APPENDIX E

Summary of Biological Data

The following tables contain a bolding convention devised to help the reader, when viewing the data, to quickly see the range of detectable measurements within a data series. A data series is a set of chemical or radionuclide measurements (e.g., gross alpha, gross beta, tritium) from a single location or from similar locations. Note that some tables contain data that should not be technically evaluated under this convention.

Key to bolding convention:

Results for each constituent constitute a single data series. If a radiological result is larger than the uncertainty term, the measurement is considered positive. Otherwise, a result is considered nondetectable.

If all results in a data series are positive, the lowest and highest values are bolded.
If a data series contains some positive results, the highest value is bolded.
If all values in a data series are nondetectable, no values are bolded.

TABLE E-1
2007 Radioactivity Concentrations in Milk

Location	K-40 (µCi/mL)	Sr-90 (µCi/mL)	I-129 (µCi/mL)	Cs-137 (µCi/mL)
BFMBLSY (WNW Farm)				
Annual	1.50±0.18E-06	5.03±5.42E-10	-0.63±1.70E-10	1.89±3.37E-09
BFMCTLS (Control)				
Annual	1.42±0.17E-06	5.54±7.49E-10	-4.94±3.46E-10	-2.74±4.51E-09
BFMSCHT (S Farm)				
Annual	1.14±0.15E-06	1.49±0.98E-09	-0.50±2.19E-10	3.61±3.93E-09
BFMWIDR (SE Farm)				
1st Quarter	1.51±0.21E-06	1.15±0.94E-09	-1.81±2.56E-10	-1.12±6.30E-09
2nd Quarter	**1.39±0.15E-06**	-5.51±5.74E-10	0.79±1.36E-10	2.30±2.67E-09
3rd Quarter	**1.54±0.24E-06**	**7.11±5.79E-10**	-0.90±1.48E-10	-4.09±5.94E-09
4th Quarter	1.51±0.18E-06	**1.34±1.15E-09**	-0.45±1.74E-10	-3.97±3.89E-09

Note: Bolding convention applied to these data.

TABLE E-2
2007 Radioactivity Concentrations in Venison

Location	% Moisture	H-3 (µCi/mL)	K-40 (µCi/g - dry)	Sr-90 (µCi/g - dry)	Cs-137 (µCi/g - dry)
Deer Background (BFDCTRL 11/07)	72.1	**1.20±1.05E-07**	**9.20±0.93E-06**	0.72±1.37E-09	2.21±2.18E-08
Deer Background (BFDCTRL 11/07)	73.8	-2.04±9.34E-08	**1.13±0.11E-05**	**2.44±1.61E-09**	**8.20±2.49E-08**
Deer Background (BFDCTRL 11/07)	73.7	3.49±9.66E-08	1.02±0.12E-05	-0.50±1.61E-09	2.91±3.17E-08
Deer Near-Site (BFDNEAR 10/07)	74.9	**1.25±1.06E-07**	**1.29±0.13E-05**	0.69±2.23E-09	3.52±2.75E-08
Deer Near-Site (BFDNEAR 10/07)	73.4	**1.69±1.12E-07**	**1.05±1.23E-06**	1.06±2.47E-09	**1.05±0.11E-06**
Deer Near-Site (BFDNEAR 12/07)	75.1	1.32±1.04E-07	1.19±0.10E-05	**4.27±2.19E-09**	1.48±1.60E-08

Note: Bolding convention applied to these data. See page E-1[60].

TABLE E-3
2007 Radioactivity Concentrations in Food Crops

Location	% Moisture	H-3 (µCi/mL)	K-40 (µCi/g - dry)	Co-60 (µCi/g - dry)	Sr-90 (µCi/g - dry)	Cs-137 (µCi/g - dry)
APPLES						
Background (BFVCTRA)	86.5	6.90±9.65E-08	9.20±0.98E-06	1.76±2.85E-08	2.21±0.36E-08	-0.53±2.07E-08
Near-Site (BFVNEAAF)	85.8	-0.34±1.05E-07	6.68±1.23E-06	-0.65±3.57E-08	-0.67±2.26E-09	0.72±2.97E-08
BEANS						
Background (BFVCTRB)	92.2	-0.70±1.00E-07	2.39±0.21E-05	5.27±4.07E-08	4.67±0.67E-08	-2.73±5.36E-08
Near-Site (BFVNEAB)	86.2	0.58±1.06E-07	2.22±0.19E-05	-0.23±2.21E-08	5.89±0.58E-08	1.68±2.01E-08
CORN						
Background (BFVCTRC)	75.0	-0.26±1.06E-07	1.05±0.10E-05	-0.81±1.44E-08	1.14±1.77E-09	0.62±1.29E-08
Near-Site (BFVNEAC)	79.6	1.37±1.09E-07	1.32±0.10E-05	0.40±1.55E-08	1.82±2.03E-09	0.70±1.66E-08

Note: Bolding convention not applicable to these data. See page E-1.

TABLE E-4
2007 Radioactivity Concentrations in Edible Portions of Fish From Cattaraugus Creek

Cattaraugus Creek above the Springville Dam (BFFCATC)

Annual 2007

Species	% Moisture	Sr-90 (µCi/g - dry)	Cs-137 (µCi/g - dry)
Hog-nosed Sucker	82.2	-1.11±3.66E-09	1.59±4.76E-08
Hog-nosed Sucker	81.6	-0.12±4.86E-09	-1.30±7.35E-08
Hog-nosed Sucker	81.6	-6.97±5.05E-09	-0.75±3.09E-08
Hog-nosed Sucker	83.0	-2.15±4.94E-09	**1.06±0.97E-07**
Hog-nosed Sucker	82.0	-4.85±6.57E-09	-5.14±4.73E-08
Hog-nosed Sucker	81.1	-7.68±6.02E-09	3.98±5.24E-08
White Sucker	81.7	**7.58±7.10E-09**	3.06±4.00E-08
White Sucker	82.3	5.87±7.47E-09	0.85±1.49E-07
Brown Trout	78.0	1.94±2.63E-09	0.00±5.72E-08
Brown Trout	79.3	6.37±9.22E-09	0.79±6.08E-08
Average % Moisture	81.3		
Median		<5.54E-09	<5.48E-08
Maximum		7.58E-09	1.06E-07
Minimum		<2.63E-09	<3.09E-08

Note: Bolding convention applied to these data. See page E-1[80].

TABLE E-4 *(continued)*
2007 Radioactivity Concentrations in Edible Portions of Fish From Cattaraugus Creek

Cattaraugus Creek below the Springville Dam (BFFCATD)

Annual 2007

Species	% Moisture	Sr-90 (µCi/g - dry)	Cs-137 (µCi/g - dry)
Steelhead Trout	85.3	1.86±2.74E-09	2.74±2.92E-08
Steelhead Trout	73.8	0.24±1.84E-09	-0.36±2.96E-08
Steelhead Trout	70.0	1.60±2.31E-09	0.97±2.87E-08
Steelhead Trout	75.0	-0.19±2.78E-09	1.04±1.42E-08
Steelhead Trout	74.4	1.06±2.40E-09	2.75±3.43E-08
Steelhead Trout	66.8	0.86±2.12E-09	2.19±2.49E-08
Steelhead Trout	74.9	-0.59±2.49E-09	1.47±2.08E-08
Steelhead Trout	77.9	3.67±2.95E-09	0.50±4.19E-08
Steelhead Trout	74.5	**6.34±3.06E-09**	0.00±2.64E-08
Steelhead Trout	70.8	-0.67±2.55E-09	2.27±3.41E-08
Average % Moisture	74.3		
Median		<2.52E-09	<2.90E-08
Maximum		6.34E-09	<4.19E-08
Minimum		<1.84E-09	<1.42E-08

Note: Bolding convention applied to these data. See page E-1.

TABLE E-4 *(concluded)*
2007 Radioactivity Concentrations in Edible Portions of Fish From Cattaraugus Creek

Cattaraugus Creek Background (BFFCTRL)

Annual 2007

Species	% Moisture	Sr-90 (µCi/g - dry)	Cs-137 (µCi/g - dry)
White Sucker	80.2	-5.53±6.36E-09	1.93±7.82E-08
Brown Trout	76.0	2.04±6.77E-09	0.00±1.36E-07
Brown Trout	86.4	-1.81±1.80E-09	**4.93±3.10E-08**
White Sucker	80.8	0.63±1.96E-09	2.33±3.53E-08
White Sucker	80.0	2.17±2.29E-09	0.26±2.22E-08
White Sucker	78.4	3.24±2.78E-09	-1.93±3.44E-08
White Sucker	78.5	**3.72±2.78E-09**	1.00±3.48E-08
White Sucker	78.1	3.12±2.66E-09	-0.12±4.29E-08
Hog-nosed Sucker	77.9	-0.51±2.19E-09	-5.35±8.85E-08
White Sucker	79.5	2.14±3.29E-09	-2.29±4.83E-08
Average % Moisture	79.6		
Median		<3.18E-09	<4.56E-08
Maximum		3.72E-09	4.93E-08
Minimum		<1.80E-09	<2.22E-08

Note: Bolding convention applied to these data. See page E-1[60].