

**LAKE ROOSEVELT FISHERIES MONITORING
PROGRAM**

Appendices for
1989 Annual Report

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APPENDIX A

**DAILY
RESERVOIR ELEVATIONS
AND
WATER RETENTION TIMES**

Table AI. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in January 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFS)	WATER RETENTION TIME (D)
1	86.90	96.10	1272.90	3926.00	40.85
2	78.90	121.10	1271.80	3885.60	32.09
3	91.20	129.50	1270.70	3845.40	29.69
4	76.40	129.00	1269.30	3794.60	29.42
5	83.10	130.00	1268.00	3747.70	28.83
6	88.20	122.20	1267.00	3747.70	30.67
7	97.10	106.00	1266.80	3704.80	34.95
8	101.20	135.10	1265.80	3669.20	27.16
9	101.40	122.70	1265.20	3647.90	29.73
10	114.20	96.50	1265.70	3665.60	37.99
11	132.30	127.00	1265.90	3672.70	28.92
12	119.10	119.10	1265.90	3672.70	30.84
13	121.10	110.40	1266.20	2683.40	24.31
14	120.60	86.60	1267.10	3715.50	42.90
15	131.50	106.40	1267.80	3740.60	35.16
16	121.40	83.60	1268.90	3780.20	45.22
17	110.50	88.80	1269.50	3801.80	42.81
18	111.20	122.00	1269.20	3791.00	31.07
19	111.80	119.00	1269.00	3783.80	31.80
20	107.80	118.60	1268.70	3772.90	31.81
21	111.60	111.60	1268.70	3772.90	33.81
22	105.40	110.80	1268.50	3765.70	33.99
23	103.40	80.00	1269.20	3791.00	47.39
24	96.30	80.00	1269.60	3805.50	47.57
25	102.60	98.90	1269.70	3809.10	38.51
26	94.30	116.00	1269.10	3787.40	32.65
27	94.80	102.00	1268.90	3780.20	37.06
28	99.10	106.30	1268.70	3772.90	35.49
29	92.50	106.90	1268.30	3758.50	35.16
30	97.40	104.60	1268.10	3751.30	35.86
31	106.10	98.90	1268.30	3758.50	38.00

Table A2. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in February 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	101.70	130.40	1267.50	3729.80	28.60
2	103.00	135.10	1266.60	3697.60	27.37
3	101.90	133.90	1265.70	3665.60	27.38
4	104.90	133.30	1264.90	3637.30	27.29
5	106.40	141.60	1263.90	3602.00	25.44
6	93.10	84.30	1264.20	3612.60	42.85
7	62.20	73.40	1264.40	3619.70	49.31
8	88.70	102.80	1264.00	3605.60	35.07
9	86.80	107.80	1263.40	3584.50	33.25
10	97.10	76.10	1264.00	3605.60	47.38
11	94.30	83.70	1264.30	3616.10	43.20
12	94.70	85.90	1264.60	3626.10	42.21
13	95.60	67.30	1265.40	3655.00	54.31
14	96.40	78.70	1265.90	3672.70	46.67
15	98.70	105.80	1265.70	3665.60	34.65
16	105.50	93.10	1266.00	3676.30	39.49
17	102.30	97.00	1266.20	3683.40	37.97
18	106.30	86.70	1266.70	3701.20	42.69
19	103.20	92.50	1267.00	3711.90	40.13
20	99.40	77.90	1267.60	3733.40	47.93
21	86.50	84.70	1267.70	3737.00	44.12
22	62.50	95.00	1267.30	3722.60	39.19
23	69.30	99.60	1266.50	3694.10	37.09
24	68.30	93.30	1265.80	3669.20	39.33
25	67.70	99.60	1264.90	3637.30	36.52
26	64.20	87.20	1264.20	3612.60	41.43
27	66.40	66.40	1264.20	3612.60	54.41
28	59.90	59.90	1264.20	3612.60	60.31
29	66.90	87.90	1263.60	3519.50	40.04

Table A3. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in March 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, O R .

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	60.20	95.10	1262.60	3556.50	37.40
2	63.60	93.20	1261.80	3526.60	37.86
3	66.50	89.00	1261.10	3504.30	39.37
4	57.50	93.70	1260.10	3469.80	37.03
5	60.80	95.20	1259.10	3435.40	36.09
6	66.00	77.90	1258.70	3421.80	43.93
7	62.80	78.10	1258.30	3408.10	43.64
8	70.60	75.90	1256.10	3401.30	44.81
9	66.50	97.30	1257.30	3374.20	34.68
10	68.50	83.70	1256.80	3357.30	40.11
11	67.30	79.10	1256.50	3347.20	42.32
12	63.30	71.70	1256.20	3337.10	46.54
13	64.40	56.00	1256.50	3347.20	59.77
14	73.80	65.50	1256.10	3333.70	38.99
15	56.50	61.70	1255.40	3310.30	40.52
16	58.10	76.50	1254.60	3290.30	43.01
17	60.40	80.40	1254.20	3270.30	40.68
18	64.60	85.50	1253.60	3250.50	38.02
19	59.20	64.30	1253.40	3243.90	50.45
20	50.90	51.10	1253.30	3240.60	63.42
21	65.70	89.30	1252.60	3217.60	36.03
22	59.00	78.10	1251.90	3194.60	40.90
23	56.40	102.30	1250.40	3145.90	30.75
24	58.90	100.70	1249.10	3104.10	30.83
25	63.30	103.20	1247.80	3062.60	29.68
26	52.30	94.60	1246.80	3024.60	31.97
27	60.10	80.10	1245.90	3002.60	37.49
28	62.50	88.10	1245.00	2974.40	33.76
29	67.10	95.50	1243.90	2940.20	30.79
30	63.60	81.20	1243.20	2918.60	35.94
31	62.80	78.60	1242.60	2900.10	36.90

Table A4. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in April 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCF/S)	OUTFLOW (KCF/S)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	66.00	81.70	1241.90	2878.70	35.24
2	64.60	62.90	1241.80	2875.60	45.72
3	72.90	47.40	1242.50	2897.10	61.12
4	67.30	71.90	1242.10	2884.80	40.12
5	65.60	67.10	1241.80	2875.60	42.86
6	71.20	86.30	1241.80	2875.60	43.37
7	85.00	81.90	1241.70	2872.60	35.07
8	84.30	67.50	1242.00	2881.80	42.69
9	90.00	51.70	1243.00	2912.40	56.33
10	91.90	30.10	1244.70	2965.10	98.51
11	97.00	59.60	1245.70	2996.30	50.27
12	99.90	74.90	1246.20	3012.00	40.21
13	99.00	91.30	1246.20	3012.00	32.99
14	99.50	82.30	1246.50	3021.40	36.71
15	109.10	57.10	1247.90	3065.70	53.69
16	112.60	48.90	1249.70	3123.30	63.87
17	115.30	41.00	1251.70	3188.10	77.76
18	134.50	67.40	1253.60	3250.50	48.23
19	134.90	47.00	1256.00	3330.40	70.66
20	136.50	53.70	1258.20	3404.70	63.40
21	135.10	57.90	1260.20	3473.20	59.99
22	137.20	69.80	1261.90	3532.10	50.60
23	133.10	51.10	1264.00	3605.60	70.56
24	129.40	46.40	1266.10	3679.80	79.31
25	103.10	76.30	1266.70	3701.20	48.51
26	102.70	68.10	1267.50	3729.80	54.77
27	91.20	72.60	1267.80	3740.50	51.52
28	91.60	71.20	1268.20	3754.90	52.74
29	84.10	85.70	1268.00	3747.70	43.73
30	81.40	86.10	1267.70	3737.00	43.40

Table A5. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in May 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	75.20	63.80	1267.90	3744.20	58.69
2	87.00	109.60	1267.10	3715.50	33.90
3	78.80	87.30	1266.70	3701.20	42.40
4	70.20	56.80	1267.00	3711.90	65.35
5	78.70	49.70	1267.60	3733.40	75.12
6	77.20	42.60	1268.40	3762.10	88.31
7	73.60	54.90	1268.80	3776.50	68.79
8	78.50	52.50	1269.30	3794.60	72.28
9	93.20	120.50	1268.40	3762.10	31.22
10	100.10	119.40	1267.60	3733.40	31.27
11	103.90	135.60	1266.50	3694.10	27.24
12	102.90	111.40	1266.10	3679.80	33.03
13	113.90	113.40	1265.90	3672.70	32.39
14	130.50	98.00	1266.60	3697.60	37.73
15	124.50	100.80	1267.00	3711.90	36.82
16	118.30	96.20	1267.40	3726.20	37.95
17	117.80	99.10	1267.70	3737.00	37.71
18	130.70	115.90	1267.90	3744.20	32.31
19	123.70	116.20	1267.90	3744.20	32.22
20	125.70	111.00	1268.10	3751.30	33.80
21	122.00	101.90	1268.50	3765.70	36.95
22	115.90	74.00	1269.40	3798.20	51.33
23	120.90	122.30	1269.20	3791.00	31.00
24	114.50	121.30	1268.80	3776.50	31.13
25	103.50	104.90	1268.50	3765.70	35.90
26	106.60	82.80	1269.00	3783.80	45.70
27	108.00	93.10	1269.20	3791.00	40.72
28	106.30	67.90	1270.00	3820.00	56.26
29	117.80	66.40	1271.20	3863.70	58.19
30	116.30	79.40	1272.00	3892.90	49.03
31	110.70	121.30	1271.50	3874.60	31.94

Table A6. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in June 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir- Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	112.90	138.10	1270.60	3841.80	27.82
2	112.20	137.30	1269.70	3809.10	27.74
3	105.70	123.40	1269.00	3783.80	30.66
4	107.90	78.60	1269.60	3805.50	48.42
5	103.10	75.50	1270.20	3827.20	50.69
6	104.40	113.80	1269.70	3801.10	33.40
7	105.10	111.60	1269.40	3798.20	34.03
8	108.80	102.50	1269.30	3794.60	37.02
9	97.50	112.10	1268.80	3776.50	33.69
10	99.60	82.40	1269.10	3787.40	45.96
11	97.80	53.40	1270.20	3827.20	71.87
12	89.90	45.20	1271.30	3867.30	85.56
13	94.40	86.10	1271.40	3871.00	44.96
14	96.70	81.60	1271.70	3882.00	47.57
15	96.60	92.80	1271.60	3878.30	41.79
16	92.70	87.20	1271.50	3874.60	44.43
17	91.50	75.00	1271.80	3885.60	51.81
18	106.10	45.40	1273.20	3937.10	86.72
19	120.60	46.40	1275.00	4003.90	86.29
20	123.60	94.70	1275.60	4026.30	42.52
21	116.70	98.30	1275.80	4003.80	40.73
22	102.00	113.70	1275.30	4015.10	35.31
23	98.80	103.00	1274.90	4000.20	38.84
24	117.90	92.20	1275.40	4018.80	43.59
25	128.70	52.30	1277.20	4086.40	78.13
28	118.70	58.60	1278.50	4135.60	70.57
27	123.60	86.10	1279.30	4166.10	48.39
28	120.30	94.20	1279.70	4161.40	44.39
29	124.20	69.70	1280.90	4227.40	60.65

Table A7. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in July 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	121.90	81.70	1282.50	4289.50	52.50
2	118.80	56.60	1283.90	4344.60	76.76
3	107.20	40.30	1285.30	4400.20	109.19
4	95.00	53.80	1286.10	4432.30	82.38
5	85.10	90.30	1285.80	4420.20	48.95
6	80.80	72.90	1285.80	4420.20	60.63
7	87.60	77.70	1285.80	4420.20	56.89
8	85.70	89.90	1285.50	4420.20	49.17
9	86.40	62.60	1265.90	4424.20	70.67
10	81.00	51.00	1286.50	4448.40	87.22
11	72.70	107.00	1285.40	4404.20	41.16
12	70.20	86.30	1284.80	4380.30	50.76
13	71.00	81.70	1284.40	4364.40	53.42
14	73.00	74.00	1284.20	4356.40	58.87
15	67.80	75.80	1283.80	4340.60	57.26
16	76.20	58.50	1284.00	4348.50	74.33
17	88.10	70.40	1284.30	4360.40	61.94
18	94.80	96.90	1284.00	4346.50	44.88
19	89.70	95.80	1283.70	4336.70	45.27
20	88.50	92.60	1283.40	4324.80	46.70
21	85.70	99.50	1282.80	4301.30	43.23
22	82.80	88.70	1282.50	4289.50	48.36
23	87.00	55.80	1283.10	4313.10	77.30
24	67.20	49.60	1283.30	4320.90	87.11
25	63.20	81.00	1282.70	4297.40	53.05
26	62.50	80.20	1282.00	4270.10	53.24
27	57.70	71.40	1281.50	4250.60	59.53
28	57.60	61.50	1281.20	4239.00	68.93
29	58.30	66.00	1280.80	4223.60	63.99
30	61.30	53.60	1280.80	4223.60	78.80
31	74.10	43.20	1281.40	4246.80	98.31

Table A8. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in August 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	95.90	76.60	1281.70	4258.40	55.59
2	94.30	73.00	1282.00	4270.10	58.49
3	93.60	80.10	1282.20	4227.80	52.78
4	90.60	84.80	1282.10	4273.90	50.40
5	91.20	83.50	1282.10	4273.90	51.18
8	88.40	55.30	1282.80	4301.30	77.78
7	97.30	56.20	1283.60	4332.70	77.09
8	108.80	81.90	1284.10	4352.50	53.14
9	97.90	84.20	1284.30	4360.40	51.79
10	107.40	87.60	1284.60	4372.30	49.91
11	102.30	78.60	1285.00	4388.20	55.83
12	101.40	75.60	1265.40	4404.20	58.26
13	90.70	46.80	1286.30	4440.30	90.99
14	79.70	37.70	1287.10	4472.70	118.64
15	79.20	77.50	1287.00	4468.60	57.66
16	79.60	80.80	1286.80	4460.50	55.20
17	78.90	72.50	1286.80	4460.50	61.52
18	80.10	79.70	1286.60	4452.40	55.86
19	83.00	92.80	1286.20	4436.30	47.80
20	74.60	62.20	1286.40	4444.40	71.45
21	78.90	42.20	1287.10	4472.70	105.99
22	81.80	95.70	1286.60	4452.40	46.52
23	84.60	88.30	1286.40	4444.40	50.33
24	83.10	94.90	1285.90	4424.20	46.62
25	80.20	109.80	1285.00	4388.20	39.97
26	78.10	89.20	1284.60	4372.30	49.02
27	85.80	70.80	1284.70	4376.30	61.81
28	80.60	63.50	1284.90	4384.20	69.04
29	89.40	90.30	1284.70	4376.30	48.46
30	95.20	86.80	1284.80	4380.30	50.46
31	91.80	87.40	1284.70	4376.30	50.07

Table A9. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in September 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	88.10	91.70	1284.50	4368.30	47.64
2	86.80	106.30	1283.80	4340.60	40.83
3	83.90	97.30	1263.30	4320.90	44.41
4	74.00	80.60	1282.90	4305.20	53.41
5	77.50	74.20	1282.80	4301.30	57.97
6	89.60	98.60	1282.40	4285.60	43.46
7	105.70	99.80	1282.40	4285.60	42.94
8	113.70	97.90	1282.60	4293.50	43.86
9	114.00	81.60	1283.30	4320.90	52.95
10	108.10	46.60	1284.70	4376.30	93.91
11	96.10	60.20	1285.50	4408.20	73.23
12	85.30	123.20	1284.50	4368.30	35.46
13	88.50	78.50	1284.60	4372.30	55.70
14	90.20	88.10	1284.60	4372.30	49.63
15	93.20	89.20	1284.50	4368.30	48.97
16	92.20	90.60	1284.40	4384.40	48.17
17	87.70	81.20	1284.40	4364.40	53.75
18	77.00	72.30	1284.40	4364.40	60.37
19	70.30	97.60	1283.60	4332.70	44.39
20	73.40	74.90	1283.50	4328.80	57.79
21	71.80	77.20	1283.20	4317.00	55.92
22	69.70	80.90	1282.80	4301.30	53.17
23	75.30	91.40	1282.30	4281.70	46.85
24	69.90	74.90	1282.10	4273.90	57.06
25	80.90	48.80	1282.90	4305.20	88.22
26	88.10	98.90	1282.50	4289.50	43.37
27	83.00	82.20	1282.50	4289.50	52.18
28	84.90	68.50	1282.80	4301.30	62.79
29	89.20	74.60	1283.10	4313.10	57.82
30	90.60	72.00	1283.50	4328.80	60.12

Table A10. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in October 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCF/S)	OUTFLOW (KCF/S)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	82.90	46.40	1284.40	4364.40	94.06
2	66.10	45.40	1285.30	4400.20	96.92
3	90.30	85.50	1285.40	4404.20	51.51
4	66.20	79.40	1285.50	4408.20	55.52
5	69.90	81.10	1285.60	4412.20	54.40
6	64.00	81.10	1285.60	4412.20	54.40
7	79.70	86.80	1285.40	4404.20	50.74
8	75.70	70.90	1285.40	4404.20	62.12
9	80.20	61.40	1285.80	4420.20	71.99
10	87.70	80.90	1285.90	4424.20	54.69
11	75.50	80.70	1285.70	4416.20	54.72
12	81.70	82.90	1285.60	4412.20	53.22
13	77.20	76.30	1285.50	4408.20	56.30
14	91.70	84.80	1285.60	4412.20	52.03
15	89.20	46.20	1286.60	4452.40	96.37
16	95.90	48.40	1287.70	4497.00	92.91
17	111.40	92.20	1288.10	4513.40	48.95
18	87.70	95.10	1287.90	4505.20	47.37
19	101.90	86.80	1288.20	4517.50	52.04
20	92.00	83.00	1288.30	4521.50	54.48
21	85.70	84.80	1288.30	4521.50	53.32
22	76.00	56.70	1288.70	4537.90	80.03
23	44.40	64.10	1288.10	4513.40	70.41
24	45.10	92.00	1286.90	4464.60	48.53
25	50.10	97.20	1285.70	4416.20	45.43
26	60.50	92.50	1284.90	4384.20	47.40
27	77.80	105.60	1284.20	4356.40	41.25
28	76.50	102.20	1283.60	4332.70	42.39
29	63.20	90.30	1282.90	4305.20	47.68
30	72.10	47.10	1283.50	4328.80	91.91
31	83.70	80.30	1283.50	4328.80	53.91

Table All. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in November 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	73.70	82.20	1283.30	4320.90	52.57
2	81.30	86.40	1283.10	4313.10	49.92
3	86.90	86.90	1283.10	4313.10	49.63
4	94.50	88.50	1283.30	4320.90	48.82
5	99.40	65.90	1284.10	4352.50	66.05
6	103.60	53.70	1285.40	4404.20	82.01
7	109.20	87.20	1285.90	4424.20	50.74
8	108.00	96.00	1286.20	4436.30	46.21
9	108.70	96.60	1286.50	4448.40	46.05
10	89.50	89.50	1288.50	4448.40	49.70
11	79.10	87.10	1266.30	4440.30	50.98
12	75.50	63.50	1286.60	4452.40	70.12
13	83.90	67.80	1287.00	4468.60	65.91
14	88.30	110.40	1286.50	4448.40	40.29
15	87.90	106.00	1286.00	4428.30	41.78
16	67.70	105.70	1285.60	4412.20	41.74
17	83.60	109.60	1284.90	4384.20	40.00
18	65.60	113.50	1284.20	4356.40	38.38
19	81.30	97.20	1283.80	4340.60	44.66
20	77.60	79.60	1283.80	4340.60	54.53
21	86.40	108.10	1283.20	4317.00	39.94
22	75.90	95.40	1282.70	4297.40	45.05
23	63.80	106.40	1281.60	4254.50	39.99
24	54.10	81.30	1280.90	4227.40	52.00
25	53.30	101.30	1279.70	4181.40	41.28
26	47.30	89.10	1278.60	4139.40	46.46
27	50.10	74.80	1277.90	4112.90	54.99
28	68.30	109.70	1276.80	4071.30	37.11
29	70.50	111.80	1275.70	4003.90	35.81
30	73.50	121.90	1274.40	3981.60	32.66

Table A12. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in December 1988. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	74.10	127.80	1272.90	3926.00	30.72
2	80.70	128.40	1271.60	3878.30	30.20
3	70.10	117.50	1270.30	3830.90	32.60
4	66.90	115.80	1269.00	3783.80	32.68
5	67.80	116.30	1267.60	3733.40	32.10
6	79.60	117.10	1266.60	3697.60	31.58
7	90.80	131.70	1265.40	3655.00	27.75
8	85.60	135.00	1264.00	3605.60	26.71
9	85.70	117.20	1263.10	3574.00	30.49
10	74.50	92.00	1262.60	3556.50	38.66
11	87.90	68.70	1263.20	3577.50	52.07
12	96.80	112.50	1262.70	3560.00	31.64
13	95.60	123.70	1261.90	3532.10	28.55
14	98.70	126.40	1261.10	3504.30	27.72
15	97.70	139.10	1259.90	3462.90	24.90
18	97.50	148.90	1258.40	3411.50	22.91
17	96.90	127.50	1257.50	3380.90	26.52
18	103.00	111.50	1257.30	3374.20	30.26
19	113.50	125.40	1256.90	3360.60	26.80
20	107.30	132.50	1256.20	3337.10	25.19
21	109.40	137.90	1255.30	3306.90	23.98
22	110.50	138.80	1254.50	3280.30	23.63
23	107.00	105.40	1254.50	3280.30	31.12
24	103.00	81.30	1255.20	3303.60	40.63
25	101.00	82.60	1255.70	3320.30	40.20
26	102.90	123.00	1255.10	3300.30	26.83
27	99.60	141.10	1253.90	3260.40	23.11
28	101.80	147.90	1252.50	3214.30	21.73
29	107.40	136.80	1251.80	3184.90	23.28
30	99.20	99.20	1251.60	3184.90	32.11
31	108.10	96.70	1251.90	3194.60	33.04

Table A13. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in January 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	101.00	101.00	1251.90	3194.60	31.63
2	111.60	96.90	1252.40	3211.00	33.14
3	117.90	131.00	1252.00	3151.90	24.06
4	105.60	130.00	1251.20	3171.80	24.40
5	109.40	145.00	1250.10	3136.20	21.63
6	110.70	154.00	1248.80	3094.40	20.09
7	107.40	152.00	1247.40	3049.90	20.07
8	99.70	145.50	1245.90	3002.60	20.64
9	102.70	144.90	1244.60	2961.90	20.44
10	107.40	149.10	1243.20	2918.60	19.57
11	105.40	142.30	1242.00	2881.60	20.25
12	116.10	99.20	1242.60	2900.10	29.23
13	113.90	129.20	1242.10	2884.80	22.33
14	115.40	118.50	1242.00	2881.80	24.32
15	108.00	69.60	1243.20	2918.60	41.93
16	118.70	103.30	1243.70	2934.00	28.40
17	109.40	106.30	1243.80	2937.10	27.63
18	117.80	102.40	1244.30	2952.60	28.83
19	112.60	95.50	1244.90	2971.30	31.11
20	119.00	106.50	1245.30	2983.80	28.02
21	115.00	60.00	1247.00	3037.20	50.62
22	100.10	81.10	1247.60	3056.20	37.68
23	104.40	129.80	1246.80	3030.90	23.35
24	103.10	114.10	1246.50	3021.40	26.48
25	103.50	119.30	1246.00	3005.70	25.19
26	102.00	122.30	1245.30	2983.80	24.40
27	103.30	122.00	1244.70	2965.10	24.30
28	95.60	97.20	1244.70	2965.10	30.51
29	91.90	90.40	1244.70	2965.10	32.80
30	80.80	116.40	1243.60	2930.90	25.18
31	80.70	123.80	1242.20	2889.90	23.34

Table A14. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in February 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	82.60	148.00	1240.00	2821.00	19.06
2	90.30	145.60	1238.20	2767.20	19.01
3	110.00	160.10	1236.50	2717.00	16.97
4	111.70	139.40	1235.50	2687.80	19.28
5	99.30	116.10	1234.90	2670.40	22.61
6	101.70	97.40	1235.00	2673.30	27.45
7	96.20	132.20	1233.80	2638.80	19.96
8	92.20	113.60	1233.00	2615.90	23.03
9	90.30	87.50	1233.10	2618.80	29.93
10	86.00	114.30	1232.10	2590.40	22.66
11	70.50	94.40	1231.30	2567.90	27.20
12	79.80	96.60	1230.70	2579.10	26.70
13	86.40	111.50	1229.80	2526.10	22.66
14	85.10	98.80	1229.30	2512.30	25.43
15	81.40	104.70	1228.40	2487.60	23.76
16	80.60	114.60	1227.20	2454.90	21.42
17	81.00	103.90	1226.30	2430.70	23.39
18	68.50	95.20	1225.30	2404.00	25.25
19	86.30	69.00	1226.00	2422.60	35.11
20	96.70	64.60	1226.40	2433.40	28.76
21	91.40	83.40	1226.70	2441.40	29.27
22	94.20	72.60	1227.50	2483.00	34.20
23	99.30	77.50	1228.30	2484.80	32.06
24	93.10	68.40	1229.20	2509.50	36.69
25	90.30	54.30	1230.50	2545.50	46.88
26	86.90	60.30	1231.50	2573.30	42.67
27	76.90	96.50	1230.80	2553.90	26.47
28	83.60	90.60	1230.50	2545.50	28.10

Table A15. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in March 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	79.90	120.00	1229.10	2506.80	20.89
2	87.60	117.80	1228.00	2476.60	21.02
3	82.30	102.60	1227.20	2454.90	23.93
4	78.20	84.90	1227.00	2449.50	28.85
5	70.40	62.30	1227.30	2457.60	39.45
6	66.50	62.50	1227.40	2460.30	39.36
7	51.10	68.60	1226.80	2444.10	35.63
8	49.80	56.50	1226.50	2436.10	43.12
9	56.70	52.60	1266.70	2441.40	46.41
10	66.40	56.80	1227.00	2449.50	43.13
11	56.90	55.50	1227.10	2452.20	44.18
12	48.80	55.50	1226.80	2444.10	44.04
13	55.50	78.30	1226.00	2422.60	30.94
14	49.60	61.60	1225.50	2409.30	39.11
15	52.50	53.80	1225.50	2409.30	44.78
16	50.20	62.10	1225.00	2396.00	38.58
17	58.70	56.00	1225.10	2398.70	42.83
18	54.00	46.00	1225.40	2406.60	52.32
19	54.80	36.10	1226.10	2425.30	67.18
20	54.70	62.80	1225.80	2417.30	38.49
21	53.10	75.70	1225.00	2396.00	31.65
22	55.90	81.00	1224.00	2369.60	29.25
23	57.80	74.70	1223.40	2353.90	31.51
24	51.50	64.50	1229.00	2504.00	38.82
25	53.80	52.50	1222.90	2340.90	44.59
26	45.10	47.70	1222.80	2338.30	49.02
27	49.20	68.60	1222.10	2320.20	33.82
28	60.70	69.70	1221.70	2309.90	33.14
29	61.40	74.20	1221.20	2297.10	30.96
30	58.30	71.10	1220.70	2284.30	32.13
31	66.80	61.80	1220.90	2289.40	37.05

Table A16. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in April 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir- Control Center, Portland, O R .

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	60.00	51.00	1221.30	2299.60	45.09
2	64.30	50.20	1221.80	2312.50	46.07
3	65.90	64.60	1221.90	2315.00	35.84
4	75.70	69.30	1222.10	2320.20	33.48
5	71.10	71.10	1222.10	2320.20	32.63
6	70.90	77.20	1221.90	2340.90	30.32
7	70.70	61.70	1222.20	2322.80	37.65
8	77.90	46.80	1223.40	2353.90	50.30
9	84.20	30.20	1225.50	2409.30	79.78
10	89.20	52.80	1226.80	2444.10	46.29
11	88.70	65.20	1227.70	2468.50	37.88
12	90.20	75.20	1228.20	2482.10	33.01
13	90.10	65.90	1229.10	2506.80	38.04
14	90.50	69.10	1229.70	2523.30	36.52
15	93.80	72.10	1230.20	2537.20	35.19
16	96.20	44.90	1231.80	2582.00	57.51
17	99.50	87.10	1232.10	2590.40	29.74
18	103.20	90.70	1232.30	2596.10	28.62
19	104.40	77.60	1233.00	2615.90	33.71
20	109.80	79.80	1233.80	2638.60	33.07
21	110.60	81.90	1234.60	2661.80	32.50
22	125.30	68.00	1236.30	2711.10	39.87
23	139.90	55.10	1238.90	2788.00	50.60
24	137.00	99.70	1239.90	2818.00	28.26
25	137.10	120.50	1240.20	2827.10	23.46
26	136.70	136.30	1240.00	2821.00	20.70
27	135.40	127.70	1240.00	2821.00	22.09
28	133.90	121.10	1240.20	2827.10	23.35
29	121.90	88.00	1241.10	2854.30	32.44
30	128.10	118.50	1241.10	2854.30	24.09

Table A17. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in May 1989. Data from daily summary reports prepared by, the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCF/S)	OUTFLOW (KCF/S)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	121.60	140.10	1240.30	2830.10	20.20
2	124.50	124.50	1240.20	2827.10	22.71
3	130.90	123.80	1240.30	2830.10	22.86
4	124.30	129.30	1239.90	2818.00	21.79
5	130.80	139.30	1239.40	2803.00	20.12
6	136.20	107.20	1240.10	2824.10	26.34
7	140.10	69.70	1242.10	2884.80	41.39
8	149.10	125.60	1242.60	2900.10	23.09
9	143.40	118.30	1243.20	2918.60	24.67
10	156.40	120.30	1244.10	2946.40	24.49
11	169.60	101.60	1246.00	3005.70	29.58
12	167.90	102.30	1247.90	3065.70	29.97
13	158.70	105.50	1249.30	3110.50	29.48
14	156.80	115.90	1250.30	3142.70	27.12
15	151.70	145.30	1250.20	3139.40	21.61
16	150.00	145.00	1250.10	3136.20	21.63
17	150.10	151.60	1249.80	3126.50	20.62
18	144.40	163.00	1249.00	3100.80	19.02
19	141.00	149.90	1248.40	3081.70	20.56
20	134.80	134.20	1248.20	3075.30	22.92
21	147.20	122.90	1248.70	3091.20	25.15
22	143.40	141.60	1248.50	3084.90	21.79
23	141.40	166.60	1247.40	3049.90	16.31
24	134.80	161.40	1246.30	3015.10	18.68
25	132.50	132.30	1246.10	3008.80	22.74
26	128.50	125.10	1245.90	3002.60	24.00
27	132.20	135.00	1245.60	2993.10	22.17
28	126.20	132.20	1245.10	2977.50	22.52
29	128.00	104.20	1245.60	2993.10	28.72
30	128.60	133.00	1245.20	2980.60	22.41
31	129.20	130.50	1244.90	2971.30	22.77

Table A18. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in June 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, O k .

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (DCFSD)	WATERRETENTION TIME (D)
1	133.30	117.40	1245.20	2980.60	25.39
2	130.70	116.00	1245.40	2986.90	25.75
3	139.50	106.00	1246.20	3012.00	28.42
4	129.00	76.20	1247.60	3056.20	40.11
5	120.60	116.90	1247.40	3049.90	26.09
6	126.40	112.60	1247.60	3056.20	27.14
7	127.50	107.50	1248.00	3068.90	28.55
8	146.20	125.50	1248.40	3081.70	24.56
9	145.10	102.10	1249.50	3116.90	30.53
10	146.80	96.20	1250.80	3158.80	32.84
11	141.70	85.80	1252.30	3207.70	37.39
12	136.60	125.00	1252.40	3211.00	25.69
13	138.10	131.30	1252.40	3211.00	24.46
14	137.70	116.50	1252.90	3227.40	27.70
15	146.00	89.40	1254.30	3273.60	36.62
16	153.20	54.10	1257.00	3364.00	62.18
17	154.20	37.80	1260.20	3473.20	91.88
18	158.30	40.00	1263.30	3581.00	89.53
19	153.80	77.90	1265.20	3647.90	46.83
20	144.70	69.80	1267.10	3715.50	53.23
21	142.80	63.70	1269.00	3783.80	59.40
22	125.70	69.30	1270.30	3830.90	55.28
23	121.90	72.60	1271.40	3871.00	53.32
24	115.40	52.90	1272.90	3926.00	74.22
25	108.60	49.30	1274.20	3974.10	80.61
26	90.00	86.20	1274.10	3970.40	46.06
27	98.20	72.90	1274.50	3985.30	54.67
28	90.00	65.80	1274.90	4000.20	60.79
29	78.50	72.90	1274.80	3996.50	54.82
30	88.00	86.20	1274.60	3989.00	46.28

Table A19. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in July 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir- Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	81.40	64.70	1274.80	3996.50	61.77
2	98.70	40.80	1276.10	4045.00	99.14
3	104.10	62.70	1277.00	4079.90	65.07
4	106.90	46.50	1278.30	4128.00	88.77
5	113.30	77.20	1279.00	4154.60	53.82
6	94.60	83.30	1279.10	4158.50	49.92
7	82.80	86.70	1278.70	4143.20	47.79
8	85.90	70.70	1278.90	4150.80	58.71
9	81.30	56.70	1279.30	4166.10	73.48
10	85.20	81.80	1279.10	4158.50	50.84
11	76.10	97.10	1278.30	4128.00	42.51
12	75.20	77.20	1278.00	4116.70	53.33
13	67.90	71.70	1276.70	4067.60	56.73
14	78.20	61.30	1277.90	4112.90	67.09
15	79.50	37.80	1278.70	4143.20	109.61
16	86.30	38.80	1279.70	4181.40	107.77
17	73.20	69.50	1279.60	4177.50	60.11
18	75.90	66.50	1279.60	4177.50	62.82
19	76.30	72.60	1279.40	4169.90	57.44
20	78.80	67.60	1279.50	4173.70	61.74
21	74.80	74.90	1279.20	4162.30	55.57
22	66.00	45.10	1279.50	4173.70	92.54
23	55.00	45.60	1279.50	4173.70	91.53
24	58.20	71.60	1278.90	4150.80	57.97
25	65.10	74.30	1278.50	4135.60	55.66
26	67.80	63.80	1278.40	4131.80	64.76
27	66.50	60.30	1278.40	4131.80	68.52
28	70.70	62.90	1278.40	4131.80	65.69
29	66.30	45.30	1278.70	4143.20	91.46
30	65.60	42.70	1279.10	4158.50	97.39
31	64.80	62.80	1279.00	4154.60	66.16

Table A20. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in August 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	50.90	54.70	1278.70	4147.00	75.81
2	38.90	55.60	1278.00	4116.70	74.04
3	49.50	60.80	1277.50	4097.70	67.40
4	51.80	70.60	1276.80	4071.30	57.67
5	60.50	52.80	1276.80	4071.30	77.11
6	68.50	53.40	1277.00	4078.90	76.38
7	84.70	68.40	1277.30	4090.20	59.80
8	86.50	71.30	1277.50	4097.70	57.47
9	84.30	63.40	1277.80	4109.10	64.81
10	90.00	59.50	1278.40	4131.80	69.44
11	90.80	62.30	1279.00	4154.60	66.69
12	85.10	56.50	1279.50	4173.70	73.87
13	82.10	55.30	1280.00	4192.80	75.82
14	82.10	74.60	1280.00	4192.80	56.20
15	79.20	71.50	1280.00	4192.80	58.64
16	75.30	67.70	1280.00	4192.80	61.93
17	87.80	76.10	1280.10	4196.70	55.15
18	80.80	66.60	1280.30	4204.30	63.13
19	79.60	47.00	1280.90	4227.40	89.94
20	78.00	51.00	1281.40	4246.80	83.27
21	73.80	60.30	1281.60	4254.50	70.56
22	77.00	47.20	1282.20	4277.80	90.63
23	72.40	54.60	1282.50	4289.50	78.56
24	81.20	57.60	1282.90	4305.20	74.74
25	85.30	53.70	1283.60	4332.70	80.68
26	85.90	42.20	1284.50	4368.30	103.51
27	89.00	41.80	1285.60	4412.20	105.56
28	90.30	65.50	1286.10	4432.30	67.67
29	74.10	63.30	1286.20	4436.30	70.08
30	81.20	80.40	1286.10	4432.30	55.13
31	66.20	69.40	1285.90	4424.20	63.75

Table A21. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in September 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFSD)	WATER RETENTION TIME (D)
1	56.00	69.20	1265.50	4408.20	63.70
2	61.10	54.30	1285.50	4408.20	81.18
3	69.90	53.10	1285.80	4420.20	83.24
4	69.20	62.40	1285.90	4424.20	70.90
5	72.30	79.50	1285.60	4412.20	55.50
6	64.50	63.80	1285.50	4408.20	69.09
7	76.70	77.90	1285.30	4400.20	56.49
8	72.30	55.50	1285.60	4412.20	79.50
9	78.90	41.90	1286.40	4444.40	106.07
10	62.00	38.80	1287.40	4484.80	115.59
11	84.30	73.40	1287.50	4488.90	61.16
12	80.20	79.30	1287.40	4484.80	56.55
13	75.40	62.50	1287.60	4493.00	71.89
14	73.70	73.00	1287.50	4488.90	61.49
15	67.80	67.00	1287.40	4484.80	66.94
16	67.90	55.00	1287.60	4493.00	81.69
17	54.90	50.10	1287.60	4493.00	89.68
18	58.90	74.50	1287.10	4472.70	60.04
19	55.10	50.60	1287.10	4472.70	88.39
20	61.40	69.50	1286.80	4460.50	64.18
21	68.60	67.90	1286.70	4456.50	65.63
22	71.50	74.80	1286.50	4448.40	59.47
23	66.10	53.30	1266.70	4456.50	83.61
24	91.60	44.10	1287.80	4501.10	102.07
25	75.20	84.70	1287.40	4484.80	52.95
26	77.90	87.40	1287.10	4472.70	51.18
27	77.50	84.90	1286.80	4460.50	52.54
28	77.20	80.50	1286.60	4452.40	55.31
29	68.80	72.10	1286.40	4444.40	61.64
30	72.40	55.50	1286.70	4456.50	80.30

Table A22. Daily midnight reservoir elevation, storage capacity, inflow, outflow and water retention time for Lake Roosevelt (Grand Coulee Reservoir) in October 1989. Data from daily summary reports prepared by the U.S. Army Corps of Engineers, Reservoir Control Center, Portland, OR.

DAY OF MONTH	INFLOW (KCFS)	OUTFLOW (KCFS)	RESERVOIR ELEVATION (FT)	STORAGE CAPACITY (KCFS)	WATER RETENTION TIME (D)
1	82.40	61.50	1287.10	4472.70	72.73
2	79.70	93.00	1286.60	4452.40	47.88
3	81.30	80.50	1286.50	4448.40	55.26
4	82.10	81.30	1286.40	4444.40	54.67
5	81.60	64.70	1286.70	4456.50	68.88
6	84.20	75.40	1286.80	4460.50	59.16
7	77.10	60.10	1287.10	4472.70	74.42
8	77.80	44.60	1287.80	4501.10	100.92
9	79.40	80.80	1287.70	4497.00	55.66
10	79.80	89.40	1287.30	4480.80	50.12
11	75.00	84.00	1287.00	4468.60	53.20
12	73.90	68.70	1287.10	4472.70	65.10
13	76.40	66.50	1287.30	4480.80	67.38
14	74.00	53.70	1287.80	4501.10	83.82
15	89.70	52.80	1288.60	4533.80	85.87
16	84.60	93.70	1288.30	4521.50	48.26
17	86.10	67.20	1288.70	4537.90	67.53
18	64.20	81.00	1288.70	4537.90	56.02
19	80.90	77.70	1288.70	4537.90	56.40
20	69.50	78.50	1288.50	4529.70	57.70
21	67.80	57.50	1288.70	4537.90	78.92
22	78.70	72.50	1288.90	4546.20	62.71
23	71.40	97.30	1288.20	4517.50	46.43
24	83.20	79.10	1288.30	4521.50	57.16
25	77.40	75.40	1288.40	4525.60	60.02
26	80.40	84.50	1288.30	4521.50	53.51
27	88.90	88.90	1288.30	4521.50	50.86
28	84.20	71.90	1288.60	4533.80	63.06
29	90.70	64.00	1289.20	4558.50	71.23
30	90.00	98.30	1289.00	4550.30	46.29
31	92.30	84.10	1289.20	4558.50	54.20

APPENDIX B

**LAKE ROOSEVELT
CREEL SURVEY
DATA**

Table B1. Location codes for areas surveyed in the northern, middle, southern and Spokane arm designated areas of Lake Roosevelt.

LOCATION CODES

(0 1) Northport	(1 7) Inchelium	(3 3) Hawk Creek
(0 2) China Bend	(1 8) Hunters	(3 4) Halverson Canyon
(0 3) North Gorge	(1 9) Rogers Bar	(3 5) Whitestone
(0 4) Snag Cove	(2 0) Enterprise	(3 6) Jones Bay
(0 5) Evans	(2 1) Fl. Spokane	(3 7) Penix Canyon
(0 6) Marcus Island	(2 2) Pierre	(3 8) Keller Ferry Marina
(0 7) Kamloops	(2 3) McCoys Marina	(3 9) Keller Ferry (S)
(0 8) Kettle Falls Marina	(2 4) Crystal Cove	(4 0) Keller Ferry (N)
(0 9) Sherman Creek	(2 5) Ponderosa	(4 1) Keller Park
(1 0) Haag Cove	(2 6) Dettillion	(4 2) Silver Creek
(1 1) Bradbury Beach	(2 7) Porcupine Bay	(4 3) Sanpoil River
(1 2) Barnaby Creek	(2 8) Bull Pasture Docks	(4 4) Swallow Basin
(1 3) Daisy	(2 9) Sand Bar Spk. Riv.	(4 5) Plum Point
(1 4) Clover Leaf	(3 0) LF Boat Launch	(4 6) Spring Canyon
(1 5) Gifford Camp	(3 1) Little Falls Dam	(4 7) Crescent Bay
(1 6) Gifford Ferry	(3 2) 7 Bays	(4 8) Coulee Dam

DESIGNATED CREEL AREAS:

Northern FDR	Locations 01-17
Middle FDR	Locations 18-20, 32 and 33
Southern FDR	Locations 34-38
Spokane Arm	Locations 21-31

Table B2. Effort expended during Lake Roosevelt creel surveys July, 1988 to December, 1988. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip*
		Complete	Incomplete	Complete	Incomplete	Time (hours)
JUL	Boaters	14	0	58	0	4.1
	Shore	0	16	0	27	0
	Total	14	16	58	27	4.1
AUG	Boaters	208	152	639	366	3.0
	Shore	5	26	9.5	39.5	1.9
	Total	213	178	648.5	405.5	3.0
SEP	Boaters	159	65	727.5	222.5	4.6
	Shore	3	25	8	68.5	2.7
	Total	162	90	735.5	291	4.5
OCT	Boaters	92	20	392	75.5	4.3
	Shore	3	53	9	159	3.0
	Total	95	73	401	234.5	4.2
NOV	Boaters	36	7	157	23	4.4
	Shore	7	8	26.5	42	3.8
	Total	43	15	183.5	65	4.3
DEC	Boaters	21	5	88	15	4.2
	Shore	16	133	74	352.5	4.6
	Total	37	138	162	367.5	4.4
JUL-DEC TOTAL						
	Boaters	497	249	2061.5	702	4.1
	Shore	34	261	127	688.5	3.7
	Total	531	510	2188.5	1390.5	4.1

. Average trip time based on **completed** angling trips.

Table B3. Effort expended during Lake Roosevelt creel surveys for in 1989. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip* Time (hours)
		Complete	Incomplete	Complete	Incomplete	
JAN	Boaters	13	11	66	16	5.0
	Shore	64	217	171.5	447.5	2.7
	Total	77	228	237.5	463.5	3.0
FEB	Boaters	16	0	80	0	5.0
	Shore	53	171	156.5	464	3.0
	Total	69	171	236.5	464	3.4
MAR	Boaters	24	2	108	16	4.5
	Shore	37	168	121.75	306	3.3
	Total	61	170	229.75	324	3.8
APR	Boaters	47	17	232.5	19	4.9
	Shore	89	304	357.75	483	4.0
	Total	136	321	590.25	502	4.3
MAY	Boaters	98	6	361	16	3.7
	Shore	62	133	126	342.5	2.0
	Total	160	139	487	358.5	3.0
JUN	Boaters	144	5	672	19	4.7
	Shore	33	130	85	524.25	2.6
	Total	177	135	757	543.25	4.3
JUL	Boaters	196	10	901.5	50	4.6
	Shore	22	126	111	899	5.0
	Total	218	136	1012.5	949	4.6
AUG	Boaters	212	26	904	74	4.3
	Shore	19	110	47.75	741.5	2.5
	Total	231	136	951.75	815.5	4.1
SEP	Boaters	151	13	684.5	62	4.5
	Shore	31	134	85.25	747.5	2.7
	Total	182	147	769.75	809.5	4.2
OCT	Boaters	75	0	334	0	4.5
	Shore	17	39	96.5	227	5.7
	Total	92	39	430.5	227	4.7
NOV	Boaters	86	6	397	16.5	4.6
	Shore	15	28	90.5	141	6.0
	Total	101	34	487.5	157.5	4.8
DEC	Boaters	23	1	126	3	5.5
	Shore	20	119	56.5	379	2.8
	Total	43	120	182.5	379	4.2
ANNUAL						
	Boaters	1065	97	4866.5	291.5	4.5
	Shore	462	1679	1506	5704.25	3.3
	Total	1547	1776	6372.5	5995.75	4.1

. Average trip time based on completed angling trips.

Table 84. Effort expended during creel surveys for Northern Lake Roosevelt (Location's 01-17) in 1988. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip
		Complete	Incomplete	Complete	Incomplete	ime (hours)
JUL	Boaters	0	0	0	0	0
	Shore	0	8	0	12	0
	Total	0	8	0	12	0
AUG	Boaters	8	0	45	0	5.6
	Shore	1	1	2	2.5	2.0
	Total	9	1	47	2.5	5.2
SEP	Boaters	8	8	30	35	7.5
	Shore	0	0	0	0	0
	Total	8	8	30	35	7.5
OCT	Boaters	17	0	82	0	4.8
	Shore	0	2	0	36	0
	Total	17	2	82	36	4.8
NOV	Boaters	0	3	0	7	0
	Shore	0	3	0	7	0
	Total	0	6	0	14	0
DEC	Boaters	7	0	31	0	4.4
	Shore	0	19	0	45.5	0
	Total	7	19	31	45.5	4.4
SEMI - ANNUAL						
	Boaters	41	11	188	78	4.6
	Shore	1	33	2	103	2
	Total	42	44	190	181	4.5

. Average trip time based on completed angling trips.

Table B5. Effort expended during creel surveys for Middle Lake Roosevelt (Location's 18-20, 32 and 33) in 1988. Data includes average trip time.

I	n	c	o	No. Anglers Interviewed		No. Hours Checked		Average Trip' Time (hours)
				Complete	Incomplete	Complete	Incomplete	
JUL	Boaters	Shore	Total	10		54		5.4
				0		0		0
				10		54		5.4
AUG	Boaters	Shore	Total	1	86	311	260	3.5
				90	2	1	4	1
					88	312	264	3.5
SEP	Boaters	Shore	Total	70	43	352	142	5.0
				-	4		18	
				70	47	352	160	5.0
OCT	Boaters	Shore	Total	25	14	112	56	4.4
				25	14	112	56	4.4
NOV	Boaters	Shore	Total	22	3	95	12	4.3
				5		23	31	4.6
				27	19	128	43	4.7
DEC	Boaters	Shore	Total	6	5	32	15	5.3
				16	58	74	144	4.6
				22	63	106	159	4.8
SEMI - ANNUAL								
	Boaters			222	151	956	485	4.3
	Shore			22	83	98	197	4.5
	Total			244	234	1054	682	4.3

* Average trip time based on completed angling trips.

Table B6. Effort expended during creel surveys for Southern Lake Roosevelt (Location's 34-48) in 1988. Data includes average trip time.

		No. Anglers Complete	Interviewed Incomplete	No. Hours Complete	Checked Incomplete	Average Trip* Time (hours)
AUG	Boaters	78	18	248	56	3.2
	Shore	2	2	4.5	1	2.25
	Total	80	20	252.5	57	3.2
SEP	Boaters	46	14	138.5	45.5	3.01
	Shore	2	0	6	0	3
	Total	48	14	144.5	45.5	3.01
OCT	Boaters	32	6	99	19.5	3.09
	Shore	0	0	0	0	0
	Total	32	6	99	19.5	3.09
NOV	Boaters	8	0	27	0	3.28
	Shore	1	5	2	4	2
	Total	9	5	29	4	3.22
DEC	Boaters	8	0	25	0	3.13
	Shore	0	37	0	94	0
	Total		37	25	94	3.13
SEMI - ANNUAL						
	Boaters	172	38	537.5	121	3.13
	Shore	5	44	12.5	99	2.5
	Total	177	82	550	220	3.11

. Average angling trip based on completed angling trips.

Table B7. Effort expended during creel surveys for Spokane arm of Lake Roosevelt [Location's 21-31) in 1988. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip'
		Complete	Incomplete	Complete	Incomplete	Time (hours)
JUL	Boaters	4	0	4	0	1
	Shore	0	8	0	15	0
	Total	4	8	14	15	1
AUG	Boaters	33	48	35	50	4.1
	Shore	1	21	2	32	1.5
	Total	34	67	37	82	4.1
SEP	Boaters	35	0	207	0	5.9
	Shore	1	21	1	50.5	1
	Total	36	21	208	50.5	5.8
OCT	Boaters	18	0	99	0	5.5
	Shore	3	51	9	123	3
	Total	21	51	108	123	5.1
NOV	Boaters	6	1	35	4	5.8
	Shore	1	0	1.5	0	1.5
	Total	7	1	36	4	5.1
DEC	Boaters	0	0	0	0	0
	Shore	0	19	0	69	0
	Total	0	19	0	69	0
SEMI - ANNUAL 1988						
	Boaters	96	49	481.5	121	5.0
	Shore	6	120	13	295.5	2.2
	Total	102	169	494.5	416.5	4.9

* Average trip time based on completed angling trips

Table B8. Effort expended during creel surveys for Northern Lake Roosevelt (Location's 01-17) in 1988. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip*
		Complete	Incomplete	Complete	Incomplete	Time (hours)
JAN	Boaters	4	3	14	3	3.5
	Shore	30	64	66	132	2.2
	Total	34	67	80	135	2.4
FEB	Boaters	2	0	10	0	5.0
	Shore	41	43	104	131	2.5
	Total	43	43	114	131	2.7
MAR	Boaters	4	0	15	0	3.75
	Shore	17	63	58.75	209	3.5
	Total	21	63	73.75	104	3.5
APR	Boaters	18	6	90.5	13	5.0
	Shore	56	105	183.75	316.5	3.3
	Total	74	111	274.25	329.5	3.7
MAY	Boaters	53	4	175	10	3.3
	Shore	53	72	363	195	6.9
	Total	106	76	538	205	5.1
JUN	Boaters	72	3	334.5	0	4.7
	Shore	33	103	85	476.25	2.6
	Total	105	103	419	476	4
JUL	Boaters	121	7	574	41	4.7
	Shore	20	110	107	869	5.4
	Total	141	117	681	910	4.8
AUG	Boaters	129	03	606	3	4.7
	Shore	11	100	35.75	725.5	3.3
	Total	140	103	641.75	728.5	4.6
SEP	Boaters	135	05	604	36	4.5
	Shore	01	74	01	632	1
	Total	136	79	605	668	4.5
OCT	Boaters	46	0	234	0	5.1
	Shore	11	26	79	193	7.2
	Total	57	26	313	193	5.5
NOV	Boaters	49	0	255	0	5.2
	Shore	09	16	58	108	6.4
	Total	58	16	313	108	5.4
DEC	Boaters	14	0	85	0	6.1
	Shore	17	48	45	147	2.6
	Total	31	48	130	147	4.2
ANNUAL	Boaters	647	28	2997	106	4.6
	Shore	299	824	1186.25	4134.25	4.0
	Total	946	852	4183.25	4240.25	4.4

. Average trip time based on completed angling trips.

Table B9. Effort expended during creel surveys for Middle Lake Roosevelt (Locations 18-20, 32 and 33) in 1989. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip
		Complete	Incomplete	Complete	Incomplete	Time (hours)
JAN	Boaters	0	1	0	1	
	Shore	10	21	36	41	3.6
	Total	10	22	36	42	3.6
FEB	Boaters	12	0	60	0	5.0
	Shore	5	23	29	78	5.8
	Total	17	23	89	78	5.2
MAR	Boaters	12	2	50	16	4.2
	Shore	14	18	51	49	3.6
	Total	26	20	101	65	3.9
APR	Boaters	22	0	98	0	4.5
	Shore	15	55	95	135	6.3
	Total	37	55	193	135	5.2
MAY	Boaters	20	0	88	0	4.4
	Shore	1	1	4	4	4
	Total	21	1	92	4	4.4
JUN	Boaters	36	3	156	12	4.3
	Shore	0	16	0	26	0
	Total	36	19	156	38	4.3
JUL	Boaters	29	0	135	0	4.7
	Shore	2	5	4	10	2.0
	Total	31	5	139	10	4.5
AUG	Boaters	59	18	223	54	3.8
	Shore	0	0	0	0	0
	Total	59	18	223	54	3.8
SEP	Boaters	6	4	19	13	3.2
	Shore	4	0	13	0	3.2
	Total	10	4	32	13	3.2
OCT	Boaters	20	0	65	0	3.2
	Shore	1	0	1	0	1.0
	Total	21	0	66	0	3.1
NOV	Boaters	30		124	4	4.1
	Shore	6	10	23	25	3.8
	Total	36	11	147	29	4.0
DEC	Boaters	6	1	26	3	4.3
	Shore	0	50	0	189	0
	Total	6	51	26	192	4.3
ANNUAL						
	Boaters	252	30	1044	103	4.1
	Shore	58	199	256	557	4.4
	Total	310	229	1300	660	4.2

* Average trip time based on completed angling trips.

Table B10. Effort expended during creel surveys for Southern Lake Rodsevelt (Locations 34-48) in 1989. Data includes average trip time.

		No. Anglers Interviewed		No. Hours Checked		Average Trip' time (hours)
		Complete	Incomplete	Complete	Incomplete	
JAN	Boaters	9	7	52	12	5.8
	Shore	9	98	28	223	3.1
	Total	18	105	80	235	4.4
FEB	Boaters	2	0	10	0	5.0
	Shore	5	a3	15.5	189	3.1
	Total	7	a3	25.5	189.5	3.6
MAR	Boaters	8	0	43	0	5.4
	Shore	6	59	12	162.5	2.0
	Total	14	59	55	162.5	3.9
APR	Boaters	7	11	44	39	6.3
	Shore	16	125	73	328	4.6
	Total	23	136	117	367	5.0
MAY	Boaters	23	2	94	6	4.1
	Shore	2	46	16	111.5	8.0
	Total	25	48	110	117.5	4.4
JUN	Boaters	19	0	99	0	5.2
	Shore	0	10	0	19	0
	Total	19	10	99	19	5.2
JUL	Boaters	40	3	169	9	4.2
	Shore	0	1	0	2	0
	Total	40	4	169	11	4.2
AUG	Boaters	6	2	30	8	5.0
	Shore	0	0	0	0	0
	Total	6	2	30	8	5.0
SEP	Boaters	5	2	36	8	7.2
	Shore	3	0	9	0	1.0
	Total	8	2	45	8	5.6
OCT	Boaters	9	0	35	0	3.9
	Shore	0	0	0	0	0
	Total	9	0	35	0	3.9
NOV	Boaters	7	5	18	12.5	2.6
	Shore	0	0	0	0	0
	Total	7	5	18	12.5	2.6
DEC	Boaters	0	0	0	0	0
	Shore	1	17	2	35	2.0
	Total	1	17		35	2.0
ANNUAL	Boaters	135	32	630	129.5	4.7
	Shore	42	439	155.5	1070	3.7
	Total	177	471	785.5	1199.5	4.4

* Average trip time based on completed angling trips.

Table B11. Effort expended during creel surveys for Spokane Arm of Lake Roosevelt (Locations 21-31) in 1989. Data includes average trip time.

Month	Location	No. Anglers Interviewed		No. Hours Checked		Average Trip* Time (hours)
		Complete	Incomplete	Complete	Incomplete	
JAN	Boaters	0	0	0	0	0
	Shore	15	34	41.5	51.5	2.8
	Total	15	34	41.5	51.5	2.8
FEB	Boaters	0	0	0	0	0
	Shore	2	22	8	66	4
	Total	2	22	8	66	4
MAR	Boaters	0	0	0	0	0
	Shore	0	28	0	75.5	0
	Total	0	28	0	75.5	0
APR	Boaters	0	0	0	0	0
	Shore	2	19	6	45	3
	Total	2	19	6	45	3
MAY	Boaters	2	0	4	0	2
	Shore	6	14	34	32	5.7
	Total	8	14	38	32	4.75
JUN	Boaters	17	2	82.5	7	4.9
	Shore	0	1	0	3	0
	Total	17	3	82.5	10	4.9
JUL	Boaters	6	0	23.5	0	3.9
	Shore	0	10	0	18	0
	Total	6	10	23.5	18	3.9
AUG	Boaters	18	3	45	9	2.5
	Shore	8	10	12	16	1.5
	Total	26	13	57	25	2.2
SEP	Boaters	5	2	25.5	5	5.1
	Shore	23	60	62.25	115.5	2.7
	Total	28	62	87.75	120.5	3.1
OCT	Boaters	0	0	0	0	0
	Shore	5	13	16.5	34	3.3
	Total	5	13	16.5	34	3.3
NOV	Boaters	0	0	0	0	0
	Shore	0	2	0	8	0
	Total	0	2	0	8	0
DEC	Boaters	3	0	15	0	5
	Shore	2	4	9.5	8	4.75
	Total	5	4	24.5	8	4.9
ANNUAL 1989						
	Boaters	51	7	195.5	21	3.8
	Shore	63	217	189.75	472.5	3.0
	Total	114	224	385.25	493.5	3.4

* Average trip time based on completed angling trips

Table B12. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Northern Lake Roosevelt August, 1988 - December, 1988.

	TOTAL CATCH	HARVESTED
NORTHERN	CPUE MEAN	CPUE MEAN
Rainbow trout	0.35	0.33
Walleye	0.29	0.04
AUG - DEC TOTAL	0.65	0.37

Table 813. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Middle Lake Roosevelt August, 1988 - December, 1988.

	TOTAL CATCH	HARVESTED
MIDDLE	CPUE MEAN	CPUE MEAN
Rainbow trout	0.59	0.49
Kokanee	0.008	0.008
Walleye	0.45	0.05
Yellow Perch	0.008	0.008
Smallmouth Bass	0.002	0.002
AUG - DEC TOTAL	1.1	0.56

Table **B14**. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Southern Lake Roosevelt August, 1988 - December, 1988.

	TOTAL CATCH	HARVESTED
NORTHERN	CPUE MEAN	CPUE MEAN
Rainbow trout	0.37	0.37
Kokanee	0.006	0.006
Walleye	0.11	0.03
Smallmouth Bass	0.11	0.06
AUG - DEC TOTAL	0.60	0.46

Table **B15**. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Spokane Arm Lake Roosevelt August, 1988 - December, 1988.

	TOTAL CATCH	HARVESTED
MIDDLE	CPUE MEAN	CPUE MEAN
Rainbow trout	0.20	0.20
Kokanee	0.08	0.08
Walleye	0.46	0.13
Smallmouth Bass	0.002	0.002
AUG - DEC TOTAL	.75	0.42

Table B16. Monthly mean and total CPUE of fish harvested (kept) for Northern, Mid, Southern, and Spokane Arm of Lake Roosevelt July, 1988 to December, 1988.

Northern 1988	JUL	AUG	S E P	T OCT	NOV	DEC
Rainbow trout		0.24	0.11	0.22	0.80	0.29
Walleye		0.07	0.04	0.08		
Sturgeon						
Total		0.31	0.15	0.30	0.80	0.29

Mid 1988	JUL	AUG	S E P	T OCT	NOV	DEC
Rainbow trout	0.35	0.34	0.30	0.29	0.75	0.89
Kokanee	0.04		0.01			
Walleye	0.04	0.01	0.11	0.09		0.06
Yellow Perch			0.05			
Smallmouth Bass			0.01			
Total	0.43^a	0.35	0.48	0.38	0.75	0.95

Southern 1988		AUG	SEPT	OCT	NOV	DEC
Rainbow trout		0.40	0.45	0.33	0.33	0.32
Kokanee		0.03				0.06
Walleye		0.11	0.02	0.01		
Smallmouth Bass		0.13	0.09	0.09		
Total		0.67	0.56	0.43	0.33	0.38

Spok Arm 1988	JUL	AUG	SEPT	OCT	NOV	DEC
Rainbow trout	0.11	0.09	0.09	0.05	0.47	0.37
Kokanee			0.22	0.28		
Walleye	0.21	0.21	0.14	0.15	0.09	
Smallmouth Bass			0.01			
Total	0.32^a	0.30	0.46	0.48	0.56	0.37

TOTAL	0.75	1.63	1.65	1.59	2.44	1.99
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^a - only 3 days were sampled for CPUE in July, 1988.

Table B17. Monthly mean and total CPUE of total catch (kept and released fish) for Northern, Mid, Southern, and Spokane Arm FDR July, 1988 to December, 1988.

Northern 1988		AUG	SEPT	OCT	NOV	DEC
Rainbow trout		0.24	0.11	0.24	0.90	0.29
Walleye		0.48	0.15	0.17	0.10	0.05
Sturgeon						
Total		0.72	0.26	0.41	1.0	0.34

Mid 1988		JUL	AUG	SEPT	OCT	NOV	DEC
Rainbow trout		0.85	0.34	0.34	0.29	0.79	0.91
Kokanee		0.04		0.01			
Walleye		0.23	1.08	0.51	0.50	0.15	0.23
Yellow Perch				0.05			
Smallmouth Bass				0.01			
Total		1.12^a	1.42	0.92	0.79	0.94	1.14

Southern 1988		AUG	SEPT	OCT	NOV	DEC
Rainbow trout		0.40	0.47	0.33	0.33	0.32
Kokanee		0.03				0.06
Walleye		0.43	0.11	0.01		
Smallmouth Bass		0.30	0.14	0.12		
Total		1.16	0.72	0.46	0.33	0.38

Spok Arm 1988		JUL	AUG	SEPT	OCT	NOV	DEC
Rainbow trout		0.11	0.09	0.09	0.05	0.47	0.37
Kokanee				0.22	0.28		
Walleye		0.37	1.28	0.45	0.36	0.32	
Smallmouth Bass				0.01			
Total		0.48^a	1.37	0.77	0.69	0.79	0.37

TOTAL		1.60	4.67	2.67	2.35	3.06	2.23
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^a - only three days were sampled for CPUE in July, 1988.

Table B18. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Northern Lake Roosevelt, 1989.

	TOTAL CATCH	HARVESTED
NORTHERN	CPUE MEAN	CPUE MEAN
Rainbow trout	0.11	0.10
Kokanee	0.001	0.001
Walleye	0.13	0.05
Yellow Perch	0.01	0.002
Largemouth Bass	0.0001	0.0001
Smallmouth Bass	0.001	0.001
Sturgeon	0.02	0.01
Burbot	0.0004	0.0004
ANNUAL TOTAL	0.27	3.17

Table B19. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Middle Lake Roosevelt, 1989.

	TOTAL CATCH	HARVESTED
MIDDLE	CPUE MEAN	CPUE MEAN
Rainbow trout	0.18	0.15
Kokanee	0.02	0.02
Walleye	0.18	0.10
Yellow Perch	0.002	0.002
ANNUAL TOTAL	0.38	0.27

Table B20. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Southern Lake Roosevelt, 1989.

	TOTAL CATCH	HARVESTED
SOUTHERN	CPUE MEAN	CPUE MEAN
Rainbow trout	0.18	0.18
Kokanee	0.03	0.03
Walleye	0.04	0.01
Yellow Perch	0.01	0.01
Smallmouth Bass	0.002	0.002
Black Crappie	0.06	0.003
TOTAL	0.27	0.23

Table 821. CPUE based on total catch (kept and released fish) and harvested fish (kept) for Spokane Arm Roosevelt, 1989.

	TOTAL CATCH	HARVESTED
SPOKANE ARM	CPUE MEAN	CPUE MEAN
Rainbow trout	0.13	0.13
Kokanee	0.04	0.04
Chinook Salmon	0.003	0.003
Lake Whitefish	0.001	0.001
Walleye	0.19	0.10
Smallmouth Bass	0.01	0.01
Brown Bullhead	0.003	0.0
TOTAL	0.38	0.28

Table B22. Monthly mean and total CPUE of fish harvested (kept) for Northern Lake Roosevelt, 1989.

NORTHERN 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.31	0.22	0.12	0.05	0.02	0.006	0.005	0.003	0.004	0.02	0.06	0.41
Kokanw Walleye			0.005 0.01	0.005	0.04	0.13	0.05	0.04	0.09	0.05	0.1	0.14
Yellow Perch			0.005	0.007	0.002	0.003			0.001		0.003	
Largemouth Bass						0.001						
Smallmouth Bass					0.006			0.002				
Sturgeon				0.002	0.004	0.01	0.003		0.006	0.04		
Burbot			0.005									
Total	0.31	0.22	0.15	0.06	0.06	0.15	0.06	0.05	0.1	0.11	0.16	0.55

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Table 823. Monthly mean and total CPUE of fish harvested (kept) for Middle Lake Roosevelt, 1989.

MIDDLE 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.28	0.28	0.05	0.13	0.09	0.06	0.02	0.1	0.08	0.27	0.26	0.15
Kokanee	0.04	0.02	0.17	0.02			0.02	0.005			0.004	
Walleye	0.02		0.11	0.45	0.06	0.12	0.09	0.05	0.02	0.24	0.02	
Yellow Perch					0.02							
Total	0.34	0.3	0.33	0.6	0.17	0.18	0.13	0.16	0.1	0.51	0.28	0.15

Table B24. Monthly mean and total CPUE of fish harvested (kept) for Southern Lake Roosevelt, 1989.

SOUTHERN 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.35	0.3	0.19	0.26	0.34	0.05	0.12	0.07	0.06	0.21	0.09	0.13
Kokanee	0.04	0.01	0.01	0.07	0.04	0.02	0.03	0.01	0.05	0.03		
Walleye						0.04	0.04	0.03	0.03		0.062	
Yellow Perch				0.01		0.01	0.12					
Smallmouth Bass				0.003		0.01	0.01					
Black Crappie							0.03					
Total	0.39	0.31	0.2	0.34	0.38	0.09	0.35	0.12	0.14	0.24	0.11	0.13

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Table B25. Monthly mean and total CPUE of fish harvested (kept) for Spokane Arm of Lake Roosevelt, 1989.

SPOKANE ARM 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.4	0.14	0.09	0.18	0.17	0.03	0.09	0.04	0.01		0.25	0.11
Kokanee				0.04				0.04	0.23	0.11		
Chinook										0.03		
Lake Whitefish										0.01		
Walleye			0.04	0.13	0.37	0.21	0.09	0.22	0.05	0.04		0.04
Smallmouth Bass					0.16							
Brown Bullhead												
Total	0.4	0.17	0.13	0.35	0.7	0.24	0.18	0.3	0.29	0.19	0.25	0.15

Table B26. Monthly mean and total CPUE for total catch (kept and released fish) for Northern Lake Roosevelt, 1989.

NORTHERN 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.31	0.22	0.12	0.05	0.02	0.005	0.004	0.005	0.02	0.15	0.41	0.41
Kokanee			0.005		0.004	0.001	0.001	0.001				
Walleye			0.01	0.005	0.05	0.42	0.21	0.17	0.23	0.12	0.14	0.36
Yellow Perch			0.005	0.007	0.002	0.003	0.001		0.001		0.003	
Largemouth Bass						0.001						
Smallmouth Bass					0.006		0.002	0.003				
Sturgeon				0.005	0.006	0.01	0.005	0.003	0.01	0.05		
Burbot			0.005									
Total	0.31	0.22	0.16	0.007	0.09	10.45	0.22	0.18	0.25	0.19	0.29	0.77

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Table B27. Monthly mean and total CPUE for total catch (kept and released fish) for Middle Lake Roosevelt, 1989.

MIDDLE 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.28	0.28	0.05	0.13	0.2	0.06	0.02	0.1	0.08	0.27	0.26	0.15
Walleye	3.04	0.02	0.17	0.02			0.02	0.005			0.004	
Yellow Perch	0.02		0.11	0.45	0.38	0.35	0.38	0.09	0.1	0.24	0.02	
Total	0.34	0.55	0.33	0.60	0.60	0.41	0.42	0.11	0.18	0.51	0.28	0.15

Table B28. Monthly mean and total CPUE for total catch (kept and released fish) for Southern Lake Roosevelt, 1989.

SOUTHERN 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.35	0.3	0.19	0.26	0.34	0.06	0.12	0.07	0.06	0.21	0.09	0.13
Kokanee	0.04	0.01	0.01	0.07	0.04	0.05	0.03	0.01	0.05	0.03		
Walleye						0.02	0.14	0.15	0.04	0.07	0.06	0.02
Yellow Perch				0.01		0.01	0.12					0.07
Smallmouth Bass				0.003		0.01	0.01					
Black Crappie							0.03					
Total	0.39	0.31	0.2	0.34	0.38	0.15	0.45	0.23	0.15	0.31	0.15	0.26

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Table B29. Monthly mean and total CPUE for total catch (kept and released fish) for Spokane Arm of Lake Roosevelt, 1989.

SPOKANE ARM 1989	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Rainbow Trout	0.4	0.14	0.09	0.18	0.17	0.03	0.09	0.04	0.01		0.25	0.11
Kokanee				0.04				0.04	0.23	0.11		
Chinook										0.03		
Lake Whitefish										0.01		
Walleye		0.03	0.04	0.13	0.37	0.38	0.93	0.24	0.08	0.04		0.04
Smallmouth Bass					0.16							
Brown Bullhead							0.03					
Total	0.4	0.17	0.13	0.35	0.7	0.41	1.05	0.32	0.32	0.19	0.25	0.15

Table **B30**. Monthly estimate of total harvest (\pm 95% **C.I.**) for Northern Lake Roosevelt, 1988.

NORTHERN 1988	TOTAL HARVEST (\pm 95% C.I.)	
	Rainbow trout	Walleye
August	11,381 (\pm 3,936)	3,319 (\pm 1148)
September	561 (\pm 245)	204 (f89)
October	1031 (\pm 317)	375 (\pm 115)
November	4282 (\pm 1359)	
December	1542 (\pm 606)	
SEMI-ANNUAL TOTAL	18,797 (\pm6463)	3,898(\pm1352)

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Table 831. Monthly estimate of total harvest (\pm 95% C.I.) for Middle Lake Roosevelt, 1988.

MIDDLE 1988	TOTAL HARVEST (\pm 95% C.I.)				
	Rainbow trout	Kokanee	Walleye	Yellow Perch	SMB
July	7,756 (\pm 5074)	886 (\pm 580)	886 (\pm 580)		
August	11,687 (f4694)		343 (\pm 138)		
September	7,262 (\pm 1874)	242 (\pm 62)	2,663 (\pm 687)	1,210 (\pm 312)	242 (\pm 62)
October	6,958 (\pm 1671)		2,159 (\pm 518)		
November	6,203 (\pm 1320)				
December	7,532 (\pm 1505)		508 (\pm 101)		
SEMI-ANNUAL TOTAL	47,398 (\pm16,138)	1128 (\pm642)	6,559 (\pm2024)	1,210 (\pm312)	242 (\pm62)

Table B32. Monthly estimate of total harvest (\pm 95% C.I.) for Southern Lake Roosevelt, 1988.

TOTAL HARVEST (\pm 95% C.I.)				
SOUTHERN 1988	Rainbow trout	Kokanee	Walleye	SMB
August	13,982 (\pm 6705)	1049 (\pm 503)	3,845 (\pm 1844)	4,544 (\pm 2179)
September	4,113 (\pm 1507)		182 (\pm 67)	822 (\pm 302)
October	1,500 (\pm 486)		45 (\pm 15)	409 (\pm 133)
November	497 (\pm 257)			
December	1,357 (\pm 218)	91 (\pm 41)		
SEMI-ANNUAL TOTAL	21,449 (\pm9173)	1,140 (\pm544)	4,072 (\pm1926)	5,775 (\pm2614)

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Table 833. Monthly estimate of total harvest (\pm 95% C.I.) for Spokane Arm Roosevelt, 1988.

TOTAL HARVEST (\pm 95% C.I.)				
SPOKANE ARM 1988	Rainbow trout	Kokanee	Walleye	SMB
July	1,595 (\pm 899)		3,045 (\pm 1716)	
August	1,907 (\pm 841)		343 (\pm 1962)	
September	1,706 (\pm 875)	4,170 (\pm 2140)	4,450 (\pm 1362)	190 (\pm 97)
October	697 (\pm 209)	3,901 (\pm 1168)	2,090 (\pm 626)	
November	881 (\pm 309)		169 (\pm 59)	
December	1,028 (\pm 220)			
SEMI-ANNUAL TOTAL	7,814 (\pm3353)	8,071 (\pm3308)	12,407 (\pm5725)	190 (\pm97)

Table B34. Monthly estimate of total harvest (\pm 95% C.I.) for Northern Lake Roosevelt, 1989.

NORTHERN 1989	TOTAL HARVEST (\pm 95% C.I.)						
	RAINBOW TROUT	KOKANEE	WALLEYE	YELLOW PERCH	LARGEMOUTH BASS	SMALLMOUTH BASS	BURB
January	91 (\pm 35)						
February	143 (\pm 34)						
March	294 (\pm 126)	12 (\pm 5)	25 (\pm 10)	12 (\pm 5)			12 (\pm 5)
April	207 (\pm 68)		21 (\pm 7)	29 (\pm 10)			
May	298 (\pm 146)	60 (\pm 29)	595 (\pm 292)	30 (\pm 15)		89 (\pm 44)	
June	46 (\pm 18)	8 (\pm 3)	1,004 (\pm 386)	23 (\pm 9)	8 (\pm 3)		
July	150 (\pm 36)	30 (\pm 7)	1,499 (\pm 360)				
August	65 (\pm 25)	22 (\pm 8)	865 (\pm 328)			43 (\pm 16)	
September	27 (\pm 5)		618 (\pm 122)	7 (f1)			
October	48 (f18)		119 (\pm 44)				
November	283 (\pm 137)		353 (\pm 172)	11 (\pm 5)			
December	1,552 (\pm 650)		530 (\pm 222)				
ANNUAL TOTAL	3,204 (\pm 1,198)	132 (\pm 52)	5,629 (\pm 1,943)	112 (\pm 45)	8 (\pm 3)	132 (\pm 60)	12 (\pm 5)

Table B35. Monthly estimate of total harvest (\pm 95% C.I.) for Middle Lake Roosevelt, 1989.

MIDDLE 1989	TOTAL HARVEST (\pm 95% C.I.)			
	Rainbow trout	Kokanee	Walleye	Yellow Perch
January	1,700 (\pm 415)	243 (\pm 59)	121 (\pm 30)	
February	755 (\pm 377)	55 (\pm 27)		
March	576 (\pm 203)	1,957 (\pm 692)	1,267 (\pm 447)	
April	4,084 (\pm 1230)	628 (\pm 189)	14,178 (\pm 4260)	
May	1,602 (\pm 692)		1,128 (\pm 462)	376 (\pm 154)
June	4,225 (\pm 1631)		8,450 (\pm 3261)	
July	881 (\pm 151)	881 (\pm 151)	3,965 (\pm 679)	
August	7,525 (\pm 4295)	376 (\pm 215)	3,762 (\pm 2148)	
September	1,043 (\pm 169)		261 (\pm 42)	
October	2,167 (\pm 736)		1,926 (\pm 654)	
November	735 (\pm 199)	11 (\pm 3)	57 (\pm 15)	
December	385 (\pm 65)			
ANNUAL TOTAL	25,768 (\pm 10,163)	4,151 (\pm 1336)	35,115 (\pm 11,998)	376 (\pm 154)

Table 836. Monthly estimate of total harvest (\pm 95% C.I.) for Southern Lake Roosevelt, 1989.

SOUTHERN 1989	TOTAL HARVEST (\pm 95% C.I.)					
	RAINBOW TROUT	KOKANEE	WALLEYE	YELLOW PERCH	SMALLMOUTH BASS	BLACK CRAPPIE
January	1,629 (\pm 610)	186 (\pm 70)				
February	1,177 (\pm 288)	39 (\pm 10)				
March	1,217 (\pm 555)	64 (\pm 10)				
April	2,027 (\pm 854)	546 (\pm 230)		78 (\pm 33)	24 (\pm 10)	
May	5,063 (\pm 1714)	596 (\pm 202)				
June	1,444 (\pm 430)	577 (\pm 172)	1,155 (\pm 344)	289 (\pm 86)	289 (\pm 86)	
July	2,763 (\pm 1292)	691 (\pm 323)	921 (\pm 431)	2,763 (\pm 1292)	230 (\pm 108)	691 (\pm 323)
August	4,329 (\pm 819)	618 (\pm 117)	2,174 (\pm 351)			
September	888 (\pm 246)	740 (\pm 205)	444 (\pm 123)			
October	2,260 (\pm 619)	323 (\pm 88)				
November	1,801 (\pm 680)		1,241 (\pm 469)			
December	189 (\pm 81)					
ANNUAL TOTAL	24,787 (\pm8188)	4,057 (\pm1427)	5,935 (\pm1718)	3,130 (\pm1411)	543 (\pm204)	691 (\pm323)

Table 837. Monthly estimate of total harvest (\pm 95% C.I.) for Spokane Arm Lake Roosevelt, 1989.

SPOKANE ARM 1989	TOTAL HARVEST (\pm 95% C.I.)					
	RAINBOW TROUT	KOKANEE	CHINOOK	LAKE WHITEFISH	WALLEYE	SMALLMOUTH BASS
January	1,084 (\pm 370)					
February	351 (\pm 83)					
March	159 (f43)				71 (\pm 19)	
April	122 (f42)	27 (\pm 9)			88 (\pm 30)	
May	917 (\pm 270)				1,996 (\pm 587)	863 (\pm 254)
June	3,221 (\pm 1574)				22,544 (\pm 11,018)	
July	4,462 (\pm 2454)				4,462 (\pm 2454)	
August	948 (\pm 287)	948 (\pm 287)			5,212 (\pm 1576)	
September	73 (\pm 16)	1,682 (\pm 371)			366 (\pm 81)	
October		909 (\pm 198)	248 (\pm 54)	83 (\pm 18)	331 (\pm 72)	
November	289 (\pm 107)					
December	156 (\pm 47)				57 (\pm 17)	
ANNUAL TOTAL	11,782 (f5293)	3,566 (\pm865)	248 (\pm54)	83 (\pm18)	35,127 (\pm15,854)	863 (\pm254)

Table B38. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Northern Lake Roosevelt, 1988.

	AUG	SEP	OCT	NOV	DEC
NORTHERN 1988	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	4,745 ($\pm 1,606$)	574 (± 164)	907 (± 215)	2,045 (± 787)	1,715 (± 989)
Weekday (AM) Shore	0	0	0	188 (± 55)	226 (± 93)
Weekday (PM) Boat	2,235 (± 799)	870 (± 361)	1,671 (± 723)	2,130 (± 507)	1,109 (± 402)
Weekday (PM) Shore	32 (± 11)	0	0	0	634 (± 199)
Weekday (AM) Boat	36,579 ($\pm 11,703$)	1,416 (± 750)	547 (± 103)	660 (± 235)	1,418 (± 337)
Weekday (AM) Shore	0	31 (± 11)	0	330 (± 115)	0
Weekend (PM) Boat	3,830 ($\pm 2,283$)	2,211 (± 939)	1,559 (± 401)	0	216 (± 68)
Weekend (PM) Shore	0	0	0	0	0
TOTAL	47,421 ($\pm 16,402$)	5,102 ($\pm 2,226$)	4,684 ($\pm 1,441$)	5,352 ($\pm 1,699$)	5,316 ($\pm 2,088$)

Table B39. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Middle Lake Roosevelt, 1988.

	JUL	AUG	SEP	OCT	NOV	DEC
MIDDLE 1988	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	0	8,293 ($\pm 1,393$)	6,202 ($\pm 2,522$)	2,614 ($\pm 1,025$)	2,038 (f259)	1,816 (± 384)
Weekday (AM) Shore	0	0	0	0	719 (± 154)	1,928 (± 349)
Weekday (PM) Boat	0	9,441 (± 568)	7,626 ($\pm 1,029$)	7,762 ($\pm 1,805$)	2,060 (f574)	8,800 (± 413)
Weekday (PM) Shore	0	71 (± 2)	0	0	507 (f72)	2,112 (f134)
Weekend (AM) Boat	21,116 ($\pm 14,334$)	6,155 ($\pm 7,882$)	5,863 (f383)	6,084 ($\pm 1,098$)	684 (± 180)	295 (t146)
Weekend (AM) Shore	0	28 (± 1)	0	0	481 (± 113)	783 (± 50)
Weekend (PM) Boat	766 (± 104)	9,826 ($\pm 3,504$)	4,425 ($\pm 2,276$)	7,534 (f1,835)	1,552 (f366)	185 (f71)
Weekend (PM) Shore	22,278 (f59)	560 (f457)	92 (f37)	0	232 (f42)	464 (f144)
TOTAL	($\pm 14,497$)	34,374 ($\pm 13,808$)	24,208 ($\pm 6,248$)	23,993 ($\pm 5,763$)	8,272 ($\pm 1,760$)	8,463 ($\pm 1,691$)

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Table 840. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Southern Lake Roosevelt, 1988.

	AUG	SEP	OCT	NOV	DEC
SOUTHERN 1988	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	9,339 ($\pm 2,384$)	4,476 ($\pm 1,134$)	1,409 (f504)	972 (f370)	650 (± 348)
Weekday (AM) Shore	0	0	0	13 (± 4)	154 (f31)
Weekday (PM) Boat	13,231 ($\pm 8,324$)	2,498 ($\pm 1,216$)	1,465 (f423)	475 (± 377)	0
Weekday (PM) Shore	0	0	0	0	194 (f73)
Weekday (AM) Boat	6,495 ($\pm 2,008$)	638 (± 212)	997 (f402)	44 (f26)	274 (± 176)
Weekday (AM) Shore	22 (± 4)	0	0	0	18 (f6)
Weekend (PM) Boat	5,819 ($\pm 4,035$)	1,327 (± 788)	675 (f145)	0	0
Weekend (PM) Shore	52 (f8)	0	0	0	234 (f47)
TOTAL	34,957 ($\pm 16,763$)	9,141 ($\pm 3,350$)	4,545 ($\pm 1,474$)	1,505 (± 778)	1,525 (± 681)

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Table B41. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Spokane Arm of Lake Roosevelt, 1988.

	JUL	AUG	SEP	OCT	NOV	DEC
SPOKANE ARM 1988	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	0	4,128 ($\pm 1,482$)	2,134 (± 163)	2,904 (± 427)	158 (± 93)	213 (± 40)
Weekday (AM) Shore	0	137 (± 39)	165 (± 6)	615 (± 235)	55 (± 10)	211 (± 25)
Weekday (PM) Boat	0	5,429 (± 351)	6,005 ($\pm 2,794$)	3,869 ($\pm 1,449$)	0	0
Weekday (PM) Shore	0	293 (± 17)	286 (± 8)	989 (± 371)	88 (± 42)	165 (± 32)
Weekend (AM) Boat	0	3,692 ($\pm 1,680$)	5,699 ($\pm 3,798$)	1,778 (± 747)	1,007 (± 250)	567 (± 119)
Weekend (AM) Shore	147 (± 18)	77 (± 5)	0	515 (± 121)	0	919 (± 178)
Weekend (PM) Boat	13,065 ($\pm 7,353$)	7,302 ($\pm 5,764$)	4,663 ($\pm 2,958$)	2,435 (± 649)	566 (± 261)	378 (± 76)
Weekend (PM) Shore	1,286 (± 800)	136 (± 5)	0	829 (± 173)	0	324 (± 124)
SEMI-ANNUAL TOTAL	14,498 ($\pm 8,172$)	21,193 ($\pm 9,342$)	18,952 ($\pm 9,726$)	13,933 ($\pm 4,171$)	1,875 (± 657)	2,777 (± 595)

Table B42. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Northern Lake Roosevelt, 1989.

	JAN	FEB	MAR	APR	MAY	JUN
NORTHERN 1989	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	16 (± 6)	0	502 (± 201)	242 (± 62)	3,441 ($\pm 1,111$)	1,091 (± 378)
Weekday (AM) Shore	4 (± 4)	35 (± 14)	61 (± 37)	135 (± 89)	1,127 (± 209)	162 (± 92)
Weekday (PM) Boat	0	0	1,152 (± 559)	1,924 (± 711)	5,030 ($\pm 3,737$)	2,114 (± 704)
Weekday (PM) Shore	144 (± 55)	0	0	0	296 (± 78)	2,275 (± 900)
Weekend (AM) Boat	23 (± 15)	216 (± 118)	735 (± 251)	266 (± 151)	393 (± 155)	301 (± 199)
Weekend (AM) Shore	23 (± 15)	0	0	66 (± 8)	1,656 (± 795)	396 (± 116)
Weekend (PM) Boat	33 (± 11)	48 (± 11)	0	436 (± 183)	1,906 (± 809)	831 (± 439)
Weekend (PM) Shore	51 (± 8)	53 (± 13)	0	1,074 (± 155)	1,031 (± 414)	550 (± 144)
SEMI-ANNUAL TOTAL	294 (± 113)	352 (± 156)	2,450 ($\pm 1,048$)	4,143 ($\pm 1,360$)	14,880 ($\pm 7,307$)	7,719 ($\pm 2,972$)

	JUL	AUG	SEP	OCT	NOV	DEC
SPOKANE ARM 1988	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	343 (± 211)	3,358 ($\pm 1,752$)	1,160 (± 25)	248 (± 161)	465 (± 188)	425 (± 265)
Weekday (AM) Shore	0	689 (± 206)	219 (± 63)	0	413 (± 144)	104 (± 49)
Weekday (PM) Boat	5,961 ($\pm 2,048$)	4,301 ($\pm 1,111$)	1,696 (± 338)	607 (± 261)	241 (± 104)	132 (± 92)
Weekday (PM) Shore	5,175 (± 954)	1,245 (± 441)	303 (± 56)	0	55 (± 17)	321 (± 74)
Weekend (AM) Boat	13,549 ($\pm 3,619$)	2,083 (± 974)	1,107 (± 250)	300 (± 245)	806 (± 362)	1,072 (± 233)
Weekend (AM) Shore	0	838 (± 385)	100 (± 49)	0	0	0
Weekend (PM) Boat	4,962 (± 372)	8,860 ($\pm 3,189$)	1,650 (± 453)	846 (± 160)	1,553 (± 901)	1,531 (± 820)
Weekend (PM) Shore	0	255 (± 129)	630 (± 123)	375 (± 53)	0	200 (± 52)
SEMI-ANNUAL TOTAL	29,990 ($\pm 7,203$)	21,629 ($\pm 8,188$)	6,864 ($\pm 1,357$)	2,375 (± 880)	3,532 ($\pm 1,716$)	3,785 ($\pm 1,585$)

Table B43. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Middle Lake Roosevelt, 1989.

	JAN	FEB	MAR	APR	MAY	JUN
MIDDLE 1989	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat ($\pm 11,151$)	943 (f291)	0	167 (± 13)	653 (± 15)	1,754 (± 121)	22,797
Weekday (AM) Shore	1,361 (± 207)	875 (f650)	564 (f7)	1,265 (± 35)	46 (f11)	216 (± 11)
Weekday (PM) Boat	1,392 (f368)	435 (± 41)	483 (± 45)	10,213 ($\pm 2,816$)	1,647 (± 384)	10,029 (± 537)
Weekday (PM) Shore	1,094 (± 460)	277 (f17)	3,809 ($\pm 1,625$)	2,475 (f126)	513 (± 110)	6,298 ($\pm 5,047$)
Weekend (AM) Boat	113 (± 18)	0	2,002 ($\pm 1,568$)	8,609 ($\pm 2,346$)	7,540 ($\pm 5,713$)	10,587 ($\pm 6,277$)
Weekend (AM) Shore	1,025 (f111)	60 (f4)	1,854 (± 289)	1,079 (f218)	77 (f18)	101 (± 14)
Weekend (PM) Boat	0	502 (f413)	888 (± 105)	3,880 ($\pm 3,542$)	7,153 ($\pm 1,350$)	20,286 ($\pm 4,132$)
Weekend (PM) Shore	142 (f26)	548 (f222)	1,748 (± 416)	3,244 (f368)	67 (± 15)	104 (± 10)
SEMI-ANNUAL TOTAL ($\pm 27,179$)	6,070 ($\pm 1,481$)	2,698 ($\pm 1,347$)	11,514 ($\pm 4,068$)	31,418 ($\pm 9,467$)	18,796 ($\pm 7,703$)	70,417

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	JUL	AUG	SEP	OCT	NOV	DEC
SPOKANE ARM 1988	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	9,635 (f446)	7,773 (f997)	1,292 (f108)	1,910 (± 109)	391 (f102)	168 (± 50)
Weekday (AM) Shore	0	0	0	73 (f3)	260 (f14)	489 (f128)
Weekday (PM) Boat	15,002 ($\pm 1,366$)	26,446 ($\pm 3,023$)	10,764 ($\pm 1,867$)	2,100 (± 341)	744 (f163)	250 (± 28)
Weekday (PM) Shore	62 (f6)	115 (f17)	0	174 (± 15)	81 (f23)	554 (± 141)
Weekend (AM) Boat	7,784 ($\pm 4,496$)	3,083 ($\pm 1,161$)	412 (f117)	740 (f235)	601 (± 196)	147 (f24)
Weekend (AM) Shore	0	0	0	0	0	360 (f47)
Weekend (PM) Boat	11,570 (f1,130)	8,095 ($\pm 6,559$)	567 (± 23)	3,028 ($\pm 2,032$)	618 (± 225)	153 (f34)
Weekend (PM) Shore	0	0	0	0	133 (± 42)	445 (f80)
SEMI-ANNUAL TOTAL	44,052 ($\pm 7,543$)	91,638 ($\pm 42,954$)	13,035 ($\pm 2,115$)	8,025 ($\pm 2,735$)	2,827 (± 765)	2,566 (f538)

Table 844. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Southern Lake Roosevelt, 1989.

	JAN		FEB		MAR		APR		MAY		JUN	
SOUTHERN 1989	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	
Weekday (AM) Boat	1,232 (f396)	342 (± 70)	859 (± 251)	582 (f307)	4,637 ($\pm 1,887$)	5,250 ($\pm 1,698$)						
Weekday (AM) Shore	246 (± 85)	399 (± 71)	219 (± 171)	387 (f158)	528 (± 163)	31 (± 8)						
Weekday (PM) Boat	1,075 (f457)	0	3,188 ($\pm 1,944$)	1,534 (± 464)	5,547 ($\pm 1,089$)	3,153 ($\pm 1,465$)						
Weekday (PM) Shore	141 (f37)	578 (± 243)	144 (± 100)	188 (± 82)	1,102 (± 474)	35 (± 9)						
Weekend (AM) Boat	960 (f318)	288 (f63)	283 (f124)	2,532 ($\pm 1,186$)	2,150 ($\pm 1,059$)	3,793 ($\pm 2,679$)						
Weekend (AM) Shore	186 (f122)	211 (f53)	224 (f81)	293 (± 190)	123 (f43)	0						
Weekend (PM) Boat	625 (f275)	239 (± 97)	1,488 (± 200)	1,634 (f687)	441 (f134)	16,612 ($\pm 2,733$)						
Weekend (PM) Shore	172 (f53)	1,867 (± 362)	0	648 (± 212)	363 (f194)	0						
SEMI-ANNUAL TOTAL	4,655 ($\pm 1,743$)	3,925 (± 959)	6,404 ($\pm 2,922$)	7,797 ($\pm 3,286$)	14,891 ($\pm 5,042$)	28,873 ($\pm 8,593$)						

	JUL		AUG		SEP		OCT		NOV		DEC	
SOUTHERN 1989	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	
Weekday (AM) Boat	5,828 ($\pm 2,657$)	6,584 ($\pm 2,667$)	2,307 ($\pm 1,123$)	2,013 (± 841)	211 (± 138)	326 (± 163)						
Weekday (AM) Shore	34 (f6)	0	0	0	22 (15)	18 (± 2)						
Weekday (PM) Boat	8,397 ($\pm 3,674$)	17,253 ($\pm 7,579$)	7,030 ($\pm 1,698$)	6,452 ($\pm 1,081$)	0	113 (± 42)						
Weekday (PM) Shore	0	0	0	0	0	94 (± 22)						
Weekend (AM) Boat	8,766 ($\pm 4,431$)	38,006 ($\pm 11,453$)	5,462 ($\pm 1,271$)	2,295 ($\pm 1,024$)	19,775 ($\pm 7,415$)	659 (± 301)						
Weekend (AM) Shore	0	0	0	0	0	169 (± 73)						
Weekend (PM) Boat	0	0	0	0	0	52 (± 12)						
Weekend (PM) Shore	0	0	0	0	0	24 (± 8)						
SEMI-ANNUAL TOTAL	23,025 ($\pm 10,767$)	61,842 ($\pm 21,699$)	14,799 ($\pm 4,092$)	10,760 ($\pm 2,946$)	20,008 ($\pm 7,558$)	1,455 (± 624)						

Table B45. Angler pressure estimates ($\pm 95\%CI$) of each stratum for Spokane Arm Lake Roosevelt, 1989.

	JAN	FEB	MAR	APR	MAY	JUN
SPOKANE ARM 1989	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	0	0	0	0	386 (± 111)	19,598 ($\pm 8,425$)
Weekday (AM) Shore	1,423 (± 520)	362 (± 71)	397 (± 123)	96 (± 29)	338 (± 49)	392 (± 57)
Weekday (PM) Boat	0	0	0	0	699 (± 280)	24,657 ($\pm 11,288$)
Weekday (PM) Shore	773 (± 178)	300 (± 65)	414 (± 120)	449 (± 166)	1,568 (± 185)	537 (± 91)
Weekend (AM) Boat	34 (± 18)	0	0	0	851 (± 337)	22,320 ($\pm 2,496$)
Weekend (AM) Shore	378 (± 182)	1600 (± 419)	288 (± 94)	0	235 (± 59)	0
Weekend (PM) Boat	81 (± 26)	0	0	0	1,056 (± 518)	39,848 ($\pm 30,110$)
Weekend (PM) Shore	0	245 (± 39)	672 (± 140)	135 (± 39)	260 (± 49)	0
SEMI-ANNUAL TOTAL	2,710 (± 924)	2,507 (± 593)	1,771 (± 477)	679 (± 233)	5,394 ($\pm 1,587$)	107,353 ($\pm 52,468$)

	JUL	AUG	SEP	OCT	NOV	DEC
SPOKANE ARM 1989	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)	Ang. Hrs ($\pm 95\%CI$)
Weekday (AM) Boat	20,708 ($\pm 13,218$)	4,145 ($\pm 1,427$)	0	3,079 ($\pm 1,152$)	679 (± 223)	787 (± 215)
Weekday (AM) Shore	69 (± 15)	175 (± 53)	299 (± 85)	493 (± 124)	65 (± 26)	126 (± 37)
Weekday (PM) Boat	14,077 ($\pm 11,987$)	7,056 ($\pm 1,329$)	3,255 (± 677)	4,488 (± 475)	187 (± 75)	57 (± 16)
Weekday (PM) Shore	252 (± 34)	0	1,448 (± 533)	0	0	45 (± 9)
Weekend (AM) Boat	5,615 (± 559)	9,368 ($\pm 2,366$)	0	0	70 (± 16)	405 (± 147)
Weekend (AM) Shore	0	0	234 (± 71)	206 (± 47)	14 (± 3)	0
Weekend (PM) Boat	8,375 ($\pm 1,339$)	2,780 ($\pm 1,946$)	0	0	115 (± 75)	0
Weekend (PM) Shore	478 (± 113)	168 (± 42)	2,079 (± 247)	0	27 (± 8)	0
SEMI-ANNUAL TOTAL	49,573 ($\pm 27,265$)	23,693 ($\pm 7,164$)	7,315 ($\pm 1,613$)	8,266 ($\pm 1,798$)	1,158 (± 427)	1,420 (± 424)

Table 846. Percent fish species targeted for by Lake Roosevelt anglers, 1988 and 1989.

LAKE ROOSEVELT ANGLER TARGET SPECIES

	RBT (n)	KOK (n)	LKWF (n)	WE (n)	YP (n)	SMB (n)	BC (n)	STU (n)	BUR (n)	TOTAL						
AUG 88	55%	229	0	0	40%	170	0	5%	19	0	0	0	0	418		
SEP 88	70%	190	6%	15	0	22%	58	0	2%	5	0	0	0	268		
OCT 88	65%	160	20%	48	0	12%	30	0	2%	4	0	1%	2	244		
NOV 88	96%	89	0	0	4%	4	0	0	0	0	0	0	0	93		
DEC 88	92%	170	4%	8	0	4%	6	0	0	0	0	0	0	184		
JAN 89	98%	299	1%	2	0	1%	2	0	0	0	0	0	0	303		
FEB 89	97%	226	1%	2	0	2%	5	0	0	0	0	0	0	233		
MAR 89	78%	171	6%	13	0	7%	15	0	0	0	0	8%	16	1%	2	217
APR 89	78%	317	8%	32	0	7%	27	0	0	1%	2	6%	26	0	404	
MAY 89	51%	154	3%	9	0	32%	95	1%	1	0	0	13%	39	0	298	
JUN 89	22%	70	1%	3	0	58%	180	0	3%	8	0	16%	50	0	311	
JUL 89	13%	47	2%	8	0	53%	199	1%	5	1%	4	30%	115	0	378	
AUG 89	22%	84	1%	5	0	52%	203	0	0	0	0	25%	96	0	388	
SEP 89	21%	75	21%	72	0	39%	138	0	0	0	0	19%	66	0	351	
OCT 89	39%	63	11%	18	1%	1	26%	42	0	0	0	23%	36	0	160	
NOV 89	38%	89	1%	3	0	53%	125	1%	1	0	0	7%	16	0	234	
DEC 89	89%	135	1%	2	0	9%	12	0	0	0	0	1%	2	0	151	
TOTAL	55%	2568	5%	240	1	28%	1311	1%	7	1%	40	2	10%	464	4635	

Species code: RBT-Rainbow trout WE-Walleye BCRAP-Black Crappie
 KOK-Kokanee YP-Yellow Perch ST&Sturgeon
 LKWF-Lake Whitefish SMB-Smallmouth Bass BUR-Burbot

NORTHERN FDR ANGLER TARGET SPECIES

Table 847. Percent fish species targeted for by Northern FDR anglers, 1988 and 1989.

	RAINBOW TROUT	(n)	WALLEYE	(n)	STURGEON	(n)	BURBOT	(n)	YELLOW PERCH	(n)	TOTAL
AUG 88	36%	8	64%	14							22
SEP 88	68%	8	32%	7							22
OCT 88	88%	16			12%	2					18
NOV 88	100%	6									6
DEC 88	100%	25									25
JAN 89	100%	102									102
FEB 89	100%	86									86
MAR 89	72%	64	8%	6	18%	16	2%	2			88
APR 89	77%	146	9%	17	14%	26					189
MAY 89	37%	68	42%	77	21%	39					184
JUN 89	12%	26	64%	133	24%	50					209
JUL 89	3%	9	54%	144	43%	115					268
AUG 89	9%	21	51%	123	40%	96					240
SEP 89	17%	36	53%	115	30%	66					217
OCT 89	23%	24	35%	26	42%	36					86
NOV 89	45%	35	32%	125	21%	16			2%	1	77
DEC 89	86%	69	11%	9	3%	2					80
TOTAL	37%	749	40%	796	23%	464	0%	2	0%	1	2012

MIDDLE FDR ANGLER TARGET SPECIES

Table 848. Percent fish species targeted for by MIDDLE FDR anglers, 1988 and 1989.

	RAINBOW TROUT	(n)	KOKANEE	(n)	WALLEYE	(n)	SMB	(n)	YELLOWPERCH	(n)	TOTAL
AUG 88	66%	106		0	34%	55		0		0	161
SEP 88	78%	90		0	20%	23	2%	2		0	115
OCT 88	90%	94	2%	2	8%	8		0		0	104
NOV 88	95%	63		0	5%	3		0		0	66
DEC 88	94%	92		0	6%	6		0		0	98
JAN 89	90%	36	5%	2	5%	2		0		0	40
FEB 89	89%	32	5%	2	6%	2		0		0	36
MAR 89	64%	25	21%	8	15%	6		0		0	39
APR 89	76%	37	10%	5	14%	7		0		0	49
MAY 89	29%	5	24%	4	47%	8		0	1%	1	17
JUN 89	76%	22		0	24%	7		0		0	29
JUL 89	12%	4	15%	5	73%	25		0		0	34
AUG 89	58%	49	3%	3	39%	33		0		0	85
SEP 89	80%	6	7%	7	13%	2		0		0	15
OCT 89	74%	30	3%	1	23%	9		0		0	40
NOV 89	89%	49	11%	3		0		0		0	52
DEC 89	100%	43		0		0		0		0	43
TOTAL	77%	783	4%	42	19%	196	0%	2	0%	1	1023

SOUTHERN FDR ANGLER TARGET SPECIES

Table B49. Percent fish species targeted for by Southern FDR anglers, 1988 and 1989.

	RAINBOW TROUT	(n)	KOKANEE	(n)	WALLEYE	(n)	SMALL MOUTH BASS	(n)	BLACK CRAPPIE	(n)	YELLOW PERCH	(n)	TOTAL
AUG 88	42%	44			39%	41	18%	19					104
SEP 88	83%	43			12%	6	6%	3					52
OCT 88	88%	29					12%	4					33
NOV 88	100%	9											9
DEC 88	82%	37	18%	8									45
JAN 89	100%	120											120
FEB 89	100%	90											90
MAR 89	93%	70	7%	5									75
APR 89	82%	128	17%	27					1%	2			157
MAY 89	91%	68	5%	4	4%	3							75
JUN 89	55%	18	9%	3	12%	4	24%	8					33
JUL 89	63%	32	6%	3	14%	7	8%	4			10%	5	51
AUG 89	75%	6			25%	2							8
SEP 89	100%	10											10
OCT 89	80%	8	20%	2									10
NOV 89	100%	3											3
DEC 89	89%	16	11%	2									18
TOTAL	82%	731	6%	54	7%	63	4%	38	0%	2	1%	5	893

SPOKANE ARM FDR ANGLER TARGET SPECIES

Table B50. Percent fish species targeted for by Spokane Arm FDR anglers, 1988 and 1989.

	RAINBOW TROUT (n)		MOKANEE (n)		WALLEYE (n)		SMB (n)		LKWF (n)		TOTAL
AUG 88	54%	71		0	46%	60		0		0	131
SEP 88	57%	49	17%	15	26%	22		0		0	86
OCT 88	24%	21	51%	46	25%	22		0		0	89
NOV 88	92%	11		0	a%	1		0		0	12
DEC 88	100%	16		0		0		0		0	16
JAN 89	100%	41		0		0		0		0	41
FEB 89	a6%	1a		0	14%	3		0		0	21
MAR 89	71%	12		0	29%	5		0		0	17
APR 89	67%	6		0	33%	3		0		0	9
MAY 89	65%	13	5%	1	30%	6		0		0	20
JUN 89	10%	4		0	90%	36		0		0	40
JUL 89	8%	2		0	92%	23		0		0	25
AUG 89	14%	a	4%	2	a2%	45		0		0	55
SEP 89	3%	3	73%	65	24%	21		0		0	89
OCT 89	4%	1	63%	15	29%	7		0	4%	1	24
NOV 89	100%	2		0		0		0		0	2
DEC 89	70%	7		0	30%	3		0		0	10
TOTAL	41%	285	21%	144	38%	269	0%	0	1%	1	699

Table B51. Number of net pen, native, and unknown rainbow trout recorded each month during Lake Roosevelt creel surveys August 1988 to December 1989.

Date	Northern FDR			MID FDR			Southern FDR			Spokane Arm FDR		
	Net Pen	Native	Unknown	Net Pen	Native	Unknown	Net Pen	Native	Unknown	Net Pen	Native	Unknown
8/88	4	3	2	19	1	3	25	15	28	3	0	5
9/88	3	1	2	31	10	6	12	9	7	5	1	3
10/88	7	0	2	5	1	5	1	6	5	1	1	0
11/88	5	2	7	35	8	12	0	3	2	7	3	0
12/88	9	0	3	91	11	12	7	6	13	6	1	3
1/89	10	1	16	9	0	2	45	12	17	15	11	4
2/89	12	0	9	15	0	4	28	9	12	5	1	1
3/89	29	0	0	4	1	0	19	11	19	3	0	1
4/89	22	4	4	3	1	0	63	14	11	1	0	3
5/89	1	0	5	5	0	3	42	2	10	0	0	1
6/89	1	1	2	7	1	0	3	0	0	0	0	3
7/89	5	0	1	3	0	6	18	5	0	1	3	3
8/89	3	0	0	12	3	8	5	1	0	2	1	0
9/89	1	2	2	7	0	2	4	2	0	2	0	2
10/89	3	0	3	7	0	0	9	2	1	2	0	0
11/89	19	4	7	47	3	3	4	0	0	2	0	0
12/89	109	1	0	31	0	0	4	2	1	5	0	0
TOTAL	243	19	65	331	40	66	296	103	126	60	22	29

APPENDIX C

LAKE ROOSEVELT RELATIVE
ABUNDANCE SURVEYS
DATA

Table C1. Number and percent of fish captured by electrofishing at each Lake Roosevelt sample site for the month of August, 1988.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Shock Time	31.3	20.0	40.8	70.0	60.0	30.0	30.0	60.0	50.5	392.6
Chinook Salmon					1 (0.4)					1 (.1)
Kokanee					13 (4.6)					13 (.9)
Rainbow Trout	3 (2.6)	2 (13.0)	9 (3.3)	3 (1.3)	12 (4.2)	11 (13.8)		1 (0.4)	1 (3.0)	42 (3.1)
Brown Trout					9 (3.2)					9 (.7)
Lake Whitefish					1 (0.4)					1 (.1)
Largemouth Bass	1 (0.9)				1 (0.4)			5 (1.9)		7 (.5)
Largemouth B. Fry					14 (4.9)					14 (1.0)
Smallmouth Bass			2 (0.7)	4 (1.8)			13 (35.1)	6 (2.3)	8 (24.2)	33 (2.5)
Smallmouth B. Fry								27 (10.2)		27 (2.0)
Pumpkinseed	1 (0.9)									1 (.1)
Black Crappie				59 (25.8)						59 (4.4)
Yellow Perch	18 (15.7)		53 (19.2)	62 (27.2)	86 (30.2)	1 (1.3)	1 (2.7)	164 (62.1)		385 (28.9)
Walleye	51 (44.0)	5 (33.3)	56 (20.3)	80 (35.1)	36 (12.6)	22 (27.5)	7 (18.9)	6 (2.1)	8 (24.2)	271 (20.3)
Largescale Sucker	7 (6.0)	5 (33.3)	5 (1.8)	4 (1.8)	38 (13.3)	17 (21.3)	6 (16.2)	31 (11.7)	9 (27.3)	122 (9.1)
Longnose Sucker					3 (1.1)					3 (.2)
Bridgip Sucker					18 (6.3)				4 (12.1)	22 (1.6)
Sucker Fry			147 (53.6)							147 (11.0)
North. Squawfish	33 (28.4)	2 (13.0)	1 (0.4)	10 (4.4)	10 (3.5)	5 (6.3)	8 (21.6)	19 (7.2)	3 (9.1)	91 (6.8)
Carp			2 (0.7)	1 (0.4)	2 (0.7)	4 (5.0)	2 (5.4)			11 (.8)
Carp Fry	1 (0.9)	1 (6.7)				19 (23.8)				21 (1.6)
Tench	1 (0.9)					11 (3)				2 (.1)
Chiselmouth				1 (1.4)	1 (0.4)					2 (.1)
Peamouth					20 (7.0)					20 (1.5)
Sculpin			5		20 (7.0)			5 (1.9)		30 (2.2)
TOTAL	116	15	280	224	285	80	37	264	33	1334

Table C2. Number and percent of fish captured by gillnetting at each Lake Roosevelt sample site for the month of August, 1988.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Net Soak Time/hrs	16.5	16.5	56	17.5	16.5	21.0	30.0	14.5	16.0	204.5
Lake Whitefish	3 (10.7)		1 (1.5)		1 (20.0)			2 (5.7)		7 (3.1)
Largemouth Bass	1 (3.6)									1 (.4)
Smallmouth Bass							19 (34.5)	1 (2.9)		20 (8.8)
Yellow Perch	2 (7.1)		3 (4.4)	1 (4.3)						6 (2.7)
Walleye	20 (71.4)	6 (66.7)	26 (38.2)	7 (30.4)	2 (40.0)	1 (100)	4 (7.3)	14 (40)	2 (100.0)	82 (36.3)
Largescale Sucker	1 (3.6)		34 (50)	14 (60.9)	2 (40.0)		17 (30.9)	13 (37.1)		81 (35.8)
Longnose Sucker	1 (3.6)	3 (33.3)	1 (1.5)							5 (2.2)
Bridgelip Sucker			3 (4.4)							3 (1.3)
North. Squawfish				1 (4.3)			9 (16.4)	5 (14.3)		15 (6.6)
Peamouth							5 (9.0)			5 (2.2)
Burbot							1 (1.8)			1 (.4)
TOTAL	28	9	68	23	5	1	55	35	2	226

Table C3. Number and percent of fish captured by electrofishing at each Lake Roosevelt sample site for the month of October, 1988.

Site Number	1	2	3	4	5	6	7	8	9	I	TOTAL
Shock Time	52.8	30.0	104.0	30.0	91.3	81.4	20.7	30.0	28.5		4 6 9 . 0
Chinook Salmon		1 (1.5)			8 (1.7)	1 (.2)					10 (.5)
Kokanee					135 (29.1)	23 (4.4)	1 (.9)		5 (8.6)		164 (8.9)
Rainbow Trout	65 (23.3)	3 (4.5)	74 (42.8)	4 (4.4)	19 (4.1)	39 (7.5)	7 (6.8)	42 (46.7)	15 (25.9)		268 (14.6)
Brown Trout	1 (.4)				18 (3.9)						19 (1.0)
Brook Trout	1 (.4)										1
Cutthroat Trout	1 (.4)										1
Mnt. Whitefish											
Largemouth Bass		1 (1.5)			23 (5.0)	2 (.4)					26 (1.4)
Smallmouth Bass						1 (.2)	4 (3.9)				5 (.3)
Pumpkinseed				3 (3.3)							3 (.2)
Black Crappie				2 (2.2)	9 (1.9)	3 (.6)					14 (.8)
Yellow Perch	64 (22.9)	21 (31.8)	48 (27.7)	46 (51.1)	79 (17.0)	359 (69.3)	11 (10.7)	2 (2.2)	3 (5.2)		633 (34.4)
Walleye	52 (18.6)	18 (27.3)	16 (9.2)	18 (20.0)	92 (19.8)	13 (2.5)	37 (35.9)	34 (37.8)	23 (39.7)		303 (16.5)
Largescale Sucker	22 (7.9)	4 (6.1)	3 (1.7)	6 (6.7)	12 (2.6)	58 (11.2)	38 (36.9)	7 (7.8)	10 (17.2)		160 (8.7)
Bridgelip Sucker	6 (2.2)	3 (4.5)			2 (.4)	8 (1.5)					19 (1.0)
Sucker Fry	47 (16.8)	2 (3.0)	5 (2.9)	6 (6.7)	39 (8.4)	1 (.2)					100 (5.4)
North. Squawfish	20 (7.2)	8 (12.1)	11 (6.4)		11 (2.4)	6 (1.2)	1 (.9)	3 (3.3)	2 (3.4)		62 (3.4)
Peamouth		4 (6.1)					1 (.9)				5 (.3)
Carp			4 (2.3)	2 (2.2)	1 (.2)	2 (.4)	1 (.9)	1 (1.1)			11 (.6)
Yellow Bullhead							1 (.9)				1
Sculpin			11 (6.4)	3 (3.3)	13 (2.8)	1 (.2)					28 (1.5)
Burbot		1 (1.5)	1 (.6)		3 (.6)	1 (.2)	1 (.9)	1 (1.1)			8 (.4)
TOTAL	279	66	173	90	464	518	103	90	58		1841

Table C4. Number and percent of fish captured by gillnetting at each Lake Roosevelt sample site for the month of October, 1988.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Net Soak Time (hrs)	11.0	13.5	40.5	9.5	31.8	9.5	12.3	24.0	8.0	160.1
Kokanee					1 (25)					1 (.6)
Rainbow Trout			6 (17.6)						2 (15.4)	8 (4.7)
Lake Whitefish	1 (11.1)	1 (4.5)		5 (18.5)		2 (66.7)		8 (27.6)		17 (9.9)
Walleye	4 (44.4)	12 (54.5)	13 (38.2)	6 (22.2)	2 (50)	1 (33.3)	7 (22.6)	9 (31)	4 (30.8)	58 (33.7)
Yellow Perch		5 (22.7)		4 (14.8)			4 (12.9)	9 (31)		22 (12.8)
Smallmouth Bass			1 (2.9)				4 (12.9)			5 (2.9)
Pumpkinseed								1 (3.4)		1 (.6)
Largescale sucker	4 (44.4)		11 (32.4)	10 (37.0)	1 (25)		15 (48.4)		5 (38.5)	46 (26.7)
Bridgelip sucker			1 (2.9)	1 (3.7)						2 (1.2)
Peamouth		4 (18.2)						2 (6.9)		6 (3.5)
North. Squawfish			2 (5.9)	1 (3.7)			1 (3.2)		2 (15.4)	6 (3.5)
TOTAL	9	22	34	27	4	3	31	29	13	172

Table C5. Number and percent of fish captured by electrofishing at each Lake Roosevelt sample site for the month of May, 1989.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Shock Time (min)	41.3	51.0	41.0	81.9	102.6	30.0	51.7	30.0	31.0	460.5
Kokanee				1 (.6)	11 (4.4)		1 (.9)		5 (7.4)	18 (1.5)
Rainbow Trout	11 (9.6)	7 (7.5)	7 (7.4)	9 (5.2)		8 (5.9)	30 (26.8)	61 (34.1)	4 (5.9)	137 (11.2)
Brown Trout	1 (.9)				5 (2.0)					6 (.5)
Brook Trout		1 (1.1)			1 (.4)					2 (.2)
Dolly Varden								1 (.6)		1 (.1)
Lake Whitefish	1 (.9)		1 (1.1)	1 (.6)						3 (.2)
Largemouth Bass				2 (1.1)	1 (.4)					3 (.2)
Smallmouth Bass		1 (1.1)	2 (2.1)	8 (4.6)	1 (.4)	2 (1.5)	3 (2.7)	2 (1.1)	1 (1.5)	20 (1.6)
Black Crappie										
Pumpkinseed	4 (3.5)									4 (.3)
Walleye	18 (15.8)	18 (19.4)	28 (29.5)	87 (50)	139 (56.0)	71 (52.2)	20 (17.9)	85 (47.5)	16 (23.5)	482 (39.5)
Yellow Perch	12 (10.5)	1 (1.1)	5 (5.3)	10 (5.7)	10 (4.0)	4 (2.9)	6 (5.4)	6 (3.4)	2 (2.9)	56 (4.6)
Largescale Sucker	30 (26.3)	24 (25.8)	37 (38.9)	27 (15.5)	50 (20.2)	28 (20.6)	25 (22.3)	19 (10.6)	25 (36.8)	265 (21.7)
Bridgelip Sucker	3 (2.6)	6 (6.5)	3 (3.2)	8 (4.6)	9 (3.6)	3 (2.2)	4 (3.6)		1 (1.5)	37 (3.0)
Longnose Sucker	1 (.9)	1 (1.1)	3 (3.2)							5 (.4)
Sucker Fry	12 (10.5)	9 (9.7)		12 (6.9)	3 (1.2)	7 (5.1)	6 (5.4)		3 (4.4)	52 (4.3)
North. Squawfish	12 (10.5)	15 (16.1)	5 (5.3)	4 (2.3)	12 (4.8)	11 (8.1)	11 (9.8)	2 (1.1)	11 (16.2)	83 (6.8)
Carp	2 (1.8)	2 (2.2)	2 (2.1)	3 (1.7)	4 (1.6)	2 (1.5)	5 (4.5)	3 (1.7)		23 (1.9)
Peamouth		6 (6.5)	1 (1.1)							7 (.6)
Sculpin	7 (6.1)	2 (2.2)		2 (1.1)	2 (.8)		1 (.9)			14 (1.1)
Burbot			1 (1.1)							1 (.1)
TOTAL	114	93	95	174	248	136	112	179	68	1219

Table C6. Number and percent of fish captured by gillnetting at each Lake Roosevelt sample site for the month of May, 1989.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Net Soak Time/hrs	13.8	11.5	16.5	18.8	0.0	19.5	8.0	6.0	29.5	129.6
Rainbow Trout	1 (2.7)							2 (4.2)		3 (1.9)
Brown Trout										
Brook Trout										
Dolly Varden										
Lake Whitefish	13 (35.1)	7 (58.3)	4 (80)	4 (66.7)		2 (33.3)	1 (2.6)			31 (20.1)
Largemouth Bass										
Smallmouth Bass							17 (43.6)	6 (12.5)		23 (14.9)
Black Crappie										
Pumpkinseed										
Walleye	10 (27.0)		1 (20)	2 (33.3)		1 (16.7)	16 (41.0)	13 (27.1)	1 (.1)	44 (28.6)
Yellow Perch								5 (10.4)		5 (3.2)
Largescale Sucker	9 (24.3)	1 (8.3)				3 (50)		15 (31.3)		28 (18.2)
Bridgelip Sucker	1 (2.7)	2 (16.6)								3 (1.9)
Longnose Sucker		1 (8.3)								1 (.6)
Sucker Fry										
North. Squawfish	3 (8.1)						5 (12.8)	7 (14.6)		15 (9.7)
Carp										
Peamouth										
Burbot		1 (8.3)								1 (.6)
TOTAL	37	12	5	6	0	6	39	48	1	154

Table C7. Number and percent of fish captured by electrofishing at each Lake Roosevelt sample site for the month of August, 1989.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Shock Time	52.6	62.4	72.2	31.4	90.5	51.9	70.7	85.1	30.0	546.8
Kokanee		1 (.4)			2 (.4)					3 (.1)
Rainbow Trout		12 (4.8)	6 (3.1)	20 (5.4)	28 (5.4)	19 (2.8)	5 (4.3)	20 (2.6)	9 (5.3)	119 (4.2)
Brown Trout	3 (1.0)				8 (1.5)					11 (.4)
Brook Trout										
Lake Whitefish	1 (.4)		1 (.5)		4 (2.7)					6 (.2)
Mnt. Whitefish		2 (.8)	2 (1.0)		1 (.2)					5 (.2)
Largemouth Bass				12 (3.2)		12 (2.3)	1 (.1)			25 (.9)
Smallmouth Bass				5 (1.3)	5 (.9)	3 (2.0)	8 (6.9)	15 (1.9)	10 (5.6)	46 (1.6)
Black Crappie		2 (.8)		18 (4.8)		17 (3.3)		5 (.7)		42 (1.5)
Yellow Perch	28 (9.8)	22 (8.8)	26 (3.6)	246 (66.1)	139 (26.8)	49 (33.1)	33 (28.4)	607 (79.3)	41 (23.9)	1007 (42.3)
Walleye	76 (26.7)	25 (10.0)	87 (45.5)	22 (5.9)	83 (16.0)	30 (20.3)	9 (7.8)	43 (5.6)	24 (14.0)	399 (14.2)
Largescale Sucker	24 (8.4)	4 (1.6)	25 (13.1)	5 (1.3)	86 (16.6)	20 (13.5)	15 (12.9)	35 (4.6)	30 (7.5)	244 (8.7)
Longnose Sucker	1 (.4)	1 (.4)	1 (.5)		2 (.4)				1 (.6)	6 (.2)
Bridgelip Sucker	2 (.7)	1 (.4)	1 (.5)	1 (.3)	15 (2.9)		1 (.9)	3 (.4)	5 (2.9)	29 (1.0)
Sucker Fry	64 (22.5)	100 (40.2)	25 (13.1)	21 (5.6)	82 (15.8)	37 (31.9)	13 (1.7)	16 (9.4)		358 (12.7)
North. Squawfish	51 (17.9)	26 (10.4)	5 (2.6)	13 (3.5)	14 (2.7)	7 (4.7)	2 (1.7)	9 (1.2)	19 (11.1)	146 (5.2)
Carp	21 (7.4)	35 (4.0)	4 (2.1)	5 (1.3)	2 (.4)	9 (6.1)		5 (.7)	2 (1.2)	84 (2.9)
Tench		1 (.4)	1 (.5)	1 (.3)						3 (.1)
Pearmouth		2 (.8)								2 (.1)
Sculpin	11 (3.9)	12 (4.8)	6 (3.2)	2 (.5)	22 (4.2)	4 (2.7)	3 (1.9)	6 (.8)	14 (8.2)	80 (2.9)
Yellow Bullhead	1 (.4)	1 (.4)					1 (.9)	1 (.1)		4 (.1)
Burbot	1 (.4)	2 (.8)	1 (.5)		1 (.3)	2 (2.0)	1 (.9)	2 (.3)		11 (.4)
TOTAL	284	249	191	372	518	148	116	765	171	2814

Table C8. Number and percent of fish captured by gillnetting at each Lake Roosevelt sample site for the month of August, 1989.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Soak Time (hrs)	15.5	35.0	30.0	36.0	11.5	9.8	35.0	34.5	15.0	222.3
Kokanee	2 (5.3)	1 (9.1)								3 (.7)
Rainbow Trout	2 (5.3)	1 (9.1)		3 (2.6)		3 (9.7)	1 (4.2)	1 (.7)		11 (2.7)
Brown Trout										
Brook Trout										
Lake Whitefish	21 (55.3)			47 (40.5)		19 (61.3)	1 (4.2)	68 (47.9)		156 (37.8)
Mnt. Whitefish										
Large-mouth Bass										
Smallmouth Bass				4 (3.4)					12 (57.1)	16 (3.9)
Black Crappie										
Yellow Perch		1 (9.1)	1 (3.2)					3 (2.1)	3 (14.3)	4 (1.9)
Walleye	10 (26.3)	3 (27.3)	26 (83.9)	46 (39.7)		6 (19.4)	20 (23.3)	15 (10.6)	5 (23.8)	131 (31.7)
Idaho Scale Sucker				12 (10.3)		3 (9.7)		48 (33.8)	1 (4.8)	64 (15.5)
Longnose Sucker	2 (5.3)	3 (27.3)	1 (3.2)							6 (1.4)
Bridgelip Sucker										
Sucker Fry										
North. Squawfish			2 (6.5)	4 (3.4)			1 (4.2)	7 (4.9)		14 (3.4)
Carp										
Tench										
Pearmouth		2 (18.2)								2 (.5)
Sculpin										
Yellow Bullhead										
Burbot			1 (3.2)				1 (4.2)			2 (.5)
Sturgeon	1 (2.6)									1 (.2)
TOTAL	38	11	31	116	0	31	24	142	21	413

Table C9. Number and percent of fish captured by electrofishing at each Lake Roosevelt sample site for the month of October, 1989.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Shock Time (min)	30.3	31.3	90.0	30.2	145.9	30.5	41.3	30.5	29.9	459.9
Chinook Salmon					1 (.5)					1
Kokanee			1 (.3)		28 (12.8)	31 (28.4)		39 (6.3)	7 (4.2)	106 (4.2)
Rainbow Trout	13 (13.5)	4 (6.2)	19 (6.5)	7 (1.2)	4 (1.8)	9 (8.3)	6 (1.6)	21 (3.4)	38 (22.9)	121 (4.8)
Brown Trout	1 (1)				3 (1.4)					4 (.2)
Brook Trout			1 (1.3)							1
Lake Whitefish	4 (4.2)	2 (3.1)	12 (4.1)			3 (2.8)		2 (.3)		23 (.9)
Mnt. Whitefish								9 (1.5)		9 (.4)
Largemouth Bass			1 (.3)		19 (8.7)					20 (.8)
Smallmouth Bass			2 (.7)		1 (.5)	1 (.9)			1 (.6)	5 (.2)
Black Crappie			1 (.3)							1
Pumpkinseed			1 (.3)							1
Walleye	1 (1)	6 (9.2)	88 (29.9)	18 (3.1)	31 (14.2)	6 (5.5)	11 (2.9)	7 (1.1)	4 (2.4)	172 (6.8)
Yellow Perch	33 (34.4)	18 (27.7)	96 (32.7)	487 (83.5)	44 (20.1)	22 (20.2)	350 (91.1)	480 (77.2)	85 (51.2)	1615 (63.6)
Largescale Sucker	35 (36.5)	25 (38.5)	40 (13.6)	30 (5.2)	39 (17.8)	21 (19.3)	9 (2.3)	59 (9.5)	17 (10.2)	275 (10.8)
Bridgelip Sucker			3 (1)	10 (1.7)	1 (.5)		4 (1)		8 (4.8)	26 (1.0)
Sucker Fry	3 (3.1)	9 (13.9)	12 (4.1)	17 (2.9)	12 (5.5)	7 (6.4)	1 (.3)		5 (3)	66 (2.6)
North. Squawfish	6 (6.3)	1 (1.5)	8 (2.7)	5 (.9)	7 (3.2)	4 (3.7)				31 (1.2)
Carp			2 (.7)	3 (.5)	3 (1.4)	2 (1.a)				10 (.4)
Peamouth									1 (.6)	1
Yellow Bullhead							1 (.3)			1
Sculpin			2 (.7)	5 (.9)	26 (11.9)		1 (.3)	4 (.6)		38 (1.5)
Burbot			5 (1.7)	1 (.2)		3 (2.8)	1 (.3)	1 (.2)		11 (.4)
TOTAL	96	65	294	583	219	109	644	622	166	2538

Table C10. Number and percent of fish captured by gillnetting at each Lake Roosevelt sample site for the month of October, 1989.

Site Number	1	2	3	4	5	6	7	8	9	TOTAL
Net Soak Time/hrs	16.0	17.4	27.0	7.5	4.0	10.0	6.0	4.0	20.0	111.9
Chinook Salmon										
Kokanee	2 (6.3)									2 (1.0)
Rainbow Trout	3 (9.4)							2 (6.5)		5 (2.4)
Brown Trout										
Lake Whitefish	15 (46.9)	2 (6.3)	22 (73.3)		1 (11.1)			12 (38.7)		52 (24.8)
Mnt. Whitefish								2 (6.5)		2 (1.0)
Large-mouth Bass										
Smallmouth Bass				1 (3.8)				2 (6.5)	2 (5.7)	5 (2.4)
Black Crappie										
Pumpkinseed										
Walleye	7 (21.9)	21 (65.6)	4 (13.3)	2 (7.7)	7 (77.8)	9 (100)			25 (71.4)	75 (35.7)
Yellow Perch	1 (3.1)	4 (12.5)		10 (38.5)			2 (33.3)	9 (29.0)		26 (12.4)
Large-scale Sucker		3 (9.4)	2 (6.7)	5 (19.2)			3 (50.0)	4 (12.9)	7 (20.0)	24 (11.4)
Longnose Sucker	3 (9.4)									3 (1.4)
Bridgelip Sucker				5 (19.2)						5 (2.4)
Sucker Fry										
North. Squawfish			2 (6.7)	3 (11.5)	1 (11.1)		1 (16.7)			7 (3.3)
Carp										
Peanmouth		2 (6.3)								2 (1.0)
Yellow Bullhead									1 (2.9)	1 (.5)
Sculpin										
Burbot	1 (3.1)									1 (.5)
TOTAL	32	32	30	26	9	9	6	31	33	210

of

APPENDIX D

AGE, GROWTH, CONDITION FACTOR, and BACKCALCULATION VALIDATION DATA

Species Code	Common Name	Scientific Name
RBT	Rainbow Trout	<i>Oncorhynchus mykiss</i>
KOK	Kokanee Salmon	<i>Oncorhynchus nerka</i>
WE	Walleye	<i>Stizostedion vitreum vitreum</i>
LKWF	Lake Whitefish	<i>Coregonus cutpeaformis</i>
LMB	Largemouth Bass	<i>Micropterus salmoides</i>
SMB	Smallmouth Bass	<i>Micropterus dolomieu</i>
CHIN	Chinook Salmon	<i>Oncorhynchus tshawytscha</i>

Table D1. Age, growth and condition data for Lake Whitefish collected from Lake Roosevelt, 1989.

Fish No	Date	species	Age	Weight (g)	Capture Length(mm)	Condition Factor
30	Aug-89	LWF	1+	288	305	1.02
23	Aug-89	LWF	1+	285	310	0.96
21	Ott-89	LWF	1+	104	210	1.12
54	Oct-89	LWF	1+	107	200	1.34
55	Oct-89	LWF	1+	89	208	0.99
53	Ott-89	LWF	1+	88	155	2.36
52	Ott-89	LWF	1+	95	215	0.96
50	Ott-89	LWF	1+	83	210	0.90
49	Ott-89	LWF	1+	76	196	1.01
48	Ott-89	LWF	1+	110	212	1.15
46	Ott-89	LWF	1+	98	228	0.83
45	Ott-89	LWF	1+	114	220	1.07
43	Ott-89	LWF	1+	94	198	1.21
93	Aug-89	LWF	2+	513	386	0.89
4	Ott-89	LWF	2+	330	315	1.06
5	Ocl-89	LWF	2+	140	251	0.89
NO #	Ott-89	LWF	2+	.	233	.
L.V. FIN CLIP	Ott-89	LWF	2+	.	225	.
21	May-89	LWF	3+	1418	506	1.09
33	May-89	LWF	3+	.	520	.
34	May-89	LWF	3+	943	460	0.97
26	May-89	LWF	3+	959	430	1.21
32	Aug-89	LWF	3+	1233	490	1.05
33	Aug-89	LWF	3+	1441	492	1.21
33	Aug-89	LWF	3+	1298	480	1.17
26	Aug-89	LWF	3+	980	433	1.21
145	Aug-89	LWF	3+	1104	450	1.21
141	Aug-89	LWF	3+	1546	510	1.17
139	Aug-89	LWF	3+	1303	476	1.21
113	Aug-89	LWF	3+	1294	514	0.95
84	Aug-89	LWF	3+	1144	475	1.07
80	Aug-89	LWF	3+	1093	473	1.03
50	Aug-89	LWF	3+	605	382	1.09
9561	Ott-89	LWF	3+	.	464	.
9560	Ott-89	LWF	3+	.	445	.
109566	Ott-89	LWF	3+	.	456	.
109559 act-89	LWF	3+	.	486	.	.
15	Ocl-89	LWF	3+	1350	475	1.26
42	Oct-89	LWF	3+	678	377	1.27
14	Ott-89	LWF	3+	529	367	1.07
?	act-89	LWF	3+	520	380	0.95
25934	act-89	LWF	3+	.	317	.
2	May-89	LWF	4+	575	374	1.10
19	May-89	LWF	4+	1995	578	1.03
20	May-89	LWF	4+	1215	490	1.03
22	May-89	LWF	4+	1233	566	0.68
23	May-89	LWF	4+	1381	522	0.97
24	May-89	LWF	4+	1433	520	1.02
19	May-89	LWF	4+	1603	531	1.07
20	May-89	LWF	4+	1289	505	1.00
24	May-89	LWF	4+	1093	492	0.92
31	May-89	LWF	4+	1292	510	0.97
32	May-89	LWF	4+	1644	549	0.99
27	May-89	LWF	4+	963	418	1.32
28	Aug-89	LWF	4+	1470	490	1.25
34	Aug-89	LWF	4+	1698	532	1.13
35	Aug-89	LWF	4+	1452	510	1.09
36	Aug-89	LWF	4+	1592	556	0.92
37	Aug-89	LWF	4+	1153	499	0.93
38	Aug-89	LWF	4+	1698	546	1.04
24	Aug-89	LWF	4+	1501	510	1.13
26	Aug-89	LWF	4+	1859	521	1.31
27	Aug-89	LWF	4+	2149	572	1.15
28	Aug-89	LWF	4+	2049	565	1.14
29	Aug-89	LWF	4+	2394	557	1.39

Table D1. continuad...

Fish No	Date	Species	Age	Weight (g)	Capture Length(mm)	Condition Factor
30	Aug-89	LWF	4+	1705	546	1.05
31	Aug-89	LWF	4+	1469	527	1.00
32	Aug-89	LWF	4+	2414	566	1.33
34	Aug-69	LWF	4+	2276	578	1.16
25	Aug-89	LWF	4+	1536	503	1.21
27	Aug-89	LWF	4+	1915	525	1.32
28	Aug-89	LWF	4+	1882	560	1.07
29	Aug-89	LWF	4+	1701	517	1.23
144	Aug-89	LWF	4+	1396	500	1.12
52	Aug-89	LWF	4+	1978	585	0.99
R15417	Aug-89	LWF	4+	1700	562	0.96
72	Aug-89	LWF	4+	1220	492	1.02
69	Aug-89	LWF	4+	1982	542	1.24
65	Aug-89	LWF	4+	1820	557	1.05
150	Aug-89	LWF	4+	1432	515	1.05
148	Aug-89	LWF	4+	1773	525	1.23
147	Aug-89	LWF	4+	1944	550	1.17
143	Aug-89	LWF	4+	1798	471	1.72
142	Aug-89	LWF	4+	1770	553	1.05
140	Aug-89	LWF	4+	1747	525	1.21
138	Aug-69	LWF	4+	1646	545	1.02
137	Aug-89	LWF	4+	1708	541	1.08
136	Aug-89	LWF	4+	1953	556	1.14
135	Aug-89	LWF	4+	1617	511	1.21
134	Aug-89	LWF	4+	1642	541	1.04
133	Aug-89	LWF	4+	1423	510	1.07
131	Aug-89	LWF	4+	1476	515	1.08
130	Aug-89	LWF	4+	1459	515	1.07
126	Aug-89	LWF	4+	1705	530	1.15
125	Aug-89	LWF	4+	1693	570	0.91
123	Aug-89	LWF	4+	1285	525	0.89
122	Aug-89	LWF	4+	1865	536	1.21
121	Aug-89	LWF	4+	1821	527	1.24
120	Aug-89	LWF	4+	1936	552	1.15
118	Aug-89	LWF	4+	1771	441	2.06
116	Aug-89	LWF	4+	1533	522	1.08
105	Aug-89	LWF	4+	1780	546	1.09
104	Aug-89	LWF	4+	1538	522	1.08
103	Aug-89	LWF	4+	1770	541	1.12
95	Aug-89	LWF	4+	1636	548	0.99
96	Aug-89	LWF	4+	1773	535	1.16
94	Aug-89	LWF	4+	1484	520	1.06
88	Aug-89	LWF	4+	1863	551	1.11
61	Aug-89	LWF	4+	1548	559	0.89
82	Aug-89	LWF	4+	1890	521	1.34
83	Aug-89	LWF	4+	1341	501	1.07
85	Aug-89	LWF	4+	1700	456	1.79
86	Aug-89	LWF	4+	1744	524	1.21
47	Aug-89	LWF	4+	817	430	1.03
44	Aug-89	LWF	4+	1561	519	1.12
43	Aug-89	LWF	4+	2188	575	1.15
41	Aug-89	LWF	4+	1597	535	1.04
40	Aug-89	LWF	4+	1689	560	0.98
9562	Ott-89	LWF	4+	.	559	.
9563	Ott-89	LWF	4+	.	523	.
9564	Ocl-89	LWF	4+	.	500	.
9566	Ott-89	LWF	4+	489	.	.
25105	Oct-89	LWF	4+	417	.	.
22	Oct-89	LWF	4+	1047	469	1.01
28	Oct-89	LWF	4+	910	430	1.14
??	Ott-89	LWF	4+	.	470	.
????	Oct-89	LWF	4+	719	471	0.69
?	Ott-89	LWF	4+	.	400	.
21	May-89	LWF	5+	1761	530	1.18
22	May-89	LWF	5+	1658	531	1.11
26	May-89	LWF	5+	1903	565	1.06
27	May-89	LWF	5+	1960	458	2.09

Table D1. continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length(mm)	Condition Factor
28	May-89	LWF	5+	1859	546	1.14
33	May-89	LWF	5+	1835	551	1.10
34	May-89	LWF	5+	1454	501	1.16
32	Aug-69	LWF	5+	2921	620	1.23
33	Aug-89	LWF	5+	1791	556	1.04
39	Aug-89	LWF	5+	3159	641	1.20
42	Aug-89	LWF	5+	2993	625	1.23
149	Aug-89	LWF	5+	2168	560	1.23
146	Aug-89	LWF	5+	1804	555	1.06
129	Aug-89	LWF	5+	1801	554	1.06
128	Aug-89	LWF	5+	2011	582	1.02
127	Aug-89	LWF	5+	1880	549	1.14
124	Aug-89	LWF	5+	1440	520	1.02
117	Aug-69	LWF	5+	1937	566	1.07
115	Aug-89	LWF	5+	1890	542	1.19
110	Aug-89	LWF	5+	2212	570	1.19
106	Aug-89	LWF	5+	1818	545	1.12
3	Oct-89	LWF	5+	990	421	1.33
9565	Oct-89	LWF	5+	.	536	
14	Ott-89	LWF	5+	1280	487	1.11
16	Ott-89	LWF	5+	1840	553	1.09
17	Ott-89	LWF	5+	1280	512	0.95
15	Ocl-89	LWF	5+	1713	542	1.08
???	Ott-89	LWF	5+	1463	520	1.04
0125931	Ott-89	LWF	5+		414	
25932	Ott-89	LWF	5+		409	
25933	Oct.89	LWF	5+		400	
25935	Oct-89	LWF	5+	.	415	
10	Ott-89	LWF	5+	1180	479	1.07
L.V. CLIP 1	Ott-89	LWF	5 t		435	.
39	Aug-89	LWF	6+	1830	556	1.06
1	Ott-89	LWF	6 t	670	395	1.09
18	Ott-89	LWF	6+	2000	595	0.95
14	Ott-89	LWF	6+	2564	595	1.22
22	Ott-69	LWF	6 t	2292	586	1.14
11	Ocl-89	LWF	6+	1679	539	1.07
132	Aug-69	LWF		1642	520	1.17

Table D2. Scale **annulus** measurements of Lake Whitefish for age determination and backcalculation analysis from Lake Roosevelt, 1989.

Date	Species	Fish No	Capt. Length	Scale Length	1st	2nd	3rd	4th	5th
Aug-89	LWF	30	305	91	69				
Aug-89	LWF	23	310	104	47				
Ocl-89	LWF	21	210	71	31				
Ocl-89	LWF	54	200	70	40				
Ott-89	LWF	55	208	64	38				
Ott-89	LWF	53	155	59	31				
Ott-89	LWF	52	215	65	40				
Ocl-89	LWF	50	210	68	35				
Ott-89	LWF	49	196	60	24				
Ott-89	LWF	48	212	70	35				
Ott-89	LWF	46	228	72	32				
Ocl-89	LWF	45	220	84	36				
Ocf-89	LWF	43	198	58	32				
Aug-89	LWF	93	386	144	58	97			
Ott-89	LWF	4	315	94	48	76			
Ott-89	LWF	5	251	74	32	50			
Ott-89	LWF	NO #	233	67	25	58			
Ocl-89	LWF	L.V. FIN CLIP	225	66	24	60			
May-89	LWF	21	506	160	75	123	151		
May-89	LWF	33	520	221	96	169	205		
May-89	LWF	34	460	180	52	97	169		
May-89	LWF	26	430	139	39	80	111		
Aug-89	LWF	32	490	141	54	106	132		
Aug-89	LWF	33	492	170	76	121	161		
Aug-89	LWF	33	480	141	60	113	131		
Aug-89	LWF	26	433	156	75	119	149		
Aug-89	LWF	145	450	172	21	84	142		
Aug-89	LWF	141	510	192	24	67	129		
Aug-89	LWF	139	476	190	39	92	148		
Aug-89	LWF	113	514	169	31	74	141		
Aug-89	LWF	84	475	214	44	114	181		
Aug-89	LWF	80	473	188	41	85	149		
Aug-89	LWF	50	382	116	24	77	100		
Ocl-89	LWF	9561	464	168	27	74	141		
Ocl-89	LWF	9560	445	152	36	74	136		
Ocl-89	LWF	109566	456	157	39	73	134		
Ocl-89	LWF	109559	486	167	40	80	146		
Ocl-89	LWF	15	475	204	38	76	88		
Ocl-89	LWF	42	377	152	41	95	140		
Ocl-89	LWF	14	367	134	36	70	121		
Ocl-89	LWF	?	380	103	20	46	85		
Ocl-89	LWF	25934	317	95	22	58	76		
May-89	LWF	2	374	99	45	64	77	95	
May-89	LWF	19	578	195	78	134	170	185	
May-89	LWF	20	490	180	75	116	144	184	
May-69	LWF	22	566	204	85	123	147	187	

Table D2. continued...

Date	Species	Fiih No	Capt. Length	Scale Length	1st	2nd	3rd	4th	5th
May-89	LWF	23	522	222	93	134	172	205	
May-89	LWF	24	520	214	98	125	164	196	
May-89	LWF	19	531	187	70	116	158	179	
May-89	LWF	20	505	231	87	154	195	223	
May-89	LWF	24	492	191	43	93	139	180	
May-69	LWF	31	510	219	95	134	180	211	
May-89	LWF	32	549	151	35	80	119	134	
May-89	LWF	27	418	130	32	52	96	125	
Aug-89	LWF	28	490	175	68	110	140	169	
Aug-89	LWF	34	532	191	61	148	170	165	
Aug-89	LWF	35	510	176	71	109	139	171	
Aug-89	LWF	36	558	166	66	124	151	161	
Aug-89	LWF	37	499	160	74	130	143	154	
Aug-89	LWF	38	546	190	67	115	165	181	
Aug-89	LWF	24	510	158	73	106	131	150	
Aug-89	LWF	26	521	172	81	118	145	164	
Aug-89	LWF	27	572	166	73	111	132	154	
Aug-89	LWF	28	565	161	71	108	136	151	
Aug-89	LWF	29	557	194	59	121	154	183	
Aug-89	LWF	30	546	170	61	118	149	165	
Aug-89	LWF	31	527	173	64	105	141	166	
Aug-89	LWF	32	566	202	89	139	172	193	
Aug-69	LWF	34	578	165	71	121	150	161	
Aug-89	LWF	25	503	172	72	116	143	165	
Aug-89	LWF	27	525	184	73	111	134	170	
Aug-89	LWF	28	560	158	74	106	125	144	
Aug-89	LWF	29	517	184	70	111	151	170	
Aug-89	LWF	144	500	171	23	67	120	153	
Aug-69	LWF	52	585	206	22	92	171	192	
Aug-89	LWF	R15417	562	241	35	77	171	230	
Aug-89	LWF	72	492	202	43	92	170	193	
Aug-89	LWF	69	542	262	52	84	160	196	
Aug-89	LWF	65	557	185	22	81	132	169	
Aug-89	LWF	150	515	197	34	71	141	180	
Aug-69	LWF	148	525	217	39	90	140	196	
Aug-89	LWF	147	550	176	29	69	124	152	
Aug-89	LWF	143	471	198	19	66	138	182	
Aug-89	LWF	142	553	177	33	54	124	153	
Aug-89	LWF	140	525	184	23	58	114	143	
Aug-89	LWF	138	545	239	27	74	148	219	
Aug-89	LWF	137	541	196	31	85	143	174	
Aug-69	LWF	136	556	205	34	77	126	185	
Aug-89	LWF	135	511	192	23	88	151	182	
Aug-69	LWF	134	541	172	21	56	115	155	
Aug-89	LWF	133	510	201	36	88	152	178	
Aug-89	LWF	131	515	181	30	93	110	164	
Aug-69	LWF	130	515	206	41	81	153	188	
Aug-89	LWF	126	530	158	38	61	103	132	

Table D2. continued...

Dale	Species	Fish No	Capt. Length	Scale Length	1st	2nd	3rd	4th	5th
Aug-89	LWF	125	570	209	43	88	127	174	
Aug-89	LWF	123	525	179	32	86	152	173	
Aug-89	LWF	122	536	190	27	64	115	164	
Aug-89	LWF	121	527	172	33	74	138	154	
Aug-89	LWF	120	552	189	51	111	132	167	
Aug-89	LWF	118	441	1a7	49	112	168	179	
Aug-89	LWF	116	522	194	46	68	128	165	
Aug-89	LWF	105	546	176	28	76	123	162	
Aug-89	LWF	104	522	208	35	74	132	182	
Aug-89	LWF	103	541	207	24	81	170	193	
Aug-89	LWF	95	548	204	33	74	156	192	
Aug-69	LWF	96	535	206	34	82	160	166	
Aug-89	LWF	94	520	193	29	67	102	164	
Aug-69	LWF	88	551	251	39	78	180	223	
Aug-89	LWF	81	559	209	41	88	144	176	
Aug-89	LWF	82	521	206	32	52	109	175	
Aug-89	LWF	83	501	191	34	72	143	172	
Aug-69	LWF	85	456	169	26	71	124	154	
Aug-89	LWF	86	524	216	34	102	165	192	
Aug-89	LWF	47	430	118	23	59	88	102	
Aug-89	LWF	44	519	181	31	74	123	159	
Aug-89	LWF	43	575	203	36	76	143	179	
Aug-Et9	LWF	41	535	194	35	86	152	170	
Aug-89	LWF	40	560	191	28	74	137	178	
act-89	LWF	9562	559	157	25	83	132	153	
act-89	LWF	9563	523	166	32	80	117	148	
Oct-89	LWF	9564	500	157	38	60	116	143	
Oct-89	LWF	9566	489	179	36	74	130	157	
Oct-89	LWF	25105	417	90	23	66	78	83	
Oct-89	LWF	22	469	194	25	83	130	160	
act-89	LWF	28	430	194	34	72	118	148	
Oct-89	LWF	??	470	186	39	40	131	135	
act-89	LWF	????	471	165	39	67	116	159	
Oct-89	LWF	?	400	110	19	56	81	98	
May-89	LWF	21	530	183	44	89	129	156	171
May-89	LWF	22	531	221	38	92	145	178	202
May-89	LWF	26	565	192	64	94	136	162	179
May-89	LWF	27	456	198	95	140	173	180	193
May-89	LWF	28	546	232	70	106	147	184	214
May-89	LWF	33	551	142	31	64	96	113	133
May-89	LWF	34	501	135	38	65	97	117	133
Aug-89	LWF	32	620	189	77	106	131	154	179
Aug-89	LWF	33	556	163	70	115	136	154	160
Aug-89	LWF	39	641	196	71	131	157	175	190
Aug-89	LWF	42	625	226	26	72	139	191	216
Aug-89	LWF	149	560	218	31	a0	133	183	207
Aug-89	LWF	146	555	227	46	90	140	171	211
Aug-89	LWF	129	554	198	43	90	131	165	185

Table D2. continued...

Date	Species	Fii No	Capt. Length	Scale Length	1st	2nd	3rd	4th	5th
Aug-89	LWF	128	582	194	31	63	100	131	165
Aug-89	LWF	127	549	193	40	74	138	175	185
Aug-89	LWF	124	520	174	41	76	112	135	162
Aug-89	LWF	117	566	217	52	91	151	169	198
Aug-89	LWF	115	542	218	39	78	130	156	196
Aug-89	LWF	110	570	200	38	72	133	166	183
Aug-89	LWF	106	545	215	38	58	124	173	207
Ott-89	LWF	3	421	111	44	60	82	94	103
Ocl-89	LWF	9565	536	198	37	74	130	151	173
Ocl-89	LWF	14	487	201	34	81	118	178	191
Ocl-89	LWF	16	553	183	36	78	140	160	167
Ocl-89	LWF	17	512	174	24	70	112	132	155
Ocl-89	LWF	15	542	210	29	80	160	190	200
Ocl-89	LWF	???	520	176	27	56	100	136	152
Ocl-89	LWF	0125931	414	109	23	58	74	86	99
Ocl-89	LWF	25932	409	129	23	69	90	104	119
Ocl-89	LWF	25933	400	103	26	54	62	77	90
Ocl-89	LWF	25935	415	89	21	53	71	78	a2
Ocl-89	LWF	10	479	173	42	80	126	150	164
Ocl-89	LWF	L.V. CLIP 1	435	122	22	52	a3	96	101
Aug-89	LWF	39	556	199	29	78	119	140	168
Ocl-89	LWF	1	395	117	26	45	80	92	100
Ocl-89	LWF	18	595	213	30	74	131	180	191
Ocl-89	LWF	14	595	224	39	82	166	197	208
Ocl-89	LWF	22	586	177	38	70	130	151	162
Ocl-89	LWF	11	539	233	30	54	a2	141	180

Table D3. Age, growth and condition data for Rainbow trout collected from Lake Roosevelt, 1988

Fish No.	Date	Species	Age	Weight (g)	capture Length (mm)	Cond. Factor
J	Aug-88	RBT	0+		129	0.84
4	Aug-88	RBT	0+	53	165	1.18
5	Aug-88	RBT	0+	11	115	0.72
26	Aug-88	RBT	0+	56	170	1.14
27	Aug-88	RBT	0+	54	166	1.18
47	Aug-88	RBT	0+	119	210	1.28
47	Aug-88	RBT	0+	72	170	1.47
48	Aug-88	RBT	0+	130	218	1.25
48	Aug-88	RBT	0+	61	155	1.64
112	Aug-88	RBT	0+	109	215	1.10
6	Oct-88	RBT	0+	10	95	1.17
20	Oct-88	RBT	0+	12	106	1.01
21	Oct-88	RBT	0+	13	112	0.93
22	Oct-88	RBT	0+	12	104	1.07
23	Oct-88	RBT	0+	7	92	0.90
24	Oct-88	RBT	0+	7	90	0.96
25	Oct-88	RBT	0+	3	68	0.95
33	Oct-88	RBT	0+	36	146	1.16
35	Oct-88	RBT	0+	33	150	0.98
53	Oct-88	RBT	0+	21	130	0.96
1	Aug-88	RBT	1+	140	242	0.99
4	Aug-88	RBT	1+	501	355	1.12
8	Aug-88	RBT	1+	608	362	1.28
10	Aug-88	RBT	1+	725	365	1.49
11	Aug-88	RBT	1+	697	365	1.43
11	Aug-88	RBT	1+	399	324	1.17
13	Aug-88	RBT	1+	776	394	1.27
14	Aug-88	RBT	1+	578	351	1.34
15	Aug-88	RBT	1+	680	383	1.21
15	Aug-88	RBT	1+	464	332	1.27
18	Aug-88	RBT	1+	194	280	0.88
19	Aug-88	RBT	1+	696	385	1.22
20	Aug-88	RBT	1+	698	390	1.18
22	Aug-88	RBT	1+	526	355	1.18
23	Aug-88	RBT	1+	428	335	1.14
24	Aug-88	RBT	1+	508	360	1.09
25	Aug-88	RBT	1+	408	325	1.19
32	Aug-88	RBT	1+	18	120	1.04
38	Aug-88	RBT	1+	532	360	1.14
39	Aug-88	RBT	1+	557	352	1.28
40	Aug-88	RBT	1+	475	346	1.15
41	Aug-88	RBT	1+	495	356	1.10
44	Aug-88	RBT	1+	558	363	1.17
44	Aug-88	RBT	1+	478	360	1.02
46	Aug-88	RBT	1+	476	363	1.00
46	Aug-88	RBT	1+	311	332	0.85
47	Aug-88	RBT	1+	318	305	1.12
48	Aug-88	RBT	1+	457	326	1.32
48	Aug-88	RBT	1+	341	305	1.20
49	Aug-88	RBT	1+	404	327	1.16
50	Aug-88	RBT	1+	571	375	1.0a
51	Aug-88	RBT	1+	567	363	1.19
52	Aug-88	RBT	1+	427	338	1.11
53	Aug-88	RBT	1+	384	327	1.10
54	Aug-88	RBT	1+	644	385	1.13
54	Aug-88	ABT	1+	435	350	1.01
63	Aug-88	RBT	1+	820	390	1.38
64	Aug-88	RBT	1+	627	375	1.19
65	Aug-88	RBT	1+	706	389	1.34
66	Aug-88	RBT	1+	650	370	1.28
67	Aug-88	RBT	1+	733	390	1.24
68	Aug-88	RBT	1+	493	342	1.23

Table D3. continued...

Fish No.	Date	Species	Age	Weight (g)	Capture Length (mm)	Cond. Factor
69	Aug-88	RBT	1+	626	360	1.34
70	Aug-88	RBT	1+	585	365	1.20
71	Aug-88	RBT	1+	540	355	1.21
72	Aug-88	RBT	1+	570	370	1.13
74	Aug-88	RBT	1+	599	370	1.18
127	Aug-88	RBT	1+	492	346	1.19
128	Aug-88	RBT	1+	500	335	1.33
1	Oct-88	RBT	1+	592	377	1.10
2	Oct-88	RBT	1+	163	245	1.11
2	Oct-88	RBT	1+	295	307	1.02
7	Oct-88	RBT	1+	180	252	1.12
a	Oct-88	RBT	1+	170	243	1.18
9	Oct-88	RBT	1+	134	240	0.97
9	Oct-88	RBT	1+	104	200	1.30
10	Oct-88	RBT	1+	150	225	1.32
10	ocbaa	RBT	1+	548	370	1.0a
11	Oct-88	RBT	1+	118	206	1.35
11	Oct-88	RBT	1+	485	350	1.13
12	ocbaa	RBT	1+	112	210	1.21
12	Oct-88	RBT	1+	739	363	1.54
13	Oct-88	RBT	1+	122	211	1.30
13	Oct-88	RBT	1+	765	350	1.78
15	Oct-88	RBT	1+	469	343	1.16
19	Oct-88	RBT	1+	481	362	1.01
20	Oct-88	RBT	1+	230	250	1.47
20	ocbaa	RBT	1+	662	385	1.16
20	Oct-88	RBT	1+	207	265	1.11
21	ocbaa	RBT	1+	145	232	1.16
22	Oct-88	RBT	1+	563	340	1.43
23	Oct-88	RBT	1+	533	352	1.22
26	Oct-88	RBT	1+	533	310	1.79
27	ocbaa	RBT	1+	139	234	1.08
28	Oct-88	RBT	1+	375	330	1.04
30	ocbaa	RBT	1+	35	140	1.28
31	ocbaa	RBT	1+	140	235	1.08
31	ocbaa	RBT	1+	598	360	1.28
31	ocbaa	RBT	1+	500	350	1.17
32	Oct-88	RBT	1+	111	221	1.03
33	Oct-88	RBT	1+	88	190	1.28
45	Oct-88	RBT	1+	625	380	1.14
A	ocbaa	RBT	1+	925	385	1.62
D	ocbaa	RBT	1+	810	393	1.33
E	ocbaa	RBT	1+	200	270	1.02
F	Oct-88	RBT	1+	230	271	1.16
H	ocbaa	RBT	1+	750	386	1.30
17	Aug-88	RBT	2+	1394	456	1.47
18	Aug-88	RBT	2+	1208	467	1.19
21	Aug-88	RBT	2+	590	365	1.21
36	Aug-88	RBT	2+	955	432	1.18
37	Aug-88	RBT	2+	861	426	1.11
38	Aug-88	RBT	2+	1094	460	1.12
39	Aug-88	RBT	2+	926	419	1.26
40	Aug-88	RBT	2+	1233	462	1.25
42	Aug-88	RBT	2+	1612	504	1.26
43	Aug-88	RBT	2+	1364	511	1.02
43	Aug-88	RBT	2+	743	416	1.03
43	Aug-88	RBT	2+	1429	530	0.96
44	Aug-88	RBT	2+	1736	534	1.14
45	Aug-88	RBT	2+	1475	502	1.17
45	Aug-88	RBT	2+	683	377	1.27
45	Aug-88	RBT	2+	770	440	0.90
46	Aug-88	RBT	2+	1295	510	0.98
47	Aug-88	RBT	2+	1283	492	1.08
47	Aug-88	RBT	2+	1006	451	1.10
59	Aug-88	RBT	2+	678	345	1.65
62	Aug-88	RBT	2+	1176	450	1.29

Table D3.

continued...

Fish No.	Date	Species	Age	Weight (g)	Capture Length (mm)	Cond. Factor
73	Aug-88	RBT	2+	559	455	0.59
111	Aug-88	RBT	2+	562	315	1.80
2	act-88	RBT	2+	778	400	1.22
2	Ott-88	RBT	2+	1579	446	1.78
3	Oct-88	RBT	2+	663	400	1.04
4	act-88	RBT	2+	974	420	1.31
9	Ott-88	RBT	2+	645	385	1.13
10	Oct-88	RBT	2+	905	440	1.06
11	Ocl-88	RBT	2+	1161	451	1.27
12	Oct-88	RBT	2+	959	435	1.17
13	Ott-88	RBT	2+	479	370	0.95
15	Ott-88	RBT	2+	1363	412	1.95
16	Ott-88	RET	2+	1225	490	1.04
16	Ott-88	RBT	2+	607	463	0.61
18	Ott-88	RBT	2+	676	397	1.08
19	Ott-88	RBT	2+	770	403	1.18
19	Ott-88	RBT	2+	710	403	1.08
19	Ott-88	RBT	2+	117	440	0.14
20	Oct-88	RBT	2+	995	431	1.24
23	Ott-88	RET	2+	1195	483	1.06
24	act-88	RBT	2+	825	465	0.82
26	Ott-88	RBT	2+	939	470	0.90
26	Ott-88	RBT	2+	779	440	0.91
27	Ott-88	RBT	2+	1288	475	1.20
28	Oct-88	RBT	2+	1035	460	1.06
29	Ott-88	RBT	2+	1085	440	1.27
30	Ott-88	RBT	2+	1138	480	1.03
34	Ott-88	RBT	2+	1601	523	1.12
35	Ott-88	RBT	2+	1451	510	1.09
36	Oct-88	RBT	2+	1558	543	0.97
37	act-88	RBT	2+	989	446	1.11
38	Ott-88	RBT	2+	1310	493	1.09
39	Ott-88	RBT	2+	1884	542	1.18
66	Ott-88	RBT	2+	880	415	1.23
B	Ott-88	RBT	2+	1150	430	1.45
C	Ott-88	RBT	2+	1275	466	1.26
G	Oct-88	RBT	2+	810	424	1.06
I	Ott-88	RBT	2+	835	440	0.98
1	Aug-88	RBT	3+	916	501	0.73
10	Aug-88	RBT	3+	854	455	0.91
13	Aug-88	RBT	3+	1380	533	0.91
14	Aug-88	RBT	3+	1221	460	1.25
15	Aug-88	RBT	3+	1372	495	1.13
16	Aug-88	RBT	3+	1206	455	1.28
16	Aug-88	RBT	3+	1250	492	1.05
17	Aug-88	RBT	3+	791	401	1.23
39	Aug-88	RBT	3+	1190	522	0.84
42	Aug-88	RBT	3+	1190	534	0.78
46	Aug-88	RBT	3+	965	466	0.95
48	Aug-88	RBT	3+	857	447	0.96
58	Aug-88	RBT	3+	938	459	0.97
1	Oct-88	RBT	3+	1224	470	1.18
3	Ott-88	RBT	3+	1493	476	1.38
3	Ott-88	RBT	3+	690	400	1.08
4	Ott-88	RBT	3+	1050	462	1.06
5	act-88	RBT	3+	1300	485	1.14
7	Ott-88	RBT	3+	910	420	1.23
8	Ott-88	RBT	3+	799	455	0.85
10	act-88	RBT	3+	1455	511	1.09
10	Ott-88	RBT	3+	950	482	0.85
12	act-88	RBT	3+	853	445	0.97
13	Oct-88	RBT	3+	1200	483	1.06
17	Oct-88	RBT	3+	1059	453	1.14
18	Ott-88	RBT	3+	1365	480	1.23
21	Ott-88	RBT	3+	1112	495	0.92
25	Ott-88	RBT	3+	1225	475	1.14

Table D3. continued...

Fish No.	Date	Species	Age	Weight (g)	Capture Length (mm)	Cond. Factor
24A	Ott-88	RBT	3+	1000	480	0.90
240	Ott-88	RBT	3+	1075	485	0.94
16	Aug-88	RBT	4+	1691	534	1.11
18	Aug-88	RBT	4+	698	500	0.72
2	Ott-88	RBT	4+	1360	535	0.89
5	Ott-88	RBT	4+	877	512	0.65
9	Ott-88	RBT	4+	1040	475	0.97
9	Ott-88	RBT	4+	1526	564	0.85
13	Ott-88	RBT	4+	720	405	1.08
14	Ott-88	RBT	4+	665	410	0.96
14	Ott-88	RBT	4+	989	456	1.04
17	Ott-88	RBT	4+	1468	510	1.11
21	Ott-88	RBT	4+	1945	575	1.02
22	Oct-88	RBT	4+	1230	525	0.85
23	Ott-88	RBT	4+	1545	535	1.01
25	Ott-88	RET	4+	1257	515	0.92
26	Ott-88	RBT	4+	1410	550	0.85
27	Ott-88	RBT	4+	1305	531	0.87
15	Ott-88	RBT	5+	1131	475	1.06

Table D4. Scale **annulus** measurements of Rainbow trout for age determination and backcalculation analysis from Lake Roosevelt, 1988.

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th
4	Aug-88	RET	0+	165	22					
26	Aug-88	RBT	0+	170	22					
27	Aug-88	RBT	0+	166	24					
47	Aug-88	RBT	0+	210	33					
47	Aug-88	RBT	0+	170	23					
48	Aug-88	RET	0+	218	36					
48	Aug-88	RBT	0+	155	32					
112	Aug-88	RBT	0+	215	25					
6	Ott-88	RBT	0+	95	16					
20	Oct-88	RBT	0+	106	16					
21	Ott-88	RBT	0+	112	16					
22	Ott-88	RBT	0+	104	15					
23	Ott-88	RBT	0+	92	14					
24	Ott-88	RBT	0+	90	15					
25	Ott-88	RBT	0+	68	8					
33	Ott-88	RBT	0+	146	20					
35	Ott-88	RBT	0+	150	22					
53	Ott-88	RBT	0+	130	23					
1	Aug-88	RBT	1+	298	37	23				
1	Aug-88	RBT	1+	242	36	15				
4	Aug-88	RBT	1+	355	43	18				
6	Aug-88	RBT	1+	346	58	26				
7	Aug-88	RBT	1+	393	56	21				
8	Aug-88	RBT	1+	362	64	30				
10	Aug-88	RBT	1+	365	62	23				
11	Aug-88	RBT	1+	365	58	22				
11	Aug-88	RBT	1+	324	52	21				
13	Aug-88	RBT	1+	394	54	23				
14	Aug-88	RBT	1+	351	62	30				
15	Aug-88	RBT	1+	383	51	21				
15	Aug-88	RBT	1+	332	47	18				
18	Aug-88	RBT	1+	280	44	25				
19	Aug-88	RBT	1+	385	52	20				
20	Aug-88	RBT	1+	390	52	22				
22	Aug-88	RBT	1+	355	51	23				

Table D4. continusd...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th
2	3	Aug-88	RBT	1+	335	56	27			
24		Aug-88	RBT	1+	360	53	27			
25		Aug-88	RBT	1+	325	44	19			
32		Aug-88	RBT	1+	120	16	13			
38		Aug-88	RBT	1+	360	50	21			
39		Aug-88	RBT	1+	352	53	22			
40		Aug-88	RBT	1+	346	46	20			
41		Aug-88	RBT	1+	356	54	21			
44		Aug-88	RBT	1+	363	48	21			
44		Aug-88	RBT	1+	360	51	20			
46		Aug-88	RBT	1+	363	52	23			
46		Aug-88	RBT	1+	332	48	20			
47		Aug-88	RBT	1+	305	47	22			
48		Aug-88	RBT	1+	326	53	24			
48		Aug-88	RBT	1+	305	41	19			
49		Aug-88	RBT	1+	327	49	20			
50		Aug-88	RBT	1+	375	56	25			
51		Aug-88	RBT	1+	363	55	23			
52		Aug-88	RBT	1+	338	50	20			
53		Aug-88	RBT	1+	327	45	16			
54		Aug-88	RBT	1+	385	57	27			
54		Aug-88	RBT	1+	350	48	19			
63		Aug-88	RBT	1+	390	61	30			
64		Aug-88	RBT	1+	375	45	20			
65		Aug-88	RBT	1+	389	63	28			
66		Aug-88	RBT	1+	370	61	27			
67		Aug-88	RBT	1+	390	56	25			
68		Aug-88	RBT	1+	342	58	25			
69		Aug-88	RBT	1+	360	50	27			
70		Aug-88	RBT	1+	365	51	23			
71		Aug-88	RBT	1+	355	57	25			
72		Aug-88	RBT	1+	370	51	23			
74		Aug-88	RBT	1+	370	45	23			
127		Aug-88	RBT	1+	346	53	25			
128		Aug-88	RBT	1+	335	51	23			
1		Oct-88	RBT	1+	377	57	25			
2		Oct-88	RBT	1+	245	36	23			
7		Oct-88	RBT	1+	252	45	35			

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Table D4. continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th
8	Oct-88	RBT	1+	243	32	18				
9	Oct-88	RBT	1+	240	35	20				
9	Oct-88	RBT	1+	200	33	18				
10	Oct-88	RBT	1+	225	36	18				
10	Oct-88	RBT	1+	370	51	21				
11	Oct-88	RBT	1+	206	35	19				
11	Oct-88	RBT	1+	350	46	19				
12	Oct-88	RBT	1+	210	36	20				
12	Oct-88	RBT	1+	363	58	20				
13	Oct-88	RBT	1+	211	30	21				
13	Oct-88	RBT	1+	350	51	21				
15	Oct-88	RBT	1+	343	56	23				
19	Oct-88	RBT	1+	362	52	21				
20	Oct-88	RBT	1+	250	40	22				
20	Oct-88	RBT	1+	385	63	27				
20	Oct-88	RBT	1+	265	36	20				
21	Oct-88	RBT	1+	232	36	18				
22	Oct-88	RBT	1+	340	57	21				
23	Oct-88	RBT	1+	352	55	22				
26	Oct-88	RBT	1+	310	60	23				
27	Oct-88	RBT	1+	234	38	20				
28	Oct-88	RBT	1+	330	46	17				
30	Oct-88	RBT	1+	140	32	20				
31	Oct-88	RBT	1+	235	37	20				
31	Oct-88	RBT	1+	360	50	19				
31	Oct-88	RBT	1+	350	55	21				
32	Oct-88	RBT	1+	221	40	19				
33	Oct-88	RBT	1+	190	41	20				
45	Oct-88	RBT	1+	380	60	26				
A	Oct-88	RBT	1+	385	59	22				
D	Oct-88	RBT	1+	393	55	22				
E	Oct-88	RBT	1+	270	40	23				
F	Oct-88	RBT	1+	271	37	20				
H	Oct-88	RBT	1+	386	55	22				
17	Aug-88	RBT	2+	456	65	21	50			
18	Aug-88	RBT	2+	467	68	19	56			
21	Aug-88	RBT	2+	365	51	23	40			
36	Aug-88	RBT	2+	432	68	21	47			

Table D4.

continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th
37	Aug-86	RBT	2+	426	71	23	50			
38	Aug-88	RBT	2+	460	65	20	45			
39	Aug-88	RBT	2+	419	55	17	41			
40	Aug-88	RBT	2+	462	73	23	53			
42	Aug-88	RBT	2+	504	68	26	53			
43	Aug-88	RBT	2+	511	71	27	57			
43	Aug-88	RBT	2+	416	76	25	63			
43	Aug-88	RBT	2+	530	70	26	56			
44	Aug-88	RBT	2+	534	68	23	55			
45	Aug-88	RBT	2+	502	69	25	53			
45	Aug-88	RBT	2+	377	73	20	51			
45	Aug-88	RBT	2+	440	63	19	56			
46	Aug-88	RBT	2+	510	60	25	52			
47	Aug-88	RBT	2+	492	70	25	53			
47	Aug-88	RBT	2+	451	67	21	58			
59	Aug-88	RBT	2+	345	45	19	36			
62	Aug-88	RBT	2+	450	71	25	53			
73	Aug-88	RBT	2+	455	64	24	53			
2	Oct-88	RBT	2+	400	56	23	47			
2	Oct-88	RBT	2+	446	69	23	54			
3	Oct-88	RBT	2+	400	59	18	46			
4	Oct-88	RBT	2+	420	63	26	45			
9	Oct-88	RBT	2+	385	66	20	47			
10	act-88	RBT	2+	440	58	24	48			
11	Oct-88	RBT	2+	451	72	26	58			
12	Oct-88	RBT	2+	435	62	21	51			
13	Oct-88	RBT	2+	370	58	18	53			
15	act-88	RBT	2+	412	57	26	45			
16	Oct-88	RBT	2+	490	78	18	63			
16	oci-88	RBT	2+	463	64	26	56			
18	Oct-88	RBT	2+	397	61	20	53			
19	Oct-88	RBT	2+	403	57	22	47			
19	Oct-88	RBT	2+	403	58	19	48			
19	Oct-88	RBT	2+	440	73	24	60			
20	Oct-88	RBT	2+	431	56	21	43			
23	Oct-88	RBT	2+	483	56	21	46			
24	Oct-88	RBT	2+	465	68	24	51			
26	Oct-88	RBT	2+	470	72	20	58			

Table D4. continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th
27	Oct-88	RBT	2+	475	69	21	57			
28	Oct-88	RBT	2+	460	62	24	51			
29	Oct-88	RBT	2+	440	74	20	57			
30	Oct-88	RBT	2+	480	72	22	58			
34	Oct-88	RBT	2+	523	64	24	62			
35	Oct-88	RBT	2+	510	90	28	73			
36	Oct-88	RBT	2+	543	87	19	61			
37	Oct-88	RBT	2+	446	75	22	63			
38	Oct-88	RBT	2+	493	04	21	62			
39	Oct-88	RBT	2+	542	60	28	61			
66	Oct-88	RBT	2+	415	62	20	51			
B	Oct-88	RBT	2 t	430	54	17	47			
C	Oct-88	RBT	2+	466	55	20	46			
G	Oct-88	RBT	2+	424	59	19	46			
I	Oct-88	RBT	2+	440	65	25	54			
1	Aug-86	RBT	3+	501	62	19	36	57		
10	Aug-88	RBT	3+	455	77	20	45	62		
13	Aug-88	RBT	3 t	533	72	21	46	60		
14	Aug-88	RBT	3 t	460	70	26	43	55		
15	Aug-68	RBT	3+	495	62	25	44	52		
16	Aug-88	RBT	3 t	455	04	26	47	65		
16	Aug-88	RBT	3 t	492	71	18	43	60		
17	Aug-88	RBT	3+	401	78	24	45	61		
39	Aug-88	RBT	3+	522	77	17	46	63		
42	Aug-88	RBT	3 t	534	77	18	45	60		
46	Aug-88	RBT	3 t	466	76	19	56	67		
48	Aug-88	RBT	3+	447	71	23	46	62		
58	Aug-88	RBT	3 t	459	75	18	36	60		
	Oct-88	RBT	3+	470	65	18	48	53		
3	Oct-88	RBT	3+	476	69	21	47	62		
3	Oct-88	RBT	3 t	400	54	16	38	48		
4	Oct-88	RBT	3 t	462	61	20	36	50		
5	Oct-88	RBT	3+	405	68	21	45	60		
7	Oct-86	RBT	3+	420	62	16	39	51		
6	Oct-88	RBT	3+	455	59	16	43	50		
10	act-68	RBT	3+	511	78	21	53	61		
10	Oct-88	RBT	3+	402	74	20	46	62		
12	act-88	RBT	3+	445	63	16	31	58		

Table D4. continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th
13	Oct-88	RBT	3+	483	82	22	56	76		
17	Ott-88	RBT	3+	453	64	8	43	57		
18	act-88	RBT	3+	480	69	18	45	58		
21	act-88	RBT	3+	495	65	17	41	56		
25	act-88	RBT	3+	475	83	19	47	66		
24A	Oct-88	RBT	3 t	480	65	20	40	57		
24B	Oct-88	RBT	3+	485	73	17	50	67		
16	Aug-68	RBT	4+	534	96	18	51	77	86	
18	Aug-86	RBT	4+	500	73	19	38	47	60	
2	Oct-88	RBT	4+	535	72	19	40	59	68	
5	Oct-88	RBT	4+	512	86	20	45	66	79	
9	Oct-88	RBT	4+	475	70	18	35	50	61	
9	Oct-88	RBT	4 t	564	79	20	50	62	70	
13	act-88	RBT	4+	405	57	21	30	41	52	
14	Oct-88	RBT	4 t	410	51	15	24	38	47	
14	Oct-88	RBT	4+	456	61	17	30	41	54	
17	Oct-88	RBT	4+	510	86	17	47	58	76	
21	act-88	RBT	4+	575	86	20	36	55	78	
22	act-88	RBT	4+	525	80	18	37	52	70	
23	act-88	RBT	4+	535	70	18	38	49	61	
25	act-88	RBT	4+	515	82	20	48	67	78	
26	Oct-88	RBT	4+	550	76	21	40	62	71	
27	act-88	RBT	4+	531	87	21	42	63	78	
15	Oct-88	RBT	5+	475	67	20	31	42	52	60

Table D5. Age, growth and condition data for Rainbow trout collected from Lake Roosevelt, 1989

F	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
6	May-89	RBT	0+	43	122	2.37
8	May-89	RBT	0+	10	95	1.17
9	May-89	RBT	0+	8	95	0.93
9	May-89	RBT	0+	114	225	1.00
10	May-89	RBT	0+	11	115	0.72
10	May-89	RBT	0+	46	160	1.12
12	May-89	RBT	0+	55	185	0.87
17	May-89	RBT	0+	10	100	1.00
18	May-89	RBT	0+	6	86	0.94
18	May-89	RBT	0+	12	85	1.95
19	May-89	RBT	0+	14	110	1.05
20	May-89	RBT	0+	20	113	1.39
21	May-89	RBT	0+	10	90	1.37
28	May-89	RBT	0+	11	113	0.76
32	May-89	RBT	0+	10	99	1.03
1	Aug-89	RBT	0+	3	66	1.04
1	Aug-89	RBT	0+	6	86	0.94
2	Aug-89	RBT	0+	5	75	1.19
4	Aug-89	RBT	0+	2	59	0.97
4	Aug-89	RBT	0+	3	66	1.04
4	Aug-89	RBT	0+	38	151	1.1
5	Aug-89	RBT	0+	5	74	1.23
6	Aug-69	RBT	0+	4	62	1.68
8	Aug-89	RBT	0+	18	122	0.99
10	Aug-89	RBT	0+	19	123	1.02
11	Aug-89	RBT	0+	9	97	0.99
12	Aug-89	RBT	0+	33	160	0.01
20	Aug-89	RBT	0+	8	69	2.44
21	Aug-89	RBT	0+	9	73	2.31
2	act-89	RBT	0+	25	135	1.02
2	Ott-89	RBT	0+	155	240	1.12
6	Ott-89	RBT	0+	13	110	0.98
6	Oct-89	RBT	0+	124	224	1.10
10	Ott-89	RBT	0+	42	159	1.04
11	Ott-89	RBT	0+	8	97	0.88
23	Ott-89	RBT	0+	165	237	1.24
25	act-89	RBT	0+	160	234	1.25
26	Ott-89	RBT	0+	10	99	1.03
27	Ocl-89	RBT	0+	4	72	1.07
30	Ott-89	RBT	0+	13	97	1.42
34	Ott-89	RBT	0+	3	71	0.84
2	May-89	RBT	1+	99	211	1.05
3	May-89	RBT	1+	31	140	1.13
11	May-89	RBT	1+	101	210	1.09
12	May-89	RBT	1+	100	212	1.05
14	May-89	RBT	1+	71	200	0.89
15	May-89	RBT	1+	73	200	0.91
17	May-89	RBT	1+	98	210	1.06
19	May-89	RBT	1+	117	130	5.33
20	May-89	RBT	1+	90	208	1.00
20	May-89	RBT	1+	152	227	1.30
26	May-89	RBT	1+	38	198	0.49
28	May-89	RBT	1+	110	225	0.97
29	May-89	RBT	1+	118	223	1.06
31	May-89	RBT	1+	141	230	1.16
32	May-89	RBT	1+	93	211	0.99
33	May-89	RBT	1+	67	187	1.02
34	May-89	RBT	1+	71	193	0.99
36	May-89	RBT	1+	110	219	1.05
2	Aug-89	RBT	1+	36	168	0.76
3	Aug-89	RBT	1+	27	143	0.92
5	Aug-89	RBT	1+	92	204	1.08
6	Aug-89	RBT	1+	261	280	1.19
8	Aug-89	RBT	1+	67	190	0.98
9	Aug-89	RBT	1+	64	185	1.01
9	Aug-89	RBT	1+	112	221	1.04
10	Aug-89	RBT	1+	104	220	0.98
11	Aug-69	RBT	1+	194	256	1.16
13	Aug-69	RBT	1+	62	445	0.07

Table D5.

continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
13	Aug-89	RBT	1+	167	256	1
16	Aug-89	RBT	1+	56	173	1.08
16	Aug-89	RBT	1+	121	130	5.51
19	Aug-89	RBT	1+	13	119	0.77
23	Aug-89	RBT	1+	34	154	0.93
24	Aug-89	RBT	1+	45	164	1.02
27	Aug-89	RBT	1+	31	155	0.83
30	Aug-89	RBT	1+	196	260	1.12
74	Aug-89	RBT	1+	346	336	0.91
78	Aug-89	RBT	1+	461	351	1.07
112	Aug-89	RBT	1+	109	211	1.16
9805	Aug-89	RBT	1+	384	321	1.16
4	Oct-89	RBT	1+	829	395	1.35
7	Ott-89	RBT	1+	235	287	0.99
8	Ott-89	RBT	1+	524	360	1.12
10	Ott-89	RBT	1+	643	407	0.95
13	Ott-89	RBT	1+	283	290	1.16
15	Oct-89	RBT	1+	710	516	0.52
29	Oct-89	RBT	1+	1176	370	2.32
30	Ott-89	RBT	1+	1552	400	2.43
39	Ocl-89	RBT	1+	66	179	1.15
10	May-89	RBT	2+	143	245	0.97
10	May-89	RBT	2+	328	305	1.16
10	May-89	RBT	2+	957	441	1.12
17	May-89	RBT	2+	138	255	0.83
17	May-89	RBT	2+	780	395	1.27
20	May-89	RBT	2+	830	405	1.25
31	May-89	RBT	2+	85	198	1.10
31	May-89	RBT	2+	670	390	1.13
3	Aug-89	RBT	2+	1050	466	1.04
4	Aug-89	RBT	2+	482	368	0.97
4	Aug-89	RBT	2+	780	442	0.9
5	Aug-89	RBT	2+	375	344	0.92
5	Aug-89	RBT	2+	928	465	0.92
7	Aug-89	RBT	2+	409	351	0.95
7	Aug-89	RBT	2+	435	326	1.26
8	Aug-89	RBT	2+	406	340	1.03
9	Aug-89	RBT	2+	385	320	1.17
9	Aug-89	RBT	2+	393	330	1.09
10	Aug-89	RBT	2+	399	331	1.1
10	Aug-89	RBT	2+	456	348	1.08
11	Aug-89	RBT	2+	430	315	1.38
12	Aug-89	RBT	2+	551	352	1.26
13	Aug-89	RBT	2+	479	370	0.95
14	Aug-89	RBT	2+	478	341	1.21
14	Aug-89	RBT	2+	656	400	1.03
16	Aug-89	RBT	2+	607	463	0.61
17	Aug-89	RBT	2+	64	178	1.13
17	Aug-89	RBT	2+	300	309	1.02
18	Aug-89	RBT	2+	35	145	1.15
18	Aug-89	RBT	2+	44	165	0.98
20	Aug-89	RBT	2+	426	325	1.24
22	Aug-89	RBT	2+	37	145	1.21
27	Aug-89	RBT	2+	355	321	1.07
29	Aug-89	RBT	2+	204	300	1.05
36	Aug-89	RBT	2+	369	309	1.25
37	Aug-89	RBT	2+	486	342	1.21
38	Aug-89	RBT	2+	220	268	1.14
57	Aug-89	RBT	2+	413	340	1.05
71	Aug-89	RBT	2+	956	466	0.94
75	Aug-89	RBT	2+	476	350	1.11
76	Aug-89	RBT	2+	373	374	0.71
9806	Aug-89	RBT	2+	240	268	1.25
9807	Aug-89	RBT	2+	293	294	1.15
9808	Aug-89	RBT	2+	571	310	1.92
9809	Aug-89	RBT	2+	188	255	1.13
9810	Aug-89	RBT	2 t	526	352	1.21
9811	Aug-89	RBT	2+	154	293	0.61
19189	Aug-89	RBT	2+	383	350	0.89
Y19147	Aug-89	RBT	2 t	178	257	1.05
Y19177	Aug-89	RBT	2+	138	242	0.97
Y19179	Aug-89	RBT	2+	130	215	1.31
2	Oct-89	RBT	2+	468	364	0.97
3	act-89	RBT	2+	116	223	1.05

Table D5. continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length	Condition Factor
(mm)						
3	act-89	RBT	2+	598	372	1.16
4	Ott-89	RBT	2+	398	333	1.08
5	Ocl-69	RBT	2+	515	356	1.14
6	Oct-89	RBT	2+	1477	468	1.44
9	act-89	RBT	2+	1149	470	1.11
11	act-89	RBT	2+	536	366	1.09
13	Ott-89	RBT	2+	676	390	1.14
14	Ocl-89	RBT	2+	578	349	1.36
15	Oct-89	RBT	2+	446	346	1.08
16	Ocl-89	RBT	2+	318	300	1.18
17	Ocl-69	RBT	2+	484	348	1.15
18	act-89	RBT	2+	388	320	1.18
19	Oct-89	RBT	2+	488	360	1.05
20	act-89	RBT	2+	389	311	1.29
20	Oct-89	RBT	2+	1204	469	1.17
21	Ocl-89	RBT	2+	605	385	1.06
22	Ocl-89	RBT	2+	548	361	1.16
22	Ott-89	RBT	2+	1662	515	1.22
23	Ocl-89	RBT	2+	498	360	1.07
23	Ott-89	RBT	2+	1278	494	1.06
24	act-89	RBT	2+	548	361	1.16
24	Ocl-89	RBT	2+	1332	502	1.05
25	Ocl-89	RBT	2+	389	332	1.06
25	Ocl-89	RBT	2+	1213	487	1.05
26	Ocl-89	RBT	2+	608	357	1.34
26	act-89	RBT	2+	696	396	1.12
27	Ott-89	RBT	2+	552	353	1.25
31	Ocl-89	RBT	2+	1170	354	2.64
32	Ocl-89	RBT	2+	1388	380	2.53
33	Ott-89	RBT	2+	730	313	2.38
35	Ott-89	RBT	2+	770	335	2.05
36	Ott-89	RBT	2+	1170	337	3.06
38	Ocl-89	RBT	2+	973	320	2.98
40	Ott-89	RBT	2+	1060	361	2.25
41	Ott-89	RBT	2+	700	383	1.25
42	Ott-89	RBT	2+	1140	845	0.19
43	Ocl-89	RBT	2+	1414	380	2.58
47	Ott-89	RBT	2+	119	244	0.82
2	May-89	RBT	3+	781	440	0.92
4	May-89	RBT	3+	570	345	1.39
6	May-89	RBT	3+	910	436	1.10
8	May-09	RBT	3+	860	415	1.20
8	May-89	RBT	3+	986	450	1.08
9	May-89	RBT	3+	298	310	1.00
10	May-89	RBT	3+	510	375	0.97
13	May-89	RBT	3+	718	402	1.11
14	May-89	RBT	3+	757	411	1.09
25	May-89	RBT	3+	1415	497	1.15
27	May-89	RBT	3+	658	410	0.95
27	May-89	RBT	3+	1103	448	1.23
30	May-89	RBT	3+	512	369	1.02
1	Aug-89	RBT	3+	513	361	1.09
2	Aug-89	RBT	3+	1212	485	1.06
3	Aug-89	RBT	3+	1241	460	1.21
3	Aug-69	RBT	3+	1570	495	1.29
4	Aug-69	RBT	3+	1008	450	1.11
4	Aug-89	RBT	3+	1096	482	0.98
5	Aug-89	RBT	3+	1128	472	1.07
6	Aug-89	RBT	3+	646	407	0.96
6	Aug-89	RBT	3+	804	451	0.88
6	Aug-69	RBT	3+	956	449	1.06
11	Aug-89	RBT	3+	464	355	1.04
14	Aug-89	RBT	3+	990	456	1.04
15	Aug-89	RBT	3+	469	343	1.16
22	Aug-89	RBT	3+	1038	553	0.61
48	Aug-89	RBT	3+	1035	435	1.26
54	Aug-89	RBT	3+	860	436	1.04
56	Aug-89	RBT	3+	947	456	1.00
62	Aug-89	RBT	3+	1048	470	1.01
63	Aug-89	RBT	3+	440	365	0.9
70	Aug-89	RBT	3+	899	456	0.95
73	Aug-89	RBT	3+	407	341	1.03
77	Aug-89	RBT	3+	963	450	1.06
9804	Aug-89	RBT	3+	1016	452	1.1

Table D5.

continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
19205	Aug-89	RBT	3+	268	300	0.99
1	Oct.89	RBT	3+	486	404	0.74
2	Oct.89	RBT	3+	753	436	0.91
4	Oct-89	RBT	3+	1140	463	1.15
5	Oct.89	RBT	3+	1068	470	1.03
5	Oct.89	RBT	3+	1208	498	0.98
6	Oct.89	RBT	3+	727	392	1.21
6	Ott-89	RBT	3+	1233	485	1.08
7	Oct.89	RBT	3+	1146	460	1.18
8	Oct.89	RBT	3+	989	486	0.86
10	Oct.89	RBT	3+	963	443	1.11
12	Oct-89	RBT	3+	991	452	1.07
14	Ott-89	RBT	3+	498	364	1.03
16	Oct.89	RBT	3+	675	398	1.07
17	Oct.89	RBT	3+	736	430	0.93
21	Oct.89	RBT	3+	1588	541	1.00
28	Ott-89	RBT	3+	1422	510	1.07
37	Oct.89	RBT	3+	1340	399	2.11
39	Ott-89	RBT	3+	1118	351	2.59
41	Ocl-89	RBT	3+	2988	473	2.82
5	May-89	RBT	4+	980	410	1.42
5	May-89	RBT	4+	1316	50%	1.00
6	May-89	RBT	4+	1246	505	0.97
9	May-89	RBT	4+	1193	461	1.22
11	May-89	RBT	4+	809	420	1.09
14	May-89	RBT	4+	750	400	1.17
14	May-89	RBT	4+	805	420	1.09
15	May-89	RBT	4+	720	395	1.17
16	May-89	RBT	4+	500	355	1.12
16	May-89	RBT	4+	1086	414	1.53
16	May-89	RBT	4+	900	420	1.21
21	May-89	RBT	4+	565	360	1.25
21	May-89	RBT	4+	905	458	0.94
22	May-89	RBT	4+	560	379	1.03
23	May-89	RBT	4+	1023	506	0.79
26	May-89	RBT	4+	1257	543	0.79
27	May-89	RBT	4+	929	490	0.79
29	May-89	RBT	4+	630	390	1.06
32	May-89	RBT	4+	790	420	1.07
39	May-89	RBT	4+	858	450	0.94
1	Aug.89	RBT	4+	1501	537	0.97
2	Aug.89	RBT	4+	764	452	0.63
2	Aug-89	RBT	4+	1438	513	1.07
3	Aug-89	RBT	4+	1128	473	1.07
5	Aug.89	RBT	4+	678	509	0.67
17	Aug.89	RBT	4+	1533	544	0.95
19	Aug.89	RBT	4+	1225	526	0.84
21	Aug.89	RBT	4+	994	511	0.74
49	Aug.89	RBT	4+	1388	550	0.83
53	Aug.89	RBT	4+	1180	482	1.05
55	Aug.89	RBT	4+	1038	485	0.91
58	Aug-89	RBT	4+	1344	535	0.88
59	Aug.89	RBT	4+	1378	520	0.98
68	Aug.89	RBT	4+	1213	525	0.84
67	Aug.89	RBT	4+	1317	526	0.9
79	Aug.89	RBT	4+	1011	465	1.01
19206	Aug.89	RBT	4+	1028	520	0.73
3	Ocl-89	RBT	4+	1246	497	1.01
4	Oct-89	RBT	4+	1007	469	0.98
5	Oct-89	RBT	4+	1412	527	0.96
6	Ocl-89	RBT	4+	1094	475	1.02
7	Ott-89	RBT	4+	1200	453	1.29
6	Oct-89	RBT	4+	1223	470	1.12
10	Oct-89	RBT	4+	1324	530	0.89
15	Ocl-89	RBT	4+	870	460	0.89
16	Oct-89	RBT	4+	1219	487	1.06
18	Oct.89	RBT	4+	1340	575	0.70
19	Oct-89	RBT	4+	920	419	1.25
20	Oct.89	RBT	4+	1246	575	0.66
21	Oct-89	RBT	4+	1136	522	0.80
	Oct-89	RBT	4+	538	483	0.48
1	May-89	RBT	5+	802	496	0.66
2	May-89	RBT	5+	1490	561	0.64
6	May-89	RBT	5+	1292	475	1.21

Table D5. continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length	Condition Factor
7	May-89	RBT	5+	1020	470	0.98
9	May-89	RBT	5+	1175	490	1.00
12	May-89	RBT	5+	1265	522	0.89
13	May-89	RBT	5+	1360	485	1.19
16	May-89	RBT	5+	830	445	0.94
19	May-89	RBT	5+	1265	570	0.68
23	May-89	RBT	5+	1167	493	0.97
27	May-89	RBT	5+	1150	500	0.92
28	May-89	RBT	5+	1100	450	1.21
30	May-89	RBT	5+	990	478	0.91
5	Oct-89	RBT	5+	1008	510	0.76
13	Oct-89	RBT	5+	1409	486	1.23
18	Oct-89	RBT	6+	1039	525	0.72

Table D6. Scale **annulus** measurements of Rainbow trout for age determination and backcalculation analysis from Lake Roosevelt, 1989.

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
6	May-89	ABT	0+	122	17						
8	May-89	RBT	0+	95	14						
9	May-89	RBT	0+	95	11						
9	May-89	RBT	0+	225	30						
10	May-89	RBT	0+	115	14						
10	May-89	RBT	0+	160	22						
12	May-89	RBT	0+	185	23						
17	May-89	RBT	0+	100	14						
18	May-89	RBT	0+	86	13						
18	May-89	RBT	0+	85	14						
19	May-89	RBT	0+	110	12						
20	May-89	RBT	0+	113	16						
21	May-89	RBT	0+	90	14						
28	May-89	RBT	0+	113	15						
29	May-89	RBT	0+	165	17						
32	May-89	RBT	0+	99	11						
1	Aug-89	RBT	0+	66	10						
1	Aug-89	RBT	0+	86	14						
2	Aug-89	RBT	0+	75	9						
4	Aug-89	RBT	0+	66	11						
4	Aug-89	RBT	0+	59	8						
4	Aug-89	RBT	0+	151	28						
5	Aug-89	RBT	0+	74	10						
6	Aug-89	RBT	0+	62	9						
8	Aug-89	RBT	0+	122	17						
10	Aug-89	RBT	0+	123	18						
11	Aug-89	RBT	0+	97	21						
12	Aug-89	RBT	0+	160	26						
20	Aug-89	RBT	0+	69	14						
21	Aug-89	RBT	0+	73	13						
2	Ocl-89	RBT	0+	135	18						
6	Ocl-89	RBT	0+	224	34						
6	Ott-89	RBT	0+	110	13						
10	Ocl-89	RBT	0+	159	21						
23	Ocl-89	RBT	0+	237	30						

Table D6

continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
25	Ocl-89	RBT	o+	234	33						
26	Oct-89	RBT	o+	99	11						
27	Ocl-89	RBT	0+	72	7						
30	Ocl-89	RBT	0+	97	9						
34	Ocl-89	RBT	0+	71	9						
2	May-89	RBT	1+	211	26	15					
3	May-89	RBT	1+	140	12	10					
11	May-89	RBT	1+	210	23	15					
12	May-89	RBT	1+	212	19	12					
14	May-89	RBT	1+	200	21	13					
15	May-89	RBT	1+	200	24	15					
17	May-89	RBT	1+	210	21	15					
19	May-89	RBT	1+	130	31	22					
20	May-89	RBT	1+	208	23	15					
20	May-89	RBT	1+	227	30	20					
26	May-89	RBT	1+	198	28	18					
28	May-89	RBT	1+	225	30	18					
29	May-89	RBT	1+	223	24	17					
31	May-89	RBT	1+	230	26	17					
32	May-89	RBT	1+	211	22	15					
33	May-89	RBT	1+	187	22	14					
34	May-89	RBT	1+	193	21	13					
36	May-89	RBT	1+	219	31	18					
2	Aug-89	RBT	1+	168	29	13					
3	Aug-89	RBT	1+	143	30	16					
5	Aug-89	RBT	1+	204	43	15					
8	Aug-89	RBT	1+	280	60	30					
8	Aug-89	RBT	1+	190	38	17					
9	Aug-89	RBT	1+	221	45	24					
9	Aug-89	RBT	1+	185	33	8					
10	Aug-89	RBT	1+	220	37	24					
11	Aug-89	RBT	1+	256	46	28					
13	Aug-89	RBT	1+	256	41	31					
13	Aug-89	RBT	1+	445	20	39					
16	Aug-89	RBT	1+	173	30	13					
18	Aug-89	RBT	1+	130	28	16					
19	Aug-09	RBT	1+	119	22	9					
23	Aug-89	RBT	1+	154	34	14					

Table D6.

continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
24	Aug-89	RBT	1+	164	32	16					
27	Aug-89	RBT	1+	155	31	17					
30	Aug-89	RBT	1+	260	63	16					
35	Aug-89	RBT	1+	350	78	31					
74	Aug-89	RBT	1+	336	59	34					
78	Aug-89	RBT	1+	351	88	32					
112	Aug-89	RBT	1+	211	44	13					
9805	Aug-89	RBT	1+	321	65	22					
15349	Aug-89	RBT	1+	340	77	32					
15350	Aug-89	RBT	1+	342	63	24					
15351	Aug-89	RBT	1+	355	68	27					
22216	Aug-89	RBT	1+	343	62	33					
4	act-69	RBT	1+	395	60	27					
7	Oct-89	RBT	1+	287	28	10					
8	Oct-89	RBT	1+	360	60	47					
10	Oct-89	RBT	1+	407	55	26					
13	Oct-89	RBT	1+	290	42	9					
15	Oct-89	RBT	1+	516	74	24					
29	Oct-89	RBT	1+	370	52	28					
30	Oct-89	RBT	1+	400	46	23					
39	Oct-89	RBT	1+	179	25	19					
0125908	Oct-89	RBT	1+	373	48	25					
0125909	Oct-89	RBT	1+	350	47	27					
0125912	Oct-89	RBT	1+	330	60	44					
10	May-89	RBT	2+	305	48	22				38	
10	May-89	RBT	2+	245	28	14				25	
10	May-89	RBT	2+	441	56	25				50	
17	May-89	RBT	2+	255	26	15				20	
17	May-89	RBT	2+	395	59	17				52	
20	May-89	RBT	2+	405	55	21				51	
31	May-89	RBT	2+	198	24	12				20	
31	May-89	RBT	2+	390	63	31				56	
3	Aug-89	RBT	2+	466	92	32				67	
4	Aug-89	RBT	2+	368	50	16				31	
4	Aug-89	RBT	2+	442	65	22				54	
5	Aug-89	RBT	2+	465	96	17				71	
5	Aug-89	RBT	2+	344	68	22				38	
7	Aug-89	RBT	2+	326	67	19				42	

Table D6.

continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
7	Aug-89	RBT	2+	351	73	18	49				
a	Aug-89	RBT	2+	340	71	21	44				
9	Aug-89	RBT	2+	320	70	24	42				
9	Aug-89	RBT	2+	330	59	26	47				
10	Aug-89	RBT	2 t	331	69	21	33				
10	Aug-89	RBT	2+	340	80	21	47				
11	Aug-89	RBT	2+	315	72	17	36				
12	Aug-a9	RET	2+	352	74	18	44				
13	Aug-89	RBT	2+	370	44	16	36				
14	Aug-89	RBT	2+	341	67	19	47				
14	Aug-89	RBT	2+	400	92	29	73				
18	Aug-89	RBT	2+	463	52	18	44				
17	Aug-89	RBT	2+	178	37	12	23				
17	Aug-89	RBT	2+	309	30	12	24				
18	Aug-89	RBT	2+	165	35	14	26				
18	Aug-89	RBT	2+	145	33	11	24				
20	Aug-89	RBT	2+	325	60	20	54				
22	Aug-89	RBT	2+	145	40	13	31				
27	Aug-89	RBT	2+	321	72	14	42				
29	Aug-89	RBT	2+	300	57	12	23				
36	Aug-89	RBT	2+	309	54	9	23				
37	Aug-89	RBT	2+	342	73	18	44				
38	Aug-89	RBT	2+	268	38	11	30				
57	Aug-89	RBT	2+	340	61	12	28				
71	Aug-89	RBT	2+	466	114	26	83				
75	Aug-89	RBT	2+	350	61	24	52				
76	Aug-a9	RBT	2+	374	75	32	60				
9806	Aug-89	RBT	2 t	268	69	28	57				
9807	Aug-89	RBT	2+	294	67	33	52				
9808	Aug-89	RBT	2 t	310	60	21	40				
9809	Aug-89	RBT	2+	255	61	15	40				
9810	Aug-89	RBT	2 t	352	66	21	38				
9811	Aug-89	RBT	2+	293	62	11	20				
15352	Aug-89	RBT	2+	363	84	27	63				
15353	Aug-89	RBT	2+	349	88	26	54				
15354	Aug-89	RBT	2+	335	66	18	41				
19189	Aug-89	RBT	2+	350	66	10	31				
Y19147	Aug-89	RBT	2+	257	53	14	42				

Table D6.

continued

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
Y19177	Aug-89	RBT	2+	242	39	9	21				
Y19179	Aug-89	RBT	2+	215	44	12	32				
2	act-89	RBT	2+	364	55	18	43				
3	Oct-89	RBT	2+	372	54	25	43				
3	Oct-89	RBT	2+	223	30	8	19				
4	Oct-89	RBT	2+	333	47	13	36				
5	act-a9	RBT	2+	356	49	16	41				
6	Oct-89	RBT	2+	468	66	22	51				
9	Oct-89	RBT	2+	470	64	20	46				
11	Oct-89	RBT	2+	366	65	25	55				
13	Oct-89	RBT	2+	390	52	21	47				
14	Oct-89	RBT	2+	349	49	17	40				
15	Ott-89	RBT	2+	346	39	19	31				
16	Oct-89	RBT	2+	300	49	21	38				
17	Oct-89	RBT	2+	348	50	16	40				
18	Oct-89	RBT	2+	320	56	21	44				
19	Ott-89	RBT	2+	360	55	25	46				
20	Oct-89	RBT	2+	469	56	22	44				
20	Oct-89	RBT	2+	311	57	24	45				
21	Ott-89	RBT	2+	385	54	29	46				
22	Ott-89	RBT	2+	515	67	21	59				
22	Oct-89	RBT	2+	361	55	30	50				
23	Ott-89	RBT	2+	494	73	24	64				
23	Ott-89	RBT	2+	360	45	21	36				
24	act-89	RBT	2+	502	74	23	60				
24	Ott-89	RBT	2+	361	48	21	39				
25	Oct-89	RBT	2+	487	58	14	50				
25	Oct-89	RBT	2+	402	55	22	46				
25	Oct-89	RBT	2+	332	47	23	40				
26	Oct-89	RBT	2+	396	60	27	51				
26	Oct-89	RBT	2+	357	55	22	47				
27	Oct-89	RBT	2+	550	62	18	51				
27	Oct-89	RBT	2+	353	47	22	36				
31	Ott-89	RBT	2+	354	44	19	36				
32	Ott-89	RBT	2+	380	49	25	45				
33	act-89	RBT	2+	313	45	21	36				
35	Oct-89	RBT	2+	335	47	22	40				
36	Ott-89	RBT	2+	337	53	19	46				

Table D6.

continued...

Fish No.	Date	Species	Age	Capture Ldngth (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
38	Ocl-89	RBT	2+	320	43	22	36				
40	Ott-89	RBT	2+	361	44	1a	32				
41	Oct-89	RBT	2+	383	54	14	44				
42	Ocl-89	RBT	2+	845	56	22	50				
43	Oct-89	RBT	2+	380	55	23	49				
47	Ocl-89	RBT	2+	244	22	8	14				
NO#	Oct-89	RBT	2+	339	65	11	51				
O/25903	Oct-89	RBT	2+	370	47	20	41				
0125904	Oct-89	RBT	2+	360	50	24	38				
0125905	Oct-89	RBT	2+	393	54	22	45				
0125906	Ott-89	RBT	2+	360	52	23	36				
O/25908	Ott-89	RBT	2+	379	46	19	37				
2	May-89	RBT	3+	440	73	28	44	63			
4	May-89	RBT	3+	345	66	26	41	57			
6	May-89	RBT	3+	436	75	21	43	58			
8	May-89	RBT	3+	450	58	17	31	52			
a	May-89	RBT	3+	415	59	18	35	52			
9	May-89	RBT	3+	310	57	20	32	48			
10	May-89	RBT	3+	375	45	18	36	44			
13	May-89	RBT	3+	402	59	26	36	50			
14	May-89	RBT	3+	411	69	32	48	65			
25	May-89	RBT	3+	497	76	27	48	67			
27	May-89	RBT	3+	448	51	17	32	47			
27	May-89	RBT	3+	410	48	19	28	42			
30	May-89	RBT	3+	369	50	15	30	41			
1	Aug-89	RBT	3+	361	67	19	39	54			
2	Aug-89	RBT	3+	485	98	24	70	91			
3	Aug-89	RBT	3+	495	91	32	64	73			
3	Aug-89	RBT	3+	468	78	22	39	62			
4	Aug-89	RBT	3+	482	108	15	21	54			
4	Aug-89	RBT	3+	450	82	11	32	70			
5	Aug-89	RBT	3+	472	98	24	58	81			
6	Aug-89	RBT	3+	449	97	19	66	87			
6	Aug-89	RBT	3+	407	91	16	51	73			
6	Aug-89	RBT	3+	451	57	9	34	46			
11	Aug-89	RBT	3+	355	69	22	37	56			
14	Aug-89	RBT	3+	456	67	18	44	60			
15	Aug-89	RBT	3+	343	55	11	23	38			

Table D6.

continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
22	Aug-89	RBT	3+	553	88	16	60	76			
48	Aug-89	RBT	3+	435	72	28	49	61			
54	Aug-89	RBT	3+	436	60	9	23	50			
56	Aug-a9	RBT	3+	456	94	22	39	a1			
62	Aug-89	RBT	3 t	470	96	21	38	84			
63	Aug-a9	RBT	3+	365	61	9	28	48			
70	Aug-89	RBT	3+	456	94	12	24	73			
73	Aug-89	RBT	3+	341	63	17	34	64			
77	Aug-a9	RBT	3+	450	111	13	41	86			
9804	Aug-89	RBT	3+	452	107	31	74	98			
19205	Aug-89	RBT	3+	300	70	11	26	54			
1	Ott-89	RBT	3 t	485	60	16	42	55			
1	Ott-89	RBT	3+	404	50	6	14	23			
2	Ott-89	RBT	3+	436	62	6	42	55			
4	Ocl-89	RBT	3+	463	65	20	49	58			
5	Ocl-89	RBT	3+	470	57	11	34	53			
5	Ocl-89	RBT	3+	498	76	22	64	76			
6	Ocl-89	RBT	3+	392	53	11	25	45			
6	Ocl-89	RBT	3 t	485	68	19	55	64			
7	Ocl-89	RBT	3+	460	68	10	19	54			
8	Ocl-89	RBT	3+	486	45	8	15	33			
10	Ott-89	RBT	3+	443	69	14	27	53			
12	Ott-89	RBT	3+	452	74	11	20	63			
14	Ott-89	RBT	3 t	364	51	9	20	41			
16	Ott-89	RBT	3+	398	60	10	19	35			
17	Ocl-89	RBT	3+	430	62	10	21	50			
21	Ott-89	RBT	3+	541	91	26	64	82			
28	Ott-89	RBT	3+	510	72	23	55	68			
37	Ocl-89	RBT	3+	399	70	11	50	61			
39	Ocl-89	RBT	3+	351	52	11	23	46			
41	Ott-89	RBT	3 t	473	72	22	43	57			
25937	Ocl-89	RBT	3+	449	61	11	20	57			
25938	Ocl-89	RBT	3+	480	75	23	54	71			
25939	Ocl-89	RBT	3+	480	68	16	43	60			
25942	Ocl-89	RBT	3+	460	60	15	42	57			
NO#	Ocl-89	RBT	3+	354	47		13	34			
0125907	Ocl-89	RBT	3+	470	76	24	54	71			
5	May-89	RBT	4+	508	63	22	33	45	55		

Table D6.

continued...

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
5	May-89	RBT	4 t	410	62	16	25	46	57		
6	May-89	RBT	4+	505	77	27	37	53	69		
9	May-69	RBT	4+	461	61	19	29	41	54		
11	May-89	RBT	4 t	420	73	17	23	53	70		
12	May-89	RBT	4+	470	81	29	47	67	74		
14	May-89	RBT	4+	420	75	25	37	54	68		
14	May-89	RBT	4+	400	63	14	20	49	61		
15	May-69	RBT	4+	395	61	13	20	43	56		
16	May-89	RBT	4 t	414	51	22	31	43	50		
16	May-69	RBT	4 t	355	55	13	19	30	53		
18	May-69	RBT	4+	420	54	10	19	40	52		
21	May-69	RBT	4 t	458	52	15	24	40	51		
21	May-89	RBT	4+	360	62	9	15	42	59		
22	May-89	RBT	4 t	379	62	12	21	39	60		
23	May-89	RBT	4 t	506	80	38	57	67	76		
26	May-69	RBT	4+	543	82	22	45	66	77		
27	May-69	RBT	4+	490	79	29	44	59	75		
29	May-69	RBT	4+	390	64	11	20	39	60		
32	May-69	RBT	4+	420	56	10	19	43	54		
39	May-69	RBT	4 t	450	58	23	36	46	57		
1	Aug-89	RBT	4 t	537	113	17	42	a2	104		
2	Aug-a9	RBT	4+	513	126	19	26	69	106		
2	Aug-89	RBT	4+	452	92	20	38	68	a2		
3	Aug-a9	RBT	4 t	473	96	18	33	74	88		
5	Aug-89	RBT	4+	509	79	9	22	58	69		
17	Aug-69	RBT	4+	544	117	16	35	79	107		
19	Aug-69	RBT	4+	526	116	13	44	76	98		
21	Aug-a9	RBT	4+	511	122	14	51	83	11		
49	Aug-69	RBT	4+	550	93	19	48	79	91		
53	Aug-69	RBT	4+	482	66	11	22	49	60		
55	Aug-89	RBT	4+	485	66	6	22	34	54		
58	Aug-89	RBT	4+	535	93	11	27	60	a1		
59	Aug-a9	RBT	4+	520	62	14	26	66	76		
66	Aug-69	RBT	4+	525	101	12	26	72	90		
67	Aug-a9	RBT	4+	526	132	11	31	101	120		
79	Aug-89	RBT	4+	465	106	12	26	76	94		
19206	Aug-89	RBT	4+	520	112	16	38	61	a7		
3	Oct-89	RBT	4+	497	87	14	24	62	a1		

Table D6. continued

Fish No.	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th
4	Ocl-89	RBT	4+	469	72	11	21	51	62		
5	Ocl-89	RBT	4+	527	69	10	18	36	50		
6	Ocl-89	RBT	4+	475	50		17	39	46		
7	Ocl-89	RBT	4+	453	51	9	16	32	44		
8	Ocl-89	RBT	4+	478	80	14	27	63	76		
10	Ocl-89	RBT	4+	530	67	9	20	32	63		
15	Ocl-89	RBT	4+	460	71	11	21	49	59		
16	Ocl-89	RBT	4+	487	66	10	17	36	56		
18	Ocl-89	RBT	4+	575	75	10	14	45	60		
19	Ocl-89	RBT	4+	419	66	8	19	31	50		
20	Ocl-89	RBT	4+	575	78	12	23	64	75		
21	Ocl-89	RBT	4 t	522	59	12	37	46	56		
25941	Ocl-89	RBT	4+	486	75	8	14	54	66		
25943	Ott-89	RBT	4+	476	69	9	19	44	61		
NO#	Ocl-89	RBT	4+	410	69	8	14	21	46		
	Ocl-89	RBT	4+	463	75	13	42	62	71		
1	May-89	RBT	5+	496	69	16	29	40	52	64	
2	May-89	RBT	5+	561	83	14	21	45	64	79	
6	May-89	RBT	5+	475	76	17	31	51	62	73	
7	May-89	RBT	5 t	470	66	9	17	41	54	64	
9	May-89	RBT	5+	490	80	14	23	46	64	78	
12	May-89	RBT	5 t	522	90	11	21	59	75	87	
13	May-89	RBT	5+	485	76	10	19	46	64	74	
16	May-89	RBT	5+	445	62	10	21	33	50	61	
19	May-89	RBT	5+	570	73	14	19	43	57	69	
23	May-89	RBT	5+	493	63	13	22	43	52	61	
27	May-89	RBT	5+	500	74	10	19	46	60	70	
28	May-89	RBT	5 t	450	89	13	22	54	70	84	
30	May-89	RBT	5+	478	81	8	18	55	69	78	
5	Ocl-89	RBT	5 t	510	66	10	18	34	55	62	
13	Ocl-89	RBT	5+	486	80	10	18	50	67	76	
18	Ocl-89	RBT	6+	525	73	11	17	38	58	64	69

Table D7. Age, growth and condition data for Kokanee collected from Lake Roosevelt, 1988.

Fish No.	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
51	Aug-88	KOK	2+	366	338	0.95
52	Aug-88	KOK	2+	416	373	0.80
61	Aug-88	KOK	2+	497	355	1.11
24	Ott-88	KOK	2+	570	390	0.96
52	Ott-88	KOK	2+	553	370	1.09
2	Aug-88	KOK	3+	1278	492	1.07
10	Aug-88	KOK	3+	963	465	0.96
11	Aug-88	KOK	3+	1149	457	1.20
12	Aug-88	KOK	3+	1000	480	0.90
13	Aug-88	KOK	3+	1008	463	1.02
49	Aug-88	KOK	3+	1149	443	1.32
57	Aug-88	KOK	3+	833	435	1.01
60	Aug-88	KOK	3+	1001	465	1.00
62	Aug-88	KOK	3+	1169	443	1.34
63	Aug-88	KOK	3+	1048	470	1.01
64	Aug-88	KOK	3+	849	424	1.11
3	act-88	KOK	3+	1507	464	1.51
14	Ott-88	KOK	3+	1210	432	1.50
23	Ott-88	KOK	3+	925	479	0.84
24	Ott-88	KOK	3+	1126	471	1.08
25	Ott-88	KOK	3+	1175	470	1.13
25	Ott-88	KOK	3+	958	455	1.02
26	Ott-88	KOK	3+	805	430	1.01
29	Oct-88	KOK	3+	1046	495	0.86
30	act-88	KOK	3+	998	485	0.87
34	Ott-88	KOK	3+	958	460	0.98
34	Ott-88	KOK	3+	928	404	1.41
35	Ott-88	KOK	3+	1178	510	0.89
36	Ott-88	KOK	3+	998	465	0.99
36	Ott-88	KOK	3+	1145	500	0.92
37	Ott-88	KOK	3+	1064	480	0.96
37	Ott-88	KOK	3+	1233	476	1.14
38	Ott-88	KOK	3+	1276	520	0.91
39	Oct-88	KOK	3+	1153	491	0.97
40	Ott-88	KOK	3+	670	445	0.76
41	Oct-88	KOK	3 t	1020	451	1.11
41	Oct-88	KOK	3+	915	485	0.80
42	Ott-88	KOK	3+	1254	480	1.13
43	Ott-88	KOK	3+	1163	482	1.04
44	act-88	KOK	3+	1224	490	1.04
45	Ott-88	KOK	3+	944	440	1.11
46	Ott-88	KOK	3+	722	430	0.91
47	Ott-88	KOK	3+	1051	471	1.01
48	Ott-88	KOK	3+	1122	493	0.94
49	Ott-88	KOK	3+	1233	476	1.14
50	Ott-88	KOK	3+	1068	455	1.13
51	Ott-88	KOK	3+	915	430	1.15
40	Ott-88	KOK	4+	2000	580	1.03
42	Ott-88	KOK	4+	1151	470	1.11

Table D8. Scale **annulus** measurements of Kokanee for age determination and backcalculation analysis from Lake Roosevelt, 1988.

Fish No.	Date	Species	Age	Capture length (mm)	Scale length (mm)	1 st	2nd	3rd	4th
51	8/88	KOK	2+	338	50	21	44		
52	8/88	KOK	2+	373	45	16	40		
61	8/88	KOK	2+	355	46	24	42		
24	10/88	KOK	2+	390	40	21	34		
52	10/88	KOK	2+	370	40	21	33		
2	8/88	KOK	3 t	492	67	15	34	59	
10	8/88	KOK	3+	465	73	17	37		61
11	8/88	KOK	3+	457	72	14	42		57
12	8/88	KOK	3 t	480	71	12	40		58
13	8/88	KOK	3+	463	75	17	36		63
49	8/88	KOK	3+	443	71	14	46		60
57	8/88	KOK	3+	435	96	17	45		71
60	8/88	KOK	3+	465	51	20	36		52
62	8/88	KOK	3+	443	71	13	38		57
63	8/88	KOK	3+	470	56	12	29		45
64	8/88	KOK	3+	424	62	15	34		50
3	10/88	KOK	3+	464	63	24	40		56
14	10/88	KOK	3 t	432	55	18	30		47
23	10/88	KOK	3+	479	46	16	31		40
25	10/88	KOK	3+	470	59	21	41		53
25	10/88	KOK	3+	455	56	21	34		45
26	10/88	KOK	3+	430	59	21	32		46
29	10/88	KOK	3+	495	57	15	33		48
30	10/88	KOK	3+	485	60	20	36		51
34	10/88	KOK	3+	460	41	19	21		32
36	10/88	KOK	3 t	465	54	16	31		43
36	10/88	KOK	3+	500	63	21	37		58
37	10/88	KC%	3+	480	63	19	30		51
37	10/88	KOK	3+	476	49	18	32		44
38	10/88	KOK	3 t	520	72	23	39		65

Table D8. continued

Fish No.	Date	Species	Age	Capture length (mm)	Scale length (mm)	1st	2nd	3rd	4th
39	10/88	KOK	3+	491	50	20	31	46	
40	10/88	KOK	3+	445	48	18	30	41	
41	10/88	KOK	3+	451	50	16	30	41	
42	10/88	KOK	3+	480	58	23	36	50	
43	10/88	KOK	3 t	482	47	16	27	38	
44	10/88	KOK	3+	490	61	21	32	52	
45	10/88	KOK	3 t	440	52	19	30	41	
47	10/88	K m	3+	471	53	21	32	46	
48	10/88	KOK	3+	493	61	23	38	51	
49	10/88	KOK	3+	476	49	18	32	44	
50	10/88	KOK	3+	455	55	21	33	47	
51	10/88	KOK	3 t	430	58	19	30	47	
40	10/88	KOK	4 t	580	78	21	36	47	66
42	10/88	KOK	4 t	470	70	11	31	53	63

Table D9. Age, growth and condition data for Kokanee collected from Lake Roosevelt, 1989.

Fish No.	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
9	May-89	KOK	0+	5	88	0.73
1	Ott-89	KOK	0+	17	123	0.91
19	Aug-89	KOK	1+	80	206	0.92
25	Aug-89	KCX	1+	141	245	0.96
26	Aug-89	KOK	1+	154	250	0.99
31	Aug-89	KOK	1+	68	220	0.64
3	Aug-89	KOK	2+	509	375	0.97
4	Aug-89	KOK	2+	508	368	1.02
5	Ott-89	KOK	2+	350	324	1.03
7	Oct-89	KOK	2+	394	360	0.84
9	Ott-89	KOK	2+	510	370	1.01
9	Ott-89	KOK	2+	493	380	0.90
12	Oct-89	KOK	2+	455	346	1.10
13	Ott-89	KOK	2+	325	340	0.83
28	Ott-89	KOK	2+	586	348	1.39
32	Ott-89	KOK	2+	626	381	1.13
2	May-89	KOK	3+	138	262	0.77
5	May-89	KOK	3+	698	425	0.91
8	May-89	KOK	3+	583	392	0.97
8	May-89	KOK	3+	95	225	0.83
13	May-89	tax	3+	406	455	0.43
15	May-89	KOK	3+	491	375	0.93
16	May-89	KOK	3+	114	250	0.73
16	May-89	KOK	3+	492	363	1.03
17	May-89	KOK	3+	744	421	1.00
18	May-89	KOK	3+	580	395	0.94
19	May-89	KOK	3+	180	282	0.80
21	May-89	KOK	3+	531	395	0.86
23	May-89	KOK	3+	146	270	0.74
6	Aug-89	KOK	3+	1076	446	1.21
25	Aug-89	KOK	3+	1076	446	1.21
3	Ott-89	KOK	3+	724	405	1.09
6	Ott-89	KOK	3+	918	446	1.03
7	Ott-89	KOK	3+	1010	445	1.15
8	Ott-89	KOK	3+	1139	485	1.00
17	Ott-89	KOK	3+	978	475	0.91
19	Ott-89	KOK	3+	1389	532	0.92
13	May-89	KOK	4+	705	425	0.92

Table D10. Scale **annulus** measurements of Kokanee for age determination and backcalculation analysis from Lake Roosevelt, 1989.

Fish No.	Date	Species	Age	Capture length (mm)	Scale length (mm)	1st	2nd	3rd	4th
9	May-89	KOK	0+	88					
1	Oct-89	KOK	0+	123	12				
19	Aug-89	KOK	1+	206	31	19			
25	Aug-89	KOK	1+	245	35	24			
26	Aug-89	KOK	1+	250	32	17			
31	Aug-89	KOK	1+	220	30	16			
3	Aug-89	KOK	2+	375	46	11	35		
4	Aug-89	KOK	2+	368	47	14	32		
5	Oct-89	KOK	2+	324	47	14	30		
7	Oct-89	KOK	2+	360	47	17	32		
9	act-89	KOK	2+	370	47	11	29		
9	Oct-89	KOK	2+	380	56	20	37		
12	Oct-89	KOK	2+	346	43	14	35		
13	Oct-89	KOK	2+	340	50	19	34		
28	Oct-89	KOK	2+	348	47	19	35		
29	Oct-89	KOK	2+	475	55	22	49		
32	Oct-89	KOK	2+	381	49	12	37		
22716	Oct-89	KOK	2+	335	40	14	40		
2	May-89	KOK	3+	262	33	9	19	25	
5	May-89	KOK	3+	425	62	25	45	58	
8	May-89	KOK	3+	392	57	19	39	52	
8	May-89	KOK	3+	225	32	12	37	35	
13	May-89	KOK	3+	455	61	18	33	57	
15	May-99	KOK	3+	375	52	22	32	44	
16	May-89	KOK	3+	250	44	12	25	34	
16	May-89	KOK	3+	363	57	24	31	46	
17	May-89	KOK	3+	421	61	21	33	47	
18	May-89	KOK	3+	395	55	21	34	49	
19	May-89	KOK	3+	282	37	13	26	35	
21	May-89	KOK	3+	395	55	14	31	49	

Table D10. contIntued

Fish No.	Date	Species	Age	Capture length (mm)	Scale length (mm)	1st	2nd	3rd	4th
23	May-69	KOK	3+	270	42	17	30	39	
6	Aug-89	KOK	3+	446	58	17	41	54	
25	Aug-69	KOK	3+	446	56	19	42	50	
3	Oct-89	KOK	3+	405	59	20	36	52	
4	Oct-89	KOK	3+	463	55	10	34	42	
6	Oct-89	KOK	3+	446	47	15	34	43	
7	Oct-89	KOK	3+	445	70	24	46	64	
8	Oct-89	KOK	3+	405	64	12	40	55	
17	Ott-89	KOK	3+	475	51	19	30	46	
19	Ott-89	KOK	3+	532	66	22	39	54	
22715	Ott-69	KOK	3+	391	53	15	36	44	
13	May-69	KOK	4+	425	66	19	36	55	65

Table D11. Age, growth and condition data for Walleye collected from Lake Roosevelt, 1988.

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
1	Aug-88	WE	0+	10	110	0.75
2	Aug-88	WE	0+	7	88	1.03
5	Aug-88	WE	0+	8	114	0.54
6	Aug-88	WE	0+	6	100	0.60
10	Aug-88	WE	0+	5	80	0.98
21	Aug-88	WE	0+	9	105	0.78
40	Aug-88	WE	0+	26	145	0.85
41	Aug-88	WE	0+	25	125	1.28
42	Aug-88	WE	0+	31	135	1.26
43	Aug-88	WE	0+	31	135	1.26
44	Aug-88	WE	0+	30	137	1.17
45	Aug-88	WE	0+	38	145	1.25
49	Aug-88	WE	0+	30	135	1.22
59	Aug-88	WE	0+	15	155	0.40
1	Oct-88	WE	0+	10	90	1.37
2	Oct-88	WE	0+	12	91	1.59
6	Oct-88	WE	0+	73	210	0.79
7	Oct-88	WE	0+	16	117	1.00
8	Oct-88	WE	0+	3	75	0.71
8	act-88	WE	0+	16	115	1.05
10	Ott-88	WE	0+	6	91	0.80
11	Oct-88	WE	0+	34	159	0.85
12	act-88	WE	0+	20	120	1.16
13	Oct-88	WE	0+	8	96	0.90
14	Oct-88	WE	0+	23	125	1.18
14	Oct-88	WE	0+	9	102	0.85
15	Oct-88	WE	0+	10	98	1.06
15	Oct-88	WE	0+	13	110	0.98
17	Oct-88	WE	0+	27	115	1.78
18	Ott-88	WE	0+	11	104	0.98
19	Oct-88	WE	0+	16	112	1.14
22	Ott-88	WE	0+	11	103	1.01
22	Oct-88	WE	0+	10	90	1.37
24	act-88	WE	0+	8	95	0.93
25	Oct-88	WE	0+	8	95	0.93
26	Oct-88	WE	0+	8	95	0.93
27	act-88	WE	0+	9	100	0.90
29	Oct-88	WE	0+	34	100	3.40
2	Aug-88	WE	1+	128	245	0.87
2	Aug-88	WE	1+	64	205	0.74
5	Aug-88	WE	1+	81	220	0.76
6	Aug-88	WE	1+	44	170	0.90
7	Aug-88	WE	1+	52	185	0.82
8	Aug-88	WE	1+	73	200	0.91
9	Aug-88	WE	1+	109	231	0.88
10	Aug-88	WE	1+	70	204	0.82
12	Aug-88	WE	1+	165	220	1.55
12	Aug-88	WE	1+	80	216	0.79
24	Aug-88	WE	1+	110	235	0.85
31	Aug-88	WE	1+	112	235	0.86
33	Aug-88	WE	1+	6	80	1.17
33	Aug-88	WE	1+	101	225	0.89
34	Aug-88	WE	1+	6	75	1.42
34	Aug-88	WE	1+	110	223	0.99
35	Aug-88	WE	1+	75	200	0.94
37	Aug-88	WE	1+	104	231	0.84
58	Aug-88	WE	1+	140	255	0.84
108	Aug-88	WE	1+	54	183	0.88
4	act-88	WE	1+	95	222	0.87
5	act-88	WE	1+	121	230	0.99
7	Oct-88	WE	1+	82	215	0.83

Table D11.

continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
8	Oct-88	WE	1+	69	205	0.80
9	Ocl-88	WE	1+	12	108	0.95
9	Ott-88	WE	1+	56	186	0.87
15	Oct-88	WE	1+	79	210	0.85
15	act-88	WE	1+	39	154	1.07
16	Ott-88	WE	1+	109	236	0.83
16	Ott-88	WE	1+	48	195	0.65
17	Oct-88	WE	1+	74	209	0.81
18	Ott-88	WE	1+	110	237	0.83
19	Oct-88	WE	1+	114	240	0.82
19	act-88	WE	1+	109	237	0.82
20	Ott-88	WE	1+	58	200	0.73
21	Oct-88	WE	1+	103	230	0.85
28	act-88	WE	1+	68	210	0.73
2	Aug-88	WE	2+	176	283	0.76
3	Aug-88	WE	2+	119	262	0.66
4	Aug-88	WE	2+	138	262	0.77
6	Aug-88	WE	2+	158	270	0.80
8	Aug-88	WE	2+	148	267	0.78
24	Aug-88	WE	2+	146	263	0.80
32	Aug-88	WE	2+	168	281	0.76
34	Aug-88	WE	2+	168	266	0.89
35	Aug-86	WE	2+	189	291	0.77
36	Aug-86	WE	2+	375	354	2.29
42	Aug-88	WE	2+	238	327	0.68
43	Aug-88	WE	2+	219	290	0.90
45	Aug-88	WE	2+	299	310	1.00
49	Aug-88	WE	2+	238	327	0.68
50	Aug-88	WE	2+	219	290	0.90
50	Aug-88	WE	2+	145	270	0.74
51	Aug-88	WE	2+	147	275	0.71
52	Aug-88	WE	2+	140	270	0.71
62	Aug-88	WE	2+	110	260	0.63
102	Aug-88	WE	2+	130	248	0.85
123	Aug-88	WE	2+	138	243	0.96
126	Aug-88	WE	2+	109	236	0.83
4	Ott-88	WE	2+	125	235	0.96
21	Ott-88	WE	2+	106	187	1.62
22	Ott-88	WE	2+	242	310	0.81
23	Ocl-88	WE	2+	268	330	0.75
1	Aug-88	WE	3+	378	360	0.81
2	Aug-88	WE	3+	435	285	1.88
3	Aug-88	WE	3+	268	328	0.76
3	Aug-88	WE	3+	338	355	0.76
4	Aug-88	WE	3+	323	355	0.72
5	Aug-88	WE	3+	370	359	0.80
6	Aug-88	WE	3+	286	328	0.81
7	Aug-88	WE	3+	408	375	Ct.??
9	Aug-88	WE	3+	360	349	0.85
11	Aug-88	WE	3+	423	366	0.86
12	Aug-88	WE	3+	449	383	0.80
18	Aug-88	WE	3+	375	373	0.72
19	Aug-88	WE	3+	409	358	0.89
19	Aug-88	WE	3+	310	340	0.79
21	Aug-88	WE	3+	329	333	0.89
22	Aug-88	WE	3+	293	327	0.84
23	Aug-88	WE	3+	245	311	0.81
25	Aug-88	WE	3+	274	327	0.78
25	Aug-88	WE	3+	423	360	0.91
26	Aug-88	WE	3+	431	360	0.92
26	Aug-88	WE	3+	399	351	0.92
27	Aug-88	WE	3+	440	370	0.87
27	Aug-88	WE	3+	374	344	0.92
28	Aug-88	WE	3+	335	357	0.74
28	Aug-88	WE	3+	445	284	1.94

Table D11. continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
29	Aug-88	WE	3+	261	324	0.77
30	Aug-88	WE	3+	405	366	0.83
31	Aug-88	WE	3+	359	355	0.80
33	Aug-88	WE	3+	391	375	0.74
33	Aug-88	WE	3+	302	329	0.85
33	Aug-88	WE	3+	207	295	0.81
34	Aug-88	WE	3+	394	355	0.88
35	Aug-88	WE	3+	388	355	0.87
35	Aug-88	WE	3+	418	345	1.02
36	Aug-88	WE	3+	360	345	0.88
36	Aug-88	WE	3+	264	318	0.62
37	Aug-88	WE	3+	336	350	0.78
37	Aug-88	WE	3+	378	348	0.90
37	Aug-88	WE	3+	279	323	0.83
38	Aug-88	WE	3+	471	395	0.76
38	Aug-88	WE	3+	406	350	0.95
38	Aug-88	WE	3+	389	348	0.92
39	Aug-88	WE	3+	352	357	0.77
39	Aug-88	WE	3+	333	340	0.85
40	Aug-88	WE	3+	383	347	0.92
41	Aug-88	WE	3+	441	367	0.89
44	Aug-88	WE	3+	305	339	0.78
46	Aug-88	WE	3+	366	331	1.01
49	Aug-88	WE	3+	423	380	0.77
53	Aug-88	WE	3+	441	376	0.83
54	Aug-88	WE	3+	336	353	0.76
55	Aug-88	WE	3+	234	302	0.85
57	Aug-88	WE	3+	479	370	0.95
58	Aug-88	WE	3+	273	330	0.76
58	Aug-88	WE	3+	418	300	1.55
60	Aug-88	WE	3+	275	310	0.92
65	Aug-88	WE	3+	298	333	0.81
93	Aug-86	WE	3+	356	362	0.75
94	Aug-88	WE	3+	253	323	0.75
96	Aug-88	WE	3+	318	336	0.84
98	Aug-88	WE	3+	215	330	0.60
99	Aug-88	WE	3+	373	366	0.77
100	Aug-88	WE	3+	198	334	0.53
103	Aug-88	WE	3+	253	315	0.81
104	Aug-88	WE	3+	301	338	0.78
105	Aug-88	WE	3+	355	353	0.81
106	Aug-88	WE	3+	464	383	0.83
107	Aug-88	WE	3+	273	319	0.84
109	Aug-88	WE	3+	286	325	0.83
110	Aug-88	WE	3+	320	331	0.88
113	Aug-88	WE	3+	349	330	0.97
113	Aug-88	WE	3+	349	330	0.97
114	Aug-86	WE	3+	335	355	0.75
115	Aug-88	WE	3+	300	337	0.78
116	Aug-68	WE	3+	323	331	0.89
117	Aug-88	WE	3+	329	340	0.84
118	Aug-88	WE	3+	353	346	0.85
119	Aug-88	WE	3+	338	347	0.81
122	Aug-88	WE	3+	358	336	0.94
124	Aug-88	WE	3+	280	330	0.78
125	Aug-88	WE	3+	424	358	0.92
340	Aug-88	WE	3+	245	311	0.81
1	Ott-88	WE	3+	317	335	0.84
2	act-88	WE	3+	309	347	0.74
4	act-88	WE	3+	268	325	0.78
5	Ott-88	WE	3+	286	325	0.03
7	act-88	WE	3+	125	365	0.26
11	act-88	WE	3+	215	308	0.74
12	act-88	WE	3+	339	345	0.83
14	Ott-88	WE	3+	275	316	0.87

Table D11.

continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
14	Oct-88	WE	3+	392	345	0.95
16	Ott-86	WE	3+	417	370	0.82
18	Ott-88	WE	3+	395	363	0.83
18	Ott-88	WE	3+	243	325	0.71
18	Ocl-88	WE	3+	467	382	0.84
20	Oct-88	WE	3+	353	361	0.75
25	Ott-88	WE	3+	392	360	0.84
26	Ott-88	WE	3+	348	350	0.81
27	Oct-88	WE	3+	615	425	0.80
32	Ocl-88	WE	3+	328	345	0.80
33	Ott-88	WE	3+	228	334	0.61
24025	Ocl-88	WE	3+	508	378	0.94
24056	Ott-88	WE	3+	594	355	1.33
1	Aug-88	WE	4+	522	420	0.70
2	Aug-88	WE	4+	546	402	0.84
4	Aug-68	WE	4+	504	390	0.85
5	Aug-88	WE	4+	593	441	0.69
6	Aug-88	WE	4+	798	440	0.94
7	Aug-88	WE	4+	563	398	0.89
8	Aug-88	WE	4+	453	381	0.82
8	Aug-68	WE	4+	638	444	0.73
9	Aug-88	WE	4+	574	426	0.74
10	Aug-88	WE	4+	509	400	0.80
11	Aug-88	WE	4+	580	410	0.84
12	Aug-88	WE	4+	476	401	0.74
12	Aug-88	WE	4+	664	448	0.74
13	Aug-88	WE	4+	507	380	0.92
13	Aug-88	WE	4+	639	428	0.82
14	Aug-88	WE	4+	636	415	0.89
14	Aug-88	WE	4+	530	398	0.84
15	Aug-88	WE	4+	841	448	0.94
16	Aug-88	WE	4+	337	450	0.37
16	Aug-68	WE	4+	423	362	0.89
17	Aug-88	WE	4+	657	446	0.74
17	Aug-88	WE	4+	416	384	0.73
17	Aug-88	WE	4+	501	402	0.77
18	Aug-88	WE	4+	690	430	0.87
18	Aug-88	WE	4+	354	353	0.80
19	Aug-88	WE	4+	329	333	0.89
19	Aug-88	WE	4+	508	419	0.69
20	Aug-88	WE	4+	428	366	0.87
20	Aug-88	WE	4+	615	454	0.66
21	Aug-88	WE	4+	616	401	0.96
23	Aug-88	WE	4+	597	408	0.88
24	Aug-88	WE	4+	574	394	0.94
25	Aug-88	WE	4+	581	414	0.82
28	Aug-88	WE	4+	565	395	0.92
29	Aug-88	WE	4+	510	383	0.91
29	Aug-88	WE	4+	426	370	0.84
29	Aug-88	WE	4+	638	435	0.78
30	Aug-88	WE	4+	525	395	0.85
30	Aug-88	WE	4+	448	375	0.85
30	Aug-88	WE	4+	513	390	0.86
31	Aug-88	WE	4+	603	420	0.81
31	Aug-88	WE	4+	406	364	0.84
31	Aug-86	WE	4+	624	415	0.87
32	Aug-88	WE	4+	497	385	0.87
32	Aug-88	WE	4+	580	406	0.87
32	Aug-88	WE	4+	513	400	0.80
35	Aug-88	WE	4+	495	380	0.90
36	Aug-88	WE	4+	568	430	0.71
50	Aug-88	WE	4+	534	405	0.80
51	Aug-88	WE	4+	514	395	0.83
51	Aug-88	WE	4+	464	380	0.85
52	Aug-88	WE	4+	661	425	0.86

Table D11. continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
52	Aug-88	WE	4+	519	394	0.85
53	Aug-88	WE	4+	490	370	0.97
53	Aug-88	WE	4+	455	380	0.83
54	Aug-88	WE	4+	400	367	0.81
54	Aug-88	WE	4+	471	400	0.74
55	Aug-88	WE	4+	531	406	0.79
55	Aug-88	WE	4+	635	410	0.92
56	Aug-88	WE	4+	507	405	0.76
56	Aug-88	WE	4+	775	440	0.91
59	Aug-88	WE	4+	452	380	0.82
59	Aug-88	WE	4+	397	390	0.67
60	Aug-88	WE	4+	669	425	0.87
61	Aug-88	WE	4+	583	405	0.88
61	Aug-88	WE	4+	377	371	0.74
61	Aug-88	WE	4+	381	370	0.75
75	Aug-88	WE	4+	500	390	0.84
76	Aug-88	WE	4+	484	390	0.82
95	Aug-88	WE	4+	514	395	0.83
97	Aug-88	WE	4+	412	371	0.81
101	Aug-88	WE	4+	480	385	0.84
120	Aug-88	WE	4+	745	453	0.80
121	Aug-88	WE	4+	512	388	0.88
34A	Aug-88	WE	4+	391	373	0.75
1	act-88	WE	4+	898	456	0.95
1	act-88	WE	4+	455	385	0.80
1	Oct-88	WE	4+	918	400	1.43
1	act-88	WE	4+	555	490	0.47
2	Oct-88	WE	4+	505	410	0.73
3	act-88	WE	4+	492	390	0.83
3	Oct-88	WE	4+	501	388	0.86
3	act-88	WE	4+	521	400	0.81
4	Ott-88	WE	4+	439	380	0.80
5	Ott-88	WE	4+	415	380	0.76
6	Ott-88	WE	4+	460	385	0.81
7	Ott-88	WE	4+	540	416	0.75
8	Ott-88	WE	4+	755	446	0.85
9	Ott-88	WE	4+	635	420	0.86
10	Ott-88	WE	4+	499	390	0.84
10	Ott-88	WE	4+	555	416	0.77
11	Oct-88	WE	4+	573	415	0.80
11	Ott-88	WE	4+	545	396	0.88
11	Ott-88	WE	4+	980	473	0.93
11	Ott-88	WE	4+	1408	463	1.42
12	Ott-88	WE	4+	645	420	0.87
12	Ott-88	WE	4+	1390	442	1.61
13	Ott-88	WE	4+	630	440	0.74
15	Ott-88	WE	4+	410	391	0.69
15	Ott-88	WE	4+	710	431	0.89
16	Ott-88	WE	4+	645	430	0.81
16	Ott-88	WE	4+	451	390	0.76
17	Ott-88	WE	4+	530	391	0.89
17	Ott-88	WE	4+	771	435	0.94
18	Oct-88	WE	4+	475	393	0.78
18	Ott-88	WE	4+	498	390	0.84
19	Ott-88	WE	4+	592	392	0.98
20	Ott-88	WE	4+	582	412	0.83
21	Ott-88	WE	4+	593	410	0.86
21	Ott-88	WE	4+	475	400	0.74
22	Ott-88	WE	4+	405	380	0.74
23	Ott-88	WE	4+	563	400	0.88
24	Ott-88	WE	4+	497	391	0.83
27	Ott-88	WE	4+	675	415	0.94
27	Ott-88	WE	4+	610	405	0.92
28	Ott-88	WE	4+	791	440	0.93
29	Ott-88	WE	4+	675	430	0.85

Table D11. continued...

Fish No	Date	Species	Age	Weight (g)	Capture Length (mm)	Condition Factor
30	Oil-88	WE	4+	582	395	0.94
31	Ott-88	WE	4+	550	400	0.86
32	Ott-88	WE	4+	589	420	0.80
41	Ott-88	WE	4+	456	370	0.90
44	Ott-88	WE	4+	674	402	1.04
24028	Ott-88	WE	4+	723	415	1.01
24029	Ott-88	WE	4+	618	395	1.00
24032	Ott-88	WE	4+	605	405	0.91
24034	Ott-88	WE	4+	543	380	0.99
24035	Ott-88	WE	4+	664	415	0.93
24037	Ott-88	WE	4+	590	396	0.95
24050	Ott-88	WE	4+	584	400	0.91
24053	Ott-88	WE	4+	878	436	1.06
24055	Ott-88	WE	4+	580	429	0.73
24057	Ott-88	WE	4+	506	380	0.92
24061	Ott-88	WE	4+	514	385	0.90
3	Aug-88	WE	5+	1168	528	0.79
4	Aug-88	WE	5+	1239	515	0.91
7	Aug-88	WE	5+	1034	515	0.76
8	Aug-88	WE	5+	928	478	0.85
12	Aug-88	WE	5+	948	485	0.83
22	Aug-88	WE	5+	972	488	0.84
28	Aug-88	WE	5+	527	400	0.82
56	Aug-88	WE	5+	720	445	0.82
57	Aug-88	WE	5+	663	450	0.73
60	Aug-88	WE	5+	988	480	0.89
14	Ott-88	WE	5+	880	460	0.90
28	Ott-88	WE	5+	903	458	0.95
29	Ott-88	WE	5+	1129	485	0.99
33	Oct-88	WE	5+	823	455	0.87
39	Ott-88	WE	5+	1088	476	1.01
24026	Ott-88	WE	5+	896	460	0.92
24027	Ott-88	WE	5+	775	552	0.46
5	Aug-88	WE	6+	1547	555	0.90
16	Ott-88	WE	6+	1155	500	0.92
17	Ott-88	WE	6+	1295	520	0.92
40	Aug-88	WE	9+	4050	742	0.99
38	Ott-88	WE	10+	4250	761	0.96

Table D12. Scale annulus measurements of Walleye for age determination and backcalculation analysis from Lake Roosevelt, 1988.

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1	Aug-88	WE	0+	110	26										
2	Aug-88	WE	0+	164	36										
2	Aug-88	WE	0+	88	21										
3	Aug-88	WE	0+	132	35										
5	Aug-88	WE	0+	114	22										
6	Aug-88	WE	0+	100	27										
10	Aug-88	WE	0+	80	31										
21	Aug-88	WE	0+	105	32										
40	Aug-88	WE	0+	145	20										
41	Aug-88	WE	0+	125	23										
42	Aug-88	WE	0+	135	20										
43	Aug-88	WE	0+	135	26										
44	Aug-88	WE	0+	137	20										
45	Aug-88	WE	0+	145	19										
49	Aug-88	WE	0+	135	25										
59	Aug-88	WE	0+	155	20										
1	Ott-88	WE	0+	90	30										
2	Ott-88	WE	0+	91	31										
6	Oct-88	WE	0+	210	29										
7	Ott-88	WE	0+	117	31										
8	Ott-88	WE	0+	75	23										
8	Ott-88	WE	0+	115	30										
10	Ott-88	WE	0+	91	27										
11	Oct-88	WE	0+	159	31										
12	Ott-88	WE	0+	120	30										
13	Ott-88	WE	0+	96	35										
14	Ott-88	WE	0+	125	28										
14	Ott-88	WE	0+	102	31										
15	Oct-88	WE	0+	98	34										
15	Oct-88	WE	0+	110	32										
17	Ott-88	WE	0+	115	21										
18	Oct-88	WE	0+	104	49										
19	Oct-88	WE	0+	112	50										
22	Ott-88	WE	0+	103	31										

Table 012.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
22	Oct-88	WE	0t	90	27										
24	Ott-88	WE	0t	95	13										
25	act-88	WE	0+	95	23										
26	Ott-88	WE	0+	95	28										
27	Ott-88	WE	0+	100	28										
29	Ott-88	WE	0+	100	27										
2	Aug-88	WE	1+	245	42	32									
2	Aug-88	WE	1+	205	47	36									
5	Aug-88	WE	1+	220	40	31									
6	Aug-88	WE	1+	170	35	30									
7	Aug-88	WE	1+	185	45	29									
8	Aug-88	WE	1+	200	45	32									
9	Aug-88	WE	1+	231	48	31									
10	Aug-88	WE	1+	204	50	35									
12	Aug-88	WE	1+	220	44	35									
12	Aug-88	WE	1+	216	51	36									
24	Aug-88	WE	1+	235	39	29									
31	Aug-88	WE	1+	235	52	35									
33	Aug-88	WE	1+	80	35	25									
33	Aug-88	WE	1+	225	45	33									
34	Aug-88	WE	1+	75	34	26									
34	Aug-88	WE	i t	223	45	34									
35	Aug-88	WE	1+	200	43	31									
37	Aug-88	WE	1+	231	48	32									
58	Aug-88	WE	1+	255	50	38									
80	Aug-88	WE	1+	191	46	37									
91	Aug-88	WE	1+	225	53	42									
108	Aug-88	WE	1+	183	41	33									
435	Aug-88	WE	1+	253	62	43									
4	Ott-88	WE	1+	222	50	36									
5	Ott-88	WE	1+	230	44	35									
7	Ott-88	WE	1+	215	50	32									
8	act-88	WE	1+	205	46	33									
9	Ott-88	WE	1+	108	44	28									
9	Ott-86	WE	1+	186	42	30									
15	Ott-88	WE	1+	210	46	33									
15	Ott-88	WE	1+	154	34	31									

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
16	Oct-88	WE	1+	236	43	29									
16	Oct-88	WE	1+	195	40	32									
17	Oct-88	WE	1+	209	55	37									
18	Oct-88	WE	1+	237	55	35									
19	Oct-88	WE	1+	240	33	41									
19	Oct-88	WE	1+	237	57	35									
20	Oct-88	WE	1+	200	31	40									
21	Oct-88	WE	1+	230	55	37									
28	Oct-88	WE	1+	210	44	36									
1	Aug-88	WE	2+	302	60	31	40								
2	Aug-88	WE	2+	283	71	31	56								
3	Aug-88	WE	2+	262	70	33	55								
4	Aug-88	WE	2+	262	61	37	50								
6	Aug-88	WE	2+	270	57	36	49								
8	Aug-88	WE	2+	267	75	37	57								
24	Aug-88	WE	2+	263	56	31	50								
32	Aug-88	WE	2+	281	60	34	53								
34	Aug-88	WE	2+	266	61	35	52								
35	Aug-88	WE	2+	291	63	35	50								
36	Aug-88	WE	2+	354	62	34	55								
42	Aug-88	WE	2+	327	65	31	47								
43	Aug-88	WE	2+	290	76	33	57								
45	Aug-88	WE	2+	310	70	37	57								
49	Aug-88	WE	2+	327	65	31	47								
50	Aug-88	WE	2+	290	76	33	57								
50	Aug-88	WE	2+	270	61	37	53								
51	Aug-88	WE	2+	275	63	36	53								
52	Aug-88	WE	2+	270	70	37	61								
62	Aug-88	WE	2+	260	58	31	50								
76	Aug-88	WE	2+	270	54	36	50								
77	Aug-88	WE	2+	250	61	35	53								
88	Aug-88	WE	2+	267	57	37	40								
102	Aug-88	WE	2+	240	54	36	49								
123	Aug-88	WE	2+	243	57	38	50								
126	Aug-88	WE	2+	236	60	36	52								
427	Aug-88	WE	2+	255	75	38	58								

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
429	Aug-88	WE	2+	300	70	40	60								
433	Aug-88	WE	2+	365	60	36	51								
434	Aug-88	WE	2+	352	84	40	72								
4	Oct-88	WE	2+	235	60	31	50								
21	Oct-88	WE	2+	187	61	34	50								
22	Oct-88	WE	2+	310	52	30	43								
23	Oct-88	WE	2+	330	60	36	53								
1	Aug-88	WE	3+	360	72	41	53	60							
2	Aug-88	WE	3+	285	a0	36	55	71							
3	Aug-88	WE	3+	328	79	36	53	70							
3	Aug-88	WE	3+	355	77	34	50	68							
4	Aug-88	WE	3+	355	82	36	53	71							
5	Aug-88	WE	3+	365	74	23	51	67							
5	Aug-88	WE	3+	359	76	31	56	70							
6	Aug-88	WE	3+	328	85	41	60	76							
7	Aug-88	WE	3+	375	88	41	58	77							
9	Aug-88	WE	3+	349	71	39	52	66							
11	Aug-88	WE	3+	366	69	31	48	63							
12	Aug-88	WE	3+	383	83	35	56	71							
18	Aug-88	WE	3+	373	88	37	56	74							
19	Aug-a8	WE	3+	358	80	37	53	69							
19	Aug-88	WE	3+	340	86	38	57	77							
21	Aug-88	WE	3+	333	79	36	53	70							
22	Aug-88	WE	3+	327	75	35	50	67							
23	Aug-88	WE	3+	311	77	37	53	68							
25	Aug-88	WE	3+	327	85	39	59	77							
25	Aug-88	WE	3+	360	81	34	51	72							
26	Aug-88	WE	3+	360	104	42	71	91							
26	Aug-88	WE	3+	351	82	37	57	73							
27	Aug-a8	WE	3+	370	76	37	48	65							
27	Aug-88	WE	3+	344	a5	44	61	78							
28	Aug-88	WE	3+	357	07	38	60	75							
28	Aug-88	WE	3+	284	a5	36	61	75							
29	Aug-88	WE	3+	324	83	36	57	72							
30	Aug-88	WE	3+	366	78	35	56	67							
33	Aug-88	WE	3+	375	81	41	62	73							
33	Aug-88	WE	3+	329	90	38	58	81							

Table D12. continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
33	Aug-88	WE	3+	295	68	31	49	56							
34	Aug-88	WE	3+	355	88	42	83	80							
35	Aug-a8	WE	3+	355	a2	39	57	77							
35	Aug-88	WE	3+	345	77	36	58	69							
36	Aug-88	WE	3t	345	90	40	56	76							
36	Aug-88	WE	3+	318	81	37	61	72							
37	Aug-88	WE	3+	350	a3	35	44	70							
37	Aug-88	WE	3+	348	96	37	64	78							
37	Aug-88	WE	3+	323	76	36	57	69							
38	Aug-88	WE	3+	395	91	39	61	78							
38	Aug-88	WE	3+	350	76	38	54	70							
38	Aug-88	WE	3+	348	a2	41	58	73							
39	Aug-88	WE	3+	357	81	40	60	73							
39	Aug-88	WE	3+	340	90	40	61	78							
40	Aug-88	WE	3+	347	86	37	54	73							
41	Aug-88	WE	3+	367	74	35	44	62							
44	Aug-88	WE	3+	339	80	34	55	69							
46	Aug-88	WE	3+	331	78	36	55	68							
49	Aug-88	WE	3+	380	88	41	60	75							
53	Aug-a8	WE	3+	376	87	33	56	72							
54	Aug-88	WE	3+	353	80	37	58	70							
55	Aug-88	WE	3+	302	78	36	57	68							
57	Aug-88	WE	3+	370	04	38	56	73							
58	Aug-88	WE	3+	330	81	39	57	70							
58	Aug-88	WE	3+	300	75	35	50	69							
60	Aug-88	WE	3+	310	81	37	58	72							
65	Aug-88	WE	3+	333	87	36	56	75							
66	Aug-88	WE	3+	350	a7	41	62	80							
67	Aug-88	WE	3+	355	93	41	57	83							
68	Aug-88	WE	3+	320	a2	38	56	77							
69	Aug-88	WE	3+	357	75	34	52	66							
70	Aug-88	WE	3+	310	75	33	50	65							
71	Aug-88	WE	3+	350	74	36	54	65							
72	Aug-88	WE	3+	340	78	37	56	67							
73	Aug-88	WE	3+	330	81	40	59	72							
74	Aug-88	WE	3+	322	76	36	55	70							
78	Aug-88	WE	3+	352	78	36	57	67							

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
81	AUG-68	WE	3+	330	80	36	55	71							
82	Aug-88	WE	3+	342	90	45	65	81							
a3	Aug-88	WE	3+	332	78	35	56	69							
84	Aug-88	WE	3+	325	84	38	60	73							
65	Aug-68	WE	3+	314	77	34	53	66							
86	Aug-88	WE	3+	346	72	31	50	61							
67	Aug-86	WE	3+	332	77	35	56	70							
89	Aug-88	WE	3+	350	81	36	61	74							
90	Aug-88	WE	3+	316	77	35	58	67							
92	Aug-88	WE	3+	335	81	38	57	73							
93	Aug-88	WE	3+	362	86	45	68	78							
94	Aug-88	WE	3+	323	79	33	51	70							
96	Aug-88	WE	3+	336	81	39	58	71							
96	Aug-88	WE	3+	330	77	36	52	68							
99	Aug-88	WE	3+	365	88	41	60	75							
100	Aug-88	WE	3+	334	60	36	56	71							
103	Aug-88	WE	3+	315	77	37	58	66							
104	Aug-88	WE	3+	336	79	36	58	67							
105	Aug-88	WE	3+	353	62	37	61	73							
106	Aug-88	WE	3+	383	62	36	60	76							
107	Aug-88	WE	3+	319	76	35	57	66							
109	Aug-88	WE	3+	325	78	32	58	67							
110	Aug-88	WE	3 t	331	86	37	64	78							
113	Aug-88	WE	3+	330	80	40	56	70							
113	Aug-88	WE	3+	330	80	40	56	70							
114	Aug-88	WE	3+	355	34	37	51	60							
115	Aug-88	WE	3+	337	76	35	52	66							
116	Aug-88	WE	3+	331	85	37	62	74							
117	Aug-88	WE	3+	340	77	36	57	68							
118	Aug-88	WE	3+	346	86	41	56	77							
119	Aug-88	WE	3+	347	61	39	60	78							
122	Aug-66	WE	3+	336	66	40	62	78							
124	Aug-68	WE	3+	330	78	37	57	69							
125	Aug-88	WE	3+	358	70	30	51	62							
426	Aug-88	WE	3+	326	77	35	56	67							
428	Aug-68	WE	3 t	335	67	36	53	78							
430	Aug-86	WE	3+	320	79	39	56	70							

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (m m)	Scale length (m m)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
431	Aug-88	WE	3+	250	77	36	57	66							
432	Aug-88	WE	3+	322	76	35	54	68							
436	Aug-88	WE	3+	320	77	39	57	68							
440	Aug-86	WE	3 t	362	72	37	51	66							
443	Aug-88	WE	3+	325	85	43	60	78							
444	Aug-88	WE	3+	341	64	50	65	77							
340	Aug-88	WE	3+	311	80	37	57	71							
1	Oct-88	WE	3+	335	64	36	54	74							
2	Oct-88	WE	3+	347	74	30	43	61							
4	Oct-88	WE	3+	325	72	31	50	64							
5	Oct-88	WE	3+	325	81	32	51	70							
7	Oct-88	WE	3+	365	82	27	53	71							
11	Ott-88	WE	3+	308	70	29	41	62							
12	Oct-88	WE	3+	345	72	31	56	66							
14	Oct-88	WE	3+	316	81	29	44	61							
14	Oct-88	WE	3 t	345	76	31	53	68							
16	Oct-88	WE	3+	370	91	37	33	71							
18	Oct-88	WE	3+	363	66	31	43	56							
18	act-68	WE	3+	325	76	36	51	67							
18	Oct-88	WE	3 t	382	75	31	50	67							
20	Oct-88	WE	3+	361	79	36	55	70							
25	Oct-88	WE	3+	360	81	31	53	77							
28	Oct-88	WE	3+	350	66	40	56	76							
27	Oct-88	WE	3 t	425	67	32	67	78							
32	Ott-88	WE	3+	345	72	33	46	67							
33	Oct-88	WE	3 t	334	74	37	56	66							
24025	Oct-88	WE	3+	378	74	26	51	63							
24056	Oct-88	WE	3+	355	71	35	56	63							
1	Aug-88	WE	4+	420	91	35	52	66	81						
2	Aug-88	WE	4+	402	92	43	54	71	85						
4	Aug-68	WE	4+	390	114	41	60	81	103						
5	Aug-88	WE	4+	441	100	40	57	76	89						
6	Aug-88	WE	4+	440	112	50	71	89	101						
7	Aug-86	WE	4+	396	96	37	58	73	a5						
6	Aug-88	WE	4+	381	67	36	51	63	77						
8	Aug-88	WE	4+	444	96	36	54	70	83						
9	Aug-88	WE	4+	426	94	36	50	76	63						

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
9	Aug-88	WE	4+	445	97	36	58	76	89						
10	Aug-88	WE	4+	400	99	41	58	74	90						
11	Aug-68	WE	4+	410	96	34	51	76	90						
12	Aug-88	WE	4+	401	90	40	58	73	89						
12	Aug-88	WE	4+	446	121	45	66	81	103						
13	Aug-88	WE	4+	380	120	40	68	81	105						
13	Aug-88	WE	4 t	426	111	36	66	81	101						
14	Aug-68	WE	4+	415	101	43	59	75	91						
14	Aug-66	WE	4+	396	100	33	57	75	91						
15	Aug-66	WE	4+	448	117	48	68	90	110						
16	Aug-88	WE	4+	450	112	47	67	85	105						
16	Aug-88	WE	4 t	362	67	35	52	64	76						
17	Aug-88	WE	4+	446	106	45	61	80	97						
17	Aug-88	WE	4+	384	66	38	51	67	80						
17	Aug-86	WE	4+	402	105	42	62	76	93						
18	Aug-88	WE	4+	430	96	47	53	78	90						
18	Aug-88	WE	4+	353	67	40	58	67	79						
19	Aug-88	WE	4+	333	89	37	61	70	80						
19	Aug-88	WE	4+	419	98	32	51	77	69						
20	Aug-86	WE	4+	366	107	40	63	79	100						
20	Aug-88	WE	4+	454	107	40	58	76	95						
21	Aug-86	WE	4+	401	102	39	62	75	89						
23	Aug-88	WE	4+	408	90	38	55	76	87						
24	Aug-88	WE	4+	394	102	39	54	76	91						
25	Aug-68	WE	4+	414	105	40	56	79	93						
26	Aug-88	WE	4+	395	119	45	61	91	110						
29	Aug-88	WE	4+	363	112	38	52	67	100						
29	Aug-68	WE	4 t	370	101	30	45	76	95						
29	Aug-88	WE	4+	435	100	39	58	76	90						
30	Aug-88	WE	4+	395	91	33	51	66	81						
30	Aug-88	WE	4+	375	109	36	50	74	89						
30	Aug-88	WE	4+	390	106	43	61	81	95						
31	Aug-88	WE	4+	420	102	37	61	83	96						
31	Aug-86	WE	4+	364	98	40	61	73	90						
31	Aug-86	WE	4+	415	103	41	57	77	69						
32	Aug-88	WE	4+	365	89	35	56	67	81						
32	Aug-88	WE	4+	406	102	41	60	76	91						

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
32	Aug-88	WE	4+	400	100	40	58	79	90						
35	Aug-88	WE	4+	380	94	40	61	77	86						
36	Aug-68	WE	4+	430	81	33	51	60	71						
50	Aug-88	WE	4+	405	97	38	57	73	86						
51	Aug-66	WE	4+	395	94	36	51	70	85						
51	Aug-88	WE	4+	380	96	37	58	71	64						
52	Aug-88	WE	4+	425	107	38	62	78	91						
52	Aug-88	WE	4+	394	99	36	61	77	91						
53	Aug-88	WE	4+	370	90	36	50	64	80						
53	Aug-68	WE	4+	380	92	36	53	70	81						
54	Aug-88	WE	4+	367	101	36	55	77	90						
54	Aug-88	WE	4+	400	98	37	56	73	88						
55	Aug-68	WE	4+	406	111	39	63	81	100						
55	Aug-88	WE	4+	410	91	35	54	70	81						
56	Aug-66	WE	4+	405	107	40	59	77	96						
56	Aug-88	WE	4+	440	101	36	51	70	96						
59	Aug-88	WE	4+	380	99	36	57	78	87						
59	Aug-88	WE	4+	390	90	38	57	73	84						
60	Aug-88	WE	4+	425	107	42	67	81	96						
61	Aug-88	WE	4+	405	120	40	66	76	101						
61	Aug-88	WE	4+	371	93	38	60	75	86						
61	Aug-88	WE	4+	370	96	37	58	78	90						
75	Aug-88	WE	4+	390	107	39	57	76	93						
75	Aug-68	WE	4+	385	98	36	50	73	89						
76	Aug-86	WE	4+	390	99	67	56	71	67						
95	Aug-88	WE	4+	395	96	37	61	75	66						
97	Aug-88	WE	4+	371	96	36	56	74	88						
101	Aug-88	WE	4+	365	91	36	57	70	82						
120	Aug-88	WE	4+	453	11	43	61	81	100						
121	Aug-88	WE	4+	368	107	41	63	61	95						
437	Aug-86	WE	4+	425	112	37	58	80	106						
439	Aug-86	WE	4+	372	67	30	41	50	61						
441	Aug-86	WE	4+	390	100	37	58	76	91						
442	Aug-88	WE	4+	401	101	36	56	68	67						
34A	Aug-88	WE	4+	373	101	42	61	77	90						
1	Oct-88	WE	4+	456	101	34	55	74	90						
1	Oct-88	WE	4+	365	99	37	55	71	83						

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
1	Oct-88	WE	4 t	400	93	36	53	71	86						
1	Oct-88	WE	4+	490	99	31	56	77	91						
2	Oct-88	WE	4 t	410	92	31	46	67	81						
3	Oct-88	WE	4+	390	85	30	46	65	78						
3	Oct-88	WE	4 t	366	100	35	55	71	90						
3	Ott-66	WE	4+	400	96	32	50	67	87						
4	Oct-88	WE	4 t	380	67	31	50	68	80						
5	Ott-68	WE	4+	380	90	34	53	67	81						
6	Oct-88	WE	4+	365	92	34	50	61	63						
7	Oct-88	WE	4 t	416	81	36	46	58	78						
8	Oct-88	WE	4+	446	96	30	35	58	78						
9	Oct-88	WE	4+	420	101	34	56	69	92						
10	Oct-88	WE	4+	390	77	26	44	54	68						
10	Oct-88	WE	4 t	416	102	33	60	77	80						
11	Oct-88	WE	4+	415	66	30	51	70	80						
11	Oct-88	WE	4+	396	81	34	53	64	70						
11	Oct-88	WE	4+	473	86	36	51	65	76						
11	Oct-88	WE	4+	463	96	33	48	66	73						
12	Oct-88	WE	4+	420	85	35	50	66	72						
12	Oct-88	WE	4+	442	103	41	65	77	69						
13	Oct-88	WE	4 t	440	64	35	51	62	77						
15	Oct-88	WE	4+	391	82	31	46	67	73						
15	Oct-88	WE	4+	431	102	38	58	74	93						
16	Oct-88	WE	4+	430	94	33	51	76	85						
16	Oct-88	WE	4+	390	62	29	50	65	73						
17	Oct-88	WE	4+	391	81	31	46	57	72						
17	Oct-88	WE	4+	435	93	36	51	73	85						
16	Oct-88	WE	4+	393	92	32	47	69	83						
18	Oct-88	WE	4 t	390	101	41	61	77	86						
19	Oct-88	WE	4+	392	96	36	60	75	88						
20	Oct-88	WE	4+	412	104	40	62	80	94						
21	oct-86	WE	4+	410	92	37	51	68	81						
21	Oct-88	WE	4+	400	91	33	51	72	69						
22	Oct-88	WE	4+	360	91	38	56	73	a6						
23	Oct-88	WE	4+	400	101	31	56	72	67						
24	Oct-88	WE	4+	391	107	33	57	81	96						
27	Oct-88	WE	4+	415	74	28	41	60	71						

Table D12.

continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
27	Oct-88	WE	4+	405	100	37	61	74	90						
28	act-88	WE	4+	440	95	33	54	67	84						
29	Oct-88	WE	4+	430	88	36	52	62	77						
30	Oct-88	WE	4+	395	83	35	51	63	75						
31	Oct-88	WE	4+	400	83	31	53	64	78						
32	Oct-88	WE	4+	420	89	33	52	68	79						
41	Oct-88	WE	4+	370	93	37	55	71	81						
44	Oct-88	WE	4+	402	104	38	61	78	91						
24028	Oct-88	WE	4+	415	86	33	46	66	79						
24029	Oct-88	WE	4+	395	75	30	43	53	68						
24032	Oct-88	WE	4+	405	79	33	47	61	71						
24034	Oct-88	WE	4+	380	81	31	46	60	72						
24035	Oct-88	WE	4+	415	82	35	47	59	75						
24037	Oct-88	WE	4+	396	66	27	40	49	68						
24050	Oct-88	WE	4+	400	101	30	51	73	86						
24053	Oct-88	WE	4+	436	97	36	54	71	88						
24055	Oct-88	WE	4+	429	73	30	40	51	64						
24057	Oct-88	WE	4+	380	76	30	45	60	70						
24061	Oct-88	WE	4+	385	77	31	48	61	70						
3	Aug-88	WE	5+	528	110	39	55	71	86	101					
4	Aug-88	WE	5+	515	104	36	51	65	83	94					
7	Aug-88	WE	5+	515	136	43	66	86	104	120					
8	Aug-88	WE	5+	478	131	48	59	89	110	123					
12	Aug-88	WE	5+	485	122	36	51	78	a9	110					
22	Aug-88	WE	5+	488	116	36	52	78	91	104					
28	Aug-88	WE	5+	400	86	21	44	60	71	a1					
56	Aug-88	WE	5+	445	126	37	56	75	90	115					
57	Aug-88	WE	5+	450	120	38	57	77	91	110					
60	Aug-88	WE	5+	480	112	36	56	77	88	98					
14	Oct-88	WE	5+	460	99	34	49	61	77	86					
28	act-88	WE	5+	456	90	33	47	66	76	83					
29	Oct-88	WE	5+	485	109	36	51	70	81	93					
33	Oct-88	WE	5+	455	112	39	51	68	81	99					
39	Oct-88	WE	5+	476	110	36	61	78	90	102					
24026	Oct-88	WE	5+	460	110	36	53	71	88	99					
24027	Oct-88	WE	5+	552	86	30	41	62	71	80					
5	Aug-88	WE	6+	555	145	45	56	77	96	110	125				

Table D12. continued...

Fish Number	Date	Species	Age	Capt. length (mm)	Scale length (mm)	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
16	Oct-88	WE	6+	500	115	36	51	70	81	98	107				
17	Oct-88	WE	6+	520	124	36	51	70	85	99	110				
40	Aug-88	WE	9+	742	144	33	51	68	77	90	108	111	127	138	
38	Oct-88	WE	10+	761	182	40	59	81	100	117	124	137	141	156	163

Table D13. Age, growth and condition data for Walleye collected from Lake Roosevelt, 1989

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
8	May-89	WE	o+	44	181	0.74
15	May-89	WE	o+	50	191	0.72
18	May-89	WE	o+	44	176	0.78
1	Aug-89	WE	o+	9	104	0.80
4	Aug-89	WE	o+	7	98	0.74
5	Aug-89	WE	o+	5	91	0.66
6	Aug-89	WE	o+	4	100	0.40
7	Aug-89	WE	o+	15	125	0.77
7	Aug-89	WE	o+	6	95	0.70
8	Aug-89	WE	o+	5	90	0.69
9	Aug-89	WE	o+	9	110	0.68
9	Aug-89	WE	o+	11	116	0.70
9	Aug-89	WE	o+	109	231	0.88
10	Aug-89	WE	o+	8	100	0.80
10	Aug-89	WE	o+	11	116	0.70
11	Aug-89	WE	o+	11	112	0.78
11	Aug-89	WE	0+	10	116	0.64
12	Aug-89	WE	0+	5	85	0.81
12	Aug-89	WE	0+	9	114	0.61
13	Aug-89	WE	o+	11	108	0.87
13	Aug-89	WE	o+	8	109	0.62
13	Aug-89	WE	o+	7	78	1.48
14	Aug-89	WE	o+	10	102	0.94
14	Aug-89	WE	o+	4	91	0.53
15	Aug-89	WE	o+	6	91	0.80
16	Aug-89	WE	o+	5	91	0.66
17	Aug-89	WE	o+	5	98	0.53
18	Aug-89	WE	o+	2	65	0.73
19	Aug-89	WE	o+	11	107	0.90
20	Aug-89	WE	o+	6	96	0.68
21	Aug-89	WE	o+	16	120	0.93
21	Aug-89	WE	o+	9	109	0.89
22	Aug-89	WE	o+	18	96	1.81
23	Aug-89	WE	o+	10	105	0.86
24	Aug-89	WE	0+	8	98	0.85
25	Aug-89	WE	o+	8	103	0.73
26	Aug-89	WE	o+	7	96	0.79
27	Aug-89	WE	o+	12	137	0.47
28	Aug-89	WE	o+	40	171	0.80
29	Aug-89	WE	0+	25	152	0.71
RLS 1	Aug-89	WE	o+	23	148	0.71
RIS 2	Aug-89	WE	0+	15	130	0.68
RLS 3	Aug-89	WE	o+	28	156	0.74
1	Ott-89	WE	o+	18	132	0.78
4	act-89	WE	o+	4	88	0.59
5	Ott-89	WE	o+	34	170	0.69
9	act-89	WE	o+	74	195	1.00
13	Ott-89	WE	o+	66	198	0.85
14	Oct-89	WE	o+	20	140	0.73
14	Oct-89	WE	o+	73	195	0.98
15	Oct-89	WE	o+	63	200	0.79
16	Oct-89	WE	o+	50	199	0.63
17	Oct-89	WE	o+	51	193	0.71
18	Oct-89	WE	o+	35	173	0.68
19	act-89	WE	o+	46	192	0.65
20	act-89	WE	o+	23	145	0.75
21	Ott-89	WE	o+	51	183	0.83
22	Oct-89	WE	o+	24	141	0.86
23	Ott-89	WE	o+	87	220	0.82
24	Oct-89	WE	o+	56	190	0.82

Table D13.

Continued...

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
29	Ocl-89	WE	0+	41	177	0.74
32	Ott-89	WE	0+	72	208	0.80
35	Ott-89	WE	0+	74	190	1.08
37	Ott-89	WE	0+	50	184	0.80
40	act-89	WE	0+	31	157	0.80
47	Ott-89	WE	0+	122	190	1.78
51	Oct-89	WE	0+	65	196	0.86
57	Oct-89	WE	0+	78	206	0.89
58	Ott-89	WE	0+	73	210	0.79
7	May-89	WE	1+	62	200	0.78
8	May-89	WE	1+	108	235	0.83
10	May-89	WE	1+	56	200	0.70
11	May-89	WE	1+	61	205	0.71
13	May-89	WE	1+	70	203	0.84
13	May-89	WE	1+	38	177	0.69
14	May-89	WE	1+	62	198	0.80
15	May-89	WE	1+	58	193	0.78
15	May-89	WE	1+	48	175	0.86
16	May-89	WE	1+	59	104	5.25
16	May-89	WE	1+	62	204	0.73
17	May-89	WE	1+	53	195	0.71
24	May-89	WE	1+	64	205	0.74
25	May-89	WE	1+	22	147	0.69
30	May-89	WE	1+	77	205	0.89
33	May-89	WE	1+	58	205	0.67
34	May-89	WE	1+	48	179	0.84
8	Aug-a9	WE	1+	108	235	0.83
9	Aug-89	WE	1+	18	123	0.97
10	Aug-89	WE	1+	68	202	0.83
11	Aug-89	WE	1+	136	254	0.83
11	Aug-89	WE	1+	110	235	0.85
12	Aug-89	WE	1+	155	227	0.13
12	Aug-89	WE	1+	110	243	0.77
12	Aug-a9	WE	1+	80	216	0.79
13	Aug-89	WE	1+	136	247	0.90
13	Aug-89	WE	1+	121	248	0.79
14	Aug-89	WE	1+	134	244	0.92
14	Aug-89	WE	1+	119	241	0.85
16	Aug-89	WE	1+	149	258	0.87
17	Aug-89	WE	1+	118	247	0.78
18	Aug-89	WE	1+	126	247	0.84
18	Aug-89	WE	1+	87	238	0.68
19	Aug-89	WE	1+	55	187	0.84
23	Aug-89	WE	1+	130	248	0.85
25	Aug-89	WE	1+	94	226	0.81
26	Aug-89	WE	1+	42	175	0.78
28	Aug-89	WE	1+	118	243	0.82
28	Aug-89	WE	1+	18	124	0.94
29	Aug-89	WE	1+	133	252	0.83
30	Aug-89	WE	1+	158	275	0.76
31	Aug-89	WE	1+	126	245	0.86
41	Aug-89	WE	1+	132	256	0.79
3	Ott-89	WE	1+	209	287	0.88
4	Ott-89	WE	1+	275	322	0.82
8	Oct-89	WE	1+	234	310	0.79
8	Oct-89	WE	1+	285	336	0.75
10	Ott-89	WE	1+	249	365	0.51
10	Oct-89	WE	1+	466	381	0.84
11	Ott-89	WE	1+	288	313	0.94
11	Ott-89	WE	1+	230	295	0.90
12	Ott-89	WE	1+	333	323	0.99
12	Ott-89	WE	1+	280	322	0.84
12	act-89	WE	1+	186	285	0.80
13	Ott-89	WE	1+	186	294	0.73
15	Oct-89	WE	1+	218	329	0.61

Table 013.

Continued...

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
16	Ott-89	WE	1+	189	300	0.70
17	Oct-89	WE	1+	295	318	0.92
18	Ott-89	WE	1+	195	291	0.79
19	Oct-89	WE	1+	227	307	0.78
20	Ott-89	WE	1+	260	311	0.86
22	Ott-89	WE	1+	250	315	0.80
22	Oct-89	WE	1+	240	302	0.87
24	Oct-89	WE	1+	275	322	0.82
25	Oct-89	WE	1+	261	315	0.84
26	Ott-89	WE	1+	270	320	0.82
31	Ott-89	WE	1+	253	321	0.76
38	Ott-89	WE	1+	235	312	0.77
45	Ott-89	WE	1+	398	290	1.83
46	Ott-89	WE	1+	432	285	1.87
Y22205	Oct-89	WER	1+	156	257	0.92
Y22706	Ott-89	WER	1+	178	293	0.71
3	May-89	WE	2+	364	360	0.78
4	May-89	WE	2+	355	348	0.86
4	May-89	WE	2+	332	350	0.77
5	May-89	WE	2+	105	191	1.51
5	May-89	WE	2+	84	220	0.79
6	May-89	WE	2+	91	236	0.69
7	May-89	WE	2+	55	191	0.79
7	May-89	WE	2+	90	224	0.80
8	May-89	WE	2+	55	195	0.74
9	May-89	WE	2+	71	215	0.71
11	May-89	WE	2+	88	230	0.72
16	May-89	WE	2+	211	295	0.82
17	May-89	WE	2+	80	221	0.74
17	May-89	WE	2+	94	232	0.75
18	May-89	WE	2+	67	212	0.70
18	May-89	WE	2+	88	230	0.72
18	May-89	WE	2+	112	240	0.81
19	May-89	WE	2+	70	210	0.76
19	May-89	WE	2+	28	150	0.83
21	May-89	WE	2+	88	230	0.72
22	May-89	WE	2+	66	196	0.88
23	May-89	WE	2+	82	212	0.86
25	May-89	WE	2+	73	206	0.84
26	May-89	WE	2+	88	209	0.74
32	May-89	WE	2+	382	473	0.36
33	May-89	WE	2+	84	221	0.78
34	May-89	WE	2+	110	248	0.74
35	May-89	WE	2+	120	245	0.82
36	May-89	WE	2+	69	203	0.82
37	May-89	WE	2+	69	210	0.75
37	May-89	WE	2+	111	232	0.89
38	May-89	WE	2+	75	218	0.74
40	May-89	WE	2+	69	211	0.73
41	May-89	WE	2+	85	220	0.80
42	May-89	WE	2+	56	198	0.72
43	May-89	WE	2+	73	211	0.78
44	May-89	WE	2+	44	180	0.75
46	May-89	WE	2+	56	190	0.82
47	May-89	WE	2+	83	213	0.86
48	May-89	WE	2+	46	185	0.73
6	Aug-89	WE	2+	79	205	0.92
7	Aug-89	WE	2+	186	285	0.80
7	Aug-89	WE	2+	288	326	0.83
9	Aug-89	WE	2+	340	343	0.84
12	Aug-89	WE	2+	248	320	0.76
13	Aug-89	WE	2+	160	276	0.76
15	Aug-89	WE	2+	456	381	0.82
15	Aug-89	WE	2+	367	360	0.79
15	Aug-89	WE	2+	160	283	0.71

Table 013.

Continued...

Fish No..	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
15	Aug-89	WE	2+	335	344	0.82
16	Aug-89	WE	2+	409	376	0.77
16	Aug-89	WE	2+	162	289	0.67
18	Aug-89	WE	2+	139	260	0.79
18	Aug-89	WE	2+	240	295	0.93
19	Aug-89	WE	2+	170	281	0.77
19	Aug-89	WE	2+	335	355	0.75
20	Aug-89	WE	2+	130	252	0.81
20	Aug-89	WE	2+	446	339	1.14
21	Aug-89	WE	2+	143	247	0.95
22	Aug-89	WE	2+	126	253	0.78
22	Aug-89	WE	2+	110	239	0.81
23	Aug-89	WE	2+	370	350	0.86
24	Aug-89	WE	2+	157	260	0.89
24	Aug-89	WE	2+	176	270	0.89
24	Aug-89	WE	2+	337	331	0.93
25	Aug-89	WE	2+	136	261	0.76
25	Aug-89	WE	2+	393	336	1.04
26	Aug-89	WE	2+	153	266	0.81
27	Aug-89	WE	2+	86	216	0.85
28	Aug-89	WE	2+	278	324	0.82
29	Aug-89	WE	2+	249	321	0.75
29	Aug-89	WE	2+	159	265	0.85
30	Aug-89	WE	2+	283	318	0.88
31	Aug-89	WE	2+	113	241	0.81
31	Aug-89	WE	2+	185	276	0.88
34	Aug-89	WE	2+	501	380	0.91
34	Aug-89	WE	2+	307	346	0.74
35	Aug-89	WE	2+	498	375	0.94
36	Aug-89	WE	2+	205	296	0.79
37	Aug-89	WE	2+	153	260	0.87
37	Aug-89	WE	2+	231	306	0.81
38	Aug-89	WE	2+	278	328	0.79
40	Aug-89	WE	2+	383	360	0.82
40	Aug-89	WE	2+	301	352	0.89
60	Aug-89	WE	2+	307	335	0.82
64	Aug-89	WE	2+	343	340	0.87
89	Aug-89	WE	2+	247	312	0.81
99	Aug-89	WE	2+	220	300	0.81
100	Aug-89	WE	2+	299	226	2.59
101	Aug-89	WE	2+	138	256	0.82
119	Aug-89	WE	2+	217	292	0.87
15014	Aug-89	WE	2+	395	366	0.81
15022	Aug-89	WE	2+	180	278	0.84
15023	Aug-89	WE	2+	188	279	0.87
15024	Aug-89	WE	2+	190	276	0.90
15025	Aug-89	WE	2+	180	274	0.88
2	Ott-89	WE	2+	519	398	0.84
3	Ott-89	WE	2+	579	400	0.90
4	Ott-89	WE	2+	365	356	0.81
6	Ott-89	WE	2+	578	418	0.80
7	Oct-89	WE	2+	308	332	0.84
9	Ott-89	WE	2+	393	361	0.91
9	Ott-89	WE	2+	399	345	0.97
10	Ott-89	WE	2+	405	368	0.81
11	Ott-89	WE	2+	425	363	0.89
11	Ott-89	WE	2+	241	304	0.86
13	Ott-89	WE	2+	428	368	0.87
13	Oct-89	WE	2+	349	341	0.88
16	Ott-89	WE	2+	448	372	0.87
17	Ott-89	WE	2+	165	185	2.81
23	Ott-89	WE	2+	390	355	0.87
23	Ott-89	WE	2+	216	218	2.08
24	Ott-89	WE	2+	464	382	0.83
48	Ott-89	WE	2+	590	407	0.88

Table 013.

Continued...

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
50	Oct-89	WE	2+	523	380	0.95
52	Oct-89	WE	2+	402	607	0.18
54	Oct-89	WE	2+	594	363	1.24
55	Oct-89	WE	2+	663	391	1.11
1	May-89	WE	3+	321	355	0.72
2	May-89	WE	3+	444	395	0.72
3	May-89	WE	3+	439	366	0.90
3	May-89	WE	3+	362	352	0.83
4	May-89	WE	3+	346	315	1.11
4	May-89	WE	3+	299	345	0.73
4	May-89	WE	3+	425	340	1.08
5	May-89	WE	3+	151	286	0.65
5	May-89	WE	3+	230	314	0.74
6	May-89	WE	3+	576	364	1.19
6	May-89	WE	3+	390	332	1.07
7	May-89	WE	3+	280	326	0.81
9	May-89	WE	3+	130	246	0.87
11	May-89	WE	3+	545	398	0.86
11	May-89	WE	3+	771	420	1.04
11	May-89	WE	3+	415	394	0.68
12	May-88	WE	3+	925	425	1.20
12	May-89	WE	3+	891	450	0.98
12	May-89	WE	3+	613	425	0.80
13	May-89	WE	3+	527	392	0.87
14	May-89	WE	3+	401	326	1.16
14	May-89	WE	3+	105	245	0.71
14	May-89	WE	3+	479	396	0.77
15	May-89	WE	3+	224	306	0.78
16	May-89	WE	3+	334	358	0.73
18	May-89	WE	3+	58	196	0.77
19	May-89	WE	3+	168	256	1.00
20	May-89	WE	3+	89	230	0.73
21	May-89	WE	3+	633	423	0.84
22	May-89	WE	3+	82	226	0.71
24	May-89	WE	3+	580	422	0.77
25	May-89	WE	3+	953	457	1.00
25	May-89	WE	3+	403	365	0.83
25	May-89	WE	3+	605	416	0.84
26	May-89	WE	3+	365	364	0.76
30	May-89	WE	3+	582	405	0.88
31	May-89	WE	3+	795	450	0.87
32	May-89	WE	3+	529	395	0.86
35	May-89	WE	3+	446	376	0.84
35	May-89	WE	3+	392	390	0.6
38	May-89	WE	3+	631	43	0.79
39	May-89	WE	3+	115	241	0.82
45	May-89	WE	3+	365	351	0.84
1	Aug-89	WE	3+	689	431	0.86
1	Aug-89	WE	3+	393	377	0.73
1	Aug-89	WE	3+	405	390	0.68
2	Aug-89	WE	3+	761	444	0.87
2	Aug-89	WE	3+	456	380	0.83
2	Aug-89	WE	3+	425	285	1.84
3	Aug-89	WE	3+	728	435	0.88
3	Aug-89	WE	3+	522	420	0.70
4	Aug-89	WE	3+	662	425	0.86
5	Aug-89	WE	3+	690	528	0.47
5	Aug-89	WE	3+	615	420	0.83
6	Aug-89	WE	3+	733	448	0.82
6	Aug-89	WE	3+	530	403	0.81
7	Aug-89	WE	3+	823	478	0.75
7	Aug-89	WE	3+	400	368	0.80
8	Aug-89	WE	3+	743	456	0.78
8	Aug-89	WE	3+	595	407	0.88
9	Aug-89	WE	3+	680	430	0.86

Table 013.

Continued...

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
10	Aug-69	WE	3+	891	450	0.98
11	Aug-89	WE	3+	415	394	0.68
14	Aug-89	WE	3+	430	376	0.81
15	Aug-69	WE	3+	455	390	0.77
16	Aug-89	WE	3+	518	386	0.90
17	Aug-89	WE	3+	692	428	0.88
17	Aug-89	WE	3+	785	455	0.83
19	Aug-89	WE	3+	90	221	0.83
20	Aug-89	WE	3+	750	457	0.79
20	Aug-89	WE	3+	400	358	0.87
21	Aug-89	WE	3+	470	384	0.83
21	Aug-89	WE	3+	440	352	1.01
22	Aug-89	WE	3+	819	470	0.79
22	Aug-89	WE	3+	839	457	0.88
22	Aug-89	WE	3+	665	418	0.91
22	Aug-89	WE	3+	288	315	0.92
23	Aug-89	WE	3+	938	460	0.98
24	Aug-89	WE	3+	624	440	0.73
25	Aug-89	WE	3+	368	397	0.59
27	Aug-89	WE	3+	399	372	0.78
32	Aug-89	WE	3+	515	405	0.78
32	Aug-89	WE	3+	755	430	0.95
33	Aug-89	WE	3+	598	418	0.82
33	Aug-89	WE	3+	464	360	0.99
35	Aug-89	WE	3+	669	418	0.92
36	Aug-89	WE	3+	468	396	0.76
43	Aug-89	WE	3+	510	404	0.77
98	Aug-89	WE	3+	748	433	0.92
15006	Aug-69	WE	3+	345	346	0.83
15012	Aug-89	WE	3+	553	405	0.83
15016	Aug-89	WE	3+	468	371	0.92
15018	Aug-89	WE	3+	536	415	0.75
15019	Aug-89	WE	3+	552	383	0.98
15020	Aug-89	WE	3+	409	353	0.93
15021	Aug-89	WE	3+	366	352	0.84
15026	Aug-89	WE	3+	612	400	0.96
15028	Aug-89	WE	3+	344	341	0.87
15600	Aug-89	WE	3+	461	394	0.75
15010	Aug-89	WE	3+	690	424	0.91
1	Ott-89	WE	3+	630	420	0.85
1	Ocl-89	WE	3+	759	454	0.81
2	Ocl-89	WE	3+	1288	420	1.71
2	Ocl-89	WE	3+	669	435	0.81
3	Ocl-89	WE	3+	727	437	0.87
5	Oct-89	WE	3+	723	442	0.84
5	Ocl-89	WE	3+	475	382	0.85
6	Oct-89	WE	3+	740	445	0.84
7	Ocl-89	WE	3+	794	445	0.90
6	Ocl-89	WE	3+	730	420	0.99
9	Ott-89	WE	3+	1028	465	1.02
9	Ocl-89	WE	3+	603	406	0.90
10	Ocl-89	WE	3+	525	395	0.85
11	Oct-89	WE	3+	926	468	0.90
12	Ott-89	WE	3+	630	417	0.87
12	Ott-89	WE	3+	564	395	0.92
14	Ocl-89	WE	3+	688	425	0.90
15	Ott-89	WE	3+	767	447	0.86
17	Oct-89	WE	3+	525	397	0.84
16	Ott-89	WE	3+	601	398	0.95
20	Ocl-89	WE	3+	455	386	0.79
24	Ott-89	WE	3+	500	398	0.79
25	Ott-89	WE	3+	516	387	0.89
31	Ocl-89	WE	3+	530	385	0.93
44	Ott-89	WE	3+	1612	446	1.82
49	Ott-89	WE	3+	599	423	0.79

Table D13.

Continued...

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
51	Oct-89	WE	3+	765	432	0.95
015012	Oct-89	WE	3+	601	425	0.78
1	May-89	WE	4+	651	431	0.81
1	May-89	WE	4+	418	371	0.82
1	May-89	WE	4+	405	390	0.68
2	May-89	WE	4+	486	400	0.76
2	May-89	WE	4+	960	466	0.95
3	May-89	WE	4+	393	370	0.78
3	May-89	WE	4+	576	410	0.84
3	May-89	WE	4+	324	341	0.82
3	May-89	WE	4+	630	441	0.73
4	May-89	WE	4+	480	368	0.96
4	May-89	WE	4+	370	552	0.22
6	May-89	WE	4+	509	404	0.77
7	May-89	WE	4+	406	365	0.83
7	May-89	WE	4+	789	445	0.90
8	May-89	WE	4+	55	393	0.09
9	May-89	WE	4+	588	413	0.83
10	May-89	WE	4+	324	353	0.74
11	May-89	WE	4+	803	465	0.80
12	May-89	WE	4+	730	434	0.89
13	May-89	WE	4+	408	375	0.77
13	May-89	WE	4+	1279	490	1.09
14	May-89	WE	4+	649	424	0.85
15	May-89	WE	4+	328	342	0.82
15	May-89	WE	4+	488	396	0.79
22	May-89	WE	4+	743	430	0.93
23	May-89	WE	4+	726	424	0.95
24	May-89	WE	4+	528	396	0.85
26	May-89	WE	4+	469	372	0.91
26	May-89	WE	4+	693	446	0.78
27	May-89	WE	4+	441	382	0.79
28	May-89	WE	4+	419	380	0.78
29	May-89	WE	4+	467	375	0.89
29	May-89	WE	4+	424	376	0.80
29	May-89	WE	4+	688	431	0.86
31	May-89	WE	4+	583	405	0.88
36	May-89	WE	4+	401	395	0.65
60	May-89	WE	4+	580	420	0.78
2	Aug-89	WE	4+	732	410	1.06
3	Aug-89	WE	4+	708	432	0.88
4	Aug-89	WE	4+	1130	346	2.73
5	Aug-89	WE	4+	1045	513	0.77
7	Aug-89	WE	4+	540	403	0.83
8	Aug-89	WE	4+	928	480	0.84
8	Aug-89	WE	4+	986	495	0.81
11	Aug-89	WE	4+	656	420	0.89
13	Aug-89	WE	4+	603	405	0.91
14	Aug-89	WE	4+	982	491	0.83
15	Aug-89	WE	4+	820	448	0.91
16	Aug-89	WE	4+	770	450	0.84
17	Aug-89	WE	4+	431	390	0.73
18	Aug-89	WE	4+	728	455	0.77
19	Aug-89	WE	4+	776	486	0.68
20	Aug-89	WE	4+	1035	484	0.91
21	Aug-89	WE	4+	699	430	0.88
21	Aug-89	WE	4+	639	446	0.72
23	Aug-89	WE	4+	615	447	0.69
23	Aug-89	WE	4+	620	431	0.77
31	Aug-89	WE	4+	1034	466	1.02
39	Aug-89	WE	4+	676	422	0.90
51	Aug-89	WE	4+	768	450	0.84
61	Aug-89	WE	4+	709	430	0.89
90	Aug-89	WE	4+	516	405	0.78
91	Aug-89	WE	4+	647	430	0.81

Table D13.

Continued...

Fish No.	Date	Species	Age	Weight (g)	Capture length (mm)	Condition Factor
97	Aug-89	WE	4+	791	441	0.92
107	Aug-89	WE	4+	600	426	0.78
111	Aug-89	WE	4+	708	430	0.89
114	Aug-89	WE	4+	670	432	0.83
15005	Aug-89	WE	4+	638	428	0.81
15011	Aug-69	WE	4+	798	434	0.98
15013	Aug-89	WE	4+	750	435	0.91
15599	Aug-89	WE	4+	729	443	0.84
1	Ott-89	WE	4+	959	485	0.84
1	Ocl-89	WE	4+	910	453	0.98
12	Ocl-89	WE	4+	737	442	0.85
13	Ott-89	WE	4+	789	435	0.96
14	Ocl-89	WE	4+	694	410	1.01
19	Ocl-89	WE	4+	1085	490	0.92
19	Ocl-89	WE	4+	588	410	0.85
21	act-89	WE	4+	1050	482	0.94
21	Ocl-89	WE	4+	1313	540	0.83
23	Ocl-89	WE	4+	740	442	0.86
27	Ocl-89	WE	4+	780	448	0.87
44	Ocl-89	WE	4+	714	436	0.86
53	Ocl-89	WE	4+	1125	479	1.02
56	Ocl-89	WE	4+	1168	508	0.89
.	Ocl-89	WE	4+	1680	540	1.07
1	May-89	WE	5+	850	470	0.82
1	May-89	WE	5+	1685	510	1.27
3	May-89	WE	5+	1650	548	1.00
4	May-89	WE	5+	1215	510	0.92
5	May-89	WE	5+	488	395	0.79
5	May-89	WE	5+	588	411	0.85
6	May-89	WE	5+	269	330	0.75
7	May-89	WE	5+	1130	500	0.90
10	May-89	WE	5+	735	440	0.86
11	May-89	WE	5+	1061	482	0.95
12	May-89	WE	5+	650	420	0.88
23	May-89	WE	5+	1818	570	0.98
24	May-89	WE	5+	1833	560	1.04
24	May-89	WE	5+	1398	530	0.94
25	May-89	WE	5+	950	432	1.18
26	May-89	WE	5+	1049	500	0.84
28	May-89	WE	5+	1052	490	0.89
29	May-89	WE	5+	575	413	0.82
87	Aug-89	WE	5+	829	455	0.88
12216Y	Aug-89	WE	5+	2038	670	0.68
7	Oct-89	WE	5+	621	422	0.83
22	May-89	WE	6+	2081	605	0.94
20	May-89	WE	7+	2523	660	0.88
68	Aug-89	WE	7+	1821	612	0.79

Table D14. Scale annulus measurements of Walleye for age determination and backcalculation analysis from Lake Roosevelt, 1989.

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
8	May-89	WE	0+	181	35							
15	May-89	WE	0+	191	46							
18	May-89	WE	0+	178	36							
1	Aug-89	WE	0+	104	15							
4	Aug-89	WE	0+	98	22							
5	Aug-89	WE	0+	91	18							
6	Aug-89	WE	0+	100	13							
7	Aug-89	WE	0+	125	26							
7	Aug-89	WE	0+	95	21							
8	Aug-89	WE	0+	90	17							
9	Aug-89	WE	0+	110	20							
9	Aug-89	WE	0+	116	23							
10	Aug-89	WE	0+	100	21							
10	Aug-89	WE	0+	116	23							
11	Aug-89	WE	0+	112	25							
11	Aug-89	WE	0+	116	20							
12	Aug-89	WE	0+	85	18							
12	Aug-89	WE	0+	114	19							
13	Aug-89	WE	0+	108	24							
13	Aug-89	WE	0+	109	19							
13	Aug-89	WE	0+	78	18							
14	Aug-89	WE	0+	91	21							
15	Aug-89	WE	0+	91	21							
16	Aug-89	WE	0+	91	18							
17	Aug-89	WE	0+	98	18							
18	Aug-89	WE	0+	65	15							
20	Aug-89	WE	0+	96	17							
21	Aug-89	WE	0+	120	26							
21	Aug-89	WE	0+	109	20							
22	Aug-89	WE	0+	96	22							
23	Aug-89	WE	0+	105	22							
24	Aug-89	WE	0+	98	24							
25	Aug-89	WE	0+	103	23							
26	Aug-89	WE	0+	96	22							

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
27	Aug-89	WE	0+	137	27							
28	Aug-89	WE	0+	171	27							
29	Aug-89	WE	0+	152	28							
RLS1	Aug-89	WE	0+	148	32							
RLS2	Aug-89	WE	0+	130	23							
RLS3	Aug-89	WE	0+	156	35							
1	Ott-89	WE	0+	132	19							
4	act-89	WE	0+	88	9							
5	Oct-89	WE	0+	170	26							
9	Ott-89	WE	0+	195	36							
13	Ott-89	WE	0+	198	42							
14	act-89	WE	0+	140	26							
14	act-89	WE	0+	195	26							
15	act-89	WE	0+	200	42							
16	Ott-89	WE	0+	199	37							
17	Ott-89	WE	0+	193	39							
18	Ott-89	WE	0+	173	35							
19	Ott-89	WE	0+	192	36							
20	Ott-89	WE	0+	145	25							
21	act-89	WE	0+	183	28							
22	act-89	WE	0+	141	30							
23	act-89	WE	0+	220	35							
24	act-89	WE	0+	190	40							
29	Ott-89	WE	0+	177	34							
32	act-89	WE	0+	208	47							
35	Oct-89	WE	0+	190	36							
37	act-89	WE	0+	184	26							
40	act-89	WE	0+	157	38							
47	Ott-89	WE	0+	190	36							
51	Ott-89	WE	0+	196	33							
57	act-89	WE	0+	206	38							
58	Ott-89	WE	0+	210	42							
25131	Ott-89	WE	0+	212	37							
.	act-89	WE	0+	200	31							
7	May-89	WE	1+	200	50	44						
8	May-89	WE	1+	235	53	46						
10	May-89	WE	1+	200	27	20						

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
11	May-89	WE	1+	205	34	27						
13	May-89	WE	1+	203	85	32						
13	May-89	WE	1+	177	26	22						
14	May-89	WE	1+	198	40	34						
15	May-89	WE	1+	193	43	35						
15	May-89	WE	1 t	175	31	23						
16	May-89	WE	1+	104	45	40						
16	May-89	WE	1+	204	49	44						
17	May-89	WE	1+	195	36	32						
24	May-89	WE	1+	205	52	43						
25	May-89	WE	1+	147	43	35						
30	May-89	WE	1+	205	43	32						
33	May-89	WE	1+	205	40	29						
34	May-89	WE	1+	179	32	25						
8	Aug-89	WE	1+	235	55	42						
9	Aug-89	WE	1+	123	30	17						
10	Aug-89	YE	1+	202	30	24						
11	Aug-89	WE	1+	254	53	36						
11	Aug-89	WE	1+	235	52	37						
12	Aug-89	WE	1+	227	46	26						
12	Aug-89	WE	1+	243	52	38						
12	Aug-89	WE	1+	216	33	25						
13	Aug-89	WE	1+	247	41	26						
13	Aug-89	WE	1+	248	56	36						
14	Aug-89	WE	1+	244	32	21						
14	Aug-89	WE	1+	241	64	42						
16	Aug-89	WE	1+	258	42	28						
17	Aug-89	WE	1+	247	58	41						
18	Aug-89	WE	1+	247	56	35						
18	Aug-89	WE	1+	236	52	40						
19	Aug-89	WE	1+	187	32	24						
23	Aug-89	WE	1+	248	46	32						
25	Aug-89	WE	1+	226	42	24						
26	Aug-89	WE	1+	175	28	16						
28	Aug-89	WE	1+	243	63	42						
28	Aug-89	WE	1+	124	22	16						
29	Aug-89	WE	1+	252	21	33						

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
30	Aug-89	WE	1+	275	64	43						
31	Aug-89	WE	1+	245	27	37						
41	Aug-89	WE	1+	256	42	26						
3	Ott-89	WE	1+	287	37	33						
4	Ott-89	WE	1+	322	50	29						
8	Ott-89	WE	1+	310	84	41						
8	Ocl-89	WE	1+	336	59	36						
10	Ott-89	WE	1+	365	72	38						
10	Ott-89	WE	1+	381	80	54						
11	Ott-89	WE	1+	313	68	43						
11	Ott-89	ME	1+	295	72	44						
12	Ott-89	WE	1+	323	74	37						
12	Ott-89	WE	1+	322	73	44						
12	Ott-89	WE	1+	285	56	41						
13	Ott-89	WE	1+	294	62	34						
15	Ott-89	WE	1+	329	72	46						
16	Ott-89	WE	1+	300	57	27						
17	Ott-89	WE	1+	318	53	29						
18	Ott-89	WE	1+	291	78	50						
19	Ott-89	WE	1+	307	50	28						
20	Ott-89	WE	1+	311	62	32						
22	Ott-89	WE	1+	315	62	68						
22	Ott-89	WE	1+	302	62	28						
24	Ott-89	WE	1+	322	67	41						
25	Ott-89	WE	1+	315	64	36						
26	Ott-89	WE	1+	320	73	44						
31	Ott-89	WE	1+	321	66	35						
38	Ott-89	WE	1+	312	76	35						
45	Ott-89	WE	1+	290	66	45						
46	Ott-89	WE	1+	285	63	31						
25112	Ocl-89	WE	1+	306	52	23						
25113	Ott-89	WE	1+	297	48	32						
25926	Ott-89	WE	1+	384	70	40						
25927	Ott-89	WE	1+	372	75	42						
25928	Ott-89	WE	1+	360	58	36						
22205	Ott-89	WER	1+	257	42	31						
22706	Ott-89	WER	1+	293	42	20						

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
3	May-89	WE	2+	360	65	30	50					
4	May-89	WE	2+	346	79	24	43					
4	May-89	WE	2+	350	68	29	51					
5	May-99	WE	2+	191	47	27	34					
5	May-89	WE	2+	220	37	15	31					
6	May-89	WE	2+	236	58	27	47					
7	May-89	WE	2+	191	35	17	32					
7	May-89	WE	2+	224	46	23	40					
8	May-89	WE	2+	195	43	24	41					
9	May-89	WE	2+	215	43	24	38					
11	May-89	WE	2+	230	83	57	71					
16	May-89	WE	2+	295	57	23	48					
17	May-89	WE	2+	221	34	19	27					
17	May-89	WE	2+	232	86	50	71					
18	May-89	WE	2+	212	48	21	41					
18	May-89	WE	2+	230	72	53	66					
18	May-89	WE	2+	240	42	20	34					
19	May-89	WE	2+	210	42	18	37					
19	May-89	WE	2+	150	38	18	35					
21	May-89	WE	2+	230	38	19	33					
22	May-89	WE	2+	196	41	24	38					
23	May-89	WE	2+	212	29	28	28					
25	May-89	WE	2+	206	66	43	57					
26	May-89	WE	2+	209	75	49	65					
32	May-89	WE	2+	473	60	31	49					
33	May-89	WE	2+	221	59	38	52					
34	May-89	WE	2+	246	63	36	58					
35	May-89	WE	2+	245	56	30	48					
36	May-89	WE	2 t	203	40	21	38					
37	May-89	WE	2+	210	51	23	42					
37	May-89	WE	2+	232	34	18	32					
38	May-89	WE	2+	216	40	18	33					
40	May-89	WE	2+	211	44	26	42					
41	May-89	WE	2+	220	42	22	39					
42	May-89	WE	2+	198	25	14	23					
43	May-89	WE	2+	211	37	16	30					
44	May-89	WE	2+	180	41	20	36					

Table 014. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
46	May-89	WE	2+	190	33	17	29					
47	May-89	WE	2+	213	39	21	31					
48	May-89	WE	2+	185	29	15	27					
6	Aug-89	WE	2+	205	44	18	37					
7	Aug-69	WE	2+	285	57	28	44					
7	Aug-89	WE	2+	326	76	38	71					
9	Aug-89	WE	2+	343	71	25	60					
12	Aug-89	WE	2+	320	51	20	46					
13	Aug-89	WE	2+	276	41	24	35					
15	Aug-89	WE	2+	381	97	39	72					
15	Aug-89	WE	2+	360	72	34	60					
15	Aug-69	WE	2+	283	51	20	38					
15	Aug-89	WE	2+	344	56	24	36					
16	Aug-89	WE	2+	376	86	30	55					
16	Aug-89	WE	2+	289	44	12	24					
16	Aug-89	WE	2+	260	44	23	34					
18	Aug-89	WE	2+	295	80	31	48					
19	Aug-69	WE	2+	281	62	27	48					
19	Aug-89	WE	2+	355	62	28	54					
20	Aug-69	WE	2+	252	44	25	36					
20	Aug-89	WE	2+	339	68	37	52					
21	Aug-89	WE	2+	247	57	31	46					
22	Aug-89	WE	2+	253	45	29	38					
22	Aug-89	WE	2+	239	41	19	34					
23	Aug-89	WE	2+	350	62	31	54					
24	Aug-89	WE	2+	260	53	21	40					
24	Aug-89	WE	2+	270	42	16	30					
24	Aug-69	WE	2+	331	66	40	56					
25	Aug-89	WE	2+	261	54	34	45					
25	Aug-69	WE	2 t	336	68	41	54					
26	Aug-89	WE	2+	266	45	16	29					
27	Aug-89	WE	2+	216	36	23	30					
28	Aug-89	WE	2+	324	50	21	42					
29	Aug-89	WE	2+	321	86	32	74					
29	Aug-69	WE	2+	265	42	24	33					
30	Aug-69	WE	2+	318	66	39	58					
31	Aug-89	WE	2+	241	54	34	49					

Table D14.

continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
31	Aug-89	WE	2+	276	52	68	46					
34	Aug-89	WE	2+	380	70	24	54					
34	Aug-89	WE	2+	346	74	32	56					
35	Aug-89	WE	2+	375	84	36	64					
36	Aug-89	WE	2+	296	61	29	47					
37	Aug-89	WE	2+	260	51	22	39					
37	Aug-89	WE	2+	306	64	41	56					
38	Aug-89	WE	2+	328	50	17	40					
40	Aug-89	WE	2+	360	65	24	51					
40	Aug-89	WE	2+	352	65	30	52					
60	Aug-89	WE	2+	335	74	42	51					
64	Aug-89	WE	2+	340	78	47	66					
89	Aug-89	WE	2+	312	89	35	56					
99	Aug-89	WE	2+	300	66	39	52					
100	Aug-89	WE	2+	226	50	27	44					
101	Aug-89	WE	2+	256	64	24	42					
119	Aug-89	WE	2+	292	55	36	45					
15014	Aug-89	WE	2+	366	64	36	55					
15022	Aug-89	WE	2+	278	48	17	35					
15023	Aug-89	WE	2+	279	57	23	37					
15024	Aug-89	WE	2+	276	42	18	34					
15025	Aug-89	WE	2+	274	48	24	37					
2	Ott-89	WE	2+	396	76	39	63					
3	Ocl-89	WE	2+	400	71	29	49					
4	Ocl-89	WE	2+	356	79	34	49					
6	Ocl-89	WE	2+	416	64	22	48					
7	Ocl-89	WE	2+	332	90	49	74					
9	Ocl-89	WE	2+	351	91	51	73					
9	Ocl-89	WE	2+	345	63	28	48					
10	Ocl-89	WE	2+	368	55	21	38					
11	Ocl-89	WE	2+	363	63	45	63					
11	Ocl-89	WE	2+	304	74	38	60					
13	Ocl-89	WE	2+	366	70	44	60					
13	Ocl-89	WE	2+	341	77	37	54					
16	Ott-89	WE	2+	372	65	25	47					
17	Ocl-89	WE	2+	185	62	30	47					
23	Ocl-89	WE	2+	355	64	23	47					

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
23	Ocl-89	WE	2+	218	75	37	58					
24	Ott-89	WE	2+	382	94	38	72					
48	Ocl-89	WE	2+	407	82	50	73					
50	Ocl-89	WE	2+	380	111	44	80					
52	Ocl-89	WE	2+	607	62	27	50					
54	Ocl-89	WE	2+	363	87	51	73					
55	Ocl-89	WE	2+	391	82	37	67					
25108	Ocl-89	WE	2+	391	68	27	55					
25114	Ocl-89	WE	2+	372	29	24	48					
025924	Ocl-89	WE	2+	397	90	38	69					
025925	Ocl-89	WE	2+	419	71	30	57					
1	May-89	WE	3+	355	73	39	54	69				
2	May-89	WE	3+	395	74	25	44	62				
3	May-89	WE	3t	366	94	44	75	84				
3	May-89	WE	3+	352	60	25	44	57				
4	May-89	WE	3+	315	75	29	44	62				
4	May-89	WE	3+	345	82	18	36	58				
4	May-89	WE	3+	340	55	15	34	48				
5	May-89	WE	3+	288	74	18	45	64				
5	May-89	WE	3+	314	85	33	58	77				
6	May-89	WE	3+	364	107	45	72	97				
8	May-89	WE	3+	332	71	19	35	65				
7	May-89	WE	3+	326	76	37	52	69				
9	May-89	WE	3+	246	61	31	46	57				
11	May-89	WE	3+	398	116	50	74	95				
11	May-89	WE	3+	420	73	30	51	69				
11	May-89	WE	3+	394	99	43	68	85				
12	May-89	WE	3+	425	81	37	53	71				
12	May-89	WE	3+	450	140	56	96	125				
12	May-89	WE	3+	425	74	32	56	71				
13	May-89	WE	3t	392	83	28	50	69				
14	May-89	WE	3+	326	69	23	45	63				
14	May-89	WE	3+	245	75	45	56	67				
14	May-89	WE	3+	396	75	30	40	64				
15	May-89	WE	3+	306	102	44	69	85				
16	May-89	WE	3+	358	69	30	44	59				
18	May-89	WE	3+	196	53	51	35	50				

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
19	May-89	WE	3+	256	52	29	39	49				
20	May-89	WE	3+	230	57	20	33	48				
21	May-89	WE	3+	423	62	25	41	53				
22	May-89	WE	3+	226	37	12	22	34				
24	May-89	WE	3+	422	104	35	62	90				
25	May-89	WE	3+	457	88	33	55	75				
25	May-89	WE	3+	365	71	19	35	56				
25	May-89	WE	3+	416	91	40	62	81				
28	May-89	WE	3+	364	66	23	40	62				
30	May-89	WE	3+	405	95	18	50	77				
31	May-89	WE	3+	450	96	38	64	81				
32	May-89	WE	3+	395	70	21	44	62				
35	May-89	WE	3+	376	86	36	54	67				
35	May-89	WE	3+	390	77	34	56	72				
38	May-89	WE	3+	430	85	37	54	76				
39	May-89	WE	3+	241	55	21	30	48				
45	May-89	WE	3+	351	59	21	40	53				
1	Aug-89	WE	3+	431	76	24	52	68				
	Aug-89	WE	3+	377	85	33	56	67				
	Aug-89	WE	3+	390	85	34	52	67				
2	Aug-89	WE	3+	444	74	23	41	60				
2	Aug-89	WE	3+	380	89	35	57	77				
2	Aug-89	WE	3+	285	67	31	47	63				
3	Aug-89	WE	3+	435	90	37	54	70				
3	Aug-89	WE	3+	420	78	27	52	71				
4	Aug-89	WE	3+	425	84	26	52	67				
5	Aug-89	WE	3+	528	75	26	52	64				
5	Aug-89	WE	3+	420	121	38	74	106				
6	Aug-89	WE	3+	448	77	32	52	63				
6	Aug-89	WE	3+	403	76	29	48	66				
7	Aug-89	WE	3+	478	88	33	69	78				
	Aug-89	WE	3+	368	74	29	52	67				
8	Aug-89	WE	3+	456	84	25	47	63				
8	Aug-89	WE	3+	407	76	26	47	68				
9	Aug-89	WE	3+	430	80	31	54	74				
10	Aug-89	WE	3+	450	72	26	45	56				
11	Aug-89	WE	3+	394	68	30	42	56				

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1s:	2nd	3rd	4th	5th	6th	7th
14	Aug-89	WE	3+	376	102	44	67	88				
15	Aug-89	WE	3t	390	74	28	47	60				
16	Aug-89	WE	3+	386	68	28	39	56				
17	Aug-89	WE	3+	428	a3	29	56	71				
17	Aug-89	WE	3+	455	78	24	45	70				
19	Aug-89	WE	3+	221	48	21	32	41				
20	Aug-89	WE	3+	457	67	14	41	51				
20	Aug-89	WE	3+	358	87	37	63	74				
21	Aug-89	WE	3+	384	55	17	34	46				
21	Aug-89	WE	3+	352	60	25	37	52				
22	Aug-89	WE	3+	470	90	34	59	72				
22	Aug-89	WE	3+	457	88	29	52	74				
22	Aug-89	WE	3+	418	74	29	54	61				
22	Aug-89	WE	3+	315	80	28	48	65				
23	Aug-89	WE	3+	460	83	32	58	71				
24	Aug-89	WE	3+	440	70	27	44	58				
25	AuQ-89	WE	3+	397	154	75	114	143				
26	Aug-89	WE	3+	391	92	42	64	80				
27	Aug-89	WE	3+	372	67	25	41	56				
32	Aug-89	WE	3+	405	81	21	47	66				
32	AuQ-89	WE	3+	430	95	40	66	81				
33	Aug-89	WE	3t	418	75	26	48	64				
33	Aug-89	WE	3+	360	86	27	47	70				
35	Aug-89	WE	3+	418	93	45	67	85				
36	Aug-89	WE	3+	395	78	39	50	64				
43	Aug-89	WE	3+	404	62	25	51	58				
98	Aug-a9	WE	3+	433	79	31	59	72				
15006	Aug-89	WE	3+	346	57	21	38	50				
15012	Aug-a9	WE	3t	405	84	37	54	72				
15016	Aug-89	WE	3+	371	64	27	47	56				
15018	Aug-a9	WE	3+	415	73	28	50	61				
15019	Aug-89	WE	3+	383	80	24	56	68				
15020	Aug-89	WE	3+	353	68	25	44	58				
15021	Aug-89	WE	3+	352	67	29	46	61				
15026	Aug-89	WE	3+	400	78	30	53	72				
15028	Aug-89	WE	3+	341	92	39	54	80				
15600	Aug-89	WE	3+	394	69	26	39	54				

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
15010	Aug-89	WE	3+	424	81	32	58	72				
	Oct-89	WE	3+	420	72	22	45	60				
1	Oct-89	WE	3+	454	74	31	47	62				
2	Oct-89	WE	3+	420	87	26	60	70				
2	Oct-89	WE	3+	435	77	35	52	68				
3	Oct-89	WE	3+	437	78	40	56	71				
5	Ocl-89	WE	3+	442	71	25	48	57				
5	Ocl-89	WE	3+	382	72	26	43	56				
6	Ott-89	WE	3+	445	84	72	59	71				
7	Ocl-89	WE	3+	445	79	24	54	69				
8	Oct-89	WE	3+	420	101	42	70	91				
9	Ocl-89	WE	3+	465	91	26	56	76				
9	Ocl-89	WE	3+	406	77	35	52	64				
10	Ocl-89	WE	3+	395	64	26	42	56				
11	Ocl-89	WE	3+	468	99	38	62	a4				
12	Ocl-89	WE	3+	417	62	23	40	51				
12	Ocl-89	WE	3+	395	95	40	58	76				
14	Ocl-89	WE	3+	425	68	29	44	57				
15	Ocl-89	WE	3+	447	83	24	40	61				
17	Ocl-89	WE	3+	397	79	36	53	65				
18	Oct-89	WE	3+	398	70	24	38	60				
20	Ocl-89	WE	3+	386	113	37	68	95				
24	Ocl-89	WE	3+	398	80	26	48	64				
25	Ott-89	WE	3+	387	70	36	50	61				
31	Oct-89	WE	3+	385	90	41	66	85				
44	Ott-89	WE	3+	446	81	33	53	67				
49	Ocl-89	WE	3+	423	102	42	71	88				
51	Ocl-89	WE	3+	432	114	43	70	92				
9567	Ocl-89	WE	3+	390	80	24	49	70				
25004	Ocl-89	WE	3+	484	64	19	38	52				
15012	act-a9	WE	3t	425	96	41	64	85				
25917	Ocl-89	WE	3+	443	a4	33	55	71				
25918	Ott-89	WE	3+	421	98	40	60	79				
25920	Ocl-89	WE	3+	456	81	29	52	70				
25921	Ocl-89	WE	3+	455	118	43	70	99				
25922	Ott-89	WE	3+	439	114	44	68	91				
25923	Ocl-89	WE	3+	452	100	41	65	86				

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
1	May-89	WE	4+	431	130	52	76	102	126			
	May-89	WE	4+	371	100	40	57	80	96			
1	May-89	WE	4+	390	114	50	63	83	106			
2	May-89	WE	4+	400	89	36	57	71	81			
2	May-89	WE	4+	466	113	48	70	93	101			
3	May-89	WE	4+	370	93	43	62	74	61			
3	May-99	WE	4+	410	97	36	60	74	90			
3	May-89	WE	4+	341	79	28	37	54	69			
3	May-89	WE	4+	441	107	50	76	93	106			
4	May-99	WE	4+	368	75	27	42	55	69			
4	May-89	WE	4+	552	59	23	35	44	57			
6	May-89	WE	4+	404	111	43	66	86	100			
7	May-89	WE	4+	365	86	32	49	66	79			
7	May-99	WE	4+	445	76	24	44	55	73			
8	May-89	WE	4+	393	83	32	46	59	73			
9	May-89	WE	4+	413	92	41	52	68	80			
10	May-89	WE	4+	353	88	36	52	61	78			
11	May-89	WE	4+	465	103	46	62	76	86			
12	May-89	WE	4+	434	103	43	68	87	97			
13	May-89	WE	4+	375	69	23	40	51	60			
13	May-89	WE	4+	490	111	31	45	68	93			
14	May-89	WE	4+	424	71	23	39	48	65			
15	May-89	WE	4+	342	82	25	38	53	66			
15	May-89	WE	4+	398	76	21	36	55	73			
22	May-89	WE	4+	430	104	47	67	88	102			
23	May-89	WE	4+	424	78	20	38	50	68			
24	May-89	WE	4+	396	a9	15	43	65	84			
26	May-89	WE	4+	372	80	31	44	58	69			
26	May-89	WE	4+	446	90	30	48	62	80			
27	May-89	WE	4+	382	95	35	46	61	78			
28	May-89	WE	4+	380	99	36	51	67	81			
29	May-89	WE	4+	375	72	28	39	52	65			
29	May-89	WE	4+	376	110	34	70	a5	106			
29	May-09	WE	4+	431	81	22	37	59	72			
31	May-89	WE	4+	405	90	28	37	57	71			
36	May-89	WE	4+	395	101	38	59	77	94			
60	May-89	WE	4+	420	85	34	45	66	83			

Table 014.

continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
2	Aug-89	WE	4+	410	79	36	48	61	71			
3	Aug-89	WE	4+	432	117	38	72	89	108			
4	Aug-89	WE	4+	346	80	29	49	62	70			
5	Aug-89	WE	4+	513	93	32	49	68	80			
7	Aug-89	WE	4+	403	76	30	47	59	63			
8	Aug-89	WE	4+	480	108	31	58	80	98			
8	Aug-89	WE	4+	495	110	24	58	81	96			
11	Aug-89	WE	4+	420	91	29	56	71	80			
13	Aug-89	WE	4+	405	75	22	42	54	66			
14	Aug-89	WE	4+	491	81	33	49	58	70			
15	Aug-89	WE	4+	448	86	27	42	62	73			
16	Aug-89	WE	4+	450	120	44	80	94	109			
17	Aug-89	WE	4+	390	74	26	52	56	64			
18	Aug-89	WE	4+	455	78	24	39	59	73			
19	Aug-89	WE	4+	486	86	27	48	66	78			
20	Aug-89	WE	4+	484	85	29	50	64	75			
21	Aug-89	WE	4+	430	72	26	45	58	65			
21	Aug-89	WE	4+	446	76	28	47	57	70			
23	Aug-89	WE	4+	447	113	27	40	73	86			
23	Aug-89	WE	4+	431	82	25	50	64	75			
31	Aug-89	WE	4+	466	88	32	46	70	83			
39	Aug-89	WE	4+	422	99	24	56	78	94			
51	Aug-89	WE	4+	450	80	26	48	58	69			
61	Aug-09	WE	4+	430	82	24	50	60	71			
90	Aug-89	WE	4+	405	78	28	40	54	69			
91	Aug-89	WE	4+	430	95	23	42	67	84			
97	Aug-89	WE	4+	441	79	24	43	58	72			
107	Aug-89	WE	4+	426	83	38	46	59	72			
111	Aug-89	WE	4+	430	102	42	58	78	91			
114	Aug-89	WE	4+	432	76	20	35	53	68			
15005	Aug-89	WE	4+	428	62	18	31	46	57			
15011	Aug-89	WE	4+	434	86	29	44	59	76			
15013	Aug-89	WE	4+	435	82	22	42	59	76			
15599	Aug-89	WE	4+	443	04	24	42	56	67			
1	Oct-89	WE	4+	485	100	33	59	74	86			
1	Oct-89	WE	4+	453	95	33	59	74	88			
12	Oct-89	WE	4+	442	90	37	52	74	82			

Table D14.

continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
13	Oct-89	WE	4+	435	74	21	44	55	62			
14	Oct-89	WE	4 t	410	113	38	72	08	103			
19	Oct-89	WE	4+	490	102	28	54	70	92			
19	Oct-89	WE	4+	410	105	35	66	81	92			
21	Oct-89	WE	4+	482	96	18	46	73	88			
21	Oct-89	WE	4+	540	113	41	72	88	102			
23	Oct-89	WE	4+	442	92	36	54	65	80			
27	Oct-89	WE	4+	440	80	26	47	62	71			
44	Oct-89	WE	4+	436	92	37	58	71	83			
53	Oct-89	WE	4+	479	90	30	45	66	00			
56	Oct-89	WE	4+	508	116	36	53	76	94			
25001	Oct-89	WE	4+	437	83	22	44	56	73			
25003	Oct-89	WE	4+	459	104	28	58	00	94			
25005	Oct-89	WE	4+	459	100	32	61	75	90			
25915	act-89	WE	4+	440	93	43	60	69	80			
25919	Oct-89	WE	4 t	448	112	43	69	86	101			
A	Oct-89	WE	4+	540	132	45	61	85	108			
1	May-89	WE	5+	470	74	15	25	38	49	63		
1	May-89	WE	5+	510	111	35	57	77	96	108		
3	May-09	WE	5+	548	101	32	56	70	85	97		
4	May-09	WE	5+	510	128	40	62	83	104	119		
5	May-89	WE	5+	395	120	46	71	83	102	110		
5	May-89	WE	5+	411	123	36	50	75	94	117		
6	May-89	WE	5+	330	121	33	54	73	97	112		
7	May-89	WE	5+	500	128	41	57	74	93	115		
10	May-89	WE	5+	440	119	40	63	77	94	116		
11	May-09	WE	5+	402	135	53	70	88	108	120		
12	May-09	WE	5+	420	88	25	34	50	01	82		
23	May-09	WE	5 t	570	127	25	49	85	104	116		
24	May-09	WE	5+	560	129	31	55	69	100	117		
24	May-09	WE	5+	530	109	37	51	70	88	103		
25	May-89	WE	5+	432	110	39	59	77	90	104		
26	May-09	WE	5+	500	110	35	52	71	90	111		
20	May-89	WE	5+	490	75	24	40	40	60	73		
29	May-89	WE	5+	413	85	20	40	54	68	80		
07	Aug-89	WE	5+	455	115	44	60	76	92	105		
12216 Y	Aug-89	WE	5+	670	116	31	52	80	96	106		

Table D14. continued...

Fish No	Date	Species	Age	Capture Length (mm)	Scale Length (mm)	1st	2nd	3rd	4th	5th	6th	7th
25002	Oct-89	WE	5+	422	79	30	45	54	63	74		
7	Oct-89	WE	5+	486	84	25	51	60	68	74		
22	May-09	WE	6+	605	119	33	49	53	77	90	116	
20	May-89	WE	7+	660	163	44	56	71	93	114	131	148
68	Aug-89	WE	7+	612	126	41	54	68	81	96	113	123

Table D15. Lengths and weights of chinook salmon collected by electrofishing and **gillnet** surveys in Lake Roosevelt, August 1988 to December 1989.

FISH NO.	LOCATION	DATE	LENGTH (MM)	WEIGHT (G)
1	5	8-3-88	665	
2	2	10-16-88	495	1,195
3	5	10-5-88	535	
4	5	10-5-88	473	
5	5	10-4-88	534	
6	5	10-4-88	572	
7	5	10-4-88	550	
8	5	10-4-88	430	
9	5	10-4-88	522	
10	6	10-22-88	510	1,605
11	5	10-3-89	400	

Table D16. Lengths and weights of brown trout collected by electrofishing and **gillnet** surveys in Lake Roosevelt, August 1988 to December 1989.

FISH No.	LOCATION	DATE	LENGTH (MM)	WEIGHT (G)
1	5	8-3-88	250	
2	5	8-3-88	410	
3	5	8-3-88	431	
4	5	8-3-88	497	
5	5	8-3-88	416	
6	5	8-3-88	470	
7	5	8-3-88	732	5,783
8	5	8-3-88	430	
9	5	10-5-88	505	
10	5	10-8-88	557	
11	5	10-5-88	462	
12	5	10-5-88	459	
13	5	10-4-88	477	
14	5	10-4-88	501	
15	5	10-4-88	490	
16	5	10-4-88	501	
17	5	10-4-88	470	
18	5	10-4-88	450	
19	5	10-4-88	432	
20	5	10-4-88	490	
21	5	10-4-88	410	
22	5	10-4-88	476	
23	5	10-4-88	445	
24	a	10-27-88	340	
25	5	5-31-89	421	
26	5	5-31-89	425	
27	5	5-31-89	410	
28	5	6-1-89	151	
29	5	5-31-89	341	
30		8-7-89	560	
31	1	8-7-89	585	1,987
32	5	8-7-89	605	2,290
33	5	8-1-89	605	
34	5	8-1-89	231	140
35	5	8-1-89	410	
36	5	8-1-89	215	106
37	5	8-1-89	416	
38	5	8-23-89	145	
39	5	a-23-89	610	2,116
40	5	8-23-89	235	
41	5	8-23-89	594	2,538
42	5	8-23-89	530	1,698
43	5	8-23-89	498	959
44	5	8-23-89	462	861
45	5	8-23-89	386	545
46	5	10-17-89	582	
47	5	10-17-89	449	
48	5	10-17-89	305	

Table D17. Lengths and weights of largemouth bass collected by electrofishing and gillnet surveys in Lake Roosevelt, August 1988 to December 1989. No weights were taken for largemouth bass.

FISH No.	LOCATION	DATE	LENGTH (MM)	WEIGHT (G)
1	1	8-25-88	266	
2	1	8-25-88	374	
3	5	10-4-88	127	
4	6	10-23-88	116	
5	6	10-23-88	125	
6	4	5-6-89	380	
7	4	5-7-89	356	
8	5	6-1-89	390	
9	5	10-3-89	150	
10	5	10-3-89	114	
11	5	10-3-89	119	

Table D18. Lengths and weights of smallmouth bass collected by electrofishing and gillnet surveys in Lake Roosevelt, August 1988 to December 1989. This table includes smallmouth bass > than 200 mm in total length. Additionally, 64 smallmouth bass less than 200 mm were measured.

FISH NO.	LOCATION	DATE	LENGTH (MM)	WEIGHT (G)
	3	8-24-88	305	
2	3	a-24-88	130	
3	4	8-5-88	240	
4	4	8-5-88	258	454
5	4	8-4-88	260	
6	4	8-4-88	293	
7	7	8-11-88	225	181
8	7	8-11-88	237	196
9	7	S-11-88	235	186
10	7	8-11-88	251	225
11	7	8-11-88	242	218
12	7	8-11-88	243	217
13	7	8-11-88	241	221
14	7	8-11-88	277	315
15	7	8-11-88	235	212
16	7	8-11-88	239	235
17	7	8-11-88	271	327
18	7	8-11-88	228	211
19	7	8-11-88	265	253
20	7	8-11-88	235	
21	7	B-11-88	202	
22	7	8-11-88	213	
23	7	8-11-88	217	
24	7	8-11-88	210	
25	7	8-11-88	200	
26	7	8-11-88	205	
27	8	8-10-88	280	364
28	8	8-10-88	280	354
29	8	8-10-88	280	373
30	8	8-10-88	215	158
31	8	8-10-88	270	
32	8	8-11-88	340	
33	9	8-9-88	260	
34	9	8-9-88	230	
35	9	B-9-88	280	
36	9	8-9-88	250	
37	9	8-9-88	180	
38	9	8-9-88	270	
39	9	8-10-88	210	
40	3	10-15-88	329	
41	7	10-26-88	210	
42	7	10-26-88	210	
43	7	10-26-88	200	
44	2	5-20-89	301	
45	2	5-18-89	290	
46	3		331	
47	4	5-6-89	292	

Table D18. continued

FISH No.	LOCATION	DATE	LENGTH (MM)	WEIGHT (G)
48	4	5-8-89	370	
49	4	5-6-89	298	
50	4	5-6-89	295	
51	4	5-7-89	315	
52	4	5-7-89	245	
53	4	5-7-89	270	
54	5	5-1-89	333	
55	6	5-16-89	310	
56	7	5-8-89	360	
57	7	5-8-89	360	
58		5-8-89	280	
59	7	5-8-89	332	
60		5-8-89	360	
61		5-8-89	372	
62	7	5-8-89	330	
63	7	5-8-89	340	
64	7	5-8-89	362	
65	7	5-8-89	325	
66	7	5-8-89	275	
67	7	5-8-89	360	
68	7	5-8-89	344	
69	7	5-8-89	260	
70	7	5-8-89	310	
71	7	5-8-89	295	
72	7	5-8-89	358	
73	7	5-8-89	280	
74	7	5-8-89	270	
75	8	5-9-89	363	
76	8	5-9-89	321	
77	8	5-9-89	332	
78	8	5-9-89	310	
79	8	5-9-89	325	
80	8	5-9-89	300	
81	8	8-9-89	260	
82	8	5-9-89	260	
83	4	8-3-89	340	
84	4	8-3-89	331	
85	4	8-3-89	321	
86	6	8-9-89	235	
87	7	8-28-89	310	
88	7	8-28-89	310	
89	7	8-28-89	252	
90	7	8-28-89	195	
91	7	8-28-89	330	
92	8	8-29-89	315	499
93	8	8-29-89	304	489
94	8	8-29-89	284	419
95	8	8-29-89	327	
96	8	8-29-89	206	
97	4	1 0-8-89	385	
98	9	10-11-89	356	

APPENDIX E

ZOOPLANKTON DATA

On pages 229 to 293 the following symbols are used.

$A_v L$ (mm)
 $I_n L$ (mm)
 $b I_n L$
 $b I_n L$

They should be read as:

$\overline{A_v L}$ (mm)
 $\overline{I_n L}$ (mm)
 $\overline{b I_n L}$
 $\overline{b I_n L}$

Table E1. Mean monthly zooplankton density in Lake Roosevelt at Kettle Falls for October 1988

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Alona guttata</i>	.	.	1.74	0.27
<i>Bosmina longirostris</i>	0.08	□□□□□	83.10	5.46
<i>Ceriodaphnia quadrangula</i>	.	.	1.74	0.27
<i>Chydorus sphaericus</i>	0.02	0.02	19.57	3.07
<i>Daphnia galeata mendota</i>	0.05	0.05	48.04	2.34
<i>Daphnia schodleri</i>	*	.	2.71	1.63
<i>Daphnia retrocurva</i>	.	.	2.71	1.63
<i>Leptodora kindti</i>	.	□□□□□	0.1 g	0.27
<i>Simocephalus serrulatus</i>	.	.	1.74	0.27
TOTAL CLADOCERA	0.15	0.16	161.54	7.01
ES	*	0.00	0.19	0.27
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	*	.	2.71	1.64
<i>Skistodiaptomus oregonensis</i>	0.01	0.01	13.75	0.32
<i>Epischura nevadensis</i>	.	0.00	0.97	1.37
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.03	0.03	31.77	1.19
<i>Mesocyclops edax</i>	0.01	0.01	9.49	0.24
HARPACTICOIDA:				
<i>Bryocanptus</i> sp.	.	.	4.26	0.56
TOTAL COPEPODA	□□□□□	0.06	62.95	1.26
TOTAL COPEPODA NAUPLII	0.32	0.28	301.52	24.55
ROTATORIA SPECIES				
<i>Asplanchna</i> spp.	0.20	0.08	192.30	15.02
<i>Euchlanis triquetra</i>	0.05	0.05	46.48	0.14
<i>Kellicottia longispina</i>	0.31	0.27	287.18	28.43
<i>Keratella</i> sp.	0.17	0.15	159.19	9.92
<i>Lecane</i> sp.	0.07	0.08	76.13	6.53
<i>Polyarthra</i> sp.	0.06	0.06	59.85	5.39
<i>Trichocerca</i> sp.	0.02	0.02	21.12	5.27
<i>Trichotria tetractis</i>	0.02	0.02	19.76	0.61
TOTAL ROTATORIA	0.89	0.84	882.01	35.43
TOTAL ZOOPLANKTON	1.41	1.34	1388.02	49.50
. = TRACE				
ES = entire sample counted.				

Table E2. Mean monthly zooplankton density in Lake Roosevelt at Kettle Falls for May 1989

	SS #1 #/LITER	SS #2 #/LITER	AVERAGE #/CUB.METER	±S.D
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.02	0.05	34.43	21.82
<i>Ceriodaphnia quadrangula</i>	.		2.37	3.36
<i>Chydorus sphaericus</i>	0.04	0.04	39.50	4.59
<i>Daphnia galeata mendota</i>	*		2.37	3.36
<i>Daphnia schodleri</i>	*		2.37	3.36
<i>Streblocerus serricaudatus</i>		0.01	4.53	6.41
TOTAL CLADOCERA	0.06	0.10	85.57	23.64
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.03	.	16.51	16.94
<i>Skidodiaptomus oregonensis</i>		.	2.27	3.21
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.06	0.02	42.20	27.63
HARPACTICOIDA:				
<i>Bryocanptus</i> sp.	0.01	0.03	18.35	12.51
COPEPODID				
TOTAL COPEPODA	0.10	0.05	79.33	35.27
TOTAL COPEPODA NAUPLII	1.43	2.51	1970.20	764.63
ROTATORIA SPECIES				
<i>Asplanchna</i> sp.	0.46	0.34	398.03	88.59
<i>Brachionus quadridentatus</i>	0.11	0.12	118.18	5.93
<i>Collotheca mutabilis</i>	0.02	0.03	23.10	5.80
<i>Euchlanis triquetra</i>	.	0.02	11.44	9.46
<i>Filinia terminalis</i>	0.01	0.01	9.28	0.31
<i>Kellicottia longispina</i>	1.74	1.64	1687.19	72.18
<i>Keratella</i> sp.	2.10	1.15	1622.91	673.52
<i>Lecane</i> sp.	0.02	0.03	23.10	5.80
<i>Mnostyla lunaris</i>	.		2.37	3.36
<i>Notholca</i> sp.	□ ES	0.36	573.21	304.29
<i>Notholca (Agnotholca) foliacea</i>	0.01	0.05	32.05	25.18
<i>Polyarthra</i> sp.	1.49	0.79	1 142.20	493.64
<i>Synchaeta pectinata</i>	0.76	0.63	690.29	91.69
<i>Trichotria tetractis</i>	.	0.05	25.04	28.69
TOTAL ROTATORIA	7.51	5.19	6358.39	1636.65
TOTAL ZOOPLANKTON	9.1	7.85	8493.49	883.90
. = trace				
ES = entire sample counted				

Table E3. Mean monthly zooplankton density in Lake Roosevelt at- Kettle Falls for August 1989

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB. METER	±S.D.
CLADOCERA SPECIES				
<i>Alona guttata</i>	0.01		7.26	10.27
<i>Bosmina longirostris</i>	0.01	0.01	14.53	
<i>Chydorus sphaericus</i>	0.01	0.01	14.53	
<i>Daphnia ambigua</i>	0.09	0.16	123.47	51.36
<i>Daphnia galeata mendota</i>	3.56	3.47	3515.19	61.63
<i>Daphnia schodleri</i>	0.12	0.12	116.20	
<i>Daphnia retrocurva</i>	0.35	0.35	348.61	
<i>Daphnia sp. immature</i>	1.53	1.95	1735.81	297.86
<i>Daphnia thorata</i>	1.16	2.06	1612.34	636.81
<i>Leptodora kindti</i>	1.66	3.03	2345.88	967.54
<i>Sida crystallina</i>	*		1.45	2.05
<i>Simocephalus serrulatus</i>		0.01	7.26	10.27
TOTAL CLADOCERA	8.50	11.17	9842.53	1891.95
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.06	0.06	58.10	
<i>Epischura nevadensis</i>		0.01	4.36	2.05
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.16	0.12	137.99	30.81
COPEPODID	0.04	0.04	43.58	
TOTAL COPEPODA	0.26	0.22	244.03	28.76
TOTAL COPEPODA NAUPLII	0.97	0.62	798.91	246.51
ROTATORIA SPECIES				
<i>Euchlanis triquetra</i>	0.01	0.01	14.53	
<i>Kellicottia longispina</i>	0.55	0.36	457.56	133.52
<i>Keratella sp.</i>	8.82	6.59	7705.83	1571.49
<i>Pleosoma truncatum</i>	0.78	0.77	777.12	10.27
<i>Polyarthra sp.</i>	1.19	1.64	1416.25	318.41
<i>Synchaeta pectinata</i>	2.09	2.14	2113.47	30.81
<i>Testudinella patina f. triloba</i>	0.01		7.26	10.27
TOTAL ROTATORIA	13.47	11.52	12492.01	1376.33
TOTAL ZOOPLANKTON	23.2	23.53	23377.48	233.3
CHIRONOMIDAE SPECIES	0.02	0.03	26.15	4.11
* = trace				
ES = entire sample counted				

Table E4. Mean monthly zooplankton density in Lake Roosevelt at Kettle Falls for October 1989

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Alona guttata</i>	*	0.01	7.92	8.96
<i>Bosmina longirostris</i>	0.36	1.13	744.18	541.07
<i>Chydorus sphaericus</i>	0.01	0.06	33.28	33.61
<i>Daphnia ambigua</i>	0.04	0.48	261.50	315.99
<i>Daphnia galeata mendota</i>	0.12	0.48	302.73	257.68
<i>Daphnia schodleri</i>	0.00	0.10	50.71	69.48
<i>Daphnia retrocurva</i>	0.16	0.70	429.53	380.92
<i>Daphnia sp. immature</i>	0.05	0.06	53.90	4.46
<i>Daphnia thorata</i>	0.05	0.07	62.62	12.30
<i>Diaphanosoma brachyurum</i>	0.01	0.07	38.83	45.94
<i>Leptodora kindti</i>	*	*	2.50	3.32
<i>Sida crystallina</i>	*	*	8.72	7.84
<i>Streblocerus pygmaeus</i>	.	0.00	1.59	2.24
TOTAL CLADOCERA	0.80	3.16	1998.01	1675.80
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiatomus ashlandi</i>	0.01	0.09	49.93	50.42
<i>Skistodiatomus oregonensis</i>	.	0.00	0.79	1.12
<i>Epischura nevadensis</i>	□ ◄ □ □	0.01	7.37	9.75
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.04	0.31	175.92	194.97
COPEPODID	.	0.00	1.59	2.24
TOTAL COPEPODA	□ ◄ □ □	0.41	235.60	255.13
TOTAL COPEPODA NAUPLII	0.24	0.50	368.54	184.78
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	*	0.01	8.72	7.84
<i>Conochilus unicornis</i>	*	0.04	22.98	28.01
<i>Euchlanis triquetra</i>	0.01	0.07	38.83	45.94
<i>Kellicottia longispina</i>	3.24	4.35	3796.67	782.79
<i>Keratella sp.</i>	3.06	6.53	4798.17	2452.57
<i>Lecane sp.</i>	0.01	0.00	6.34	8.97
<i>Pleosoma truncatum</i>	0.01	0.06	33.28	33.61
<i>Polyarthra sp.</i>	0.98	3.14	2058.17	1526.88
<i>Synchaeta pectinata</i>	0.48	11.22	5853.50	7596.30
<i>Trichocerca sp.</i>	0.05	1.10	572.91	742.93
<i>Trichotria tetractis</i>	0.00	0.01	7.92	8.96
TOTAL ROTATORIA	7.85	26.54	17197.5	13221.37
TOTAL ZOOPLANKTON	8.94	30.61	19799.65	15323.00
CHIRONOMIDAE SPECIES	.	.	2.12	0.58
. = TRACE				
ES = entire sample counted.				

Table E5. Mean monthly zooplankton density in Lake Roosevelt at Gifford for August 1988

	SS#1 #/LITER	SS#2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>		0.14	71.16	100.64
<i>Chydorus sphaericus</i>		0.06	28.47	40.26
<i>Daphnia galeata mendota</i>	5.33	2.31	3815.34	2134.99
<i>Daphnia schoedleri</i>	2.94	1.04	1990.83	1339.41
<i>Daphnia retrocurva</i>	0.83	0.26	541.24	403.13
<i>Daphnia sp. immature</i>	0.78	0.18	480.33	424.34
<i>Diaphanosoma brachyurum</i>		0.01	4.74	6.71
<i>Leptodora kindti</i>	*	.	1.54	0.23
<i>Sida crystallina</i>	0.00	0.01	4.74	6.71
TOTAL CLADOCERA	9.88	4.01	6938.39	4147.56
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.99	0.12	555.16	610.67
<i>Skistodiaptomus oregonensis</i>	1.08	0.22	648.50	608.49
<i>Epischura nevadensis</i>	0.30	0.17	234.59	90.22
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	1.06	0.34	698.70	505.04
TOTAL COPEPODA	3.42	0.85	2136.95	1814.43
TOTAL COPEPODA NAUPLII	0.11	0.09	104.82	14.06
TOTAL ZOOPLANKTON	13.41	4.95	9180.16	5982.10
. = TRACE				
ES = entire sample counted.				

Table E6. Mean monthly zooplankton density in Lake Roosevelt at Gifford for October 1988.

	ss #1	ss #2	AVERAGE	
CLADOCERA SPECIES	##/LITER	#/LITER	#/CUB.METER	±S.D.
Bosmina longirostris	0.07	0.13	96.12	43.54
Chydorus sphaericus	0.01	.	4.23	1.71
Daphnia galeata mendota	0.28	0.30	291.27	15.40
Daphnia schodleri	0.27	0.48	379.19	147.44
Daphnia retrocurva	0.05	0.05	50.33	5.74
Daphnia sp. immature	0.04	0.08	62.72	30.95
Diaphanosoma brachyurum	.	0.01	4.38	2.35
Diaphanosoma birgei	.	.	1.51	2.14
Leptodora kindti	.	.	0.86	0.06
TOTAL CLADOCERA	0.72	1.06	890.61	243.48
COPEPODA SPECIES				
CALANOIDA:				
Leptodiptomus ashlandi	0.00	0.02	7.55	10.68
Skistodiptomus oregonensis	0.08	0.09	86.30	10.41
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.22	0.21	211.77	4.64
Mesocyclops edax	0.01	0.01	5.74	0.42
HARPACTICOIDA:				
COPEPODID	0.00	0.01	3.02	4.27
TOTAL COPEPODA	0.30	0.33	314.39	21.15
TOTAL COPEPODA NAUPLII	0.36	0.50	433.32	100.80
ROTATORIA SPECIES				
Cephalodella gibba	.	0.00	1.36	1.92
TOTAL ROTATORIA	.	0.00	1.36	1.92
TOTAL ZOOPLANKTON	1.38	1.89	1639.68	360.06
. = TRACE				
ES = entire sample counted				

Table E7. Mean monthly zooplankton density in Lake Roosevelt at Gifford for May 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.09	0.05	72.10	29.11
<i>Ceriodaphnia quadrangula</i>		0.02	8.59	12.14
<i>Chydorus sphaericus</i>	0.03		15.45	21.85
<i>Daphnia galeata mendota</i>	0.03		15.45	21.85
<i>Daphnia schodleri</i>	0.03		15.45	21.85
<i>Daphnia retrocurva</i>	0.03		15.45	21.85
<i>Diaphanosoma brachyurum</i>		0.02	8.59	12.14
<i>Leptodora kindtii</i>	0.02	0.01	13.84	8.40
<i>Scapholeberis aurita</i>		0.02	8.59	12.14
<i>Sida crystallina</i>	0.03	0.00	15.45	21.85
TOTAL CLADOCERA	0.26	0.12	188.96	99.00
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandisi</i>	0.06	0.03	48.07	19.41
<i>Epischura nevadensis</i>	0.03		15.45	21.85
CYCLOPOIDA:				
<i>Cyclops bicuspidatus thomasi</i>	0.15	0.09	120.16	48.52
TOTAL COPEPODA	0.25	0.12	183.67	89.78
TOTAL COPEPODA NAUPLII	8.53	2.85	5688.61	4014.01
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	2.35	0.64	1491.65	1211.06
<i>Brachionus quadridentatus</i>	0.65	0.48	564.78	118.81
<i>Conochilus unicornis</i>		0.14	68.68	97.13
<i>Epiphanes sp.</i>	0.03		15.45	21.85
<i>Euchlanis triquetra</i>	0.09	0.05	72.10	29.11
<i>Filinia terminalis</i>		0.05	25.76	36.42
<i>Kellicottia longispina</i>	7.07	2.15	4610.59	3485.04
<i>Keratella sp.</i>	17.39	6.25	11821.86	7879.80
<i>Lecane sp.</i>	0.09		46.34	65.54
<i>Notholca sp.</i>	5.00	1.49	3249.38	2482.74
<i>Notholca (Agnotholca) foliacea</i>	0.25	0.26	252.36	7.35
<i>Polyarthra sp.</i>	4.29	2.85	3572.32	1021.13
<i>Synchaeta pectinata</i>	5.53	2.25	3889.73	2319.90
<i>Testudinella patina f. triloba</i>	0.03	0.02	24.03	9.70
<i>Trichotrta tetractis</i>	0.09	0.07	80.68	16.97
TOTAL ROTATORIA	42.88	16.69	29785.71	18520.75
TOTAL ZOOPLANKTON	51.92	19.78	35846.95	22726.40
. = TRACE				
ES = entire sample counted				

Table E8. Mean monthly zooplankton density in Lake Roosevelt at Gifford for August 1989.

	ss #1	ss #2	AVERAGE	
CLADOCERA SPECIES	#/LITER	# / L I T E R	#/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.09	0.06	72.63	20.54
<i>Ceriodaphnia quadrangula</i>		0.03	14.53	20.54
<i>Chydorus sphaericus</i>	0.03	0.03	29.05	
<i>Daphnia galeata mendota</i>	4.27	4.53	4401.26	184.88
<i>Daphnia schoedleri</i>	0.32	0.26	290.51	41.08
<i>Daphnia retrocurva</i>	0.87	0.70	784.38	123.25
<i>Daphnia sp. immature</i>	3.37	3.83	3602.35	328.68
<i>Daphnia thorata</i>	2.12	3.75	2934.17	1150.37
<i>Leptodora kindti</i>	0.21	0.46	338.45	178.72
<i>Sida crystallina</i>		.	1.45	2.05
TOTAL CLADOCERA	11.28	13.65	12468.78	1678.31
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	0.17	0.09	130.73	61.63
<i>Skistodiptomus oregonensis</i>	0.03	0.06	43.58	20.54
<i>Episura nevadensis</i>	0.03		14.53	20.54
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.61	0.38	493.87	164.34
<i>Mesocyclops edax</i>	0.03		14.53	20.54
COPEPODID	0.03		14.53	20.54
TOTAL COPEPODA	0.90	0.52	711.75	267.05
TOTAL COPEPODA NAUPLII	3.92	3.37	3645.92	390.30
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	0.87	0.87	871.54	
<i>Kellicottia longispina</i>	0.78	0.93	857.01	102.71
<i>Keratella sp.</i>	18.68	18.71	18694.44	20.54
<i>Pleosoma truncatum</i>	7.87	7.90	7887.40	20.54
<i>Polyarthra sp.</i>	13.83	13.33	13581.43	349.22
<i>Synchaeta pectinata</i>	5.08	5.14	5113.01	41.08
TOTAL ROTATORIA	47.12	46.89	47004.82	164.34
TOTAL ZOOPLANKTON	63.22	64.43	63831.27	855.60
. = TRACE				
ES = entire sample counted				

Table E9. Mean monthly zooplankton density in Lake Roosevelt at Gifford for October 1989.

CLADOCERA SPECIES	s s #1 #/LITER	s s #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.35	0.40	372.28	33.16
<i>Chydorus sphaericus</i>	0.03	0.02	24.86	11.83
<i>Daphnia ambigua</i>	0.02	0.02	16.55	0.09
<i>Daphnia galeata mendota</i>	0.74	0.66	699.37	56.33
<i>Daphnia schodleri</i>	1.06	0.94	1001.49	87.17
<i>Daphnia retrocurva</i>	0.18	0.37	276.86	133.13
<i>Daphnia sp. immature</i>	0.13	0.09	111.79	29.84
<i>Daphnia thorata</i>	0.15	0.16	157.19	10.88
<i>Diaphanosoma birgei</i>	0.01		4.15	5.87
<i>Leptodora kindti</i>	*	*	3.39	0.60
<i>Sida crystallina</i>	0.03	0.04	37.22	5.66
TOTAL CLADOCERA	2.7	2.70	2705.15	8.31
CQPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	0.09	0.09	91.02	0.48
<i>Skistodiptomus oregonensis</i>	0.03	0.01	20.73	17.66
<i>Epischura nevadensis</i>	0.02	0.02	16.55	0.09
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.47	0.45	459.28	8.26
COPEPODID	0.05	0.05	49.65	0.26
TOTAL COPEPODA	0.66	0.62	637.23	26.75
TOTAL COPEPODA NAUPLII	1.62	1.42	1518.81	142.54
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	0.01	0.01	8.27	0.04
<i>Kellicottia longispina</i>	1.90	2.02	1960.92	83.34
<i>Keratella sp.</i>	1.60	5.17	3386.08	2521.67
<i>Pleosoma truncatum</i>	0.06	0.03	45.56	17.79
<i>Polyart hra sp.</i>	1.94	1.62	1779.67	219.97
<i>Synchaeta pectinata</i>	0.49	0.35	418.15	101.66
<i>Trichocerca sp.</i>	0.56	1.00	777.02	311.89
TOTAL ROTATORIA	6.55	10.20	8375.67	2577.43
TOTAL ZOOPLANKTON	11.53	14.94	13236.86	2411.20
CHIRONOMIDAE SPECIES	*	*	0.50	*
* = TRACE				
ES = entire sample counted				

Table E10. Mean monthly zooplankton density in Lake Roosevelt at Hunters for August- 1988.

	ss #1	ss #2	AVERAGE	
CLADOCERA SPECIES	#/LITER	#/LITER	#/CUB.METER	± S. D.
Bosmina longirostris	0.15	0.09	123.62	43.63
Ceriodaphnia quadrangula	0.00	0.07	34.79	49.20
Chydorus sphaericus	0.00	0.02	11.60	16.40
Daphnia galeata mendota	6.18	5.01	5594.11	827.08
Daphnia schodleri	6.12	4.15	5134.18	1390.13
Daphnia retrocurva	0.87	0.63	745.61	168.92
Daphnia sp. immature	1.79	0.97	1382.96	578.32
Leptodora kindti	0.02	0.03	22.95	6.24
TOTAL CLADOCERA	15.13	10.97	13049.82	2936.25
COPEPODA SPECIES				
CALANOIDA:				
Leptodiptomus ashlandi	0.96	0.42	687.59	382.05
Skistodiptomus oregonensis	1.92	1.97	1943.36	39.44
Epischura nevadensis	0.31	0.23	270.43	54.47
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.83	0.83	834.52	0.51
Mesocyclops edax	0.00	0.05	23.19	32.80
COPEPODID	0.09	0.19	139.11	65.65
TOTAL COPEPODA	4.11	3.69	3898.19	298.13
TOTAL COPEPODA NAUPLII	0.40	0.67	537.09	191.56
TOTAL ZOOPLANKTON	19.64	15.33	17485.1	3047.60
. = TRACE				
ES = entire sample counted				

Table EII. Mean monthly zooplankton density in Lake Roosevelt at Hunt&s for October 1982.

	ss #1 ##/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.14	0.05	95.13	57.07
<i>Ceriodaphnia quadrangula</i>	0.05		27.10	38.32
<i>Chydorus sphaericus</i>		0.04	21.91	30.99
<i>Daphnia galeata mendota</i>	2.68	1.93	2305.38	533.51
<i>Daphnia schodleri</i>	8.44	19.75	14096.61	7998.50
<i>Daphnia retrocurva</i>	0.11	0.80	454.06	488.86
<i>Daphnia sp. immature</i>	1.44	5.15	3292.58	2625.37
<i>Diaphanosoma birgei</i>	0.01		6.77	9.58
<i>Leptodora kindti</i>	0.06	0.05	52.45	4.77
TOTAL CLADOCERA	12.93	27.77	20351.99	10500.46
COPEPODA SPECIES				
CALANOIDA:				
<i>Skistodiaptoms oregonensis</i>	3.54	3.71	3625.02	125.61
<i>Epischura nevadensis</i>	0.14	0.11	122.52	18.34
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.96	0.73	847.98	161.19
<i>Mesocyclops edax</i>	0.03	0.04	35.46	11.83
TOTAL COPEPODA	4.66	4.60	4630.98	42.08
TOTAL COPEPODA NAUPLII	1.04	0.83	937.93	148.95
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	0.14	0.05	95.13	57.07
<i>Brachionus quadridentatus</i>	0.16	0.02	92.25	99.47
<i>Cephalodella gibba</i>	0.01	0.01	12.25	1.83
<i>Kellicottia longispina</i>	0.01	0.01	12.25	1.83
<i>Polyarthra sp.</i>	0.34	0.08	207.70	185.28
<i>Synchaeta pectinata</i>	0.18	0.09	131.89	62.57
TOTAL ROTATORIA	0.84	0.26	551.47	408.06
TOTAL ZOOPLANKTON	19.47	33.46	6467.37	9892.40
* = TRACE				
ES = entire sample counted.				

Table E12. Mean monthly zooplankton density in Lake Roosevelt at Hunters for May 1989.

CLADOCERA SPECIES	SS #1 #/LITER	SS #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.01	0.02	16.88	4.60
<i>Ceriodaphnia quadrangula</i>	*	0.01	6.74	4.71
<i>Chydorus sphaericus</i>	*	0.01	6.74	4.71
<i>Daphnia galeata mendota</i>	*	0.02	11.77	11.83
<i>Daphnia schodleri</i>	0.01	0.01	6.44	2.30
<i>Leptodora kindti</i>	0.02	0.01	15.71	2.85
<i>Sida crystallina</i>	.	.	1.71	2.41
TOTAL CLADOCERA	0.04	0.08	67.99	28.30
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	0.04	0.02	28.81	12.27
<i>Skistodiptomus oregonensis</i>	0.03	0.01	20.37	14.57
<i>Epischura nevadensis</i>	0.01	0.01	8.44	2.30
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.30	0.16	232.18	100.58
HARPACTICOIDA:				
<i>Bryocamptus sp.</i>	0.02	0.02	18.59	2.19
TOTAL COPEPODA	0.40	0.22	308.38	122.94
TOTAL COPEPODA NAUPLII	6.58	3.90	5238.06	1898.59
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	0.27	0.21	242.01	43.30
<i>Brachionus quadridentatus</i>	0.49	0.41	451.72	55.17
<i>Conochilus unicornis</i>	0.01		3.41	4.82
<i>Euchlanis triquetra</i>	0.01		3.41	4.82
<i>Filinia terminalis</i>	0.15	0.09	118.57	39.56
<i>Kellicottia longispina</i>	2.30	1.80	2051.06	352.48
<i>Keratella sp.</i>	5.74	3.71	4724.89	1429.10
<i>Mnostyla lunaris</i>		0.01	5.03	7.12
<i>Notholca sp.</i>	1.22	0.59	905.25	440.32
<i>Notholca (Agnotholca) foliacea</i>		0.01	6.74	4.71
<i>Polyarthra sp.</i>	1.42	1.24	1329.60	129.37
<i>Synchaeta pectinata</i>	1.72	1.08	1400.72	457.72
<i>Trichotria tetractis</i>	0.04	0.02	30.51	14.68
TOTAL ROTATORIA	13.37	9.18	11272.91	2959.50
TOTAL ZOOPLANKTON	20.39	13.38	16887.34	4956.80
. = TRACE				
ES = entire sample counted				

Table E13. Mean monthly zooplankton density in Lake Roosevelt at Hunters for August 1989.

	SS #1	SS #2	AVERAGE	±S.D.
	#/LITER	#/LITER	#/CUB.METER	
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.02	0.11	62.66	61.70
<i>Chydorus sphaericus</i>	0.08	0.02	48.70	38.81
<i>Daphnia ambigua</i>	0.02	0.02	20.15	1.57
<i>Daphnia galeata mendota</i>	8.19	8.86	8525.45	479.90
<i>Daphnia schodleri</i>	0.63	0.62	622.37	8.30
<i>Daphnia retrocurva</i>	2.87	2.32	2595.92	394.20
<i>Daphnia sp. immature</i>	2.42	2.17	2293.06	176.35
<i>Daphnia thorata</i>	1.39	1.06	1226.33	231.09
<i>Leptodora kindti</i>	0.03	0.04	34.74	4.98
<i>Sida crystallina</i>		0.02	10.63	15.03
TOTAL CLADOCERA	15.65	15.24	15440.01	289.90
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiatomus ashlandi</i>	0.25	0.28	261.92	20.42
<i>Skistodiatomus oregonensis</i>	0.08	0.13	101.85	36.35
<i>Epischura nevadensis</i>	0.08	0.06	69.96	8.75
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.86	0.89	874.77	25.58
<i>Mesocyclops edax</i>	0.02		9.52	13.46
COPEPODID	0.11	0.04	78.37	50.71
TOTAL COPEPODA	1.39	1.40	1396.40	9.42
TOTAL COPEPODA NAUPLII	8.41	9.06	8735.34	453.65
ROTATORIA SPECIES				
<i>Conochilus unicornis</i>	0.08	0.04	59.33	23.78
<i>Kellicottia longispina</i>	1.14	0.68	911.26	326.67
<i>Keratella sp.</i>	12.47	15.01	13739.02	1795.32
<i>Pleosoma truncatum</i>	14.37	17.13	15753.82	1952.37
<i>Polyarthra sp.</i>	6.85	9.31	8082.36	1737.88
<i>Synchaeta pectinata</i>	6.80	6.27	6533.82	371.31
<i>Trichocerca sp.</i>	0.89	0.77	830.03	91.54
<i>Trichotria tetractis</i>	0.04		19.04	26.92
TOTAL ROTATORIA	42.64	49.21	45928.68	4645.35
CHIRONOMIDAE SPECIES	*	.	2.40	0.38
TOTAL ZOOPLANKTON	68.09	74.91	71500.43	4822.50
. = TRACE				
ES = entire sample counted				

Table E14. Mean monthly zooplankton density in Lake Roosevelt at Hunters for October 1989.

CLADOCERA SPECIES	SS #1 #/LITER	SS #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Alona guttata</i>	0.01		6.85	
<i>Bosmina longirostris</i>	0.33		332.47	
<i>Chydorus sphaericus</i>			3.43	
<i>Daphnia ambigua</i>	0.11		109.68	
<i>Daphnia galeata mendota</i>	0.78		781.46	
<i>Daphnia schodleri</i>	3.25		3249.25	
<i>Daphnia retrocurva</i>	0.55		548.40	
<i>Daphnia sp. immature</i>	0.38		377.02	
<i>Daphnia thorata</i>	0.40		397.59	
<i>Diaphanosoma birgei</i>	0.02		23.99	
<i>Leptodora kindti</i>	0.01		8.23	
<i>Sida crystallina</i>	0.02		23.99	
<i>Simncephalus serrulatus</i>	.		3.43	
TOTAL CLADOCERA	5.86		5865.79	
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandis</i>	0.28		284.48	
<i>Skistodiptomus oregonensis</i>	0.11		106.25	
<i>Epischura nevadensis</i>	0.04		44.56	
CYCLOPOIDA:				
<i>Cyclops bicuspidatus thomasi</i>	0.34		339.32	
<i>Mesocyclops edax</i>	0.03		27.42	
COPEPODID	0.12		123.39	
TOTAL COPEPODA	0.93		925.42	
TOTAL COPEPODA NAUPLII	0.95		945.98	
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	0.01		13.71	
<i>Kellicottia longispina</i>	0.34		342.75	
<i>Keratella sp.</i>	0.04		37.70	
<i>Lecane sp.</i>	.		3.43	
<i>Polyarthra sp.</i>	0.76		764.33	
<i>Synchaeta pectinata</i>	0.11		106.25	
TOTAL ROTATORIA	1.26		1268.17	
CHIRONOMIDAE SPECIES	.		0.82	
TOTAL ZOOPLANKTON	9.0		9005.36	
. = TRACE				
ES = entire sample counted				

Table E15. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for August 1988.

	SS#1 # / l	SS#2 #I I	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.03	0.02	24.78	1.89
<i>Daphnia galeata mendota</i>	4.49	2.36	3423.32	1509.81
<i>Daphnia schodleri</i>	3.39	2.52	2957.05	618.36
<i>Daphnia retrocurva</i>	3.34	3.20	3270.82	100.78
<i>Daphnia sp. Immature</i>	0.86	0.63	747.26	161.75
<i>Diaphanosoma brachyurum</i>	0.42	0.52	466.72	69.24
<i>Diaphanosoma birgei</i>	0.05	0.02	37.83	20.35
<i>Leptodora kindti</i>	0.06	0.04	49.34	11.46
TOTAL CLADOCERA	12.64	9.31	10977.12	2354.70
ES	0.06	0.04	49.34	11.46
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	5.33	2.97	4145.80	1669.68
<i>Skistodiptomus oregonensis</i>	3.76	2.52	3139.82	876.84
<i>Epischura nevadensis</i>	0.55	0.32	432.38	163.96
CYCLOPOIDA:				
<i>Cyclops bicuspidatus thomasi</i>	9.22	7.10	8159.58	1495.18
<i>Mesocyclops edax</i>	6.95	5.51	6226.83	1016.01
Copepodid	0.55	0.67	608.18	84.66
TOTAL COPEPODA	26.34	19.08	22712.58	5137.01
TOTAL COPEPODA NAUPLII	0.86	0.25	553.88	435.23
TOTAL ZOOPLANKTON	39.84	28.64	34243.58	7919.60
ES = entire sample counted.				

Table E16. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for September 1988.

	SS #1 # 11	SS #2 # 11	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
Bosmina longirostris	0.15	0.29	221.94	102.42
Daphnia galeata mendota	0.02	0.05	35.21	19.59
Daphnia schodleri	6.62	6.30	6462.91	224.43
Daphnia sp. immature	0.53	0.61	573.63	56.04
Leptodora kindti	.	*	1.41	0.78
TOTAL CLADOCERA	7.33	7.26	7295.10	49.50
ES	.	*	1.41	0.78
COPEPODA SPECIES				
CALANOIDA:				
Leptodiatomus ashlandi	1.30	1.25	1277.00	36.72
Skistodiatomus oregonensis	3.37	3.51	3441.34	93.98
Epischura nevadensis	0.06	0.07	68.84	6.72
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	1.47	1.23	1350.17	174.90
Mesocyclops edax	3.14	2.31	2722.87	589.80
Copepodid	0.11	0.05	77.93	40.83
TOTAL COPEPODA	9.46	8.41	8938.14	741.54
TOTAL COPEPODA NAUPLII	0.19	0.32	255.57	89.56
TOTAL ZOOPLANKTON	16.98	15.99	16488.81	700.00
ES=Entire Sample				
*=TRACE				

Table E17. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for October 1988.

	SS #1 # 11	SS #2 # 1 1	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.48	0.12	303.06	256.55
<i>Daphnia galeata mendota</i>	0.09	0.05	70.47	30.84
<i>Daphnia schodleri</i>	5.77	8.32	7044.18	1805.50
<i>Daphnia</i> sp. immature	0.44	0.34	389.48	69.09
<i>Leptodora kindti</i>	0.01	0.01	9.73	0.70
TOTAL CLADOCERA	6.79	8.84	7816.92	1449.57
ES	0.01	0.01	9.73	0.70
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	1.45	1.22	1334.96	167.52
<i>Skistodiptomus oregonensis</i>	11.21	9.88	10545.00	943.31
<i>Epischura nevadensis</i>	0.05		23.07	32.63
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	2.21	2.36	2287.37	102.74
<i>Mesocyclops edax</i>	2.86	3.16	3011.79	213.70
Copepodid	2.84	1.56	2197.37	905.44
TOTAL COPEPODA	20.62	18.17	19399.55	1732.46
TOTAL COPEPODA NAUPLII	26.39	18.73	22563.09	5415.01
ROTATORIA SPECIES				
<i>Kellicottia longispina</i>	0.12		57.68	81.56
<i>Keratella</i> sp.	0.23	0.27	249.17	26.11
<i>Polyarthra</i> sp.	0.95	0.78	862.22	118.31
<i>Trichocerca</i> sp.	2.45	1.14	1794.47	920.59
TOTAL ROTATORIA	3.74	2.19	2963.52	1094.35
TOTAL ZOOPLANKTON	57.54	47.93	52743.08	6192.25
ES = entire sample counted.				
● =TRACE				

Table E18. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for November 1988.

	SS #1 # / I	SS #2 # I I	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.49	0.16	326.84	236.19
<i>Chydorus sphaericus</i>		0.01	7.27	10.27
<i>Daphnia schodleri</i>	1.83	2.59	2208.25	534.71
<i>Daphnia</i> sp. immature	0.35	0.33	341.40	10.19
TOTAL CLADOCERA	2.67	3.09	2883.75	298.60
COPEPODA SPECIES				
CALANOIDA:				
<i>Skistodiatoms oregonensis</i>	2.41	2.32	2367.98	61.06
<i>Epischura nevadensis</i>	0.17		87.15	123.25
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	2.79	2.25	2520.48	379.47
<i>Mesocyclops edax</i>		0.26	130.77	184.94
TOTAL COPEPODA	5.37	4.84	5106.37	378.84
TOTAL COPEPODA NAUPLII	8.05	5.48	6755.07	1826.86
ROTATORIA SPECIES				
<i>Asplanchna</i> sp.	0.12	0.10	108.96	10.25
<i>Kellicottia longispina</i>	0.06	0.01	36.32	30.81
<i>Keratella</i> sp.	0.26	0.03	145.26	164.32
<i>Polyarthra</i> sp.	0.23	0.10	167.06	92.41
TOTAL ROTATORIA	0.67	0.25	457.58	297.79
TOTAL ZOOPLANKTON	16.76	13.64	15202.77	2206.20
ES = entire sample counted.				

Table E19. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for December 1988.

	SS #1 # 1 1	SS #2 # 1 1	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
Bosmina longirostris	0.15	0.15	145.20	
Chydorus sphaericus		0.01	6.05	8.56
Daphnia schodleri	2.11	2.11	2105.40	
TOTAL CLADOCERA	2.25	2.26	2256.65	8.56
COPEPODA SPECIES				
CALANOIDA:				
Skistodiptomus oregonensis	2.64	2.80	2716.45	111.23
Epischura nevadensis	0.01		6.05	8.56
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	2.20	2.18	2190.10	17.11
TOTAL COPEPODA	4.85	4.97	4912.60	85.56
TOTAL COPEPODA NAUPLII	7.41	8.24	7822.65	590.36
ROTATORIA SPECIES				
Asplanchna sp.	1.60	1.85	1724.25	179.68
Brachionus quadridentatus	0.05	0.06	54.45	8.56
Euchlanis triquetra	0.11		54.45	77.00
Kellicottia longispina	0.18	0.85	514.25	470.58
Keratella sp.	1.10	1.82	1458.05	504.80
Polyarthra sp.	0.39	0.41	399.30	17.11
TOTAL ROTATORIA	3.42	4.99	4204.75	1103.72
TOTAL ZOOPLANKTON	17.93	20.46	19196.65	1788.2
Es = entire sample counted				

Table E20. Monthly mean zooplankton density in Lake
Roosevelt at Porcupine Bay for January 1989.

	SS#1 # / l	SS#2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>		0.03	14.06	19.88
<i>Chydorus sphaericus</i>	0.03		14.06	19.88
<i>Daphnia schoedleri</i>	0.08	0.10	91.39	9.94
TOTAL CLADOCERA	0.11	0.13	119.51	9.94
COPEPODA SPECIES				
CALANOIDA:				
<i>Skistodiaptomus oregonensis</i>	0.06	0.01	35.15	29.83
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.42	0.58	499.13	109.36
<i>Mesocyclops edax</i>		0.01	7.03	9.94
TOTAL COPEPODA	0.48	0.60	541.31	89.48
TOTAL COPEPODA NAUPLII	1.49	1.22	1356.79	188.90
ROTATORIA SPECIES				
<i>Asplanchna sp.</i>	4.22	4.05	4133.64	119.30
<i>Brachionus quadridentatus</i>	1.01	1.11	1061.53	69.59
<i>Conochilus unicornis</i>	0.01		7.03	9.94
<i>Kellicottia longispina</i>	0.80	0.86	829.54	39.77
<i>Keratella sp.</i>	3.15	3.08	3114.29	49.71
<i>Notholca sp.</i>	0.03	0.17	98.42	99.42
<i>Polyarthra sp.</i>	0.69	0.69	688.94	
<i>Synchaeta pectinata</i>	0.72	0.39	555.37	228.66
TOTAL ROTATORIA	10.63	10.35	10488.76	198.84
TOTAL ZOOPLANKTON	12.71	12.30	12506.37	289.90
Es = entire sample counted.				

Table E21. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for February 1989.

	SS #1 # / I	SS #2 #II	AVERAGE # / m 3	±SD
COPEPODA SPECIES				
CALANOIDA:				
Skistodiaptomus oregonensis		0.03	14.53	20.55
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.12	0.06	87.18	41.10
TOTAL COPEPODA	0.12	0.09	101.71	20.55
TOTAL COPEPODA NAUPLII	0.67	0.94	806.42	195.21
ROTATORIA SPECIES				
Asplanchnasp.	3.33	3.57	3450.88	174.66
Brachionus quadridentatus	0.58	0.49	537.61	61.65
Filinia terminalis		0.01	7.27	10.27
Kellicottialongispina	0.94	1.06	1002.57	82.19
Keratella sp.	0.39	0.39	392.31	
Notholca (Agnotholca) foliacea	0.25	0.33	290.60	61.65
Polyarthra sp.	0.89	0.92	900.86	20.55
Synchaeta pectinata	4.23	7.31	5768.41	2178.14
TOTAL ROTATORIA	10.61	14.09	12350.50	2465.82
TOTAL ZOOPLANKTON	11.40	15.12	13258.63	2630.40
Es = entire sample counted.				

Table E22. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for March 1989.

	SS#1	SS#2	AVERAGE	
	#II	# / I	# / m 3	±SD
CLADOCERA SPECIES				
Bosmina longirostris		0.01	7.03	9.94
TOTAL CLADOCERA		0.01	7.03	9.94
COPEPODA SPECIES				
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.45	0.32	386.65	89.48
TOTAL COPEPODA	0.45	0.32	386.65	89.48
TOTAL COPEPODA NAUPLII	0.98	0.63	808.45	248.55
ROTATORIA SPECIES				
Asplanchna sp.	1.69	2.01	1848.89	228.66
Brachionus quadridentatus	1.17	0.56	864.69	427.50
Filinia terminalis	0.01		7.03	9.94
Kellicottia longispina	0.10	0.03	63.27	49.71
Keratella sp.	0.08	0.11	98.42	19.88
Mnostyla lunaris	0.01		7.03	9.94
Notholca sp.	0.18	0.18	182.78	
Notholca (Agnotholca) foliacea	0.01		7.03	9.94
Polyarthra sp.	1.21	0.59	899.84	437.44
Synchaeta pectinata	1.86	1.25	1553.63	427.50
Testudinella patina f. triloba	0.01	0.03	21.09	9.94
Trichocerca sp.	0.01		7.03	9.94
TOTAL ROTATORIA	6.36	4.77	5560.73	1123.44
TOTAL ZOOPLANKTON	7.79	5.73	6762.86	1456.60

Table E23. Monthly zooplankton density in Lake Roosevelt at Porcupine Bay for April 1989.

	SS #1 # / l	SS #2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
COPEPODA SPECIES				
CALANOIDA:				
Leptodiaptomus ashlandi	0.09	0.03	58.12	41.10
Skistodiaptomus oregonensis	0.10	0.03	65.39	51.37
CYCLOPOIDA:				
Cyclops bicuspidatus thomasi	5.06	3.23	4141.05	1294.56
TOTAL COPEPODA	5.25	3.28	4264.56	1387.03
TOTAL COPEPODA NAUPLII	1.66	1.73	1692.75	51.37
ROTATORIA SPECIES				
Asplanchna sp.	0.39	0.51	450.43	82.19
Erachionus quadridentatus	1.34	1.47	1402.15	92.47
Conochilus unicornis	0.06	0.09	72.65	20.55
Epiphanes sp.	0.01		7.27	10.27
Euchlanis triquetra	0.01	0.03	21.80	10.27
Filinia terminalis	0.04	0.04	43.59	
Kellicottia longispina	0.20	0.25	225.22	30.82
Keratella sp.	0.49	0.58	537.61	61.65
Notholca sp.	0.61	0.39	501.29	154.11
Notholca (Agnotholca) foliacea	0.07	0.10	87.18	20.55
Polyarthra sp.	0.44	0.58	508.55	102.74
Synchaeta pectinata	0.44	0.41	421.37	20.55
Trichocerca sp.	0.03	0.01	21.80	10.27
TOTAL ROTATORIA	4.14	4.46	4300.88	226.03
TOTAL ZOOPLANKTON	11.05	9.47	10258.19	1117.20
ES = entire sample counted				

Table E24. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for May 1989.

	SS#1 # / l	SS#2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
Bosmina longirostris	0.10	0.08	89.75	8.33
Chydorus sphaericus	0.02		7.97	11.27
Daphnia galeata mendota	0.02		7.97	11.27
Leptodora kindti	.		0.80	1.12
TOTAL CLADOCERA	0.14	0.08	106.49	42.40
ES	*		0.80	1.12
COPEPODA SPECIES				
CYCLOPOIDA:				
Diaacyclops bicuspidatus thomasi	3.86	3.63	3743.71	160.90
Mesocyclops edax	0.03	0.04	33.91	2.87
TOTAL COPEPODA	3.89	3.67	3777.62	158.02
TOTAL COPEPODA NAUPLII	6.36	6.28	6318.79	58.36
ROTATORIA SPECIES				
Asplanchna sp.	3.87	3.86	3865.49	11.21
Brachionus quadridentatus	3.22	3.00	3107.44	159.01
Collotheca mutabilis	0.05	0.01	29.90	25.34
Conochilus unicornis	0.03	0.01	21.93	14.07
Euchlanis triquetra	0.05	0.06	53.86	8.54
Kellicottia longispina	0.35	0.36	355.04	6.17
Keratella sp.	1.85	1.82	1835.00	19.86
Notholca sp.	0.29	0.28	281.23	8.05
Polyarthra sp.	1.24	1.11	1178.73	91.34
Synchaeta pectinata	33.55	33.26	33405.09	210.17
TOTAL ROTATORIA	44.50	43.76	44133.71	524.35
TOTAL ZOOPLANKTON	54.89	53.79	54335.0	772.72
ES = entire sample counted.				
● =TRACE				

Table E25. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for June 1989.

	SS #1 # / l	SS #2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	1.57	1.25	1410.04	222.94
<i>Chydorus sphaericus</i>	0.03	0.04	37.24	4.47
<i>Daphnia galeata mendota</i>	1.70	3.76	2730.60	1451.83
<i>Daphnia schodleri</i>	0.37	1.94	1157.04	1106.14
<i>Daphnia retrocurva</i>	2.15	4.40	3275.32	1595.63
<i>Daphnia thorata</i>	0.51	1.33	922.20	581.24
<i>Diaphanosoma birgei</i>	0.07	0.04	54.28	19.63
<i>Leptodora kindti</i>	0.35	0.59	473.19	171.83
TOTAL CLADOCERA	6.75	13.35	10059.91	4666.9
ES	0.35	0.59	473.19	171.83
COPEPODA SPECIES				
CALANOIDA:				
<i>Skistodiptomus oregonensis</i>	0.20	0.44	324.44	169.65
<i>Epischura nevadensis</i>	0.85	1.21	1032.00	254.56
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	6.71	16.40	11558.08	6850.90
<i>Mesocyclops edax</i>	0.10	0.04	71.32	43.73
TOTAL COPEPODA	7.87	18.10	12985.84	7231.38
TOTAL COPEPODA NAUPLII	13.56	27.67	20618.92	9977.39
ROTATORIA SPECIES				
<i>Asplanchna sp.</i>	15.06	12.04	13551.28	2138.40
<i>Brachionus quadridentatus</i>	0.07	0.04	54.28	19.63
<i>Euchlanis triquetra</i>	0.10	0.08	91.52	15.16
<i>Filinia terminalis</i>	0.44	0.44	443.72	0.96
<i>Kellicottia longispina</i>	7.67	9.62	8641.60	1376.88
<i>Keratella sp.</i>	26.96	31.92	29436.64	3506.34
<i>Lecane sp.</i>	0.37	0.36	369.24	7.98
<i>Notholca sp.</i>	1.09	0.77	929.08	228.37
<i>Notholca (Agnotholca) foliacea</i>	0.75	0.81	778.88	41.18
<i>Polyarthra sp.</i>	31.52	32.32	31922.00	562.86
<i>Synchaeta pectinata</i>	69.42	95.02	82220.88	18101.82
<i>Trichocerca sp.</i>	0.61	0.69	650.12	51.87
<i>Trichotria tetractis</i>	0.10	0.08	91.52	15.16
TOTAL ROTATORIA	154.18	184.18	169180.76	21217.22
TOTAL ZOOPLANKTON	182.36	243.3	212845.43	4309.11
ES = entire sample counted.				

Table E26. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for July 1989.

	SS #1 # / l	SS #2 # l l	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.09	0.10	92.75	5.52
<i>Daphnia galeata mendota</i>	1.87	1.74	1802.67	89.05
<i>Daphnia schodleri</i>	1.49	1.06	1275.61	300.46
<i>Daphnia retrocurva</i>	3.58	4.06	3817.56	341.88
<i>Daphnia sp. immature</i>	2.29	2.76	2525.91	336.98
<i>Daphnia thorata</i>	0.76	0.73	744.84	14.57
<i>Diaphanosoma birgei</i>	0.02		11.11	15.70
<i>Leptodora kindti</i>	0.34	0.33	337.05	3.29
TOTAL CLADOCERA	10.44	10.78	10607.5	240.40
ES	0.34	0.33	337.05	3.29
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.64	0.77	708.65	91.29
<i>Skistodiaptomus oregonensis</i>	0.42	0.39	404.30	25.02
<i>Epischura nevadensis</i>	0.09	0.23	160.40	101.20
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	5.73	5.95	5841.91	158.01
<i>Mesocyclops edax</i>	0.40	0.39	393.19	9.32
TOTAL COPEPODA	7.28	7.73	7508.44	316.16
TOTAL COPEPODA NAUPLII	23.12	20.03	21573.25	2188.30
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	0.04	0.02	31.88	17.74
<i>Kellicottia longispina</i>	6.51	7.29	6897.47	551.46
<i>Keratella sp.</i>	28.58	31.04	29814.13	1739.28
<i>Polyarthra sp.</i>	6.15	3.75	4951.10	1698.58
<i>Synchaeta pectinata</i>	0.47	0.21	339.52	179.45
<i>Trichocerca sp.</i>	0.04	0.02	31.88	17.74
<i>Trichotria tetractis</i>		0.02	9.67	13.67
TOTAL ROTATORIA	41.80	42.35	42075.63	390.90
TOTAL ZOOPLANKTON	82.64	80.89	81764.82	1237.40
ES = entire sample counted.				

Table E27. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for August 1989.

	SS #1 #II	SS #2 #I I	AVERAGE # / m 3	±SD
CLADOCERA SPECIES				
<i>Alona guttata</i>	0.01		5.46	7.72
<i>Bosmina longirostris</i>	0.21	0.23	220.88	18.94
<i>Daphnia galeata mendota</i>	2.09	2.73	2409.44	457.80
<i>Daphnia schodleri</i>	7.87	10.91	9389.95	2144.83
<i>Daphnia retrocurva</i>	0.33	0.44	385.06	81.25
<i>Daphnia sp. immature</i>	0.90	1.28	1085.46	268.72
<i>Daphnia thorata</i>	0.07	0.08	71.81	8.89
<i>Diaphanosona brachyurum</i>	0.12	0.18	151.17	43.90
<i>Leptodora kindti</i>	0.03	0.02	28.28	5.39
TOTAL CLADOCERA	11.63	15.87	13747.51	2998.10
ES	0.03	0.02	28.28	5.39
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	1.37	1.72	1541.49	249.59
<i>Skistodiptomus oregonensis</i>	1.30	1.74	1521.75	314.33
<i>Epischura nevadensis</i>	0.74	0.99	865.85	174.36
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomas</i>	8.98	12.42	10696.28	2432.50
<i>Mesocyclops edax</i>	1.31	1.90	1605.30	417.04
Copepodid	2.58	3.62	3097.65	736.13
TOTAL COPEPODA	16.27	22.39	19328.30	4323.96
TOTAL COPEPODA NAUPLII	28.67	39.36	34011.18	7560.64
ROTATORIA SPECEIS				
<i>Conochilus unicornis</i>	0.13	0.18	156.63	36.18
<i>Kellicottia longispina</i>	0.96	1.41	1183.29	314.42
<i>Keratella sp.</i>	0.19	0.29	235.99	71.20
<i>Polyarthra sp.</i>	0.33	0.49	411.09	118.07
<i>Synchaeta pectinata</i>		0.03	13.02	18.41
<i>Trichocerca sp.</i>	0.10	0.13	114.22	22.54
TOTAL ROTATORIA	1.70	2.52	2114.22	580.81
TOTAL ZOOPLANKTON	58.27	80.14	69201.21	1546.44
ES = entire sample counted.				

Table E28. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for September 1989.

	SS#1 # / l	SS#2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.23		229.59	
<i>Daphnia galeata mendota</i>	1.17		1173.46	
<i>Daphnia schodleri</i>	9.82		9821.35	
<i>Daphnia</i> sp. Immature	1.12		1 122.44	
<i>Daphnia thorata</i>	0.20		204.08	
<i>Diaphanosoma birgei</i>	0.54		535.71	
TOTAL CLADOCERA	13.09		13086.63	
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	6.61		6607.09	
<i>Skistodiptomus oregonensis</i>	5.71		5714.24	
<i>Epischura nevadensis</i>	0.05		51.02	
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	6.56		6556.07	
<i>Mesocyclops edax</i>	1.73		1734.68	
Copepodid	12.98		12964.59	
TOTAL COPEPODA	33.65		33647.69	
TOTAL COPEPODA NAUPLII	31.40		31402.81	
ROTATORIA SPECIES				
<i>Conochilus unicornis</i>	0.15		153.06	
<i>Kellicottia longispina</i>	0.10		102.04	
<i>Keratella</i> sp.	0.23		229.59	
<i>Pleuroxus denticulatus</i>	0.03		25.51	
<i>Polyarthra</i> sp.	6.10		6096.89	
<i>Trichocerca</i> sp.	0.28		280.61	
TOTAL ROTATORIA	6.89		6887.70	
TOTAL ZOOPLANKTON	85.03		85024.83	
ES = entire sample counted.				

Table E29. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for October 1989.

	SS#1	SS#2	AVERAGE	±SD
	#11	#11	# / m ³	
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.15	0.12	136.32	23.42
<i>Chydorus sphaericus</i>		0.01	4.99	7.06
<i>Daphnia galeata mendota</i>	0.09	0.02	54.57	48.95
<i>Daphnia schodleri</i>	5.45	6.61	6029.74	816.03
<i>Daphnia</i> sp. immature	16.61	15.59	16100.86	724.22
<i>Diaphanosona brachyurum</i>	0.14	0.25	194.82	77.33
<i>Leptodora kindti</i>	0.01	0.01	7.66	0.74
TOTAL CLADOCERA	22.45	22.61	22528.96	113.10
ES	0.01	0.01	7.66	0.74
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	5.82	4.42	5121.66	990.68
<i>Skistodiptomus oregonensis</i>	7.57	8.69	8130.07	795.51
<i>Epischura nevadensis</i>	.	.	0.88	0.17
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.78	0.75	762.82	20.25
<i>Mesocyclops edax</i>	2.31	1.93	2116.04	268.56
Copepodid	5.49	7.23	6358.23	1226.53
TOTAL COPEPODA	21.96	23.01	22488.82	742.55
TOTAL COPEPODA NAUPLII	16.61	15.59	16100.86	724.22
ES	*	.	0.88	0.17
ROTATORIA SPECIES				
<i>Conochilus unicornis</i>	0.04	0.06	49.05	15.32
<i>Kellicottia longispina</i>	0.04	0.03	34.08	5.85
<i>Keratella</i> sp.	0.46	0.42	438.90	27.92
<i>Polyarthra</i> sp.	7.86	5.87	6864.41	1408.80
<i>Trichocerca</i> sp.	0.09	0.12	104.47	21.62
TOTAL ROTATORIA	8.48	6.50	7490.91	1405.63
TOTAL ZOOPLANKTON	69.5	67.71	68609.55	1265.70
ES = entire sample counted.				
● =TRACE				

Table E30. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for November 1989.

	SS #1 # / l	SS #2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.10		101.40	
<i>Daphnia ambigua</i>	0.02		20.28	
<i>Daphnia schodleri</i>	0.47		473.20	
<i>Daphnia retrocurva</i>	0.01		6.76	
<i>Daphnia thorata</i>	0.01		6.76	
<i>Diaphanosona brachyurum</i>	0.01		6.76	
<i>Leptodora kindti</i>	.		0.14	
TOTAL CLADOCERA	0.62		615.30	
ES	.		0.14	
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiatomus ashlandi</i>	0.06		60.84	
<i>Skistodiatomus oregonensis</i>	0.11		114.92	
<i>Epischura nevadensis</i>	0.01		13.52	
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.56		561.08	
<i>Mesocyclops edax</i>	0.06		60.84	
Copepodid	0.12		121.68	
TOTAL COPEPODA	0.93		932.88	
TOTAL COPEPODA NAUPLII	2.33		2332.20	
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	0.03		27.04	
<i>Conochilus unicornis</i>	0.01		13.52	
<i>Kellicottia longispina</i>	3.56		3562.52	
<i>Keratella</i> sp.	0.34		344.76	
<i>Polyarthra</i> sp.	0.86		858.52	
<i>Synchaeta pectinata</i>	0.31		310.96	
<i>Trichocerca</i> sp.	0.09		87.88	
TOTAL ROTATORIA	5.21		5205.20	
TOTAL ZOOPLANKTON	9.09		9085.58	
ES = entire sample counted.				
● =TRACE				

Table E31. Monthly mean zooplankton density in Lake Roosevelt at Porcupine Bay for December 1989.

	SS #1 # / l	SS #2 # / l	AVERAGE # / m ³	±SD
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.25	0.36	305.16	80.41
<i>Daphnia ambigua</i>	0.01	0.02	12.65	4.38
<i>Daphnia schodleri</i>	0.74	0.58	658.87	108.17
<i>Daphnia</i> sp. immature	0.05	0.05	47.49	0.37
TOTAL CLADOCERA	1.04	1.01	1024.16	23.75
COPEPODA SPECIES				
CALANOIDA:				
<i>Diaptomus ashlandis</i>	0.60	0.48	540.86	85.97
<i>Diaptomus oregonensis</i>	0.12	0.23	176.19	73.60
<i>Episura nevadensis</i>	0.01	0.02	12.65	4.38
CYCLOPOIDA:				
<i>Cyclops bicuspidatus thomasi</i>	0.73	0.61	669.83	79.15
<i>Mesocyclops edax</i>	0.03	0.07	49.74	29.83
HARPACTICOIDA:				
<i>Bryocanptus</i> sp.				
Copepodid	1.23	1.02	1123.59	153.24
TOTAL COPEPODA	2.72	2.42	2572.66	210.57
TOTAL COPEPODA NAUPLII	5.62	5.00	5311.20	443.71
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	0.08	0.05	61.81	20.63
<i>Conochilus unicornis</i>	0.09	0.20	145.29	83.91
<i>Kellicottia longispina</i>	0.21	0.07	140.47	98.48
<i>Keratella</i> sp.	0.38	0.28	332.66	69.78
<i>Notholca</i> sp.	0.02		9.55	13.51
<i>Polyarthra</i> sp.	0.63	0.52	574.86	78.40
<i>Synchaeta pectinata</i>	2.43	1.93	2176.93	351.82
<i>Trichocerca</i> sp.	0.78	0.68	733.90	69.59
TOTAL ROTATORIA	4.61	3.74	4175.45	618.29
TOTAL ZOOPLANKTON	13.99	12.17	13083.67	1286.90

Table E32. Mean monthly zooplankton density in Lake Roosevelt at Little Falls Dam for August 1988.

CLADOCERA SPECIES	s s #1 ##/LITER	SS # 2#/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Alona guttata</i>	0.03		13.25	18.73
<i>Bosmina longirostris</i>	0.72	0.73	721.53	8.75
<i>Chydorus sphaericus</i>	0.21	0.25	231.93	28.25
<i>Daphnia galeata mendota</i>	1.35	1.88	1613.24	370.57
<i>Daphnia schodleri</i>	0.03		13.25	18.73
<i>Daphnia retrocurva</i>	5.06	5.07	5063.23	3.99
<i>Daphnia</i> sp. immature	0.26	0.45	356.39	129.32
<i>Leptodora kindti</i>	0.01	0.01	8.72	0.34
<i>Sida crystallina</i>	6.03		13.25	18.73
<i>Simocephalus serrulatus</i>	0.03		13.25	18.73
TOTAL CLADOCERA	7.73	8.39	8048.04	466.70
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiatomus ashlandi</i>	0.72	0.78	749.52	48.33
<i>Skistodiatomus oregonensis</i>	0.72	0.76	735.53	28.54
CYCLOPOIDA:				
<i>Diatomus bicuspidatus thomasi</i>	4.66	5.37	5018.46	502.71
<i>Mesocyclops edax</i>	5.75	6.47	6107.39	506.47
TOTAL COPEPODA	1184	13.38	12610.90	1086.06
TOTAL COPEPODA NAUPLII	0.45	0.48	463.11	17.97
TOTAL ZOOPLANKTON	20.02	22.25	21122.05	1576.80
* = TRACE				
ES = entire sample counted.				

Table E33. Mean monthly zooplankton density in Lake Roosevelt at Little Falls Dam for October 1988.

CLADOCERA SPECIES	s s #1 #/LITER	SS # 2#/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.83	0.62	726.95	147.78
<i>Chydorus sphaericus</i>	0.01	0.01	9.83	0.53
<i>Daphnia galeata mendota</i>	2.22	2.27	2242.82	31.80
<i>Daphnia schodleri</i>	0.26	0.24	250.00	7.22
TOTAL CLADOCERA	3.32	3.14	3229.60	122.66
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	0.36	0.24	301.97	80.71
<i>Skistodiptomus oregonensis</i>	6.44	5.44	5941.23	710.58
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	2.14	1.71	1924.79	297.70
<i>Mesocyclops edax</i>	1.35	0.93	139.83	298.77
COPEPODID	1.22	0.67	946.15	385.62
TOTAL COPEPODA	11.51	9.00	10253.97	1773.38
TOTAL COPEPODA NAUPLII	0.61	0.56	587.68	37.41
ROTATORIA SPECIES				
<i>Asplanchna</i> spp.	0.03	0.04	34.58	8.82
<i>Conochilus unicornis</i>	0.05	0.03	38.93	11.76
<i>Euchlanis triquetra</i>		0.01	5.10	7.22
<i>Kellicottia longispina</i>	0.01	0.01	9.83	0.53
<i>Keratella</i> sp.	0.01	0.04	25.13	22.18
<i>Polyarthra</i> sp.	0.01	0.11	60.85	72.69
TOTAL ROTATORIA	0.10	0.24	174.41	99.68
TOTAL ZOOPLANKTON	15.54	12.94	14245.66	1838.50
. = TRACE				
ES = entire sample counted.				

Table E34. Mean monthly zooplankton density in Lake Roosevelt at Little Falls Dam for May 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
Bosmina longirostris	0.05	0.01	32.64	28.12
Chydorus sphaericus	0.01		6.57	9.28
Daphnia galeata mendota	0.01	0.01	9.75	4.77
Daphnia schodleri	0.03		13.13	18.57
Daphnia retrocurva	0.14		72.22	102.13
Sida crystallina	.		0.66	0.93
TOTAL CLADOCERA	0.25	0.02	134.97	162.60
COPEPODA SPECIES				
CALANOIDA:				
Leptodiaptomus ashlandi	0.03	0.01	16.32	14.06
CYCLOPOIDA:				
Cyclops bicuspidatus thomasi	0.84		420.17	594.21
COPEPODID		0.07	35.08	49.61
TOTAL COPEPODA	0.87	0.08	471.56	558.66
TOTAL COPEPODA NAUPLII	1.05	0.39	719.73	467.67
ROTATORIA SPECIES				
Asplanchna spp.	3.55	0.26	1903.32	2321.92
Brachionus quadridentatus	0.60	0.17	384.90	309.84
Euchlanis triquetra	0.09		45.96	64.99
Kellicottia longispina	0.87	0.24	554.47	441.41
Keratella sp.	18.13	3.21	10673.58	10549.04
Lecane sp.	0.33		164.13	232.11
Notholca sp.	0.33	0.10	211.96	164.47
Polyarthra sp.	9.65	2.32	5982.89	5187.11
Synchaeta pectinata	0.96	1.30	1129.76	242.19
Trichocerca sp.	0.25	0.08	163.00	122.29
TOTAL ROTATORIA	34.76	7.67	21213.99	19150.99
TOTAL ZOOPLANKTON	36.92	8.16	22540.25	20336.40
. = TRACE				
ES = entire sample counted.				

Table E35. Mean monthly zooplankton density in Lake Roosevelt at Little Falls Dam for August 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Alona guttata</i>		0.06	29.76	42.09
<i>Bosmina longirostris</i>	0.84	1.25	1044.30	290.91
<i>Chydorus sphaericus</i>	0.05		24.66	34.88
<i>Daphnia galeata mendota</i>	2.37	3.04	2701.76	472.29
<i>Daphnia schodleri</i>	0.10	0.06	79.09	27.67
<i>Daphnia retrocurva</i>	0.74	0.89	816.40	108.13
<i>Daphnia sp. immature</i>	0.39	0.77	584.22	268.12
<i>Daphnia thorata</i>	0.10	0.18	138.61	56.51
<i>Diaphanosoma birgei</i>	0.05	0.06	54.43	7.21
<i>Eurycercus lanellatus</i>	0.00		2.67	0.41
<i>Leptodora kindti</i>			3.27	0.43
TOTAL CLADOCERA	4.64	6.31	5479.17	1182.72
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	1.53	3.04	2282.46	1065.26
<i>Skistodiaptomus oregonensis</i>	0.44	1.13	787.46	485.78
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	9.87	15.65	12760.29	4093.40
<i>Mesocyclops edax</i>	2.12	2.74	2429.62	436.24
COPEPODID	0.49	1.25	871.65	535.07
TOTAL COPEPODA	14.45	23.81	19131.48	6615.76
TOTAL COPEPODA NAUPLII	24.27	40.18	32224.25	11249.11
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	0.54	0.60	568.93	37.21
<i>Epiphanes sp.</i>	0.05	0.06	54.43	7.21
<i>Euchlanis triquetra</i>		0.06	29.76	42.09
<i>Kellicottia longispina</i>	5.92	9.17	7543.08	2296.10
<i>Keratella sp.</i>	25.11	34.70	29905.45	6783.88
<i>Mnostyla lunaris</i>	0.10	0.12	108.85	14.42
<i>Polyarthra sp.</i>	4.39	3.87	4129.67	368.58
<i>Synchaeta pectinata</i>	0.15	0.12	133.52	20.46
<i>Trichocerca sp.</i>	10.21	11.49	10849.61	902.95
TOTAL ROTATORIA	46.47	60.18	53323.30	9694.81
CHIRONOMIDAE SPECIES	*	.	4.85	0.12
TOTAL ZOOPLANKTON	89.83	130.48	110158.2	28743.90
* = TRACE				
ES = entire sample counted.				

Table E36. Mean monthly zooplankton density in Lake Roosevelt at Little Falls Dam for October 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.68	0.71	694.58	23.70
<i>Daphnia galeata mendota</i>	0.02	0.00	11.69	16.53
<i>Daphnia schodleri</i>	2.20	2.70	2447.64	354.34
<i>Daphnia sp. immature</i>	0.09	0.10	95.80	3.27
<i>Diaphanosoma birgei</i>	0.02	0.02	23.95	0.82
<i>Leptodora kindti</i>	0.01	0.01	6.24	0.89
TOTAL CLADOCERA	3.02	3.54	3279.90	366.49
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	3.79	5.79	4787.66	1415.90
<i>Skistodiptomus oregonensis</i>	1.94	1.37	1656.80	400.47
<i>Epischura nevadensis</i>	0.02	0.02	23.95	0.82
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.91	0.86	885.04	37.50
<i>Mesocyclops edax</i>	0.79	1.01	900.19	149.20
COPEPODID	1.10	1.08	1088.91	13.62
TOTAL COPEPODA	8.55	10.13	9342.55	1114.33
TOTAL COPEPODA NAUPLII	10.63	9.76	10198.69	616.78
ROTATORIA SPECIES				
<i>Asplanchna spp.</i>	0.02	0.02	23.95	0.82
<i>Brachionus quadridentatus</i>	0.02	0.00	11.69	16.53
<i>Euchlanis triquetra</i>	0.07	0.05	59.59	14.89
<i>Kellicottia longispina</i>	0.16	0.10	130.86	46.31
<i>Keratella sp.</i>	0.33	0.34	335.32	11.44
<i>Lecane sp.</i>	0.02	0.00	11.69	16.53
<i>Mnostyla lunaris</i>	0.07	0.05	59.59	14.89
<i>Notholca sp.</i>	0.02	0.00	11.69	16.53
<i>Polyarthra sp.</i>	15.82	16.46	16141.33	449.24
<i>Trichocerca sp.</i>	0.07	0.07	71.85	2.45
TOTAL ROTATORIA	16.62	17.10	16857.55	338.27
CHIRONOMIDAE SPECIES	0.01	0.01	12.19	1.28
TOTAL ZOOPLANKTON	38.82	40.53	39678.69	1209.20
. = TRACE				
ES = entire sample counted				

Table E37. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for August 1988.

	SS #1	SS #2	AVERAGE	
	#/LITER	#/LITER	#/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.08	0.11	93.43	17.15
<i>Daphnia galeata mendota</i>	3.25	2.59	2922.88	465.45
<i>Daphnia schodleri</i>	1.73	1.40	1568.42	234.73
<i>Daphnia retrocurva</i>	1.00	0.02	7.54	10.66
<i>Daphnia sp. immature</i>	0.70	0.53	616.20	125.02
<i>Diaphanosoma birgei</i>	0.01	0.02	14.32	1.08
<i>Leptodora kindti</i>	.	.	4.43	0.13
TOTAL CLADOCERA	5.77	4.67	5227.22	792.00
ES	.	.	4.43	0.13
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	3.82	1.24	2528.83	1827.55
<i>Skistodiptomus oregonensis</i>	2.89	0.60	1744.68	1614.29
<i>Epischura nevadensis</i>	0.33	0.27	298.32	38.01
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	2.08	1.78	1919.52	198.10
<i>Mesocyclops edax</i>	1.00	0.02	7.54	10.66
HARPACTICOIDA:				
Copepodid	0.39	0.14	264.34	181.89
TOTAL COPEPODA	9.49	4.04	6763.22	3849.18
TOTAL COPEPODA NAUPLII	0.03	0.05	38.17	12.83
TOTAL ZOOPLANKTON	15.29	8.76	12026.61	4617.40
ES = Entire Sample				
* = TRACE				

Table E38. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for September 1988.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.06	0.10	81.66	31.31
<i>Daphnia galeata mendota</i>	0.02	0.04	30.68	15.33
<i>Daphnia schodleri</i>	3.91	4.92	4414.30	715.34
<i>Daphnia sp. immature</i>	0.22	0.23	223.30	7.16
<i>Diaphanosoma birgei</i>	0.06	0.06	60.90	1.95
<i>Leptodora kindti</i>	*	.	2.63	0.77
TOTAL CLADOCERA	4.27	5.36	4813.47	771.09
ES	*	*	2.63	0.77
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	1.13	1.31	1219.38	125.16
<i>Skistodiptomus oregonensis</i>	5.46	5.92	5686.30	325.69
<i>Epischura nevadensis</i>	0.28	0.23	253.06	34.93
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.58	0.69	630.22	77.58
<i>Mesocyclops edax</i>	0.18	0.25	213.84	49.89
Copepodid	0.34	0.27	303.58	47.66
TOTAL COPEPODA	7.96	8.66	8306.38	495.74
TOTAL COPEPODA NAUPLII	0.02	0.15	82.58	88.73
TOTAL ZOOPLANKTON	12.25	14.16	13202.43	1356.33
ES = entire sample counted.				
* = TRACE				

Table E39. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for October 1988.

	ss #1	ss #2	AVERAGE	
	#/LITER	# / L I T E R	#/CUB.METER ±S.D.	
CLADOCERA SPECIES				
<i>Daphnia galeata mendota</i>	0.80	0.38	588.14	300.07
<i>Daphnia schodleri</i>	10.43	7.36	8895.86	2168.43
<i>Daphnia</i> sp. Immature	0.20	0.16	178.37	30.71
TOTAL CLADOCERA	11.43	7.90	9662.37	2496.10
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	2.63	1.94	2284.26	483.37
<i>Skistodiptomus oregonensis</i>	8.95	7.17	8064.07	1257.95
<i>Epischura nevadensis</i>	0.03		12.51	17.68
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.95	0.81	882.48	96.03
<i>Mesocyclops edax</i>	0.50	0.28	391.09	154.31
Copepodid	3.68	0.85	2261.19	2001.51
TOTAL COPEPODA	16.73	11.06	13895.59	4010.85
TOTAL COPEPODA NAUPLII	9.15	8.21	8681.06	668.36
ROTATORIA SPECIES				
<i>Kellicottia longispina</i>	0.05	0.03	40.68	13.22
<i>Keratella</i> sp.	0.03	0.13	75.17	70.93
<i>Polyarthra</i> sp.	0.23	0.41	316.19	128.83
TOTAL ROTATORIA	0.30	0.56	432.03	186.55
TOTAL ZOOPLANKTON	37.61	27.73	32671.05	6986.20
ES=entire sample counted.				

Table E40. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for November 1988.

	ss #1	ss #2	AVERAGE	
	#/LITER	#/LITER	#/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.96	0.61	784.62	246.58
<i>Daphnia galeata mendota</i>	0.04	0.10	72.65	41.10
<i>Daphnia schodleri</i>	7.22	4.00	5608.58	2280.89
<i>Daphnia retrocurva</i>		0.01	7.27	10.27
<i>Daphnia sp. immature</i>	0.64	0.42	530.35	154.11
TOTAL CLADOCERA	8.86	5.14	7003.46	2630.21
COPEPODA SPECIES				
CALANOIDA:				
<i>Skistodiaptomus oregonensis</i>	1.02	0.49	755.56	369.87
<i>Epischura nevadensis</i>	0.01		7.27	10.27
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.57	0.52	544.88	30.82
<i>Mesocyclops edax</i>	0.01	0.04	29.06	20.55
TOTAL COPEPODA	1.61	1.06	1336.76	390.42
TOTAL COPEPODA NAUPLII	1.67	1.29	1482.06	267.13
ROTATORIA SPECIES				
<i>Asplanchna sp.</i>	0.10	0.04	72.65	41.10
<i>Brachionus quadridentatus</i>		0.01	7.27	10.27
<i>Kellicottia longispina</i>		0.03	14.53	20.55
<i>Keratella sp.</i>	0.09	0.12	101.71	20.55
<i>Polyarthra sp.</i>	0.07	0.12	94.45	30.82
TOTAL ROTATORIA	0.26	0.32	290.60	41.10
TOTAL ZOOPLANKTON	12.40	7.81	10112.88	3245.60
ES = entire sample counted.				

Table E41. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for December 1988.

	ss #1 #/LITER	s s #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.02	0.01	16.76	7.90
<i>Daphnia galeata mendota</i>		0.01	5.59	7.90
<i>Daphnia schodleri</i>	0.10	0.18	139.63	55.29
<i>Daphnia</i> sp. immature	0.09		44.68	63.19
TOTAL CLADOCERA	0.21	0.20	206.65	7.90
COPEPODA SPECIES				
CALANOIDA:				
<i>Skhtodiptomus oregonensis</i>	0.12	0.29	206.65	118.48
CYCLOPOIDA:				
<i>Diatylops bicuspidatus thomasi</i>	0.42	0.50	463.56	55.29
TOTAL COPEPODA	0.55	0.79	670.20	173.76
TOTAL COPEPODA NAUPLII	0.87	1.21	1038.81	236.95
ROTATORIA SPECIES				
<i>Asplanchna</i> sp.	0.23	0.42	329.52	134.27
<i>Brachionus quadridentatus</i>	0.01	0.07	39.10	39.49
<i>Kellicottia longispina</i>	0.44	0.30	368.61	94.78
<i>Keratella</i> sp.	1.44	0.50	971.79	663.46
<i>Polyarthra</i> sp.	0.18	0.06	117.29	86.88
TOTAL ROTATORIA	2.30	1.35	1826.30	671.36
TOTAL ZOOPLANKTON	3.93	3.55	3741.96	268.70
ES = entire sample counted.				

Table E42. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for January 1989.

	s s #1	ss #2	AVERAGE	
	#/LITER	#/LITER	#/CUB.METER	±S.D.
CLADOCERA SPECIES				
Bosmina longirostris	0.13	0.17	151.80	28.00
Daphnia schoedleri	0.07		33.00	46.67
TOTAL CLADOCERA	0.20	0.17	184.80	18.67
COPEPODA SPECIES				
CALANOIDA:				
Skistodiatomus oregonensis		0.01	6.60	9.33
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.17	0.08	125.40	65.34
HARPACTICOIDA:				
Bryocamptus sp.	0.03	0.01	19.80	9.33
TOTAL COPEPODA	0.20	0.11	151.80	65.34
TOTAL COPEPODA NAUPLII	0.40	0.54	468.60	102.67
ROTATORIA SPECIES				
Asplanchna sp.	0.22	0.16	191.40	46.67
Brachionus quadridentatus	0.17	0.05	112.20	84.00
Kellicottia longispina	0.79	0.87	831.60	56.00
Keratella sp.	0.38	0.40	389.40	9.33
Polyarthra sp.	0.08	0.08	79.20	
TOTAL ROTATORIA	1.65	1.56	1603.80	65.34
TOTAL ZOOPLANKTON	2.45	2.38	2409.0	49.50
ES = entire sample counted.				

Table E43. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for February 1989.

	ss #1 #/LITER	SS #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIE				
<i>Bosmina longirostris</i>		0.01	6.60	7.10
TOTAL CLADOCERA		0.01	6.60	7.10
COPEPODA SPECIES				
CALANOIDA:				
<i>Skistodiaptomus oregonensis</i>		0.01	6.60	7.10
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.11	0.09	99.00	9.33
<i>Mesocyclops edax</i>	0.04		19.80	28.00
TOTAL COPEPODA	0.15	0.11	125.40	28.00
TOTAL COPEPODA NAUPLII	0.71	0.61	660.00	74.67
ROTATORIA SPECIES				
<i>Asplanchna sp.</i>	1.49	1.28	1386.00	149.34
<i>Brachionus quadridentatus</i>	0.25	0.44	343.20	130.67
<i>Filinia (Tetramstix) opoliensis</i>		0.01	6.60	9.33
<i>Kellicottia longispina</i>	1.21	1.39	1300.20	121.34
<i>Keratella sp.</i>	0.46	0.26	363.00	140.01
<i>Notholca (Agnotholca) foliacea</i>	0.13	0.17	151.80	28.00
<i>Polyarthra sp.</i>	0.18	0.53	356.40	242.68
<i>Synchaeta pectinata</i>	1.21	2.46	1834.80	877.38
TOTAL ROTATORIA	4.95	6.53	5742.00	1120.06
TOTAL ZOOPLANKTON	5.81	7.26	6534.0	1025.30

ES = entire sample counted.

Table E44. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for March 1989.

	ss #1	ss #2	AVERAGE	
	#/LITER	#/LITER	#/CUB.METER	±S.D.
CLADOCERA SPECIES				
COPEPODA SPECIES				
CALANOIDA:				
Leptodiatomus ashlandi	0.03	0.04	35.15	9.94
Skistodiatomus oregonensis	0.06	0.13	91.39	49.71
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.24	0.27	253.08	19.88
TOTAL COPEPODA	0.32	0.44	379.62	79.54
TOTAL COPEPODA NAUPLII	1.20	0.96	1075.59	169.01
ROTATORIA SPECIES				
Asplanchna sp.	1.52	1.86	1687.20	238.61
Brachionus quadridentatus	0.52	0.44	478.04	59.65
Filinia (Tetramstix) opoliensis	0.01	0.01	14.06	
Kellicottia longispina	1.34	1.52	1427.09	129.24
Keratella sp.	0.22	0.13	175.75	69.59
Notholca sp.	0.17	0.04	105.45	89.48
Notholca (Agnotholca) foliacea	0.01	0.03	21.09	9.94
Polyarthra sp.	0.56	0.41	485.07	109.36
Synchaeta pectinata	0.55	0.45	499.13	69.59
Testudinella patina f. triloba	0.04		21.09	29.83
Trichocerca sp.	0.01		7.03	9.94
TOTAL ROTATORIA	4.96	4.88	4921.30	59.65
TOTAL ZOOPLANKTON	6.48	6.28	6376.21	141.40
ES = entire sample counted.				

Table E45. Monthly zooplankton density in Lake Roosevelt at Seven Bays for April 1989.

	SS #1	SS #2	AVERAGE	±SD
	#II	#II	# / m ³	
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.01		6.23	8.80
<i>Daphnia schodleri</i>		0.01	6.23	8.80
TOTAL CLADOCERA	0.01	0.01	12.45	
COPEPODA SPECIES				
CALANOIDA:				
<i>Ceptodiatomus ashlandi</i>	0.02	0.04	31.13	8.80
<i>Skistodiatomus oregonensis</i>	0.04	0.05	43.58	8.80
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.67	0.68	678.53	8.80
TOTAL COPEPODA	0.73	0.77	753.23	26.41
TOTAL COPEPODA NAUPLII	1.63	1.63	1830.95	
ROTATORIA SPECIES				
<i>Asplanchna sp.</i>	1.61	2.03	1817.70	299.32
<i>Brachionus quadridentatus</i>	1.13	1.16	1145.40	17.61
<i>Conochilus unicornis</i>	0.07	0.07	74.70	
<i>Epephanes sp.</i>	0.01		6.23	8.80
<i>Filinia terminalis</i>	0.05	0.05	49.80	
<i>Kellicottia longispina</i>	0.68	0.71	697.20	17.61
<i>Keratella sp.</i>	1.66	1.51	1581.15	105.64
<i>Notholca sp.</i>	0.77	0.80	784.35	17.61
<i>Notholca (Agnotholca) foliacea</i>	0.07	0.09	80.93	8.80
<i>Polyarthra sp.</i>	1.05	0.71	877.73	237.69
<i>Synchaeta pectinata</i>	0.78	1.18	983.55	281.71
TOTAL ROTATORIA	7.89	8.30	8098.73	290.51
TOTAL ZOOPLANKTON	10.26	10.71	10495.36	316.92
ES = entire sample counted.				

Table E46. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for May 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.15	0.10	127.10	35.71
<i>Daphnia galeata mendota</i>	0.03		15.24	21.55
<i>Daphnia schodleri</i>	0.06	0.07	64.42	4.92
<i>Daphnia retrocurva</i>	0.06	0.03	47.45	19.08
<i>Leptodora kindti</i>	0.01	0.01	8.88	2.96
TOTAL CLADOCERA	0.30	0.20	254.20	71.42
ES	0.01	0.01	8.88	2.96
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.15	0.17	161.05	12.30
<i>Skistodiaptomus oregonensis</i>	0.06	0.10	81.40	28.93
<i>Epischura nevadensis</i>	0.03		15.24	21.55
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	3.96	2.68	3321.58	904.42
<i>Mesocyclops edax</i>	0.09		45.71	64.64
TOTAL COPEPODA	4.30	2.95	3624.96	949.38
TOTAL COPEPODA NAUPLII	11.40	12.26	11825.87	608.23
ROTATORIA SPECIES				
<i>Asplanchna sp.</i>	12.34	8.69	10515.78	2580.34
<i>Brachionus quadridentatus</i>	2.68	2.14	2410.11	383.61
<i>Euchlanis triquetra</i>	0.12	0.10	111.87	14.16
<i>Filinia (Tetramastix) opoliensis</i>	0.24	0.34	291.63	67.70
<i>Kellicottia longispina</i>	6.40	4.58	5490.98	1283.72
<i>Keratella sp.</i>	117.77	97.61	107686.40	14255.48
<i>Lecane sp.</i>	0.12	0.10	111.87	14.16
<i>Notholca sp.</i>	3.56	3.06	3310.25	360.26
<i>Notholca (Agnotholca) foliacea</i>	0.30	0.41	356.05	72.62
<i>Polyarthra sp.</i>	12.40	11.41	11904.25	702.93
<i>Synchaeta pectinata</i>	5.30	4.85	5078.32	316.03
<i>Trichocerca sp.</i>	0.21	0.17	191.52	30.79
<i>Trichotria tetractis</i>		0.03	16.98	24.01
TOTAL ROTATORIA	161.46	133.49	147475.97	19777.16
TOTAL ZOOPLANKTON	177.46	148.90	163181.0	20195.00
ES = entire sample counted.				

Table E47. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for June 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
Bosmina longirostris	0.44	0.39	417.19	32.89
Chydorus sphaericus		0.04	21.89	30.95
Daphnia galeata mendota	1.04	2.06	1549.12	718.53
Daphnia schodleri	0.24	0.61	426.51	263.43
Daphnia retrocurva	1.56	1.58	1568.64	10.01
Daphnia sp. immature	0.40	0.35	375.28	35.53
Daphnia thorata	0.28	0.86	468.42	266.06
Diaphanosoma birgei	0.04	0.04	41.91	2.64
Leptodora kindti	0.39	0.42	403.00	21.81
TOTAL CLADOCERA	4.39	6.15	5271.96	1244.50
Es	0.39	0.42	403.00	21.81
COPEPODA SPECIES				
CALANOIDA:				
Skistodiaptomus oregonensis	0.24	0.22	229.55	15.13
Epischura nevadensis	0.44	0.79	614.15	245.66
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	4.64	6.39	5517.53	1234.45
TOTAL COPEPODA	5.33	7.40	6361.23	1464.99
TOTAL COPEPODA NAUPLII	8.21	9.37	8787.49	819.24
ROTATORIA SPECIES				
Asplanchna sp.	16.70	15.67	16183.17	726.21
Euchlanis triquetra	0.12		60.06	84.94
Filinia terminalis	0.24	0.22	229.55	15.13
Kellicottia longispina	11.69	11.60	11645.37	65.50
Keratella sp.	93.53	92.97	93250.46	400.19
Lecane sp.	0.24	0.22	229.55	15.13
Notholca sp.	0.80	0.74	772.45	40.10
Polyarthra sp.	62.90	53.57	58238.66	6596.15
Synchaeta pectinata	77.08	80.41	78741.25	2353.60
Trichocerca sp.	0.92	0.53	723.08	279.79
Trichotria tetractis	0.64	0.48	561.06	112.55
TOTAL ROTATORIA	264.86	256.40	260634.63	5982.08
TOTAL ZOOPLANKTON	282.40	278.90	281055.31	2474.90
ES = entire sample counted.				

Table E48. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for July 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER ±S.D.	
CLADOCERA SPECIES				
Bosmina longirostris	0.11	0.08	96.72	17.93
Chydorus sphaericus	0.02		10.94	15.47
Daphnia galeata mendota	5.08	4.64	4859.69	306.14
Daphnia schodleri	0.94	1.09	1016.68	107.25
Daphnia retrocurva	6.28	6.16	6217.75	87.42
Daphnia sp. immature	1.68	2.00	1840.36	220.04
Daphnia thorata	0.92	0.97	942.71	33.59
Diaphanosoma brachyurum	0.02		10.94	15.47
Leptodora kindti	0.26	0.26	262.16	1.23
TOTAL CLADOCERA	15.31	15.20	15257.95	804.54
ES	0.26	0.26	262.16	1.23
COPEPODA SPECIES				
CALANOIDA:				
Leptodiaptomus ashlandi	1.18	1.24	1210.56	41.06
Skistodiaptomus oregonensis	0.81	0.84	824.98	21.81
Epischura nevadensis	0.07	0.08	74.84	13.01
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	6.30	6.03	6165.66	192.03
Mesocyclops edax	0.11	0.08	96.72	17.93
TOTAL COPEPODA	8.47	8.28	8372.75	134.08
TOTAL COPEPODA NAUPLII	19.78	18.78	19281.23	704.69
ROTATORIA SPECIES				
Brachionus quadridentatus	0.02	0.02	21.45	0.62
Kellicottia longispina	12.76	14.98	13868.09	1572.67
Keratella sp.	29.84	30.95	30396.03	780.23
Notholca sp.	0.04	0.04	42.89	1.23
Pleosoma truncatum	0.02		10.94	15.47
Polyarthra sp.	5.91	5.57	5737.63	240.38
Synchaeta pectinata	0.04	0.06	53.40	13.63
Trichocerca sp.	0.07	0.06	64.34	1.85
TOTAL ROTATORIA	48.70	51.68	50194.74	2106.98
TOTAL ZOOPLANKTON	92.26	93.95	93106.67	1195.00
ES = entire sample counted.				

Table E49. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for August 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER ±S.D.	
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.01	0.01	7.70	1.25
<i>Chydorus sphaericus</i>	0.01	0.03	16.28	13.39
<i>Daphnia galeata mendota</i>	2.43	3.78	3103.19	950.37
<i>Daphnia schodleri</i>	0.48	1.84	1159.82	956.44
<i>Daphnia retrocurva</i>	0.09	0.13	108.62	28.40
<i>Daphnia sp. immature</i>	0.22	0.74	477.90	367.67
<i>Daphnia thorata</i>	0.52	0.75	632.01	161.86
<i>Diaphanosoma brachyurum</i>	0.02	0.02	18.80	2.31
<i>Leptodora kindti</i>	0.02	0.02	24.70	0.25
TOTAL CLADOCERA	3.8	7.32	5549.02	2481.94
Es	0.02	0.02	24.70	0.25
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	0.42	1.50	961.86	763.17
<i>Skistodiptomus oregonensis</i>	0.39	2.40	1395.29	1424.28
<i>Epischura nevadensis</i>	0.14	0.37	255.98	159.76
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	1.51	1.44	1476.63	49.77
<i>Mesocyclops edax</i>	0.05	0.06	57.27	3.95
HARPACTICOIDA:				
Copepodid	0.46	1.52	987.47	751.22
TOTAL COPEPODA	2.98	7.29	5134.49	3052.60
TOTAL COPEPODA NAUPLII	16.38	17.06	16717.55	480.12
ROTATORIA SPECIES				
<i>Kellicottia longispina</i>	0.30	0.47	385.77	121.81
<i>Keratella sp.</i>	0.20	0.22	213.69	13.28
<i>Mnostyla lunaris</i>	0.01	0.02	15.39	2.50
<i>Pleosoma truncatum</i>	0.03	0.05	42.77	12.32
<i>Polyarthra sp.</i>	0.29	0.67	477.63	270.98
<i>Synchaeta pectinata</i>	0.02	0.01	14.51	8.38
<i>Trichocerca sp.</i>	0.05	0.03	36.71	15.51
TOTAL ROTATORIA	0.91	1.47	1186.46	397.01
TOTAL ZOOPLANKTON	24.07	33.14	28587.52	6411.67
. = TRACE				
ES = entire sample counted				

Table E50. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for September 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER ±S.D.
CLADOCERA SPECIES			
Bosmina longirostris		0.06	56.86
Daphnia galeata mendota		0.03	28.43
Daphnia schodleri		2.05	2046.96
Daphnia sp. immature		0.45	454.88
Daphnia thorata		0.03	28.43
Diaphanosoma birgei		0.09	85.29
Leptodora kindti		.	1.14
TOTAL CLADOCERA	2.71		2701.99
ES		*	1.14
COPEPODA SPECIES			
CALANOIDA:			
Leptodiptomus ashlandi		2.36	2359.6
Skistodiptomus oregonensis		2.10	2103.82
Epischura nevadensis		0.09	85.29
CYCLOPOIDA:			
Diacyclops bicuspidatus thomasi		1.79	1791.09
Mesocyclops edax		0.23	227.44
Copepodid		0.74	739.18
TOTAL COPEPODA	7.31		7306.51
TOTAL COPEPODA NAUPLII	6.43		6425.18
ROTATORIA SPECIES			
Conochilus unicornis		0.23	227.44
Filinia terminalis		0.03	28.43
Kellicottia longispina		0.09	85.29
Keratella sp.		0.09	85.29
Pleuroxus denticulatus		0.03	28.43
Polyarthra sp.		0.77	767.61
Trichocerca sp.		0.03	28.43
TOTAL ROTATORIA	1.25		1250.92
TOTAL ZOOPLANKTON		17.7	17684.6
ES = entire sample counted.			
*=TRACE			

Table E51. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for October 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Bosmina longirostris</i>	0.12	0.07	92.12	32.47
<i>Daphnia galeata mendota</i>	0.01	0.09	49.33	58.14
<i>Daphnia schodleri</i>	3.88	4.50	4187.62	435.27
<i>Daphnia thorata</i>		0.01	2.66	3.76
<i>Diaphanosoma brachyurum</i>	0.09	0.06	74.47	22.56
TOTAL CLADOCERA	4.09	4.72	4406.20	442.14
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	1.79	1.79	1792.40	0.82
<i>Skistodiaptomus oregonensis</i>	3.68	3.59	3634.12	68.50
<i>Epischura nevadensis</i>	.	*	0.30	0.19
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.67	0.84	750.53	119.80
<i>Mesocyclops edax</i>	0.69	0.65	669.76	29.30
Copepodid	1.52	1.68	1600.91	113.43
TOTAL COPEPODA	8.35	8.54	8447.72	136.05
TOTAL COPEPODA NAUPLII	6.63	4.95	5786.46	1186.33
ES	*	*	0.30	0.19
ROTATORIA SPECIES				
<i>Conochilus unicornis</i>	0.02	0.05	38.93	20.18
<i>Filinia terminalis</i>	0.01		4.11	5.81
<i>Kellicottia longispina</i>	0.07	0.04	58.27	22.22
<i>Keratella sp.</i>	0.02	0.01	17.65	9.91
<i>Lecanosp.</i>	0.02	0.01	13.54	4.10
<i>Polyarthra sp.</i>	2.30	1.62	1959.44	483.89
<i>Trichocerca sp.</i>	0.01	0.01	9.43	1.71
TOTAL ROTATORIA	2.46	1.74	2101.37	504.04
TOTAL ZOOPLANKTON	21.53	19.95	20741.75	1117.20
ES = entire sample counted.				
● =TRACE				

Table E52. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for November 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
Bosmina longirostris	0.50	0.33	415.63	123.30
Daphnia ambigua	0.07	0.05	55.19	14.30
Daphnia schodleri	9.12	4.19	6654.16	3481.40
Daphnia sp. immature	0.52	0.19	357.80	232.78
Diaphanosoma brachyurum		0.01	3.22	4.55
Leptodora kindti	*	.	0.65	0.36
TOTAL CLADOCERA	10.21	4.77	7486.65	3856.69
ES	.	*	0.65	0.36
COPEPODA SPECIES				
CALANOIDA:				
Leptodiaptomus ashlandi	1.32	0.78	1049.15	381.71
Skistodiaptomus oregonensis	1.19	0.36	774.55	585.36
Epischura nevadensis	0.10	0.03	65.08	46.49
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	1.32	0.79	1055.59	372.60
Mesocyclops edax	0.05	0.03	38.96	9.55
HARPACTICOIDA:				
Copepodid	1.01	0.33	673.52	478.90
TOTAL COPEPODA	4.98	2.33	3656.84	1874.62
TOTAL COPEPODA NAUPLII	3.12	3.29	3206.09	119.85
ROTATORIA SPECIES				
Kellicottia longispina	1.48	3.84	2660.23	1675.07
Keratella sp.	0.10	0.17	135.96	44.52
Polyarthra sp.	0.32	1.20	762.13	625.30
Synchaeta pectinata	0.18	0.42	290.93	180.56
Trichocerca sp.	0.01	0.01	12.97	0.13
TOTAL ROTATORIA	2.08	5.65	3862.21	2525.32
TOTAL ZOOPLANKTON	20.39	16.04	18211.79	3075.90
ES = entire sample counted.				
*=TRACE				

Table E53. Mean monthly zooplankton density in Lake Roosevelt at Seven Bays for December 1989.

	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
CLADOCERA SPECIES				
<i>Alona guttata</i> sars		0.01	3.18	4.49
<i>Bosmina longirostris</i>	0.47	0.42	446.07	38.14
<i>Daphnia ambigua</i>	0.02	0.04	28.77	13.19
<i>Daphnia schodleri</i>	8.16	6.61	7387.58	1099.16
<i>Daphnia</i> sp. imature	0.55	0.42	484.95	93.13
<i>Daphnia thorata</i>		0.01	6.35	8.98
<i>Diaphanosona brachyurum</i>	0.01		3.24	4.58
<i>Leptodora kindti</i>	*	*	4.75	0.25
TOTAL CLADOCERA	9.21	7.51	8364.89	1202.10
ES	*	*	4.75	0.25
COPEPODA SPECIES				
CALANOIDA:				
<i>Diaptomus ashlandi</i>	0.92	0.50	707.73	300.42
<i>Diaptomus oregonensis</i>	0.58	0.27	424.95	223.80
<i>Epischura nevadensis</i>	0.04	0.04	41.66	3.94
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.80	0.43	611.25	262.75
<i>Mesocyclops edax</i>	0.06	0.02	38.69	27.77
HARPACTICOIDA:				
<i>Bryocanptus</i> sp.				
Copepodid	0.56	0.34	450.09	151.59
TOTAL COPEPODA	2.95	1.59	2274.37	962.39
TOTAL COPEPODA NAUPLII	2.88	1.70	2289.53	840.15
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>		0.01	6.35	8.98
<i>Kellicottia longispina</i>	3.51	3.59	3549.89	62.52
<i>Keratelia</i> sp.	0.17	0.01	87.42	114.64
<i>Polyarthra</i> sp.	0.19	0.11	151.11	52.06
<i>Synchaeta pectinata</i>	0.47	0.28	376.22	136.92
<i>Trichocerca</i> sp.	0.03	0.01	16.14	13.84
TOTAL ROTATORIA	4.36	4.01	4187.12	245.96
TOTAL ZOOPLANKTON	19.40	14.81	17115.91	3245.60
ES = entire sample counted.				
*=TRACE				

Table E54. Mean monthly zooplankton density in Lake Roosevelt at Keller Ferry for August 1988.

CLADOCERA SPECIES	SS #1 #/LITER	SS #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>		0.03	13.00	18.38
<i>Daphnia galeata mendota</i>	0.41	0.17	291.91	173.88
<i>Daphnia schodleri</i>	1.64	1.34	1490.03	214.10
<i>Daphnia</i> sp. Immature	0.13	0.10	115.12	15.76
<i>Diaphanosoma birgei</i>	0.25	0.04	145.76	150.99
<i>Leptodora kindti</i>			1.94	0.19
TOTAL CLADOCERA	2.44	1.68	2057.76	536.36
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	0.81	0.10	457.83	500.43
<i>Skistodiptomus oregonensis</i>	9.99	3.44	6718.42	4630.65
<i>Epischura nevadensis</i>	0.05	0.06	59.55	7.69
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	2.94	2.35	2646.24	415.61
<i>Mesocyclops edax</i>	0.13	0.10	115.12	15.76
COPEPODID	0.34	0.74	541.76	281.49
TOTAL COPEPODA	14.27	6.81	10538.91	5273.27
TOTAL COPEPODA NAUPLII	0.00	0.01	6.50	9.19
TOTAL ZOOPLANKTON	16.7	8.5	12603.17	5798.30
. = TRACE				
ES = entire sample counted,				

Table E55. Mean monthly zooplankton density in Lake Roosevelt at Keller Ferry for **October 1988**

	ss #1	ss #2	AVERAGE	
CLADOCERA SPECIES	#/LITER	#/LITER	#/CUB.METER	±S.D.
Bosmina longirostris	0.16	0.25	203.60	65.54
Camptocercus rectirostris	0.02	0.03	22.62	7.28
Chydorus sphaericus	0.02	0.01	15.68	2.54
Daphnia galeata mendota	0.03	0.03	31.36	5.07
Daphnia schodleri	2.38	1.64	2007.41	521.68
Diaphanosoma birgei	0.02	0.03	22.62	7.28
TOTAL CLADOCERA	2.63	1.99	2303.29	449.18
COPEPODA SPECIES				
CALANOIDA:				
Leptodiatoms ashlandi	0.35	0.43	389.96	57.28
Skistodiatoms oregonensis	1.75	1.26	1505.44	342.00
CYCLOPOIDA:				
Diacyclops bicuspis thomasi	0.75	0.81	778.35	38.22
Mesocyclops edax	0.14	0.10	118.49	30.11
COPEPODID	0.44	0.32	378.10	83.05
TOTAL COPEPODA	3.42	2.92	3170.34	359.66
TOTAL COPEPODA NAUPLII	4.32	3.94	4129.67	263.18
ROTATORIA SPECIES				
Conochilus unicornis	0.28	0.10	188.38	128.95
Kellicottia longispina	0.02	0.01	15.68	2.54
Keratella sp.	0.03	0.03	31.36	5.07
Polyarthra sp.	0.61	0.61	611.26	0.40
Trichocerca sp.	0.30	0.22	259.60	52.94
TOTAL ROTATORIA	1.24	0.97	1106.29	189.90
TOTAL ZOOPLANKTON	11.61	9.82	10709.50	1265.70
. = TRACE				
ES = entire sample counted				

Table E56. Mean monthly zooplankton density in Lake Roosevelt at Keller Ferry for May 1989.

	ss #1	ss #2	AVERAGE	±S.D.
CLADOCERA SPECIES	#/LITER	#/LITER	#/CUB.METER	
<i>Bosmina longirostris</i>	0.12	0.15	134.61	21.26
<i>Daphnia schodleri</i>	0.04	0.00	19.93	28.19
TOTAL CLADOCERA	0.16	0.15	154.54	6.93
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.32	0.10	209.32	154.94
<i>Epischura nevadensis</i>	0.08	0.05	64.80	21.10
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	2.91	2.14	2527.31	540.87
COPEPODID	0.04	0.00	19.93	28.19
TOTAL COPEPODA	3.35	2.29	2821.35	745.09
TOTAL COPEPODA NAUPLII	7.73	7.28	7507.65	318.38
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	3.99	6.88	5434.72	2048.85
<i>Filinia terminalis</i>	0.36	0.35	353.95	6.77
<i>Kellicottia longispina</i>	7.93	4.54	6235.59	2399.19
<i>Keratella</i> sp.	51.66	43.50	47576.89	5771.80
<i>Notholca</i> sp.	3.51	4.09	3798.92	411.91
<i>Notholca (Agnotholca) foliacea</i>	0.88	1.40	1136.78	367.51
<i>Polyarthra</i> sp.	15.27	10.82	13045.14	3141.14
<i>Synchaeta pectinata</i>	71.27	87.44	79354.64	11434.63
TOTAL ROTATORIA	154.85	159.02	156936.63	2944.00
TOTAL ZOOPLANKTON	166.09	168.74	167420.17	1873.80
. = TRACE				
ES = entire sample counted				

Table E57. Mean monthly zooplankton density in Lake Roosevelt at Keller Ferry for August 1989.

CLADOCERA SPECIES	SS #1 #/LITER	SS #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Daphnia galeata mendota</i>	0.18	0.16	174.20	14.11
<i>Daphnia schodleri</i>	0.91	1.16	1035.50	173.52
<i>Daphnia</i> sp. immature	0.14	0.28	210.36	93.66
<i>Daphnia thorata</i>	0.07	0.10	87.89	22.38
<i>Diaphanosoma birgei</i>	0.23	0.22	228.47	5.30
TOTAL CLADOCERA	1.55	1.93	1736.42	270.15
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	13.00	11.29	12146.34	1213.59
<i>Skistodiptomus oregonensis</i>	1.75	1.24	1490.84	360.40
<i>Epischura nevadensis</i>	0.17	0.16	166.19	2.78
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	1.52	1.54	1529.99	12.06
<i>Mesocyclops edax</i>	0.57	0.88	725.81	220.35
COPEPODID	2.71	1.14	1925.46	1109.51
TOTAL COPEPODA	19.72	16.25	17986.19	2456.08
TOTAL COPEPODA NAUPLII	6.19	6.15	6172.00	25.38
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	0.01	0.00	4.00	5.66
<i>Conochilus unicornis</i>	0.04	0.02	28.66	16.09
<i>Kellicottia longispina</i>	0.09	0.25	169.37	114.96
<i>Keratella</i> sp.		0.01	4.32	6.11
<i>Polyarthra</i> sp.	0.74	0.80	765.95	41.35
TOTAL ROTATORIA	0.87	1.07	972.30	140.67
CHIRONOMIDAE SPECIES	*	.	0.66	0.20
TOTAL ZOOPLANKTON	28.31	28.31	26866.91	2064.80
. = TRACE				
ES = entire sample counted.				

Table E58. Mean monthly zooplankton density in Lake Roosevelt at Keller Ferry for October 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Alona guttata</i>	0.01		6.75	
<i>Bosmina longirostris</i>	0.05		53.99	
<i>Daphnia ambigua</i>	0.01		6.75	
<i>Daphnia schodleri</i>	0.80		796.35	
<i>Daphnia</i> sp. immature	0.01		13.50	
<i>Daphnia thorata</i>	0.01		13.50	
<i>Diaphanosoma brachyurum</i>	0.09		87.73	
TOTAL CLADOCERA	0.98		978.57	
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	2.03		2031.37	
<i>Skistodiptomus oregonensis</i>	0.34		344.19	
<i>Epischura nevadensis</i>	0.01		13.50	
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	0.78		776.10	
<i>Mesocyclops edax</i>	0.15		148.47	
COPEPODID	0.83		830.09	
TOTAL COPEPODA	4.14		4143.72	
TOTAL COPEPODA NAUPLII	4.49		4487.91	
ROTATORIA SPECIES				
<i>Conochilus unicornis</i>	0.13		128.23	
<i>Kellicottia longispina</i>	0.09		87.73	
<i>Keratella</i> sp.	0.04		40.49	
<i>Lecane</i> sp.	0.02		20.25	
<i>Polyarthra</i> sp.	0.79		789.60	
<i>Synchaeta pectinata</i>	0.01		13.50	
<i>Testudinella patina</i> f. <i>triloba</i>	0.01		6.75	
TOTAL ROTATORIA	1.09		1086.55	
TOTAL ZOOPLANKTON	10.7		10696.75	
* = TRACE				
ES = entire sample counted.				

Table E59. Mean monthly zooplankton density in Lake Roosevelt at San Poil Arm for August 1988.

	ss #1	ss #2	AVERAGE	
CLADOCERA SPECIES	#/LITER	#/LITER	#/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.19	0.10	143.59	63.02
<i>Daphnia galeata mendota</i>	0.09		42.76	60.47
<i>Daphnia schodleri</i>	4.02	3.76	3891.22	181.51
<i>Daphnia sp. immature</i>	0.15	0.18	167.74	19.52
<i>Diaphanosoma birgei</i>	0.10	0.05	76.07	37.56
<i>Leptodora kindti</i>	0.01	.	6.93	3.26
TOTAL CLADOCERA	4.56	.	4328.31	329.58
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	3.18	3.47	3323.62	201.07
<i>Skistodiptomus oregonensis</i>	11.31	9.23	10265.87	1471.11
<i>Epischura nevadensis</i>	0.14	0.20	167.44	43.28
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	5.80	5.74	5770.89	38.97
COPEPODID	0.38	0.02	196.40	254.41
TOTAL COPEPODA	20.80	18.65	19724.23	1520.14
TOTAL COPEPODA NAUPLII	0.21	0.26	234.66	41.58
TOTAL ZOOPLANKTON	25.57	18.91	24287.2	4709.30

ES = entire sample counted.
● =TRACE

Table E60. Mean monthly zooplankton density in Lake Roosevelt at San Poil Arm for **October** 1988.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
Bosmina longirostris	0.43	0.64	534.22	152.91
Daphnia galeata mendota		0.02	8.03	11.36
Daphnia schodleri	3.41	3.52	3462.78	76.43
Daphnia sp. immature	0.04		19.37	27.39
Diaphanosom birgei	0.02		9.68	13.70
Leptodora kindti		.	3.86	0.01
TOTAL CLADOCERA	3.90	4.18	4037.94	196.87
COPEPODA SPECIES				
CALANOIDA:				
Leptodiatomus ashlandi	0.21	0.71	459.81	348.98
Skistodiatomus oregonensis	1.94	3.00	2469.87	753.90
Epischura nevadensis	0.17	0.24	207.59	47.07
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	1.05	1.59	1317.83	384.62
Mesocyclops edax	2.98	3.68	3330.03	491.28
HARPACTICOIDA:				
Bryocamptus sp.				
COPEPODID	0.21	0.59	403.61	269.49
TOTAL COPEPODA	6.57	9.81	8188.74	2295.34
TOTAL COPEPODA NAUPLII	6.45	7.60	7022.60	810.50
ROTATORIA SPECIES				
Conochilus unicornis	0.31	0.16	235.24	105.57
Kellicottia longispina		0.10	48.18	68.13
Keratella sp.		0.02	8.03	11.36
Mnostyla lunaris	0.02		9.68	13.70
Polyarthra sp.	1.86	1.99	1925.29	93.30
Trichocerca sp.	1.86	2.34	2101.93	343.12
TOTAL ROTATORIA	4.05	4.61	4328.35	396.64
TOTAL ZOOPLANKTON	20.97	26.20	23577.63	3698.20
ES = entire sample counted.				
*=TRACE				

Table E61. Mean monthly zooplankton density in Lake Roosevelt at San Poil Arm for May 1989.

	ss #1	ss #2	AVERAGE	±S.D.
CLADOCERA SPECIES	#/LITER	#/LITER	#/CUB.METER	
Bosmina longirostris	0.04	0.03	37.58	5.86
Daphnia ambigua	0.04	0.03	37.58	5.86
Leptodora kindti	0.01	0.01	10.69	0.96
TOTAL CLADOCERA	0.09	0.08	85.85	10.75
COPEPODA SPECIES				
CALANOIDA:				
Leptodiptomus ashlandi	0.08	0.10	91.88	11.93
Skistodiptomus oregonensis	0.04		20.86	29.50
Epischura nevadensis	0.00	0.03	16.72	23.65
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.83	0.70	768.35	93.48
TOTAL COPEPODA	0.96	0.84	897.81	87.40
TOTAL COPEPODA NAUPLII	4.63	3.85	4238.41	555.46
ROTATORIA SPECIES				
Brachionus quadridentatus	3.71	5.02	4364.67	921.20
Filinia terminalis	0.13	0.10	112.74	17.57
Kellicottia longispina	2.71	2.61	2660.15	73.26
Keratella sp.	28.54	29.59	29066.38	747.17
Notholca sp.	2.42	2.74	2581.00	227.84
Notholca (Agnotholca) foliacea	0.92	0.94	927.11	13.04
Polyarthra sp.	5.63	4.08	4856.12	1097.99
Synchaeta pectinata	20.86	18.09	19476.19	1958.63
Trichocerca sp.	0.17	0.10	133.61	47.07
TOTAL ROTATORIA	65.09	63.27	64177.96	1285.28
CHIRONOMIDAE SPECIES	0.00	0.03	16.72	23.65
TOTAL ZOOPLANKTON	70.77	68.03	69400.03	1940.82
. = TRACE				
ES = entire sample counted.				

Table E62. Mean monthly zooplankton density in Lake Roosevelt at San boil Arm for August 1989.

CLADOCERA SPECIES	ss #1 #/LITER	s s #2 #/LITER	AVERAGE #/CUB.METER	± S.D.
<i>Bosmina longirostris</i>	0.02		8.31	11.76
<i>Chydorus sphaericus</i>		0.01	4.13	5.84
<i>Daphnia galeata mendota</i>	0.04	0.07	53.82	17.33
<i>Daphnia schodleri</i>	3.62	2.11	2865.38	1061.99
<i>Daphnia sp. immature</i>	0.02	0.01	12.44	5.92
<i>Daphnia thorata</i>	0.03	0.01	20.76	17.67
<i>Diaphanosoma birgei</i>	0.07	0.15	111.75	52.22
<i>Leptodora kindti</i>	.	*	0.17	*
TOTAL CLADOCERA	3.80	2.36	3076.76	1018.20
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	11.50	6.41	8953.41	3597.76
<i>Skistodiaptomus oregonensis</i>	1.36	0.83	1094.65	368.31
<i>Epischura nevadensis</i>	0.08	0.12	103.51	28.82
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	1.24	1.31	1271.85	46.89
<i>Mesocyclops edax</i>	0.61	0.87	737.06	184.11
COPEPODID	0.76	0.50	630.20	1 go.39
TOTAL COPEPODA	15.55	10.04	12790.69	3896.63
TOTAL COPEPODA NAUPLII	7.22	5.96	6593.86	891.62
ROTATORIA SPECIES				
<i>Collotheca mutabilis</i>	0.10	0.08	91.18	12.14
<i>Conochilus unicornis</i>	0.02	0.03	24.83	11.60
<i>Kellicottia longispina</i>	0.31	0.18	244.65	89.01
<i>Keratella sp.</i>	0.06	0.02	41.49	23.63
<i>Polyarthra sp.</i>	0.50	0.41	455.89	60.69
<i>Testudinella patina f. triloba</i>	0.02	0.01	12.44	5.92
TOTAL ROTATORIA	1.00	0.74	870.48	179.78
CHIRONOMIDAE SPECIES	.	*	0.58	0.12
TOTAL ZOOPLANKTON	27.57	19.1	23331.79	5989.20
. = TRACE				
ES = entire sample counted.				

Table E63. Mean monthly zooplankton density in Lake Roosevelt at San Poil Arm for October 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.05	0.16	101.89	75.29
<i>Chydorus sphaericus</i>	0.02		8.11	11.47
<i>Daphnia ambigua</i>	0.05	0.02	32.95	22.22
<i>Daphnia galeata mendota</i>		0.02	8.62	12.19
<i>Daphnia schodleri</i>	3.08	2.76	2919.74	228.93
<i>Daphnia sp. immature</i>	0.02	0.09	51.20	49.47
<i>Daphnia thorata</i>	0.02		8.11	11.47
<i>Diaphanosoma birgei</i>	0.57	0.57	568.24	0.81
<i>Leptodora kindtii</i>	.	.	0.42	0.10
TOTAL CLADOCERA	3.81	3.62	3699.28	134.40
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	9.34	9.50	9419.77	109.76
<i>Skistodiaptomus oregonensis</i>	1.02	1.10	1062.47	57.52
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	1.33	1.17	1251.03	111.63
<i>Mesocyclops edax</i>	0.78	1.05	914.97	192.98
COPEPODID	1.30	1.47	1381.32	118.50
TOTAL COPEPODA	13.77	14.29	14029.56	367.14
TOTAL COPEPODA NAUPLII	7.04	7.55	7294.35	361.04
<i>Conochilus unicornis</i>	0.66	0.71	685.84	29.50
<i>Euchlanis triquetra</i>	0.02	0.02	16.73	0.72
<i>Kellicottia longispina</i>	0.16	0.10	132.80	41.56
<i>Keratella sp.</i>	0.02	0.02	16.73	0.72
<i>Lecane sp.</i>		0.03	17.24	24.38
<i>Mnosta styla lunaris</i>	0.02		8.11	11.47
<i>Polyarthra sp.</i>	1.77	2.29	2030.17	370.95
<i>Synchaeta pectinata</i>	0.02	0.02	16.73	0.72
TOTAL ROTATORIA	2.66	3.19	2924.35	373.96
TOTAL ZOOPLANKTON	27.28	28.65	27947.54	968.70
* = TRACE				
Es = entire sample counted.				

Table E64. Mean monthly zooplankton density in Lake Roosevelt at Spring Canyon for August 1988.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	± S.D.
<i>Bosmina longirostris</i>	0.10	0.09	91.74	5.46
<i>Daphnia galeata mendota</i>	0.61	0.25	428.94	258.62
<i>Daphnia schodleri</i>	4.09	4.17	4128.48	52.35
<i>Daphnia</i> sp. Immature	0.31	0.39	346.29	57.11
<i>Diaphanosoma brachyurum</i>	0.04	0.05	45.48	10.25
<i>Diaphanosoma birgei</i>	1.24	1.39	1315.62	103.07
<i>Leptodora kindti</i>	.	.	3.11	0.07
TOTAL CLADOCERA		6.34	6359.66	35.40
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiptomus ashlandi</i>	4.61	4.11	4360.22	349.95
<i>Diaptomus oregonensis</i>	17.30	14.39	15848.69	2056.27
<i>Epischura nevadensis</i>	0.57	0.47	524.06	70.02
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	4.89	5.59	5241.80	491.21
<i>Mesocyclops edax</i>	0.04	0.02	27.91	14.61
COPEPODID	0.23	0.09	158.65	100.09
TOTAL COPEPODA	27.65	24.68	26161.34	2099.73
TOTAL COPEPODA NAUPLII	0.06	0.18	116.56	83.72
TOTAL ZOOPLANKTON	34.10	31.20	32637.56	2050.60
. = TRACE				
ES = entire sample counted.				

Table E65. Mean monthly zooplankton density in Lake Roosevelt at Spring Canyon for May 1989.

	ss #1	ss #2	AVERAGE	±S.D.
CLADOCERA SPECIES	#/LITER	#/LITER	#/CUB.METER	
<i>Bosmina longirostris</i>	0.24	0.19	213.63	34.60
<i>Daphnia schodleri</i>	0.06	0.00	29.76	42.09
<i>Leptodora kindti</i>	0.01	0.01	6.60	0.77
TOTAL CLADOCERA	0.31	0.20	249.99	77.46
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	0.48	0.19	332.68	202.96
<i>Skistodiaptomus oregonensis</i>	0.06	0.04	48.68	15.34
<i>Epischura nevadensis</i>		0.04	18.92	26.75
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	5.95	3.78	4867.84	1533.78
TOTAL COPEPODA	6.49	4.05	5268.11	1725.32
TOTAL COPEPODA NAUPLII	27.14	25.16	26150.88	1402.87
ROTATORIA SPECIES				
<i>Brachionus quadridentatus</i>	5.77	4.99	5383.88	551.45
<i>Filinia terminalis</i>	1.07	1.06	1065.38	8.56
<i>Kellicottia longispina</i>	12.02	10.06	11043.68	1386.11
<i>Keratella</i> sp.	191.43	169.72	180573.55	15351.32
<i>Microthrix laticornis</i>	0.06		29.76	42.09
<i>Notholca</i> sp.	4.58	3.78	4183.31	565.71
<i>Notholca (Agnotholca) foliacea</i>	2.44	2.61	2525.47	120.21
<i>Polyarthra</i> sp.	19.35	17.74	18544.44	1132.50
<i>Synchaeta pectinata</i>	18.15	16.00	17079.05	1521.29
<i>Trichotria tetractis</i>	0.24	0.23	232.55	7.85
TOTAL ROTATORIA	255.12	226.20	240661.07	20446.67
TOTAL ZOOPLANKTON	289.06	255.61	272330.05	23652.32
ES = entire sample counted.				

Table E66. Mean monthly zooplankton density in Lake Roosevelt at Spring Canyon for August 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
<i>Bosmina longirostris</i>	0.01	0.01	12.69	2.45
<i>Daphnia galeata mendota</i>	0.02	0.01	18.17	5.29
<i>Daphnia schodleri</i>	1.24	1.20	1217.58	28.81
<i>Daphnia sp. immature</i>	0.22	0.16	188.89	42.74
<i>Daphnia thorata</i>	0.02	0.01	18.17	5.29
<i>Diaphanosoma birgei</i>	0.14	0.10	121.69	29.31
TOTAL CLADOCERA	1.65	1.50	1577.19	108.99
COPEPODA SPECIES				
CALANOIDA:				
<i>Leptodiaptomus ashlandi</i>	8.13	7.07	7598.34	750.23
<i>Skistodiaptomus oregonensis</i>	1.27	0.68	974.38	419.23
<i>Epischura nevadensis</i>	0.02	0.06	39.80	25.30
CYCLOPOIDA:				
<i>Diacyclops bicuspidatus thomasi</i>	1.80	0.72	1258.94	760.47
<i>Mesocyclops edax</i>	0.65	0.46	553.97	130.67
COPEPODID	0.32	0.16	238.18	112.46
TOTAL COPEPODA	12.18	9.14	10663.62	2147.74
TOTAL COPEPODA NAUPLII	3.24	3.42	3330.65	124.28
ROTATORIA SPECIES				
<i>Conochilus unicornis</i>	0.01	0.01	12.69	2.45
<i>Kellicottia longispina</i>	0.24	0.10	170.99	99.03
<i>Keratella sp.</i>	0.04	0.01	29.12	20.79
<i>Polyarthra sp.</i>	0.20	0.22	206.78	13.55
TOTAL ROTATORIA	0.49	0.35	419.58	103.81
TOTAL ZOOPLANKTON	17.56	14.40	15991.04	2234.50
ES = entire sample counted.				

Table E67. Mean monthly zooplankton density in Lake Roosevelt at Spring Canyon for October 1989.

CLADOCERA SPECIES	ss #1 #/LITER	ss #2 #/LITER	AVERAGE #/CUB.METER	±S.D.
Bosmina longirostris	0.07	0.06	61.69	9.06
Daphnia ambigua		0.01	4.61	6.52
Daphnia schodleri	1.82	3.49	2656.82	1181.38
Daphnia sp. immature	0.04	0.04	39.71	4.03
Diaphanosoma birgei	0.25	0.36	303.09	79.56
TOTAL CLADOCERA	2.18	3.96	3065.92	1256.70
COPEPODA SPECIES				
CALANOIDA:				
Leptodiaptomus ashlandi	1.29	1.64	1462.68	250.95
Skistodiaptomus oregonensis	0.20	0.22	212.71	11.93
Epischura nevadensis	0.01	0.01	8.86	0.50
CYCLOPOIDA:				
Diacyclops bicuspidatus thomasi	0.58	0.60	588.85	14.24
Mesocyclops edax	0.10	0.13	115.57	18.99
COPEPODID	0.52	0.53	526.81	10.76
TOTAL COPEPODA	2.70	3.13	2915.49	307.37
TOTAL COPEPODA NAUPLII	2.77	4.16	3465.53	988.95
ROTATORIA SPECIES				
Conochilus unicornis	0.26	0.64	449.82	262.99
Kellicottia longispina	0.03	0.02	21.98	5.02
Keratella sp.	0.03	0.02	21.98	5.02
Mnostyla lunaris		0.01	4.61	6.52
Polyarthra sp.	1.33	2.60	1963.10	898.46
Testudinella patina f. triloba	0.01		4.26	6.02
Trichocerca sp.	0.03	0.04	35.45	1.99
TOTAL ROTATORIA	1.69	3.32	2501.20	1153.88
CHIRONOMIDAE SPECIES	*	*	0.62	0.16
TOTAL ZOOPLANKTON	9.34	14.57	11946.14	3698.20
. = TRACE				
ES = entire sample counted.				

Table E68. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Kettle Falls for May 89.

	D. gal mend	D. schodleri
	0.72	0.50
AvL(mm)	0.72	0.50
SD	0.00	0.00
lnL(mm)	-0.33	-0.69
lna	1.51	2.30
b	2.56	3.10
blnL	-0.84	-2.15
lna + blnL	0.67	0.15
exp -ln	1.95	1.16
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (μg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E69 , Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Kettle Falls for October 89.

	D. ambigua	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
	1.0a	0.74	0.80	1.60	1.50	7.00
	0.92	1.36	0.90	1.00	1.80	1.90
	1.10	0.68	0.70	1.60	0.82	3.00
	0.84	0.90	0.82	1.50	1.50	7.20
	1.02	1.06	0.86	1.70	0.90	2.80
	1.06	0.80	0.80	1.70	1.06	5.60
	0.90	0.88	0.84	1.36	1.76	6.00
	0.80	1.76	1.76		1.90	2.30
	0.90		1.04		1.90	
	0.78		0.90		1.96	
	0.76		0.82		1.90	
	1.50		0.72		2.22	
	1.48		1.40		2.00	
	1.50		1.42		2.20	
	1.56		1.20			
	1.40		1.26			
	1.70		0.96			
	1.66		1.40			
	1.02		1.14			
	1.00		1.60			
	1.60		1.58			
	1.64		2.08			
	1.02		2.06			
	1.90		2.00			
	1.08		1.64			
			1.60			
AvL(mm)	1.21	1.02	1.24	1.49	1.67	4.48
SD	0.34	0.37	0.44	0.25	0.46	2.20
lnL(mm)	0.19	0.02	0.22	0.40	0.51	1.50
lna	1.54	1.51	1.43	2.30	2.64	-0.82
b	2.29	2.56	3.13	3.10	2.54	2.67
blnL	0.43	0.06	0.68	1.25	1.31	4.00
lna + blnL	1.97	1.57	2.11	3.55	3.95	3.18
exp -ln	7.20	4.79	8.26	34.64	51.78	24.02
lnW = lna + b lnL						
lnW(-ln) = log of dry weight estimate (µg)/species' individual						
lnW*#/m ³ = Bsp.						
#/m ³ = Total mean monthly density/species						
Bsp = Total Daphnia (species) biomass						

Table E70 . Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Gifford for August 88.

	D. gal mend	D. retroc.	D. schodleri	Leptodora
	1.22	1.74	1.86	4.00
	0.86	0.90	1.70	5.80
	1.56	0.86	1.30	3.00
	1.10	1.00	1.34	3.70
	1.80	0.68	1.04	3.10
	0.72	0.88	1.36	6.20
	1.82	1.44	1.80	2.40
	0.76	1.46	1.86	5.50
	0.76	1.74	1.20	
	1.66	1.44	2.50	
	1.48	1.40	1.74	
	1.34	1.80	2.66	
	1.60	1.44	2.76	
	1.00		2.40	
	1.28		2.54	
	1.38			
	2.16			
	1.68			
	1.24			
	1.62			
	1.90			
	1.48			
	0.94			
	2.00			
	0.86			
	1.40			
	1.54			
	2.10			
	2.04			
AvL(mm)	1.42	1.29	1.87	4.21
SD	0.43	0.38	0.57	1.44
lnL(mm)	0.35	0.26	0.63	1.44
lna	1.51	1.43	2.30	-0.82
b	2.56	3.13	3.10	2.67
blnL	0.91	0.80	1.94	3.84
lna + b lnL	2.42	2.23	4.24	3.02
exp -ln	11.19	9.31	69.67	20.44

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W \cdot \#/\text{m}^3 = \text{Bsp.}$

$\#/\text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total Daphnia (species) biomass

Table E71. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Gifford for October 88.

	D. gal mend	D. retroc.	D. schodleri	Leptodora
	1.50	2.08	1.16	6.70
	1.20	1.58	2.00	3.10
	1.90	1.40	1.70	3.90
	1.62	1.16	2.64	4.00
	1.34	1.36	1.34	3.80
	0.62	1.54	2.12	6.00
	1.64	0.90	1.42	
	1.68	0.96	2.02	
	1.10	0.70	2.16	
	1.50	0.80	2.64	
	1.92		1.30	
	0.68		2.02	
	0.68		1.30	
	1.76		1.96	
	1.48		1.50	
	2.02		1.00	
	1.36		1.60	
	1.30		1.10	
	1.62		1.36	
	1.50		1.60	
	1.26		2.40	
	1.36		1.08	
	1.30		1.56	
	1.80		2.02	
	1.36		0.66	
	0.84		1.24	
	1.20		3.04	
			1.04	
			2.44	
			2.12	
			2.04	
			1.40	
			2.52	
AvL(mm)	1.39	1.25	1.74	4.58
SD	0.37	0.43	0.57	4.58
lnL(mm)	0.33	0.22	0.56	1.52
lna	1.51	1.43	2.30	-0.82
b	2.56	3.13	3.10	2.67
blnL	0.84	0.69	1.72	4.06
lna + blnL	2.35	2.13	4.02	3.24
exp -ln	10.52	8.38	55.78	25.61

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W^* \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total *Daphnia* (species) biomass

Table E72. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Gifford for May 89.

	D. gal mend	D. retroc.	D. schodleri	Leptodora
	0.70	1.36	1.30	2.20
	1.36		1.56	2.20
	0.58		0.56	2.30
	0.88		0.56	0.78
	1.26		0.46	0.86
	0.64		0.90	1.06
	0.56		0.90	0.66
	1.30		0.70	0.58
			0.70	0.70
			0.50	0.58
			0.50	1.96
			0.96	0.60
			1.10	0.58
				1.00
				0.78
				0.64
				0.58
				0.86
				1.26
				0.94
				1.80
				1.12
				0.86
				2.14
				0.62
				0.84
				1.06
				1.06
				0.60
				0.68
				1.14
AvL(mm)	0.91	1.36	0.82	1.07
SD	0.34	0.00	0.34	0.55
lnL(mm)	-0.09	0.31	-0.19	0.06
lna	1.51	1.43	2.30	-0.82
b	2.56	3.13	3.10	2.67
blnL	-0.24	0.96	-0.60	0.17
lna + blnL	1.27	2.39	1.70	-0.65
exp -ln	3.56	10.96	5.45	0.52
lnW = lna + b lnL				
lnW(-ln) = log of dry weight estimate (µg)/species' individual				
lnW*#/m ³ = Bsp.				
#/m ³ = Total mean monthly density/species				
Bsp = Total <i>Daphnia</i> (species) biomass				

Table E73. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Gifford for August 89.

	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
	1.72	1.16	1.10	2.40	7.50
	2.12	0.92	1.14	2.60	7.80
	2.28	0.66	1.36	1.36	7.00
	1.20	1.52	1.12	0.96	7.30
	2.42	0.60	1.40	2.22	5.00
	1.74	1.50	2.36	2.18	5.40
	1.34	1.68	1.40	2.38	7.40
	2.38	1.16	2.44	2.54	5.40
	2.46	1.50	2.44	2.10	8.20
	0.76	0.72	1.10	2.22	6.20
	1.76	1.56	2.28	2.38	7.10
	1.40	1.16	2.08	2.14	8.40
	1.00	1.16	2.00	2.60	7.50
	1.76	1.60	2.58	2.22	9.20
	0.70	2.52	3.10	2.30	4.80
	2.44	1.80	2.68	2.46	6.00
	0.58	2.22		2.50	4.30
	0.66			2.30	5.10
	0.92			0.86	7.00
	1.00			2.30	4.40
	1.16			2.40	7.80
	1.50			2.34	4.80
	2.20			2.46	8.10
	2.28			2.32	6.00
	1.98			2.12	6.00
	1.28				7.00
	2.22				7.10
	2.50				10.00
	0.76				6.10
	0.74				7.90
	2.78				7.00
	1.36				7.40
	1.24				4.00
	1.14				5.00
	1.04				6.90
	1.06				
	0.70				
	2.08				
	2.30				
	1.20				
	1.52				
AvL(mm)	1.55	1.68	1.91	2.19	6.69
SD	0.64	0.52	0.67	0.45	1.46
lnL(mm)	0.44	0.32	0.65	0.78	1.90
lna	1.51	1.43	2.30	2.64	-0.82
b	2.56	3.13	3.10	2.54	2.67
blnL	1.13	1.01	2.01	1.99	5.07
lna + blnL	2.64	2.44	4.31	4.63	4.25
exp -ln	13.96	11.44	74.30	102.20	70.25
lnW = lna + b lnL					
lnW(-ln) = log of dry weight estimate (µg)/species' individual					
lnW*#/m³ = Bsp.					
#/m³ = Total mean monthly density/species					
Bsp = Total Daphnia (species) biomass					

Table E74. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Gifford for October 89.

	<i>D. ambigua</i>	<i>D. gal mend</i>	<i>D. retroc.</i>	<i>D. schodleri</i>	<i>D. t horata</i>	<i>Leptodora</i>
	0.84	0.68	0.76	1.10	0.64	9.00
	0.68	0.64	0.98	1.14	1.76	4.80
	0.66	0.66	0.66	1.30	1.70	6.20
	1.00	1.08	0.78	0.86	1.50	11.00
	1.50	1.30	1.14	1.62	1.38	11.10
	0.72	1.62	0.70	1.14	1.40	4.30
	1.08	1.60	1.66	1.50	2.06	3.00
		0.92	0.78	2.14	2.18	2.50
		1.46	1.02	1.48	1.70	3.00
		0.84	1.66	1.48	1.60	5.80
		1.88	1.40	1.54	1.70	5.00
		1.60	1.84	1.30	1.70	2.30
		1.00		1.48	1.90	6.20
		1.52		1.70	2.00	4.80
		1.80		2.38		7.80
		1.20		2.80		7.20
		1.56		2.58		4.00
				1.40		3.00
				2.00		6.40
				2.60		
				1.88		
				2.76		
				2.20		
				1.20		
				1.10		
				2.68		
				0.92		
				2.60		
				1.06		
				1.82		
				1.60		
				1.56		
				1.40		
				2.50		
AvL(mm)	0.93	1.26	1.12	1.73	1.66	5.65
SD	0.30	0.41	0.42	0.59	0.38	2.65
lnL(mm)	-0.08	0.23	0.11	0.55	0.51	1.73
lna	1.54	1.51	1.43	2.30	2.64	-0.82
b	2.29	2.56	3.13	3.10	2.54	2.67
blnL	-0.18	1.58	1.34	1.70	1.29	4.62
lna + blnL	1.36	2.09	1.77	4.00	3.93	3.80
exp -ln	3.91	8.12	5.89	54.55	50.66	44.82
lnW = ln a + b ln L						
lnW(-ln) = log of dry weight estimate (µg)/species' individual						
lnW*#/m ³ = Bsp.						
#/m ³ = Total mean monthly density/species						
Bsp = Total Daphnia (species) biomass						

Table E75. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Hunters for August 88.

	<i>D. gal mend</i>	<i>D. retroc.</i>	<i>D. schodleri</i>	<i>Leptodora</i>
	1.02	0.62	2.40	5.00
	1.06	1.06	3.26	3.40
	1.14	1.66	0.90	7.50
	0.96	1.56	2.20	9.20
	1.66	1.66	2.94	6.20
	1.66	1.66	1.24	6.30
	2.46	0.90	2.26	7.60
	1.14	1.14	1.00	6.20
	1.64	1.44	2.42	7.20
	1.66	1.10	1.64	4.10
	0.76	1.06	1.00	4.20
	1.46		1.14	3.40
	1.46		1.70	4.10
	1.66		1.54	7.20
	0.96		2.04	6.00
	1.52		0.66	4.10
	0.90		0.94	2.90
	1.42		2.16	6.60
	2.24		2.46	5.30
	2.06		1.16	6.00
	1.20		2.50	6.20
	1.62		1.30	3.40
	1.70		1.06	7.60
	2.20		1.94	5.00
	2.30		2.44	5.00
	2.60		2.70	3.60
	1.62		2.36	3.60
	2.16		1.96	4.30
	2.40		2.00	3.50
	0.76		2.24	3.50
	1.40		1.60	4.10
	1.64		2.28	5.90
	1.10		1.04	4.00
	1.16		2.00	1.50
	1.64		2.34	6.00
			1.46	3.40
			1.64	4.50
			2.42	4.00
				2.30
				3.30
				3.40
				3.50
				3.10
				4.00
				3.60
				4.10
				9.00
				6.60
				5.60
				3.60
				3.60
				3.00
				7.00
				7.00
				2.50
				6.60
				3.20
				2.40
				6.50
				4.00
				4.00
				3.00
				3.50
AvL(mm)	1.56	1.28	1.90	4.65
SD	0.51	0.38	0.61	1.65
lnL(mm)	0.45	0.25	0.64	1.22
lna	1.51	1.43	2.30	-0.62
b	2.56	3.13	3.10	2.67
blnL	1.14	0.77	1.96	3.27
lna + blnL	2.65	2.20	4.26	2.45
exp -ln	14.18	9.07	72.39	11.54
lnW = ln a + b lnL				
lnW(-ln) = log of dry weight estimate (µg/species' individual				
lnW*#/m ³ = Bsp.				
#/m ³ = Total mean monthly density/species				
Bsp = Total Daphnia (species) biomass				

Table E76. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Hunters for October 88.

	D. gal mend	D. retroc.	D. schodleri	Leptodora
	1.56	1.10	1.06	10.00
	1.60	0.60	0.90	7.00
	1.11	1.32	1.10	9.00
	0.76	1.16	1.06	6.10
	1.90	1.80	0.92	4.00
	1.04	1.36	1.56	7.10
	0.70	0.74	1.34	8.50
	1.20	1.74	2.05	7.60
	0.92	1.70	1.06	10.00
	1.76	0.66	1.60	6.30
	0.82	1.42	1.04	6.20
	1.70	0.84	1.30	0.00
	0.72	1.70	1.46	7.30
	0.90	1.12	1.50	3.40
	1.20	0.86	2.10	7.50
	1.50		2.28	8.90
	1.26		2.16	4.40
	0.93		1.30	7.00
	0.82		1.30	5.00
	1.14		1.00	6.70
	0.60		1.60	7.50
	1.58		0.86	7.00
	0.90		2.90	8.00
	0.76		2.12	8.10
	1.22		1.10	9.50
	2.18		1.00	8.00
	2.22		1.96	5.20
	0.72		1.94	7.00
	1.56		1.32	5.60
	1.42		2.30	5.20
	2.30		1.76	8.10
	2.10		1.98	7.10
	2.62		0.98	7.00
	1.50		2.42	7.00
	1.36		2.22	9.20
	2.04		2.42	9.40
	0.02		2.80	7.60
	1.10		0.96	10.20
	1.00		2.76	7.70
	1.40		2.38	10.00
	0.82		2.72	3.70
	0.92		2.36	7.30
	1.52		2.46	
	1.12		1.26	
	1.08		2.14	
			2.40	
			2.16	
			2.42	
			2.70	
			2.32	
			2.80	
AvL(mm)	1.30	1.21	1.80	7.31
SD	0.50	0.41	0.64	1.73
lnL(mm)	0.26	0.19	0.59	1.99
lna	1.51	1.43	2.30	-0.82
b	2.56	3.13	3.10	2.67
blnL	0.67	0.59	1.62	5.31
lna + blnL	2.18	2.02	4.12	4.49
exp -ln	0.86	7.56	61.30	89.04
lnW = lna + b lnL				
lnW(-ln) = log of dry weight estimate (µg)/species' individual				
lnW*#/m ³ = Bsp.				
#/m ³ = Total mean monthly density/species				
Bsp = Total Daphnia (species) biomass				

Table E77. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Hunters for May 89.

	D. gal mend	D. schodleri	Leptodora
	0.54	0.74	1.06
	0.56	0.70	0.58
	0.66	0.60	1.50
	0.54	0.76	1.08
	0.70	0.50	1.20
	0.98	0.86	1.00
	0.72	0.94	0.98
	0.70	0.94	1.30
	1.00	1.18	0.50
	1.00		0.96
			1.10
			1.26
			1.34
			1.36
			1.20
			0.68
			2.00
			1.94
			1.00
			0.96
			2.00
			2.04
			2.00
			1.06
			1.70
			1.96
			0.68
			1.56
			0.98
			1.04
			2.30
			6.00
			4.10
			5.00
			2.30
			2.00
			1.80
			2.00
			2.20
			2.10
			2.00
AvL(mm)	0.74	0.80	1.70
SD	0.19	0.20	1.10
lnL(mm)	-0.30	-0.22	0.53
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	-0.77	-0.68	1.42
lna + blnL	0.74	1.62	0.60
exp -ln	2.09	5.04	1.82
lnW = lna + b lnL			
lnW(-ln) = log of dry weight estimate (µg)/species' individual			
lnW*#/m ³ = Bsp.			
#/m ³ = Total mean monthly density/species			
Bsp = Total Daphnia (species) biomass			

Table E78. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Hunters for August 89.

	D. ambigua	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
	0.74	1.72	1.92	1.60	1.64	5.50
	0.64	0.80	1.64	2.16	2.20	9.30
		0.70	1.86	1.10	2.20	9.00
		0.96	1.30	2.34	1.78	8.10
		1.26	1.12	1.24	1.56	7.10
		1.84	1.20	2.80	1.14	7.30
		1.84	1.90		1.40	7.20
		0.66	1.76		1.36	12.20
		1.56	1.26		1.56	8.20
		1.04	0.84		1.38	8.20
		2.22	1.00		1.32	11.00
		2.00	0.76		1.70	7.20
		1.14	1.80		1.90	7.00
		2.02	1.70			8.20
		1.24	1.36			4.80
		1.98				2.00
		1.92				0.60
		1.46				7.30
		0.90				11.60
		1.24				6.10
		0.86				11.80
		0.86				10.00
		0.94				10.00
		1.50				8.30
		2.36				9.00
		1.74				4.90
		1.68				13.10
		1.10				1.40
		2.00				1.30
						11.60
						1.90
						1.90
						10.10
AvL(mm)	0.69	1.43	1.43	1.87	1.63	7.37
SD	0.07	0.50	0.40	0.67	0.33	3.46
lnL(mm)	-0.37	0.36	0.36	0.63	0.49	2.00
lna	1.54	1.51	1.43	2.30	2.64	-0.82
b	2.29	2.56	3.13	3.10	2.54	2.67
blnL	-0.85	0.92	1.11	1.95	1.23	5.33
lna + blnL	0.69	2.43	2.55	4.25	3.87	4.51
exp -ln	1.99	11.36	12.77	69.82	48.18	91.01
lnW = lna + b lnL						
lnW(-ln) = log of dry weight estimate (µg)/species' individual						
lnW*#/m³ = Bsp.						
#/m³ = Total mean monthly density/species						
Bsp = Total Daphnia (species) biomass						

Table E79. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Hunters for October 89.

	D. anbigua	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
1.40	0.80	1.16	2.56	1.80	2.00	
1.02	1.42	1.96	2.30	1.44	0.70	
0.80	1.02	1.84	2.56	1.54	8.60	
0.90	0.76	0.70	2.12	1.10	6.10	
1.06	1.06	1.28	2.28	1.82	2.80	
1.00	0.76	1.44	2.68	1.40	7.00	
0.74	1.06	0.62	1.50	1.38	7.20	
1.10	0.92	0.70	1.62	1.90	9.00	
1.00	0.80	0.64	1.36	1.90	7.10	
0.98	1.18	0.70	1.28	1.94	8.00	
0.74	1.38	1.94	2.00	1.40	5.00	
1.00	1.14	0.68	1.90	2.00	9.30	
0.78	1.20	1.54	2.24	1.84	7.60	
	1.00	1.68	1.44	1.88	6.80	
	1.38	0.96	2.02	1.80	7.40	
	1.20	0.92	2.12	1.90	7.10	
	1.26	2.00	2.36	1.50	8.00	
	1.40	1.44	1.82		5.10	
	1.20	0.66	2.30		9.10	
	1.22	0.70	1.70		6.20	
	1.40	1.46	1.94		9.50	
		1.70	2.18		10.00	
		1.48	2.66		2.00	
		0.60	1.60		7.50	
		0.80	1.54		7.30	
		1.60	2.92			
		1.46	2.12			
		0.62	1.22			
		2.60	1.50			
		1.60	0.96			
			1.70			
			2.36			
			1.50			
			1.66			
			2.26			
			3.00			
			2.10			
			1.20			
			1.54			
			2.20			
			1.02			
			1.58			
			2.12			
			1.62			
			2.42			
			2.12			
			1.68			
AvL(mm)	0.96	1.12	1.25	1.96	1.68	6.66
SD	0.18	0.22	0.54	0.49	0.26	2.40
lnL(mm)	-0.04	0.12	0.22	0.66	0.52	1.90
lna	1.54	1.51	1.43	2.30	2.64	-0.82
b	2.29	2.56	3.13	3.10	2.54	2.67
blnL	-0.09	0.29	0.70	2.04	1.32	5.06
lna + blnL	1.45	1.80	2.13	4.34	3.96	4.24
exp -ln	4.28	6.08	8.40	77.02	52.25	69.34
lnW = lna + b lnL						
lnW(-ln) = log of dry weight estimate (µg)/species' individual						
lnW*#/m³ = Bsp.						
#/m³ = Total mean monthly density						
Bsp = Total Daphnia (species) biomass						

Table E80. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for August 88.

	D. gal mend	D. retroc.	D. schodleri	Leptodora
	1 81	1.44	2.32	9.00
	1.90	1 22	2.38	4.90
	1 88	2.00	2.10	4.60
	1 16	0.78	2 12	8.10
	1 42	2.00	2.12	9.10
	2 64	1 94	2.52	4.40
	0.94	2.32	2.06	7 80
	0 94	0.86	1.94	8.00
	1 50	0.72	1.12	7 30
	1.80	1 90	1.08	5.00
	1.60	0 86	2.20	4.00
	2.16	2 34	2.40	4 00
	0 96	1.64	1.76	6.00
	2.76	0 84	1 80	6.00
	1.22	1 94	1.56	7.00
	2.44	1.56	2.32	7.00
	1.44	1 92	1 86	5 80
	2.48	1 42	2.20	10.20
	1.32	2.24	2 82	7 90
	2.28	2.10	2.96	7 90
	1.38	1 64	2 16	a 00
		0 82	2 30	8 00
		1 72	1.10	5.00
		2.34	1.96	3 30
		1 88	2.04	3.30
		2.30	1.86	7 20
		1.28	0.96	7.00
			1.48	8.90
			1.10	6.70
			2.00	5.00
			2.64	4.00
			3.26	4.00
			2.96	3.50
			2.52	3.50
			2.74	5.50
			2.62	4 60
			1.04	3.10
			3.04	7.10
			3.30	10.00
			2.48	7.00
			3.26	7.00
				5.20
				4 80
				8.60
				4 80
				8 30
				5.50
				5.90
				4 50
				6.10
				5.20
				5.20
				5 20
				8.10
				3.60
				3.80
				6.90
AvL(mm)	1.72	1.63	2.16	6.10
SD	0.57	0.54	0 64	1.93
lnL(mm)	0.54	0.49	0.77	1.61
lna	1.51	1.43	2.30	-0 82
b	2 56	3.13	3.10	2.67
blnL	1.38	1.53	2.39	4.83
lna + blnL	2.69	2.96	4 69	4.01
exp -ln	18.03	19.33	106.56	54.96
lnW = lna + b lnL				
lnW(-ln) = log of dry weight estimate (µg)/species' individual				
lnW*#/m ³ = Bsp.				
#/m ³ = Total mean monthly density/species				
Bsp = Total Daphnia (species) biomass				

Table E81. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for September 88.

	D. gal mend	D. schodleri	Leptodora
	1.40	1.92	6.30
	1.50	1.54	6.00
	1.34	2.02	3.60
	1.46	2.06	3.90
		1.04	2.60
		1.62	3.80
		1.60	4.20
		1.44	
		1.20	
		1.20	
		2.42	
		1.66	
		2.00	
		2.44	
		1.20	
		2.00	
		2.36	
		2.02	
		2.30	
		1.16	
		2.52	
		2.34	
		1.94	
		1.66	
		1.50	
		1.60	
		0.94	
		1.10	
		2.52	
		2.02	
		1.00	
		0.94	
		2.32	
		1.80	
		1.10	
		2.26	
		2.34	
		1.00	
		1.30	
		1.06	
		1.66	
		1.14	
		1.44	
		1.02	
AvL(mm)	1.43	1.69	4.34
SD	0.07	0.52	1.33
lnL(mm)	0.36	0.53	1.47
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	0.92	1.63	3.92
lna + blnL	2.43	3.93	3.10
exp -ln	11.31	51.12	22.18
lnW = ln a + b lnL			

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E82. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for October 88.

	D. gal mend	D. schodleri	Leptodora
	1.60	2.68	10.00
	1.80	1.36	3.10
	1.04	1.16	3.50
	1.10	1.98	3.60
	1.16	0.90	4.30
		0.92	9.30
		1.20	3.10
		1.06	8.00
		2.32	4.00
		1.66	4.00
		1.30	4.10
		1.36	4.10
		1.52	4.50
		1.46	4.50
		1.38	4.00
		1.56	4.30
		2.30	3.00
		1.40	4.90
		1.50	5.00
		1.42	2.80
		1.10	5.10
		1.86	5.00
		1.60	4.00
		1.60	4.50
		1.30	6.80
		1.12	
		2.06	
		2.62	
		2.40	
		2.80	
		2.58	
		2.84	
		2.76	
		2.56	
		1.18	
		2.08	
		1.76	
		1.78	
		3.30	
AvL(mm)	1.34	1.79	4.78
SD	0.34	0.63	1.85
lnL(mm)	0.29	0.58	1.56
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	0.75	1.80	4.18
lna + blnL	2.26	4.10	3.36
exp -ln	9.58	60.44	28.65
lnW = lna + b lnL			

lnW(-ln) = log of dry weight estimate (µg)/species' individuals

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E83. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for November 88.

D. schodleri

0.76
 0.78
0.78
0.80
 0.82
 0.82
 0.84
 0.84
 0.84
 0.86
 0.86
 0.86
 0.90
 0.90
 0.94
 0.96
 1.02
 1.08
 1.10
 1.10
 1.10
 1.10
 1.10
 1.14
 1.18
 1.20
 1.20
 1.20
 1.26
 1.30
 1.30
 1.32
 1.40
 1.48
 1.50
 1.50
 1.50
 1.66
 1.68
 1.72
 1.76
 1.76
 2.00
 2.06
 2.16
 2.16
 2.20
 2.20
 2.22
 2.28
 2.38
 2.40
 2.46
 2.46
 2.50
 2.52
 2.54
 2.54
 2.56
 2.58
 2.60
 2.62
 2.70

AvL(mm) 1.57
 SD 0.65
 lnL(mm) 0.92
 ln a 2.30
 b 3.10
 b ln L 6.50
 ln a + b ln L 5.16
 exp -ln 13.74

lnW = ln a + b ln L

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total *Daphnia* (species) biomass

Table E84. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for December 88.

D. schoedleri

	0.60
	0.80
	0.80
	0.06
	0.86
	0.92
	0.96
	0.96
	0.98
	1.00
	1.02
	1.06
	1.10
	1.14
	1.14
	1.16
	1.20
	1.20
	1.24
	1.24
	1.28
	1.28
	1.30
	1.30
	1.34
	1.38
	1.46
	1.46
	1.50
	1.50
	1.52
	1.60
	1.62
	1.64
	1.68
	1.70
	1.74
	1.80
	1.92
	1.96
	2.30
	2.46
	2.40
AvL(mm)	1.36
SD	0.43
lnL(mm)	0.31
lna	2.30
b	3.10
blnL	0.95
lna + b lnL	3.25
exp -ln	25.85
lnW = lna + b lnL	
lnW(-ln) = log of dry weight estimate (µg) species' individual	
lnW*#/m ³ = Bsp.	
#/m ³ = Total mean monthly density/species	
Bsp = Total <i>Daphnia</i> (species) biomass	

Table E85. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for January 89.

D. schodleri

	0.70
	0.72
	0.78
	1.08
	1.28
	1.30
	1.34
	1.34
	1.36
	1.40
	1.40
	1.40
	1.48
	1.50
	1.54
	1.56
	1.58
	1.70
	1.72
	1.72
	1.74
	1.78
	1.80
	1.80
	1.84
	1.90
	1.90
	1.92
	2.00
	2.04
	2.06
	2.08
	2.10
	2.10
	2.18
	2.20
	2.26
	2.40
	2.42
AvL(mm)	1.67
SD	0.43
lnL(mm)	0.51
lna	2.30
b	3.10
blnL	1.59
lna + blnL	3.89
exp -ln	48.72
lnW = lna + b lnL	
lnW(-ln) = log of dry weight estimate (µg)/species' individual	
lnW*#/m ³ = Bsp.	
#/m ³ = Total mean monthly density/species	
Bsp = Total Daphnia (speues) biomss	

Table E86. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for February 89.

D. gal mend D. retroc. D. schodleri Leptodora Daphnia

0.00

AvL(mm)

SD

lnL(mm)

lna

b

blnL

lna + blnL

exp -ln

lnW = lna + b lnL

lnW(-ln) = log of dry weight estimate (μg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E87. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for March 89.

D. gal mend D. retroc. D. schodleri Leptodora Daphnia

0.00

AvL(mm)

SD

lnL(mm)

lna

b

b lnL

lna + b lnL

exp -ln

lnW = lna + b lnL

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E88. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for April 89.

D. gal mend D. retroc. D. schodleri Leptodora Daphnia

0.00

AvL(mm)
SD
lnL(mm)
lna
b
b lnL
lna + b lnL
exp -ln
lnW = lna + b lnL
lnW(-ln) = log of dry weight estimate (µg)/species' individual
lnW*#/m³ = Bsp.
#/m³ = Total mean monthly density/species
Bsp = Total Daphnia (species) biomass

Table E89. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for May 89.

	D. gal mend	Leptodora
	0.64	0.68

AvL(mm)	0.64	0.68
SD	0.00	0.00
lnL(mm)	-0.45	-0.39
lna	2.30	-0.82
b	3.10	2.67
blnL	-1.38	-1.03
lna + blnL	0.92	-1.85
exp -ln	2.50	0.16

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W \cdot \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total *Daphnia* (species) biomass

Table E90. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for June 89.

	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
	1.60	1.40	1.74	1.40	8.00
	1.60	1.90	1.80	1.04	7.50
	1.30	1.76	1.82	1.80	4.20
	1.80	1.78	1.70	1.34	6.10
	1.40	1.68	1.20	2.00	3.50
	1.56	1.78	1.00	1.20	2.30
	1.76	1.30	1.84	1.80	2.60
	2.14	2.00	1.08	1.76	2.00
	0.68	0.68	1.54	2.16	2.00
	0.50	1.88	0.72	1.16	9.00
	2.00	1.58	1.26	1.64	4.00
	1.28	1.56	2.02	1.34	8.00
	1.68	1.08	1.70	1.64	3.10
	1.30	1.20	1.70	1.40	6.20
	1.92	1.50	1.80	2.18	2.20
	1.62	1.80	1.56	1.70	2.00
	1.40	1.80	1.70	1.80	2.30
	1.30	1.50	2.18	2.00	1.20
	1.90	1.16	1.28	2.08	6.60
	0.70	0.90	1.42	1.90	7.80
	1.00	0.60	0.80	1.70	4.50
	1.36	1.90	0.72		6.70
	1.16	1.36	1.02		2.50
	1.20	1.42	1.36		4.00
	1.46	1.28	1.54		2.10
	1.68	1.20	1.58		2.10
	1.60	1.36	1.96		3.20
	1.06	0.88	2.04		2.20
	1.10	1.40	1.94		2.80
	1.56	1.00	2.26		2.20
	1.12	1.00	2.00		2.10
	1.82	1.20	1.86		1.80
	1.56	1.16	1.98		3.00
	1.42	2.00	2.30		3.60
	1.60	0.68	1.90		7.00
	1.78		1.80		3.70
	1.76		1.66		
AvL(mm)	1.45	1.39	1.62	1.67	4.00
SD	0.37	0.39	0.42	0.33	2.24
lnL(mm)	0.37	0.33	0.48	0.51	1.39
lna	1.51	1.43	2.30	2.64	-0.82
b	2.56	3.13	3.10	2.54	2.67
blnL	0.95	1.03	1.49	1.30	3.70
lna + blnL	2.48	2.46	3.79	3.94	2.88
exp -ln	11.74	11.74	44.13	51.44	17.84
lnW = lna + b lnL					
lnW(-ln) = log of dry weight estimate (µg)/species' individual					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean monthly density/species					
Bsp = Total Daphnia (species) biomass					

Table E91. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for July 89.

	D. gal mend	D. retroc.	D. schodleri	D. thorata	beptodora
0.80	1.08		1.00	2.30	1.50
0.80	1.80		1.36	1.76	1.70
1.70	2.28		0.91	1.80	0.64
2.30	2.18		2.80	2.40	1.66
2.20	1.14		2.72	2.20	0.70
1.74	2.04		2.48	2.20	7.20
1.44	1.22		2.70	2.52	4.80
0.84	1.74		2.36	2.06	7.50
2.26	1.96		0.92	2.60	6.30
2.02	2.00		0.90	1.94	7.20
2.10	2.00		1.08	2.44	7.90
0.66	1.88		0.86	2.46	6.00
2.40	0.68		1.46	2.34	11.20
2.00	0.02		0.90	2.56	8.00
1.84	1.06		1.86	2.10	a.20
0.84	0.74		1.46	2.14	2.20
0.66	1.98		1.10	2.40	7.00
1.88	1.90		1.46	2.40	10.20
2.36	0.66		0.86	2.44	10.30
2.04	1.42		1.40	2.20	8.80
2.26	2.04		0.88	1.62	10.00
0.76	2.12		0.70	2.24	7.00
2.46	0.64		2.80	2.46	10.00
1.26	0.86		0.90	2.56	7.00
0.82	1.64		0.60	0.80	5.20
2.56	2.24		2.36	0.04	10.30
2.44	2.24		2.56	2.20	8.50
2.14	1.30		2.20	2.36	9.20
1.96	1.62		2.80	2.32	10.00
1.40	2.34		2.38	2.44	9.20
0.80	2.60		2.78		9.10
2.56			0.92		7.20
2.16			2.04		6.80
2.16					10.00
2.50					7.30
2.38					6.90
					7.60
					6.00
					1.00
					1.80
					10.00
					1.90
					1.80
					0.80
					9.30
					0.80
AvL(mm)	1.76	1.62	1.68	2.18	6.43
SD	0.65	0.58	0.80	0.43	3.34
lnL(mm)	0.57	0.48	0.52	0.78	1.86
lna	1.51	1.43	2.30	2.64	-0.82
b	2.56	3.13	3.10	2.54	2.67
blnL	1.45	1.51	1.60	1.98	4.97
lna + blnL	2.96	2.94	3.90	4.62	4.15
exp -ln	19.35	18.95	49.53	101.44	63.30
lnW = ln a + b ln L					
lnW(-ln) = log of dry weight estimate (µg)/species' individual					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean monthly density/species					
Bsp = Total Daphnia (species) biomass					

Table E92. Mean monthly Daphnia spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for August 89.

	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
1 08		2 04	1.14	2.51	1 30
0 74		0.80	1.24	2.52	7.00
0.50		1 96	1 50	1.90	4.00
0 90		0 78	1.36	2.98	11.40
0.04		1 60	1.62		5.50
1.10		2.12	1.08		5.50
1 8 0		1 06	0.90		7.60
1 32			0.50		7 50
1 20			2.00		8.10
1.08			1 38		6.00
1 00			1.10		3.00
2.00			2 20		7.80
1 20			1.10		5 30
2.16			1.26		2 50
1.48			1.18		7 60
0.78			2.22		2 30
0.94			2.30		7 50
0 80			1.29		7 00
1 00			1 32		6 80
1 14			1 40		8.00
1 06			2.20		8.50
0 84			1 08		6.30
1 70			1 26		9.30
0 04			1 32		8.50
2.00			1 72		1.20
2.28			1.22		1.40
1 54			2.00		7.00
2.50			2.64		2.40
1.52			3.28		10.20
			2.84		0.90
			2.20		10.00
			2.96		6.00
			2.24		6.20
			2.08		3.50
			1 02		8.30
			2.18		6.30
			1.90		7 00
			1.94		4.80
			1.76		8.20
			2.30		2.10
			1.10		4 00
			2.86		0.10
			2.26		8.40
			2.18		7.30
					4.30
					9.00
					4.70
					10.00
					4.20
					3.60
AvL(mm)	1.29	1.48	1.75	2.48	6.07
SD	0.52	0.59	0.64	0.44	2.65
lnL(mm)	0.25	0.39	0.56	0 91	1.80
lna	1.51	1.43	2.30	2.64	-0.82
b	2.56	3.13	3.10	2.54	2.67
blnL	0.65	1.23	1.73	2.30	4.81
lna + blnL	2.18	2.66	4.03	4.94	3.99
exp -ln	8.65	14.28	56.35	140.39	54.17
lnW = lna + b lnL					
lnW(-ln) = log of dry weight estimate (µg)/species' individual					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean zooplankton density/species					
Bsp = Total Daphnia (speaes) biomass					

Table E93. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for September 89.

	D.gal mend	D.schodleri	D.thorata
	0.98	0.92	1.92
	1.20	2.80	1.60
	1.20	1.84	1.10
	1.60	1.22	
	1.14	0.82	
	1.56	2.30	
	1.00	1.02	
	1.42	1.12	
	1.1B	1.30	
		1.74	
		2.34	
		1.32	
		2.82	
		1.14	
		1.46	
		1.86	
		1.08	
		1.60	
		1.00	
		2.00	
		1.00	
		1.68	
		2.00	
		0.90	
		2.76	
AvL(mm)	1.25	1.61	1.54
SD	0.22	0.63	0.41
lnL(mm)	0.23	0.48	0.43
lna	1.51	2.30	2.64
b	2.56	3.10	2.54
blnL	0.58	1.48	1.10
lna + blnL	2.09	3.78	3.74
exp -ln	8.07	43.62	41.96

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W \cdot \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total Daphnia (species) biomass

Table E94. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for October 89.

	D. gal mend	D. schodleri	Leptodora
	1.20	2.08	2.00
	1.16	1.50	2.00
	1.26	1.44	1.60
	1.26	1.28	2.00
		1.40	9.50
		1.46	3.80
		1.40	10.50
		1.40	3.80
		2.32	7.20
		1.98	8.10
		1.30	9.10
		2.44	2.70
		1.56	4.20
		1.76	4.80
		1.50	11 .00
		1.46	9.10
		1.10	
		1.80	
		2.32	
		2.30	
		-.80	
		2.34	
		2.44	
		2.70	
		1.14	
		1.06	
		1.14	
		2.00	
		0.94	
		1.80	
		2.20	
		2.54	
AvL(mm)	1.22	1.78	5.71
SD	0.05	0.53	3.40
lnL(mm)	0.20	0.58	1.74
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	0.51	1.78	4.65
lna + blnL	2.02	4.08	3.83
exp -ln	7.53	59.40	46.10
lnW = lna + b lnL			
lnW(-ln) = log of dry weight estimate (µg)/species' individual			
lnW*#/m³ = Bsp.			
#/m³ = Total mean monthly density/species			
Bsp = Total Daphnia (species) biomass			

Table E95. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for November 89.

	D.ambigua	D.retroc	D.schodleri	D.thorata	Leptodora
	0.62-	1.80	1.72	1.80	6.20
	1.00	0.90	0.90	1.76	
	1.50		1.20	1.66	
	1.42		1.42	1.74	
	0.90		0.62		
	0.80		1.10		
	0.60		0.82		
	1.00		0.94		
	0.64		2.60		
	0.82		2.48		
			1.60		
			0.94		
			2.36		
			0.90		
			1.34		
			1.10		
			1.36		
			1.44		
			2.66		
			2.00		
			0.74		
AvL(mm)	0.93	1.35	1.44	1.74	6.20
SD	0.32	0.64	0.64	0.06	0.00
lnL(mm)	-0.07	0.30	0.36	0.55	1.a2
lna	1.54	1.43	2.30	2.64	-0.82
b	2.29	3.13	3.10	2.54	2.67
blnL	-0.17	0.94	1.13	1.41	4.87
lna + blnL	1.37	2.37	3.43	4.05	4.05
exp -ln	3.95	10.71	30.89	57.22	57.37
lnW = lna + b lnL					
lnW(-ln) = lag of dry weight estimate (µg)/species' individual					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean monthly density/species					
Bsp = Total <i>Daphnia</i> (species) biomass					

Table E96. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Porcupine Bay for December 89.

	D.ambigua	D.schodleri
	0.76	1.66
	1 .00	2.00
	0.94	1.78
	0.84	1.50
		1.66
		1 .aa
		1.20
		1.28
		1.00
		1.92
		0.76
		0.80
		0.78
		2.38
		2.00
		1.68
		1.52
		0.78
		2.48
		2.26
		1.46
		0.76
		1.76
		2.20
		2.00
		2.62
		1.90
		2.12
		2.00
		2.00
		1.76
		1.70
		1.50
		1.16
		2.00
AvL(mm)	0.89	1.66
SD	0.11	0.51
lnL(mm)	-0.12	0.51
lna	1.54	2.30
b	2.29	3.10
blnL	-0.28	1.58
lna + blnL	1.26	3.88
exp -ln	3.53	48.41
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E97. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Little Falls Dam for August 88.

	D. gal mend	D. retroc.	Leptodora
	1.04	1.34	7.40
	2.00	1.30	5.00
	1.06	0.70	6.90
	1.24	1.20	3.90
	2.00	1.00	3.00
	1.24	0.70	4.80
	2.06	1.04	4.10
	0.96	1.34	3.20
	1.40	1.66	3.20
	1.80	1.32	7.00
	1.30	1.60	6.10
	1.48	1.66	3.80
	1.14	1.34	3.50
	1.72	1.80	3.80
	0.98	1.74	2.90
	2.04	1.36	3.80
	2.10	1.32	7.00
	1.62	1.20	4.00
	2.34	0.88	6.00
	2.32	1.66	4.00
	2.00	1.88	4.00
	1.00	0.92	4.10
		1.76	3.00
		1.20	3.40
		1.66	4.80
		1.48	
		1.88	
		1.86	
		1.74	
		1.74	
		1.26	
AvL(mm)	1.58	1.40	4.51
SD	0.47	0.34	1.41
lnL(mm)	0.46	0.34	1.51
lna	1.51	1.43	-0.82
b	2.56	3.13	2.67
blnL	1.18	1.06	4.02
lna + blnL	2.69	2.50	3.20
exp -ln	14.69	12.12	24.50

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W \cdot \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total Daphnia (species) biomass

Table E98. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Little Falls for October 88.

	D. gal mend	D. schoedleri
	1.14	1.48
	1.28	1.34
	1.06	1.10
	1.10	0.79
	1.28	1.10
	1.32	1.12
	1.42	1.14
	1.08	1.10
	1.50	1.40
	1.30	2.00
	1.22	2.04
	1.18	1.42
	0.94	1.22
	1.14	1.50
	0.96	1.42
	0.98	1.30
	1.08	1.06
	1.30	1.10
	1.50	1.12
	1.38	2.04
	0.92	1.56
	1.38	1.46
	1.30	1.60
	1.30	1.80
	0.80	
	0.88	
	1.90	
	1.26	
	1.88	
	2.16	
	1.24	
	2.16	
	1.44	
	1.74	
	1.60	
	1.26	
	2.20	
	2.06	
	1.86	
AvL(mm)	1.37	1.38
SD	0.37	0.33
lnL(mm)	0.32	0.32
lna	1.51	2.30
b	2.56	3.10
blnL	0.81	1.01
lna + b lnL	2.32	3.31
exp - ln	10.17	27.29
lnW = ln a + b ln L		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E99. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Little Falls for May 89.

D. gal mend
0.90
0.96

AvL(mm)	0.93
SD	0.04
lnL(mm)	-0.07
lna	1.51
b	2.56
blnL	-0.19
lna + blnL	1.32
exp -ln	3.76
lnW = lna + b lnL	
lnW(-ln) = log of dry weight estimate (µg)/species' individual	
lnW*#/m ³ = Bsp.	
#/m ³ = Total mean monthly density/species	
Bsp = Total <i>Daphnia</i> (species) biomass	

Table E100. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Little Falls for August 89.

	D. gal mend	D. retroc.	D. schodleri	D. thorata	Leptodora
	2.20	1.80	1.80	0.94	5.50
	1.10	1.40	1.42	1.86	4.40
	2.36	1.54	1.18	1.90	4.00
	1.08	0.98	1.40	1.40	4.80
	1.22	1.10	0.90	1.52	6.30
	1.68	0.80	2.00	2.14	
	1.40	2.10	1.02	2.14	
	0.96	1.00	1.00	1.62	
	1.20	0.94	0.94	2.00	
	1.42	0.96	0.96	1.40	
	0.86	0.98	0.88	2.08	
	0.90	1.72	0.94	1.06	
	0.80	1.80	1.12		
	0.90	1.56	1.18		
	2.10	1.50	1.36		
	1.00	1.70	1.74		
	1.66	1.50			
	1.76	0.90			
	1.54				
	1.66				
	1.86				
	1.00				
	1.00				
	1.16				
	1.40				
	1.08				
	1.62				
	2.00				
AvL(mm)	1.39	1.35	1.24	1.67	5.00
SD	0.44	0.39	0.35	0.41	0.91
lnL(mm)	0.33	0.30	0.22	0.51	1.61
lna	1.51	1.43	2.30	2.64	-0.82
b	2.56	3.13	3.10	2.54	2.67
blnL	0.84	0.94	0.67	1.31	4.30
lna + blnL	2.35	2.37	2.97	3.95	3.48
exp -ln	10.52	10.68	19.43	51.68	32.30
lnW = lna + b lnL					
lnW(-ln) = log of dry weight estimate (μg)/species' individual					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean monthly density					
Bsp = Total <i>Daphnia</i> (species) biomass					

Table E101. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Little Falls for October 89.

	D. gal mend	D. schodleri	Leptodora
	1.42	0.76	4.80
	1.24	0.82	3.30
		0.86	5.20
		0.88	4.00
		1.00	9.00
		1.08	6.50
		1.10	4.10
		1.20	3.00
		1.40	6.00
		1.40	3.30
		1.44	4.50
		1.50	7.20
		1.56	6.50
		1.58	4.20
		1.60	
		1.62	
		1.62	
		1.64	
		1.66	
		1.66	
		1.68	
		1.68	
		1.70	
		1.80	
		1.80	
		1.80	
		1.82	
		1.86	
		1.90	
		1.90	
		1.96	
		2.00	
		2.00	
		2.12	
		2.20	
		2.22	
		2.28	
AvL(mm)	1.33	1.60	5.11
SD	0.13	0.41	1.73
lnL(mm)	0.29	0.47	1.63
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	0.73	1.45	4.36
lna + blnL	2.24	3.75	3.54
exp -ln	9.39	42.60	34.31

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W^* \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total Daphnia (species) biomass

Table E102. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for August 88.

	D. gal mend	D. ret roc.	D. schodleri	Leptodora
	1.68	1.70	2.36	3.80
	1.86	1.38	1.44	5.20
	1.50	1.78	2.32	5.30
	0.96	1.52	2.36	4.00
	1.90		2.70	2.80
	2.20		2.00	3.70
	1.90		1.92	3.50
	2.24		1.42	4.80
	2.00		1.36	6.80
	2.42		2.00	7.80
	2.36		2.28	9.60
	1 .00		2.16	8.90
	1.08		2.60	3.50
	2.50		2.60	3.00
	1.92		2.26	3.00
	1.94		1.52	3.00
	2.08		1.92	4.00
	2.32		2.00	3.60
	1 .00		0.90	3.70
	1.16		2.30	4.00
	2.04		2.36	3.30
	1.56		2.56	
	1.96		2.58	
	1.10		1.40	
	1.76		2.72	
	0.92		2.44	
	2.36		1.34	
	1.90		1.32	
	1.90		2.46	
	1.36			
	0.96			
	2.22			
	1.72			
	0.96			
	0.94			
	1.36			
	1.66			
	1.90			
	2.12			
	1.96			
AvL(mm)	1.72	1.60	2.06	4.63
SD	0.49	0.18	0.51	1.99
lnL(mm)	0.54	0.47	0.72	1.53
lna	1.51	1.43	2.30	-0.82
b	2.56	3.13	3.10	2.67
blnL	1.38	1.46	2.23	4.09
lna + blnL	2.89	2.89	4.53	3.27
exp -ln	18.06	18.05	93.05	26.36
lnW = lna + b lnL				

lnW(-ln) = log of dry weight estimate (μg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E103. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for September 88.

	D.gal mend	D.schodleri
	1.22	2.00
	0.86	1.80
	1.72	1.80
	1.00	2.22
	1.32	2.16
	1.66	1.82
	1.60	1.22
	0.80	1.60
	0.76	2.30
		0.92
		1.42
		1.40
		1.28
		0.86
		2.46
		1.44
		1.10
		1.70
		1.70
		2.42
		1.48
		1.66
		2.50
		2.22
		1.48
		2.30
		2.48
		2.60
		0.86
		1.76
		1.66
		0.98
		1.62
		1.06
		2.12
		1.60
		1.86
		2.24
		1.88
		2.34
		2.22
		2.60
		0.90
		0.94
		1.00
		1.20
Av L(mm)	1.22	1.72
SD	0.38	0.53
lnL(mm)	0.20	0.54
lna	1.51	2.30
b	2.56	3.10
b lnL	0.50	1.68
lna + b lnL	2.01	3.98
exp -ln	7.46	53.71
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E104. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for October 88.

	D.gal mend	D.schodleri
	0.88	1.94
	1.46	1.20
	1.50	1.24
	1.68	2.22
	0.74	1.02
	1.70	1.40
	0.92	1.86
	1.26	2.80
	1.14	2.56
	1.12	1.16
	1.00	1.16
	0.76	2.08
		1.36
		1.92
		1.26
		2.02
		1.14
		1.12
		2.00
		2.76
		1.76
		2.22
		2.56
		1.28
		0.92
		1.12
		1.32
		0.76
Av L(mm)	1.18	1.65
SD	0.34	0.59
lnL(mm)	0.17	0.50
lna	1.51	2.30
b	2.56	3.10
b lnL	0.42	1.55
lna + b lnL	1.93	3.85
exp -ln	6.92	46.98
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E105. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for November 88.

	D.gal mend	D.schodleri
	0.92	2.36
	0.60	2.22
	1.70	1.86
	1.28	1.94
	0.70	1.98
	0.58	2.46
	1.22	1.54
		1.74
		2.26
		2.66
		2.62
		1.74
		0.86
		0.80
		2.18
		1.14
		2.30
		2.00
		1.86
		1.02
		1.36
		2.40
		2.24
		1.20
		1.60
		0.86
		2.02
Av L(mm)	1.00	1.82
SD	0.42	0.56
lnL(mm)	0.00	0.60
lna	1.51	2.30
b	2.56	3.10
blnL	0.00	1.86
lna + blnL	1.51	4.16
exp -ln	4.53	1.43

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individuals

$\ln W \cdot \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total *Daphnia* (species) biomass

Table E106. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for December 88.

	D.gal mend	D.schodleri
	1.20	1.96
		1.16
		1.22
		1.94
		0.64
		1.62
		2.34
		1.32
		0.84
		1.24
		1.28
		2.00
		1.30
		1.42
		2.02
		2.18
		0.74
		1.80
		0.86
		0.72
		2.50
		1.48
		1.10
		1.06
		1.20
		0.80
		1.30
		0.92
		1.90
AvL(mm)	1.20	1.41
SD	0.00	0.52
lnL(mm)	0.18	0.34
lna	1.51	2.30
b	2.56	3.10
blnL	0.47	1.06
lna + blnL	1.98	3.36
exp -ln	7.22	28.87
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E107. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for January 89.

	D.schodleri
	1.50
	1.64
	1.70
	1.50
	1.42
	1.46
	1.54
	1.78
	1.46
AvL(mm)	1.56
SD	0.12
lnL(mm)	0.44
lna	2.30
b	3.10
blnL	1.37
lna + blnL	3.67
exp -ln	9.24
lnW = lna + b lnL	
lnW(-ln) = log of dry weight estimate (μg)/species' individual	
lnW*#/m ³ = Bsp.	
#/m ³ = Total mean monthly density/species	
Bsp = Total Daphnia (species) biomass	

Table E108. Monthly mean *Daphnia* spp. length (mm) and biomass in Lake Roosevelt at Seven Bays for February 89.

D.ambigua D.gal mend D.retroc D.schodleri D.thorata Leptodora

0.00

AvL(mm)

SD

lnL(mm)

lna

b

blnL

lna + blnL

exp - ln

lnW = lna + b lnL

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E109. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for March 89.

D.ambigua D.gal mend D.retroc D.schodleri D.thorata Leptodora

0.00

AvL(mm)

SD

lnL(mm)

lna

b

b lnL

lna + b lnL

exp -ln

lnW = lna + b lnL

lnW(-ln) = log of dry weight estimate (μg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E110. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for April 89.

D.thorata
0.92

AvL(mm)	0.92
SD	0.00
lnL(mm)	-0.08
lna	2.30
b	3.10
blnL	-0.26
lna + blnL	0.89
exp -ln	2.44

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W \cdot \#/\text{m}^3 = \text{Bsp.}$

$\#/\text{m}^3 = \text{Total mean monthly density/species}$

$\text{Bsp} = \text{Total Daphnia (species) biomass}$

Table E11 1. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for May 1989.

	D.gal mend	D.retroc	D.schodleri	Leptodora
	1.26	0.45	1.20	8.00
	0.54	0.73	1.36	0.94
	0.58	0.71	1.70	1.20
			1.12	2.04
			1.16	1 .00
			0.50	3.28
			0.62	1 .00
			0.52	1.56
			0.68	2.28
			0.48	1 .00
			0.56	2.36
				1.20
				0.76
				0.80
				1.66
				1.52
				1.16
				2.22
				1.04
				2.04
				2.48
AvL(mm)	0.80	0.63	0.90	1.88
SD	0.42	0.16	0.42	1.56
lnL(mm)	-0.22	-0.46	-0.11	0.63
lna	1.51	1.43	2.30	-0.82
b	2.56	3.13	3.10	2.67
blnL	-0.57	-1.45	-0.33	1.69
lna + blnL	0.94	-0.01	1.97	0.87
exp -ln	2.56	0.99	7.19	2.38
lnW = lna + b lnL				
lnW(-ln) = log of dry weight estimate (µg)/species' individual				
lnW*#/m ³ = Bsp.				
#/m ³ = Total mean monthly density/species				
Bsp = Total Daphnia (species) biomass				

Table EI 12. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for June 89.

	D.gal mend	D.retroc	D.schodleri	D.thorata	Leptodora
	1 20	1 46	1 90	1 60	5 30
	1 60	1 70	2 04	1 90	2 50
	1 10	0 66	1 94	1 90	5 00
	1 58	1 26	2 20	1 78	2 10
	1 14	0 80	1 70	1 66	9 10
	1 16	2 06	2 00	1 04	5 40
	1 40	2 02	1 32	1 90	9 00
	1 46	1 50	1 00	1 92	4 20
	0 60	1 06	0 64	1 74	3 00
	1 84	1 70	0 66	1 60	4 20
	2 00	1 24	1 66	1 94	4 30
	2 00	0 62	1 70	1 42	4 40
	1 76	1 70	0 90	0 76	3 80
	1 62	1 42	1 92	2 06	5 60
	1 12	1 66	2 00	1 64	3 00
	2 00	1 00	1 94	1 06	4 00
	1 18	0 66	1 66	1 92	5 10
	1 66	1 08	1 50	1 46	3 00
	1 14	0 62	1 24	2 06	6 10
	1 16	0 78	2 06	1 30	6 20
	1 60	1 92	1 62	1 66	3 00
	0 96	1 10	1 66	1 26	6 30
	0 76	1 10	1 92	1 74	4 50
	0 96	1 40	2 10	1 36	4 00
	0 90	1 10	2 24	1 78	9 20
	0 92	1 36	2 20	0 80	2 60
	1 60	1 74	2 20	0 62	7 20
	1 20	1 72		0 86	2 10
	1 50	1 60		1 04	2 20
	0 60	1 60		2 26	6 20
	0 60	1 46		2 24	3 90
	1 88			2 14	5 20
	1 94			1 50	5 20
	2 26			1 48	0 96
	1 88			2 06	0 60
	1 22				4 70
	1 32				5 10
	1 56				1 60
	1 92				3 50
	1 50				0 60
	1 50				0 60
	1 46				0 42
	1 46				2 50
	1 10				5 30
	1 54				3 60
	2 00				2 60
	1 40				2 50
	1 40				6 10
					4 30
					3 10
					3 00
					2 00
					2 10
					2 30
					1 80
					3 50
					4 00
					4 30
					6 30
					2 00
					1 40
					2 30
					2 80
					4 20
					0 96
					0 60
					1 00
					0 90
					1 10
					4 30
					3 00
					4 00
					5 60
					3 90
AvL(mm)	1.41	1.35	1.73	1.62	3.72
SD	0.41	0.43	0.43	0.42	2.06
lnL(mm)	-0.34	0.30	0.55	0.48	1.31
lna	1.51	1.43	2.30	2.64	-0.62
b	2.56	3.13	3.10	2.54	2.67
binL	-0.88	0.95	1.70	1.22	3.51
lna + binL	2.39	1.36	4.00	3.66	2.66
exp -LN	10.92	3.88	5461	47.42	14.65
lnW = ln a + b ln L					
lnW(-ln) = log of dry weight estimate (µg/species individual)					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean monthly density/species					
Bsp = Total Daphnia (species) biomass					

Table E113. Mean monthly *Daphnia* spp. lengths and biomass in lake Roosevelt at Seven Bays for July 89.

	D.gal mend	D.retroc	D.schodleri	D.thorata	Leptodora
	2.36	1.70	2.28	2.62	5.30
	1.68	1.a2	0.92	2.42	2.50
	0.82	2.64	0.92	2.10	2.30
	0.88	0.88	1.90	2.48	7.50
	0.78	1.30	1.46	2.20	6.80
	1.70	0.74	2.70	2.40	7.00
	2.06	1.10	2.24	2.60	a.50
	2.38	0.70	3.32	2.10	a.1 0
	2.66	1.80	1.74	1.46	2.10
	0.80	1.98	1.16	2.22	4.00
	1.90	0.84	2.14	2.18	a.40
	1.72	1.30	1.12	2.36	6.30
	0.76	1.40	2.72	2.12	7.30
	0.80	1.90	2.62	2.58	a.00
	1.40	2.50	1.92	2.46	a.20
	1.80	2.02	2.80	0.50	4.80
	2.40	2.44	2.28	2.38	6.30
	1.40	2.60	2.40	2.62	7.00
	2.88	2.62	3.00	1.88	3.50
	2.08	2.00	0.90	2.32	a.30
	2.16	1.56	2.50	2.50	6.00
	1.70	1.52	0.94	2.10	7.00
	1.70	1.40	1.46	2.10	6.20
	2.02	2.40	0.50	2.16	10.00
	2.10	2.44	2.72	1.96	0.90
	2.32	2.66	0.96	2.46	10.20
	1.34		2.96	2.02	11.60
	2.00		0.94	2.42	3.00
	0.76				7.60
	2.68				a.1 0
	0.78				7.80
	2.18				6.00
	0.62				5.50
					7.50
					5.50
					7.60
					4.00
					7.00
					11.40
					1.30
AvL(mm)	1.69	1.78	1.91	2.20	6.41
SD	0.67	0.64	0.81	0.42	2.57
lnL(mm)	0.52	0.58	0.65	0.79	1.86
lna	1.51	1.43	2.30	2.64	-0.82
b	2.56	3.13	3.10	2.54	2.67
blnL	1.34	1.80	2.01	2.01	4.96
lna + blnL	2.85	3.24	4.31	4.65	4.14
exp -ln	17.23	25.41	74.32	104.34	62.71
lnW = lna + b lnI					
lnW(-ln) = log of dry weight estimate (µg)/species' individual					
lnW*#/m³ = Bsp.					
#/m³ = Total mean monthly density/species					
Bsp = Total Daphnia (species) biomass					

Table EI 14. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for August 89.

	D.gai mend	D.retroc	D.schodleri	D.thorata	Leptodora
	1.60	1.92	1.00	1.94	7.10
	1.60	1.68	2.16	2.00	6.00
	1.96	1.20	2.28	2.30	4.00
	1.12	1.54	1.10	2.02	a.00
	0.98	1.56	2.48	2.40	4.10
	0.82	1.50	1.92	2.44	9.20
	0.84	2.30	0.94	2.38	3.90
	1.46	1.60	2.96	2.06	7.40
	1.14	1.72	2.70	2.44	3.40
	2.32	1.76	1.54	2.30	3.00
	0.96	1.70	1.90	2.08	5.10
	0.90	1.a2	1.a2	0.56	10.20
	0.76	1.72	2.58	2.42	4.70
	0.90		2.54	0.90	5.10
	1.32		2.96	2.22	5.50
	2.30		1.a2	1.90	a.50
	0.80		2.46	2.42	5.20
	1.92		1.34	2.58	6.10
	1.28		1.10	0.76	3.10
	1.14		3.16	1.60	3.60
	0.86		0.86		7.10
	0.80		2.54		4.10
	1.36		1.30		3.40
	1.80				2.90
	0.74				a.20
	2.06				3.30
	2.02				8.00
	0.92				8.80
	0.80				5.70
	0.86				7.30
	1.76				3.30
	1.40				3.10
	1.50				4.50
	2.40				
	1.70				
	0.90				
	1.66				
	2.40				
	1.00				
AvL(mm)	1.36	1.69	1.98	1.99	5.54
SD	0.52	0.25	0.72	0.59	2.13
lnL(mm)	0.31	0.53	0.68	0.69	1.71
lna	1.51	1.43	2.30	2.64	-0.82
b	.56	3.13	3.10	2.54	2.67
blnL	0.79	1.65	2.12	1.74	4.57
lna + blnL	2.30	3.08	4.42	4.38	3.75
exp -ln	9.96	21.78	83.12	80.06	42.53
lnW = lna + b lnL					

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E115. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for September 89

	D.gal mend	D.schodleri	D.thorata	Leptodora
	1 .oa	2.74	2.10	1.70
	0.60	1.26		3.40
		1.12		
		1.10		
		1.88		
		2.52		
		2.46		
		2.34		
		0.90		
		1.16		
		2.40		
		0.92		
		1.14		
		1.14		
		1 .oa		
		0.90		
		2.00		
		2.24		
		2.42		
		1.54		
		0.86		
		1.26		
		2.30		
		2.76		
		2.00		
		1.16		
		0.86		
		1.20		
		1.20		
		1.24		
		3.02		
		0.90		
		1.28		
		2.32		
		2.30		
		1.46		
		2.78		
AvL(mm)	0.84	1.68	2.10	2.55
SD	0.34	0.69	0.00	1.20
lnL(mm)	-0.17	0.52	0.74	0.94
lna	1.51	2.30	2.64	-0.82
b	2.56	3.10	2.54	2.67
blnL	-0.45	1.61	1.88	2.50
lna + blnL	1.06	3.91	4.52	1.68
exp -ln	2.90	49.81	92.25	5.35

$\ln W = \ln a + b \ln L$

$\ln W(-\ln) = \log$ of dry weight estimate (μg)/species' individual

$\ln W \cdot \# / \text{m}^3 = \text{Bsp.}$

$\# / \text{m}^3 = \text{Total mean monthly density/species}$

Bsp = Total *Daphnia* (species) biomass

Table E11 6. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for October 89.

	D.gal mend	D.schodleri
	1.46	1.96
	1.10	1.04
	1.80	1.78
	0.78	1.40
	0.70	0.90
		2.46
		1.08
		1.06
		1.50
		1.68
		1.90
		1.30
		2.70
		2.40
		1.90
		2.00
		2.30
		2.18
		1.20
		0.88
		2.58
AvL(mm)	1.17	1.72
SD	0.46	0.58
lnL(mm)	0.16	0.54
lna	1.51	2.30
b	2.56	3.10
blnL	0.40	1.69
lna + blnL	1.91	3.99
exp -ln	6.74	53.95
lnW = lna + b ln l		
lnW(-ln) = log of dry weight estimate (μg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E117. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for November 89.

	D.ambigua	D.schodleri	Leptodora
	0.62	2.14	9.20
	0.62	2.38	10.20
	0.82	0.86	10.30
	0.84	0.96	8.50
		2.30	8.80
		2.26	8.00
		2.86	6.10
		1.92	7.10
		2.22	7.00
		2.48	10.00
		2.50	7.00
		1.60	9.80
		1.30	8.10
		2.64	7.90
		2.32	6.30
AvL(mm)	0.73	2.05	8.29
SD	0.12	0.60	1.41
lnL(mm)	-0.32	0.72	2.11
lna	1.54	2.30	-0.82
b	2.29	3.10	2.67
blnL	-0.74	2.22	5.65
lna + blnL	0.80	4.52	4.82
exp -ln	2.23	92.23	124.48
lnW = lna + b lnL			
lnW(-ln) = log of dry weight estimate (µg)/species' individual			
lnW*#/m ³ = Bsp.			
#/m ³ = Total mean monthly density/species			
Bsp = Total Daphnia (species) biomass			

Table E118. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Seven Bays for December 89.

	D.schodleri	D.thorata	Leptodora
	1.90	1.68	1.50
	1.96	1.56	9.30
	2.76	2.06	6.30
	2.34		7.90
	1.64		6.10
	2.50		5.00
	2.32		7.50
	1.42		7.30
	1.14		7.40
	2.04		7.30
	1.76		5.70
	2.14		6.30
	2.22		6.30
	2.24		9.10
	2.64		8.10
	1.30		8.30
	2.64		8.00
	1.54		7.00
	2.66		5.80
	1.10		7.10
	1.04		7.60
	2.12		7.20
			7.00
			10.10
			8.10
AvL(mm)	1.97	1.77	7.09
SD	0.54	0.26	1.65
lnL(mm)	0.68	0.57	1.96
lna	2.30	2.64	-0.82
b	3.10	2.54	2.67
blnL	2.11	1.45	5.23
lna + blnL	4.41	4.09	4.41
exp -ln	82.07	59.47	82.31
lnW = lna + b lnL			

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E119. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Keller Ferry for August 88.

	D. gal mend	D. schodleri	Leptodora
	1.64	2.20	7.00
	1.64	2.00	6.20
	1.62	2.36	7.10
	2.00	2.08	3.80
	1.90	2.68	3.40
	1.70	0.68	1.40
	1.76	1.90	2.30
	1.24	1.96	
	1.50	2.32	
	1.70	1.80	
	2.00	2.04	
	2.00	1.60	
	1.96	1.90	
	1.96	2.46	
	1 .a4	0.88	
	1.64	1.56	
	1 .a4	1.70	
	1.74	2.08	
	0.94	2.44	
	1.96	0.98	
	2.36	1.76	
	2.04	1.80	
	1.96	1.36	
	1.96	2.20	
	1.88	1.74	
	1.80	1.14	
	1.60	2.00	
	2.04	2.40	
		1.46	
		1.46	
		2.36	
		2.44	
		2.40	
		1.90	
AvL(mm)	1.79	1.88	4.46
SD	0.27	0.49	2.31
lnL(mm)	0.58	0.63	1.49
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
b lnL	1.50	1.96	3.99
lna + b lnL	3.01	4.26	3.17
exp -ln	20.20	71.01	23.77

$\ln W = \ln a + b \ln L$

$\ln W(-\ln)$ = log of dry weight estimate (μg)/species' individual

$\ln W \cdot \# / \text{m}^3$ = Bsp.

$\# / \text{m}^3$ = Total mean monthly density/species

Bsp = Total *Daphnia* (species) biomass

Table E120. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Keller Ferry for October 88.

	D. gal mend	D. schodleri
	1.16	2.20
	1.54	2.20
	1.26	1.20
	1.08	1.86
	1.52	1.52
	0.90	1.12
	1.34	1.00
	0.00	2.28
	1.46	1.06
	1.50	1.30
	1.68	1.62
	0.92	1.50
	1.26	1.20
	1.12	1.02
		1.24
		1.16
		1.16
		1.10
		1.66
		1.42
		2.10
		2.08
		2.12
		1.20
		2.66
		1.04
		1.36
		1.58
		1.72
		1.08
		1.12
		1.46
		1.46
		1.20
		1.30
		1.54
		1.20
		1.02
		2.14
		2.46
		2.26
		2.00
		2.08
		2.38
		2.30
		1.08
AvL(mm)	1.26	1.58
SD	0.26	0.49
lnL(mm)	0.23	0.46
lna	1.51	2.30
b	2.56	3.10
blnL	0.59	1.42
lna + blnL	2.10	3.72
exp -ln	8.15	41.36
lnW = ln a + b lnL		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total <i>Daphnia</i> (species) biomass		

Table E121. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Keller Ferry for May 89.

D. schoedleri
1.28

AvL(mm)	1.28
SD	0.00
lnL(mm)	0.23
lna	2.30
b	3.10
blnL	0.72
lna + blnL	3.02
exp -ln	20.42
lnW = lna + b lnL	
lnW(-ln) = log of dry weight estimate (μg)/species' individual	
lnW*#/m ³ = Bsp.	
#/m ³ = Total mean monthly density/species	
Bsp = Total Daphnia (species) biomass	

Table E122. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Keller Ferry for August 89.

	D. gal mend	D. schodleri	D. thorata
	0.66	2.40	2.30
	2.00	0.96	1.70
	1.74	2.36	1.80
	2.02	0.92	1.86
	1.86	1.90	2.12
	2.08	2.56	1.70
	0.94	2.56	1.80
	1.80	2.60	2.06
	2.20	0.86	1.84
	1.96	0.96	2.00
	1.98	2.68	1.26
	1.92	2.36	1.94
	1.94	2.76	2.12
	1.04	2.28	1.96
	1.70	2.16	
	1.94	1.64	
	1.26	1.34	
	1.86	2.38	
	1.68	2.12	
		2.58	
		1.82	
		0.96	
		2.20	
		1.18	
		2.36	
		2.56	
		1.08	
		1.50	
		1.70	
AvL(mm)	1.72	1.92	1.89
SD	0.43	0.64	0.25
lnL(mm)	0.54	0.65	0.64
lna	1.51	2.30	2.64
b	2.58	3.10	2.54
blnL	1.38	2.03	1.62
lna + blnL	2.89	4.33	4.26
exp -ln	18.03	75.61	70.59
lnW = lna + b lnL			

lnW(-ln) = log of dry weight estimate (µg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E123. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Keller Ferry for October 89.

	D. ambigua	D. schodleri	D. thorata
	0.90	2.70	0.70
		1.70	
		1.26	
		1.28	
		1.30	
		2.04	
		1.60	
		1.20	
		1.48	
		1.22	
		1.20	
		1.50	
		1.24	
		1.14	
		1.08	
		1.40	
		1.66	
		1.40	
		1.50	
		1.80	
		1.60	
		1.40	
		2.52	
		1.38	
		1.50	
		1.46	
		1.74	
		1.56	
		1.52	
		2.00	
		1.76	
		2.40	
		2.32	
		2.50	
		2.50	
		2.50	
		2.42	
		1.10	
		2.34	
AvL(mm)	0.90	1.70	0.70
SD	0.00	0.48	0.00
lnL(mm)	-0.11	0.53	-0.36
lna	1.54	2.30	2.84
b	2.29	3.10	2.54
blnL	-0.24	1.64	-0.91
lna + blnL	1.30	3.94	1.73
exp -ln	3.66	51.48	5.66

$lnW = lna + b lnL$

lnW(-ln) = log of dry weight estimate (μ g)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E124. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at San Poil Arm for August 88.

	D. gal mend	D. schodleri	Leptodora
	1.50	2.32	8.00
	1.46	1.96	8.00
	1.74	2.48	8.70
	1.32	1.70	2.10
	2.08	2.22	18.00
	1.60	1.58	10.00
	2.40	1.58	12.00
	2.04	2.26	13.30
		2.02	11.70
		2.14	10.70
		1.76	8.80
		2.10	7.50
		2.66	9.80
		2.48	6.80
		1.92	8.60
		2.30	9.40
		1.08	3.80
		2.10	3.80
		1.36	3.80
		2.14	3.80
		2.32	2.90
		2.46	8.80
		1.40	8.80
		1.00	9.00
		1.80	8.70
		2.66	7.80
		2.48	7.00
		2.62	
		2.22	
		2.38	
		2.56	
		1.74	
		2.40	
		2.66	
		2.42	
		1.08	
		1.80	
		2.44	
		1.20	
		1.82	
		2.30	
		1.10	
		1.50	
		1.40	
		0.86	
		1.70	
AvL(mm)	1.77	1.98	8.21
SD	0.37	0.51	3.46
lnL(mm)	0.57	0.67	2.11
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	1.46	2.09	5.62
lna + blnL	2.97	4.39	4.60
exp -ln	19.45	80.81	121.32
lnW = lna + b lnL			
lnW(-ln) = log of dry weight estimate (µg)/species' individual			
lnW*#/m ³ = Bsp.			
#/m ³ = Total mean monthly density/species			
Bsp = Total Daphnia (species) biomass			

Table E125. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at San Poil Arm for October 88.

	D. gal mend	D. schodleri	Leptodora
	0.90	2.12	3.90
		1.14	3.30
		1.80	11 .00
		2.16	4.60
		2.08	3.60
		2.22	2.80
		2.30	3.30
		1.70	7.80
		1.10	10.40
		1.52	11 .00
		1.20	4.00
		1.96	5.00
		1.48	4.80
		1.52	4.80
		2.04	3.50
		1.14	10.00
		1.30	4.70
		2.10	8.80
		1.92	
		1.28	
		2.00	
		2.00	
		1.72	
		1.52	
		1.02	
		1.12	
		1 .00	
		1.44	
		2.00	
		1 .00	
		1.82	
		1.84	
		1.80	
		1.26	
		1.14	
AvL(mm)	0.90	1.62	5.96
SD	0.00	0.41	2.96
lnL(mm)	-0.11	0.48	1.79
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	-0.27	1.50	4.77
lna + blnL	1.24	3.80	3.94
exp -ln	3.46	44.65	51.66
lnW = lna + b lnL			

lnW(-ln) = log of dry weight estimate (μg)/species' individual

lnW*#/m³ = Bsp.

#/m³ = Total mean monthly density/species

Bsp = Total Daphnia (species) biomass

Table E126. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at San Poil Arm for May 89.

	D. ambigua	Leptodora
	0.48	2.60
	1.38	2.30
	1.50	1.25
		2.90
		2.60
		2.70
AvL(mm)	1.12	2.39
SD	0.56	0.59
lnL(mm)	0.11	0.87
lna	1.54	-0.82
b	2.29	2.67
blnL	0.26	2.33
lna + blnL	1.80	1.51
exp -ln	6.05	4.51
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (μg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E127. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at San Poi Arm for August 89.

	D. gal mend	D. schodleri	D. thorata	Leptodora
	1.04	2.26	2.30	3.30
	1.44	2.64	2.14	3.10
	2.00	1.26	1.28	
	1.24	1.86	1.84	
	1.00	1.10		
	1.42	2.18		
	1.10	1.04		
	1.02	1.30		
	2.14	2.46		
		2.40		
		1.90		
		2.24		
		2.30		
		2.44		
		2.30		
		2.96		
		2.66		
		0.62		
		2.16		
		2.96		
		2.50		
		1.60		
		1.10		
		2.80		
AvL(mm)	1.42	2.05	1.89	3.20
SD	0.45	0.65	0.45	0.14
lnL(mm)	0.35	0.72	0.64	1.16
lna	1.51	2.30	2.64	-0.82
b	2.56	3.10	2.54	2.67
blnL	0.90	2.23	1.62	3.11
lna + blnL	2.41	4.53	4.26	2.28
exp -ln	11.15	92.56	70.59	9.81
lnW = lna + b lnL				
lnW(-ln) = log of dry weight estimate (µg)/species' individual				
lnW*#/m ³ = Bsp.				
#/m ³ = Total mean monthly density/species				
Bsp = Total Daphnia (species) biomass				

Table E128. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at San Poil Arm for October 89.

	D. ambigua	D. gal mend	D. schodleri	D. thorata	Leptodora
	0.90	1.20	0.84	1.46	2.30
	1.10		0.88		10.80
	0.96		1.10		11.00
			1.18		11.30
			1.20		
			1.24		
			1.36		
			1.38		
			1.40		
			1.40		
			1.40		
			1.42		
			1.42		
			1.46		
			1.48		
			1.50		
			1.50		
			1.54		
			1.54		
			1.56		
			1.56		
			1.58		
			1.60		
			1.68		
			1.72		
			1.80		
			1.82		
			1.90		
			2.10		
			2.10		
			2.14		
			2.16		
			2.30		
			2.34		
			2.42		
			2.74		
			2.96		
			3.00		
AvL(mm)	0.99	1.20	1.70	1.46	8.85
SD	0.10	0.00	0.52	0.00	4.37
lnL(mm)	-0.01	0.18	0.53	0.38	2.18
lna	1.54	1.51	2.30	2.64	-0.62
b	2.29	2.56	3.10	2.54	2.67
blnL	-0.03	0.47	1.64	0.96	5.82
lna + blnL	1.51	1.98	3.94	3.60	5.00
exp -ln	4.52	7.22	51.67	36.64	148.37
lnW = lna + b lnL					
lnW(-ln) = log of dry weight estimate (µg)/species' individual					
lnW*#/m ³ = Bsp.					
#/m ³ = Total mean monthly density/species					
Bsp = Total Daphnia (species) biomass					

Table E129. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Spring Canyon for August 88.

	D. gal mend	D. schodleri	Leptodora
	1.80	2.28	3.80
	1.78	1.70	3.80
	1.98	2.42	4.00
	1.72	2.28	4.00
	1.92	1.92	8.00
	1.76	0.92	2.60
	1.44	1.90	3.00
	1.50	2.12	3.00
	1.70	3.32	3.00
	1.62	0.94	3.00
	1.42	2.30	3.00
		2.30	3.20
		1.86	3.80
		1.84	6.60
		1.18	
		1.72	
		2.42	
		1.00	
		2.16	
AvL(mm)	1.69	1.93	3.91
SD	0.18	0.60	1.53
lnL(mm)	0.53	0.66	1.36
lna	1.51	2.30	-0.82
b	2.56	3.10	2.67
blnL	1.35	2.03	3.64
lna + blnL	2.86	4.33	2.82
exp -ln	17.46	76.00	16.80
lnW = lna + b lnL			
lnW(-ln) = log of dry weight estimate (µg)/species' individual			
lnW*#/m ³ = Bsp.			
#/m ³ = Total mean monthly density/species			
Bsp = Total Daphnia (species) biomass			

Table E130. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Spring Canyon for May 89.

	D. schodleri	Leptodora
	1.24	2.30
	1.66	1.00
		1.30
		2.50
		2.00
		1.20
		1.70
		1.60
		0.60
AvL(mm)	1.45	1.58
SD	0.30	0.62
lnL(mm)	0.37	0.46
lna	2.30	-0.82
b	3.10	2.67
blnL	1.15	1.22
lna + blnL	3.45	0.40
exp -ln	31.56	1.49
lnW = lna + b lnL		
lnW(-ln) = log of dry weight estimate (µg)/species' individual		
lnW*#/m ³ = Bsp.		
#/m ³ = Total mean monthly density/species		
Bsp = Total Daphnia (species) biomass		

Table E131. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Spring Canyon for August 89.

	D. gal mend	D. schodleri	D. thorata
	1.80	1.46	2.00
	2.08	1.10	2.12
	2.06	1.46	2.12
	1.0a	0.98	1.40
	1.80	0.82	2.06
	2.14	1.70	2.00
	2.10	1.68	
	1.60	1.56	
	2.10	1.64	
	2.00	1.40	
	1.24	2.32	
	2.24	1.80	
		2.70	
		1.50	
		1.50	
		2.62	
		2.74	
		2.54	
		1.60	
		2.20	
		2.30	
		1.44	
		1.72	
		1.50	
		2.36	
		2.64	
		2.58	
AvL(mm)	1.a5	1.85	1.95
SD	0.37	0.56	0.27
lnL(mm)	0.62	0.61	0.67
lna	1.51	2.30	1.43
b	2.56	3.10	3.13
b lnL	1.58	1.90	2.09
lna + b lnL	3.09	4.20	3.52
exp -ln	21.97	66.79	33.85
lnW = lna + b lnL			
lnW(-ln) = log of dry weight estimate (µg)/species' individual			
lnW*#/m ³ = Bsp.			
#/m ³ = Total mean monthly density/species			
Bsp = Total Daphnia (species) biomass			

Table E132. Mean monthly *Daphnia* spp. lengths and biomass in Lake Roosevelt at Spring Canyon for October 89.

	D. schoedleri
	2.20
	1.24
	2.44
	1.20
	1.50
	1.96
	1.84
	2.00
	1.50
	1.28
	1.28
	2.14
	1.28
	1.34
	1.70
	0.86
	1.16
	1.90
	2.00
	2.00
	2.10
	1.64
	1.40
	2.26
	2.04
	2.60
	1.40
	1.60
	1.44
	0.82
	2.00
	2.10
	2.10
	2.14
	2.46
	2.40
AvL(mm)	1.76
SD	0.46
lnL(mm)	0.56
lna	2.30
b	3.10
blnL	1.75
lna + blnL	4.05
exp -ln	57.43
lnW = lna + b lnL	
lnW(-ln) = log of dry weight estimate (µg)/species' individual	
lnW*#/m ³ = Bsp.	
#/m ³ = Total mean monthly density/species	
Bsp = Total Daphnia (species) biomass	

APPENDIX F

FISH FEEDING HABITS
DATA

Table F1. The annual food preferences of 0+ rainbow trout from Lake Roosevelt in August, 1988.

PREY ITEM	RAINBOW TROUT (N=11)					
	NUMBER ($\bar{X} \pm \text{S.D.}$) (%)		WEIGHT (mg) ($\bar{X} \pm \text{S.D.}$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	0.18±(0.60)	0.05	0.01±(0.02)	3.50	9.09	2.10
Cyprinidae	0.55±(1.81)	0.14	0.1±(0.18)	37.01	9.09	7.70
Unidentified fish	0.64±(1.57)	0.17	0.08±(0.14)	28.15	18.18	7.74
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	364.64±(479.6)	96.28	0.05±(0.05)	18.86	81.82	32.9
<i>Daphnia thorata</i>	2.0±(2.97)	0.53	0.0001±(0.0002)	0.05	36.36	6.15
EUCOPEPODA (copepods)						
Cyclops spp.	0.36±(0.81)	0.1	0.0004±(0.0007)	0.14	18.18	3.07
Epischura spp.	1.27±(3.58)	0.34	0.0006±(0.001)	0.20	27.27	4.63
DIPTERA (midges)						
Chironomidae pupae	3.91±(11.33)	1.03	0.0005±(0.008)	0.17	45.45	7.77
Chironomidae larvae	0.45±(0.69)	0.12	0.0006±(0.0007)	0.23	36.36	6.11
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.18±(0.40)	0.05	0.001±(0.002)	0.34	18.18	3.09
HEMIPTERA (bugs)						
Corixidae	1.45±(2.98)	0.38	0.007±(0.008)	2.31	36.36	6.50
OLIGOCHEATA (worms)						
Lumbricoides	1.36±(4.52)	0.36	0.02±(0.03)	7.10	9.09	2.76
HYDRACHNELLAE (spider)						
Hydracarina	1.09±(2.98)	0.29	0.0004±(0.0008)	0.14	27.27	4.61
OTHER:						
Terrestrial	0.55±(1.21)	0.14	0.004±(0.01)	1.53	18.18	3.31
Unidentifiable bodies	0.09±(0.30)	0.02	0.001±(0.001)	0.26	9.09	1.56

Table F2. The annual food preferences of 1+ rainbow trout from Lake Roosevelt in August, 1988.

KEY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
RAINBOW TROUT (N=42)						
PELagic (fish)						
Cottidae	0.17±(1.08)	0.02	0.00±(0.0005)	0.0	2.38	0.45
Unidentified fish	0.1±(0.62)	0.01	0.0008±(0.002)	0.14	2.38	0.47
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	448.43±(883.44)	58.53	0.08±(0.13)	14.98	78.57	28.3
<i>Daphnia thorata</i>	0.43±(2.23)	0.06	0.007±(0.02)	1.19	4.76	1.13
<i>Daphnia galeata mendota</i>	0.38±(1.85)	0.05	0.004±(0.01)	0.74	4.76	1.04
<i>Leptodora kindtii</i>	309.36±(618.37)	40.38	0.12±(0.16)	21.79	57.14	22.37
<i>Eurycerus lamellatus</i>	0.05±(0.31)	0.01	0.0003±(0.001)	0.06	2.38	0.46
<i>Sida crystallina</i>	0.07±(0.46)	0.01	0.0004±(0.001)	0.07	2.38	0.46
COPEPODA (copepods)						
Cyclops spp.	0.24±(1.27)	0.03	0.0005±(0.002)	0.1	4.76	0.92
Epischura spp.	0.88±(3.98)	0.11	0.0007±(0.002)	0.12	7.14	1.38
DIPTERA (midges)						
Chironomidae pupae	1.93±(2.93)	0.25	0.01±(0.02)	2.07	52.38	10.26
Chironomidae larvae	0.57±(2.12)	0.07	0.0003±(0.0005)	0.06	9.52	1.61
PLECOPTERA (stoneflies)						
Capniidae	0.02±(0.15)	0.0	0.0±(0.0008)	0.0	2.38	0.45
Nemouridae	0.02±(0.15)	0.0	0.0±(0.0001)	0.01	2.38	0.45
HEMIPTERA (bugs)						
Corixidae	2.14±(7.91)	0.28	0.01±(0.02)	2.35	21.43	4.51
EPHEMEROPTERA (mayflies)						
Ephemerellidae	0.02±(0.15)	0.0	0.0003±(0.0008)	0.06	2.38	0.46
OLIGOCHETA (worms)						
Lumbricoides	0.02±(0.15)	0.0	0.19±(0.49)	33.17	2.38	6.67
HYDRACHNELLAE (spider)						
Hydracarina	0.14±(0.57)	0.0	0.0007±(0.001)	0.12	7.14	1.37
OTHER:						
Cestoda	0.02±(0.15)	0.0	0.03±(0.07)	4.51	2.38	1.29
Terrestrial	0.79±(2.17)	0.1	0.1±(0.25)	17.04	30.95	9.01
Organic Detritus	0.17±(0.44)	0.0	0.001±(0.002)	0.14	14.29	2.71
Inorganic Detritus	0.05±(0.31)	0.0	0.0002±(0.0005)	0.03	2.38	0.45
Unidentifiable bodies	0.19±(0.51)	0.0	0.007±(0.01)	1.26	16.67	3.4

Table F3. The annual food preferences of 2+ rainbow trout from Lake Roosevelt in August, 1988.

PREY ITEM	RAINBOW TROUT (N=19)					
	NUMBER (X±S.D.)	%	WEIGHT (mg) (X±S.D.)	%	OCCURRENCE %	IRI (%)
OSTEICHTHYES (fish)						
Catostomidae	0.89±(3.07)	0.18	1.01±(2.25)	15.25	10.53	5.87
Cottidae	19.16±(49.11)	3.88	4.4±(9.9)	67.28	21.05	20.86
Cyprinidae	0.53±(1.58)	0.11	0.5±(1.12)	7.65	10.53	4.14
Percidae	0.32±(1.16)	0.06	0.43±(0.96)	6.58	10.53	3.88
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	224.1±(933.9)	45.39	0.06±(0.09)	1.01	47.37	21.21
<i>L. eptodora kindtii</i>	237.4±(648.8)	48.1	0.04±(0.09)	0.68	31.58	18.17
BASOMMATOPHORA (snarl)						
Lymnaidae	0.05±(0.23)	0.01	0.01±(0.02)	0.15	5.26	1.23
DIPTERA (midges)						
Chironomidae pupae	2.79±(5.14)	0.57	0.002±(0.003)	0.02	36.84	8.47
Chironomidae larvae	1.05±(2.5)	0.21	0.001±(0.002)	0.02	26.32	6.01
HEMIPTERA (bugs)						
Corixidae	7.05±(28.86)	1.43	0.02±(0.05)	0.30	10.53	2.77
EPHEMEROPTERA (may-flies)						
Baetidae	0.05±(0.23)	0.01	0.01±(0.02)	0.13	10.53	2.41
OTHER:						
Terrestrial	0.11±(0.32)	0.02	0.02±(0.03)	0.25	5.26	1.25
Inorganic Detritus	0.05±(0.23)	0.01	0.04±(0.1)	0.67	5.26	1.34
Unidentifiable bodies	0.11±(0.32)	0.02	0.0004±(0.0008)	0.01	10.53	2.39

Table F4. The annual food preferences of 3+ rainbow trout from Lake Roosevelt in August, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
OSTEICHTHYES (fish) Cottidae	0.08±(0.29)	0.04	0.002±(0.003)	0.53	8.33	1.39
CLADOCERA (water fleas) Daphnia <i>schødleri</i> <i>Leptodora kindtii</i>	77.6±(191.02) 102.3±(189.0)	38.86 51.21	0.013±(0.02) 0.03±(0.05)	3.33 7.89	41.67 33.33	13.1 14.4
BASOMMATOPHORA (snarl) Lymnidae Planorbidae	0.42±(1.44) 0.08±(0.29)	0.21 0.04	0.07±(0.14) 0.009±(0.02)	17.41 2.13	8.33 8.33	4.04 1.64
DIPTERA (midges) Chironomidae pupae Chironomidae larvae Stratiomyidae	2.6±(3.9) 4.6±(7.1) 0.17(0.58)	1.29 2.30 0.08	0.004±(0.007) 0.01±(0.02) 0.0003±(0.0007)	0.07 2.78 0.08	50.0 66.67 8.33	8.13 11.2 1.32
TRICOPTERA (caddisflies) Hydroptilidae	0.08±(0.29)	0.04	0.0±(0.0001)	0.01	8.33	1.31
HEMIPTERA (bugs) Corixidae	7.5±(12.36)	3.76	0.21±(0.41)	53.57	50.0	16.7
EPHEMEROPTERA (mayflies) Baetidae	0.25±(0.62)	0.13	0.0005±(0.001)	0.13	16.67	2.64
HYDRACHNELLAE (spider) Hydracarina	0.58±(1.16)	0.29	0.00007±(0.001)	0.18	25.0	4.0
OTHER: Terrestrial Organic Detritus Unidentifiable bodies	1.83±(4.0) 0.67±(1.15) 1.0±(1.21)	0.92 0.33 0.5	0.007±(0.01) 0.03±(0.06) 0.009±(0.02)	1.64 7.14 2.29	33.33 33.33 50.0	5.6 6.36 8.23

Table F5. The annual food preferences of 4+ rainbow trout from Lake Roosevelt in August, 1988.

PREY ITEM	RAINBOW TROUT (N=3)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE %	IRI %
OSTEICHTHYES (fish)						
Cottidae	11.3±(9.87)	23.94	2.1±(3.0)	23.27	66.67	17.1
Cyprinidae	9.33±(8.33)	19.72	4.1±(5.9)	45.71	66.67	19.85
Unidentified fish	12.33±(10.97)	26.06	2.8±(3.9)	30.41	66.67	18.46
BASOMMATOPHORA (snarl)						
Lymnaidae	0.33±(0.58)	0.70	0.03±(0.04)	0.31	33.33	5.16
DIPTERA (midges)						
Chironomidae pupae	0.67±(1.15)	1.41	0.002±(0.003)	0.02	33.33	5.22
HEMIPTERA (bugs)						
Corixidae	11.0±(19.05)	23.24	0.02±(0.02)	0.19	33.33	8.53
EPHEMEROPTERA (mayflies)						
Baetidae	0.33±(0.58)	0.70	0.0007±(0.0009)	0.01	33.33	5.11
COLEOPTERA (beetles)						
Elmidae	0.33±(0.58)	0.70	0.001±(0.002)	0.01	33.33	5.11
HYDRACHNELLULA (spider)						
Hydracarina	0.33±(0.58)	0.70	0.0007±(0.001)	0.01	33.33	5.11
OTHER:						
Terrestrial	1.0±(1.73)	2.11	0.0002±(0.0003)	0.0	33.33	5.32
Unidentifiable bodies	0.33±(0.58)	0.70	0.006±(0.009)	0.07	33.33	5.03

Table F6. The annual food preferences of 0+ rainbow trout from Lake Roosevelt in October, 1988.

PREY ITEM	RAINBOW TROUT (N=9)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
CLADOCERA (water fleas) <i>Daphnia schodleri</i>	67.0 (172.1)	78.93	0.005 ± (0.01)	24.31	22.22	16.68
BASOMMATOPHORA (snarl) Lymnaidae	0.11 ± (0.33)	0.13	0.0 ± (0.0004)	0.05	11.11	1.74
DIPTERA (midges) Chironomidae pupae Chironomidae larvae	8.22 ± (8.27) 2.22 ± (1.48)	9.69 2.62	0.002 ± (0.007) 0.002 ± (0.007)	8.29 8.29	77.78 77.78	14.73 12.38
TRICOPTERA (caddisflies) Hydropsychidae Psychomyiidae Polycentropidae	1.11 f (1.83) 2.0 ± (3.91) 0.33 ± (0.71)	1.31 2.36 0.39	0.0006 ± (0.002) 0.002 ± (0.005) 0.0002 ± (0.0007)	0.05 2.85 10.10	33.33 33.33 22.22	5.77 7.05 3.71
PLECOPTERA (stoneflies) Capniidae	0.11 ± (0.33)	0.13	0.0 ± (0.0)	0.05	11.11	1.74
HEMIPTERA (bugs) Corixidae	0.67 ± (1.66)	0.79	0.0003 ± (0.001)	1.10	22.22	3.78
EPHEMEROPTERA (mayflies) Baetidae Ephemerellidae Heptagenidae	0.11 f (0.33) 0.11 ± (0.33) 0.44 ± (1.33)	0.13 0.13 0.52	0.0 ± (0.001) 0.0 ± (0.0007) 0.0 ± (0.0006)	0.05 0.05 0.05	11.11 11.11 11.11	1.74 1.74 1.79
OLIGOCHEATA (worms) Lumbricoides	0.44 ± (1.33)	0.52	0.008 ± (0.02)	40.56	11.11	8.03
OTHER: Terrestrial Organic Detritus Unidentifiable bodies	0.67 ± (1.32) 0.11 f (0.33) 1.22 ± (0.83)	0.79 0.13 1.44	0.0 ± (0.001) 0.0 ± (0.0001) 0.002 ± (0.003)	0.05 0.05 10.76	33.33 11.11 66.67	5.26 1.74 12.14

Table F7. The annual food preferences of 1+ rainbow trout from Lake Roosevelt in October, 1988.

PRN ITEM	RAINBOW TROUT (N=35)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI %
ISTEICHTHYES (fish)						
Centrarchidae	0.03±(0.17)	0.0	0.018±(0.11)	4.42	3.33	1.22
Cottidae	0.03±(0.17)	0.0	0.0006±(0.004)	0.15	3.33	0.55
Percidae	0.20±(1.02)	0.01	0.21±(1.03)	50.44	6.67	9.0
Unidentified fish	0.03±(0.17)	0.0	0.02±(0.12)	4.74	3.33	1.27
MPHIPODA (scuds)						
Hyalella	0.03±(0.17)	0.0	0.0±(0.0002)	0.0	3.33	0.52
SOPODA (sow bugs)						
Asellus	0.03±(0.17)	0.0	0.0±(0.0003)	0.01	3.33	0.53
LADOCERA (water fleas)						
<i>Daphnia schødleri</i>	1993.8±(2412.6)	91.97	0.14±(0.17)	33.78	103.33	36.1
<i>Daphnia thorata</i>	2.91±(16.9)	0.13	0.0±(0.0002)	0.01	6.67	1.07
<i>Daphnia galeata mendota</i>	2.31±(7.87)	0.11	0.0±(0.0004)	0.0	16.67	2.64
<i>Leptodora kindtii</i>	24.8±(92.69)	1.14	0.003±(0.01)	0.63	40.0	6.58
<i>Aloa spp.</i>	0.11±(0.68)	0.01	0.0±(0.0006)	0.0	3.33	0.53
<i>Chydorus spp.</i>	0.09±(0.51)	0.0	0.0±(0.0002)	0.0	3.33	0.52
<i>Eurycerus lamellatus</i>	1.29±(5.15)	0.06	0.0±(0.0001)	0.0	16.67	2.63
<i>Sida crystallina</i>	0.06±(0.34)	0.0	0.0±(0.0)	0.0	3.33	0.52
COPEPODA (copepods)						
Cyclops	0.06±(0.34)	0.0	0.0±(0.0004)	0.0	3.33	0.52
Diaptomus	0.34±(1.59)	0.02	0.0±(0.0002)	0.0	6.67	1.10
Epischura	132.03±(780.9)	6.09	0.003±(0.02)	0.66	6.67	2.11
MALACOPHORA (snail)						
Physidae	0.03±(0.17)	0.0	0.0005±(0.003)	0.12	3.33	0.54
DIPTERA (midges)						
Chironomidae pupae	3.8±(13.47)	0.18	0.0004±(0.003)	0.09	36.67	5.94
Chironomidae larvae	2.23±(8.43)	0.10	0.0±(0.0009)	0.0	36.67	5.79
Tipulidae pupae	0.03±(0.17)	0.0	0.0±(0.0)	0.0	3.33	0.52
Tabanidae	0.03±(0.17)	0.0	0.0009±(0.005)	0.22	3.33	0.56
TRICOPTERA (caddisflies)						
Hydroptilidae	0.03±(0.17)	0.0	0.0±(0.0001)	0.0	3.33	0.52
HEMIPTERA (bugs)						
Corixidae	0.31±(0.83)	0.01	0.0±(0.0004)	0.02	16.67	2.63
EPHEMEROPTERA (mayflies)						
Saetidae	0.14±(0.69)	0.01	0.0±(0.0004)	0.0	6.67	1.10
HYDRACHNELLAE (spider)						
Hydracarina	0.06±(0.24)	0.0	0.0±(0.0004)	0.0	6.67	1.10
OTHER:						
Cestoda	0.03±(0.17)	0.0	0.0±(0.0005)	0.0	3.33	0.52
Terrestrial	2.49±(8.68)	0.11	0.003±(0.008)	0.6	40.0	6.41
Organic Detritus	0.23±(0.49)	0.01	0.001±(0.004)	0.21	23.33	3.72
Inorganic Detritus	0.17±(0.45)	0.01	0.01±(0.05)	3.0	16.67	3.12
Unidentifiable bodies	0.11±(0.40)	0.01	0.003±(0.008)	0.7	10.0	0.28

Table F8. The annual food preferences of 2+ rainbow trout from Lake Roosevelt in October, 1988.

PREY ITEM	RAINBOW TROUT (N=27)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Unidentified fish	0.07±(0.38)	0.0	0.06±(0.32)	17.5	3.70	3.92
AMPHIPODA (scuds)						
Gammarus	0.04±(0.19)	0.0	0.0±(0.0)	0.0	3.70	0.68
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	1991.9±(3339.5)	96.17	0.13±(0.23)	36.13	66.67	36.8
<i>Daphnia thorata</i>	31.59±(110.21)	1.53	0.0001±(0.0006)	0.03	11.11	2.34
<i>Daphnia retrocurva</i>	0.04±(0.19)	0.0	0.0±(0.0)	0	3.70	0.68
<i>Daphnia galeata mendota</i>	5.26±(24.15)	0.25	0.0001±(0.0007)	0.04	7.41	1.42
<i>Leptodora kindtii</i>	38.22±(167.11)	1.80	0.003±(0.01)	0.9	18.52	3.9
<i>Chydorus spp.</i>	0.07±(0.27)	0.0	0.0±(0.0007)	0.0	7.41	1.37
EUCOPEPODA (copepods)						
<i>Epischura spp.</i>	0.11±(0.42)	0.01	0.0±(0.0008)	0.0	7.41	1.37
BASOMMATOPHORA (snarl)						
Lymnidae	0.04±(0.19)	0.0	0.0±(0.0)	0.0	3.70	0.68
Planorbidae	0.04±(0.19)	0.0	0.0±(0.0003)	0.02	3.70	0.69
Physidae	0.04±(0.19)	0.0	0.001±(0.006)	0.31	3.70	0.72
MOLLUSKA (clam)						
Sphaeriidae	0.04±(0.19)	0.0	0.0±(0.0)	0.0	3.70	0.68
DIPTERA (midges)						
Chironomidae pupae	0.70±(1.81)	0.03	0.003±(0.016)	0.88	22.22	4.27
Chironomidae larvae	1.07±(2.22)	0.05	0.0±(0.001)	0.0	37.04	7.0
Tipulidae larvae	0.11±(0.42)	0.01	0.0±(0.0003)	0.01	7.41	1.37
TRICOPTERA (caddisflies)						
Leptoceridae	0.07±(0.38)	0.0	0.0±(0.0002)	0.0	3.70	0.68
Hydropsychidae	0.04±(0.19)	0.0	0.0±(0.0003)	0.02	3.70	0.69
Hydroptilidae	0.04±(0.19)	0.0	0.0±(0.01)	0.71	3.70	0.81
Brachycentridae	0.04±(0.19)	0.0	0.0±(0.0)	0.0	3.70	0.68
HEMIPTERA (bugs)						
Corixidae	0.19±(0.48)	0.0	0.0003±(0.001)	0.03	14.81	2.75
EPHEMEROPTERA (mayflies)						
Ephemerellidae	0.81±(3.06)	0.04	0.0002±(0.0006)	0.05	11.11	2.07
Trichorythidae	0.07±(0.38)	0.0	0.0±(0.0)	0.0	3.70	0.69
HYDRACHNELLAE (spider)						
Hydracarina	0.07±(0.38)	0.0	0.0±(0.0002)	0.0	3.70	0.69
OTHER:						
Terrestrial	0.37±(1.08)	0.0	0.002±(0.01)	0.62	14.81	2.85
Organic Detritus	1.0±(1.18)	0.0	0.15±(0.43)	42.3	51.85	17.4
Inorganic Detritus	0.04±(0.19)	0.0	0.0±(0.0)	0.0	3.70	0.69
Unidentifiable bodies	0.15±(0.46)	0.0	0.001±(0.005)	0.2	11.11	2.1

Table F9. The annual food preferences of 3+ rainbow trout from Lake Roosevelt in October, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
OSTEICHTHYES (fish)						
Unidentified fish	0.12±(0.49)	0.0	0.013±(0.054)	4.0	5.56	1.72
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	2420.2±(4599.9)	0.5	0.17±(0.31)	51.20	77.78	40.0
<i>Daphnia thorata</i>	0.12±(0.49)	0.0	0.0±(0.0)	0.0	5.56	1.0
<i>Leptodora kindtii</i>	241.8±(965.8)	9.05	0.02±(0.07)	5.88	33.33	8.69
<i>Alona spp.</i>	1.47±(6.06)	0.06	0.0±(0.0001)	0.01	5.56	1.01
<i>Chydorus spp.</i>	1.41±(5.82)	0.05	0.0±(0.001)	0.0	5.56	1.0
<i>Eurycerus lamellatus</i>	0.12±(0.49)	0.0	0.0±(0.0)	0.0	5.56	1.0
EUCOPEPODA (copepods)						
<i>Epischura spp.</i>	0.12±(0.49)	0.0	0.0±(0.0001)	0.0	5.56	1.0
BASOMMATOPHORA (snail)						
Lymnaidae	0.06±(0.24)	0.0	0.002±(0.007)	0.54	5.56	1.1
Planorbidae	0.65±(2.67)	0.02	0.0007±(0.003)	0.23	5.56	1.1
WOLLUSKA (clam)						
Sphaeriidae	0.06±(0.24)	0.0	0.009±(0.04)	2.74	5.56	1.49
DIPTERA (midges)						
Chironomidae pupae	0.12±(0.33)	0.0	0.0±(0.0005)	0.0	11.11	2.0
Chironomidae larvae	4.12±(9.01)	0.15	0.002±(0.005)	0.49	44.44	8.11
TRICOPTERA (caddisflies)						
Hydropsychidae	0.18±(0.53)	0.01	0.0001±(0.0003)	0.04	11.11	2.0
HEMIPTERA (bugs)						
Corixidae	0.06±(0.24)	0.0	0.0±(0.0003)	0.03	5.56	1.01
ODONATA (dragonflies)						
Zygoptera	0.29±(0.99)	0.01	0.0005±(0.002)	0.15	11.11	2.03
OLIGOCHETA (worms)						
Lumbricoides	0.06±(0.24)	0.0	0.0±(0.0002)	0.01	5.56	1.0
HYDRACHNELLAE (spider)						
Hydracarina	1.18±(3.86)	0.04	0.0002±(0.001)	0.06	22.22	4.02
OTHER:						
Terrestrial	0.29±(0.59)	0.01	0.0004±(0.003)	0.14	22.22	4.03
Organic Detritus	0.59±(0.94)	0.02	0.05±(0.17)	16.5	33.33	8.91
Inorganic Detritus	0.18±(0.39)	0.01	0.05±(0.18)	15.2	16.67	5.75
Unidentifiable bodies	0.24±(0.66)	0.01	0.009±(0.04)	2.6	11.11	2.48

Table F10. The annual food preferences of 4+ rainbow trout from Lake Roosevelt in October, 1988.

PREY ITEM	RAINBOW TROUT (N=13)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish) Unidentified fish	0.08±(0.28)	0.02	0.008±(0.03)	0.39	7.69	1.53
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	387.690±(750.02)	78.05	1.95±(6.92)	97.24	84.62	48.97
<i>leptodora kindtii</i>	97.85±(225.2)	19.70	0.008±(0.02)	0.40	23.08	8.14
<i>Eurycerus lamellatus</i>	0.08±(0.28)	0.02	0.0±(0.0)	0.0	7.69	1.45
EUCOPEPODA (copepods) Epischura spp.	4.15±(14.98)	0.84	0.0±(0.0)	0	7.69	1.61
DIPTERA (midges)						
Chironomidae pupae	0.31±(0.85)	0.06	0.0001±(0.0006)	0.01	15.38	2.91
Chironomidae larvae	1.85±(5.23)	0.37	0.0008±(0.002)	0.04	30.77	5.87
Sciomyzida	0.08±(0.28)	0.02	0.0004±(0.002)	0.02	7.69	1.46
Heleomyzidae	0.23±(0.83)	0.05	0.0002±(0.0008)	0.01	7.69	1.46
HEMIPTERA (bugs) Corixidae	1.0±(2.48)	0.20	0.003±(0.01)	0.18	30.77	5.87
ODONATA (dragonflies) Zygoptera	0.08±(0.28)	0.02	0.0±(0.0005)	0.0	7.69	1.45
OTHER:						
Terrestrial	2.23±(3.59)	0.45	0.008±(0.02)	0.4	30.77	5.96
Organic Detritus	0.69±(0.95)	0.14	0.01±(0.2)	0.58	46.15	8.83
Inorganic Detritus	0.08±(0.28)	0.02	0.0002±(0.0008)	0.01	7.69	1.45
Unidentifiable bodies	0.31±(0.85)	0.06	0.01 f(0.04)	0.7	15.38	3.04

Table F11. The annual food preferences of 5+ rainbow trout from Lake Roosevelt in October 1988.

PREY ITEM	RAINBOW TROUT (N=2)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	140.5±(191.63)	88.64	0.003±(0.005)	4.42	100.0	27.6
<i>Leptodora kindtii</i>	1.0±(1.41)	0.63	0.0±(0.0002)	0.07	50.0	7.24
<i>Alona spp.</i>	0.50±(0.71)	0.32	0.0008±(0.001)	1.16	50.0	7.35
BASOMMATOPHORA (snail)						
Lymnaidae	0.50±(0.71)	0.32	0.0±(0.001)	0.07	50.0	7.20
DIPTERA (midges)						
Chironomidae pupae	0.50±(0.71)	0.32	0.0008±(0.001)	1.09	50.0	7.34
Chironomidae larvae	13.0±(18.38)	8.20	0.001±(0.002)	2.11	50.0	8.62
TRICOPTERA (caddisflies)						
Hydroptilidae	0.50±(0.71)	0.32	0.0±(0.002)	0.07	50.0	7.20
HYDRACHNELLAE (spider)						
Hydracarina	1.50±(2.12)	0.95	0.0±(0.0007)	0.07	50.0	7.30
OTHER:						
Organic Detritus	0.50±(0.71)	0.32	0.07±(0.09)	90.95	50.0	20.2

Table F12. The annual food preferences of 0+ rainbow trout from Lake Roosevelt in May, 1989.

PREY ITEM	RAINBOW TROUT (N=14)					
	NUMBER (X±S.D.)	(%)	WEIGHT (mg) (X±S.D.)	(%)	OCCURRENCE (%)	IRI (%)
CLADOCERA (water fleas) <i>Daphnia schodleri</i>	6.93±(25.92)	26.65	0.001±(0.005)	1.78	7.14	6.82
DIPTERA (midges)						
Chironomidae pupae	8.21±(24.15)	31.59	0.002±(0.007)	2.77	21.43	10.69
Chironomidae larvae	3.43±(11.22)	13.19	0.0009±(0.003)	1.15	14.29	5.56
TRICOPTERA (caddisflies)						
Hydropsychidae	0.21±(0.80)	0.82	0.0005±(0.002)	0.58	7.14	1.64
Brachycentridae	1.21±(3.14)	4.67	0.001±(0.003)	1.29	14.29	3.88
HEMIPTERA (bugs)						
Corixidae	0.36±(0.63)	1.37	0.003±(0.01)	3.2	28.57	6.35
EPHEMEROPTERA (mayflies)						
Baetidae	0.07±(0.27)	0.27	0.1ef(0.0003)	0.01	7.14	1.42
Ephemerellidae	0.07±(0.27)	0.27	0.0±(0.0003)	0.11	7.14	1.44
Heptagenidae	0.5±(1.87)	1.92	0.0003±(0.001)	0.37	50.0	10.02
ODONATA (dragonflies)						
Zygoptera	0.21±(0.8)	0.82	0.0003±(0.001)	0.41	7.14	1.60
HYDRACHNELLAE (spider)						
Hydracarina	0.07±(0.27)	0.27	0.0±(0.0)	0.03	7.14	1.43
OTHER:						
Terrestrial	3.14±(7.1)	12.09	0.008±(0.03)	10.36	57.14	15.25
Organic Detritus	1.0f(0.96)	3.85	0.05±(0.11)	60.28	57.14	23.24
Unidentifiable bodies	0.57±(0.85)	2.20	0.01f(0.031)	17.66	35.71	10.65

Table F13. The annual food preferences of 1+ rainbow trout from Lake Roosevelt in May, 1989.

PREY ITEM	RAINBOW TROUT (N=16)				OCCURRENCE (%)	IRI (%)
	NUMBER (X±S.D.)	(%)	WEIGHT (mg) (X±S.D.)	(%)		
AMPHIPODA (scuds)						
Gammarus	0.06±(0.25)	0.06	0.0±(0.0)	0.01	62.5	1.42
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	86.5±(127.98)	78.68	0.009±(0.01)	9.52	56.25	32.54
<i>Leptodora kindtii</i>	0.06±(0.25)	0.06	0.0±(0.0005)	0.01	62.5	1.42
DIPTERA (midges)						
Chironomidae pupae	9.56±(27.03)	8.70	0.005±(0.01)	5.12	31.25	10.15
Chironomidae larvae	1.88±(4.59)	1.71	0.0±(0.0007)	0.01	31.25	7.43
HEMIPTERA (bugs)						
Corixidae	1.19±(3.37)	1.08	0.0007±(0.002)	0.80	62.5	1.83
COLEOPTERA (beetles)						
Elmidae	0.19±(0.75)	0.17	0.0004±(0.002)	0.50	62.5	1.56
HYDRACHNELLAE (spider)						
Hydracarina	0.50±(1.75)	0.45	0.0±(0.0002)	0.01	12.5	2.92
OTHER:						
Terrestrial	9.81±(16.09)	8.93	0.07±(0.13)	78.46	62.5	33.76
Organic Detritus	0.38±(0.72)	0.34	0.005±(0.01)	5.57	25.0	6.96

Table F14. The annual food preferences of 2+ rainbow trout from Lake Roosevelt in May, 1989.

PREY ITEM	RAINBOW TROUT (N=8)					
	NUMBER (X±S.D.)	(%)	WEIGHT (mg) (X±S.D.)	(%)	OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Fish eggs	264.75±(748.83)	36.85	0.64±(1.811)	28.19	12.50	11.28
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	8.38±(23.69)	1.17	0.001±(0.003)	0.05	12.50	5.76
DIPTERA (mrdges)						
Chironomidae pupae	14.0±(24.25)	1.95	0.003±(0.005)	0.12	37.5	6.49
Chironomidae larvae	405.63±(1127.14)	56.46	0.06±(0.16)	2.63	50.0	15.87
Tipulidae pupae	0.50±(0.93)	0.07	0.0007±(0.001)	0.03	25.0	3.65
Tipulidae larvae	1.75±(4.95)	0.24	0.002±(0.006)	0.09	12.5	1.87
Simuliidae larvae	13.25±(37.48)	1.84	0.005±(0.015)	0.24	12.5	2.12
TRICOPTERA (caddisflies)						
Hydropsychidae	0.25±(0.71)	0.03	0.001±(0.002)	0.06	12.5	1.83
Brachycentridae	0.25±(0.71)	0.03	0.002±(0.005)	0.09	12.5	1.84
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.13±(0.35)	0.02	0.01±(0.03)	0.4	12.5	1.89
HEMIPTERA (bugs)						
Corixidae	0.88±(1.46)	0.12	0.002±(0.005)	0.1	37.5	5.49
EPHEMEROPTERA (may-flies)						
Baetidae	0.38±(1.06)	0.05	0.001±(0.004)	0.06	37.5	5.47
ODONATA (dragonflies)						
Zygoptera	0.13±(0.35)	0.02	0.0005±(0.001)	0.02	12.5	1.82
COLEOPTERA (beetles)						
Elmidae	0.13±(0.35)	0.02	0.0±(0.0001)	0.0	12.5	1.82
OTHER:						
Terrestrial	5.0±(11.38)	0.7	0.06±(0.16)	2.4	50.0	7.74
Organic Detritus	1.88±(1.25)	0.26	1.20±(2.52)	52.83	75.0	18.63
Inorganic Detritus	0.38±(0.74)	0.05	0.26±(0.60)	11.46	25.0	5.31
Unidentifiable bodies	0.75±(1.16)	0.1	0.02±(0.05)	1.06	37.5	5.62

Table F15. The annual food preferences of 3+ rainbow trout from Lake Roosevelt in May, 1989.

PREY ITEM	RAINBOW TROUT (N=9)				OCCURRENCE (%)	IRI (%)
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)			
OSTEICHTHYES (fish)						
Unidentified fish	0.11±(0.33)	0.11	0.006±(0.02)	0.37	11.11	2.61
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	12.22±(24.27)	12.32	0.003±(0.007)	0.16	22.22	7.79
DIPTERA (midges)						
Chironomidae pupae	2.44±(6.25)	2.46	0.0004±(0.002)	0.03	33.33	8.06
Chironomidae larvae	2.0±(2.35)	2.02	0.11±(0.3)	6.68	55.56	14.46
HEMIPTERA (bugs)						
Corixidae	0.11f(0.33)	0.11	0.0005±(0.0001)	0.0	11.11	2.53
ODONATA (dragonflies)						
Zygoptera	0.11f(0.33)	0.11	0.0004±(0.001)	0.02	11.11	2.53
OTHER:						
Terrestrial	81.22±(126.73)	81.86	1.39±(3.31)	85.57	44.44	47.68
Organic Detritus	0.67±(1.12)	0.67	0.07±(0.14)	4.37	33.33	8.64
Inorganic Detritus	0.33±(0.71)	0.34	0.05±(0.08)	2.80	22.22	5.71

Table F16. The annual food preferences of 4+ rainbow trout from Lake Roosevelt in May 1989.

PREY ITEM	RAINBOW TROUT (N=23)					
	NUMBER (X±S.D.)	%	WEIGHT (mn) (X±S.D.)	(%)	OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Unidentified fish	0.04±(0.21)	0.01	0.007±(0.03)	0.28	43.5	0.87
Fish eggs	1321.74±(1595.49)	15.33	1.58±(2.83)	68.13	39.13	37.24
SOPODA (sow bugs)						
Asellus	0.13±(0.63)	0.02	0.002±(0.01)	0.1	4.35	0.84
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	2.48±(11.89)	0.29	0.002±(0.007)	0.08	8.70	1.71
DECAPODA (crayfish)						
Pacifasticus	0.04±(0.21)	0.01	0.008±(0.04)	0.34	4.35	0.89
ASOMMATOPHORA (snail)						
Lymnaidae	0.04±(0.21)	0.01	0.002±(0.008)	0.06	4.35	0.83
MOLLUSKA (clam)						
Sphaeriidae	0.13±(0.46)	0.02	0.0008±(0.003)	0.03	8.70	1.65
DIPTERA (midges)						
Chironomidae pupae	0.09±(0.42)	0.01	0.0002±(0.0008)	0.01	8.70	1.64
Chironomidae larvae	1.04±(3.25)	0.12	0.0005±(0.003)	0.02	17.39	3.30
Tipulidae pupae	1.26±(2.90)	0.15	0.002±(0.005)	0.07	21.74	4.14
Tipulidae larvae	1.70±(4.36)	0.20	0.002±(0.004)	0.06	17.39	3.33
Simuliidae larvae	7.78±(37.32)	0.90	0.004±(0.02)	0.15	4.35	1.02
TRICOPTERA (caddisflies)						
Hydropsychidae	0.22±(0.85)	0.03	0.001±(0.003)	0.03	8.70	1.65
Brachycentridae	0.65±(3.13)	0.08	0.002±(0.01)	0.09	4.35	0.85
HEMIPTERA (bugs)						
Corixidae	0.09±(0.29)	0.01	0.0001±(0.0004)	0.0	8.70	1.64
EPHEMEROPTERA (mayflies)						
Baetidae	0.09±(0.29)	0.01	0.0003±(0.001)	0.01	8.70	1.64
Heptagenidae	0.09±(0.42)	0.01	0.0±(0.0002)	0.0	4.35	0.82
OLIGOCHEATA (worms)						
Lumbricoides	0.83±(2.84)	0.1	0.04±(0.17)	1.59	8.70	1.96
COLEOPTERA (beetles)						
Elmidae	0.04±(0.21)	0.01	0.005±(0.02)	0.19	4.35	0.86
OTHER:						
Terrestrial	21.13±(51.57)	2.45	0.13±(0.26)	5.07	43.48	9.61
Organic Detritus	1.91±(1.38)	0.22	0.39±(1.47)	15.46	69.57	16.07
Inorganic Detritus	0.30±(0.63)	0.04	0.33±(1.47)	13.01	21.74	6.56
Unidentifiable bodies	0.13±(0.63)	0.02	0.005±(0.03)	0.21	4.35	0.86

Table F17. The annual food preferences of 5+ rainbow trout from Lake Roosevelt in May, 1989.

PREY ITEM	RAINBOW TROUT (N=12)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCURRENCE (%)	IRI (%)
XTEICHTHYES (fish)						
Fish eggs	001 58±(2442.65)	98.02	1 93±(4.41)	35.74	41.67	28.11
AMPHIPODA (scuds)						
Gammerus	0 08±(0.29)	0.01	0 0±(0.0002)	0.0	8 33	1 34
3ASOMMATOPHORA (snarl)						
Lymnadae	0 08±(0.29)	0.01	0 003±(0.01)	0.06	8.33	1 34
Planorbidae	0 17±(0.58)	0.02	0 0004±(0.001)	0 01	8.33	1.34
MOLLUSKA (clam)						
Sphaeriidae	0 17±(0.39)	0.02	0 001±(0.003)	0.03	16.67	2.68
DIPTERA (midges)						
Chironomidae pupae	2.17±(6.62)	0.21	0.0001±(0.0005)	0.0	16.67	2.7
Chironomidae larvae	1.0±(1.65)	0.1	0.0005±(0.001)	0 01	33.33	5.36
Tipulidae pupae	0 25±(0.62)	0.02	0.0002±(0.0006)	0.0	16.67	2.67
Tipulidae larvae	0 83±(1.34)	0.08	0.001±(0.002)	0 02	33.33	5.36
TRICOPTERA (caddisflies)						
Limnephilidae	0 17±(0.58)	0.02	0.03±(0.09)	0.49	8.33	1.42
Hydropsychidae	0.17±(0.39)	0.02	0.0006±(0.002)	0.01	16 67	2.68
Heliopsychidae	0.17±(0.58)	0.02	0 0006±(0.002)	0 01	8.33	1.34
EPHEMEROPTERA (mayflies)						
Baetidae	0.25±(0 62)	0.02	0 0005±(0.002)	0 01	16.67	2.68
HYDRACHNELLLAE (spider)						
Hydracarina	0 08±(0.29)	0.01	0.0±(0.0004)	0.0	8.33	1 33
OTHER:						
Terrestrial	11.83±(24.19)	1.16	0 03±(0.07)	0.63	50.0	8.30
Organic Detritus	1 92±(1.31)	0.19	2.78±(3.74)	51.40	75.0	20.29
Inorganic Detritus	0 50±(0.67)	0.05	0.1f(0.24)	1.82	41.67	6.98
Unidentifiable bodies	0 42±(0.90)	0.04	0 03±(0.08)	0.49	25.0	4.09

Table F18. The annual food preferences of 2+ rainbow trout from Lake Roosevelt in August, 1989.

PREY ITEM	RAINBOW TROUT (N=19)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) %		OCCURRENCE %	IRI (%)
OSTEICHTHYES (fish)						
Catostomidae	0 05±(0.23)	0.01	0.01±(0.02)	0.49	5.56	3.24
Unidentified fish	0.16±(0.37)	0.04	0 01f(0.01)	6 86	16.67	5 44
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	321.79±(1132.13)	88.33	0.01±(0.04)	36.47	38.89	37.77
<i>Leptodora kindtii</i>	21 26±(85.88)	5 84	0.002±(0.01)	7.36	16.67	6 89
BASOMMATOPHORA (snail)						
Planorbidae	0.05±(0.23)	0.01	0.001±(0.0)	0 01	5.56	1.29
DIPTERA (midges)						
Chironomidae pupae	14.63±(40.59)	4.02	0.001±(0.01)	6.23	38.89	11.34
Chironomidae larvae	0.26±(1.15)	0.07	0.0006±(0.0004)	0 20	5 56	1.35
Tipulidae pupae	0 05±(0.23)	0 01	0.0006±(0.0004)	0 19	5.56	1.33
TRICOPTERA (caddisflies)						
Hydropsychidae	1.42±(6.19)	0.39	0.0006±(0.007)	3.08	5.56	2.08
Brachycentridae	0.05±(0.23)	0.01	0.0±(0 0003)	0.12	5.56	1.31
Rhyacophilidae	0 05±(0.23)	0.01	0.0001±(0.0004)	0 19	5.56	1.33
PLECOPTERA (stoneflies)						
Perlodidae	1 11±(4.82)	0.30	0 0±(0.0004)	0.01	5.56	1.50
HEMIPTERA (bugs)						
Corixidae	0 21±(0.54)	0.06	0.0±(0.001)	0.62	16.67	3 86
EPHEMEROPTERA (mayflies)						
Baetidae	0 58±(1.80)	0.16	0.0±(0 001)	0.01	11.11	2.60
ODONATA (dragonflies)						
Anisoptera	0 05±(0.23)	0.01	0.007±(0.0)	0 04	5.56	1.30
OTHER:						
Terrestrial	2.26±(4.12)	0.62	0.005±(0.03)	25.53	27.78	12.44
Organic Detritus	0.16±(0.50)	0.04	0.001±(0.003)	1.64	11.11	2.95
Unidentifiable bodies	0 16±(0 69)	0.04	0 002±(0.007)	2.96	5.56	1.98

Table F19. The annual food preferences of 0+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	RAINBOW TROUT (N=11)					
	NUMBER ($\bar{X} \pm \text{S.D.}$) (%)		WEIGHT (mg) ($\bar{X} \pm \text{S.D.}$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Unidentified fish	0.09±(0.30)	0.02	0.01±(0.03)	12.43	9.09	4.02
Fish eggs	0.36±(1.21)	0.10	0.001±(0.003)	1.18	9.09	1.93
AMPHIPODA (scuds)						
Gammarus	0.09±(0.30)	0.02	0.0±(0.0004)	0.01	9.09	1.70
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	341.91±(554.54)	90.74	0.02±(0.04)	29.96	63.64	34.37
<i>Leptodora kindtii</i>	3.18±(10.55)	0.84	0.0002±(0.0005)	0.20	9.09	1.89
BASOMMATOPHORA (snail)						
Lymnaidae	0.18±(0.60)	0.05	0.0001±(0.0004)	0.14	9.09	1.73
DIPTERA (midges)						
Chironomidae pupae	9.73±(15.07)	2.58	0.01±(0.03)	10.65	90.91	19.42
Chironomidae larvae	0.73±(1.79)	0.19	0.0±(0.0006)	0.01	27.27	5.12
Simuliidae larvae	0.27±(0.90)	0.07	0.0±(0.0008)	0.01	9.09	1.71
OTHER:						
Terrestrial	19.55±(41.16)	5.19	0.004±(0.007)	5.28	63.64	13.82
Organic Detritus	0.09±(0.30)	0.02	0.03±(0.09)	37.28	9.09	8.65
Inorganic Detritus	0.09±(0.30)	0.02	0.002±(0.006)	2.17	9.09	2.10
Unidentifiable bodies	0.55±(1.51)	0.14	0.0005±(0.002)	0.67	18.18	3.54

Table F20. The annual food preferences of 1+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	RAINBOW TROUT (N=6)					
	NUMBER ($\bar{X} \pm \text{S.D.}$) (%)		WEIGHT (mg) ($\bar{X} \pm \text{S.D.}$) %		OCCURRENCE %	IRI (%)
OSTEICHTHYES (fish) Percidae	0.33±(0.82)	0.03	0.38±(0.92)	82.27	16.67	21.2
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	989.67±(1925.99)	96.55	0.07±(0.09)	15.11	66.67	38.20
<i>Leptodora kindtii</i>	9.50±(21.83)	0.93	0.001±(0.003)	0.20	33.33	7.38
EUCOPEPODA (copepods)						
Cyclops spp.	4.33±(10.61)	0.42	0.0±(0.0002)	0.0	16.67	3.66
Epischura spp.	0.83±(2.04)	0.08	0.0002±(0.0006)	0.05	16.67	3.60
DIPTERA (midges)						
Chironomidae pupae	17.67±(38.14)	1.72	0.001±(0.002)	0.28	33.33	7.57
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.17±(0.41)	0.02	0.0002±(0.0005)	0.04	16.67	3.62
OTHER:						
Terrestrial	2.0±(4.90)	0.2	0.0002±(0.0004)	0.04	16.67	3.62
Organic Detritus	0.17±(0.41)	0.02	0.001±(0.002)	0.20	16.67	3.61
Unidentifiable bodies	0.33±(0.52)	0.03	0.01±(0.01)	1.81	33.33	7.53

Table F21. The annual food preferences of 2+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
OSTEICHTHYES (fish)						
Cottidae	0.04±(0.20)	0.01	0.01±(0.05)	7.11	4.17	2.51
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	460.04±(689.22)	69.02	0.04±(0.07)	23.11	87.5	39.9
<i>Leptodora kindtii</i>	79.29±(278.45)	11.90	0.0±(0.007)	0.0	8.33	4.49
EUCOPEPODA (copepods)						
Cyclops spp.	0.33±(1.63)	0.05	0.0±(0.0)	0.01	4.17	0.94
BASOMMATOPHORA (snail)						
Lymnaidae	0.13±(0.61)	0.02	0.0±(0.0003)	0.0	4.17	0.93
DIPTERA (midges)						
Chironomidae pupae	123.71±(443.47)	18.56	0.06±(0.25)	40.61	20.83	17.77
Chironomidae larvae	1.96±(6.67)	0.29	0.0±(0.0004)	0.05	41.67	9.33
TRICOPTERA (caddisflies)						
Leptoceridae	0.21±(1.02)	0.03	0.0001±(0.0005)	0.07	4.17	0.95
Lepidostomatidae	0.0±(0.0)	0.0	0.0±(0.0)	0.0	4.17	0.93
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.0±(0.0)	0.0	0.0001±(0.0005)	0.07	4.17	0.94
EPHEMEROPTERA (mayflies)						
Ephemeroellidae	0.0±(0.0)	0.0	0.0±(0.0001)	0.0	4.17	0.93
HYDRACHNELLAE (spider)						
Hydracarina	0.04±(0.20)	0.01	0.0±(0.0)	0.01	4.17	0.93
OTHER:						
Terrestrial	1.88±(8.15)	0.26	0.03±(0.15)	20.6	16.67	a.34
Organic Detritus	0.42±(0.65)	0.06	0.008±(0.03)	4.79	33.33	a.48
Inorganic Detritus	0.13±(0.45)	0.02	0.006±(0.03)	3.57	8.33	2.65

Table F22. The annual food preferences of 3+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	RAINBOW TROUT (N=11)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Percidae	0.27±(0.90)	0.09	0.25±(0.84)	55.85	9.09	9.41
Unidentified fish	0.18±(0.40)	0.06	0.02±(0.08)	5.43	18.18	3.43
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	187.64±(297.27)	61.21	0.03±(0.06)	7.13	54.55	17.78
<i>Leptodora kindtii</i>	108.36±(240.16)	35.35	0.02±(0.04)	3.76	27.27	9.61
EUCOPEPODA (copepods)						
Epischura spp.	0.45±(1.51)	0.15	0.45±(1.51)	100.11	9.09	15.82
DIPTERA (midges)						
Chironomidae pupae	2.45±(5.05)	0.80	0.0002±(0.002)	0.05	54.55	8.02
Chironomidae larvae	2.64±(5.85)	0.86	0.0004±(0.0006)	0.08	27.27	4.08
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.18±(0.40)	0.06	0.003±(0.009)	0.66	18.18	2.74
HEMIPTERA (bugs)						
Corixidae	0.09±(0.30)	0.03	0.005±(0.01)	1.03	9.09	1.47
Notonectidae	0.09±(0.30)	0.03	0.0006±(0.002)	0.14	9.09	1.34
COLEOPTERA (beetles)						
Elmidae	0.45±(1.51)	0.15	0.01±(0.03)	1.95	9.09	1.62
HYDRACHNELLAE (spider)						
Hydracarina	0.45±(1.21)	0.15	0.0±(0.0003)	0.0	18.18	2.65
OTHER:						
Terrestrial	2.27±(5.0)	0.74	0.02±(0.04)	3.90	45.45	7.25
Organic Detritus	0.73±(1.01)	0.24	0.06±(0.17)	14.17	54.55	9.98
Inorganic Detritus	0.18±(0.60)	0.06	0.01±(0.05)	3.06	9.09	1.77
Unidentifiable bodies	0.09±(0.30)	0.03	0.01±(0.04)	2.79	18.18	3.04

Table F23. The annual food preferences of 4+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	RAINBOW TROUT (N=8)					
	NUMBER ($\bar{X} \pm \text{S.D.}$) (%)		WEIGHT (mg) ($\bar{X} \pm \text{S.D.}$) (%)		OCCURRENCE (%)	IRI (%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	5.63±(15.91)	2.93	0.0003±(0.0007)	0.28	12.50	3.50
<i>Leptodora kindtii</i>	183.5±(482.54)	95.51	0.05±(0.13)	49.99	25.0	37.83
DIPTERA (midges)						
Chironomidae pupae	0.88±(1.13)	0.46	0.0008±(0.0005)	0.08	50.0	11.24
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.75±(1.16)	0.39	0.008±(0.02)	8.21	37.50	10.26
EPHEMEROPTERA (mayflies)						
EphemereUidae	0.13±(0.35)	0.07	0.0±(0.0004)	0.01	12.5	2.80
OTHER:						
Terrestrial	0.25±(0.46)	0.13	0.004±(0.008)	4.02	25.0	6.49
Organic Detritus	0.63±(0.74)	0.33	0.03±(0.04)	27.34	50.0	17.28
Inorganic Detritus	0.13±(0.35)	0.07	0.01±(0.03)	9.89	12.5	5.0
Unidentifiable bodies	0.25±(0.46)	0.13	0.0002±(0.0007)	0.16	25.0	5.63

Table F24. The annual food preferences of 5+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	RAINBOW TROUT (N=2)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) %		OCCURRENCE (%)	IRI %
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	19.5±(27.58)	1.79	0.0005±(0.0007)	0.17	50.0	10.39
<i>Leptodora kindtii</i>	950.0±(1343.5)	87.08	0.28±(0.40)	94.79	50.0	46.37
EUCOPEPODA (copepods)						
Epischura spp.	116.0±(164.05)	10.63	0.001±(0.002)	0.45	50.0	12.22
DIPTERA (midges)						
Chironomidae pupae	4.50±(6.36)	0.41	0.0±(0.0003)	0.02	50.0	10.09
OTHER:						
Organic Detritus	1.0±(0.0)	0.09	0.01±(0.02)	4.56	100.0	20.93

Table F25. The annual food preferences of 6+ rainbow trout from Lake Roosevelt in October, 1989.

PREY ITEM	RAINBOW TROUT (N=2)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI %
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	103.±(0.0)	29.1	0.0041±(0.0)	3.54	100.0	26.53
<i>Leptodora kindtii</i>	250.0±(0.0)	70.62	0.08±(0.0)	69.23	100.0	47.97
OTHER:						
Unidentifiable bodies	1.0±(0.0)	0.26	0.03±(0.0)	27.23	100.0	25.5

Table F26. The annual food preferences of 2+ kokanee from Lake Roosevelt in August, 1988.

PREY ITEM	KOKANEE (N=2)					
	NUMBER		DRY WEIGHT (g)		OCCURRENCE	IRI
	X ± (S.D.)	(%)	X ± (S.D.)	(%)	(%)	(%)
CLADOCERA (waterfleas)						
<i>Daphnia schødleri</i>	3926 ± (5550)	99.43	0.19 ± (0.27)	98.86	100.00	54.24
<i>Daphnia retrocurva</i>	4.00 ± (5.66)	0.10	0.00 ± (0.00)	0.05	50.00	9.12
<i>Leptodora kindtii</i>	7.00 ± (24.04)	0.43	0.00 ± (0.00)	0.54	50.00	9.27
EUCOPEPODA (copepods)						
Diaptomus spp.	0.50 ± (0.71)	0.01	0.00 ± (0.00)	0.05	50.00	9.10
OTHER						
Detritus Organic	1.00 ± (1.41)	0.01	0.00 ± (0.00)	0.46	50.00	9.18
Unidentifiable bodies	0.50 ± (0.71)	0.01	0.00 ± (0.00)	0.03	50.00	9.09

Table F27. The annual food preferences of 3+ kokanee from Lake Roosevelt in August, 1988.

KOKANEE (N=4)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE (%)	IRI (%)
	X ± (S. D.)	(%)	X ± (S. D.)	(%)		
CLADOCERA (waterfleas)						
<i>Daphnia schødleri</i>	20.75 ± (26.37)	66.94	56.58	56.58	50.00	49.57
<i>Daphnia retrocurva</i>	0.75 ± (1.50)	2.42	0.00 ± (0.00)	1.32	25.00	8.21
<i>L. eptodora kindtii</i>	8.50 ± (16.34)	27.42	0.00 ± (0.00)	35.53	50.00	32.27
HEMPTERA (bugs)						
Corixidae	2.00 ± (2.83)	3.23	0.00 ± (0.00)	6.58	25.00	9.95

Table F28. The annual food preferences of 2+ kokanee from Lake Roosevelt in October, 1988.

KOKANEE (N=1)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE (%)	I R I (%)
	X ± (S. D.)	%	X ± (S. D.)	%		
CLADOCERA (waterfleas) <i>Daphnia schødleri</i>	12600 ± (0.00)	99.99	0.59 ± (0.00)	99.93	100.00	74.98
OTHER: Organic Detritus	1.00 ± (0.00)	0.01	0.00 ± (0.00)	0.07	100.00	25.02

Table F29. The annual food preferences of 3+ kokanee from Lake Roosevelt in October, 1988.

KOKANEE (N=16)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE (%)	IRI (%)
	X ± (S.D.)	(%)	X ± (S.D.)	(%)		
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	1548 ± (3144)	95.65	0.08 ± (0.15)	94.41	68.75	76.69
<i>Leptodora kindtii</i>	2.38 ± (9.50)	0.15	0.00 ± (0.00)	0.06	6.25	1.91
<i>Ehippia</i>	67.50 ± (270)	4.17	0.00 ± (0.02)	4.45	6.25	4.41
DIPTERA (midges)						
Chironomid pupa	0.06 ± (0.25)	0.00	0.00 ± (0.00)	0.01	6.25	1.85
EUCOPEPOD (copepods)						
Epischura spp.	0.06 ± (0.25)	0.00	0.00 ± (0.00)	0.04	6.25	1.86
COLEOPTERA (beetle)						
Elmidae	0.06 ± (0.25)	0.00	0.00 ± (0.00)	0.17	6.25	1.90
OTHER						
Organic detritus	0.31 ± (0.48)	0.02	0.00 ± (0.00)	0.84	31.25	9.52
Unidentifiable bodies	0.06 ± (0.25)	0.00	0.00 ± (0.00)	0.02	6.25	1.86

Table F30. The annual food preferences of 4+ kokanee from Lake Roosevelt in October, 1988.

KOKANEE (N=5)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE (%)	IRI (%)
	X ± (S.D.)	(%)	X ± (S.D.)	(%)		
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	2155 ± (4804)	94.28	0.07 ± (0.16)	75.11	80.00	69.27
<i>Leptodora kindtii</i>	130 ± (291)	5.69	0.01 ± (0.02)	10.89	20.00	10.17
OTHER:						
Organic Detritus	0.20 ± (0.45)	0.01	0.00 ± (0.00)	0.95	20.00	5.82
Inorganic Detritus	0.40 ± (0.55)	0.02	0.01 ± (0.03)	13.06	40.00	14.74

Table F31. The annual food preferences of 0+ kokanee from Lake Roosevelt in May, 1989.

PREY ITEM	KOKANEE (N=1)					
	NUMBER		DRY WEIGHT (g)		OCCURRENCE	IRI
	X ± (S. D.)	(%)	X ± (S. D.)	%	(%)	%
DIPTERA (midges)						
Chironomidae pupa	1.00 ± (0.00)	12.50	0.00 ± (0.00)	50.00	100.00	40.63
Chironomidae larva	7.00 ± (0.00)	67.50	0.00 ± (0.00)	50.00	100.00	59.37

Table F32. The annual food preferences of 2+ kokanee from Lake Roosevelt in May, 1989.

PREY ITEM	KOKANEE (N=2)					
	NUMBER		DRY WEIGHT (g)		OCCURRENCE	IRI
	X ± (S.D.)	%	X ± (S.D.)	(%)	%	%
DIPTERA (midges)						
Chironomidae pupa	43.50 ± (9.19)	82.08	0.01 ± (0.01)	90.59	100.00	54.53
Chironomidae larva	7.00 ± (990)	13.21	0.00 ± (0.00)	5.29	50.00	13.71
HEMIPTERA (bugs)						
Corixidae	1.00 ± (1.41)	1.89	0.00 ± (0.00)	3.53	50.00	11.08
OTHER:						
Terrestrial	1.5 ± (0.71)	2.83	0.00 ± (0.00)	0.59	100.00	20.68

Table F33. The annual food preferences of 3+ kokanee from Lake Roosevelt in May, 1989.

KOKANEE (N=8)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE (%)	IRI (%)
	X ± (S. D.)	(%)	X ± (S. D.)	(%)		
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	55 ± (131)	37.30	0.00 ± (0.01)	28.79	25.00	22.08
<i>Leptodora kindtii</i>	2.13 ± (5.25)	1.43	0.00 ± (0.00)	0.26	25.00	6.47
EUCOPEPODA (copepods)						
Bryocampus	1.38 ± (3.89)	0.93	0.00 ± (0.00)	0.09	12.50	3.28
ISOPODA (sow bugs)						
Asellidae	0.25 ± (0.71)	0.17	0.00 ± (0.00)	1.03	12.50	3.32
DIPTERA (midges)						
Chironomidae pupa	88 ± (151)	59.07	0.01 ± (0.01)	43.62	62.50	40.05
HEMIPTERA (bugs)						
Corixidae	0.63 ± (1.41)	0.42	0.00 ± (0.00)	0.09	25.00	6.18
OTHER:						
Terrestrial	0.75 ± (1.49)	0.51	0.00 ± (0.00)	0.86	25.00	6.39
Unidentifiable bodies	0.25 ± (0.46)	0.17	0.00 ± (0.01)	25.26	25.00	12.23

Table F34. The annual food preferences of 4+ kokanee from Lake Roosevelt in May, 1989.

PREY ITEM	KOKANEE (N=2)					
	NUMBER X ± (S.D.) (%)		DRY WEIGHT (g) X ± (S.D.) (%)		OCCURRENCE (%)	IRI (%)
CLADOCERA(water fleas) <i>D. schødleri</i>	13.50 ± (19.09)	16.36	0.00 ± (0.00)	3.40	50.00	17.46
DIPTERA(nidges) Chironomidae pupa	68.00 ± (96.17)	82.42	0.00 ± (0.01)	15.09	50.00	36.88
HEMIPTERA(bugs) Corixidae	0.50 ± (0.71)	0.61	0.00 ± (0.00)	0.19	50.00	12.70
OTHER: Organic Detritus	0.50 ± (0.71)	0.61	0.02 ± (0.03)	81.24	50.00	32.96

Table F35. The annual food preferences of 5+ kokanee from Lake Roosevelt in May, 1989.

KOKANEE (N=1)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE	IRI
	X ± (S.D.)	%	X ± (S.D.)	(%)	(%)	(%)
OSTEICHTHYES (fish)						
Walleye eqqs	2119 ± (0.00)	100.00	0.99 ± (0.00)	100.00	100.00	100.00

Table F36. The annual food preferences of 1+ kokanee from Lake Roosevelt in August, 1989.

PREY ITEM	KOKANEE (N=4)					
	NUMBER X ± (S.D.) (%)		DRY WEIGHT (g) X ± (S.D.) (%)		OCCURRENCE (%)	IRI (%)
CLADOCERA (water fleas)						
<i>Diptera schødleri</i>	770 ± (1076)	99.55	0.06 ± (0.05)	99.04	100.00	79.84
<i>Leptodora kindtii</i>	2.50 ± (3.32)	0.32	0.00 ± (0.00)	0.04	50.00	13.43
DIPTERA (midges)						
Chironomidae pupa	1.00 ± (2.00)	0.13	0.00 ± (0.00)	0.12	25.00	6.73

Table F37. The annual food preferences of 0+ kokanee from Lake Roosevelt in October, 1989.

KOKANEE (N=1)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE	IRI
	X ± (S.D.)	(%)	X ± (S.D.)	(%)	%	(%)
CLADOCERA (water fleas) <i>Daphnia schødleri</i>	434 ± (000)	100 00	0 02 ± (0.00)	100.00	100.00	100.00

Table F38. The annual food preferences of 1+ kokanee from Lake Roosevelt in October, 1989.

KOKANEE (N=2)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE	
	X ± (S.D.)	(%)	X ± (S.D.)	(%)	0 (%)	(%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	6290 ± (5908)	96.12	0.46 ± (0.44)	92.05	100.00	72.24
<i>Leptodora kindtii</i>	254 ± (306)	3.88	0.04 ± (0.05)	7.15	100.00	27.76

Table F39. The annual food preferences of 2+ kokanee from Lake Roosevelt in October, 1989.

PREY ITEM	KOKANEE (N=9)					
	NUMBER		DRY WEIGHT (g)		OCCURRENCE	IRI
	X ± (S.D.)	(%)	X ± (S.D.)	(%)	%	(%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	1704 ± (1904)	99.01	0.07 ± (0.07)	95.51	69.23	87.91
<i>Leptodora kindtii</i>	16.44 ± (49.33)	0.96	0.00 ± (0.01)	4.45	7.69	4.37
EUCOPEPODA (copepods)						
Diaptomus	0.11 ± (0.33)	0.01	0.00 ± (0.00)	0.02	7.69	2.57
DIPTERA (midges)						
Chironomidae larva	0.33 ± (1.00)	0.02	0.00 ± (0.00)	0.02	7.69	2.58
HEMIPTERA (bugs)						
Corixidae	0.11 ± (0.33)	0.01	0.00 ± (0.00)	0.02	7.69	2.57

Table F40. The annual food preferences of 3+ kokanee from Lake Roosevelt in October, 1989.

KOKANEE (N=3)						
PREY ITEM	NUMBER		DRY WEIGHT (g)		OCCURRENCE (%)	IRI (%)
	X ± (S. D.)	(%)	X ± (S. D.)	(%)		
CLADOCERA (water fleas) <i>Daphnia schødleri</i>	2395 ± (3778)	99.97	0.17 ± (0.15)	97.52	66.67	79.25
EUCOPEPODA (copepods) Diaptomus	0.33 ± (0.58)	0.01	0.00 ± (0.00)	0.02	33.33	10.00
OTHER: Organic Detritus	0.33 ± (0.58)	0.01	0.00 ± (0.01)	2.47	33.33	10.75

Table F41. The annual food preferences of 0+ walleye from Lake Roosevelt in August, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	%	(X±S.D.)	(%)		
WALLEYE (N=10)						
OSTEICHTHYES (fish)						
Cyprinidae	0.7±(1.49)	0.53	0.06±(0.11)	64.66	20.0	25.0
Percidae	0.2±(0.42)	0.15	0.003±(0.005)	3.93	20.0	5.72
Unidentified fish	0.1±(0.32)	0.08	0.004±(0.005)	5.69	10.0	3.8
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	107.2±(333.75)	80.60	0.003±(0.004)	4.65	30.0	27.4
<i>Daphnia thorata</i>	6.2±(19.61)	4.66	0.0±(0.0)	0.05	10.0	3.5
<i>Daphnia galeata mendota</i>	6±(18.97)	4.51	0.0±(0.0001)	0.05	10.0	3.5
<i>Leptodora kindtii</i>	0.3±(0.95)	0.23	0.0±(0.0004)	0.05	10.0	2.5
<i>Polyphemius pediculus</i>	1.2±(2.53)	0.90	0.0002±(0.0003)	0.27	20.0	5.04
EUCOPEPODA (copepods)						
<i>Epischura</i> spp.	3±(9.49)	2.26	0.0±(0.0005)	0.05	10.0	2.9
DIPTERA (midges)						
Chironomidae larvae	7.5±(21.06)	5.64	0.0004±(0.0007)	0.59	20.0	6.24
OTHER:						
Unidentifiable bodies	0.6±(0.52)	0.45	0.0009±(0.002)	0.05	60.0	14.4

Table F42. The annual food preferences of 1+ walleye from Lake Roosevelt in August, 1988.

PREY ITEM	WALLEYE (N=15)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	1 93±(2.58)	25.66	0 195±(0.23)	54.52	66.67	32.84
Unidentified fish	0 53±(1.36)	7.08	0.142±(0.17)	39.68	20.00	14.93
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	0.60±(1.84)	7.96	0 0003±(0.0006)	0.08	13.33	3.40
<i>Alona affinis</i>	0 13±(0.35)	1.77	0.000±(0.0002)	0.01	13.33	3.40
EUCOPEPODA (copepods)						
Diaptomus spp.	1 20±(3.19)	15.93	0 0003±(0.0006)	0.08	13.33	6.60
OSTRACODA (seed shrimp)						
Cypridae	0.93±(3.35)	12.39	0 000±(0.0003)	0.01	13.33	5.60
DIPTERA (midges)						
Chironomidae pupae	0.40±(0.74)	5.31	0.0008±(0.002)	0.23	26.65	7.20
Chironomidae larvae	0 67±(1.59)	8.85	0 0007±(0.0008)	0.18	26.67	7.98
OTHER:						
Terrestrial	0.73±(1.71)	9.73	0.002±(0.003)	0.67	20.00	7.00
Organic Detritus	0.13±(0.35)	1.77	0.01±(0.0148)	2.92	13.33	4.00
Unidentifiable bodies	0 27±(0.46)	3.54	0.0058±(0.0136)	1.63	26.67	7.12

Table F43. The annual food preferences of 2+ walleye from Lake Roosevelt in August, 1988.

PREY ITEM	WALLEYE (N=17)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	0 76±(1.71)	19.12	0 135±(0.339)	21.62	35 29	20.7
Cyprinidae	0 06±(0.24)	1.47	0.0441±(0.125)	7 0 7	5 88	3.92
Percidae	0 24±(0.75)	5.88	0.342±(0.863)	54 80	11 76	20.00
Salmonidae	0 12±(0.33)	2.94	0.007±(0.02)	1 11	11 76	4 30
Unidentified fish	0 65±(1.00)	16.18	0 042±(0.095)	6 73	41 18	17.40
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	1 06±(4.37)	26.47	0 0001±(0.0003)	0 0 2	5 88	2 80
<i>Alona affinis</i>	0 12±(0.49)	2 9 4	0 000±(0.0012)	0 00	5 88	2 40
EUCOPEPODA (copepods)						
Cyclops spp.	0 12±(0.49)	2.94	0 000±(0.0002)	0 00	5 88	2.40
DIPTERA (midges)						
Chironomidae larvae	0 29±(0.99)	7.35	0 0018±(0.0059)	0 29	11.76	5 27
HEMIPTERA (bugs)						
Corixidae	0 06±(0.24)	1 4 7	0 0002±(0.0005)	0 0 3	5.88	2.00
OTHER:						
Terrestrial	0.18±(0.53)	4.41	0.0005±(0.0009)	0 08	11.76	4.42
Organic Detritus	0.29±(0.59)	7.35	0 0043±(0.0112)	0.69	23.53	4 70
Unidentifiable bodies	0 06±(0.24)	1.47	0 047±(0.13)	7 56	5 88	4 10

Table F44. The annual food preferences of 3+ walleye from Lake Roosevelt in August, 1988.

PREY ITEM	WALLEYE (N=71)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Catostomidae	0.01±(0.25)	0.26	0.122±(0.345)	3.16	1.41	1.33
Centrarchidae	0.03±(0.34)	0.52	0.12±(0.31)	2.84	2.82	1.70
Cottidae	1.99±(0.25)	36.53	0.636±(1.303)	16.49	35.21	24.30
Cyprinidae	0.24±(0.34)	4.40	1.049±(1.439)	27.20	11.27	11.8
Percidae	0.42±(0.25)	7.77	1.154±(1.851)	29.91	15.49	14.64
Salmonidae	0.03±(0.000)	0.52	0.394±(1.116)	10.22	1.41	3.35
Unidentified fish	0.45±(1.63)	a.29	0.31 af(0.472)	a.23	16.90	9.20
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	0.14±(0.000)	2.59	0.0002±(0.0005)	0.000	1.41	1.10
EUCOPEPODA (copepods)						
Cyclops	0.01±(0.25)	0.26	0.0003±(0.0009)	0.01	1.41	0.50
DIPTERA (midges)						
Chironomidae pupae	0.52±(0.77)	9.59	0.0038±(0.011)	0.000	16.90	7.30
Chironomidae larvae	0.76±(10.50)	13.99	0.0003±(0.0006)	0.01	5.63	5.40
TRICOPTERA (caddis flies)						
Hydropsychidae	0.03±(0.50)	0.52	0.000±(0.001)	0.000	1.41	0.53
HEMIPTERA (bugs)						
Corixidae	0.01±(0.000)	0.26	0.0001±(0.0003)	0.000	1.41	0.50
OTHER:						
Terrestrial	0.15±(0.000)	2.85	0.0009±(0.002)	0.02	9.86	3.50
Organic Detritus	0.18±(0.45)	3.37	0.015±(0.016)	0.38	15.49	5.20
inorganic Detritus	0.07±(0.50)	1.30	0.047±(0.016)	1.22	0.38	1.24
Unidentifiable bodies	0.38±(1.20)	6.99	0.0113±(0.023)	0.29	22.54	8.50

Table F45. The annual food preferences of 4+ walleye from Lake Roosevelt in August, 1988.

'REY ITEM	WALLEYE (N=57)					
	NUMBER ($\bar{X}\pm$ S.D.) (%)		WEIGHT (mg) ($\bar{X}\pm$ S.D.) (%)		OCCURRENCE (%)	IRI %
OSTEICHTHYES (fish)						
Catostomidae	0 01f(0.25)	0.26	0.122±(0.345)	3.16	1.41	1.33
Centrarchidae	0 03±(0.34)	0.52	0.12±(0.31)	2.84	2.82	1.70
Cottidae	1 99±(0.25)	36.53	0 636±(1 303)	16.49	35.21	24.30
Cyprinidae	0 24±(0.34)	4.40	1 049±(1.439)	27.20	112.7	11.8
Percidae	0 42±(0.25)	7.77	1.154±(1.851)	29.91	15.49	14.64
Salmonidae	0.03±(0.000)	0.52	0.394±(1.116)	10.22	1.41	3.35
Unidentified fish	0 45±(1.63)	2 29	0 318±(0.472)	8 2 3	16.90	9.20
SOPODA (sow bugs)						
Asellus	0 05±(0.40)	0.73	0.0004±(0.001)	0 01	1.75	0 66
CLADOCERA (water fleas)						
<i>Daphnia schædleri</i>	0.02±(0.13)	0 24	0.000±(0.000)	0.000	1.75	0.53
<i>Leptodora kindtii</i>	0 40±(3.05)	5.60	0 0003±(0.001)	0.01	1.75	1 90
DIPTERA (midges)						
Chironomidae pupae	0 49±(1.36)	6.81	0 004±(0.007)	0.11	21.05	7.40
Chironomidae larvae	1 96±(5.91)	27.25	0.0005±(0 003)	0.02	17.54	11.80
OTHER:						
Cestoda	0 04±(0.19)	0.49	0.008±(0.022)	0.24	3.51	1.10
Terrestrial	0.11±(0.56)	1.46	0.0005±(0.001)	0.02	5 2 6	1.78
Organic Detritus	0.40±(0.84)	5.60	0 015±0.029)	0.46	24.56	8.10
Inorganic Detritus	0.05±(0.40)	0 73	0.0012±0 0036)	0.04	1.75	0.67
Unidentifiable bodies	0 72±(1.24)	9 98	0 19±0 465	5 83	3333	1300

Table F46. The annual food preferences of 5+ walleye from Lake Roosevelt in August, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	%	(%)	%
OSTEICHTHYES (fish)						
Cyprinidae	0.33±(0.82)	6.90	0.146±(0.253)	16.59	16.67	1050
Percidae	0.17±(0.41)	3.45	0.248±(0.439)	26.06	16.67	1300
Unidentified fish	1.00±(2.45)	20.69	0.446±(0.763)	50.50	16.67	23.00
DIPTERA (midges)						
Chironomidae pupae	0.33±(0.82)	6.90	0.0002±(0.0003)	0.02	16.67	6.10
Chironomidae larvae	2.00±(4.90)	41.36	0.000±(0.0002)	0.000	16.67	15.20
OTHER:						
Organic Detritus	0.17±(0.41)	3.45	0.004±(0.007)	0.46	16.67	5.40
Inorganic Detritus	0.17±(0.41)	3.45	0.026±(0.046)	2.99	16.67	6.00
Unidentifiable bodies	0.67±(0.52)	13.79	0.012±(0.018)	1.35	66.67	21.30

Table F47. The annual food preferences of 6+ walleye from Lake Roosevelt in August, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
WALLEYE (N=1)						
OSTEICHTHYES (fish)						
Cyprinidae	1.00±(0.000)	25.00	1.168±(0.000)	97.46	100.00	44.50
OTHER:						
Organic Detritus	1.00±(1.000)	25.00	0.0014±(0.000)	0.12	100.00	25.00
Unidentifiable bodies	2.00±(0.000)	50.00	0.029±(0.000)	2.42	50.00	30.50

Table F48. The annual food preferences of 0+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
WALLEYE (N=13)						
OSTEICHTHYES (fish)						
Cottidae	0.15±(0.55)	0.15	0.006±(0.022)	68.86	7.69	1430
Cyprinidae	0.08±(0.28)	0.06	0.000±(0.0003)	0.09	7.69	1.50
AMPHIPODA (scuds)						
Gammarus	0.08±(0.28)	0.06	0.000±(0.0005)	0.09	7.69	1.50
CLADOCERA (water fleas)						
<i>Daphnia schørdleri</i>	25.54±(54.31)	25.23	0.000±(0.002)	0.09	69.23	1770
<i>Daphnia thorata</i>	0.23±(0.60)	0.23	0.000±(0.0013)	0.09	15.38	3.00
<i>Daphnia galeata mendot.</i>	14.54±(52.42)	14.36	0.0002±(0.0009)	2.69	7.69	4.60
<i>Leptodora kindtii</i>	0.38±(1.39)	0.38	0.000±(0.0006)	0.09	7.69	1.53
<i>Sida crystallina</i>	0.08±(0.28)	0.06	0.000±(0.000)	0.09	7.69	1.50
<i>Bosminidae spp.</i>	60.15±(216.89)	59.42	0.000±(0.000)	0.09	7.69	1260
PLUCOPEPODA (copepods)						
Epischura spp.	11.54±(38.37)	11.40	0.0004±(0.0015)	4.16	23.08	7.20
Bryocampus spp.	0.08±(0.26)	0.06	0.0003±(0.001)	3.21	7.69	2.10
DIPTERA (midges)						
Chironomidae pupae	0.85±(1.46)	0.84	0.000±(0.0009)	0.09	36.46	7.40
Chironomidae larvae	6.77±(15.53)	6.69	0.0009±(0.0042)	10.32	46.15	11.60
Tipulidae larvae	0.15±(0.55)	0.15	0.000±(0.0003)	0.09	7.69	
HEMIPTERA (bugs)						
Corixidae	0.08±(0.28)	0.06	0.000±(0.0001)	0.35	7.69	
OTHER:						
Organic Detritus	0.23±(0.44)	0.23	0.0009±(0.0037)	9.54	23.08	
Unidentifiable bodies	0.23±(0.44)	0.23	0.000±(0.0005)	0.09	23.08	4.40

Table F49. The annual food preferences of 1+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	WALLEYE (N=12)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) %		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	0.08±(0.29)	0.24	0.01±(0.0357)	0.47	6.33	2.30
Percidae	0.08±(0.29)	0.24	0.10±(0.346)	4.54	8.33	3.33
Unidentified fish	0.25±(0.45)	0.72	0.0422±(0.111)	1.92	8.33	2.80
CLADOCERA (water fleas)						
<i>Daphnia schodleri</i>	0.67±(2.31)	1.92	0.000±(0.000)	0.000	8.33	2.60
<i>Leptodora kindtii</i>	32.00±(83.63)	92.31	0.0033±(0.008)	0.15	16.67	27.75
<i>Eurycerus spp.</i>	0.17±(0.58)	0.46	0.000±(0.0003)	0.000	8.33	2.24
<i>Sida crystallina</i>	0.17±(0.58)	0.48	0.000±(0.0001)	0.000	50.00	12.8
EUCOPEPODA (copepods)						
Epischura spp.	0.17±(0.58)	0.48	0.000±(0.000)	0.000	175.00	446.0
DIP'ERA (midges)						
Chironomidae larvae	0.08±(0.29)	0.24	0.000±(0.0006)	0.000	0.000	0.10
OTHER:						
Organic Detritus	0.25±(0.62)	0.72	0.002±(0.005)	0.08	0.000	0.20
Inorganic Detritus	0.08±(0.29)	0.24	0.0001±(0.0005)	0.01	0.000	0.10
Unidentifiable bodies	0.67±(0.78)	1.92	0.062±(0.140)	2.84	0.000	1.20

Table F50. The annual food preferences of 2+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	WALLEYE (N=3)				OCCURRENCE (%)	IRI %
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)			
OSTEICHTHYES (fish)						
Unidentified fish	0.25±(0.50)	12.50	0.091±(0.18)	21.47	25.00	18.00
OTHER:						
Organic Detritus	1.75±(0.96)	87.50	0.334±(0.586)	78.53	100.00	82.00

Table F51. The annual food preferences of 3+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	(X±S.D.)	(%)	(X±S.D.)	(%)	(%)	(%)
WALLEYE (N=12)						
OSTEICHTHYEA (fish)						
Cottidae	0.17±(0.58)	5.00	0.0554±(0.192)	6.10	8.33	5.10
Percidae	0.42±(0.90)	12.50	0.326±(0.708)	35.93	25.00	19.20
Unidentified fish	1.33±(1.44)	40.00	0.4±(0.634)	44.04	75.00	41.50
DIPTERA (midges)						
Chironomidae larvae	0.25±(0.87)	7.50	0.000±(0.0001)	0.000	8.33	4.13
OTHER:						
Organic Detritus	0.83±(1.19)	25.00	0.042±(0.094)	4.65	41.67	18.60
Inorganic Detritus	0.08±(0.29)	2.50	0.025±(0.086)	2.72	8.33	3.54
Unidentifiable bodies	0.25±(0.62)	7.50	0.06±(0.202)	6.55	16.67	8.00

Table F52. The annual food preferences of 4+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	WALLEYE (N=71)					
	NUMBER ($\bar{X} \pm S.D.$)		WEIGHT (mg) ($\bar{X} \pm S.D.$)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	0.03±(0.18)	1.47	0.0018±(0.01)	0.16	3.13	1.36
Cyprinidae	0.06±(0.35)	2.94	0.017±(0.1)	1.70	3.13	2.24
Percidae	0.53±(0.84)	25.00	0.681±(1.064)	67.35	37.50	37.40
Unidentified fish	0.69±(1.26)	32.35	0.892±(0.238)	66.2	31.25	20.89
DIPTERA (midges)						
Chironomidae pupae	0.03±(0.18)	1.47	0.000±(0.000)	0.000	3.13	1.33
Chironomidae larvae	0.13±(0.55)	5.88	0.000±(0.0001)	0.000	6.25	3.50
OTHER:						
Organic Detritus	0.25±(0.44)	11.76	0.0121±(0.0374)	1.20	25.00	11.00
Unidentifiable bodies	0.41±(0.56)	19.12	0.21±(0.475)	20.76	37.50	22.31

Table F53. The annual food preferences of 5+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
WALLEYE (N=5)						
OSTEICHTHYES (fish)						
Catostomidae	1.20±(1.64)	40.00	0.78±(1.068)	36.27	40.00	30.60
Salmonidae	0.40±(0.55)	13.33	1.17±(1.60)	54.44	40.00	28.40
Unidentified fish	0.81±(0.84)	26.67	0.178±(0.172)	8.28	60.00	25.00
CLADOCERA (water fleas)						
<i>Daphnia schwaberi</i>	0.40±(0.89)	13.33	0.000±(0.0003)	0.000	20.00	8.80
OTHER:						
Unidentifiable bodies	0.20±(0.45)	6.67	0.023±(0.486)	1.01	20.00	7.30

Table F54. The annual food preferences of 6+ walleye from Lake Roosevelt in October, 1988.

PREY ITEM	WALLEYE (N=71)					
	NUMBER ($\bar{X} \pm \text{S.D.}$)		WEIGHT (ng) ($\bar{X} \pm \text{S.D.}$)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Percidae	2.50±(2.12)	62.50	4.073±(0.007)	95.21	100.00	73.60
OTHER:						
Unidentifiable bodies	1.50±(2.12)	37.50	0.205±(0.290)	4.79	50.00	26.40

Table F55. The annual food preferences of 0+ walleye from Lake Roosevelt in May, 1989.

PREY ITEM	WALLEYE (N=2)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Unidentified fish	0.50±(0.71)	6.67	0.01±(0.0136)	76.59	50.00	33.30
DIPTERA (midges)						
Chironomidae pupae	5.00±(7.07)	66.67	0.0014±(0.002)	10.71	50.00	31.80
Chironomidae larvae	0.50±(0.71)	6.67	0.0009±(0.0012)	6.75	50.00	15.90
PLECOPTERA (stoneflies)						
Pteronarcidae	1.50±(2.12)	20.00	0.0008±(0.001)	5.95	50.00	19.00

Table F56. The annual food preferences of 1+ walleye from Lake Roosevelt in May, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	%	(X±S.D.)	(%)		
WALLEYE (N=8)						
OSTEICHTHYES (fish)						
Cottidae	0.63±(0.52)	8.06	0.073±(0.067)	88.58	62.50	39.80
Unidentified fish	0.25±(0.46)	3.23	0.007±(0.013)	8.55	25.00	9.20
DIPTERA (midges)						
Chironomidae pupae	4.00±(5.48)	51.61	0.001±(0.002)	1.20	50.00	25.70
EPHEMEROPTERA (mayflies)						
Baetidae	2.63±(4.57)	33.87	0.0007±(0.001)	0.86	37.50	18.10
OTHER:						
Organic Detritus	0.25±(0.46)	3.23	0.0007±(0.002)	0.82	25.00	7.30

Table F57. The annual food preferences of 2+ walleye from Lake Roosevelt in May, 1989.

WALLEYE (N=83)						
PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
OSTEICHTHYES (fish)						
Cottidae	0.33±(0.70)	2.59	0.035±(0.08)	66.35	15.00	25.00
Unidentified fish	0.42±(0.78)	3.24	0.014±(0.044)	25.30	17.50	13.60
AMPHPODA (scuds)						
Hyaella	0.04±(0.20)	0.32	0.000±(0.000)	0.01	2.50	0.64
ISOPODA (sow bugs)						
Asellus	0.04±(0.20)	0.32	0.000±(0.000)	0.02	2.50	0.64
DIPTERA (midges)						
Chironomidae pupae	9.04±(12.99)	70.23	0.0017±(0.004)	3.22	35.00	32.20
Chironomidae larvae	1.58±(2.34)	12.30	0.0007±(0.002)	1.31	27.50	12.20
Simulidae pupae	0.13±(0.45)	0.97	0.000±(0.0006)	0.17	5.00	1.90
Simulidae larvae	0.13±(0.61)	0.97	0.000±(0.0003)	0.01	2.50	1.03
PLEOPTERA (stoneflies)						
Pteronarcidae	0.87±(2.80)	6.47	0.0004±(0.002)	0.52	10.00	5.10
ODOMATA (dragonflies)						
Anisoptera	0.08±(0.25)	0.65	0.0001±(0.0004)	0.21	5.00	1.74
OTHER:						
Organic Detritus	0.17±(0.38)	1.29	0.0012±(0.004)	2.25	10.00	4.00
Unidentifiable bodies	0.08±(0.41)	0.65	0.0003±(0.0015)	0.64	4.17	1.62

Table F58. The annual food preferences of 3+ walleye from Lake Roosevelt in May, 1989.

PREY ITEM	WALLEYE (N=45)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) %		OCCURRENCE %	IRI %
OSTEICHTHYES (fish)						
Cottidae	0 31±(0.86)	2.32	0.040±(0.127)	6.64	15.63	6.35
Cyprinidae	0 03±(0.18)	0.23	0.01±(0.055)	1.59	3.13	1.26
Salmonidae	0.09±(0.39)	0.70	0.338±(1.555)	55.82	9.36	17.00
Unidentified fish	0.53±(0.66)	3.94	0.15±(0.552)	24.71	37.50	17.10
AMPHIPODA (scuds)						
Hyalella	0 03±(0.18)	0.23	0.000±(0.0004)	0.01	3.13	0.67
ISOPODA (sow bugs)						
Asellus	0 03ff(0.16)	0.23	0.0001±(0.0006)	0.02	3.13	0.67
MOLLUSCA (muscles)						
Planorbidae	0.25±(1.41)	1.86	0.0032±(0.18)	0.53	3.13	1.42
Speandae	3.59±(20.33)	26.66	0.005±(0.029)	0.63	3.13	8.00
DIPTERA (midges)						
Chironomidae pupae	4.50±(14.32)	33.41	0.0009±(0.0051)	0.15	31.25	16.70
Chironomidae larvae	3.19±(9.82)	23.67	0.0004±(0.0021)	0.06	21.88	11.80
Simuliidae larvae	0 25±(1.41)	1.86	0 000±(0 000)	0.000	3.13	1.29
TRICHOPTERA (caddisflies)						
Leptoceridae	0.03±(0.18)	0.23	0.000±(0.0001)	0.000	3.13	0.67
PLECOPTERA (stonefly)						
Perlodidae	0.03±(0.18)	0.23	0.0001±(0.0006)	0.02	3.13	0.67
Pteronarctidae	0 03±(0.18)	0.23	0 0001±(0.0006)	0.02	3.13	0.87
ODONATA (dragonfly)						
Anisoptera	0 16±(0.51)	1.16	0.000±(0.0006)	0 000	9.38	2.72
COLEOPTERA (beetles)						
Elmidae	0 03±(0.18)	0.23	0 000±(0 0003)	0 01	3.13	0.90
OTHER:						
Organic Detritus	0.22±(0.49)	1.62	0.021±(0.089)	3.44	18.75	6.14
Inorganic Detritus	0.16±(0.45)	1.16	0.037±(0.118)	6.16	12.50	5.10

Table F59. The annual food preferences of 4+ walleye from Lake Roosevelt in May, 1989.

PREY ITEM	WALLEYE (N=36)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	0.43±(0.81)	6.16	0.018±(0.036)	1.21	26.57	9.44
Percidae	0.05±(0.22)	0.68	0.04±(0.176)	2.71	4.76	2.15
Salmonidae	0.19±(0.40)	2.74	1.056±(2.574)	70.95	19.05	24.30
Unidentified fish	0.67±(0.97)	9.59	0.369±(0.93)	24.81	42.86	20.30
AMPHIPODA (scuds)						
Gammarus	0.05±(0.22)	0.66	0.0001±(0.0006)	0.01	4.76	1.43
DIPTERA (midges)						
Chironomidae pupae	2.14±(6.76)	30.82	0.0006±(0.002)	0.04	23.81	14.30
Chironomidae larvae	2.29±(10.25)	32.68	0.0009±(0.0033)	0.06	9.52	11.15
EPHEMEROPTERA (may-flies)						
Heptagenidae	0.71±(3.27)	10.27	0.0002±(0.0008)	0.01	4.76	4.00
OTHER:						
Terrestrial	0.14±(0.36)	2.05	0.000±(0.000)	0.000	14.29	4.30
Organic Detritus	0.24±(0.44)	3.42	0.0029±(0.0058)	0.19	23.81	7.20
Unidentifiable bodies	0.05±(0.22)	0.68	0.000±(0.0004)	0.01	4.76	1.43

Table F60. The annual food preferences of 5+ walleye from Lake Roosevelt in May, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	(X±S.D.)	(%)	(X±S.D.)	(%)		
OSTEICHTHYES (fish) Unidentified fish	1 00±(1.00)	27. 27	1 507±(1.778)	92. 12	66. 67	39 90
DIPTERA (midges)						
Chironomidae pupae	1 00±(1.73)	27. 27	0.0016±(0.0028)	0. 10	66. 67	20. 10
Chironomidae larvae	0.67±(1.15)	18. 18	0.002±(0.0019)	0 0 7	66. 67	18. 20
OTHER:						
Cestoda	0.67±(1.15)	18. 18	0.04±(0.069)	2. 43	33. 33	11. 60
Organic Detritus	0 33±(0.58)	9 09	0 0864±(0.15)	5. 28	33. 33	10. 20

Table F61. The annual food preferences of 0+ walleye from Lake Roosevelt in August, 1989.

PREY ITEM	WALLEYE (N=21)					
	NUMBER ($\bar{X} \pm \text{S.D.}$) (%)		WEIGHT (mg) ($\bar{X} \pm \text{S.D.}$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Catostomidae	0.10±(0.30)	2.38	0.036±(0.14)	53.64	63.3	22.40
Cottidae	0.48±(1.12)	11.90	0.0172±(0.0578)	25.94	25.00	21.90
Unidentified fish	0.81±(0.68)	20.24	0.0134±(0.0207)	20.23	45.83	30.00
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	2.52±(11.57)	63.10	0.0001±(0.0006)	0.18	4.17	23.50
DIPTERA (midges)						
Chironomidae larvae	0.10±(0.44)	2.38	0.000±(0.000)	0.01	4.17	2.30

Table F62. The annual food preferences of 1+ walleye from Lake Roosevelt in August, 1989.

PREY ITEM	WALLEYE (N=83)					
	NUMBER ($\bar{X} \pm S.D.$)		WEIGHT (mg) ($\bar{X} \pm S.D.$)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	1.71±(3.33)	41.38	0.076±(0.182)	20.49	38.10	30.00
Cyprinidae	0.05±(0.22)	1.15	0.0057±(0.0261)	1.53	9.52	3.70
Percidae	0.14±(0.36)	3.45	0.119±(0.42)	31.97	28.57	19.20
Salmonidae	0.10±(0.30)	2.30	0.0927±(0.402)	24.96	9.52	11.00
Unidentified fish	2.05±(3.40)	49.43	0.078±(0.141)	21.05	38.10	32.60
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	0.05±(0.22)	1.15	0.000±(0.0002)	0.000	4.76	1.80
DIPTERA (midges)						
Chironomidae larvae	0.05±(0.22)	1.15	0.000±(0.0001)	0.000	4.76	1.80

Table F63. The annual food preferences of 2+ walleye from Lake Roosevelt' in August, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI %
	(X±S.D.)	(%)	(X±S.D.)	(%)		
WALLEYE (N=36)						
OSTEICHTHYES (fish)						
Cottidae	1 10±(2.60)	29.20	0 07±(0.174)	23 18	30.00	22.90
Percidae	0 33±(0.71)	8.85	0.195±(0.586)	65.09	20.00	26.10
Unidentified fish	1 03±(0.94)	27.43	0 032±(0.078)	10.68	40.00	21.70
MOLLUSCA (clams)						
Sphaeriidae	0 03±(0.18)	0.88	0 000±(0.000)	0.01	3.33	1.17
DIPTERA (midges)						
Chironomidae pupae	0 40±(0.97)	0.97	0.0003±(0.0012)	0.10	23.33	9.50
Chironomidae larvae	0.07±(0.25)	1.77	0 000±(0.000)	0.000	6.67	2.34
OTHER:						
Cestoda	0.10±(0.40)	2.65	0.000±(0.0001)	0.000	3.33	1.66
Terrestrial	0 40±(2.19)	10.62	0.0003±(0.0016)	0.10	3.33	3.90
Organic Detritus	0 30±(0.47)	7.96	0 0025±(0.0059)	0.84	30.00	10.80

Table F64. The annual food preferences of 3+ walleye from Lake Roosevelt in August, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCURRENCE	IRI
	(X±S.D.)	(%)	(X±S.D.)	%	(%)	(%)
OSTEICHTHYES (fish)						
Cottidae	1 50±(2.46)	40.34	0 069±(0.14)	38.91	43.75	36.44
Cyprinidae	0.50±(1.85)	13.45	0.023±(0.094)	15.64	9.38	11.40
Percidae	0 25±(1.08)	6.72	0.007±(0.03)	4.05	9.38	6.00
Unidentified fish	1 22±(2.11)	32.77	0 0694±(0.143)	39.07	53.13	37.02
DIPTERA (midges)						
Chironomidae pupae	0.03±(0.18)	0.84	0.000±(0.0005)	0.05	3.13	1.20
OTHER:						
Terrestrial	0.03±(0.18)	0.84	0.0001±(0.0006)	0.06	3.13	1.19
Organic Detritus	0.19±(0.47)	5.04	0.004±(0.0166)	2.23	15.63	6.78

Table F65. The annual food preferences of 4+ walleye from Lake Roosevelt in August, 1989.

PREY ITEM	WALLEYE (N=33)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	1 20±(2.09)	32.88	0.091±(0.1665)	16.98	33.33	24.40
Cyprinidae	0.35±(1.57)	9.59	0.0078±(0.0356)	1.44	4.76	4.62
Percidae	0 55±(1.05)	15.07	0.407±(0.935)	75.51	28.57	34.90
Unidentified fish	1 00±(1.56)	27.40	0 024±(0.0422)	4.49	38.10	20.50
DIPTERA (midges)						
Chironomidae pupae	0.05±(0.22)	13.7	0.000±(0.0002)	0.01	4.76	1.80
OTHER:						
Terrestrial	0.10±(0.31)	2.74	0.000±(0.0003)	0.01	9.52	3.60
Organic Detritus	0.35±(0.67)	9.59	0.0083±(0.0245)	1.55	23.81	10.24

Table F66. The annual food preferences of 0+ walleye from Lake Roosevelt in October, 1989.

PREY ITEM	WALLEYE (N=16)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) %		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Percidae	0.19±(0.40)	0.17	0.040±(0.094)	53.19	18.75	16.50
Unidentified fish	0.19±(0.40)	0.17	0.0253±(0.0768)	33.62	18.75	12.00
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	53.88±(159.69)	49.31	0.0041±(0.0135)	5.45	25.00	162.3
<i>Daphnia thorata</i>	1.75±(7.00)	1.60	0.000±(0.0002)	0.01	6.25	1.80
<i>Daphnia galeata mendota</i>	0.25±(0.77)	0.23	0.000±(0.0002)	0.01	6.25	1.49
<i>Leptodora kindtii</i>	48.63±(94.48)	44.51	0.0053±(0.01)	7.04	43.75	21.80
EUCOPEPODA (copepods)						
<i>Bryocampus</i> spp.	0.06±(0.25)	0.06	0.000±(0.00008)	0.01	6.25	1.44
DIPTERA (midges)						
Chironomidae pupae	3.19±(4.39)	2.92	0.0002±(0.0014)	0.21	56.25	13.70
Chironomidae larvae	0.38±(1.09)	0.34	0.000±(0.0004)	0.01	12.50	2.94
TRICHOPTERA (caddisflies)						
Hydropsychidae	0.38±(1.26)	0.34	0.0004±(0.0006)	0.06	12.50	2.95
OTHER:						
Terrestrial	0.25±(0.58)	0.23	0.0002±(0.0016)	0.25	18.75	4.40
Organic Detritus	0.06±(0.25)	0.06	0.000±(0.0002)	0.01	6.25	1.44
Unidentifiable bodies	0.06±(0.25)	0.06	0.0001±(0.0005)	0.15	6.25	1.49

Table F67. The annual food preferences of 1+ walleye from Lake Roosevelt in October, 1989.

PREY ITEM	WALLEYE (N=17)					
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cyprinidae	0.22±(0.67)	9.52	0.111±(0.425)	13.57	13.33	10.12
Percidae	0.44±(0.73)	19.05	0.583±(0.924)	71.22	40.00	36.19
Unidentified fish	0.78±(0.97)	33.33	0.1035±(0.183)	12.64	46.67	25.73
DIPTERA (midges)						
Chironomidae pupae	0.11±(0.33)	4.76	0.0002±(0.0008)	0.03	6.67	3.18
Chironomidae larvae	0.11±(0.33)	4.76	0.0003±(0.0012)	0.04	6.67	3.19
OTHER:						
Terrestrial	0.22±(0.44)	9.52	0.000±(0.0009)	0.0	13.33	6.35
Organic Detritus	0.44±(0.73)	19.05	0.0206±(0.0478)	2.51	33.33	15.25

Table F68. The annual food preferences of 2+ walleye from Lake Roosevelt in October, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	(X±S.D.)	%	(X±S.D.)	(%)	%	%
OSTEICHTHYES (fish)						
Cottidae	0.07±(0.26)	2.17	0.053±(0.206)	3.72	6.67	3.25
Percidae	0.80±(1.08)	26.09	0.899±(1.335)	62.84	46.67	35.10
Salmonidae	0.07±(0.26)	2.17	0.1225±(0.474)	8.56	6.67	4.50
Unidentified fish	1.27±(2.31)	41.30	0.298±(0.564)	20.85	53.33	29.90
MOLLUSKA (clams)						
Sphaeriidae	0.07±(0.26)	2.17	0.000±(0.0001)	0.000	6.67	2.30
DIPTERA (midges)						
Chironomidae larvae	0.07±(0.26)	2.17	0.000±(0.000)	0.000	6.67	2.30
OTHER:						
Organic Detritus	0.67±(0.72)	21.74	0.044±(0.0893)	3.00	53.33	20.21
Inorganic Detritus	0.07±(0.26)	2.17	0.014±(0.0528)	0.95	6.67	2.53

Table F69. The annual food preferences of 3+ walleye from Lake Roosevelt in October, 1989.

PREY ITEM	WALLEYE (N=17)					
	NUMBER (X±S.D.) (%)		WEIGHT (mg) (X±S.D.) (%)		OCCURRENCE (%)	IRI (%)
OSTEICHTHYES (fish)						
Cottidae	0.41±(1.06)	12.50	0.0334±(0.0812)	2.32	17.65	8.61
Percidae	1.35±(2.23)	41.07	1.152±(2.029)	80.08	47.06	44.80
Unidentified fish	1.18±(1.07)	35.71	0.24±(0.296)	16.66	76.47	34.20
OTHER:						
Organic Detritus	0.35±(0.61)	10.71	0.0135±(0.0327)	0.94	35.29	12.44

Table F70. The annual food preferences of 4+ walleye from Lake Roosevelt in October, 1989.

PREY ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	%	%
OSTEICHTHYES (fish)						
Percidae	0.27±(0.47)	11.11	0.547±(1.399)	37.78	17.64	22.18
Unidentified fish	1.45±(1.04)	59.26	0.822±(1.541)	56.60	52.94	56.34
OTHER:						
Cestoda	0.09±(0.30)	3.70	0.0075±(0.0238)	0.52	5.86	3.37
Organic Detritus	0.64±(0.92)	25.93	0.0709±(0.154)	4.60	23.52	18.12

Table F71. The annual food preferences of 1+ Lake whitefish from Lake Roosevelt in May, 1989.

PREY ITEM	LAKE WHITEFISH (N=1)				OCCURRENCE %	IRI %
	NUMBER		WEIGHT (mg)			
	($\bar{X} \pm S.D.$)	%	($\bar{X} \pm S.D.$)	%		
DIPTERA (midges) Chironomidae larvae	16±(0.0)	76.19	0.0001±(0.00)	2.94	100.00	73.90
TRICOPTERA (caddisflies) Brachycentridae	5.0±(0.0)	23.18	0.0033±(0.00)	97.06	100.00	26.10

Table F72. The annual food preferences of 3+ Lake whitefish from Lake Roosevelt in May, 1989.

PREY ITEM	LAKE WHITEFISH (N=2)				OCCURRENCE (%)	IRI (%)
	NUMBER		WEIGHT (mg)			
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)		
MOLLUSKA (clam)						
Sphaeriidae	70.5 ± (0.0)	56.18	0.0494 ± (0.0698)	29.67	50.0	54.17
DIPTERA (midges)						
Chironomidae pupae	7.5 ± (7.78)	5.98	0.0073 ± (0.0054)	4.36	100.0	6.49
Chironomidae larvae	34 ± (38.18)	27.09	0.0105 ± (0.0007)	6.31	100.0	26.69
Simuliidae pupae	2.0 ± (0.0)	1.59	0.0001 ± (0.0004)	0.03	50.0	1.91
HEMIPTERA (bugs)						
Corixidae	0.5 ± (0.0)	0.40	0.0031 ± (0.0044)	1.06	50.0	0.76
EPHEMEROPTERA (mayflies)						
Baetidae	6.5 ± (0.0)	5.18	0.0014 ± (0.002)	0.84	50.0	5.34
HYDRACHNELLAE (spider)						
Hydracarina	3.5 ± (3.54)	2.79	.0009 ± (.0006)	0.51	100.0	.51

Table F73. The annual food preferences of 4+ Lake whitefish from Lake Roosevelt in May, 1989.

PREY ITEM	LAKE WHITEFISH (N=13)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
ISOPODA (sow bugs)						
Asellus	0.15±(0.58)	0.08	0.0006±(0.0021)	0.14	7.69	0.11
BASOMMATOPHORA (snail)						
Planorbidae	2.23±(7.22)	1.13	0.0099±(0.0255)	2.38	15.38	1.18
MOLLUSKA (clam)						
Sphaeriidae	34.23±(97.05)	17.36	0.0572±(0.0668)	13.74	69.23	54.17
DIPTERA (midges)						
Chironomidae pupae	26.62±(121.03)	13.49	0.0101±(0.0213)	2.44	69.23	13.52
Chironomidae larvae	72±(215.5)	36.51	0.0134±(0.0204)	3.21	61.54	35.95
TRICOPTERA (caddisflies)						
Hydropsychidae	0.69±(2.59)	0.35	0.0014±(0.0052)	0.34	7.69	0.36
Lepidostomatidae	31.54±(115.9)	15.99	0.0708±(0.2518)	17.01	15.38	15.72
EPHEMEROPTERA (mayflies)						
Ephemerellidae	1.62±(6.05)	0.62	0.0031±(0.0111)	0.74	7.69	0.84
Heptagenidae	6.69±(19.26)	3.39	0.0056±(0.0099)	1.35	30.46	3.5
COLEOPTERA (beetles)						
Elmidae	0.08±(0.39)	0.04	0.0001±(0.0004)	0.03	7.69	0.08
HYDRACHNELLAE (spider)						
Hydracarina	19.69±(483.37)	9.98	0.0031±(0.0057)	0.74	36.46	9.94
OTHER:						
Organic Detritus	1.38±(3.7)	0.70	0.2179±(0.2336)	52.34	69.23	1.13
Inorganic Detritus	0.38±(1.29)	0.20	0.0231±(0.0615)	5.55	23.08	0.31

Table F74. The annual food preferences of 5+ Lake whitefish from Lake Roosevelt in May, 1989.

PREY ITEM	LAKE WHITEFISH (N=6)				OCCURRENCE (%)	IRI (%)
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)			
BASOMMATOPHORA (snail) Planorbidae	0.17±(0.00)	0.04	0.0002±(0.0005)	0.05	16.67	0.08
MOLLUSKA (clam) Sphaeriidae	11.33±(22.2)	2.85	0.0108±(0.0215)	2.69	50.00	2.91
DIPTERA (midges)						
Chironomidae pupae	63±(126)	15.79	0.0208±(0.0383)	5.18	50.00	5.18
Chironomidae larvae	5.67±(0.00)	1.42	0.0011±(0.0026)	0.27	16.67	1.43
EPHEMEROPTERA (mayflies) Heptageniidae	0.17±(0.00)	0.04	0.0001±(0.0003)	0.03	16.67	0.08
COLEOPTERA (beetles) Elmidae	0.17±(0.00)	0.04	0.0002±(0.0006)	0.06	16.67	0.08
HYDRACHNELLAE (spider) Hydracarina	322±(552)	80.95	0.0961±(0.1498)	23.91	50.00	79.26
OTHER:						
Organic Detritus	0.83±(0.98)	0.21	0.0562±(0.1139)	13.98	50.00	0.34
Inorganic	0.5±(0.84)	0.13	0.2163±(0.5017)	53.84	33.33	0.26

Table F75. The annual food preferences of 1+ Lake whitefish from Lake Roosevelt in August, 1989.

PREY ITEM	LAKE WHITEFISH (N=1)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
ISOPODA (sow bugs)						
Asellus	2.0±(0.00)	1.5	0.01±(0.00)	12.61	100.00	1.45
BASOMMATOPHORA (snail)						
Planorbidae	1.0±(0.00)	0.75	0.00±(0.00)	2.90	100.00	1.44
MOLLUSKA (clam)						
Sphaeriidae	2.2±(0.00)	16.54	0.01±(0.00)	10.90	100.00	16.55
DIPTERA (midges)						
Chironomidae pupae	3.0±(0.00)	2.26	0.00±(0.00)	0.51	100.00	2.88
TRICOPTERA (caddisflies)						
Leptoceridae	33±(0.00)	24.81	0.01±(0.00)	23.17	100.00	24.46
Lepidostomatidae	71±(0.00)	53.38	0.03±(0.00)	49.74	100.00	51.80
HYDRACHNELLAE (spider)						
Hydracarina	1.0±(0.00)	0.75	0.00±(0.00)	0.17	100.00	1.44

Table F76. The annual food preferences of 2+ Lake whitefish from Lake Roosevelt in August, 1989.

PREY ITEM	LAKE WHITEFISH (N=1)				OCCURRENCE (%)	IRI (%)
	NUMBER ($\bar{X} \pm S.D.$) (%)		WEIGHT (mg) ($\bar{X} \pm S.D.$) (%)			
MOLLUSKA (clam) Sphaeriidae	2.0±(0.00)	2.44	0.00±(0.00)	0.24	100.00	3.40
DIPTERA (midges) Chironomidae pupae	43.0±(0.00)	52.44	0.04±(0.00)	26.05	100.00	49.95
Chironomidae larvae	1.0±(0.00)	1.22	0.00±(0.00)	0.73	100.00	2.27
HYDRACHNELLAE (spider) Hydracarina	34.0±(0.00)	41.46	0.00±(0.00)	0.91	100.00	39.70
OTHER: Terrestrial	1.0±(0.00)	0.00	0.0026±(0.00)	1.56	100.00	2.27
Organic Detritus	2.0±(0.00)	2.44	0.12±(0.00)	70.48	100.00	3.54

Table F77. The annual food preferences of 3+ Lake whitefish from Lake Roosevelt in August, 1989.

PREY ITEM	LAKE WHITEFISH (N=6)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
CLADOCERA (water fleas)						
<i>Daphnia pulicaria</i>	13.83±(26.82)	56.08	0.00±(0.0002)	0.35	33.33	51.19
<i>Daphnia rerrocurva</i>	0.17±(0.41)	0.68	0.00±(0.0003)	0.35	16.67	1.22
<i>Leotodora kindtii</i>	0.5±(0.84)	2.03	0.00±(0.0005)	0.35	3.33	3.01
DIPTERA (midges)						
Chironomidae pupae	5.33±(5.99)	21.62	0.00±(0.0042)	62.68	50.00	21.07
Chironomidae larvae	0.67±(1.63)	2.70	0.00±(0.0004)	0.35	16.67	3.02
TRICOPTERA (caddisflies)						
Hydropsychidae	0.33±(.82)	1.35	0.00±(0.0007)	6.34	16.67	1.80
HYDRACHNELLAE (spider)						
Hydracarina	3.0±(3.46)	12.16	0.0±(.0005)	0.35	50.00	12.65
OTHER:						
Organic Detritus	0.17±(0.41)	0.68	0.00±(0.0005)	4.58	16.67	1.22
Inorganic Detritus	0.17±(0.41)	0.68	0.00±(0.0018)	16.20	16.67	1.22
Unidentifiable bodies	0.5±(0.55)	2.03	0.00±(0.0006)	8.45	50.00	3.61

Table F78. The annual food preferences of 4+ Lake whitefish from Lake Roosevelt in August, 1989.

TAXON ITEM	NUMBER		WEIGHT (mg)		OCCURRENCE (%)	IRI (%)
	($\bar{X} \pm S.D.$)	%	($\bar{X} \pm S.D.$)	%		
OSTEICHTHYES (fish)						
Fish eggs	2.72±(19.23)	1.03	0.00±(0.0168)	10.22	2.00	1.03
SOPODA (sow bugs)						
Asellus	0.04±(0.28)	0.02	0.00±(0.0001)	0.09	2.00	0.02
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	88.02±(383.5)	33.48	0.00±(0.0180)	15.23	42.00	33.19
<i>Daphnia thorata</i>	89.22±(531.4)	33.93	0.00±(0.0081)	6.12	20.00	33.55
<i>Daphnia retrocurva</i>	0.08±(0.34)	0.03	0.00±(0.0004)	0.33	6.00	0.05
<i>Daphnia galeata mendota</i>	0.12±(0.72)	0.05	0.00±(0.0003)	0.32	4.00	0.06
<i>Leptodora kindtii</i>	61.98±(323.4)	23.57	0.00±(0.0179)	17.58	8.00	23.29
<i>Alona affinis</i>	0.06±(0.31)	0.02	0.00±(0.0003)	0.09	0.00	0.02
<i>Sida crystallina</i>	0.02±(0.14)	0.01	0.00±(0.0000)	0.01	0.00	0.01
COPEPODA (copepods)						
Diaptomus spp.	0.02±(0.14)	0.01	0.00±(0.0001)	0.01	2.00	0.02
Epischura spp.	0.02±(0.14)	0.01	0.00±(0.0000)	0.01	2.00	0.02
STRACODA (seed shrimp)						
Cypridae	0.02±(0.14)	0.01	0.00±(0.0003)	0.01	0.00	0.02
MOLLUSKA (clam)						
Sphaeriidae	1.44±(6.52)	0.55	0.00±(0.0074)	5.17	18.18	0.59
DIPTERA (midges)						
Chironomidae pupae	9.8±(17.38)	3.73	0.01±(0.0110)	26.11	63.64	3.94
Chironomidae larvae	2.32±(6.99)	0.88	0.00±(0.0033)	2.00	54.55	1.06
TRICOPTERA (caddisflies)						
Hydropsychidae	0.64±(3.82)	0.24	0.00±(0.0019)	0.64	10.00	0.28
PLECOPTERA (stoneflies)						
Pteronarcyidae	0.06±(0.31)	0.02	0.00±(0.0007)	0.50	4.00	0.04
EPHEMEROPTERA (mayflies)						
Baetidae	0.04±(0.2)	0.02	0.00±(0.0002)	0.00	4.00	0.03
HYDRACHNELLAE (spider)						
Hydracarina	5.44±(17.04)	2.07	0.00±(0.0009)	0.00	48.00	2.22
OTHER:						
Terrestrial	0.06±(0.24)	0.02	0.00±(0.0002)	0.00	6.00	0.05
Organic Detritus	0.18±(0.39)	0.07	0.00±(0.0015)	1.50	18.00	0.14
Inorganic	0.32±(1.23)	0.12	0.00±(0.0172)	10.80	10.00	0.16
Unidentifiable bodies	0.32±(0.52)	0.12	0.00±(0.0034)	3.00	30.00	0.23

Table F79. The annual food preferences of 5+ Lake whitefish from Lake Roosevelt in August, 1989.

PREY ITEM	LAKE WHITEFISH (N=11)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	3.64±(3.93)	4.41	0.00±(0.0027)	2.99	63.64	4.95
<i>Daphnia thorata</i>	48.73±(92.39)	59.10	0.00±(0.0028)	6.59	27.27	56.68
<i>Daphnia retrocurva</i>	0.27±(0.9)	0.33	0.00±(0.0005)	0.70	9.09	0.42
<i>Daphnia galeata mendota</i>	0.64±(1.12)	0.77	0.00±(0.0005)	0.78	27.27	1.06
<i>Leptodora kindtii</i>	11.82±(26.97)	14.33	0.00±(0.0034)	6.06	36.36	14.09
MOLLUSKA (clam)						
Sphaeriidae	0.18±(0.4)	0.22	0.00±(0.0004)	0.65	18.18	0.42
DIPTERA (midges)						
Chironomidae pupae	11.36±(17.3)	13.78	0.01±(0.0211)	61.48	63.64	13.89
Chironomidae larvae	4.09±(7.13)	4.96	0.00±(0.0006)	0.04	54.55	5.36
HYDRACHNELLAE (spider)						
Hydracarina	1.09±(2.39)	1.32	0.000±(0.00)	0.04	36.36	1.68
OTHER:						
Terrestrial	0.09±(0.3)	0.11	0.00±(0.0055)	7.53	9.09	0.21
Organic Detritus	0.27±(0.47)	0.33	0.00±(0.0033)	5.89	27.27	0.63
Unidentifiable bodies	0.27±(0.47)	0.33	0.00±(0.0032)	7.25	27.27	0.63

Table F80. The annual food preferences of 6+ Lake whitefish from Lake Roosevelt in August, 1989.

PREY ITEM	LAKE WHITEFISH (N=1)				OCCURRENCE (%)	IRI (%)
	NUMBER ($\bar{X} \pm S.D.$)		WEIGHT (mg) ($\bar{X} \pm S.D.$)			
		%		(%)		%
TRICOPTERA (caddisflies)						
Hydroptilidae	1.0±(0.00)	25.00	0.0001±(0.00)	5.56	100.00	25.00
OTHER:						
Terrestrial	1.0±(0.00)	25.00	0.0001±(0.00)	5.56	100.00	25.00
Organic Detritus	1.0±(0.00)	25.00	0.0008±(0.00)	44.44	100.00	25.00
Unidentifiable bodies	1.0±(0.00)	25.00	0.0008±(0.00)	44.44	100.00	25.00

Table F81. The annual food preferences of 1+ Lake whitefish from Lake Roosevelt in October, 1989.

PREY ITEM	LAKE WHITEFISH (N=10)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	2641±(1391)	99.21	0.1364±(0.0896)	99.29	100.00	99.10
<i>Leptodora kindtii</i>	17.7±(14.73)	0.66	0.0009±(0.0021)	0.64	80.00	0.69
BASOMMATOPHORA (snail)						
Planorbidae	0.1f(0.32)	0.00	0.00±(0.0008)	0.01	10.00	0.01
MOLLUSKA (clam)						
Sphaeriidae	0.2±(0.63)	0.01	0.00±(0.0003)	0.01	10.00	0.01
DIPTERA (midges)						
Chironomidae pupae	1.0f(1.83)	0.04	0.00±(0.0008)	0.01	50.00	0.05
Chironomidae larvae	0.7±(1.06)	0.03	0.00±(0.0006)	0.01	40.00	0.04
TRICOPTERA (caddisflies)						
Leptoceridae	0.4±(0.97)	0.02	0.00±(0.0009)	0.01	20.00	0.02
EPHEMEROPTERA (mayflies:						
Baetidae	0.6±(0.97)	0.02	0.00±(0.0006)	0.01	40.00	0.04
HYDRACHNELLAE (spider)						
Hydracarina	0.2±(0.63)	0.01	0.00±(0.0006)	0.01	10.00	0.01
OTHER:						
Terrestrial	0.1f(0.32)	0.00	0.00±(0.0001)	0.01	10.00	0.01
Organic Detritus	0.1±(0.32)	0.00	0.00±(0.0007)	0.01	10.00	0.01
Unidentifiable bodies	0.1±(0.32)	0.00	0.00±(0.0013)	0.01	10.00	0.01

Table F82. The annual food preferences of 2+ Lake whitefish from Lake Roosevelt in October, 1989.

PREY ITEM	LAKE WHITEFISH (N=2)					
	NUMBER		WEIGHT (mg)		OCCURRENCE IRI	
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
DIPTERA (midges)						
Chironomidae pupae	1.5 ± (2.12)	3.61	0.0001 ± (0.0008)	0.14	50.00	4.44
Chironomidae larvae	8.0 ± (9.9)	19.28	0.0001 ± (0.0001)	0.14	100.00	19.98
TRICOPTERA (caddisflies)						
Hydropsychidae	8.5 ± (12.02)	20.48	0.0128 ± (0.0181)	35.80	50.00	20.01
PYRALIDAE (caterpillars)						
Pyralidae	23.5 ± (33.23)	56.63	0.0228 ± (0.0322)	63.78	50.00	53.34
OTHER:						
Unidentifiable bodies	0.5 ± (0.71)	1.20	0.0001 ± (0.001)	0.14	50.00	2.22

Table F83. The annual food preferences of 3+ Lake whitefish from Lake Roosevelt in October, 1989.

PREY ITEM	LAKE WHITEFISH (N=2)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
CLADOCERA (water fleas)						
<i>Daphnia schødleri</i>	8786±(7305)	99.99	0.3521±(0.2391)	99.99	100.00	99.98
<i>Lepidodora kindtii</i>	1.0f(1.41)	0.01	0.0001±(0.0019)	0.01	50.00	0.02

Table F84. The annual food preferences of 4+ Lake whitefish from Lake Roosevelt in October, 1989.

PREY ITEM	LAKE WHITEFISH (N=2)					
	NUMBER		WEIGHT (mg)		OCCURRENCE IRI	
	($\bar{X} \pm S.D.$)	%	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
CLADOCERA (water fleas) <i>Daphnia schødleri</i>	1353±(1913)	99.89	0.0631±(0.0892)	1740	50.00	99.68
BASOMMATOPHORA (snail) Lymnaidae	15±(2.12)	0.11	0.0434±(0.0613)	11.95	50.00	0.15
OTHER: Unidentifiable bodies	15±(2.12)	0.11	0.2562±(0.3623)	70.65	50.0	0.17

Table F85. The annual food preferences of 5+ Lake whitefish from Lake Roosevelt in October, 1989.

PREY ITEM	LAKE WHITEFISH (N=5)					
	NUMBER		WEIGHT (mg)		OCCURRENCE IRI	
	($\bar{X} \pm S.D.$)	%	($\bar{X} \pm S.D.$)	(%)	(%)	(%)
ISOPODA (sow bugs)						
Asellus	2.0±(3.94)	1.00	0.0008±(0.0013)	0.34	40.00	1.16
CLADOCERA (water fleas)						
<i>Daphnia schwdleri</i>	66.8±(129.61)	33.50	0.002±(0.007)	0.86	80.00	32.59
<i>Lepidodora kindtii</i>	9.6±(17.24)	4.81	0.0001±(0.0014)	0.05	60.00	4.92
<i>Alona affinis</i>	0.2±(0.45)	0.10	0.00±(0.0007)	0.01	20.00	0.19
EUCOPEPODA (copepods)						
Diaptomus spp.	0.2±(0.45)	0.10	0.00±(0.0053)	0.01	20.00	0.19
BASOMMATOPHORA (snarl)						
Lymnadae	1.2±(2.68)	0.60	0.0069±(0.0155)	2.98	20.00	0.68
Planorbidae	10.8±(24.15)	5.42	0.0548±(0.1226)	23.58	20.00	5.33
MOLLUSKA (clam)						
Sphaeriidae	55.8±(55.58)	27.98	0.844±(.1267)	36.29	60.00	27.23
DIPTERA (midges)						
Chironomidae pupae	39±(86.09)	19.56	.0028±(.0067)	1.20	60.00	19.07
Chironomidae larvae	7.4±(11.19)	3.71	0.0±(.0012)	0.01	80.00	3.95
TRICOPTERA (caddisflies)						
Leptoceridae	2.2±(4.92)	1.10	0.00±(0.0007)	0.01	20.00	1.16
Hydroptilidae	0.2±(0.45)	0.10	0.00±(0.00)	0.01	20.00	0.19
OLIGOCHEATA (worms)						
Lumbricoides	0.2±(0.45)	0.10	0.00±(0.0007)	0.01	20.00	0.19
HYDRACHNELLAE (spider)						
Hydracarina	2.6±(4.77)	1.30	0.00±(0.0011)	0.01	40.00	1.44
PYRALIDAE (caterpillars)						
Pyralidae	0.2±(0.45)	0.10	0.00±(0.0002)	0.01	20.00	0.19
OTHER:						
Organic Detritus	1.0±(1.0)	0.50	0.0095±(0.0103)	4.07	60.00	0.78
Inorganic	1.0±(0.0)	0.10	0.0025±(0.0057)	1.09	20.00	0.19
Unidentifiable bodies	0.8±(1.1)	0.40	0.0025±(0.0057)	29.48	40.00	0.61

Table F86. The annual food preferences of 6+ Lake whitefish from Lake Roosevelt in October, 1989.

PREY ITEM	LAKE WHITEFISH (N=4)					
	NUMBER		WEIGHT (mg)		OCCURRENCE	IRI
	($\bar{X} \pm S.D.$)	(%)	($\bar{X} \pm S.D.$)	(%)	(%)	%
CLADOCERA (water fleas)						
<i>Daphnia schwlderi</i>	376±(560)	99.08	0.0029±(0.0047)	63.84	75.00	98.50
<i>Daphnia thorata</i>	0.25±(0.5)	0.07	0.00±(0.0009)	0.45	25.00	0.13
<i>Leptodora kindtii</i>	1.0±(1.15)	0.26	0.00±(0.0003)	0.45	50.00	0.39
DIPTERA (midges)						
Chironomidae pupae	1.25±(1.89)	0.33	0.00±(0.0004)	0.45	50.00	0.46
Chironomidae larvae	0.75±(1.5)	0.20	0.00±(0.0006)	0.45	25.00	0.26
OTHER:						
Organic Detritus	0.25±(0.5)	0.07	0.0013±(0.0032)	28.57	25.00	0.13
Unidentifiable bodies	0.25±(0.5)	0.07	0.0003±(0.0007)	5.80	25.00	0.13

Table F87. Electivity of rainbow trout for different size ranges of Daphnia at index stations 2 and 3 on Lake Roosevelt in August, 1988.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	2	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.18	0.0	-0.18
		1.0-1.2	0.12	0.0	-0.12
		1.3-1.5	0.26	0.0	-0.26
		1.6-1.8	0.23	0.24	0.01
		1.9-2.1	0.10	0.18	0.08
		2.2-2.4	0.03	0.42	0.39
		2.5-2.7	0.06	0.13	0.07
		2.8-3.0	0.02	0.03	0.01
		3.1-3.3	0.0	0.0	0.0
3.4-3.6	0.0	0.0	0.0		

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.01	0.0	-0.01
		0.7-0.9	0.08	0.0	-0.08
		1.0-1.2	0.23	0.0	-0.23
		1.3-1.5	0.09	0.03	-0.06
		1.6-1.8	0.23	0.16	-0.07
		1.9-2.1	0.08	0.39	0.31
		2.2-2.4	0.19	0.16	-0.03
		2.5-2.7	0.06	0.19	0.13
		2.8-3.0	0.01	0.05	0.04
		3.1-3.3	0.01	0.02	0.01
3.4-3.6	0.0	0.0	0.0		

Table F88. Electivity of rainbow trout for different size ranges of Daphnia at index stations 4 and 5 on Lake Roosevelt in August, 1988.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	4	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.09	0.0	-0.09
		1.0-1.2	0.11	0.43	0.32
		1.3-1.5	0.10	0.33	0.23
		1.6-1.8	0.11	0.14	0.03
		1.9-2.1	0.22	0.10	-0.12
		2.2-2.4	0.18	0.0	-0.18
		2.5-2.7	0.09	0.0	-0.09
		2.8-3.0	0.06	0.0	-0.06
		3.1-3.3	0.04	0.0	-0.04
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	5	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.08	0.0	-0.08
		1.0-1.2	0.24	0.07	-0.17
		1.3-1.5	0.23	0.10	-0.13
		1.6-1.8	0.24	0.26	0.02
		1.9-2.1	0.17	0.33	0.16
		2.2-2.4	0.04	0.07	0.03
		2.5-2.7	0.0	0.17	0.17
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F89. Electivity of rainbow trout for different size ranges of Daphnia at index stations 6 and 7 on Lake Roosevelt in August, 1988.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	6	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.04	0.0	-0.04
		1.0-1.2	0.11	0.0	-0.11
		1.3-1.5	0.16	0.0	-0.16
		1.6-1.8	0.10	0.23	0.13
		1.9-2.1	0.26	0.30	0.04
		2.2-2.4	0.22	0.33	0.11
		2.5-2.7	0.11	0.15	0.04
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.05	0.0	-0.05
		1.0-1.2	0.05	0.0	-0.05
		1.3-1.5	0.06	0.06	0.0
		1.6-1.8	0.31	0.42	0.11
		1.9-2.1	0.34	0.15	-0.19
		2.2-2.4	0.16	0.29	0.13
		2.5-2.7	0.03	0.08	0.05
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F90. Electivity of rainbow trout for different size ranges of Daphnia at index stations 8 and 9 on Lake Roosevelt in August, 1988.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	8	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.02	0.0	-0.02
		1.0-1 .2	0.09	0.09	0.0
		1.3-1 .5	0.13	0.14	0.01
		1.6-1.8	0.20	0.14	-0.06
		1.9-2.1	0.17	0.32	0.15
		2.2-2.4	0.22	0.18	-0.04
		2.5-2.7	0.17	0.09	-0.08
		2.8-3.0	0.0	0.05	0.05
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	9	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.07	0.0	-0.07
		1.0-1 .2	0.07	0.18	0.11
		1.3-1 .5	0.10	0.71	0.61
		1.6-1 .8	0.30	0.12	-0.18
		1.9-2.1	0.20	0.0	-0.20
		2.2-2.4	0.23	0.0	-0.23
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.03	0.0	-0.03
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F91. Electivity of rainbow trout for different size ranges of Daphnia at index sites 3 and 4 on Lake Roosevelt in October, 1988.

Species: _____ RBT _____

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.02	0.0	-0.02
		0.7-0.9	0.18	0.0	-0.18
		1.0-1.2	0.22	0.0	-0.22
		1.3-1.5	0.16	0.04	-0.12
		1.6-1.8	0.12	0.21	0.09
		1.9-2.1	0.09	0.29	0.2
		2.2-2.4	0.13	0.20	0.07
		2.5-2.7	0.04	0.17	0.13
		2.8-3.0	0.04	0.07	0.03
		3.1-3.3	0.0	0.03	0.03
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	4	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.05	0.0	-0.05
		0.7-0.9	0.20	0.0	-0.20
		1.0-1.2	0.23	0.0	-0.23
		1.3-1.5	0.18	0.05	-0.13
		1.6-1.8	0.09	0.43	0.34
		1.9-2.1	0.07	0.29	0.22
		2.2-2.4	0.09	0.24	0.15
		2.5-2.7	0.07	0.0	-0.07
		2.8-3.0	0.02	0.0	-0.02
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F92. Electivity of rainbow trout for different size ranges of Daphnia at index sites 5 and 6 in Lake Roosevelt in October, 1988.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	5	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.08	0.0	-0.08
		0.7-0.9	0.30	0.0	-0.30
		1.0-1.2	0.38	0.06	-0.32
		1.3-1.5	0.08	0.11	0.03
		1.6-1.8	0.11	0.26	0.15
		1.9-2.1	0.05	0.23	0.18
		2.2-2.4	0.0	0.28	0.28
		2.5-2.7	0.0	0.06	0.06
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	6	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.15	0.0	-0.15
		0.7-0.9	0.27	0.0	-0.27
		1.0-1.2	0.20	0.03	-0.17
		1.3-1.5	0.07	0.07	0.0
		1.6-1.8	0.15	0.27	0.12
		1.9-2.1	0.05	0.32	0.27
		2.2-2.4	0.05	0.19	0.14
		2.5-2.7	0.05	0.08	0.03
		2.8-3.0	0.0	0.02	0.02
		3.1-3.3	0.0	0.02	0.02
		3.4-3.6	0.0	0.0	0.0

Table F93. Electivity of rainbow trout for different size ranges of Daphnia at index sites 7 and 8 on Lake Roosevelt in October, 1988.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.05	0.0	-0.05
		0.7-0.9	0.35	0.05	-0.30
		1.0-1.2	0.27	0.07	-0.20
		1.3-1.5	0.08	0.04	-0.04
		1.6-1.8	0.12	0.18	0.06
		1.9-2.1	0.10	0.29	0.19
		2.2-2.4	0.03	0.34	0.31
		2.5-2.7	0.0	0.04	0.04
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	8	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.03	0.0	-0.03
		0.7-0.9	0.25	0.0	-0.25
		1.0-1.2	0.22	0.21	-0.01
		1.3-1.5	0.17	0.33	0.16
		1.6-1.8	0.25	0.29	0.04
		1.9-2.1	0.08	0.13	0.05
		2.2-2.4	0.0	0.04	0.04
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F94. Electivity of rainbow trout for different size ranges of Daphnia at index sites 3 and 6 on Lake Roosevelt in May, 1989.

Species: _____ RBT _____

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
May 89	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.26	0.0	-0.26
		0.7-0.9	0.53	0.0	-0.53
		1.0-1.2	0.21	0.0	-0.21
		1.3-1.5	0.0	0.06	0.06
		1.6-1.8	0.0	0.44	0.44
		1.9-2.1	0.0	0.50	0.50
		2.2-2.4	0.0	0.0	0.0
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
May 89	6	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.47	0.0	-0.47
		0.7-0.9	0.18	0.0	-0.18
		1.0-1.2	0.18	0.03	-0.15
		1.3-1.5	0.12	0.03	-0.09
		1.6-1.8	0.06	0.32	0.44
		1.9-2.1	0.0	0.39	0.50
		2.2-2.4	0.0	0.14	0.0
		2.5-2.7	0.0	0.09	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F95. Electivity of rainbow trout for different size ranges of Daphnia at index sites 7 and 9 on Lake Roosevelt in May, 1989.

Species: _____ RBT _____

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
May 89	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.0	0.0	0.0
		1.0-1.2	0.0	0.08	-0.08
		1.3-1.5	1.0	0.11	-0.89
		1.6-1.8	0.0	0.35	0.35
		1.9-2.1	0.0	0.41	0.41
		2.2-2.4	0.0	0.05	0.05
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
May 89	9	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.0	0.0	0.0
		1.0-1.2	0.5	0.0	-0.5
		1.3-1.5	0.0	0.11	0.11
		1.6-1.8	0.5	0.31	0.26
		1.9-2.1	0.0	0.31	0.31
		2.2-2.4	0.0	0.23	0.23
		2.5-2.7	0.0	0.03	0.03
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F96. Electivity of rainbow trout for different size ranges of Daphnia at index sites 4 and 7 on Lake Roosevelt in August, 1989.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 89	4	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.02	0.0	-0.02
		0.7-0.9	0.13	0.0	-0.13
		1.0-1.2	0.24	0.05	-0.19
		1.3-1.5	0.15	0.13	-0.02
		1.6-1.8	0.08	0.13	0.05
		1.9-2.1	0.13	0.26	0.13
		2.2-2.4	0.14	0.21	0.07
		2.5-2.7	0.04	0.13	0.09
		2.8-3.0	0.06	0.10	0.04
		3.1-3.3	0.01	0.0	-0.01
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 89	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	6.06	0.0	0.0
		1.0-1.2	0.10	0.0	0.0
		1.3-1.5	0.06	0.17	0.11
		1.6-1.8	0.19	0.25	0.06
		1.9-2.1	0.31	0.38	0.07
		2.2-2.4	0.16	0.21	0.05
		2.5-2.7	0.10	0.0	-0.10
		2.8-3.0	0.02	0.0	-0.02
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F97. Electivity of rainbow trout for different size ranges of Daphnia at index sites 1 and 3 on Lake Roosevelt in October, 1989.

Species: _____ RBT _____

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	1	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.30	0.0	-0.3
		1.0-1 .2	0.19	0.0	-0.19
		1.3-1 .5	0.16	0.13	-0.03
		1.6-1 .8	0.21	0.27	0.06
		1.9-2.1	0.11	0.33	0.22
		2.2-2.4	0.03	0.19	0.16
		2.5-2.7	0.0	0.08	0.08
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.03	0.0	-0.03
		0.7-0.9	0.14	0.0	-0.14
		1.0-1 .2	0.19	0.02	-0.17
		1.3-1 .5	0.22	0.05	-0.17
		1.6-1 .8	0.14	0.19	0.05
		1.9-2.1	0.15	0.37	0.22
		2.2-2.4	0.08	0.19	0.11
		2.5-2.7	0.04	0.11	0.07
		2.8-3.0	0.02	0.03	0.01
		3.1-3.3	0.0	0.03	0.03
		3.4-3.6	0.0	0.0	0.0

Table F98. Electivity of rainbow trout for different size ranges of Daphnia at index sites 4 and 5 on Lake Roosevelt in October, 1989.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	4	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.03	0.0	-0.03
		1.0-1.2	0.17	0.13	-0.04
		1.3-1.5	0.33	0.25	-0.08
		1.6-1.8	0.11	0.63	0.52
		1.9-2.1	0.08	0.0	-0.08
		2.2-2.4	0.19	0.0	-0.19
		2.5-2.7	0.06	0.0	-0.06
		2.8-3.0	0.03	0.0	-0.03
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	5	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.11	0.0	-0.11
		1.0-1.2	0.11	0.0	-0.11
		1.3-1.5	0.11	0.20	0.09
		1.6-1.8	0.41	0.80	0.39
		1.9-2.1	0.19	0.0	-0.19
		2.2-2.4	0.08	0.0	-0.08
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F99. Electivity of rainbow trout for different size ranges of Daphnia at index sites 7 and 8 on Lake Roosevelt in October, 1989.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Eiectivity Index
Oct 89	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.05	0.0	-0.05
		1.0-1.2	0.17	0.0	-0.17
		1.3-1.5	0.32	0.20	-0.12
		1.6-1.8	0.19	0.16	-0.03
		1.9-2.1	0.05	0.41	0.36
		2.2-2.4	0.10	0.16	0.06
		2.5-2.7	0.12	0.04	-0.08
		2.8-3.0	0.0	0.02	0.02
		3.1-3.3	0.0	0.02	0.02
3.4-3.6	0.0	0.0	0.0		

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Eiectivity Index
Oct 89	8	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.07	0.0	-0.07
		1.0-1.2	0.16	0.0	-0.16
		1.3-1.5	0.33	0.18	-0.15
		1.6-1.8	0.19	0.14	-0.05
		1.9-2.1	0.09	0.39	0.30
		2.2-2.4	0.09	0.25	0.16
		2.5-2.7	0.02	0.04	0.02
		2.8-3.0	0.05	0.0	0.05
		3.1-3.3	0.0	0.0	0.0
3.4-3.6	0.0	0.0	0.0		

Table F100. Electivity of rainbow trout for different size ranges of Daphnia at index site 9 on Lake Roosevelt in October, 1989.

Species: RBT

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	9	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.05	0.0	-0.05
		1.0-1.2	0.11	0.0	-0.11
		1.3-1.5	0.24	0.04	-0.20
		1.6-1.8	0.11	0.22	0.11
		1.9-2.1	0.32	0.58	0.26
		2.2-2.4	0.11	0.13	0.02
		2.5-2.7	0.06	0.03	-0.03
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F101. Electivity of rainbow trout for different size ranges of Daphnia at nine index stations on Lake Roosevelt, August 1988.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm\text{SD})$	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
0.1-0.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0±0
0.4-0.6		0.0	-0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.01±0
0.7-0.9		-0.18	-0.08	-0.09	-0.08	-0.04	-0.05	-0.02	-0.07		-0.08±0.05
1.0-1.2		-0.12	-0.23	0.32	-0.17	-0.11	-0.05	0.0	0.11		-0.03±0.18
1.3-1.5		-0.26	-0.06	0.23	-0.13	-0.16	0.0	0.01	0.61		0.03±0.28
1.6-1.8		0.01	-0.07	0.03	0.02	0.13	0.11	-0.06	-0.18		-0.001±0.10
1.9-2.1		0.08	0.31	-0.12	0.16	0.04	-0.19	0.15	-0.20		0.03±0.18
2.2-2.4		0.39	-0.03	-0.18	0.03	0.11	0.13	-0.04	-0.23		0.02±0.19
2.5-2.7		0.07	0.13	-0.09	0.17	0.04	0.05	-0.08	0.0		0.04±0.09
2.8-3.0		0.01	0.04	-0.06	0.0	0.0	0.0	0.05	-0.03		0.001±0.04
3.1-3.3		0.0	0.01	-0.04	0.0	0.0	0.0	0.0	0.0		-0.004±0.02
3.4-3.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0±0.0

Table F102. Electivity of rainbow trout for different size ranges of *Daphnia* at nine index stations on Lake Roosevelt, October 1988.

Daphnia Size Range (mm)	Index station									$\bar{X}(\text{Elec}) (\pm\text{SD})$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3			0.0	0.0	0.0	0.0	0.0	0.0		0.0±0
0.4-0.6			-0.02	-0.05	-0.08	-0.15	-0.05	-0.03		-0.06±0.05
0.7-0.9			-0.18	-0.20	-0.30	-0.27	-0.30	-0.25		-0.25±0.05
1.0-1.2			-0.22	-0.23	-0.32	-0.17	-0.20	-0.01		-0.19±0.10
1.3-1.5			-0.12	-0.13	0.03	0.0	-0.04	0.16		-0.02±0.11
1.6-1.8			0.09	0.34	0.15	0.12	-0.06	0.04		0.11±0.13
1.9-2.1			0.20	0.22	0.18	0.27	0.19	0.05		0.19±0.07
2.2-2.4			0.07	0.15	0.28	0.14	0.31	0.04		0.17±0.11
2.5-2.7			0.13	-0.07	0.06	0.03	0.04	0.0		0.03±0.07
2.8-3.0			0.03	-0.02	0.0	0.02	0.0	0.0		0.005±0.02
3.1-3.3			0.03	0.0	0.0	0.02	0.0	0.0		0.008±0.01
3.4-3.6			0.0	0.0	0.0	0.0	0.0	0.0		0.0±0

Table F103. Electivity of rainbow trout for different size ranges of *Daphnia* at nine index stations on Lake Roosevelt, May 1989.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm\text{SD})$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3			0.0			0.0	0.0		0.0	0.0±0
0.4-0.6			-0.26			-0.47	0.0		0.0	-0.18±0.23
0.7-0.9			-0.53			-0.18	0.0		0.0	-0.18±0.25
1.0-1.2			-0.21			-0.15	-0.08		-0.50	-0.24±0.18
1.3-1.5			0.06			-0.09	-0.89		0.11	-0.20±0.47
1.6-1.8			0.44			0.44	0.35		0.26	0.37±0.09
1.9-2.1			0.50			0.50	0.41		0.31	0.43±0.09
2.2-2.4			0.0			0.0	0.05		0.23	0.07±0.11
2.5-2.7			0.0			0.0	0.0		0.03	0.008±0.02
2.8-3.0			0.0			0.0	0.0		0.0	0.0±0
3.1-3.3			0.0			0.0	0.0		0.0	0.0±0
3.4-3.6			0.0			0.0	0.0		0.0	0.0±0

Table F104. Electivity of rainbow trout for different size ranges of *Daphnia* at nine index stations on Lake Roosevelt, August 1989.

Daphnia SizeRange (mm)	Index Station									X(Elec) (*SD)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3				0.0			0.0			0.0
0.4-0.6				-0.02			0.0			-0.01±0.01
0.7-0.9				-0.13			-0.06			-0.10±0.05
1.0-1.2				-0.19			-0.10			-0.15±0.06
1.3-1.5				-0.02			0.11			0.05±0.07
1.6-1.8				0.05			0.06			0.06±0.06
1.9-2.1				0.13			0.07			0.1±0.03
2.2-2.4				0.07			0.05			0.06±0.01
2.5-2.7				0.09			-0.10			-0.01±0.10
2.8-3.0				0.04			-0.02			0.01±0.03
3.1-3.3				-0.01			0.0			-0.01±0.01
3.4-3.6				0.0			0.0			0.0±0.0

Table F105. Electivity of rainbow trout for different size ranges of Daphnia at nine index stations on Lake Roosevelt, October 1989.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm\text{SD})$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0±0.0
0.4-0.6	0.0		-0.03	0.0	0.0		0.0	0.0	0.0	-0.004±0.01
0.7-0.9	-0.30		-0.14	-0.03	-0.11		-0.05	-0.07	-0.05	-0.07±0.04
1.0-1.2	-0.19		-0.17	-0.04	-0.11		-0.17	-0.16	-0.11	-0.14±0.05
1.3-1.5	-0.03		-0.17	-0.08	0.09		-0.12	-0.15	-0.20	-0.09±0.09
1.6-1.8	0.06		0.05	0.52	0.39		-0.03	-0.05	0.11	0.15±0.20
1.9-2.1	0.22		0.22	-0.08	-0.19		0.36	0.30	0.26	0.16±0.19
2.2-2.4	0.16		0.11	-0.19	-0.08		0.06	0.16	0.02	0.03±0.12
2.5-2.7	0.08		0.07	-0.06	0.0		-0.08	0.02	-0.03	0.03±0.09
2.8-3.0	0.0		0.01	-0.03	0.0		0.02	0.05	0.0	0.004±0.02
3.1-3.3	0.0		0.03	0.0	0.0		0.02	0.0	0.0	0.007±0.01
3.4-3.6	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0±0

Table F106. Electivity of kokanee for different size ranges of Daphnia at index sites 3 and 5 on Lake Roosevelt in August, 1988.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.01	0.0	-0.01
		0.7-0.9	0.08	0.0	-0.08
		1.0-1.2	0.23	0.0	-0.23
		1.3-1.5	0.09	0.04	-0.05
		1.6-1.8	0.23	0.28	0.05
		1.9-2.1	0.08	0.52	0.44
		2.2-2.4	0.19	0.15	-0.04
		2.5-2.7	0.06	0.0	-0.06
		2.8-3.0	0.01	0.0	-0.01
		3.1-3.3	0.01	0.0	-0.01
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 88	5	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.08	0.0	-0.08
		1.0-1.2	0.24	0.0	-0.24
		1.3-1.5	0.23	0.13	-0.10
		1.6-1.8	0.24	0.38	0.14
		1.9-2.1	0.17	0.38	0.21
		2.2-2.4	0.04	0.13	0.09
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F107. Electivity of kokanee for different size ranges of Daphnia at index sites 5 and 6 on Lake Roosevelt in October, 1988.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	5	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.08	0.0	-0.08
		0.7-0.9	0.30	0.0	-0.30
		1.0-1.2	0.38	0.08	-0.30
		1.3-1.5	0.08	0.08	0.0
		1.6-1.8	0.11	0.34	0.23
		1.9-2.1	0.05	0.38	0.33
		2.2-2.4	0.0	0.08	0.08
		2.5-2.7	0.0	0.04	0.04
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
3.4-3.6	0.0	0.0	0.0		

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	6	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.15	0.0	-0.15
		0.7-0.9	0.27	0.02	-0.25
		1.0-1.2	0.20	0.07	-0.13
		1.3-1.5	0.07	0.39	0.32
		1.6-1.8	0.15	0.17	0.02
		1.9-2.1	0.05	0.28	0.23
		2.2-2.4	0.05	0.04	-0.01
		2.5-2.7	0.05	0.02	-0.03
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
3.4-3.6	0.0	0.0	0.0		

Table F108. Electivity of kokanee for different size ranges of Daphnia at index site 7 on Lake Roosevelt in October, 1988.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 88	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.05	0.0	-0.05
		0.7-0.9	0.35	0.14	-0.21
		1.0-1 .2	0.27	0.14	-0.13
		1.3-1 .5	0.08	0.71	0.63
		1.6-1 .8	0.12	0.0	-0.12
		1.9-2.1	0.10	0.0	-0.10
		2.2-2.4	0.03	0.0	-0.03
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
3.4-3.6	0.0	0.0	0.0		

Table F109. Electivity of kokanee for different size ranges of Daphnia at index sites 7 and 9 on Lake Roosevelt in May, 1989.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
May 89	7	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.0	0.0	0.0
		1.0-1.2	0.0	0.0	0.0
		1.3-1.5	1.0	0.41	-0.59
		1.6-1.8	0.0	0.53	0.53
		1.9-2.1	0.0	0.06	0.06
		2.2-2.4	0.0	0.0	0.0
		2.5-2.7	0.0	0.0	0.0
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index		
May 89	9	0.1-.03	0.0	0.0	0.0		
		0.4-0.6	0.0	0.0	0.0		
		0.7-0.9	0.0	0.0	0.0		
		1.0-1.2	0.5	0.08	-0.42		
		1.3-1.5	0.0	0.13	0.13		
		1.6-1.8	0.5	0.21	0.16		
		1.9-2.1	0.0	0.42	0.42		
				0.0	0.11	0.11	
				2.5-2.7	0.0	0.05	0.05
				2.8-3.0	0.0	0.0	0.0
				3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0		

Table F110. Electivity of kokanee for different size ranges of Daphnia at index site 3 on Lake Roosevelt in August, 1989.

Species: _____ KOK _____

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Aug 89	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.02	0.0	-0.02
		0.7-0.9	0.15	0.0	-0.15
		1.0-1.2	0.19	0.05	-0.14
		1.3-1.5	0.15	0.19	0.04
		1.6-1.8	0.25	0.28	0.03
		1.9-2.1	0.15	0.44	0.29
		2.2-2.4	0.08	0.02	-0.06
		2.5-2.7	0.0	0.02	0.02
		2.8-3.0	0.01	0.0	-0.01
		3.1-3.3	0.0	0.0	0.0
3.4-3.6	0.0	0.0	0.0		

Table F111. Electivity of kokanee for different size ranges of Daphnia at index sites 1 and 3 on Lake Roosevelt in October, 1989.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	1	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.30	0.0	-0.30
		1.0-1.2	0.19	0.0	-0.19
		1.3-1.5	0.16	0.07	-0.09
		1.6-1.8	0.21	0.05	-0.16
		1.9-2.1	0.11	0.52	0.41
		2.2-2.4	0.03	0.30	0.27
		2.5-2.7	0.0	0.02	0.02
		2.8-3.0	0.0	0.05	0.05
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity index
Oct 89	3	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.03	0.0	-0.03
		0.7-0.9	0.14	0.0	-0.14
		1.0-1.2	0.19	0.03	-0.16
		1.3-1.5	0.22	0.38	0.16
		1.6-1.8	0.14	0.32	0.18
		1.9-2.1	0.15	0.22	0.07
		2.2-2.4	0.08	0.05	-0.03
		2.5-2.7	0.04	0.0	-0.04
		2.8-3.0	0.02	0.0	-0.02
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F112. Electivity of kokanee for different size ranges of Daphnia at index sites 5 and 6 on Lake Roosevelt in **Ocotober**, 1989.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	5	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.11	0.0	-0.11
		1.0-1.2	0.11	0.0	-0.11
		1.3-1.5	0.11	0.03	-0.08
		1.6-1.8	0.41	0.26	-0.15
		1.9-2.1	0.19	0.49	0.30
		2.2-2.4	0.08	0.14	0.06
		2.5-2.7	0.0	0.09	0.09
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	6	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.15	0.0	-0.15
		1.0-1.2	0.19	0.05	-0.14
		1.3-1.5	0.15	0.28	0.13
		1.6-1.8	0.12	0.54	0.42
		1.9-2.1	0.15	0.10	-0.05
		2.2-2.4	0.12	0.03	-0.09
		2.5-2.7	0.12	0.0	-0.12
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F113. Electivity of kokanee for different size ranges of Daphnia at index sites 8 and 9 on Lake Roosevelt in October, 1989.

Species: KOK

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	8	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.07	0.0	-0.07
		1.0-1.2	0.16	0.0	-0.16
		1.3-1.5	0.33	0.11	-0.22
		1.6-1.8	0.19	0.40	0.21
		1.9-2.1	0.09	0.43	0.34
		2.2-2.4	0.09	0.06	-0.03
		2.5-2.7	0.02	0.0	-0.02
		2.8-3.0	0.05	0.0	-0.05
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	-0.0

Date	Loc	Daphnia size Ranges (mm)	% in Environment	% in fish diet	Electivity Index
Oct 89	9	0.1-.03	0.0	0.0	0.0
		0.4-0.6	0.0	0.0	0.0
		0.7-0.9	0.05	0.0	-0.05
		1.0-1.2	0.11	0.0	-0.11
		1.3-1.5	0.24	0.03	-0.21
		1.6-1.8	0.11	0.10	-0.01
		1.9-2.1	0.32	0.63	0.31
		2.2-2.4	0.11	0.18	0.07
		2.5-2.7	0.06	0.08	0.02
		2.8-3.0	0.0	0.0	0.0
		3.1-3.3	0.0	0.0	0.0
		3.4-3.6	0.0	0.0	0.0

Table F114. **Electivity** of kokanee salmon for different size ranges of Daphnia at nine index stations on Lake Roosevelt August, 1988.

Daphnia Size Range (mm)	Index Station									X(Elec) (\pm SD)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3			0.0		0.0					0.0 \pm 0
0.4-0.6			-0.01		0.0					-0.005 \pm 0.007
0.7-0.9			-0.08		-0.08					-0.08 \pm 0
1.0-1.2			-0.23		-0.24					-0.24 \pm 0.007
1.3-1.5			-0.05		-0.10					-0.08 \pm 0.04
1.6-1.8			0.05		0.14					0.10 \pm 0.06
1.9-2.1			0.44		0.21					0.33 \pm 0.16
2.2-2.4			-0.04		0.09					0.03 \pm 0.09
2.5-2.7			-0.06		0.0					-0.03 \pm 0.04
2.8-3.0			-0.01		0.0					-0.005 \pm 0.007
3.1-3.3			-0.01		0.0					-0.005 \pm 0.007
3.4-3.6			0.0		0.0					0.0 \pm 0

Table F115. **Electivity** of kokanee salmon for different size ranges of Daphnia at nine index stations on Lake Roosevelt October, 1988.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm\text{SD})$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3					0.0	0.0	0.0			0.0±0
0.4-0.6					-0.08	-0.15	-0.05			-0.09±0.05
0.7-0.9					-0.30	-0.25	-0.21			-0.25±0.05
1.0-1.2					-0.30	-0.13	-0.13			-0.19±0.10
1.3-1.5					0.0	0.32	0.63			0.32±0.32
1.6-1.8					0.23	0.02	-0.12			0.04±0.18
1.9-2.1					0.33	0.23	-0.10			0.15±0.23
2.2-2.4					0.08	-0.01	-0.03			0.01±0.06
2.5-2.7					0.04	-0.03	0.0			0.003±0.04
2.8-3.0					0.0	0.0	0.0			0.0±0
3.1-3.3					0.0	0.0	0.0			0.0±0
3.4-3.6					0.0	0.0	0.0			0.0±0

Table **F116. Electivity** of kokanee salmon for different size ranges of Daphnia at nine index stations on Lake Roosevelt May, 1989.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm SD)$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3							0.0		0.0	0.0±0
0.4-0.6							0.0		0.0	0.0±0
0.7-0.9							0.0		0.0	0.0±0
1.0-1.2							0.0		-0.42	-0.21±0.30
1.3-1.5							-0.59		0.13	-0.23±0.51
1.6-1.8							0.53		0.16	0.35±0.26
1.9-2.1							0.06		0.42	0.24±0.25
2.2-2.4							0.0		0.11	0.06±0.08
2.5-2.7							0.0		0.05	0.03±0.04
2.8-3.0							0.0		0.0	0.0±0
3.1-3.3							0.0		0.0	0.0±0
3.4-3.6							0.0		0.0	0.0±0

Table F117. **Electivity** of kokanee salmon for different size ranges of Daphnia at nine index stations on Lake Roosevelt August, 1989.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm\text{SD})$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3			0.0							0.0±0
0.4-0.6			-0.02							-0.2±0
0.7-0.9			-0.15							-0.15±0
1.0-1.2			-0.14							-0.14±0
1.3-1.5			0.04							0.04±0
1.6-1.8			0.03							0.03±0
1.9-2.1			0.29							0.29±0
2.2-2.4			-0.06							-0.06±0
2.5-2.7			0.02							0.02±0
2.8-3.0			-0.01							-0.01±0
3.1-3.3			0.0							0.0±0
3.4-3.6			0.0							0.0±0

Table F118. **Electivity** of kokanee salmon for different size ranges of Daphnia at nine index stations on Lake Roosevelt October, 1989.

Daphnia Size Range (mm)	Index Station									$\bar{X}(\text{Elec}) (\pm\text{SD})$
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
0.1-0.3	0.0		0.0		0.0	0.0		0.0	0.0	0.0±0
0.4-0.6	0.0		-0.03		0.0	0.0		0.0	0.0	-0.005±0.01
0.7-0.9	-0.30		-0.14		-0.11	-0.15		-0.07	-0.05	-0.14±0.08
1.0-1.2	-0.19		-0.16		-0.11	-0.14		-0.16	-0.11	-0.14±0.03
1.3-1.5	-0.09		0.16		-0.08	0.13		-0.22	-0.21	-0.05±0.15
1.6-1.8	-0.16		0.18		-0.15	0.42		0.21	-0.01	0.08±0.21
1.9-2.1	0.41		0.07		0.30	-0.05		0.34	0.31	0.23±0.16
2.2-2.4	0.27		-0.03		0.06	-0.09		-0.03	0.07	0.04±0.12
2.5-2.7	0.02		-0.04		0.09	-0.12		-0.02	0.02	-0.008±0.06
2.8-3.0	0.05		-0.02		0.0	0.0		-0.05	0.0	-0.003±0.03
3.1-3.3	0.0		0.0		0.0	0.0		0.0	0.0	0.0±0.0
3.4-3.6	0.0		0.0		0.0	0.0		0.0	0.0	0.0±0

APPENDIX G

KOKANEE FECUNDITY

Table G1. Kokanee length and weight versus fecundity relationships in Lake Roosevelt for 1988.

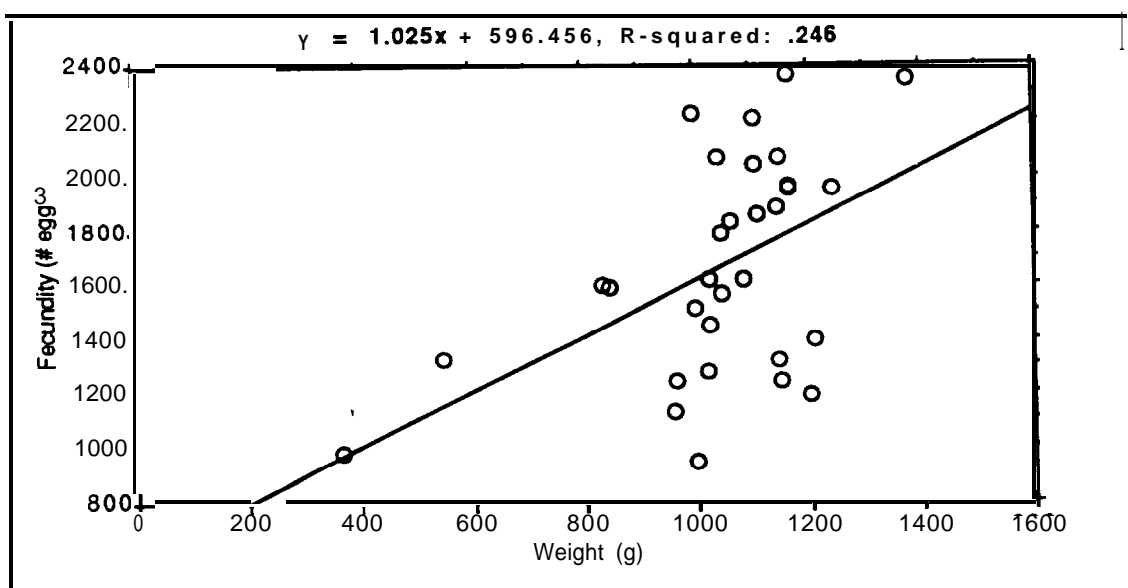
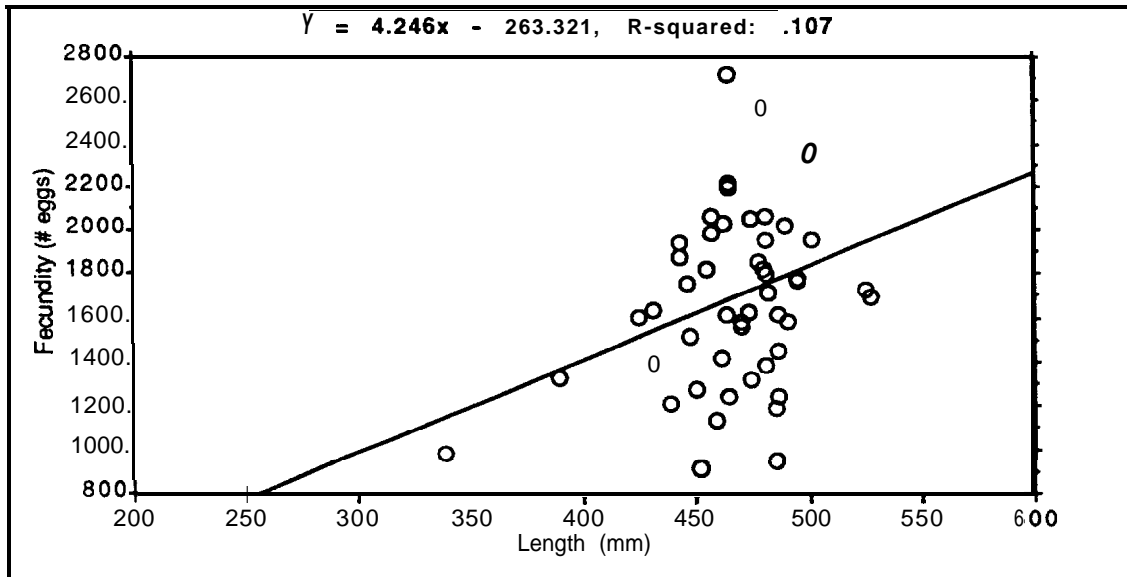
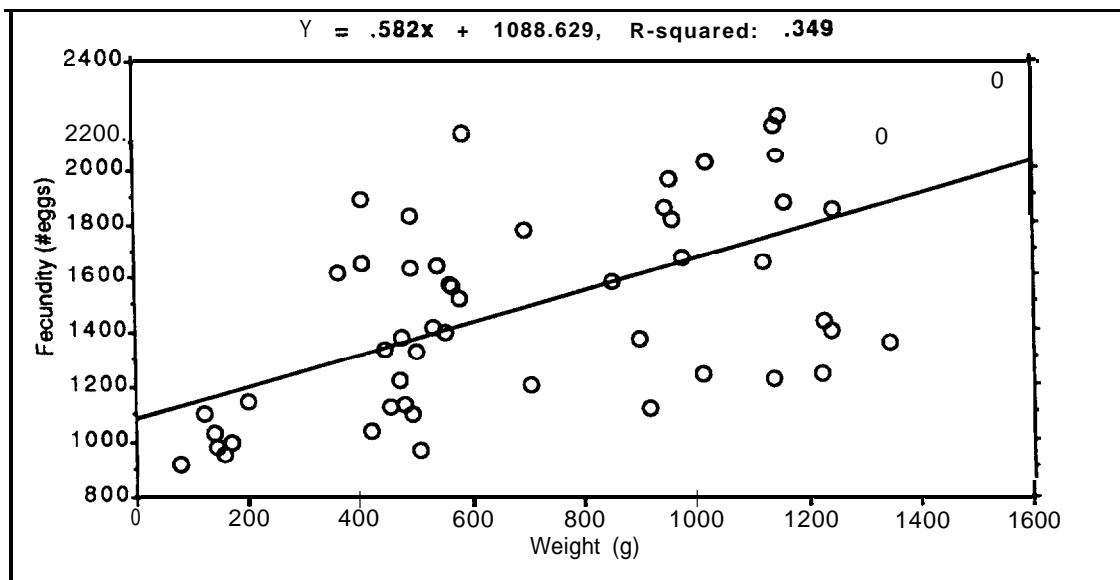
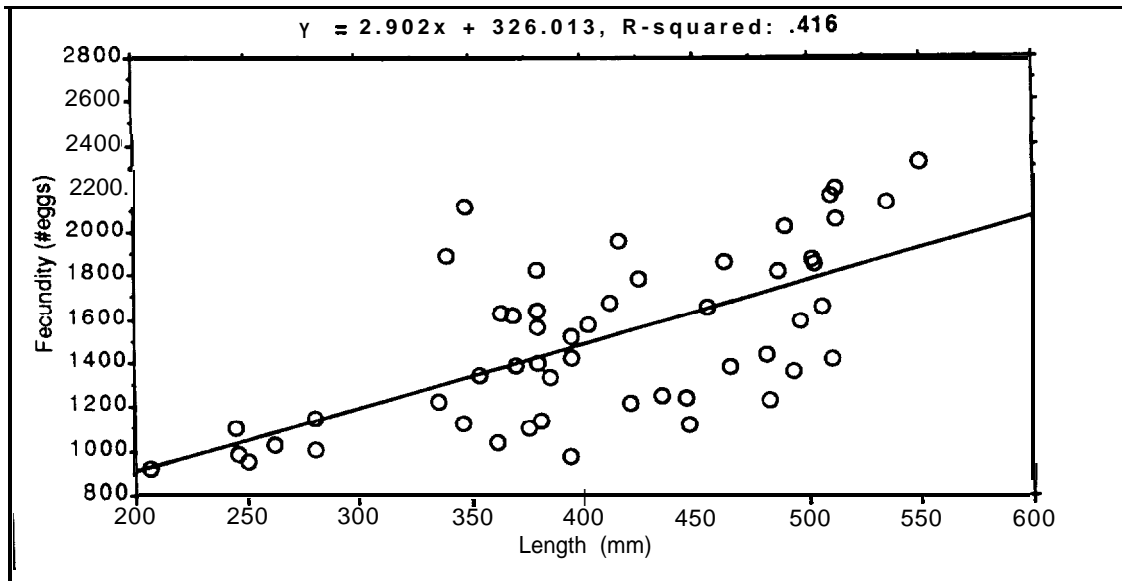


Table G2. Kokanee length and weight versus fecundity relationships in Lake Roosevelt for 1989.



APPENDIX H

WATER COLUMN PROFILE

Table H1. Secchi disk visibility (meters) Location 1-9 Lake Roosevelt, August 1988 - October 1989.

Loc:	Aug 1988	Oct 1988	May 1988	Aug 1988	Oct 1988	
1	5.0	4.2	2.7	5.0	6.5	
2	7.5	4.5	3.8	5.3	4.0	
3	8.0	3.8	3.0	4.5	9.2	
4	7.8	6.3	1.3	13.5	9.3	
5	8	3.7	2.0	3.0	5.5	
6	8.4	9.2	2.1	11.0	12.0	
7	8.0	10.3	2.2	13.0	8.0	
a	4.2	8.0	2.4	10.0	6.2	
9	8.8	8.5	3.5		9.2	
	Aug 1988	Sept 1988	Oct 1988	Nov 1988	Dec 1988	Jan 1989
4	5.0	9.2	4.2	5.8	4.0	3.5
6	8.4	7.2	9.2	7.4	3.5	4.8
	Feb 1989	Mar 1989	Apr 1989	May 1989	Jun 1989	Jul 1989
4	3.3	0.1	1.0	1.3	2.0	3.1
6	4.0	1.0	1.7	2.1	2.3	2.8
	Aug 1989	Sep 1989	Oct 1989	Nov 1989	Dec 1989	
4	13.5	10.5	9.3	6.2	5.3	
6	11.0	a.0	12.0	7.9	7.8	

Table H2. continued.

Loc	Depth (m)	Feb 1989	Mar 1989	Apr 1989	May 1989	Jun 1989	Jul 1989
6	surface	1.77	3.09	8.49	11.72	16.67	20.23
	6	1.76	3.01	7.99	11.66	16.69	19.47
	12	1.74	2.99	7.95	11.61	16.43	17.95
	18	1.73	2.99	8.01	11.54	15.15	16.89
	24	1.74	3.07	8.02	11.11	14.15	16.18
	30	1.74	3.10	7.85	10.84	13.48	15.90
	36	1.73		7.80			15.76
	42						15.51
	48						15.30
	54						14.92
	60						14.73
	66						14.31
MeanTemp		1.74±.01	3.04±.05	8.02±.21	11.41±.32	15.43±1.2	16.4±1.8
Loc	Depth (m)	Aug 1989	Sep 1989	Oct 1989	Nov 1989	Dec 1989	
6	surface	21.83	20.0	17.57	9.35	8.07	
	6	21.29		17.55	9.40	8.08	
	12	20.45		17.54	9.35	8.04	
	18	19.79		17.52	9.23	8.01	
	24	19.48		17.50	8.93	8.00	
	30	1a. 44		17.47	8.93	7.87	
	36	17.78		17.41	8.93	7.70	
	42			17.34	8.85	7.69	
	48			17.18	8.78	7.62	
	54			17.12	8.74	7.61	
	60			17.10	8.71	7.57	
	66					7.57	
MeanTemp		19.9±1.35	20.0±0	17.39±.17	9.0±.25	7.82±.20	

Table H3. Water temperature (°C) profiles of Lake Roosevelt (8188 - 10-89).

Loc	Depth (m)	Aug 1988	Sep 1988	Oct 1988	Nov 1988	Dec 1988
1	surface	18.52	13.27	10.61	19.87	15.64
	6	21.93	18.61	16.90	10.0	4.92
	12	20.25	18.56	16.85	10.0	4.94
	18	19.47	18.55	16.85	9.97	4.93
	24	17.67		16.35	9.95	4.95
	30			15.89	9.77	4.93
	36					4.96
Mean Depth		18.37±1.09	13.22±.02	10.54±.04	19.63±.11	15.60±.07
Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
2	surface	20.75	14.64	11.25	22.10	15.87
	6	19.57	14.56	10.67	21.60	16.27
	12	19.34	14.54	10.57	20.00	16.24
	18	19.04	14.51	10.52	19.80	16.24
	24	18.69	13.48	10.49	19.64	16.24
	30	18.63	14.47	10.48	19.52	16.24
	36			10.47	19.02	
Mean Depth		19.34±.71	14.37±.40	10.64±.26	20.24f1.06	16.18±.14
Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
3	surface	21.03	15.30	11.07	21.50	16.59
	6	20.50	15.26	10.74	21.34	16.52
	12	19.83	15.01	10.72	20.46	16.49
	18	19.29	14.92	10.72	19.61	16.43
	24	18.71	14.79	10.69	19.14	16.47
	30	18.59	14.69	10.68	18.50	16.47
	36			10.66		16.49
42			10.84			
Mean Depth		19.66±.89	14.99±.23	10.74±.13	20.09±1.11	16.49±.05
Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
4	surface	23.48	17.05	10.90	21.96	18.33
	6	21.93	16.90	10.56	21.75	17.94
	12	20.25	16.85	10.56	20.28	17.38
	16	19.47	16.85	10.50	18.03	17.33
	24	17.67	16.35	10.50	16.25	17.09
	30		15.89		14.27	15.81
	33				13.86	15.70
36					15.66	
Mean Depth		20.56±2.0	16.65±.40	10.60±.15	18.06±3.14	16.90±.98

Table H3. continued

Loc	Depth (m)	Aug 1988	Sep 1988	Oct 1988	Nov 1988	Dec 1988
5	surface	19.24	15.20	12.08	19.79	15.81
	3	19.23	15.17	11.87	19.78	15.80
	6	19.20	15.16	11.88	19.79	15.79
	9	19.21	15.16	11.76		15.79
Mean Depth		19.22±.02	15.17±.02	11.90±.12	19.79±.004	15.78±.008
Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
6	surface	20.74	15.90	22.08	21.83	17.57
	6	20.47	15.70	11.88	21.29	17.55
	12	19.75	15.70		20.45	17.54
	18	19.34	15.70		19.79	17.52
	24	18.71	15.68		19.48	17.50
	30	18.28	15.50		18.44	17.47
	36				17.78	17.41
	42					17.34
	48					17.18
	54					17.12
	60					17.10
	63					17.07
Mean Depth		19.55±.88	15.70±.12	16.98±5.1	19.87±1.35	17.36±.19
Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
7	surface	22.88	15.88	13.50	21.28	17.50
	6	21.51	15.91	10.42	20.85	17.53
	12	20.99	15.90	9.48	20.78	17.54
	18	19.07	15.91	9.40	20.68	17.54
	24	18.13	15.90	9.24	20.05	17.53
	30	18.01	15.90	8.93	19.64	17.54
	33	17.76		8.92	19.60	17.54
	36			8.86	19.54	17.53
	42			8.84	19.20	17.53
	48			8.82	19.07	17.52
	54			8.68		17.49
	60					17.44
63					17.41	
Mean Depth		19.76±1.87	15.90±.01	9.55±1.33	20.06±.73	17.51±.04
Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
8	surface	22.63	15.60	15.22	22.18	17.58
	6	22.04	15.60	10.63	20.65	17.59
	12	19.77	15.55	9.68	20.58	17.58
	18	19.21	15.44	9.38	20.05	17.60
	24	18.61	15.35	9.22	19.83	17.61
	30	17.80	15.30	9.05	19.73	17.60
	36			8.99	19.46	17.60
	42			8.95		17.61
	48			8.79		17.58
	51			8.77		17.58
Mean Depth		20.01±1.76	15.47±.12	9.87±1.86	20.21±.56	17.59±.01

Table H3. continued

Loc	Depth (m)	Aug 1988	Sep 1988	Oct 1988	Nov 1988	Dec 1988
9	surface	22.13	15.32	11.81	21.67	21.67
	6	21.37	15.32	11.56	21.55	21.55
	12	20.74	15.30	10.66	21.08	21.08
	18	18.76	15.24	10.29	20.74	20.74
	24	18.29	15.29	10.10	20.12	20.12
	30		15.27	9.82	19.60	19.60
	36			9.77	19.48	19.48
	42			9.70	19.20	19.20
	48			9.64		
Mean Depth		20.25±1.49	15.29f. 03	10.37±.77	20.43±.90	20.43±.90

Table H4. Conductivity units & ORP units means \bar{X} for Locations 1-9 Lake Roosevelt, sample periods 8/88, 10/88, 5/89, 8/89 a n d 10/89.

Loc:	Test	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
1	ORP \bar{X}	.174	.183	.139	.182	.189
	CON \bar{X}	.129	.142	.138	.144	.145
2	ORP \bar{X}	.201	.190	.221	.211	.192
	CON \bar{X}	.131	.140	.137	.140	.144
3	ORP \bar{X}	.173	.200	.220	.201	.186
	CON \bar{X}	.131	.137	.131	.139	.142
4	ORP \bar{X}		.196	.191	.206	.201
	CON \bar{X}	.139	.183	.074	.132	.180
5	ORP \bar{X}		.189	.204	.178	.201
	CON \bar{X}	.179	.218	.119	.164	.199
6	ORP \bar{X}	.234	.190	.228	.197	.171
	CON \bar{X}	.131	.133	.122	.138	.142
7	ORP \bar{X}	.188	.164	.188	.204	.176
	CON \bar{X}	.132	.132	.133	.138	.142
8	ORP \bar{X}	.193	.189	.200	.202	.197
	CON \bar{X}	.136	.135	.147	.137	.140
9	ORP \bar{X}		.173	.233	.227	.197
	CON \bar{X}	.135	.132	.133	.136	.140

Table H5. Dissolved oxygen (D.O.) profiles (mg/l) for Location 4 and 6 Lake Roosevelt.

Loc:	Depth (m)	Aug 1988	Sept 1988	Oct 1988	Nov 1988	Dec 1988
4	surface	7.52	7.25	8.02	9.50	11.35
	6	7.16	7.06	7.96	8.93	10.95
	12	5.76	6.99	7.78	8.88	10.80
	18	4.98	7.00	7.69	8.80	10.75
	24			6.58	8.77	10.74
	30			5.56	8.48	10.75
	36					10.67
	D.O.Mean					
	\bar{x}	6.35±1.03	7.07±.10	7.26±.90	8.89±.31	10.85±.22
Loc:	Depth (m)	Jan 1989	Feb 1989	Mar 1989	Apr 1989	May 1989
4	surface	12.10	12.42	13.00	13.40	12.70
	6	11.80	12.14	13.73	13.47	12.56
	12	11.80	12.14	13.93	13.42	12.52
	18	11.70	12.14	13.25	13.23	12.56
	24	11.70	12.04	12.93	13.11	12.45
	30	11.70	11.62	12.70	12.60	
	36					
	D.O. Mean					
	\bar{x}	11.80±.14	12.08f.24	13.26±.44	13.20±.29	12.55±.08
Loc:	Depth (m)	Jun 1989	Jul 1989	Aug 1989	Sep 1989	Oct 1989
4	surface	11.00	8.60	9.14		8.52
	6	10.97	9.32	8.72		8.13
	12	10.86	9.32	6.83		7.94
	18	10.97	9.32	5.48		7.46
	24	10.92	9.56	4.99		7.75
	30	10.88	9.65	1.41		7.39
	36		9.62	0.28		7.28
	D.O.Mean					
	\bar{x}	10.93f.05	9.34f.33	5.26f3.14		7.78f.41
Loc:	Depth (m)	Nov 1989	Dec 1989			
4	surface	9.88	9.67			
	6	9.44	9.22			
	12	9.56	9.14			
	18	9.84	9.15			
	24	10.17	9.28			
	30	10.39	9.26			
	36	10.37	9.31			
	D.O.Mean					
	\bar{x}	9.95f.35	9.29±.17			

Table H5. Continued.

Loc:	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
6	surface	8.87	8.78	9.3	10.40	12.33
	6	8.84	8.69	9.1	10.12	12.16
	12	8.59	8.66	9.1	10.05	12.16
	18	8.52	8.62	9.1	10.04	12.15
	24	8.46		9.0	10.03	12.15
	30	8.45		9.0	10.05	12.15
	36					12.14
	D.O. Mean					
	\bar{X}	8.62k.17	8.68±.06	9.10f.10	10.11f.13	12.17f.06
Loc:	Depth (m)	Jan 1989	Feb 1989	Mar 1989	Apr 1989	May 1989
6	surface	12.54	12.34	12.87	13.49	11.79
	6	12.33	12.17	12.85	12.94	11.92
	12	12.31	12.19	12.77	12.67	11.85
	18	12.29	12.11	12.77	12.38	11.86
	24	12.00	12.11	12.62	12.18	11.90
	30	11.94	12.10	12.52	12.17	11.72
	36		12.10		12.21	
	D.O. Mean					
	\bar{X}	12.23f.21	12.16f.08	12.73f.12	12.58f.46	11.84f.07
Loc:	Depth (m)	Jun 1989	Jul 1989	Aug 1989	Sep 1989	Oct 1989
6	surface	11.28	9.39	8.57		9.02
	6	11.34	9.70	8.72		8.73
	12	11.36	9.39	8.49		8.65
	18	11.24	9.31	8.26		8.54
	24	11.13	9.41	8.30		8.56
	30	11.26	9.48	8.24		8.52
	36		9.52	8.19		8.50
	D.O. Mean					
	\bar{X}	11.27±.07	9.46f.12	8.40±.18		8.65±.17
Loc:	Depth (m)	Nov 1989	Dec 1989			
6	surface	10.49	10.57			
	6	10.08	10.36			
	12	9.96	10.24			
	18	9.96	10.31			
	24	10.17	10.12			
	30	10.18	10.19			
	36	10.28	10.35			
	D.O. Mean					
\bar{X}	10.16f.17	10.30f.13				

Table H6. pH values for Location 1-9 Lake Roosevelt 8-88 through 12-89.

Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
1	surface	7.86	7.87	7.83	7.30	7.65
	6	7.72	7.82	7.74	7.61	7.70
	12	7.66	7.79	7.71	7.61	7.70
	18	7.64	7.78	7.69	7.62	7.70
	24	7.62	7.77	7.67	7.62	7.70
	30		7.77	7.65	7.62	7.67
	36				7.57	
Mean pH value		7.70±.09	7.80±.09	7.71±.04	7.56±.11	7.69±.02
Loc						
2	surface	7.67	7.81	7.18	8.27	7.66
	6	7.77	7.78	7.34	8.26	7.67
	12	7.66	7.76	7.48	7.77	7.65
	18	7.58	7.74	7.50	7.68	7.64
	24	7.50	7.74	7.50	7.62	7.63
	30	7.47	7.74	7.51	7.54	7.63
	36			7.52	7.37	
Mean pH value		7.61f.10	7.76±.03	7.43±.12	7.79532	7.65±.01
Loc						
3	surface	7.95	7.88	7.42	7.89	7.56
	6	7.99	7.78	7.45	8.07	7.57
	12	7.77	7.74	7.49	7.87	7.57
	18	7.60	7.72	7.49	7.59	7.57
	24	7.41	7.70	7.51	7.44	7.57
	30	7.35	7.69	7.52	7.31	7.57
	36			7.49		16.49
42			7.50			
Mean pH value		7.68±.25	7.75±.06	7.48±.03	7.69±.27	7.56±.003
Loc						
4	surface	8.30	7.72	7.75	8.03	7.57
	6	8.03	7.69	7.56	8.27	7.51
	12	7.48	7.65	7.51	7.69	7.47
	18	7.20	7.63	7.49	7.14	7.48
	24		7.51	7.46	6.90	7.43
	30		7.32		6.66	7.35
	36				6.49	7.33
Mean pH value		7.75±.43	7.59±.12	7.55±.10	7.31±.64	7.45±.08

Table H6. continued

Loc	Depth (m)	Aug 1988	Sep 1988	Oct 1988	Nov 1988	Dec 1988
5	surface	7.85	7.81	7.29	7.21	7.37
	3	7.89	7.56	7.29	7.27	7.37
	6	7.91	7.50	7.30	7.36	7.37
	9	7.92	7.46	7.31		7.37
Mean pH value		7.89f. 03	7.58±.14	7.29±.008	7.28±.06	7.37±0.0
Loc						
6	surface	7.72	7.65	6.97	7.60	7.55
	6	7.67	7.65	7.24	7.92	7.54
	12	7.52	7.65	7.39	7.76	7.53
	18	7.43	7.65	7.48	7.63	7.53
	24	7.36	7.64	7.46	7.54	7.53
	30	7.33	7.63	7.43	7.41	7.52
	36				7.31	7.52
	42					7.51
	48					7.52
	54					7.53
	60					7.53
	63					7.53
Mean pH value		7.50±.15	7.64±.007	7.33f. 18	7.59f. 19	7.52±.01
Loc						
7	surface	7.58	7.73	8.46	7.67	7.53
	6	7.82	7.64	8.17	7.79	7.53
	12	7.75	7.64	7.75	7.79	7.52
	18	7.52	7.64	7.71	7.75	7.52
	24	7.40	7.65	7.67	7.53	7.51
	30	7.33	7.65	7.63	7.41	7.52
	36			7.63	7.37	7.51
	42			7.76	7.30	7.50
	48			7.76	7.28	7.50
	54			7.70		7.47
	60					7.46
	63					7.44
Mean pH value		7.57±.18	7.66±.03	7.82k. 26	7.54f. 20	7.50±.03
Loc						
8	surface	7.90	7.80	8.48	7.54	7.65
	6	7.80	7.70	8.20	7.72	7.57
	12	7.60	7.70	7.88	7.69	7.56
	18	7.51	7.70	7.73	7.48	7.56
	24	7.40	7.70	7.67	7.39	7.55
	30	7.20	7.70	7.69	7.29	7.54
	36			7.68	7.19	7.55
	42			7.69		7.55
	48			7.76		7.55
	51			7.77		7.55
Mean pH value		7.57±.24	7.72±.04	7.85±.26	7.47±.18	7.56±.03

Table H6. continued

Loc	Depth (m)	Aug 1988	Sep 1988	Oct 1988	Nov 1988	Dec 1988
9	surface	7.93	7.59	8.02	8.08	7.65
	6	7.95	7.61	7.95	8.04	7.55
	12	7.90	7.58	7.68	7.89	7.53
	18	7.69	7.57	7.56	7.69	7.51
	24		7.55	7.53	7.55	7.52
	30		7.53	7.50	7.45	7.51
	36			7.49	7.40	7.51
	42			7.48	7.36	7.50
	48			7.47		7.49
Mean pH value		7.87±.10	7.57±.03	7.63±.20	7.68f. 27	7.53±.05

Table H7. Dissolved oxygen (D.O.) profiles (mg/l) for Locations 1-9 Lake Roosevelt 8-88 through 12-89.

Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
1	surface	10.21	10.76	12.48	9.32	10.18
	6	10.17	10.68	12.50	9.45	9.85
	12	10.14	10.56	12.34	9.26	9.85
	18	10.10	10.49	12.29	9.18	9.78
	24	10.06	10.41	12.25	9.19	9.76
	30		10.45	12.24	9.09	9.55
	36				8.77	
D.O. Mean		10.13±.05	10.56±.13	12.35±.10	9.18±.20	9.83±.19
Loc						
2	surface	9.20	10.29	11.81	9.15	9.35
	6	9.79	10.22	12.16	9.53	9.33
	12	9.44	10.12	12.14	8.53	9.31
	18	9.51	10.10	11.96	8.51	9.28
	24	9.62	10.04	11.96	8.42	9.28
	30	9.58	9.95	11.98	8.30	9.32
	36			11.92	7.92	
D.O. Mean		9.52±.18	10.12±.11	11.99±.11	8.62±.50	9.31±.03
Loc						
3	surface	9.62	9.83	11.87	9.05	9.35
	6	9.76	9.76	12.0	9.04	9.09
	12	9.37	9.79	11.92	8.77	9.00
	18	9.23	9.77	11.93	8.36	8.98
	24	8.93	9.84	11.83	8.12	8.94
	30	8.93	9.86	11.88	7.90	8.94
	36			11.85		8.94
42			11.84			
D.O. Mean		9.30±.32	9.80±.04	11.89±.05	8.54±.44	9.03±.14
Loc						
4	surface	7.52	8.02	12.70	9.14	8.52
	6	7.16	7.96	12.56	8.72	8.13
	12	5.76	7.78	12.52	6.83	7.94
	18	4.98	7.69	12.56	5.48	7.46
	24		6.58	12.45	4.99	7.75
	30		5.56		1.41	7.39
	36				.28	7.28
Mean pH value		6.35±1.03	7.26±.90	12.55±.08	7.31±.64	7.78±.41

Table H7. continued

Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
5	surface	7.13	6.18	13.49	7.47	7.48
	3	7.07	5.88	13.44	7.46	7.24
	6	7.01	5.81	13.40	7.32	7.21
	9	7.03	5.81	13.03		7.20
D.O. Mean		7.06±.05	5.92±.15	13.34±.18	7.42±.07	7.28±.11
Loc						
6	surface	8.87	9.3	11.79	8.57	9.02
	6	8.84	9.1	11.92	8.72	8.73
	12	8.59	9.1	11.85	8.49	8.65
	18	8.52	9.1	11.86	8.26	8.57
	24	8.46	9.0	11.90	8.30	8.55
	30	8.45	9.0	11.72	8.24	8.54
	36				8.19	8.50
	42					8.50
	48					8.57
	54					8.63
	60					8.77
	63					8.66
	D. O. Mean		8.62±.17	9.10±.10	11.84±.07	8.39±.18
Loc						
7	surface	7.16	9.11	12.83	8.16	8.87
	6	7.22	8.95	13.31	8.12	8.50
	12	7.19	8.88	12.43	8.10	8.44
	18	7.28	8.85	12.32	8.00	8.41
	24	7.29	8.83	12.21	7.74	8.36
	30	7.24	8.81	12.02	7.60	8.34
	36			12.01	7.57	8.33
	42			12.27	7.46	8.33
	48			12.22	7.46	8.30
	54			12.38		8.29
	60					8.25
	63					8.26
	Mean pH value		7.23±.05	8.90±.10	12.40±.37	7.80±.28
Loc						
8	surface	7.21	8.94	12.79	8.15	8.77
	6	7.18	8.78	13.66	8.15	8.50
	12	7.18	8.67	12.85	8.02	8.42
	18	7.09	8.69	12.38	7.54	8.38
	24	6.72	8.67	12.22	7.60	8.32
	30	6.42	8.61	12.19	7.08	8.30
	36			12.20	6.62	8.29
	42			12.24		8.44
	48			12.36		8.35
	51			12.38		8.35
	Mean pH value		6.97±.30	8.73±.11	15.53±.44	7.59±.54

Table H7. continued

Loc	Depth (m)	Aug 1988	Oct 1988	May 1989	Aug 1989	Oct 1989
9	surface	7.30	7.91	12.23	8.32	8.48
	6	7.35	7.88	12.11	8.34	8.30
	12	7.33	7.80	11.86	8.14	8.30
	18	7.31	7.72	11.84	7.80	8.21
	24	7.32	7.72	11.85	7.73	8.33
	30		7.69	11.84	7.64	8.21
	36			11.82	7.55	8.21
	42			11.82	7.62	8.20
	48			11.85		8.24
	Mean pH value		7.32±.02	7.65±.30	11.91±.14	7.89f. 30