04	US EPA OSW 2005
fluorene	6.40E-05	6.48E+00	2.62E-03	US EPA OSW 2005
formaldehyde	3.36E-07	3.40E-02	1.38E-05	US EPA OSW 2005
indeno(1,2,3-cd)pyrene	1.60E-06	1.62E-01	6.56E-05	Mackay et al 1992
naphthalene	4.80E-04	4.86E+01	1.97E-02	US EPA OSW 2005
phenanthrene	2.30E-05	2.33E+00	9.43E-04	US EPA OSW 2005
pyrene	1.10E-05	1.11E+00	4.49E-04	US EPA OSW 2005

Table J2-A-18 Vapour pressure [mmHg]					
Chemical	Value	VP[atm]	VP[Pa]	VP[kPa]	Reference
2-methylnaphthalene	6.28E-02	8.26E-05	8.37E+00	8.37E-03	Mackay et al 1992
3-methylcholanthrene	7.73E-10	1.02E-12	1.03E-07	1.03E-10	Mackay et al 1992
7,12-dimethylbenz(a)anthracene	2.69E-08	3.53E-11	3.58E-06	3.58E-09	Mackay et al 1992
acenaphthene	2.50E-03	3.29E-06	3.33E-01	3.33E-04	US EPA OSW 2005
acenaphthylene	1.27E-02	1.67E-05	1.69E+00	1.69E-03	Mackay et al 1992
anthracene	2.70E-06	3.6E-09	3.60E-04	3.60E-07	US EPA OSW 2005
benz(a)anthracene	1.10E-07	1.45E-10	1.47E-05	1.47E-08	US EPA OSW 2005
benzo(a)pyrene	5.50E-09	7.24E-12	7.34E-07	7.34E-10	US EPA OSW 2005
benzo(b)fluoranthene	5.00E-07	6.58E-10	6.67E-05	6.67E-08	US EPA OSW 2005
benzo(g,h,i)perylene	1.33E-09	1.75E-12	1.78E-07	1.78E-10	Mackay et al 1992
benzo(k)fluoranthene	2.00E-09	2.63E-12	2.66E-07	2.66E-10	US EPA OSW 2005
chrysene	6.20E-09	8.16E-12	8.27E-07	8.27E-10	US EPA OSW 2005
dibenz(a,h)anthracene	1.00E-10	1.32E-13	1.34E-08	1.34E-11	US EPA OSW 2005
fluoranthene	7.83E-06	1.03E-08	1.04E-03	1.04E-06	US EPA OSW 2005
fluorene	6.30E-04	8.3E-07	8.40E-02	8.40E-05	US EPA OSW 2005
formaldehyde	5.24E+03	6.9E+00	6.98E+05	6.98E+02	US EPA OSW 2005
indeno(1,2,3-cd)pyrene	1.00E-10	1.32E-13	2.03E+04	2.03E+01	US EPA OSW 2005
naphthalene	8.51E-02	1.12E-04	1.13E+01	1.13E-02	US EPA OSW 2005
phenanthrene	1.10E-04	1.45E-07	1.47E-02	1.47E-05	US EPA OSW 2005
pyrene	4.60E-06	6.05E-09	6.13E-04	6.13E-07	US EPA OSW 2005

Table J2-A-19 Solubility [mg/L] or [ppm]			
Chemical	Value	S[kg/m3]	Reference
2-methylnaphthalene	2.55E+01	2.55E-02	Mackay et al 1992
3-methylcholanthrene	1.08E-02	1.08E-05	Mackay et al 1992
7,12-dimethylbenz(a)anthracene	8.70E-02	8.70E-05	Mackay et al 1992
acenaphthene	3.60E+00	3.60E-03	US EPA OSW 2005
acenaphthylene	6.96E+00	6.96E-03	Mackay et al 1992
anthracene	4.30E-02	4.30E-05	US EPA OSW 2005
benz(a)anthracene	9.40E-03	9.40E-06	US EPA OSW 2005
benzo(a)pyrene	1.60E-03	1.60E-06	US EPA OSW 2005
benzo(b)fluoranthene	1.50E-03	1.50E-06	US EPA OSW 2005
benzo(g,h,i)perylene	3.28E-04	3.28E-07	Mackay et al 1992
benzo(k)fluoranthene	8.00E-04	8.00E-07	US EPA OSW 2005
chrysene	6.30E-03	6.30E-06	US EPA OSW 2005
dibenz(a,h)anthracene	2.50E-03	2.50E-06	US EPA OSW 2005
fluoranthene	2.10E-01	2.10E-04	US EPA OSW 2005
fluorene	2.00E+00	2.00E-03	US EPA OSW 2005
formaldehyde	5.50E+05	5.50E+02	US EPA OSW 2005
indeno(1,2,3-cd)pyrene	2.20E-05	2.20E-08	US EPA OSW 2005
naphthalene	3.10E+01	3.10E-02	US EPA OSW 2005
phenanthrene	1.10E+00	1.10E-03	US EPA OSW 2005
pyrene	1.40E+00	1.40E-03	US EPA OSW 2005

Table J2-A-20 Koc [(mg/g) / (mg/mL)] or [L/kg]			
Chemical	Value	Log(Koc)	Reference
2-methylnaphthalene	3.39E+03	3.53E+00	Mackay et al 1992
3-methylcholanthrene	4.68E+05	5.67E+00	Mackay et al 1992
7,12-dimethylbenz(a)anthracene	1.51E+05	5.18E+00	Mackay et al 1992
acenaphthene	4.90E+03	3.69E+00	US EPA OSW 2005
acenaphthylene	4.07E+03	3.61E+00	Mackay et al 1992
anthracene	2.35E+04	4.37E+00	US EPA OSW 2005
benz(a)anthracene	3.58E+05	5.55E+00	US EPA OSW 2005
benzo(a)pyrene	9.69E+05	5.99E+00	US EPA OSW 2005
benzo(b)fluoranthene	1.05E+06	6.02E+00	US EPA OSW 2005
benzo(g,h,i)perylene	1.70E+06	6.23E+00	Mackay et al 1992
benzo(k)fluoranthene	9.92E+05	6.00E+00	US EPA OSW 2005
chrysene	4.01E+05	5.60E+00	US EPA OSW 2005
dibenz(a,h)anthracene	1.79E+06	6.25E+00	US EPA OSW 2005
fluoranthene	4.91E+04	4.69E+00	US EPA OSW 2005
fluorene	7.71E+03	3.89E+00	US EPA OSW 2005
formaldehyde	2.21E+00	3.44E-01	US EPA OSW 2005
indeno(1,2,3-cd)pyrene	3.08E+06	6.49E+00	US EPA OSW 2005
naphthalene	1.19E+03	3.08E+00	US EPA OSW 2005
phenanthrene	2.65E+04	4.42E+00	US EPA OSW 2005
pyrene	6.80E+04	4.83E+00	US EPA OSW 2005

Table J2-A-21 Fraction of Chemical in the Vapour Phase		
Chemical	Value	Reference
2-methylnaphthalene	100.0%	Assumed equal to naphthalene
3-methylcholanthrene	96.6%	Assumed equal to B(b)fluoranthene
7,12-dimethylbenz(a)anthracene	48.3%	Assumed equal to B(a)anthracene
acenaphthene	100.0%	US EPA OSW 2005
acenaphthylene	100.0%	Assumed
anthracene	99.8%	US EPA OSW 2005
benz(a)anthracene	48.3%	US EPA OSW 2005
benzo(a)pyrene	29.4%	US EPA OSW 2005
benzo(b)fluoranthene	96.6%	US EPA OSW 2005
benzo(g,h,i)perylene	5.5%	Assumed equal to dibenz(a,h)anthracene
benzo(k)fluoranthene	27.3%	US EPA OSW 2005
chrysene	74.4%	US EPA OSW 2005
dibenz(a,h)anthracene	5.5%	US EPA OSW 2005
fluoranthene	99.2%	US EPA OSW 2005
fluorene	100.0%	US EPA OSW 2005
formaldehyde	100.0%	US EPA OSW 2005
indeno(1,2,3-cd)pyrene	0.5%	US EPA OSW 2005
naphthalene	100.0%	US EPA OSW 2005
phenanthrene	99.9%	US EPA OSW 2005
pyrene	99.4%	US EPA OSW 2005

Table J2-A-22 Deposition velocities [m/s]				
Chemical	Wet	Dry	Reference Wet	Reference Dry
2-methylnaphthalene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
3-methylcholanthrene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
7,12-dimethylbenz(a)anthracene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
acenaphthene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
acenaphthylene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
anthracene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
benz(a)anthracene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
benzo(a)pyrene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
benzo(b)fluoranthene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
benzo(g,h,i)perylene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
benzo(k)fluoranthene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
chrysene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
dibenz(a,h)anthracene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
fluoranthene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
fluorene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
formaldehyde	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
indeno(1,2,3-cd)pyrene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
naphthalene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
phenanthrene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005
pyrene	2.89E-03	1.00E-02	Mackay 1991	Extrapolation from Wesley and Hicks 2000; WESA 2005

Wet deposition velocity based on annual average precipitation of 456mm (Environment Canada 2009)

Table J2-A-23 Degradation and Volatilization Soil Loss Constant (kt) [yr-1]							
Chemical	Kt	Ks(yr-1)	Half-life [Days]	Reference	Kv(yr-1)	Half-life [Days]	Comment/Reference
2-methylnaphthalene	1.16E+04	5.27E+00	4.80E+01	Assumed = naphthalene	1.16E+04	2.17E-02	Lyman et al. 1990
3-methylcholanthrene	1.83E-01	1.81E-01	1.40E+03	Mackay et al 1992	2.45E-03	1.03E+05	Lyman et al. 1990
7,12-dimethylbenz(a)anthracene	4.03E-01	3.70E-01	6.84E+02	Assumed = B(a)A	3.27E-02	7.75E+03	Lyman et al. 1990
acenaphthene	2.27E+03	2.48E+00	1.02E+02	US EPA OSW 2005	2.27E+03	1.11E-01	Lyman et al. 1990
acenaphthylene	7.18E+03	4.22E+00	6.00E+01	Mackay et al 1992	7.17E+03	3.53E-02	Lyman et al. 1990
anthracene	4.33E+01	5.50E-01	4.60E+02	US EPA OSW 2005	4.28E+01	5.92E+00	Lyman et al. 1990
benz(a)anthracene	8.94E-01	3.70E-01	6.84E+02	US EPA OSW 2005	5.24E-01	4.82E+02	Lyman et al. 1990
benzo(a)pyrene	5.37E-01	4.80E-01	5.27E+02	US EPA OSW 2005	5.68E-02	4.45E+03	Lyman et al. 1990
benzo(b)fluoranthene	5.51E+00	4.10E-01	6.17E+02	US EPA OSW 2005	5.10E+00	4.96E+01	Lyman et al. 1990
benzo(g,h,i)perylene	4.28E-01	3.89E-01	6.50E+02	Mackay et al 1992	3.83E-02	6.61E+03	Lyman et al. 1990
benzo(k)fluoranthene	1.60E-01	1.20E-01	2.11E+03	US EPA OSW 2005	4.03E-02	6.27E+03	Lyman et al. 1990
chrysene	2.89E-01	2.50E-01	1.01E+03	US EPA OSW 2005	3.93E-02	6.44E+03	Lyman et al. 1990
dibenz(a,h)anthracene	2.70E-01	2.70E-01	9.38E+02	US EPA OSW 2005	3.59E-04	7.05E+05	Lyman et al. 1990
fluoranthene	1.27E+01	5.70E-01	4.44E+02	US EPA OSW 2005	1.22E+01	2.08E+01	Lyman et al. 1990
fluorene	6.58E+02	4.22E+00	6.00E+01	US EPA OSW 2005	6.54E+02	3.87E-01	Lyman et al. 1990
formaldehyde	6.90E+07	3.61E+01	7.01E+00	US EPA OSW 2005	6.90E+07	3.67E-06	Lyman et al. 1990
indeno(1,2,3-cd)pyrene	3.74E-01	3.50E-01	7.23E+02	US EPA OSW 2005	2.37E-02	1.07E+04	Lyman et al. 1990
naphthalene	3.70E+04	5.27E+00	4.80E+01	US EPA OSW 2005	3.69E+04	6.85E-03	Lyman et al. 1990
phenanthrene	6.17E+01	1.26E+00	2.01E+02	US EPA OSW 2005	6.05E+01	4.18E+00	Lyman et al. 1990
pyrene	9.03E-01	1.30E-01	1.95E+03	US EPA OSW 2005	7.73E-01	3.27E+02	Lyman et al. 1990

Volatilization half-life [Days] = (0.0000000158 x Koc x S) / VP

Table J2-A-24 Surface water loss constant (ksw) [yr-1]			
Chemical	Value	Half-life [Days]	Reference
2-methylnaphthalene	1.10E+02	2.30E+00	US EPA 2004
3-methylcholanthrene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
7,12-dimethylbenz(a)anthracene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
acenaphthene	4.05E+01	6.25E+00	Mackay et al 1992, midpt of range (150 hrs)
acenaphthylene	4.22E+00	6.00E+01	US EPA 2004
anthracene	1.10E+01	2.30E+01	Mackay & Hickie 2000
benz(a)anthracene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
benzo(a)pyrene	3.57E+00	7.10E+01	Mackay & Hickie 2000
benzo(b)fluoranthene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
benzo(g,h,i)perylene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
benzo(k)fluoranthene	1.21E+01	2.10E+01	Mackay & Hickie 2000
chrysene	3.57E+00	7.10E+01	Mackay & Hickie 2000
dibenz(a,h)anthracene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
fluoranthene	3.57E+00	7.10E+01	Mackay & Hickie 2000
fluorene	3.57E+00	7.10E+01	Mackay & Hickie 2000
formaldehyde	6.33E+01	4.00E+00	Mackay et al 1992, midpt of range (96 hrs)
indeno(1,2,3-cd)pyrene	3.57E+00	7.10E+01	Assumed = benzo(a)pyrene
naphthalene	1.10E+01	2.30E+01	US EPA 2004
phenanthrene	3.57E+00	7.10E+01	Mackay & Hickie 2000
pyrene	3.57E+00	7.10E+01	Mackay & Hickie 2000

Table J2-A-25 Percent of Exposure Derived from Impacted Area		
Receptor	Value	Comment
Moose	100%	Assumed
Ruffed_Grouse	100%	Assumed
Snowshoe_hare	100%	Assumed

Table J2-A-26 Water Content in Wildlife Food [%]		
Receptor	Value	Reference
Browse	63%	Site-specific data for Alder (regional data)
Invert	69%	Suter et al. 2000 (Table 3.5)
Aquatic Plant	84%	Suter et al. 2000 (Table 3.5)

Table J2-A-27 Equation Variables Plant Concentration Due to Direct Deposition			
Variable	Value	Units	Reference
Empirical Constant - (y)	2.88	Unitless	US EPA OSW 2005
Yield or Standing Biomass for Forage/Browse (Yp)	0.24	kg DW/m ²	US EPA OSW 2005
Plant Surface Loss Coefficient - (kp)	18	yr ⁻¹	US EPA OSW 2005
Period of Browse Exposure - (Tp)	0.12	yr	US EPA OSW 2005
Fraction of COPC in Vapour Phase	NA	Chemical Specific	
Deposition Velocity	NA	Chemical Specific	

Table J2-A-28 Time Period of Deposition [years]		
Variable	Value	Comment
Time	75	Life of facility

Table J2-A-29 Soil Properties			
Variable	Value	Units	Reference
Surface Soil Mixing Depth = Depth1	0.02	m	US EPA OSW 2005
Soil Mixing Depth for Plants = Depth2	0.2	m	US EPA OSW 2005
Soil Bulk Density	1500	kg/m ³	US EPA OSW 2005

Table J2-A-30 Gas Constants		
Variable	Value	Units
Universal Gas Constant (R)	8.21E-05	atm m ³ / mol
Temperature (T)	288	Kelvin
R x T	2.36E-02	Kelvin atm m ³ / mol

Table J2-A-31 Literature Derived Regression Models and Bio-concentration Factors for the ERA [DW basis]			
Media	Chemical	UF	Reference/Comment
Aquatic Plant	2-methylnaphthalene	1.54E+04	Assumed = benzo(a)pyrene; US EPA OSW 1999
Aquatic Plant	3-methylcholanthrene	1.54E+04	Assumed = benzo(a)pyrene; US EPA OSW 1999
Aquatic Plant	7,12-dimethylbenz(a)anthracene	1.54E+04	Based on all PAHs; US EPA OSW 1999
Aquatic Plant	acenaphthene	1.54E+04	Assumed = benzo(a)pyrene; US EPA OSW 1999
Aquatic Plant	acenaphthylene	1.54E+04	Assumed = benzo(a)pyrene; US EPA OSW 1999
Aquatic Plant	anthracene	1.54E+04	Assumed = PAHs; US EPA OSW 1999
Aquatic Plant	benz(a)anthracene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	benzo(a)pyrene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	benzo(b)fluoranthene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	benzo(g,h,i)perylene	1.54E+04	Assumed = PAHs; US EPA OSW 1999
Aquatic Plant	benzo(k)fluoranthene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	chrysene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	dibenz(a,h)anthracene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	fluoranthene	1.54E+04	Assumed = PAHs; US EPA OSW 1999
Aquatic Plant	fluorene	1.54E+04	Assumed = PAHs; US EPA OSW 1999
Aquatic Plant	formaldehyde	4.09E-01	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	indeno(1,2,3-cd)pyrene	1.54E+04	US EPA OSW 1999 App C, Table C-4 Water-to-Algae BCF
Aquatic Plant	naphthalene	3.60E+01	Southworth et al. 1978
Aquatic Plant	phenanthrene	1.54E+04	Assumed = PAHs; US EPA OSW 1999
Aquatic Plant	pyrene	1.54E+04	Assumed = PAHs; US EPA OSW 1999
Browse	2-methylnaphthalene	1.86E-01	US EPA OSW 2005
Browse	3-methylcholanthrene	3.67E-03	US EPA OSW 2005
Browse	7,12-dimethylbenz(a)anthracene	8.61E-03	US EPA OSW 2005
Browse	acenaphthene	2.16E-01	US EPA OSW 2005
Browse	acenaphthylene	2.04E-01	US EPA OSW 2005
Browse	anthracene	9.71E-02	US EPA OSW 2005
Browse	benz(a)anthracene	1.97E-02	US EPA OSW 2005
Browse	benzo(a)pyrene	1.32E-02	US EPA OSW 2005
Browse	benzo(b)fluoranthene	1.15E-02	US EPA OSW 2005
Browse	benzo(g,h,i)perylene	3.39E-03	US EPA OSW 2005
Browse	benzo(k)fluoranthene	1.15E-02	US EPA OSW 2005
Browse	chrysene	1.97E-02	US EPA OSW 2005
Browse	dibenz(a,h)anthracene	6.78E-03	US EPA OSW 2005
Browse	fluoranthene	4.99E-02	US EPA OSW 2005
Browse	fluorene	1.45E-01	US EPA OSW 2005
Browse	formaldehyde	8.42E+00	US EPA OSW 2005
Browse	indeno(1,2,3-cd)pyrene	5.93E-03	US EPA OSW 2005
Browse	naphthalene	4.79E-01	US EPA OSW 2005
Browse	phenanthrene	9.71E-02	US EPA OSW 2005
Browse	pyrene	5.70E-02	US EPA OSW 2005
Invert	2-methylnaphthalene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	3-methylcholanthrene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	7,12-dimethylbenz(a)anthracene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	acenaphthene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	acenaphthylene	4.19E-01	Assumed = PAHs; US EPA OSW 1999
Invert	anthracene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	benz(a)anthracene	1.80E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	benzo(a)pyrene	4.19E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	benzo(b)fluoranthene	4.19E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	benzo(g,h,i)perylene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	benzo(k)fluoranthene	4.79E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	chrysene	2.40E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	dibenz(a,h)anthracene	4.19E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	fluoranthene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	fluorene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	formaldehyde	8.39E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	indeno(1,2,3-cd)pyrene	4.79E-01	US EPA OSW 1999 App C, Table C-1 Soil to Invert BCF
Invert	naphthalene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	phenanthrene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999
Invert	pyrene	4.19E-01	Assumed = benzo(a)pyrene; US EPA OSW 1999

Notes:

Predicted Linear Uptake Factors:

UF Soil - Plant [dry weight] = $\log BCF = 1.588 - 0.578 \log(Kow)$; Travis and Arms 1988

UF Soil - Invertebrate [dry weight] = $\log BCF = 1.146 - 0.819 \log(Kow)$; Southworth et al.1978

Table J2-A-32 Bio transfer factors [day/kg FW]			
Media	Chemical	Value	Comment
Moose	2-methylnaphthalene	2.62E-02	US EPA OSW 2005
Moose	3-methylcholanthrene	2.35E-02	US EPA OSW 2005
Moose	7,12-dimethylbenz(a)anthracene	3.36E-04	US EPA OSW 2005
Moose	acenaphthene	2.43E-02	US EPA OSW 2005
Moose	acenaphthylene	2.50E-02	US EPA OSW 2005
Moose	anthracene	3.38E-04	US EPA OSW 2005
Moose	benz(a)anthracene	3.99E-04	US EPA OSW 2005
Moose	benzo(a)pyrene	3.76E-04	US EPA OSW 2005
Moose	benzo(b)fluoranthene	3.65E-04	US EPA OSW 2005
Moose	benzo(g,h,i)perylene	2.25E-04	US EPA OSW 2005
Moose	benzo(k)fluoranthene	3.65E-04	US EPA OSW 2005
Moose	chrysene	3.99E-04	US EPA OSW 2005
Moose	dibenz(a,h)anthracene	3.10E-04	US EPA OSW 2005
Moose	fluoranthene	3.92E-04	US EPA OSW 2005
Moose	fluorene	2.93E-04	US EPA OSW 2005
Moose	formaldehyde	1.21E-04	US EPA OSW 2005
Moose	indeno(1,2,3-cd)pyrene	2.94E-04	US EPA OSW 2005
Moose	naphthalene	1.48E-04	US EPA OSW 2005
Moose	phenanthrene	3.38E-04	US EPA OSW 2005
Moose	pyrene	3.84E-04	US EPA OSW 2005
Ruffed_Grouse	2-methylnaphthalene	1.93E-02	US EPA OSW 2005
Ruffed_Grouse	3-methylcholanthrene	1.73E-02	US EPA OSW 2005
Ruffed_Grouse	7,12-dimethylbenz(a)anthracene	2.48E-04	US EPA OSW 2005
Ruffed_Grouse	acenaphthene	1.79E-02	US EPA OSW 2005
Ruffed_Grouse	acenaphthylene	1.84E-02	US EPA OSW 2005
Ruffed_Grouse	anthracene	2.49E-04	US EPA OSW 2005
Ruffed_Grouse	benz(a)anthracene	2.94E-04	US EPA OSW 2005
Ruffed_Grouse	benzo(a)pyrene	2.77E-04	US EPA OSW 2005
Ruffed_Grouse	benzo(b)fluoranthene	2.69E-04	US EPA OSW 2005
Ruffed_Grouse	benzo(g,h,i)perylene	1.65E-04	US EPA OSW 2005
Ruffed_Grouse	benzo(k)fluoranthene	2.69E-04	US EPA OSW 2005
Ruffed_Grouse	chrysene	2.94E-04	US EPA OSW 2005
Ruffed_Grouse	dibenz(a,h)anthracene	2.28E-04	US EPA OSW 2005
Ruffed_Grouse	fluoranthene	2.89E-04	US EPA OSW 2005
Ruffed_Grouse	fluorene	2.16E-04	US EPA OSW 2005
Ruffed_Grouse	formaldehyde	8.88E-05	US EPA OSW 2005
Ruffed_Grouse	indeno(1,2,3-cd)pyrene	2.17E-04	US EPA OSW 2005
Ruffed_Grouse	naphthalene	1.09E-04	US EPA OSW 2005
Ruffed_Grouse	phenanthrene	2.49E-04	US EPA OSW 2005
Ruffed_Grouse	pyrene	2.83E-04	US EPA OSW 2005
Snowshoe_Hare	2-methylnaphthalene	2.62E-02	US EPA OSW 2005
Snowshoe_Hare	3-methylcholanthrene	2.35E-02	US EPA OSW 2005
Snowshoe_Hare	7,12-dimethylbenz(a)anthracene	3.36E-04	US EPA OSW 2005
Snowshoe_Hare	acenaphthene	2.43E-02	US EPA OSW 2005
Snowshoe_Hare	acenaphthylene	2.50E-02	US EPA OSW 2005
Snowshoe_Hare	anthracene	3.38E-04	US EPA OSW 2005
Snowshoe_Hare	benz(a)anthracene	3.99E-04	US EPA OSW 2005
Snowshoe_Hare	benzo(a)pyrene	3.76E-04	US EPA OSW 2005
Snowshoe_Hare	benzo(b)fluoranthene	3.65E-04	US EPA OSW 2005
Snowshoe_Hare	benzo(g,h,i)perylene	2.25E-04	US EPA OSW 2005
Snowshoe_Hare	benzo(k)fluoranthene	3.65E-04	US EPA OSW 2005
Snowshoe_Hare	chrysene	3.99E-04	US EPA OSW 2005
Snowshoe_Hare	dibenz(a,h)anthracene	3.10E-04	US EPA OSW 2005
Snowshoe_Hare	fluoranthene	3.92E-04	US EPA OSW 2005
Snowshoe_Hare	fluorene	2.93E-04	US EPA OSW 2005
Snowshoe_Hare	formaldehyde	1.21E-04	US EPA OSW 2005
Snowshoe_Hare	indeno(1,2,3-cd)pyrene	2.94E-04	US EPA OSW 2005
Snowshoe_Hare	naphthalene	1.48E-04	US EPA OSW 2005
Snowshoe_Hare	phenanthrene	3.38E-04	US EPA OSW 2005
Snowshoe_Hare	pyrene	3.84E-04	US EPA OSW 2005

Table J2-A-33 Fat content		
Receptor	%	Reference/Comment
Moose	0.19	US EPA OSW 2005; assumed equal to beef
Ruffed_Grouse	0.14	US EPA OSW 2005; assumed equal to chicken
Snowshoe_Hare	0.19	US EPA OSW 2005; assumed equal to beef

Table J2-A-34 Metabolism factor

Chemical	Value	Reference
2-Methylnaphthalene	1.00	Assumed
3-Methylcholanthrene	1.00	Assumed
7,12-dimethylbenz(a)anthracene	0.01	Assumed similar to PAHs
acenaphthene	1.00	Assumed
acenaphthylene	1.00	Assumed
anthracene	0.01	Hofelt et al. 2001; US EPA OSW 2005
aromatic C9-C16 group	0.01	Assumed similar to PAHs
aromatic C17-C34 group	0.01	Assumed similar to PAHs
benz(a)anthracene	0.01	Hofelt et al. 2001; US EPA OSW 2005
benzo(a)pyrene	0.01	Hofelt et al. 2001; US EPA OSW 2005
benzo(b)fluoranthene	0.01	Hofelt et al. 2001; US EPA OSW 2005
benzo(g,h,i)perylene	0.01	Hofelt et al. 2001; US EPA OSW 2005
benzo(k)fluoranthene	0.01	Hofelt et al. 2001; US EPA OSW 2005
chrysene	0.01	Hofelt et al. 2001; US EPA OSW 2005
dibenz(a,h)anthracene	0.01	Hofelt et al. 2001; US EPA OSW 2005
fluoranthene	0.01	Hofelt et al. 2001; US EPA OSW 2005
fluorene	0.01	Hofelt et al. 2001; US EPA OSW 2005
formaldehyde	1.00	Assumed
indeno(1,2,3-cd)pyrene	0.01	Hofelt et al. 2001; US EPA OSW 2005
naphthalene	0.01	Assumed similar to PAHs
phenanthrene	0.01	Hofelt et al. 2001; US EPA OSW 2005
pyrene	0.01	Hofelt et al. 2001; US EPA OSW 2005

Table J2-A-35 Lake Parameters for Unnamed Lake Closest to Project				
Lake	Parameter	Value	Units	Comment/Reference
Lake	LA	500,000	m ²	Surface water quality assessment
Lake	LD	0.8	m	Surface water quality assessment
Lake	LV	400,000	m ³	area x depth
Lake	FR	400,000	m ³ /year	Assumed equal to volume or 1 exchange per year
Lake	FWC	100%	%	Assumed entire water column available for mixing

Notes

LA: Lake area

LD: Lake depth

LV: Lake volume

FR: Flow rate

FWC: Fraction of water column

References

ASRD (Alberta Sustainable Resource Development). 2002. Game Species. Living with Fish and Wildlife. Fish and Wildlife Division, Alberta Sustainable Resource Development. Last Reviewed/Updated August 12, 2002. Available at: <http://srd.alberta.ca/fishwildlife/default.aspx>. Accessed December 2007.

Environment Canada. 2009. Canadian Climate Normals 1971-2000. www.climate.weatheroffice.ec.gc.ca/climate_normals/results_e.html?Province=ALL. Accessed November 2009.

Hofelt, C.S., Honeycutt, M., McCoy, J.T., and Haws, L.C. 2001. Development of a metabolism factor for polycyclic aromatic hydrocarbons for use in multipathway risk assessments of hazardous waste combustion facilities. *Regulatory Toxicology and Pharmacology* 33, 60-65.

Lyman, Warren J., Reehl, W.F., and Rosenblatt, D.H. 1990. *Handbook of Chemical Property Estimation Methods*. American Chemical Society: Washington.

Mackay, D. 1991. *Multimedia Environmental Models The Fugacity Approach*. Lewis Publishers.

Mackay, D. and Hickie, B. 2000. Mass balance model of source apportionment, transport and fate of PAHs on Lac Saint Louis, Quebec. *Chemosphere* 41: 681-692.

Mackay, D., Ying Siu, W., and Ching Ma, K. 1992. *Illustrated Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals*. Vol I-III. Lewis Publishers. Chelsea, Michigan.

Nagy, K.A., I.A. Girard and T.K. Brown. 1999. Energetics of Free-Ranging Mammals, Reptiles, and Birds. *Annu. Rev. Nutr.* 19: 247-277.

Southworth, G.R., Beauchamp, J.J., and Schmieder, P.K. 1978. Bioaccumulation potential of polycyclic aromatic hydrocarbons in *Daphnia Pulex*. *Water Research*. Volume 12. Pages 973-977. As cited in Lyman, Reehl, and Rosenblatt (1982).

Suter, G.W., Efroymsen, R.A., Sample, B.E., and Jones, D.S. 2000. *Ecological Risk Assessment for Contaminated Sites*. Lewis Publishers, CRC Press LLC.

Travis, C.C., and Arms, A.D. 1988. Bioconcentration of organics in beef, milk and vegetation. *Environ Sci Technol* 22:271-274.

US EPA (United States Environmental Protection Agency). 1993. *Wildlife Exposure Factors Handbook*. Volumes I and II. Office of Research and Development. ORD. EPA-600-R-93-187. December 1993.

US EPA (United States Environmental Protection Agency). 2004. *Superfund Chemical Data Matrix*. Appendix A-4. January 2004.

US EPA (United States Environmental Protection Agency). 2007. *Risk Based Concentrations*. US EPA Region 3.

US EPA OSW (United States Environmental Protection Agency Office of Solid Waste). 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities, Volume I Peer Review Draft. (US) United States Environmental Protection Agency Region 6. Multimedia Planning and Permitting Division. Center for Combustion Science and Engineering. Office of Solid Waste.

US EPA OSW (United States Environmental Protection Agency Office of Solid Waste). 2005. Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Final. United States Environmental Protection Agency Region 6. Multimedia Planning and Permitting Division. Center for Combustion Science and Engineering. Office of Solid Waste. EPA530-R-05-006.

US EPA 2009. Estimation Programs Interface Suite™ for Microsoft® Windows, v 4.00 or insert version used]. United States Environmental Protection Agency, Washington, DC, USA. Based on fugacity model.

WESA (Water and Earth Science Association Ltd.). 2005. The Role of Soil--Plant Transfer of Chemicals in Risk Assessment and Guideline Derivation. Prepared for Health Canada. Final Report. April 2005.

Wesley, M.L. and Hicks, B.B. 2000. A review of the current status of knowledge on dry deposition. Atmospheric Environment 34:2261-2282.