SKAGIT RIVER
HYDROELECTRIC PROJECT

FERC No. 553

ROSS LAKE LEVELS ANALYSIS

VOLUME II
Appendices A–D

SKX
1991
#10
2 of 2

City of Seattle
City Light Department

JUNE 1991

SKAGIT RIVER HYDROELECTRIC PROJECT

FERC No. 553

Ross Lake Levels Analysis

Volume II
Appendices A–D

Prepared by

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Submitted to

Seattle City Light

June 1991

APPENDICES

SKAGIT RIVER PROJECT
ROSS LAKE LEVELS ANALYSIS

TABLE OF CONTENTS

APPENDIX A - SUPPLEMENTAL RECREATION DATA

APPENDIX B - HYDROLOGIC DATA

APPENDIX C - SIMULATION MODEL RESULTS

APPENDIX D - POWER GENERATION COST PROJECTIONS

APPENDIX A

SUPPLEMENTAL RECREATION DATA

Table A-1. Comparison of seasonal use distribution for two western Washington hydropower reservoirs (Ross Lake and Lake Cushman).

	PERCENTAGE OF ANNUAL USE BY PERIOD					
Period	Total Ross (1) On-Lake Use	Hozomeen (1) Car Campers	Ross Boat (1) Campers	Cushman (2) SP Total	Cushman (2) Overnight	Cushman (2) Day Use
Nov-Apr	1.5	1.2	0	15	2	15
May	1.0	0.3	1.1	11	9	12
Jun	17.9	22.9	18.6	13	14	13
Jul	31.6	31.2	32.6	24	27	23
Aug	30.6	25.2	38.9	25	35	23
Sep	11.8	12.9	8.5	10	10	10
Oct	5.7	6.3	0.4	3	2	3
TOTAL	100	100	100	100	100	100
Jul-Aug	62.2	56.4	71.5	49	62	46
Jun-Sep	91.9	92.2	98.6	72	86	69

(1) Calculated from Table 2-10.

(2) Calculated from WSPRC (1984-1988) monthly attendance reports.

Table A-2. Comparison of seasonal use distribution for Ross Lake and selected western Washington state parks. (1)

		PERCENTAGE OF ANNUAL USE BY PERIOD			
	Total Ross (2)	State Park Overnight Use: (3)			
Period	On-lake Use	Ike Kinswa	Moran	Seaquest	Wenberg
Nov-Apr	1.5	8	4	7	9
May	1.0	7	6	8	8
Jun	17.9	16	13	11	14
Jul	31.6	26	29	25	26
Aug	30.6	32	36	30	30
Sep	11.8	9	10	13	10
Oct	5.7	3	1	4	3
TOTAL	100	100	100	100	100
Jul-Aug	62.2	58	65	55	56
Jun-Sep	91.9	83	88	79	80

(1) State parks included in this analysis are all on lakes that are not drafted seasonally for power generation.

(2) Calculated from Table 2-10.

(3) Calculated from WSPRC (1984-1988) monthly attendance reports.

Table A-3. Comparison of seasonal use distribution for Ross Lake and Cascade east-slope state parks.

		PERCENTAGE OF ANNUAL USE BY PERIOD			
		State Park Overnight Use: (1)			
Period	Total Ross On-lake Use (1)	Lake Chelan	Lake Easton	Lake Wenatchee	25-Mile Creek
Nov-Apr	1.5	1	1	1	0
May	1.0	6	8	9	6
Jun	17.9	18	16	13	12
Jul	31.6	31	28	27	33
Aug	30.6	33	30	37	39
Sep	11.8	11	13	10	10
Oct	5.7	1	4	2	0
TOTAL	100	100	100	100	100
Jul-Aug	62.2	64	58	64	72
Jun-Sep	91.9	93	87	87	94

(1) Calculated from Table 2-10.

Table A-4. Comparison of seasonal use distribution for Ross Lake and state parks in popular April fishing areas.

	PERCENTAGE OF ANNUAL USE BY PERIOD				
		State Park Overnight Use: (2)			
Period	Total Ross (1) On-lake Use	Conconully	Curlew	Pearrygin L.	Potholes
Nov-Apr	1.5	5	2	6	14 (10 in April)
May	1.0	17	9	12	11
Jun	17.9	16	20	16	14
Jul	31.6	23	27	24	18
Aug	30.6	25	24	25	19
Sep	11.8	11	11	10	14
Oct	5.7	4	7	6	9
TOTAL	100	100	100	100	100
Jul-Aug	62.2	48	51	49	37
Jun-Sep	91.9	75	82	75	65

(1) Calculated from Table 2-10.

(2) Calculated from WSPRC (1984-1988) monthly attendance reports.

Table A-5. Comparison of seasonal use distribution for Ross Lake and state parks in Columbia/Okanogan Basin Area.

	PERCENTAGE OF ANNUAL USE BY PERIOD									
	Total Ross (1)	State Park Overnight Use: (2)								
Period	On-Lake Use	Alta Lake	Banks Lake	Bridge-port	Lake Osoyoos	Lincoln Rock	Potholes	Steamboat Rock	Sun Lakes	Wanapum
Nov-Apr	1.5	4	1	1	2	6	14	5	6	9
May	1.0	14	28	11	8	9	11	9	13	11
Jun	17.9	16	22	14	12	15	14	17	15	16
Jul	31.6	30	30	26	31	25	18	27	27	20
Aug	30.6	27	14	28	34	25	19	30	28	23
Sep	11.8	8	4	15	11	15	14	10	8	14
Oct	5.7	2	1	5	2	6	9	3	2	8
TOTAL	100	100	100	100	100	100	100	100	100	100
Jul-Aug	62.2	57	44	54	65	50	37	57	55	43
Jun-Sep	91.9	81	70	83	88	80	65	84	78	73

(1) Calculated from Table 2-10.

(2) Calculated from WSPRC (1984-1988) monthly attendance reports.

Table A-6. Calculation of maximum hypothetical use level with early refill, by user group.

Period	Current Average Use	Maximum Average Use with Early Refill
HOZOMEEN CAR CAMPER		
Nov - Apr	206	206
May	43	3870
Jun	3870	5392
Jul	5392	5392
Aug	4258	4258
Sep	2183	2183
Oct	1066	1066
Total	17,018	22,367 (31.4% increase)
HOZOMEEN DAY USERS		
Nov - Apr	275	275
May	52	1038
Jun	1038	2811
Jul	2811	2811
Aug	2727	2727
Sep	361	361
Oct	498	498
Total	7,763	10,521 (35.5% increase)

Table A-6. Calculation of maximum hypothetical use level with early refill, by user group (continued).

Period	Current Average Use	Maximum Average Use with Early Refill
BOAT CAMPER		
Nov - Apr	0	0
May	85	1422
Jun	1422	2501
Jul	2501	2501
Aug	2981	2981
Sep	649	649
Oct	28	28
Total	7,666	10,082 (31.5% increase)
BACKCOUNTRY HIKERS		
Nov - Apr	0	0
May	148	285
Jun	285	523
Jul	523	523
Aug	649	649
Sep	194	194
Oct	18	18
Total	1,816	2,192 (20.7% increase)

Table A-6. Calculation of maximum hypothetical use level with early refill, by user group (continued).

Period	Current Average Use	Maximum Average Use with Early Refill
RESORT GUESTS		
Nov - Apr	99	99
May	0	442
Jun	442	1328
Jul	1328	1328
Aug	1393	1393
Sep	1257	1257
Oct	791	791
Total	5,309	6,638 (25.0% increase)

1/ For this increase to materialize, Ross Lake Resort would need to attract a new, non-fishing clientele for the May-June period.

DAY HIKERS		
Nov - Apr	31	31
May	96	460
Jun	460	778
Jul	778	778
Aug	880	880
Sep	314	314
Oct	16	16
Total	2,575	3,527 (37.0% increase)

Table A-7. Calculation of realistic hypothetical use level with early refill, by user group.

1. Hozomeen Car Campers

- Compare to seasonal pattern for Colonial Creek

  Monthly use ratios:

	Hozomeen	Colonial
May	0.3	3.9
June	22.9	13.1
July	31.2	27.0
May/July	0.0096	0.1444
June/July	0.7340	0.4852

- Ratios indicate May user share at Hozomeen could increase but June not likely to; potential early-season use already shifted to June

- Colonial ratio not directly applicable to Hozomeen, as May Hozomeen users still cannot fish. Assume Hozomeen May/July ratio with early refill rises to 0.07

- Current average Hozomeen car campers use in May is 43, July 5,392; increase May to 0.07 x 5,392 = 377

  377 - 43 = 334 increase

- Resulting annual use level is 17,018 + 334 = 17,352

Table A-7. Calculation of realistic hypothetical use level with early refill, by user group (continued).

2. HOZOMEEN DAY USERS

- Compare to seasonal pattern for NPS Skagit District

  Monthly use ratios:

	Hozomeen	Skagit Dist.
May	0.7	4.1
June	13.4	12.1
July	36.2	27.1
May/July	0.0193	0.1513
June/July	0.3702	0.4465

- Following approach for Hozomeen car campers, increase May/July ratio to 0.07, June/July ratio to 0.41

- Current average Hozomeen day use is 52 in May, 1,038 in June, 2,811 in July.
  Increase May to 0.07 x 2,811 = 197 (+ 145)
  Increase June to 0.41 x 2,811 = 1,153 (+ 115)

- Current average Hozomeen car campers use in May is 43, July 5,392; increase May to 0.07 x 5,392 = 377

  377 - 43 = 334 increase

- Resulting annual use level is 7,763 + 145 + 115 = 8,023

Table A-7. Calculation of realistic hypothetical use level with early refill, by user group (continued).

3. BOAT CAMPERS

- Compare to seasonal pattern for Colonial Creek

  Monthly use ratios:

	Hozomeen	Colonial
May	1.3	3.9
June	18.6	13.1
July	30.7	27.0
May/July	0.0423	0.1444
June/July	0.6059	0.4852

- Following approach for Hozomeen use, increase boat camp ratio to 0.10 for May/July

- Current average boat camp use is 85 in May, 1,422 in June, 2,501 in July
  Increase May to 0.10 x 2,501 = 250 (+165)

- Resulting annual use level is 7,666 + 165 = 7,831

Table A-7. Calculation of realistic hypothetical use level with early refill, by user group (continued).

4. BACKCOUNTRY HIKERS

- No relevant comparison available; Ross use component already has much higher May, June proportions than other NPS Skagit or Stehekin backcountry use

- Existing Ross monthly use ratios:

May/July	8.1/28.8 = 0.2813
June/July	15.7/28.8 = 0.5451

- Assume monthly use ratios with early refill rose to 0.5 for May/July, 0.75 for June/July
  Increase May to 0.5 x 523 = 262 (+114)
  Increase June to 0.75 x 523 = 392 (+ 107)

- Resulting annual use level is 1,816+ 114 + 107 = 2,037

Table A-7. Calculation of realistic hypothetical use level with early refill, by user group (continued).

5. DAY HIKERS

- Compare to NPS Skagit District day use

Monthly use ratios:

	Hozomeen	Skagit Dist.
May	3.7	4.1
June	17.9	12.1
July	30.2	27.1
May/July	0.1225	0.1513
June/July	0.5927	0.4465

- Increase May/July ratio for Ross to 0.15

- Current average Ross use is 96 in May, 778 in July
  Increase May to 0.15 x 778 = 117 (+ 21)

- Resulting annual use level is 2,575 + 21 = 2,596

Table A-8. Selection of user-Day values for Ross Lake user groups.

Approach:

For each user group, select most appropriate activity day value study reviewed in Sorg & Loomis (1984) [1], escalate from 1982 to 1989 by multiplying by 1.45

User Group	Discussion	Value
1. Hozomeen Car Campers	Use Brown & Plummer (1979) for WA. S&L adjusted value = $11.40 x 1.45 = 16.53	$16.50
2. Hozomeen Day Users	Assume composite of motorized and nonmotorized boating and picnicking. (By intuition), should be lower than Hozomeen car campers, so ignore fishing.) Motor boating use Sutherland (1980) = 6.28 x 1.45 = 9.106. Nonmotor boating use Sutherland again, same figure 9.106 Picnicking use Walsh et al. (1980) = 12.41 x 1.45 = 17.99. Sum = 36.21/3 = 12.07	$12.00
3. Boat Campers	Assume noticeably higher than for car campers; raise Brown & Plummer $11.40 to $15 x 1.45 = 21.75.	$21.75

(1) Sorg, Cindy F. and John B. Loomis. 1984. Empirical estimates of amenity forest values: a comparative review. General Technical Report RM-107. U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. Fort Collins, Colorado.

Table A-8. Selection of user-Day values for Ross Lake user groups (continued).

User Group	Discussion	Value
4. Backcountry Hikers	Use Brown & Plummer (1979) for WA, $18.20 x 1.45 = 26.39	$26.50
5. Horse Riders	Use backcountry hiker figure	$26.50
6. Resort Guests	Base on subjective composite of coldwater fishing (54.75) and typical lodging cost. Assume average unit is $60/night; @ 2 people/unit = $30/night. Raise to $40 to reflect fishing value	$40.00
7. Day Hikers	Given nature of day hiking at Ross (primarily down to dam) value at 0.25 of backpacking = .25 x 26.50 = 6.63	$6.75
8. SR 20 Motorists	Nothing applicable in Sorg & Loomis. Use 1986 RPA (FS, 1986) [1] value of $7.00 for motorized travel in R6 x 1.2 = 8.40	$8.50

(1) FS (Forest Service). 1986. Final environmental impact statement: 1985-2030. Resources Planning Act program. FS-403. U.S. Department of Agriculture, Forest Service. Washington, DC.

Appendix B

HYDROLOGIC DATA

ROSS LAKE INFLOWS (CFS)

	YEAR	JUL1	JUL2	AUG1	AUG2	SEP	OCT	NOV	DEC	JAN	FEB	MAR1	MAR2	APR1	APR2	MAY1	MAY2	JUN1	JUN2
1928	1929	3902.0	2925.6	1699.4	1214.2	1019.7	2070.5	1149.9	969.6	612.1	485.3	594.3	1212.1	1076.8	2295.5	5288.1	8742.5	8701.4	5990.7
1929	1930	3794.0	2370.6	1796.8	1349.9	881.4	810.3	491.0	585.5	493.6	2272.0	1350.0	2241.0	5471.5	6935.5	5296.1	5952.5	7452.0	5727.4
1930	1931	4649.3	2777.5	1979.4	1319.2	1126.3	977.9	1000.5	715.8	1462.5	1897.2	1745.1	2488.6	2313.1	3328.6	9628.6	6606.2	6871.2	4339.1
1931	1932	2992.8	2093.4	1439.8	1128.5	1469.1	968.1	1834.6	1322.4	1334.5	3379.7	4037.4	2877.1	3817.3	4833.3	9352.7	7111.0	9642.8	9071.5
1932	1933	4593.8	3068.0	2116.1	1811.9	1086.8	1450.8	4812.7	3059.1	1614.2	922.9	1100.5	1395.4	2093.8	4803.1	5587.2	7215.4	11967.0	13123.7
1933	1934	10822.5	7481.8	4355.9	2829.9	1979.2	4256.8	4317.8	4230.4	3947.7	2925.3	3974.8	5289.3	7297.8	12942.3	8891.5	9839.9	8046.4	4907.6
1934	1935	3654.0	3308.9	2054.1	1811.2	1220.6	1297.2	4473.8	2480.9	4056.8	4701.0	1918.6	1759.3	1415.6	2607.4	4933.0	8069.5	9787.1	6754.7
1935	1936	5347.1	4643.8	2376.5	1718.5	1681.9	977.6	701.3	829.0	838.4	554.1	1057.9	1059.4	1751.7	8864.7	9186.9	10125.0	8731.8	4903.0
1936	1937	2910.3	1998.3	1580.7	1202.7	968.7	728.9	489.9	1008.9	596.9	439.4	1040.8	1401.5	1922.6	2599.5	5812.2	7902.7	12898.8	10586.7
1937	1938	6098.3	3331.3	1924.9	1415.9	1143.3	1590.9	2647.0	2541.3	2003.8	997.7	1812.0	1902.4	2049.2	5910.2	6063.8	12175.5	10116.8	9164.8
1938	1939	4814.1	3213.5	1592.1	1268.2	1084.4	958.9	935.2	1551.1	2339.8	933.7	761.2	2437.5	3469.2	5546.5	7359.5	8848.7	6282.8	6300.2
1939	1940	5105.0	3593.5	2166.1	1427.3	963.1	1113.5	1561.9	3849.8	1790.8	1605.3	1952.4	2808.7	3026.9	4119.4	5733.1	7071.8	5108.7	3417.9
1940	1941	2163.7	1643.8	1176.0	1027.9	906.2	2305.8	1222.5	1658.1	1323.9	1388.5	1507.9	1752.6	3244.1	3592.6	3949.4	3824.8	4066.5	2644.4
1941	1942	1967.4	1539.8	1084.8	994.0	1369.4	3025.7	2687.6	3615.1	1164.4	874.3	849.7	851.2	2389.6	3464.3	3186.6	7176.8	6761.3	4580.4
1942	1943	3761.7	2285.2	1613.7	1138.7	712.4	602.5	1000.3	1666.0	1299.8	1210.0	1525.5	1700.6	4794.4	7070.3	3996.0	8198.6	9691.1	9624.9
1943	1944	9673.4	5872.1	3046.5	1889.0	1177.9	925.5	777.9	1173.8	853.6	757.9	840.3	877.8	1807.4	2332.5	4504.1	5621.7	6138.9	4556.4
1944	1945	2387.3	1869.2	1365.8	1020.3	1262.4	1118.1	1141.2	1486.8	1756.7	2034.3	1094.8	1354.7	1269.4	1931.7	6951.4	8301.4	7918.1	6548.4
1945	1946	4571.4	2325.0	1630.1	1150.3	1105.9	2032.2	2339.0	1523.7	1387.0	1130.6	1838.9	1774.8	2223.0	5146.8	10285.1	13282.5	9476.7	7998.1
1946	1947	5982.7	4281.9	2230.0	1801.1	1188.4	1023.5	889.0	2033.4	1345.3	2303.6	1732.5	3854.7	3184.0	5870.2	9663.0	9428.4	7817.9	5679.5
1947	1948	4038.1	2781.7	1731.5	1210.1	981.1	2363.1	1842.1	2134.4	1792.4	1186.0	1011.9	1176.4	1371.7	4161.2	3957.9	14161.5	17975.8	9559.4
1948	1949	4288.2	3453.4	2458.3	2388.6	1696.7	2059.8	1501.4	1286.5	872.2	1010.2	1569.3	2135.7	3425.3	6113.3	12114.6	11800.6	10380.8	5786.8
1949	1950	4900.6	3489.2	2449.3	1513.6	1568.2	1574.0	5209.3	3775.2	1511.3	1425.3	2586.9	1824.3	2108.7	3333.2	5380.9	8955.0	14113.1	17862.9
1950	1951	10638.9	5948.0	3055.8	2603.7	1323.4	2492.4	4195.5	5709.6	2511.7	4212.1	1615.9	1706.5	4269.2	5079.2	8642.1	10286.7	8950.3	9137.8
1951	1952	6377.3	3722.3	2177.0	1605.1	1296.4	1362.2	1385.6	1217.4	624.1	1311.4	934.3	1093.7	2247.3	5725.0	6206.0	10330.2	7414.6	5214.7
1952	1953	4444.4	2701.7	1930.1	1095.9	909.3	626.0	539.0	607.0	2997.0	2775.0	1261.3	1487.3	1397.1	4275.1	7330.7	8939.4	9108.7	6777.3
1953	1954	8111.2	4125.3	2691.7	2016.3	1413.0	2262.0	2980.0	2816.0	1976.0	2615.0	2162.9	1632.1	2243.7	3456.3	6890.9	12225.1	9756.0	12248.1
1954	1955	13562.4	8382.6	4952.1	3948.4	2452.0	1862.0	4751.0	2719.0	1547.0	1238.0	930.9	952.4	2520.5	1871.5	3082.5	6929.5	13625.1	11422.9
1955	1956	8506.4	6103.1	3219.5	2011.5	1422.0	3474.0	5141.0	2029.0	1271.0	882.0	865.0	1300.9	2424.1	7549.9	6884.1	16662.6	13127.5	9664.5
1956	1957	8285.1	5330.3	2632.1	2310.1	1734.0	3343.0	2611.0	3468.0	1372.0	1411.0	1979.9	1718.5	2474.7	3687.3	13169.5	10432.8	9432.9	4527.0
1957	1958	3133.4	2485.4	1735.1	1299.1	1059.0	926.0	1007.0	1262.0	1730.0	1973.0	1831.8	1527.8	1881.5	2834.5	6410.2	13710.1	7160.3	4821.6
1958	1959	2785.4	2180.2	1398.7	1345.0	1308.0	2344.0	3029.0	4769.0	3102.0	1588.0	1639.9	1822.3	3464.1	4951.9	7216.1	8853.2	11830.3	11813.7
1959	1960	7599.1	5667.1	2579.3	1881.3	2772.0	3869.0	4246.0	2948.0	1409.0	1879.0	1089.9	2864.9	5504.2	3121.9	7227.5	5265.6	11066.3	7661.7
1960	1961	6035.6	3750.1	2370.7	1617.7	1230.0	1330.0	1804.0	1541.0	3326.0	3395.0	2162.9	2343.4	3078.3	2877.9	4610.1	11863.7	15370.1	10223.7
1961	1962	4853.5	3135.9	1981.2	1647.7	1150.0	1567.0	1378.0	1436.0	2983.0	2820.0	1133.1	1154.3	2331.3	4324.9	2973.6	6161.5	6586.2	7951.6
1962	1963	4124.5	3296.3	2298.6	1584.4	1239.0	1461.0	3181.0	4068.0	2244.0	4367.0	2395.3	1788.4	1956.3	2279.7	2599.1	9139.8	7221.8	5870.3
1963	1964	4098.1	2923.9	2453.7	1733.6	1554.0	2252.0	3384.0	3141.0	2993.0	1553.0	1456.1	1487.2	2578.2	2391.8	3125.6	8216.1	16156.9	10609.1
1964	1965	10896.5	5807.6	3317.7	2390.2	1835.0	2298.0	1646.0	1779.0	1673.0	2692.0	2532.6	2018.0	1846.1	5167.9	5243.9	8472.1	10296.5	7011.7
1965	1966	5534.1	3261.1	2542.1	1842.3	1061.0	1414.0	2158.0	2008.0	1307.0	894.0	1109.9	1991.7	5194.3	3017.9	8166.1	6474.5	7424.4	6875.7
1966	1967	5595.6	3829.3	2350.1	1516.9	1214.0	1687.0	1775.0	3990.0	2183.0	2050.0	1239.5	1666.7	1552.4	1575.4	4536.3	9844.8	13554.3	17487.8
1967	1968	7333.9	3999.6	2471.1	1703.9	1232.0	3070.0	3634.0	2868.0	4432.0	3990.0	4997.8	2727.4	2132.4	2089.6	4582.8	9023.9	11525.6	9106.4
1968	1969	7657.7	3928.6	2316.9	1772.6	1744.0	1357.0	2286.0	1825.0	1489.0	885.0	759.8	1825.8	3454.5	4511.5	8757.4	12222.8	12038.3	5359.7
1969	1970	3383.9	2151.8	1451.3	1204.7	1575.0	1437.0	1641.0	1354.0	1254.0	1629.0	1602.3	1440.9	2374.6	1521.4	3370.1	8207.8	10649.0	7283.0
1970	1971	3239.6	2196.1	1461.4	1202.9	1043.0	805.0	1050.0	1136.0	1814.0	3893.0	1818.4	1577.4	2111.0	3321.0	12203.7	10509.0	10617.9	9876.1
1971	1972	6536.7	9063.8	3880.0	1967.7	1340.0	1300.0	1613.0	1135.0	1314.0	1885.0	4612.2	5320.9	3837.6	2628.4	7616.4	15642.6	19125.1	12322.9
1972	1973	11684.3	7407.7	4528.9	2814.4	1870.0	1350.0	944.0	2068.0	1631.0	974.0	1255.6	1049.0	1448.5	2165.5	4106.8	8220.5	5572.1	5493.9
1973	1974	3288.5	2663.7	1843.4	1003.7	874.0	1199.0	1900.0	2452.0	4237.0	1820.0	1275.3	2975.9	2732.6	3893.4	6545.0	6705.8	13260.2	18203.8
1974	1975	10341.8	8023.0	4946.8	2750.1	1531.0	809.0	1437.0	1753.0	1673.0	1064.0	1408.0	1136.7	1103.8	2152.2	5737.1	7399.2	12830.7	8813.3
1975	1976	10049.9	3733.8	2132.4	1953.4	1162.0	1828.0	4651.0	6250.0	3049.0	2352.0	1247.8	1472.9	2875.4	2916.6	9939.3	9183.1	7615.4	11244.6
1976	1977	10068.3	7981.1	5503.4	3464.4	2345.0	1094.0	1095.0	1239.0	1306.0	1531.0	1522.7	1199.7	2165.8	4152.2	4341.5	3400.8	5941.7	4126.3
1977	1978	1901.4	1941.3	1824.5	1408.9	916.0	720.0	2336.0	3849.0	1304.0	1294.0	1369.7	3765.0	3200.7	3151.3	4785.2	6015.1	10216.6	6641.4
1978	1979	5461.7	3437.5	2220.0	1664.1	2204.2	1209.7	2400.0	973.4	613.7	822.3	2505.0	2450.0	1798.3	2910.0	6730.0	7556.3	6623.3	4116.7
1979	1980	3023.3	2351.6	1530.0	1470.3	1220.0	933.9	660.8	4454.0	1374.2	1729.3	2561.7	1500.0	1645.0	7183.3	10210.0	7318.8	6706.7	5976.7
1980	1981	3880.0	2881.3	1828.3	1339.1	1275.0	902.4	2705.8	6982.3	3261.3	3016.1	1823.3	1587.5	1368.3	3083.3	4235.0	7106.3	5993.3	5603.3
1981	1982	4745.0	3900.0	2523.3	1564.1	1195.0	1560.5	1682.5	1657.3	1178.2	2418.8	1846.7	1467.2	1418.3	2365.0	4080.0	9610.9	12098.3	15243.3
1982	1983	7908.3	4782.8	3056.7	2003.1	1555.8	1575.0	1178.3	2097.6	2540.3	2156.3	3068.3	2279.7	1825.0	3860.0	4698.3	10910.9	8816.7	5710.0
1983	1984	5923.3	4371.9	3066.7	1729.7	1290.8	837.1	3106.7	1014.5	4783.1	1970.7	1738.3	2229.7	1700.0	2155.0	2560.0	5045.3	7841.7	10573.3
1984	1985	6178.3	4356.3	2861.7	1698.4	1280.8	1324.7	1610.8	1036.3	729.3	689.0	615.0	895.8	3795.0	4245.0	3785.0	11634.4	9563.3	6261.7
1985	1986	4063.3	2668.8	1628.3	1140.6	1015.8	2071.8	2681.7	827.4	2328.2	3042.9	5168.3	3264.1	3221.7	3460.0	3010.0	10470.3	10833.3	5275.0
1986	1987	3655.0	2662.5	2138.3	1362.5	945.8	1012.9	2286.7	1346.8	1793.6	1547.3	3665.0	2198.4	3303.3	5126.7	12831.7	6306.3	6688.3	4615.0
1987	1988	3383.3	2064.1	1486.7	1100.0	964.2													

ACCRETION FROM ROSS TO DIABLO (CFS)

YEAR	JUL1	JUL2	AUG1	AUG2	SEP	OCT	NOV	DEC	JAN	FEB	MAR 1	MAR 2	APR 1	APR 2	MAY 1	MAY 2	JUN 1	JUN 2
1928 1929	1334.7	1501.0	1009.6	797.3	593.0	800.5	266.7	194.6	93.2	68.6	114.1	243.9	173.3	385.3	799.9	1214.8	1429.1	1207.6
1929 1930	1137.9	1055.6	1110.5	824.8	482.9	252.2	73.9	146.4	107.9	558.3	224.7	609.7	696.7	792.3	623.6	652.2	899.1	902.0
1930 1931	1323.2	1044.1	1258.0	812.5	747.0	415.7	183.0	138.2	525.6	329.9	356.9	495.4	435.5	634.1	1251.2	946.9	1579.6	1372.1
1931 1932	1357.4	1316.8	880.6	847.6	773.5	232.6	433.7	205.1	209.2	701.4	715.0	415.1	711.6	1046.3	1063.6	921.6	1550.7	1833.8
1932 1933	1477.2	1327.3	1142.7	1131.6	531.1	496.3	1043.1	418.7	264.3	74.2	171.8	218.2	283.1	663.4	615.0	840.2	1419.7	1554.5
1933 1934	1836.9	1821.2	1556.6	1333.0	785.7	1163.0	939.3	964.1	653.3	534.1	700.0	885.1	1024.7	1861.3	1228.8	1664.1	1629.2	1164.8
1934 1935	1315.8	1623.5	1126.2	1325.3	628.0	473.9	871.2	456.7	971.7	681.4	330.9	298.2	205.1	418.9	697.0	1088.7	1676.7	1389.9
1935 1936	1221.0	1687.7	1115.3	1048.7	983.8	373.9	134.3	168.4	178.1	80.5	272.6	221.6	325.3	1597.3	1354.5	1830.3	1871.0	1573.1
1936 1937	1342.3	1335.1	1291.8	1010.0	696.1	408.8	121.8	278.0	74.2	75.6	247.6	258.5	345.1	407.6	792.1	937.0	1678.1	1773.6
1937 1938	1610.5	1424.1	1038.3	766.9	666.0	607.9	578.5	490.0	343.0	135.5	286.0	260.5	252.8	892.5	651.5	1335.4	1329.9	1877.2
1938 1939	1398.7	1553.6	818.3	845.5	843.4	403.5	214.8	325.1	446.6	164.2	117.7	416.9	455.4	735.7	874.6	1209.0	937.5	1179.3
1939 1940	1394.9	1435.5	1206.1	914.0	584.0	533.5	423.2	621.0	265.1	246.6	289.8	406.0	504.1	618.2	899.9	1236.8	1197.0	1218.9
1940 1941	1236.7	1080.0	954.3	986.7	851.9	1123.2	294.0	482.7	297.4	222.5	224.1	289.8	450.6	606.2	692.3	777.0	1114.9	970.8
1941 1942	1404.0	1413.3	1200.9	1086.4	731.9	678.9	484.2	561.9	171.1	174.1	168.8	156.1	390.4	493.5	476.9	1186.3	1297.5	1048.9
1942 1943	1647.1	1334.1	1338.3	971.4	648.4	334.2	350.5	446.7	360.7	245.8	251.3	454.1	824.1	914.3	490.1	1241.6	1257.8	1482.1
1943 1944	1832.1	1629.1	1216.3	863.4	725.6	447.4	207.2	344.0	216.0	205.4	233.3	244.1	361.5	433.4	751.0	903.2	1104.6	1242.1
1944 1945	973.7	1374.4	1009.4	787.1	929.6	563.0	330.9	365.2	478.8	433.0	202.1	275.0	218.2	366.2	997.8	1196.5	1118.0	1409.0
1945 1946	1550.8	989.1	1100.9	799.9	675.9	558.8	424.3	225.8	211.3	179.4	249.0	248.9	328.0	784.7	1333.1	1852.1	1552.3	1441.2
1946 1947	1622.9	1619.4	1182.6	986.6	553.9	386.9	191.4	333.1	228.3	357.1	231.2	525.3	466.5	1057.9	1473.6	1584.7	1438.3	1396.6
1947 1948	1376.2	1240.5	1017.2	770.1	649.1	948.2	364.8	351.6	215.7	153.7	140.0	164.7	179.2	609.6	580.5	2122.0	2958.8	2049.6
1948 1949	1275.7	1467.0	1271.3	1206.8	733.7	534.6	229.8	198.2	125.4	144.9	263.4	301.9	508.8	936.8	1749.8	1691.0	1841.0	1231.3
1949 1950	1569.4	1403.6	1363.9	901.1	882.9	533.3	1165.5	483.0	247.8	193.1	412.3	233.3	275.8	462.9	812.9	1260.1	1872.8	2713.0
1950 1951	2382.2	2062.9	1511.9	1505.7	857.3	713.9	755.5	895.5	307.9	746.2	192.2	227.7	644.8	711.4	1210.7	1400.1	1369.0	1764.7
1951 1952	1716.8	1568.2	1273.4	951.1	771.1	618.6	305.8	199.1	112.7	197.8	134.7	150.0	343.6	843.3	827.8	1441.7	1389.6	1241.3
1952 1953	1660.5	1383.4	1554.0	1029.5	706.1	469.1	149.4	172.1	580.5	459.6	180.4	209.0	197.5	640.1	986.0	1182.2	1288.5	1030.5
1953 1954	2097.0	1331.1	1381.4	1098.1	853.7	674.3	505.3	477.4	267.3	381.0	278.0	204.6	283.7	491.5	910.7	1514.6	1223.0	1722.1
1954 1955	2193.7	1753.3	1419.6	1412.5	938.2	462.3	1009.1	369.7	189.9	166.4	111.5	101.2	331.9	243.4	440.7	1023.2	1905.8	1718.0
1955 1956	1671.7	1886.7	1469.2	1040.1	755.5	984.7	928.1	316.7	167.0	111.3	94.0	131.7	295.3	934.6	816.5	2089.5	1900.9	1707.3
1956 1957	2100.9	2021.9	1210.1	1352.3	969.1	776.3	428.2	573.9	166.1	205.3	253.6	204.1	360.5	583.9	1843.9	1535.9	2108.2	1192.5
1957 1958	1229.4	1198.7	948.4	814.5	822.4	432.0	295.1	242.2	297.9	316.7	256.4	211.0	253.6	425.7	1037.7	2271.2	1661.8	1997.4
1958 1959	1611.3	1757.3	1247.5	1336.0	829.4	781.3	611.1	881.7	437.2	199.1	210.5	216.5	595.7	842.8	1004.1	1121.0	1701.2	1914.6
1959 1960	1774.2	2041.2	1231.6	1019.0	1097.8	1035.7	1005.1	438.8	200.0	257.5	132.2	361.7	731.5	404.8	1055.9	771.8	1946.8	1509.1
1960 1961	1822.0	1762.6	1433.6	794.9	652.8	592.2	427.7	334.7	584.6	617.2	326.6	368.0	458.9	420.1	600.1	1716.5	2584.1	2396.7
1961 1962	1885.1	1789.4	1554.8	1468.7	646.5	572.6	316.5	295.6	565.6	420.7	150.4	141.9	412.1	679.2	432.8	978.2	1157.9	1905.9
1962 1963	1197.3	1522.8	1452.6	1025.1	646.9	427.3	793.6	599.5	390.1	616.6	309.2	240.5	286.5	332.0	368.9	1427.5	1324.4	1307.0
1963 1964	1216.7	1091.6	1110.0	956.8	969.9	992.9	595.6	486.5	402.1	195.6	159.6	181.0	348.4	326.5	451.5	1139.9	2164.8	1510.1
1964 1965	2281.3	1586.6	1268.4	1020.8	664.0	601.1	324.4	348.7	259.5	380.5	318.7	244.1	245.1	814.3	722.8	1145.2	1584.0	1307.4
1965 1966	1660.3	1460.5	1686.6	1219.4	520.2	553.4	438.8	299.8	203.0	134.9	162.1	308.5	668.1	405.9	1098.6	874.8	1155.2	1344.9
1966 1967	1448.2	1322.6	1331.4	979.7	826.5	698.1	351.1	764.7	350.8	249.7	179.5	244.7	222.5	227.3	583.5	1278.3	1833.0	3036.9
1967 1968	2000.6	1566.6	1488.6	1290.7	1088.2	1097.2	631.4	437.7	711.7	578.0	673.8	329.8	291.1	306.7	672.1	1259.7	2052.6	1679.8
1968 1969	2167.0	1499.4	1271.0	963.3	925.9	407.4	511.6	305.6	355.8	116.8	94.1	251.0	448.5	659.6	1264.7	1889.1	2720.7	1691.7
1969 1970	1335.0	1206.8	867.6	836.3	982.2	403.7	315.8	202.9	199.4	239.2	214.9	203.3	315.3	233.4	516.3	1159.7	1845.8	1811.0
1970 1971	1459.6	1335.0	1060.9	930.0	668.4	289.0	265.1	221.6	421.2	633.6	236.7	218.4	293.7	423.6	1597.0	1379.2	1456.0	1583.5
1971 1972	1246.9	3001.9	2051.7	1239.6	628.8	445.3	329.8	176.3	200.5	389.6	900.3	829.1	567.1	374.0	1091.9	2030.3	2613.7	1774.8
1972 1973	2445.1	2010.1	1901.6	1386.4	735.3	355.4	223.2	391.6	291.2	159.8	218.1	168.6	227.0	338.0	657.3	1268.8	1054.7	1412.8
1973 1974	1171.3	1467.0	1496.4	635.3	675.1	424.4	376.0	409.5	605.0	238.5	154.5	450.5	359.1	434.0	850.0	936.3	1912.6	2627.5
1974 1975	1967.2	2218.5	1884.1	1272.8	797.0	290.3	338.1	341.1	281.4	165.7	224.4	148.7	168.8	297.3	898.4	1036.7	1854.2	1319.0
1975 1976	3146.2	1576.6	1096.9	1062.4	668.9	676.2	713.7	947.3	468.5	293.5	224.6	297.1	352.9	314.5	1277.7	1130.4	984.3	1563.0
1976 1977	1839.2	2100.3	1924.4	1310.2	892.2	367.4	297.3	257.7	327.7	259.8	213.2	176.5	323.9	624.2	592.4	524.7	1355.3	1379.1
1977 1978	872.2	1339.9	1885.2	1313.2	609.3	263.9	568.4	724.2	180.1	204.2	196.8	583.1	433.8	426.0	642.3	861.6	1778.5	1501.7
1978 1979	1623.8	1633.9	1539.1	956.8	942.4	435.0	617.7	247.1	156.4	190.8	579.1	411.5	252.0	466.4	839.3	1069.1	1129.3	903.4
1979 1980	1090.9	1367.4	1103.7	1111.3	836.2	424.6	185.3	1106.8	232.0	326.1	498.3	281.4	227.4	964.1	1191.5	933.6	1032.6	1241.6
1980 1981	1142.4	1326.6	1066.3	817.3	722.8	395.2	718.4	1166.1	428.0	498.7	270.8	234.4	249.1	686.9	657.5	1017.8	917.7	1146.5
1981 1982	1111.3	1360.7	1563.8	1034.1	757.4	490.8	365.5	339.0	299.5	549.4	350.1	270.7	244.8	385.7	545.3	1175.4	1296.4	2538.5
1982 1983	1573.8	1488.2	1373.1	1007.3	777.1	430.5	289.2	400.5	489.6	348.3	449.8	300.6	237.0	480.7	522.9	1491.0	1449.5	1154.2
1983 1984	1629.1	1040.7	1554.5	973.6	581.6	290.7	562.3	174.7	1007.6	286.7	232.4	355.6	243.4	313.1	332.7	721.6	966.1	1651.4
1984 1985	1166.1	1266.9	1299.8	806.7	465.8	411.2	291.8	162.7	139.8	134.3	155.3	198.6	591.6	631.1	514.1	1590.4	1565.2	1301.3
1985 1986	1445.6	1314.5	959.7	701.3	430.5	613.0	536.5	160.0	415.1	563.3	706.7	441.6	379.4	477.5	366.2	1624.7	1766.2	1149.6
1986 1987	1105.6	947.6	1299.2	976.8	501.9	349.5	560.4	245.8	322.8	241.0	671.2	333.4	391.4	791.9	1902.7	813.7	1318.8	1366.1
1987 1988	1309.4	1080.9	940.3	730.5	750.5													

ACCRETION FROM DIABLO TO GORGE (CFS)

YEAR	JUL1	JUL2	AUG1	AUG2	SEP	OCT	NOV	DEC	JAN	FEB	MAR 1	MAR 2	APR 1	APR 2	MAY 1	MAY 2	JUN 1	JUN 2
1928 1929	357.1	342.0	164.8	120.9	111.7	302.3	137.7	106.2	48.2	32.2	53.5	131.1	109.7	209.1	344.3	450.7	466.3	365.3
1929 1930	293.6	198.5	185.8	125.0	85.2	87.8	46.9	83.6	55.3	306.4	113.6	304.8	333.9	334.0	276.7	279.3	313.3	277.7
1930 1931	347.2	185.1	209.0	119.1	144.2	161.3	104.9	84.1	282.0	186.2	198.0	273.9	251.0	335.5	550.0	405.3	554.7	447.8
1931 1932	380.0	274.4	137.4	139.0	148.5	84.8	227.4	119.3	116.5	451.9	408.8	226.0	380.1	482.6	480.3	403.0	542.3	582.0
1932 1933	417.7	271.1	190.3	190.6	97.1	193.0	506.0	234.0	148.0	40.1	92.1	127.2	173.6	335.3	305.1	376.8	505.8	500.6
1933 1934	552.6	465.0	307.1	234.4	273.6	486.9	348.8	486.2	355.2	280.7	441.6	432.9	472.6	649.1	525.9	561.1	456.8	325.9
1934 1935	261.8	314.0	180.0	155.4	111.3	200.8	475.7	275.7	526.9	288.1	182.3	154.6	109.6	284.3	378.0	482.6	611.3	477.2
1935 1936	392.0	363.1	201.8	162.7	132.5	134.6	84.8	162.1	161.0	42.2	261.0	145.3	266.2	711.0	595.4	577.4	603.4	459.4
1936 1937	331.6	214.5	145.9	100.8	86.8	60.5	35.2	214.3	35.8	44.6	237.5	171.0	267.5	242.8	430.1	413.0	605.6	647.4
1937 1938	395.3	243.7	151.8	102.8	69.5	244.1	383.5	291.6	178.3	68.9	197.4	156.3	160.4	513.8	332.1	610.2	510.5	619.1
1938 1939	366.5	269.6	118.3	104.4	83.9	141.0	148.9	246.3	304.2	80.5	60.4	288.5	281.7	421.3	441.8	559.0	414.2	490.0
1939 1940	456.4	344.6	195.9	133.0	93.9	235.7	260.3	430.5	148.7	156.6	231.6	276.5	291.6	298.9	454.4	505.6	406.2	278.5
1940 1941	213.8	156.5	109.8	94.7	73.8	385.7	155.2	277.9	202.9	135.1	157.7	183.0	211.3	288.1	277.6	333.0	325.2	226.1
1941 1942	179.2	112.4	71.9	88.2	264.1	354.6	287.3	308.7	78.7	99.3	117.6	93.5	262.0	233.7	222.2	474.7	487.8	349.5
1942 1943	344.1	216.3	93.3	70.1	39.6	54.9	202.0	295.3	269.2	157.9	126.8	316.2	513.7	392.6	215.5	566.7	502.7	610.5
1943 1944	687.6	519.3	297.6	157.6	92.0	146.2	122.7	218.6	177.6	131.0	197.6	148.9	214.7	224.6	369.8	346.7	383.6	290.9
1944 1945	173.7	151.7	117.4	79.2	222.7	169.5	206.4	199.9	297.4	275.3	91.9	187.2	130.0	283.7	582.3	569.5	394.5	528.8
1945 1946	438.1	208.9	155.3	87.1	171.6	308.3	198.2	144.0	162.4	132.0	178.4	149.5	208.3	446.2	684.6	819.0	651.1	571.0
1946 1947	533.7	465.1	300.0	223.9	131.0	162.5	123.0	219.7	165.4	244.7	127.7	311.6	253.1	472.1	608.6	606.5	504.9	526.7
1947 1948	448.0	307.6	200.4	131.2	133.7	408.9	172.2	240.0	110.3	89.5	75.4	109.9	110.1	384.4	356.4	893.7	1077.2	652.0
1948 1949	379.1	347.4	240.9	303.4	217.1	216.4	145.9	81.8	67.5	88.2	162.7	181.0	297.8	505.6	838.0	752.8	762.2	442.4
1949 1950	550.5	453.4	323.9	169.9	216.2	245.6	587.5	173.2	136.8	151.0	273.9	149.7	176.3	269.1	460.6	591.5	771.6	943.7
1950 1951	737.5	558.6	399.1	300.3	160.3	347.5	463.9	526.4	167.7	443.5	73.3	109.3	361.3	326.6	547.5	594.7	554.1	640.5
1951 1952	487.5	333.6	218.6	156.0	167.4	312.8	164.0	105.6	61.9	155.3	74.9	100.5	244.8	455.3	414.9	650.9	576.0	530.4
1952 1953	537.3	330.0	241.4	132.3	93.6	68.7	69.8	102.3	537.1	239.6	95.0	119.8	109.6	433.8	500.5	521.9	547.1	408.1
1953 1954	709.7	347.5	310.7	214.3	273.6	327.5	308.0	268.5	133.1	241.6	150.3	97.8	213.3	265.6	479.1	732.8	529.0	804.4
1954 1955	922.2	664.8	481.7	418.2	310.3	262.7	579.1	175.4	85.2	96.5	48.6	47.7	254.6	126.5	288.5	566.7	825.5	694.2
1955 1956	664.6	636.6	397.5	211.7	152.8	497.4	395.9	188.8	85.8	47.8	46.0	94.4	223.7	511.7	461.9	979.4	788.9	638.0
1956 1957	760.3	548.5	292.1	268.6	287.5	428.6	221.6	345.1	75.2	142.8	165.7	131.9	273.6	369.4	801.1	591.5	689.7	385.2
1957 1958	372.8	310.8	226.8	161.0	146.5	151.9	134.8	174.2	229.5	233.4	115.3	130.5	164.2	262.8	493.0	837.0	581.1	540.9
1958 1959	313.0	234.5	132.6	138.9	198.2	315.1	349.1	488.6	259.9	86.4	143.3	145.4	428.3	543.4	489.6	502.0	736.1	754.2
1959 1960	678.3	577.0	272.1	267.5	459.5	452.6	434.8	206.8	120.1	161.1	56.0	266.3	447.2	204.5	549.6	369.7	787.9	623.4
1960 1961	580.8	384.2	230.4	185.0	145.9	298.9	280.3	224.8	388.0	376.3	156.0	213.0	288.1	259.5	312.6	824.6	1007.2	789.1
1961 1962	576.2	369.4	222.8	200.7	137.3	300.0	200.8	227.6	314.1	256.8	59.9	74.5	291.5	381.3	272.7	512.4	547.2	737.2
1962 1963	464.5	458.0	361.6	254.6	207.2	228.6	406.0	358.4	186.8	398.8	146.9	132.5	197.6	172.7	210.1	597.6	507.1	432.3
1963 1964	377.7	295.6	252.6	158.7	165.5	286.4	346.8	294.6	220.5	127.3	95.7	116.0	253.6	200.7	290.2	635.0	853.6	581.4
1964 1965	788.1	626.0	443.0	391.7	271.2	287.2	208.7	195.2	155.3	238.6	202.0	111.4	137.7	513.0	345.5	555.7	632.8	480.4
1965 1966	524.5	343.2	322.8	206.1	115.4	261.6	291.6	213.1	145.4	80.1	116.4	243.7	411.8	206.2	586.5	408.0	535.8	569.2
1966 1967	579.7	399.2	295.3	180.2	139.8	324.2	194.5	496.0	209.8	139.2	86.1	167.6	126.8	135.7	369.6	671.5	827.5	1043.7
1967 1968	657.2	428.9	313.4	212.7	161.1	587.1	256.2	263.8	398.4	382.4	365.6	184.0	169.1	206.2	359.3	562.7	789.7	608.1
1968 1969	657.4	375.5	237.0	227.9	266.8	222.4	339.5	156.3	164.0	47.2	43.2	178.1	273.0	357.3	638.8	767.4	898.2	448.0
1969 1970	401.0	235.5	166.4	140.5	286.7	183.0	182.7	139.8	144.9	165.9	128.8	133.7	251.6	125.3	281.8	493.8	656.7	559.9
1970 1971	376.6	286.5	172.6	115.9	181.4	119.0	216.2	139.6	294.3	333.4	101.9	137.1	201.2	294.0	855.9	661.9	634.6	663.8
1971 1972	554.0	971.3	499.2	263.8	177.0	198.8	235.6	90.1	140.1	283.8	558.9	432.9	332.6	188.7	596.7	931.5	935.9	688.7
1972 1973	903.1	646.2	499.9	332.2	272.9	131.5	132.7	303.7	154.1	86.9	129.9	91.3	143.1	216.0	397.8	549.7	476.8	526.6
1973 1974	377.3	376.2	298.4	131.6	143.2	253.8	241.8	276.1	427.0	129.5	99.5	367.0	230.1	263.1	486.2	531.0	913.1	976.4
1974 1975	722.9	774.6	540.2	348.2	208.6	88.8	272.3	265.8	153.4	80.5	161.2	78.5	97.4	184.7	559.4	550.9	774.5	512.6
1975 1976	962.5	442.4	267.5	285.3	149.5	378.2	429.7	571.9	262.0	141.9	90.4	171.5	238.5	214.6	666.8	521.3	464.7	670.4
1976 1977	691.9	661.6	522.3	421.0	268.7	135.6	171.4	197.5	192.0	171.6	121.6	103.0	219.9	339.1	276.6	259.1	538.4	381.6
1977 1978	217.4	269.0	258.5	240.4	141.5	120.3	402.6	458.9	95.5	140.2	117.7	454.4	208.5	218.2	327.6	404.6	722.4	558.1
1978 1979	486.5	378.0	269.6	204.0	327.2	154.4	289.0	101.5	61.8	145.8	507.7	225.7	114.9	307.6	449.2	498.0	496.2	351.7
1979 1980	349.6	253.9	148.4	131.8	132.2	156.7	81.5	721.4	102.9	296.3	261.1	143.1	168.5	640.7	586.1	450.7	453.8	449.0
1980 1981	389.0	321.4	181.8	150.8	201.0	87.5	504.0	727.2	167.3	346.3	107.4	98.8	140.1	502.1	299.1	516.6	458.0	567.1
1981 1982	361.8	313.7	217.5	105.8	127.5	259.2	198.6	218.8	153.0	380.3	169.4	110.9	125.4	259.5	352.0	666.5	602.2	838.7
1982 1983	566.4	432.3	333.0	175.8	159.1	198.2	119.4	333.1	327.6	256.5	309.9	172.8	149.2	294.3	266.1	656.6	504.3	421.2
1983 1984	733.1	323.6	307.5	165.7	141.7	118.3	469.5	111.1	536.1	190.7	155.3	247.3	148.6	181.8	217.3	432.6	446.1	608.2
1984 1985	425.1	378.1	254.0	154.9	151.5	181.6	223.2	106.6	93.5	73.3	90.0	121.4	433.2	408.0	290.6	708.0	663.2	508.8
1985 1986	432.8	233.4	153.9	103.1	149.1	407.1	346.7	97.9	350.0	415.7	398.2	291.0	213.5	299.4	241.8	716.8	588.9	404.7
1986 1987	350.7	252.6	206.8	136.0	127.7	152.5	375.1	175.7	200.8	175.0	441.0	182.6	224.6	484.5	859.0	387.5	533.0	418.1
1987 1988	326.7	192.2	144.2	115.2	99.9													

ACCRETION FROM GORGE TO NEWHALEM (CFS)

YEAR	JUL1	JUL2	AUG1	AUG2	SEP	OCT	NOV	DEC	JAN	FEB	MAR 1	MAR 2	APR 1	APR 2	MAY 1	MAY 2	JUN 1	JUN 2
1928 1929	94.8	89.6	40.5	29.6	28.0	77.3	38.3	26.2	17.0	11.3	16.6	35.4	28.4	51.9	84.6	115.5	123.6	97.5
1929 1930	77.1	51.7	45.9	30.6	21.1	21.8	14.2	19.0	18.7	76.4	31.4	76.9	83.8	76.9	68.5	68.1	79.8	73.2
1930 1931	91.6	48.1	51.5	28.9	36.3	40.8	29.4	19.6	76.4	49.2	53.6	70.5	63.8	80.9	133.2	101.6	148.1	120.4
1931 1932	99.6	71.5	32.4	33.9	36.8	20.8	60.3	30.4	34.2	109.5	105.3	57.3	95.7	111.5	117.1	100.3	145.1	159.5
1932 1933	109.8	70.6	45.8	46.8	23.7	49.3	131.4	63.9	43.5	12.0	26.3	34.4	44.4	79.8	76.0	92.9	133.8	135.8
1933 1934	147.9	121.9	77.3	58.2	69.6	127.7	91.1	134.2	95.4	71.9	114.1	107.8	118.6	146.2	128.4	143.1	117.9	84.7
1934 1935	67.3	82.1	43.5	38.0	27.5	51.9	117.8	74.3	134.5	73.1	48.9	40.9	28.5	68.8	93.1	122.6	163.4	128.0
1935 1936	103.6	95.0	49.1	39.8	33.0	34.1	25.7	42.1	47.6	14.7	69.4	39.4	67.4	159.1	144.3	148.8	161.8	123.2
1936 1937	86.2	55.7	34.2	24.0	21.4	14.1	13.1	55.3	12.9	14.4	62.9	44.9	67.7	60.5	105.0	104.1	164.0	178.4
1937 1938	104.1	63.5	35.9	24.5	16.9	63.6	100.9	78.4	51.2	20.4	52.4	40.9	40.9	116.2	81.7	160.4	136.3	170.5
1938 1939	96.4	70.3	27.0	25.0	20.7	35.5	41.5	67.3	83.9	23.9	18.0	72.9	71.1	96.9	107.7	145.4	105.6	132.4
1939 1940	121.3	90.1	47.6	32.2	23.2	61.1	68.2	120.3	42.4	41.1	60.6	69.3	73.7	71.9	111.0	129.2	102.2	70.7
1940 1941	53.7	40.4	24.5	22.4	18.1	100.6	43.2	75.3	56.7	36.5	42.1	47.0	53.6	68.8	69.7	80.1	77.6	55.4
1941 1942	43.7	28.7	14.2	20.6	66.6	90.4	75.0	84.9	25.4	29.2	32.6	26.1	66.2	57.3	56.7	120.1	126.1	91.0
1942 1943	89.7	56.2	20.1	16.1	9.2	12.4	58.5	78.6	76.2	42.7	35.3	80.3	128.8	91.6	55.2	145.7	132.2	167.2
1943 1944	185.2	136.2	74.4	38.5	22.7	36.5	35.2	58.2	50.4	37.0	53.2	40.1	54.6	56.2	91.6	83.3	94.8	74.0
1944 1945	42.0	39.0	26.3	18.4	57.3	42.5	56.0	53.7	83.3	70.7	26.4	49.0	33.6	68.9	141.2	146.8	97.7	142.6
1945 1946	115.7	54.2	36.5	20.4	43.0	80.6	53.2	36.9	46.2	35.4	47.5	39.1	52.9	102.6	165.4	216.3	174.7	154.8
1946 1947	141.9	121.8	74.9	55.3	32.4	41.5	35.5	59.5	45.8	62.3	34.7	78.2	64.1	108.2	147.6	156.4	130.8	142.0
1947 1948	118.2	80.2	48.4	31.6	33.1	105.6	46.7	63.4	33.3	25.4	21.5	29.6	28.5	89.2	88.4	237.3	302.7	178.4
1948 1949	99.2	90.7	59.3	75.6	55.0	54.3	41.3	18.9	22.3	25.0	43.5	46.7	75.1	115.2	201.4	197.8	208.3	117.8
1949 1950	146.8	118.8	81.3	41.6	55.1	62.7	156.0	45.5	39.2	39.8	71.5	39.1	45.0	65.2	112.9	152.3	211.2	262.7
1950 1951	198.5	146.6	101.3	74.8	40.3	89.2	123.3	145.5	47.0	109.9	21.0	29.3	90.9	77.2	133.2	153.2	145.9	175.0
1951 1952	129.2	87.1	53.4	38.0	42.4	80.2	44.3	26.2	20.5	41.1	21.4	27.3	62.0	104.6	102.1	169.2	152.5	143.2
1952 1953	143.1	86.2	59.4	32.0	23.2	16.3	21.6	25.2	141.1	61.3	26.4	31.8	28.4	99.8	122.1	132.9	143.9	107.9
1953 1954	190.8	90.8	77.8	52.9	70.3	84.0	80.8	72.6	39.4	61.5	40.3	26.5	54.1	64.3	117.1	192.3	138.8	222.5
1954 1955	249.7	174.6	123.3	104.9	78.9	67.1	152.2	45.5	26.7	27.2	14.5	14.2	64.4	34.9	72.3	145.7	227.5	190.7
1955 1956	178.4	167.2	100.9	52.3	38.0	129.8	97.8	49.8	26.5	15.7	13.9	25.5	56.7	116.4	113.0	261.9	216.3	174.3
1956 1957	204.8	143.9	72.9	66.8	74.2	111.5	58.2	94.7	24.2	37.8	44.2	34.7	69.1	86.2	192.8	152.2	186.6	101.3
1957 1958	97.5	81.1	55.6	39.3	36.5	38.4	38.0	45.5	62.2	59.1	31.6	34.5	41.9	63.6	120.4	221.5	153.9	146.2
1958 1959	80.8	60.9	30.5	33.6	50.7	79.9	90.2	136.1	70.9	24.7	38.5	37.9	107.5	123.0	119.6	127.2	200.7	208.0
1959 1960	182.1	151.4	67.6	66.5	116.1	116.9	117.0	55.1	34.8	42.5	16.6	67.2	112.2	51.2	133.7	90.0	216.2	170.2
1960 1961	155.1	100.5	56.5	45.4	36.4	77.7	74.1	60.2	104.2	93.3	41.8	54.4	72.7	63.0	78.1	218.0	281.4	217.8
1961 1962	153.7	96.6	54.4	49.4	34.0	76.9	53.8	56.3	88.1	67.4	19.0	21.6	67.9	84.6	62.8	120.4	139.4	196.6
1962 1963	126.2	123.5	95.4	64.7	50.0	54.8	110.0	98.1	48.5	98.7	41.5	35.5	49.8	42.4	51.6	150.4	134.8	116.6
1963 1964	88.2	77.6	69.6	43.3	43.8	73.6	99.6	80.7	60.5	32.8	24.7	31.3	62.9	49.4	70.1	169.1	249.2	177.3
1964 1965	231.9	168.8	120.1	100.0	72.8	76.0	53.6	53.5	48.0	62.2	54.7	31.5	35.8	125.2	87.8	147.5	175.8	136.0
1965 1966	147.1	96.7	81.2	52.9	30.6	59.7	73.1	50.8	35.5	22.1	29.5	61.6	105.6	51.1	149.9	104.7	140.9	153.4
1966 1967	155.4	104.0	69.1	42.6	33.0	84.4	53.6	134.0	53.1	35.9	23.2	41.2	33.7	37.4	94.5	174.1	216.1	284.7
1967 1968	170.9	108.8	73.8	47.1	38.8	158.0	69.9	71.7	111.7	94.9	92.5	43.6	42.0	47.1	82.6	139.2	220.9	168.2
1968 1969	176.5	96.1	56.1	60.5	68.0	58.3	87.7	41.8	47.6	15.5	13.4	47.3	71.0	92.6	161.5	201.9	243.3	117.1
1969 1970	107.2	60.6	40.4	32.8	71.7	49.1	48.1	37.0	40.6	45.3	32.9	32.4	60.4	31.0	62.9	125.2	185.6	153.5
1970 1971	96.0	67.3	39.2	26.1	46.2	33.4	58.7	36.5	65.7	88.2	27.1	33.1	47.8	68.0	199.9	156.9	159.3	167.2
1971 1972	139.0	247.8	113.5	55.4	39.0	48.8	58.9	24.0	36.3	69.0	148.1	115.4	93.2	50.5	155.5	250.3	262.6	190.6
1972 1973	256.8	177.4	135.9	89.0	74.4	35.8	36.2	81.7	47.2	24.8	36.1	26.5	39.3	53.2	94.7	147.3	123.1	143.9
1973 1974	104.7	105.4	80.4	36.4	36.6	66.6	63.1	72.1	107.5	32.8	26.4	96.4	60.3	72.6	123.7	130.9	252.7	275.9
1974 1975	193.9	202.9	135.5	83.6	49.0	21.5	70.5	67.8	46.0	26.6	41.6	20.7	24.6	42.7	133.3	137.4	212.4	135.9
1975 1976	268.8	111.8	61.7	68.8	37.1	98.5	114.4	191.3	70.7	37.4	24.7	39.2	57.0	50.9	166.4	134.5	114.2	180.5
1976 1977	186.6	172.2	136.2	107.6	63.8	32.9	42.4	46.6	55.6	40.9	28.7	25.4	51.8	82.3	71.0	66.2	146.5	103.0
1977 1978	54.4	59.7	57.6	57.0	35.5	28.3	102.7	115.7	33.3	36.9	30.4	103.0	49.7	50.7	77.7	99.8	192.9	145.2
1978 1979	127.6	96.0	61.0	49.4	85.4	34.4	69.1	29.4	20.0	34.6	121.1	56.8	34.1	74.6	112.0	128.7	126.9	91.5
1979 1980	88.4	59.1	33.3	30.1	28.8	34.9	22.3	187.7	33.9	74.6	71.5	43.0	41.5	134.3	126.2	109.0	113.0	115.7
1980 1981	102.0	86.7	47.9	37.3	51.3	26.1	127.7	208.3	56.2	85.8	36.3	29.3	38.2	113.9	79.9	127.1	121.6	145.9
1981 1982	93.5	81.3	52.9	24.3	34.6	69.4	53.9	63.5	42.2	96.9	51.4	32.7	34.2	63.1	88.5	178.8	162.1	244.4
1982 1983	152.7	114.4	90.3	49.0	40.1	44.0	41.7	83.9	92.2	65.2	85.8	47.6	38.4	76.8	73.3	182.6	134.6	113.5
1983 1984	176.6	95.8	78.7	38.2	39.7	29.8	117.6	27.7	143.2	49.2	41.5	62.5	38.0	46.1	54.9	110.2	117.6	167.7
1984 1985	113.5	99.1	63.8	38.1	37.9	46.1	58.1	27.1	27.7	21.5	25.9	33.1	108.7	94.0	72.4	186.6	182.0	138.7
1985 1986	115.0	60.8	36.6	24.7	37.2	106.3	85.3	23.9	91.0	101.9	103.0	73.4	54.1	71.0	61.0	189.2	158.8	108.1
1986 1987	92.0	65.8	50.7	33.1	32.1	38.7	101.5	45.8	57.7	45.5	113.8	47.3	56.8	109.5	205.7	96.9	140.2	111.1
1987 1988	84.9	49.8	34.2	27.8	24.8													

ACCRETION FROM NEWHALEM TO MARBLEMOUNT (CFS)

YEAR	JUL1	JUL2	AUG1	AUG2	SEP	OCT	NOV	DEC	JAN	FEB	MAR 1	MAR 2	APR 1	APR 2	MAY 1	MAY 2	JUN 1	JUN 2
1928 1929	2173.1	1658.5	376.6	301.4	750.5	1835.4	794.4	648.0	426.1	298.9	485.5	930.8	626.0	1387.7	1933.3	2758.2	2671.4	2357.9
1929 1930	1495.2	1004.3	613.0	465.1	450.1	381.2	353.4	680.9	444.9	2049.8	714.8	1666.8	1994.7	2164.2	1801.6	1923.1	2045.2	1965.5
1930 1931	1744.5	1176.6	730.0	460.9	744.7	1071.2	905.5	714.4	1817.7	1343.4	1123.5	1509.1	1373.6	1558.0	2802.3	2199.6	2418.1	2160.9
1931 1932	1173.6	904.4	235.2	210.0	1043.2	739.7	1509.5	1179.7	1128.0	2413.0	1746.4	2062.1	1945.2	1988.0	2657.7	2218.7	2859.9	3031.9
1932 1933	2173.1	1658.5	1167.9	973.3	672.0	1087.4	3803.8	1827.9	1259.6	561.1	854.5	1012.3	1056.6	1953.9	1684.1	2396.2	3296.3	3442.1
1933 1934	4196.9	3838.1	2998.5	2047.4	1543.3	3004.2	2551.6	3731.9	2974.0	1807.0	2092.2	2173.3	2104.7	3303.3	2227.1	2660.5	2210.4	1558.3
1934 1935	1311.6	1355.4	862.9	842.4	750.5	1146.8	2622.2	1774.6	3467.5	2221.8	1060.3	941.6	735.3	1204.0	1530.1	2461.6	2867.8	2309.1
1935 1936	1928.5	1946.7	848.0	728.4	942.1	556.4	498.8	628.0	976.7	458.0	1171.5	803.2	899.9	3418.9	3045.0	3787.6	3677.9	2762.9
1936 1937	1360.3	981.8	582.5	452.7	649.2	487.2	391.8	1014.2	464.2	401.8	1137.1	986.2	1081.7	1375.6	2269.0	2289.1	3676.2	3624.5
1937 1938	2304.8	1512.4	568.8	456.3	660.4	1176.2	2013.5	1533.2	1594.0	738.1	1029.7	979.4	827.0	2576.6	1655.9	3254.1	2640.0	3018.6
1938 1939	1567.3	1320.2	294.1	281.7	680.1	763.5	914.7	1630.0	2015.1	748.2	542.5	1670.3	1435.3	2022.7	2314.1	3011.1	2110.9	2649.6
1939 1940	2505.9	2079.9	994.2	676.6	670.8	1371.0	1635.7	2592.1	1621.3	1340.7	1543.6	1655.3	1409.9	1545.7	2201.0	2525.9	1801.7	1417.3
1940 1941	637.1	556.3	320.9	290.8	682.4	1905.3	950.7	1620.1	1102.7	871.9	905.5	971.6	1166.1	1456.5	1627.1	1899.0	1623.9	1225.0
1941 1942	652.1	508.5	244.1	240.7	1258.8	2185.5	1418.5	2043.5	800.2	672.7	748.9	690.6	1257.2	1506.2	1175.9	2738.5	2526.7	2028.9
1942 1943	2014.7	1388.6	616.5	468.4	501.8	364.3	1155.9	1547.6	1344.9	1165.3	915.0	1322.5	2156.8	2088.1	1290.6	2725.4	2348.9	2755.9
1943 1944	3381.0	2606.6	1270.0	858.4	727.3	901.3	786.2	1215.5	1103.7	723.5	838.5	786.9	1124.7	1204.0	1991.3	2210.0	1901.3	1435.3
1944 1945	764.4	727.9	375.6	282.1	1223.1	1144.3	964.2	1243.2	1987.3	1634.9	798.1	1128.9	934.3	1209.4	2527.4	2750.8	2007.5	2451.1
1945 1946	1965.3	886.3	610.5	424.1	899.4	1883.3	1642.6	1105.9	1090.3	962.9	1387.5	1144.1	1093.9	2164.9	2829.4	3677.1	2784.9	2573.4
1946 1947	2622.3	2182.9	1185.9	1011.4	690.2	1139.0	818.0	2016.1	1299.7	1877.5	983.3	1654.4	1270.7	2339.3	2680.0	2906.9	2500.7	2452.7
1947 1948	1740.7	1323.1	891.3	632.5	655.0	2041.9	1329.3	1521.9	1006.1	878.2	813.1	822.4	872.7	1836.0	1702.0	4050.6	5040.0	3483.3
1948 1949	2122.7	1458.8	1431.3	1534.4	1262.7	1274.8	1339.3	855.5	491.6	668.9	1307.3	1434.4	1358.0	2420.0	3959.3	3234.4	3286.7	2058.7
1949 1950	2185.3	1966.9	1188.0	847.5	1094.7	1300.7	3017.0	1603.2	1385.5	1264.6	2090.7	1274.4	1318.7	1714.7	2146.0	2799.4	4037.3	5186.7
1950 1951	4446.7	3760.0	2768.0	2685.0	1480.0	2597.7	2902.0	3011.3	1171.3	3202.9	853.3	1115.6	1822.0	1782.0	2604.0	2544.4	2389.3	2402.0
1951 1952	1832.0	1029.4	702.0	480.6	626.3	1540.4	1154.7	896.2	488.9	1156.9	698.3	806.9	1092.6	2197.5	1813.8	3104.3	2316.1	2068.9
1952 1953	2217.9	1498.5	936.4	545.1	604.4	356.1	370.9	523.7	2868.1	2007.3	822.0	940.9	661.7	1856.4	2237.9	2408.9	2356.3	1936.1
1953 1954	3778.6	2126.0	1572.9	1147.0	1002.1	1587.8	1969.6	2338.6	1546.9	2260.0	1400.0	929.8	1134.1	1527.1	2013.4	3197.2	2335.1	3362.3
1954 1955	4721.1	3568.3	2887.9	2989.1	1735.1	1294.3	2730.8	1358.7	947.2	850.8	633.3	611.8	1422.9	886.1	1254.3	2422.3	3853.3	3354.3
1955 1956	3261.6	3103.0	1992.6	1211.5	880.1	2209.3	2981.5	1786.1	1001.6	533.0	574.3	841.4	1091.3	2543.5	1859.5	4328.1	3272.7	2823.6
1956 1957	3163.5	2415.9	1031.1	1007.7	1065.9	2069.5	1429.2	2252.7	816.7	1017.6	1414.1	954.6	1279.1	1642.1	3511.1	2790.8	3128.1	1920.0
1957 1958	1321.9	1157.4	669.9	492.8	709.0	729.2	920.4	1082.8	1673.2	1533.4	1103.3	859.5	831.0	1564.5	1977.9	3850.3	2428.4	2349.9
1958 1959	1053.9	869.8	523.1	516.1	998.9	1831.6	2220.3	3181.6	2282.5	947.2	982.2	1032.3	1664.9	2145.3	2343.3	2466.2	3237.0	3514.7
1959 1960	3552.4	3167.6	1320.5	1081.6	2111.4	2842.1	3335.9	1872.6	1035.1	1401.2	652.0	1551.0	2127.1	1330.4	2472.2	2022.0	3189.5	2539.9
1960 1961	2613.0	2021.9	1175.5	833.4	871.5	1290.1	1748.5	1400.6	2792.7	2615.1	1357.5	1493.1	1503.7	1246.1	1547.3	2846.6	4175.5	3572.9
1961 1962	2229.6	1572.8	1000.3	902.3	872.4	1256.6	1176.7	1350.3	2767.6	1595.5	754.3	763.0	1293.6	1779.9	1307.6	2245.8	2153.8	3157.3
1962 1963	2030.9	2194.9	1803.3	1210.5	922.6	1056.2	2230.8	2489.6	1670.9	2636.7	1159.9	916.2	1028.3	1128.9	1088.9	2873.2	2178.9	2007.7
1963 1964	1479.1	1151.2	1088.6	695.2	918.0	1353.7	1966.3	1774.7	1809.6	971.7	803.3	1003.0	1299.3	1145.1	1116.5	3035.0	4246.3	3078.1
1964 1965	4486.0	3069.4	2260.3	1770.1	1184.8	1528.6	1141.2	1501.2	1608.9	1949.6	1482.3	959.8	766.7	2362.1	1666.7	2695.4	2940.9	2298.3
1965 1966	2502.1	1864.4	1554.3	1114.4	583.3	808.5	1367.1	1074.5	1017.6	642.7	759.9	1372.6	1997.7	1176.5	2670.3	2007.3	2179.0	2441.9
1966 1967	2393.7	1797.6	1066.9	710.0	668.0	1410.3	1242.5	2791.7	1869.5	1424.2	828.0	1180.7	932.5	873.3	1641.8	2992.5	3329.6	4600.6
1967 1968	2993.7	2057.5	1436.8	1045.1	963.3	2968.0	1888.5	1879.7	3012.6	2496.8	2153.2	1148.8	1122.9	1070.0	1541.5	2665.0	3338.7	2749.7
1968 1969	2967.6	1814.8	1074.7	996.5	1338.1	1221.0	1893.0	1263.6	1570.2	556.5	513.4	1263.0	1382.9	1776.9	2619.7	3573.9	4119.8	2397.7
1969 1970	1465.0	956.0	352.6	293.7	1244.9	1139.4	1072.4	963.2	1243.1	1363.4	902.3	825.4	1254.0	847.3	1207.5	2478.9	3097.5	2712.1
1970 1971	1396.4	996.6	376.6	301.4	829.3	639.5	1235.0	1125.9	1979.6	2861.5	975.9	1059.6	1263.3	1420.9	3454.9	2892.3	2602.7	2921.5
1971 1972	2833.8	5043.8	2709.4	1472.6	848.6	885.3	1298.2	751.2	874.8	1602.5	3287.9	2847.4	1834.8	1204.1	2413.7	4200.8	4536.2	3320.9
1972 1973	4702.2	3612.1	2935.5	1946.4	1351.2	761.5	852.4	1861.8	1544.9	778.6	979.0	787.1	891.1	1214.1	1639.3	2788.9	1905.0	2456.7
1973 1974	1532.7	1448.6	933.9	465.1	717.6	1029.1	1351.4	1805.9	2610.0	1102.2	764.3	2170.8	1408.6	1601.9	2227.9	2235.9	3853.1	4714.1
1974 1975	3815.3	3839.1	2935.9	1913.7	1030.6	335.4	1261.6	1449.2	1591.8	869.1	1299.9	721.6	696.7	974.1	2089.2	2430.1	3407.6	2370.6
1975 1976	4858.7	2174.5	926.9	998.9	811.9	1574.3	2774.0	4201.7	2206.2	1285.9	752.1	849.4	1156.6	1163.2	3038.4	2935.3	2341.3	3396.7
1976 1977	3966.0	3678.1	2604.7	1970.0	1150.0	659.4	713.8	1240.7	1711.3	967.5	1020.7	829.4	1281.3	1785.3	1503.3	1291.3	2660.7	1878.0
1977 1978	1121.3	1200.0	1097.3	1168.1	716.7	651.9	2166.0	2953.9	1440.7	1029.3	948.0	2099.4	1236.0	1179.3	1606.7	1896.3	3189.3	2300.0
1978 1979	2314.7	1743.1	1162.0	993.1	1688.7	680.7	1439.3	625.5	399.0	821.6	2332.0	1178.1	829.3	1412.0	2266.7	2416.9	2529.3	1397.3
1979 1980	1571.3	1095.6	516.7	563.8	659.5	827.7	477.0	3661.0	1120.0	1871.0	1418.0	971.9	1112.7	2806.0	2508.7	2726.9	2588.0	3445.3
1980 1981	2977.3	2005.0	945.3	848.8	1291.0	846.1	2952.0	3821.0	1856.8	2378.6	1202.0	1105.0	1347.3	2951.3	3188.0	2693.1	2896.0	3532.0
1981 1982	2428.0	2046.3	1432.7	1044.4	1105.0	2032.3	1762.7	1832.6	1540.7	3338.9	1664.0	1247.5	1278.7	1639.3	2146.0	3553.1	3821.3	5828.0
1982 1983	3962.0	3001.9	2221.3	1518.1	1282.0	1545.7	1449.8	2020.1	2378.3	2097.1	2093.5	1371.3	1207.2	1782.6	1617.8	3278.6	2826.4	2542.9
1983 1984	3416.0	2817.6	1786.4	1121.4	1054.0	987.9	3078.3	1121.0	3737.7	1710.7	1402.7	1779.4	1093.3	1152.0	1624.0	2680.0	2700.0	3976.0
1984 1985	3317.3	3015.6	1703.3	1053.8	993.3	1181.9	1942.3	1331.3	1241.9	1092.9	1138.0	1051.9	2520.0	2168.0	1912.7	3991.3	3914.7	3093.3
1985 1986	2821.3	1863.1	1158.0	885.0	1012.0	2447.4	1873.7	541.3	2179.0	2521.4	2012.7	1641.3	1132.0	1339.3	1464.0	3583.8	2912.7	1972.0
1986 1987	1751.3	1244.4	954.0	702.5	645.7	830.0	1982.3	1093.2	1194.2	1056.1	2337.3	1018.1	1364.0	2070.7	3859.3	1960.6	2296.7	1793.3

COMPARISON OF STANDARD ERROR FROM PREVIOUS SEATTLE CITY LIGHT VECC DATA FILES
VERSUS HYDROMETEOROLOGICAL APPROACH

	STANDARD ERROR SCL VECC FILES (1)	STANDARD ERROR HYDROMETEOROLOGICAL APPROACH
JAN	203.0	163.3
FEB	155.0	113.8
MAR	122.8	110.6
APR	100.9	76.9
MAY	85.1	61.0
JUN	82.7	57.1
JUL (2)		24.8

(1) A DIVISOR OF 1.645 WAS USED TO COMPUTE THE STANDARD ERROR FROM THE 95% CONFIDENCE BAND. ERRORS ARE BASED ON RECENT ANALYSIS OF SEATTLE CITY LIGHT SNOWMELT FORECAST APPROACH.

(2) NO STANDARD ERROR WAS AVAILABLE FOR JULY SINCE A SNOWMELT FORECAST IS NOT MADE IN JULY.

SUMMARY OF REGRESSION ANALYSIS RESULTS
PREDICT NEWHALEM-MARBLEMOUNT MONTHLY ACCRETION FROM CASCADE RIVER AT MARBLEMOUNT

MONTH	CORRELATION COEFFICIENT	STANDARD ERROR OF Y ESTIMATE	REGRESSION CONSTANT	X COEFFICIENT	AVERAGE FLOW CASCADE RIVER (CFS)	AVERAGE FLOW NEWHALEM-MARBLEMOUNT ACCRETION OVERLAP PERIOD (CFS)	DAILY LOW FLOW ADJUSTMENT FACTOR (1)
OCTOBER	0.8128	310.7	-245.0	2.041	732.2	1249.7	0.7375
NOVEMBER	0.9148	275.8	29.4	1.840	860.2	1612.3	0.6094
DECEMBER	0.9630	174.1	47.0	1.894	857.9	1671.5	0.5571
JANUARY	0.8117	199.9	-12.4	2.176	516.7	1112.1	0.5495
FEBRUARY	0.9958	56.4	-11.0	2.120	604.6	1270.4	0.5933
MARCH	0.9082	118.7	197.8	1.651	633.3	1243.5	0.8196
APRIL	0.9154	91.9	323.4	1.343	867.5	1488.1	0.9341
MAY	0.9688	122.4	549.9	1.134	1665.6	2439.0	0.9613
JUNE	0.9298	264.5	-99.6	1.332	2171.4	2793.3	0.9280
JULY	0.9485	261.4	-996.1	1.836	1705.6	2134.7	0.8392
AUGUST	0.8589	303.1	-997.2	2.195	1041.2	1288.2	0.6308
SEPTEMBER	0.6262	258.1	-107.3	1.542	742.1	1037.1	0.5747

(1) The lowest daily flow for a given month is adjusted by this factor. A compensating adjustment is made by taking (1-factor) times the lowest daily flow and adding it to the highest daily flow. This is adjustment is then repeated in a linear fashion for the remaining low flows such that the adjustment factor is 1 for the median flow for the month.

Appendix C

SIMULATION RESULTS: ROSS LAKE LEVELS ANALYSIS

BASE CASE - REFILL TO 1602.5 ON JULY 31
INTERIM FISHERIES AGREEMENT

Date of Refill July 31 -- Target Refill Elevation 1602.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	301	111	117	101	78	247	812	1,311	2,123
1930	168	151	67	65	129	198	207	240	161	188	147	113	766	1,067	1,834
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	173	138	225	1,013	1,297	2,310
1933	132	163	157	148	322	229	369	331	342	196	302	221	1,015	1,898	2,914
1934	217	270	163	249	358	295	360	326	345	320	397	373	1,577	2,095	3,672
1935	305	314	92	78	238	227	345	324	287	300	136	242	1,296	1,589	2,886
1936	304	184	146	145	137	166	294	226	227	172	185	228	1,073	1,341	2,413
1937	113	186	144	87	136	215	306	111	161	169	83	312	862	1,160	2,021
1938	301	323	91	101	193	222	328	271	170	187	313	272	1,396	1,377	2,773
1939	138	224	114	68	121	148	326	275	236	189	131	288	969	1,288	2,257
1940	146	193	149	83	163	217	338	302	235	195	131	140	804	1,488	2,292
1941	110	165	59	124	141	117	334	272	237	219	70	58	622	1,283	1,905
1942	56	101	54	42	236	223	342	274	225	132	66	50	406	1,398	1,804
1943	87	126	157	93	88	225	326	268	229	245	178	263	899	1,386	2,285
1944	339	190	154	81	118	230	322	242	128	98	66	96	788	1,275	2,064
1945	254	152	87	63	111	238	304	181	173	114	95	113	728	1,157	1,885
1946	88	321	157	122	183	94	332	269	232	202	308	312	1,231	1,388	2,619
1947	209	166	173	162	138	228	329	261	229	185	142	283	984	1,520	2,504
1948	211	146	171	158	242	228	334	270	234	185	251	289	1,082	1,637	2,719
1949	266	196	166	158	246	236	334	264	222	176	247	266	1,151	1,627	2,779
1950	205	306	134	109	324	242	373	327	345	268	306	285	1,371	1,855	3,225
1951	353	232	166	168	348	372	338	315	365	330	325	317	1,557	2,072	3,628
1952	232	158	167	169	217	232	270	261	116	182	110	135	816	1,432	2,248
1953	136	173	148	73	118	140	313	266	243	263	226	265	1,063	1,300	2,363
1954	177	191	162	168	262	227	372	322	353	314	305	307	1,295	1,866	3,161
1955	328	319	182	175	367	232	340	274	242	244	131	246	1,268	1,812	3,080
1956	279	208	168	216	375	233	372	273	293	217	282	309	1,295	1,929	3,224
1957	364	201	159	228	241	233	343	273	240	208	237	277	1,287	1,716	3,004
1958	308	215	82	55	104	232	326	263	176	99	174	225	1,021	1,239	2,260
1959	303	151	93	107	231	317	367	334	297	317	325	303	1,398	1,746	3,144
1960	293	180	209	246	356	230	369	270	238	193	165	313	1,144	1,918	3,062
1961	241	180	170	153	233	227	316	257	353	276	225	288	1,210	1,709	2,919
1962	314	232	141	80	156	230	322	266	245	191	123	136	997	1,440	2,437
1963	113	167	168	159	225	254	335	262	247	207	243	213	942	1,651	2,593
1964	112	167	163	183	294	226	334	333	265	329	285	301	1,194	1,796	2,990
1965	259	220	166	176	242	230	332	264	238	190	133	253	1,056	1,647	2,703
1966	223	190	174	172	233	229	330	267	149	187	93	188	880	1,555	2,436
1967	150	172	149	144	178	260	335	331	355	266	280	265	1,133	1,752	2,884
1968	276	181	161	210	308	228	356	322	359	347	332	305	1,442	1,945	3,386
1969	230	168	160	160	233	233	330	273	232	184	137	277	997	1,622	2,619
1970	218	151	146	179	226	233	226	266	169	158	119	149	795	1,446	2,241
1971	59	232	111	71	89	234	322	312	297	308	305	311	1,215	1,436	2,650
1972	270	237	170	178	206	226	328	256	294	322	301	377	1,506	1,657	3,164
1973	445	278	164	165	216	223	312	251	140	101	63	127	1,014	1,472	2,485
1974	207	198	89	56	112	224	351	328	345	316	309	281	1,312	1,506	2,817
1975	343	280	165	98	142	229	333	272	236	193	161	265	1,241	1,476	2,717
1976	206	168	170	166	312	383	366	331	357	325	314	302	1,315	2,085	3,400
1977	229	309	173	165	116	114	334	270	241	190	74	100	903	1,413	2,316
1978	301	188	62	59	118	229	329	174	212	190	117	139	936	1,184	2,120

Plant GORGE -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	5428	2300	2300	2300	2300	2000	1700	2292	5681	4658
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	5204	3275	3248	3999	4000	3000	3000	2274	2771
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	4000	4000	3246	3000	5000	4999
1933	3962	2059	3449	3134	2994	2807	6362	4200	6557	6600	6599	6601	2744	5870	6507	6243	5001	4938
1934	4959	4471	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	3000	3000	5000	5373
1936	5850	5932	3694	3526	2977	2676	2504	3023	5325	4571	4500	4465	4000	4000	5419	3114	5000	5001
1937	3436	1779	4048	3222	2833	1667	2473	3964	5489	2300	2420	3955	4729	2483	1925	2194	6600	6600
1938	5850	5850	5850	5984	1896	2125	3887	4200	6000	5500	4500	2300	4000	4001	6024	6599	5000	6600
1939	4187	2045	3894	4384	2366	1400	2300	2808	6000	5499	4500	4500	4000	4000	3000	3000	6600	5001
1940	3890	2662	3568	3894	2871	1757	3195	4200	6000	6085	4501	4500	4000	4001	3000	3000	4801	1497
1941	2387	2426	3581	2912	1403	2769	2678	2347	6000	5499	4500	4499	4480	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	6000	5501	4500	3981	2920	2751	1700	1700	1786	1399
1943	1991	2404	3045	2180	2995	1731	1800	4200	6000	5500	4500	4500	4000	6474	3000	4448	5001	6106
1944	6580	8021	4560	2910	2995	1627	2226	4199	5840	4988	2858	2300	2300	2000	1700	1700	3122	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	2915	2051	1513	4019
1946	2201	2138	5850	5850	3133	2495	3531	1800	6000	5500	4500	4500	4000	4683	6600	6600	6600	6397
1947	4999	3943	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	6600
1948	5000	3603	2949	2818	3300	3300	4500	4200	6000	5500	4500	4500	4000	4000	4473	6599	6600	6600
1949	5850	4605	3971	3899	3300	3000	4500	4200	6000	5500	4500	4500	4000	4001	6599	4598	6333	5000
1950	5000	3727	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	4709	6654	6600	6601	6600
1951	7952	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6600	6600	6600
1952	5240	4344	3669	2712	3301	3301	4045	4156	4870	5474	2300	2300	4001	4000	2414	3000	2288	4154
1953	3996	2332	3726	3293	2901	1452	2174	2535	6000	5500	4501	4500	4000	6600	4935	4612	5994	5000
1954	5000	3006	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	6600	6480	6600	6601	6600	6601
1955	5850	9504	6853	5779	3701	3284	7587	4200	6000	5500	4500	4500	4000	6028	3000	2999	6229	5000
1956	5975	5669	5086	3263	3300	4714	7713	4201	6600	5500	6196	5154	2994	6600	5726	6600	6599	6600
1957	9311	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1200	2037	4200	6000	5500	4500	2372	2300	2000	3000	5109	5000	5000
1959	5851	5984	3897	2401	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6600	6600	6601	6600
1960	5851	6407	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	3000	6600	6686
1961	5867	4268	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	5947	3000	6600	6600	6600
1962	7050	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	4501	4000	4000	2396	2999	1772	5000
1963	1930	3438	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3999	3000	6600	5000	4119
1964	2712	2367	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	5372	6600	6600	6608
1965	5850	5277	5029	3803	3300	3370	4500	4200	6000	5500	4499	4501	4000	4000	3000	3000	5457	5298
1966	5000	4238	4552	3268	3300	3300	4475	4200	6000	5500	2300	3683	4000	4000	3000	1700	3804	4532
1967	3861	2909	3977	2975	2983	2907	3364	5017	6000	6600	6599	6600	6601	4262	5489	6600	6031	6599
1968	5850	5493	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	6600	6600	6600	6600
1969	5444	4384	3825	2964	3300	3000	4500	4200	6000	5500	4500	4500	4000	3999	3001	3865	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	4150	5500	4331	2300	2532	4000	3000	2462	4674	2792
1971	1836	1622	5259	3542	2303	1400	1800	4200	6001	6600	4500	6601	6600	6220	6600	6600	6600	6600
1972	4540	7845	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	5694	5115	3191	2300	2300	2000	1700	1818	2640	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6601	6600	6600	6600	6600
1975	5850	10741	7371	4371	3300	1813	2792	4200	6000	5500	4500	4500	4000	4000	3787	3598	6599	5000
1976	5850	3828	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	6600	6601	6600	6600	6132
1977	5000	5148	7950	5196	3506	3000	2250	2163	6000	5500	4500	4500	4000	3921	1700	1700	2817	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	3707	4145	4501	4000	4001	3000	2309	5000	2060

Date of Refill July 31 -- Target Refill Elevation 1602.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1531.4	1518.5	1512.2	1509.1	1504.7	1508.9	1528.2	1558.0	1572.8	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1520.9	1514.4	1514.0	1524.2	1539.6	1550.2	1563.4	1582.0	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1481.0	1494.9	1529.0	1549.2	1570.3	1588.4
1933	1595.2	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1476.5	1475.4	1475.0	1475.0	1488.7	1529.8	1564.0
1934	1587.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1546.5	1568.9	1588.8	1597.5
1936	1600.4	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1547.5	1520.9	1509.0	1492.1	1482.4	1518.3	1540.3	1572.1	1589.3	1594.5
1937	1597.6	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1531.2	1518.1	1514.4	1504.6	1492.7	1497.2	1520.2	1547.8	1574.5	1592.0
1938	1598.1	1595.7	1588.3	1577.7	1577.6	1579.4	1577.9	1572.5	1550.2	1521.2	1512.1	1512.2	1505.6	1519.5	1523.7	1552.2	1573.7	1587.7
1939	1594.1	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1531.2	1550.6	1575.7	1578.7	1586.7
1940	1594.9	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1538.8	1534.9	1534.3	1538.0	1551.7	1570.9	1576.6	1585.9
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1540.3	1531.0	1521.1	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1565.4	1539.1	1526.6	1514.0	1514.5	1520.4	1529.4	1555.4	1576.0	1588.5
1943	1598.6	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1553.1	1528.0	1517.3	1508.5	1517.2	1525.0	1531.7	1552.0	1572.0	1587.6
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1547.5	1520.9	1514.4	1509.9	1510.2	1514.3	1530.3	1549.4	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1519.0	1550.2	1574.7	1587.0
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1550.1	1522.8	1513.7	1502.7	1496.0	1504.9	1528.7	1562.5	1577.6	1587.3
1947	1595.7	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1598.3
1948	1600.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1522.7	1509.3	1492.5	1478.7	1485.5	1488.0	1538.0	1585.3	1600.5
1949	1600.7	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1502.8	1488.7	1477.0	1478.3	1499.2	1533.4	1567.1	1586.0	1592.6
1950	1598.0	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1475.0	1475.0	1501.1	1541.9	1587.1
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1563.9	1576.6	1590.0
1952	1599.0	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1535.9	1507.5	1501.9	1496.3	1489.5	1506.0	1526.9	1561.4	1582.0	1589.6
1953	1596.7	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.0	1550.9	1541.1	1530.9	1521.6	1516.5	1532.1	1554.0	1569.3	1578.8
1954	1594.7	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1488.3	1475.0	1484.9	1525.1	1543.1	1569.0
1955	1598.9	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1537.6	1524.7	1509.9	1505.9	1484.9	1489.7	1518.1	1554.7	1581.1
1956	1594.2	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1475.7	1475.4	1489.5	1503.1	1556.0	1583.2	1597.7
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1545.6	1525.6	1516.2	1514.0	1514.0	1520.2	1539.2	1578.4	1590.2	1596.6
1959	1593.5	1588.3	1585.3	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.6	1538.4	1563.5	1586.0
1960	1597.3	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1561.9	1582.8	1591.1
1961	1598.0	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1504.0	1514.9	1546.2	1583.7	1601.8
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1527.9	1524.0	1529.6	1534.3	1551.2	1571.4	1587.1
1963	1597.4	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1552.1	1552.7	1567.9	1579.7	1589.1
1964	1597.1	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1487.0	1506.8	1553.8	1572.5
1965	1594.8	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1550.8	1537.0	1531.8	1522.8	1515.5	1525.8	1538.2	1563.2	1583.6	1593.0
1966	1600.3	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1540.9	1508.9	1504.6	1498.5	1509.5	1508.0	1535.3	1557.0	1573.1	1585.0
1967	1595.1	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1512.5	1488.6	1475.0	1475.0	1506.2	1545.5	1590.1
1968	1601.2	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1531.6	1547.3	1571.6	1585.1
1969	1598.6	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1507.0	1494.5	1495.5	1503.7	1535.0	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1547.5	1524.2	1514.4	1512.1	1513.8	1504.6	1509.9	1540.7	1567.8	1587.2
1971	1595.9	1602.0	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1548.9	1538.0	1529.5	1509.1	1487.8	1475.0	1516.8	1541.1	1561.2	1577.6
1972	1587.8	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1547.5	1520.9	1514.4	1510.1	1508.1	1511.0	1525.2	1555.9	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1476.4	1483.9	1493.8	1535.1	1582.6
1975	1601.8	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1505.2	1490.9	1482.9	1502.4	1526.8	1557.5	1574.5
1976	1597.2	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1487.9	1514.4	1532.6	1541.3	1565.0
1977	1586.6	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1564.1	1542.8	1533.5	1520.8	1515.5	1520.4	1534.2	1543.4	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1511.1	1499.7	1501.3	1500.6	1499.5	1512.1	1533.4	1559.4	1579.1

Plant ROSS -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1934	0	0	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	213
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	10	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	37
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	37	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	52
1956	0	0	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	0	52
1957	31	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	81
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	71
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	23
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	95
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	55	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
1976	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
1977	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant GORGE -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	217
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	9	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	29	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	83
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	56	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	95
1956	0	0	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	0	40
1957	50	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	98
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	7	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	65
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	30	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	133
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	76	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
1976	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
1977	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

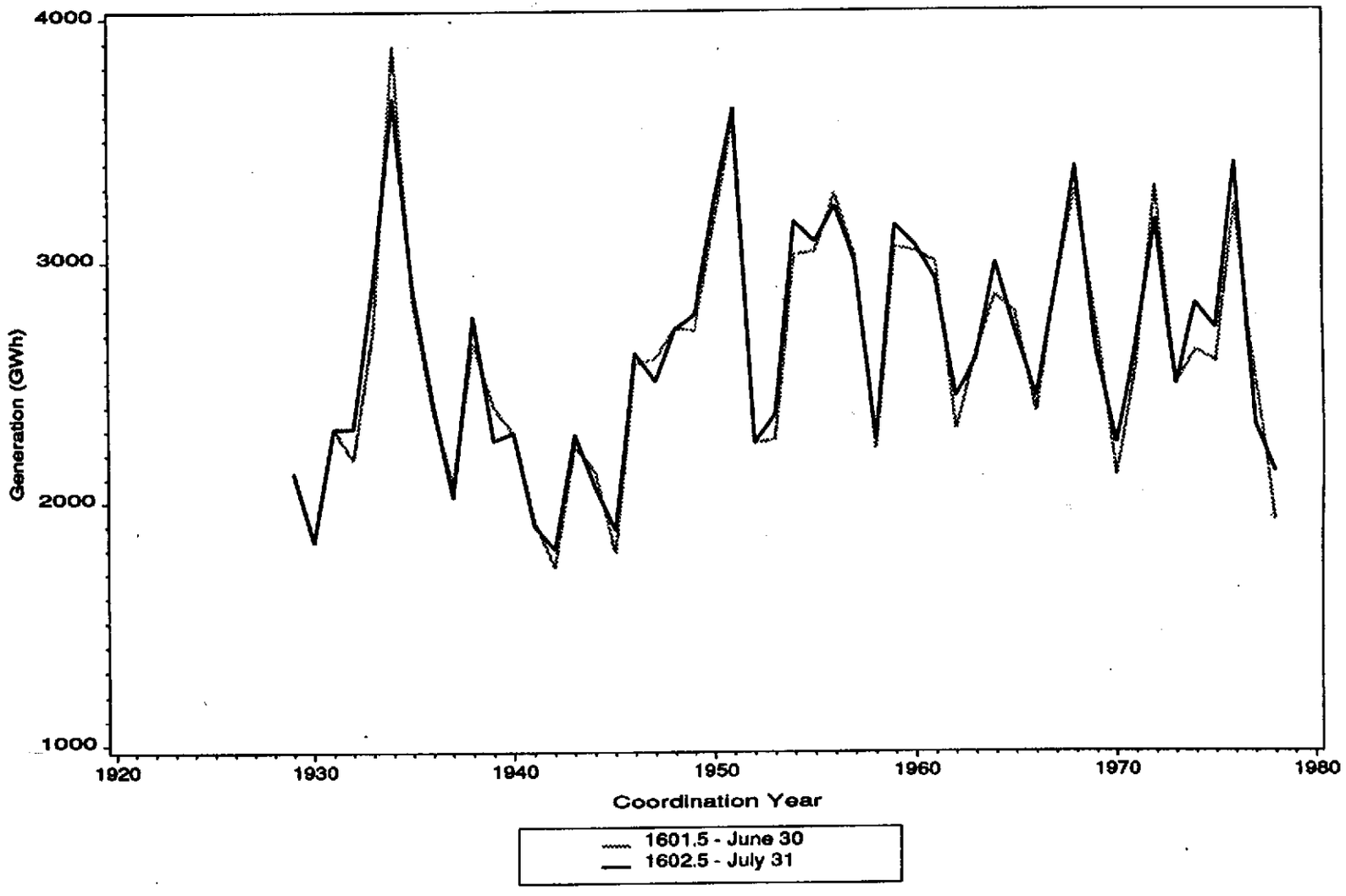
ALTERNATIVE 1 - REFILL TO 1601.5 ON JUNE 30
INTERIM FISHERIES AGREEMENT

Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1601.5

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1601.5 - June 30	1602.5 - July 31	1601.5 - June 30	1602.5 - July 31	1601.5 - June 30
1929	812	892	1,311	1,238	2,123	2,130
1930	766	795	1,067	1,050	1,834	1,845
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	884	1,297	1,297	2,310	2,181
1933	1,015	823	1,898	1,898	2,914	2,721
1934	1,577	1,792	2,095	2,095	3,672	3,888
1935	1,296	1,254	1,589	1,589	2,886	2,843
1936	1,073	1,171	1,341	1,216	2,413	2,387
1937	862	919	1,160	1,160	2,021	2,080
1938	1,396	1,440	1,377	1,229	2,773	2,669
1939	969	1,112	1,288	1,288	2,257	2,400
1940	804	798	1,488	1,488	2,292	2,286
1941	622	654	1,283	1,272	1,905	1,926
1942	406	372	1,398	1,356	1,804	1,728
1943	899	928	1,386	1,309	2,285	2,237
1944	788	921	1,275	1,209	2,064	2,130
1945	728	630	1,157	1,157	1,885	1,787
1946	1,231	1,186	1,388	1,388	2,619	2,574
1947	984	1,077	1,520	1,520	2,504	2,598
1948	1,082	1,181	1,637	1,543	2,719	2,724
1949	1,151	1,153	1,627	1,560	2,779	2,712
1950	1,371	1,289	1,855	1,855	3,225	3,144
1951	1,557	1,501	2,072	2,072	3,628	3,572
1952	816	966	1,432	1,278	2,248	2,244
1953	1,063	1,007	1,300	1,254	2,363	2,261
1954	1,295	1,158	1,866	1,866	3,161	3,024
1955	1,268	1,380	1,812	1,657	3,080	3,037
1956	1,295	1,348	1,929	1,929	3,224	3,277
1957	1,287	1,307	1,716	1,716	3,004	3,024
1958	1,021	1,178	1,239	1,041	2,260	2,220
1959	1,398	1,310	1,746	1,746	3,144	3,056
1960	1,144	1,119	1,918	1,918	3,062	3,037
1961	1,210	1,283	1,709	1,709	2,919	2,992
1962	997	874	1,440	1,423	2,437	2,297
1963	942	969	1,651	1,651	2,593	2,620
1964	1,194	1,059	1,796	1,796	2,990	2,855
1965	1,056	1,234	1,647	1,547	2,703	2,780
1966	880	985	1,555	1,386	2,436	2,371
1967	1,133	1,142	1,752	1,752	2,884	2,894
1968	1,442	1,347	1,945	1,945	3,386	3,291
1969	997	1,226	1,622	1,522	2,619	2,748
1970	795	834	1,446	1,275	2,241	2,109
1971	1,215	1,129	1,436	1,436	2,650	2,565
1972	1,506	1,641	1,657	1,657	3,164	3,298
1973	1,014	1,084	1,472	1,408	2,485	2,492
1974	1,312	1,119	1,506	1,506	2,817	2,625
1975	1,241	1,121	1,476	1,460	2,717	2,581
1976	1,315	1,141	2,085	2,085	3,400	3,226
1977	903	1,206	1,413	1,304	2,316	2,511
1978	936	873	1,184	1,048	2,120	1,921

Synergic Resources Corporation -- 16NOV89

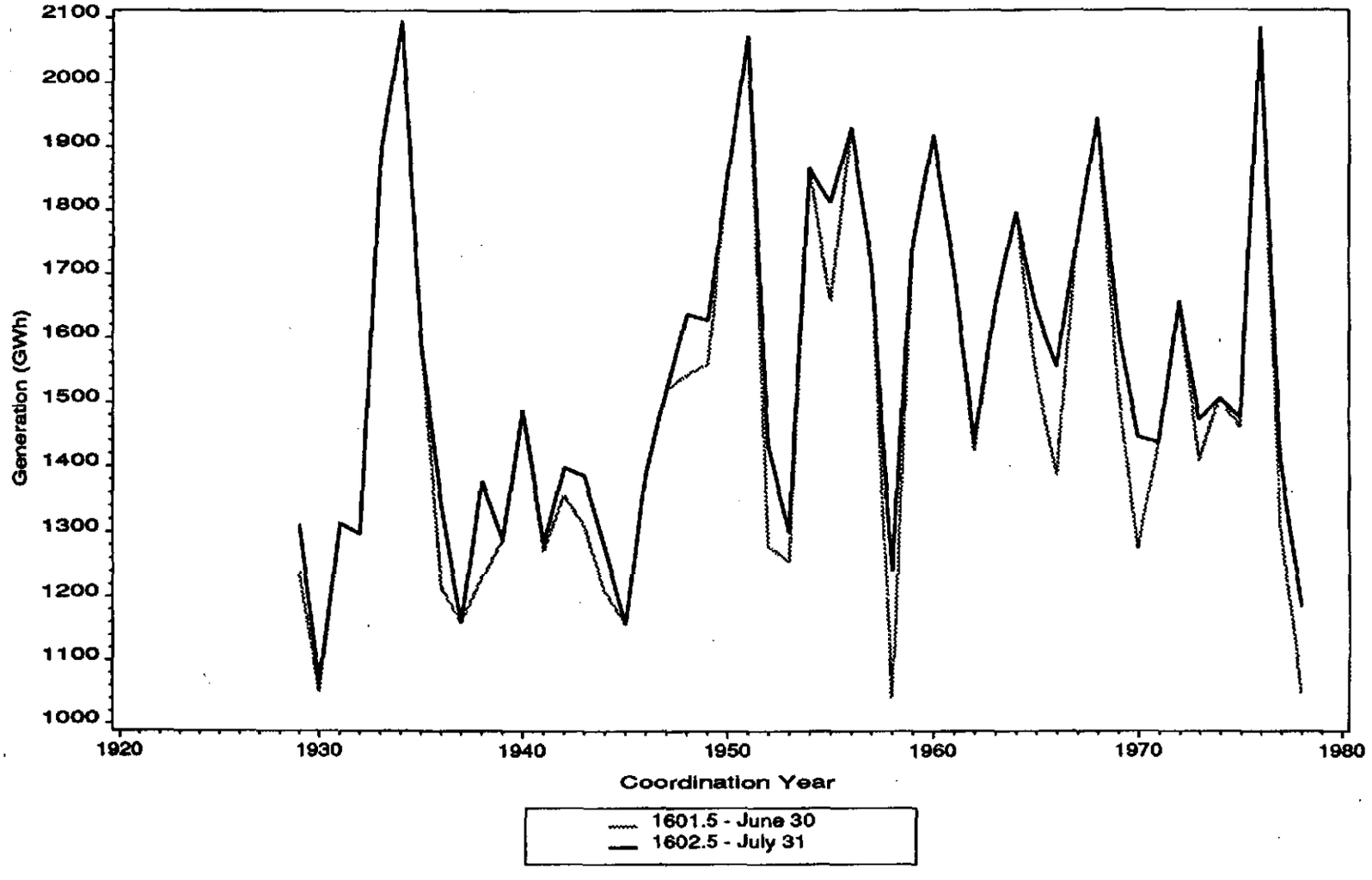
Annual Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1601.5



Synergic Resources Corporation – 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1601.5

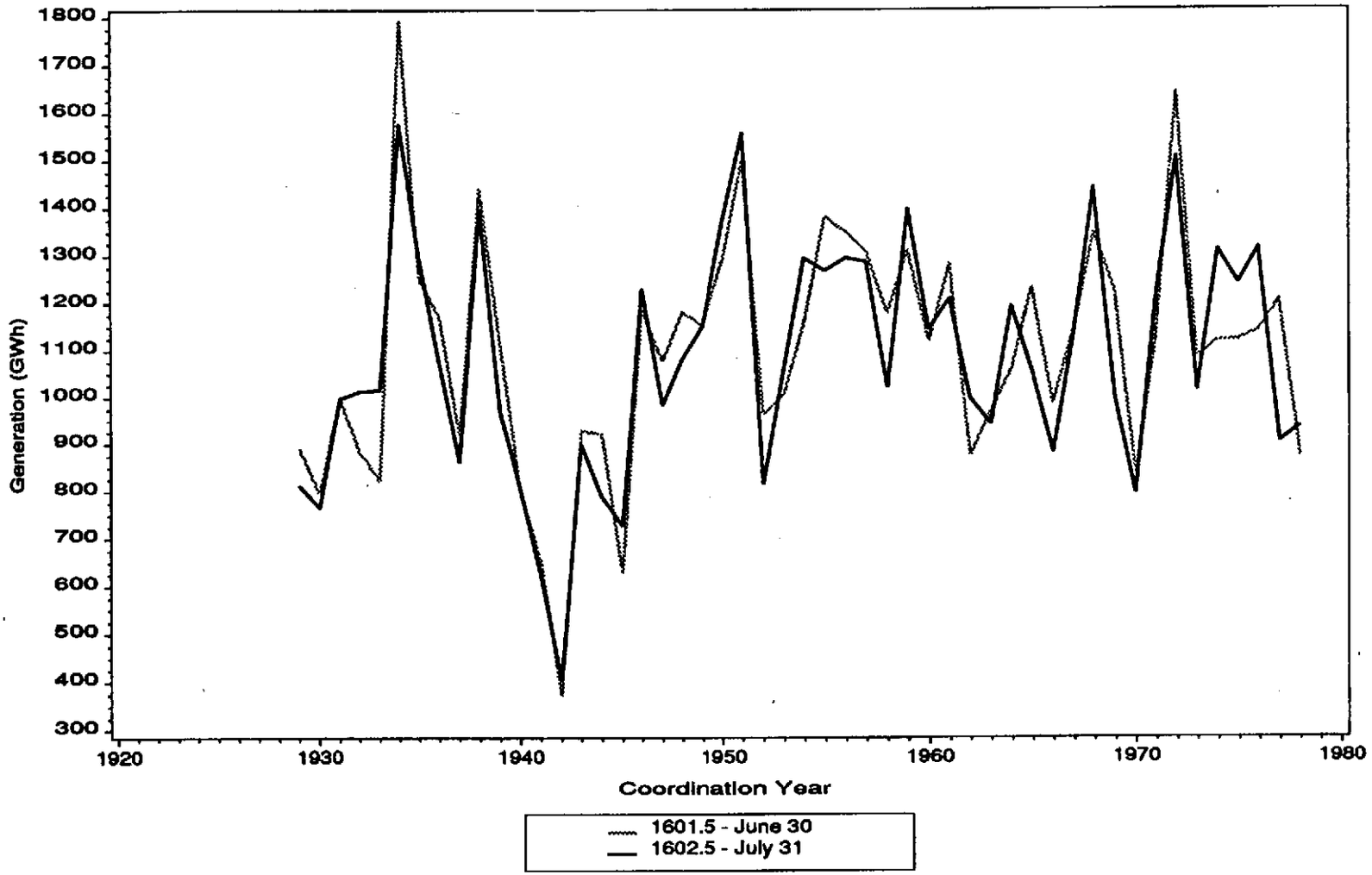
Energy Season=Winter



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1601.5

Energy Season=Summer



Synergic Resources Corporation -- 17NOV89

Date of Refill June 30 -- Target Refill Elevation 1601.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	190	114	154	144	61	300	892	1,238	2,130
1930	168	151	67	65	129	198	207	123	260	152	109	215	795	1,050	1,845
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	118	160	128	884	1,297	2,181
1933	274	163	157	148	322	229	369	331	342	196	80	109	823	1,898	2,721
1934	432	270	163	249	358	295	360	326	345	320	397	373	1,792	2,095	3,888
1935	305	314	92	78	238	227	345	324	287	300	123	212	1,254	1,589	2,843
1936	336	184	146	145	137	166	246	114	262	209	288	154	1,171	1,216	2,387
1937	190	186	144	87	136	215	232	112	234	169	63	312	919	1,160	2,080
1938	302	320	116	101	193	222	328	112	156	324	278	216	1,440	1,229	2,669
1939	287	224	114	68	121	148	326	275	236	174	133	295	1,112	1,288	2,400
1940	155	193	149	83	163	217	338	302	235	122	132	196	798	1,488	2,286
1941	130	165	59	124	141	117	334	229	269	231	70	58	654	1,272	1,926
1942	56	101	54	42	236	223	342	112	346	98	66	50	372	1,356	1,728
1943	175	126	157	93	88	225	326	266	154	252	247	128	928	1,309	2,237
1944	401	190	154	81	118	230	138	248	239	165	66	99	921	1,209	2,130
1945	254	152	87	63	111	238	304	181	173	114	55	55	630	1,157	1,787
1946	192	321	157	122	183	94	332	269	232	202	308	163	1,186	1,388	2,574
1947	338	166	173	162	138	228	329	261	229	185	142	247	1,077	1,520	2,598
1948	247	146	171	158	242	228	334	192	218	161	307	320	1,181	1,543	2,724
1949	289	196	166	158	246	236	334	191	228	242	254	172	1,153	1,560	2,712
1950	297	306	134	109	324	242	373	327	345	268	203	215	1,289	1,855	3,144
1951	417	232	166	168	348	372	338	315	365	330	325	197	1,501	2,072	3,572
1952	326	158	167	169	217	232	160	212	121	189	127	165	966	1,278	2,244
1953	263	173	148	73	118	140	308	266	201	266	191	114	1,007	1,254	2,261
1954	353	191	162	168	262	227	372	322	353	314	221	79	1,158	1,866	3,024
1955	472	319	182	175	367	232	340	112	248	335	64	191	1,380	1,657	3,037
1956	392	208	168	216	375	233	372	273	293	217	199	334	1,348	1,929	3,277
1957	385	201	159	228	241	233	343	273	240	208	237	277	1,307	1,716	3,024
1958	308	215	82	55	104	232	303	118	146	103	263	290	1,178	1,041	2,220
1959	300	220	93	107	231	317	367	334	297	317	227	247	1,310	1,746	3,056
1960	377	180	209	246	356	230	369	270	238	193	127	242	1,119	1,918	3,037
1961	328	180	170	153	233	227	316	257	353	276	192	307	1,283	1,709	2,992
1962	318	232	141	80	156	230	322	266	229	129	76	119	874	1,423	2,297
1963	270	167	168	159	225	254	335	262	247	191	243	98	969	1,651	2,620
1964	247	167	163	183	294	226	334	333	265	329	100	215	1,059	1,796	2,855
1965	414	220	166	176	242	230	291	265	177	201	159	240	1,234	1,547	2,780
1966	301	190	174	172	233	229	217	245	116	183	95	216	985	1,386	2,371
1967	317	172	149	144	178	260	335	331	355	266	87	301	1,142	1,752	2,894
1968	350	181	161	210	308	228	356	322	359	347	300	169	1,347	1,945	3,291
1969	345	168	160	160	233	233	330	273	132	163	272	277	1,226	1,522	2,748
1970	218	151	146	179	226	233	100	270	120	282	64	119	834	1,275	2,109
1971	208	237	111	71	89	234	322	312	297	308	175	201	1,129	1,436	2,565
1972	404	237	170	178	206	226	328	256	294	322	301	377	1,641	1,657	3,298
1973	445	278	164	165	216	223	107	229	302	151	63	147	1,084	1,408	2,492
1974	207	198	89	56	112	224	351	328	345	316	171	226	1,119	1,506	2,625
1975	438	280	165	98	142	229	333	272	220	144	103	156	1,121	1,460	2,581
1976	356	168	170	166	312	383	366	331	357	325	236	57	1,141	2,085	3,226
1977	418	309	173	165	116	114	310	272	155	252	75	153	1,206	1,304	2,511
1978	301	188	62	59	118	229	329	106	145	197	94	93	873	1,048	1,921

Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	3424	2300	2300	3499	3069	2841	1700	1700	6601	5622
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	4000	2623	2036	3588	5044
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	2300	3425	5521	1700	2440	4036
1933	6092	4666	3449	3134	2994	2807	6362	4200	6557	6600	6599	6601	2744	5870	1700	2176	1926	3651
1934	12815	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	2799	2752	4974	4338
1936	6563	6695	3694	3526	2977	2676	2504	3023	4474	2300	5709	4288	4000	5235	6600	5515	4189	3173
1937	4584	3176	4048	3222	2833	1667	2473	3964	4162	2300	4625	4458	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	6000	2300	3758	2300	6600	6386	6217	5112	4026	5514
1939	6182	5037	3894	4384	2366	1400	2300	2808	6000	5499	4500	4500	4000	3435	3000	3057	6600	5233
1940	1851	4828	3568	3894	2871	1757	3195	4200	6000	6085	4501	4500	3305	2000	3000	3000	6600	1690
1941	3092	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	6000	2300	6600	6058	2300	2000	1700	1700	1786	1399
1943	3892	3464	3045	2180	2995	1731	1800	4200	6000	5470	2300	3794	4000	6600	5006	4958	1761	4464
1944	11796	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	1938
1946	4720	3151	5850	5850	3133	2495	3531	1800	6000	5500	4500	4500	4000	4683	6600	6600	4104	3565
1947	7742	6366	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	5360
1948	5465	4330	2949	2818	3300	3300	4500	4200	6000	3921	4500	3732	4000	2840	6445	6599	6600	8754
1949	5943	5268	3971	3899	3300	3000	4500	4200	6000	3972	4500	4500	6616	4001	6599	4819	5663	2320
1950	6624	5346	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	4709	6603	2724	2645	8934
1951	13759	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6600	4128	4762
1952	8185	5624	3669	2712	3301	3301	4045	4156	2911	4368	2300	2300	4001	4000	3000	3000	4275	3223
1953	6245	4415	3726	3293	2901	1452	2174	2535	5923	5500	4501	3009	4000	6600	6240	2186	3897	1622
1954	10521	5804	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	6600	6480	5674	4310	1752	3004
1955	16281	10801	6853	5779	3701	3284	7587	4200	6000	2300	4500	4500	6604	6599	1700	1700	4382	4705
1956	10446	8626	5086	3263	3300	4714	7713	4201	6600	5500	6196	5154	2994	6600	2345	6600	6599	8146
1957	11146	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1200	2037	4200	5581	2588	2300	3200	2300	2000	4582	6600	5604	6566
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6600	3146	6028	5050
1960	9655	8285	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	1700	6667	4094
1961	8041	5897	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	5947	1700	6600	6600	7635
1962	7315	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	3918	2300	3308	1700	1976	1705	4449
1963	5389	5277	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3423	3000	6600	2458	2580
1964	5296	4311	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	1700	3081	6600	3389
1965	13569	8020	5029	3803	3300	3370	4500	4200	5278	5500	4499	2300	4252	4000	3000	3819	6568	3696
1966	7322	5065	4552	3268	3300	3300	4475	4200	3974	4952	2300	2300	4000	3589	3000	1700	5039	4208
1967	7227	5551	3977	2975	2983	2907	3364	5017	6000	6600	6599	6600	6232	4631	1700	2766	5372	10459
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	6600	5478	4075	4166
1969	10085	5804	3825	2964	3300	3000	4500	4200	6000	5500	2883	2300	2980	3999	6601	5162	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	1925	5500	2300	2300	6600	4466	1700	1700	2691	3618
1971	5000	3517	5439	3542	2303	1400	1800	4200	6001	6600	4500	6601	6600	6220	6600	2041	6131	2993
1972	7941	13037	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	2068	4569	6600	4627	3528	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6601	6284	1700	3632	7635
1975	13032	11016	7371	4371	3300	1813	2792	4200	6000	5500	4500	3921	4000	2000	3514	1700	5775	1832
1976	12705	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	6600	6601	3785	1449	2233
1977	11085	10743	7950	5196	3506	3000	2250	2163	5578	5509	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	2300	2300	3597	4000	4001	2688	1700	3261	2060

Date of Refill June 30 -- Target Refill Elevation 1601.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1545.8	1534.8	1529.2	1520.8	1513.8	1514.0	1533.0	1563.8	1575.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1546.8	1558.6	1574.1	1588.1	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1491.0	1506.8	1529.0	1553.8	1581.6	1601.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1476.5	1475.4	1475.0	1502.6	1530.7	1569.9	1601.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1547.2	1570.3	1590.1	1601.5
1936	1602.5	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1553.3	1543.3	1528.6	1516.1	1509.3	1533.2	1548.7	1572.1	1591.5	1601.5
1937	1601.5	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.3	1516.6	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1550.2	1543.5	1538.5	1538.6	1522.8	1526.6	1530.0	1562.3	1585.1	1601.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1533.2	1552.5	1577.2	1580.1	1587.4
1940	1601.0	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1538.8	1534.9	1536.8	1547.1	1560.5	1578.8	1579.1	1587.8
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1565.4	1558.9	1540.9	1520.8	1523.8	1532.5	1540.3	1564.9	1584.3	1596.6
1943	1601.5	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1553.1	1528.2	1526.6	1520.8	1529.5	1536.0	1534.9	1553.1	1582.1	1601.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1596.7
1946	1601.5	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1550.1	1522.8	1513.7	1502.7	1496.0	1504.9	1528.7	1562.5	1584.3	1601.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1601.5
1948	1602.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1534.2	1521.4	1511.4	1500.7	1511.3	1504.4	1547.9	1593.3	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1515.3	1504.5	1493.7	1479.7	1500.5	1534.2	1567.1	1587.8	1601.5
1950	1602.5	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1475.0	1475.3	1519.3	1567.9	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1563.9	1583.4	1601.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1549.6	1532.3	1527.9	1523.7	1518.9	1531.2	1546.6	1577.8	1591.5	1601.5
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.5	1551.4	1541.6	1537.2	1528.8	1523.6	1533.7	1563.6	1583.9	1601.5
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1488.3	1475.0	1490.3	1537.8	1569.2	1601.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1557.5	1546.3	1533.8	1520.0	1501.1	1510.8	1539.3	1577.0	1601.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1475.7	1475.4	1489.5	1517.7	1566.4	1592.3	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1548.5	1548.1	1547.8	1543.1	1543.1	1548.1	1559.2	1590.3	1600.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.6	1550.7	1576.1	1601.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1566.0	1586.3	1601.5
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1504.0	1520.3	1550.5	1587.2	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1530.4	1533.1	1540.5	1547.0	1566.3	1585.1	1601.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1554.0	1554.6	1569.6	1588.1	1601.5
1964	1602.5	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1507.0	1536.5	1576.5	1601.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1555.7	1542.2	1537.2	1537.5	1530.2	1539.2	1550.2	1571.3	1587.9	1601.5
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1554.7	1530.2	1526.5	1527.6	1536.1	1536.2	1559.1	1578.4	1589.3	1601.5
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1512.5	1490.8	1475.0	1497.2	1537.7	1572.3	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1531.6	1551.2	1582.2	1601.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1513.8	1513.6	1518.5	1524.8	1540.0	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1562.4	1541.3	1540.2	1538.2	1524.3	1513.7	1523.8	1554.6	1585.4	1601.5
1971	1601.7	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1548.9	1538.0	1529.5	1509.1	1487.8	1475.0	1516.8	1557.2	1577.0	1601.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1571.0	1551.6	1534.7	1520.8	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1476.4	1485.8	1519.6	1563.2	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1508.2	1494.6	1498.3	1515.1	1544.5	1574.8	1598.8
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1487.9	1514.4	1543.1	1567.4	1598.6
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1566.7	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1521.9	1519.3	1524.6	1524.0	1523.1	1535.0	1555.1	1583.1	1600.9

Plant ROSS -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1934	86	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	344
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	69	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	124
1952	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
1955	133	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	205
1956	49	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	15	139
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	108
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	37	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	127
1961	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	19
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1965	94	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
1966	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1967	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	45
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	65
1969	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	13	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	192
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
1976	78	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	100
1977	58	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1934	102	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	380
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	87	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	26	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	43
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	170
1952	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
1953	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1954	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
1955	154	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	270
1956	67	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	21	170
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	126
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	55	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	150
1961	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	44
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	114	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
1966	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1967	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	74
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	69
1969	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	29	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	245
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
1976	101	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	133
1977	76	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 2 - REFILL TO 1592.0 ON JUNE 30
INTERIM FISHERIES AGREEMENT

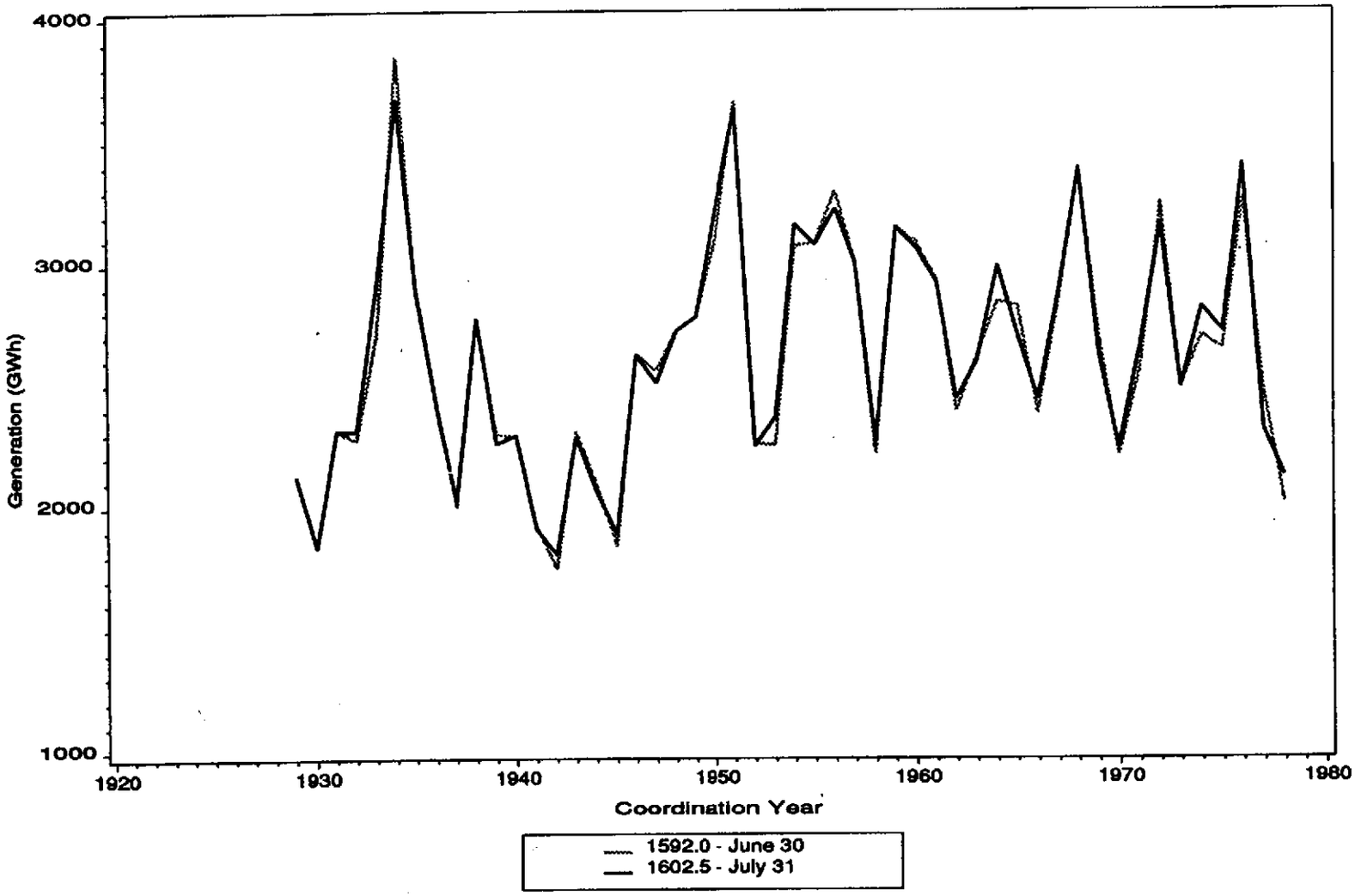
Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1592.0

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1592.0 - June 30	1602.5 - July 31	1592.0 - June 30	1602.5 - July 31	1592.0 - June 30
1929	812	830	1,311	1,296	2,123	2,126
1930	766	790	1,067	1,050	1,834	1,839
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	976	1,297	1,297	2,310	2,273
1933	1,015	806	1,898	1,898	2,914	2,705
1934	1,577	1,753	2,095	2,095	3,672	3,848
1935	1,296	1,296	1,589	1,589	2,886	2,886
1936	1,073	1,168	1,341	1,258	2,413	2,426
1937	862	843	1,160	1,160	2,021	2,002
1938	1,396	1,436	1,377	1,322	2,773	2,758
1939	969	1,008	1,288	1,288	2,257	2,296
1940	804	800	1,488	1,488	2,292	2,288
1941	622	646	1,283	1,272	1,905	1,918
1942	406	388	1,398	1,355	1,804	1,744
1943	899	923	1,386	1,386	2,285	2,308
1944	788	882	1,275	1,208	2,064	2,090
1945	728	679	1,157	1,157	1,885	1,836
1946	1,231	1,235	1,388	1,388	2,619	2,623
1947	984	1,034	1,520	1,520	2,504	2,555
1948	1,082	1,089	1,637	1,632	2,719	2,721
1949	1,151	1,151	1,627	1,627	2,779	2,779
1950	1,371	1,253	1,855	1,855	3,225	3,108
1951	1,557	1,586	2,072	2,072	3,628	3,658
1952	816	886	1,432	1,369	2,248	2,255
1953	1,063	951	1,300	1,300	2,363	2,252
1954	1,295	1,207	1,866	1,866	3,161	3,073
1955	1,268	1,339	1,812	1,748	3,080	3,086
1956	1,295	1,365	1,929	1,929	3,224	3,294
1957	1,287	1,287	1,716	1,716	3,004	3,004
1958	1,021	1,075	1,239	1,135	2,260	2,210
1959	1,398	1,403	1,746	1,746	3,144	3,149
1960	1,144	1,169	1,918	1,918	3,062	3,087
1961	1,210	1,220	1,709	1,709	2,919	2,929
1962	997	947	1,440	1,440	2,437	2,387
1963	942	964	1,651	1,651	2,593	2,615
1964	1,194	1,044	1,796	1,796	2,990	2,840
1965	1,056	1,182	1,647	1,638	2,703	2,820
1966	880	901	1,555	1,478	2,436	2,378
1967	1,133	1,097	1,752	1,752	2,884	2,848
1968	1,442	1,443	1,945	1,945	3,386	3,388
1969	997	1,087	1,622	1,606	2,619	2,693
1970	795	836	1,446	1,367	2,241	2,203
1971	1,215	1,120	1,436	1,436	2,650	2,556
1972	1,506	1,589	1,657	1,657	3,164	3,246
1973	1,014	1,084	1,472	1,406	2,485	2,491
1974	1,312	1,193	1,506	1,506	2,817	2,699
1975	1,241	1,166	1,476	1,476	2,717	2,642
1976	1,315	1,181	2,085	2,085	3,400	3,267
1977	903	1,173	1,413	1,304	2,316	2,477
1978	936	916	1,184	1,097	2,120	2,013

Synergic Resources Corporation -- 16NOV89

Annual Energy Production: Base Case vs. Early Refill

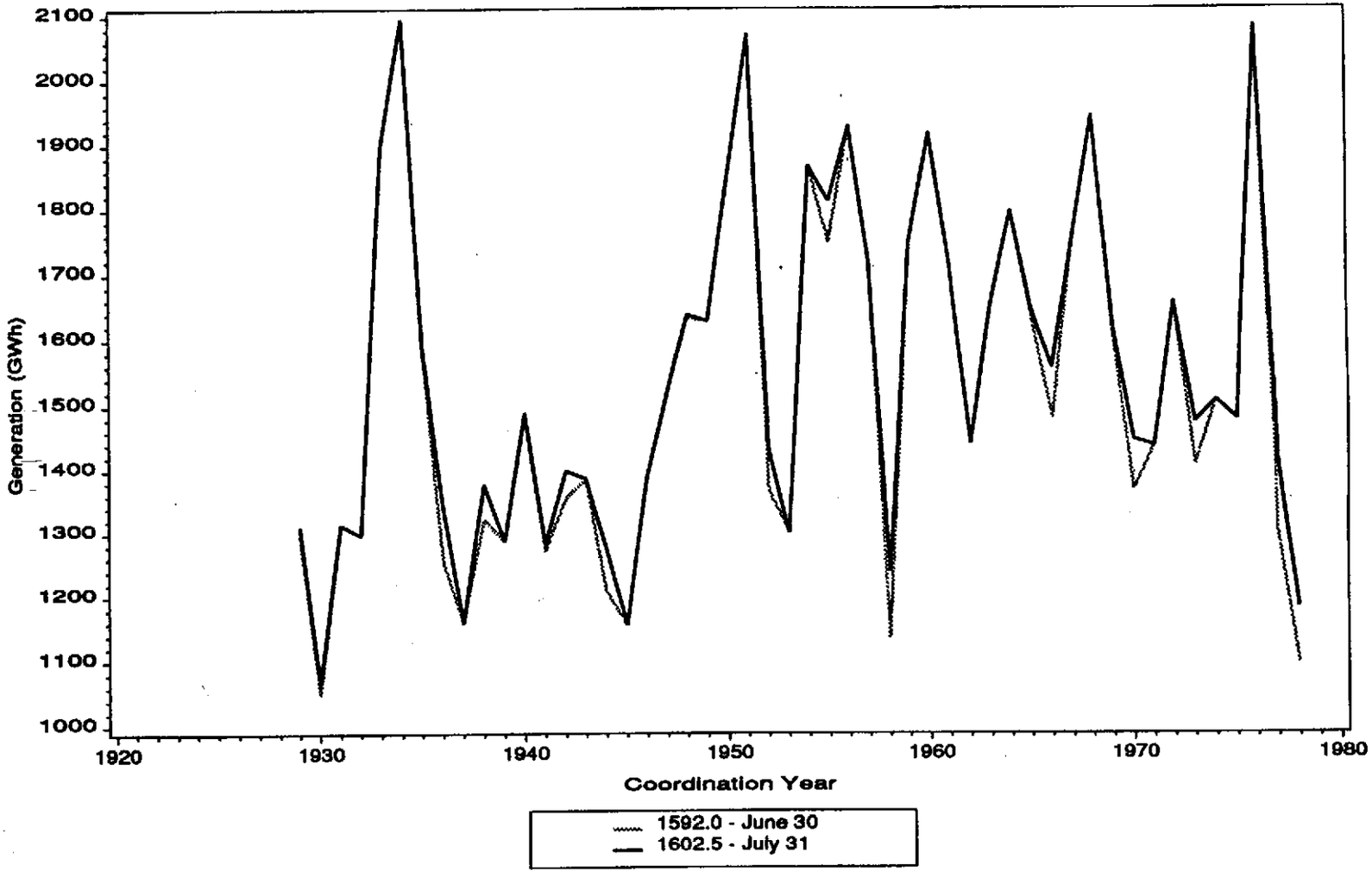
July 31 at 1602.5 vs. June 30 at 1592.0



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1592.0

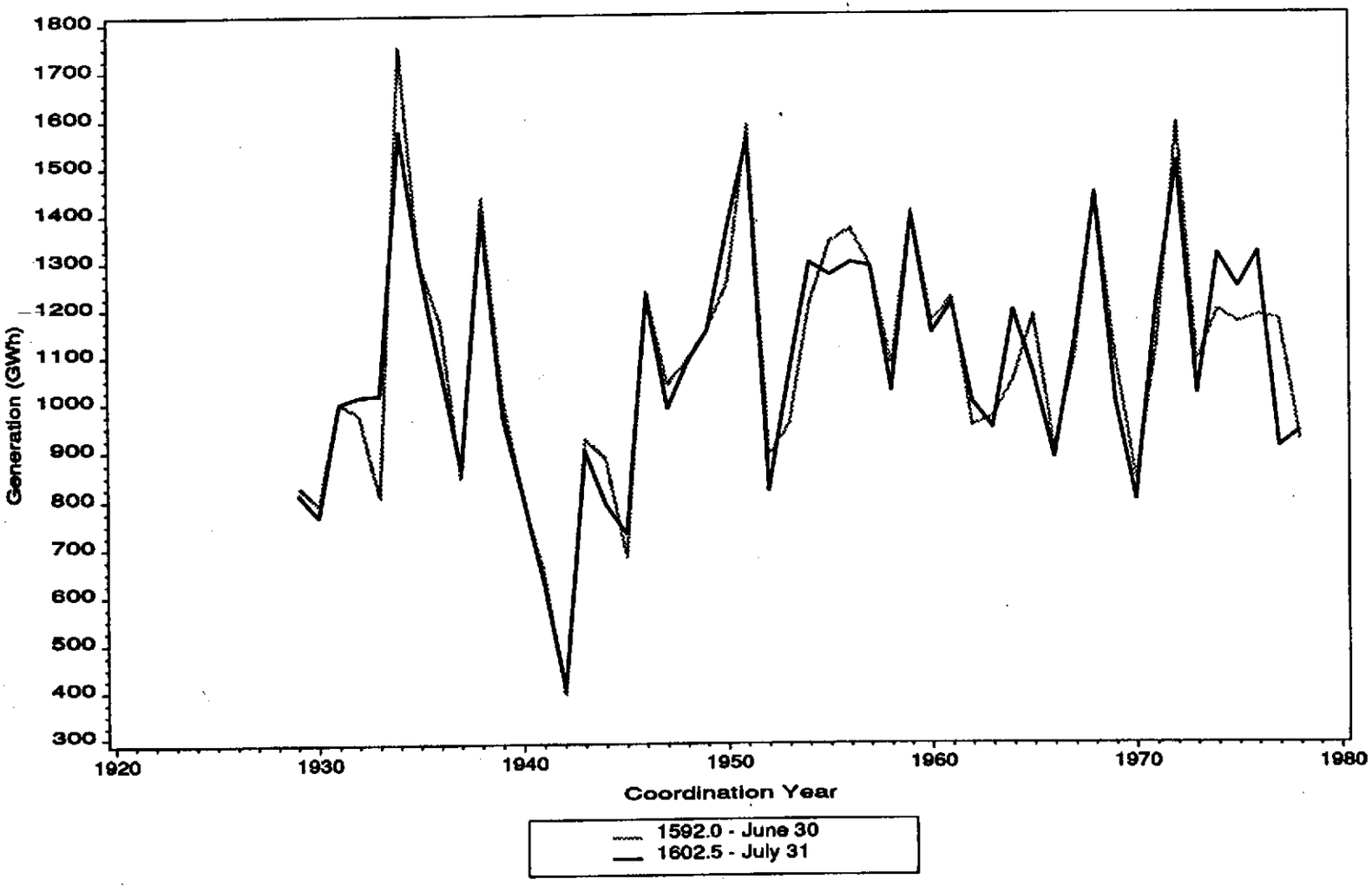
Energy Season=Winter



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1592.0

Energy Season=Summer



Synergic Resources Corporation -- 17NOV89

Date of Refill June 30 -- Target Refill Elevation 1592

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	286	112	118	101	61	281	830	1,296	2,126
1930	168	151	67	65	129	198	207	123	260	189	147	135	790	1,050	1,839
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	173	138	187	976	1,297	2,273
1933	171	163	157	148	322	229	369	331	342	196	167	109	806	1,898	2,705
1934	393	270	163	249	358	295	360	326	345	320	397	373	1,753	2,095	3,848
1935	305	314	92	78	238	227	345	324	287	300	136	242	1,296	1,589	2,886
1936	304	184	146	145	137	166	294	137	234	175	276	228	1,168	1,258	2,426
1937	113	186	144	87	136	215	306	111	161	169	63	312	843	1,160	2,002
1938	302	320	116	101	193	222	328	191	171	237	330	247	1,436	1,322	2,758
1939	184	224	114	68	121	148	326	275	236	189	131	281	1,008	1,288	2,296
1940	154	193	149	83	163	217	338	302	235	195	131	128	800	1,488	2,288
1941	122	165	59	124	141	117	334	229	269	231	70	58	646	1,272	1,918
1942	56	101	54	42	236	223	342	153	304	98	66	67	388	1,355	1,744
1943	157	126	157	93	88	225	326	268	229	245	178	217	923	1,386	2,308
1944	362	190	154	81	118	230	216	170	239	165	66	99	882	1,208	2,090
1945	254	152	87	63	111	238	304	181	173	114	55	104	679	1,157	1,836
1946	142	321	157	122	183	94	332	269	232	202	308	263	1,235	1,388	2,623
1947	260	166	173	162	138	228	329	261	229	185	142	283	1,034	1,520	2,555
1948	211	146	171	158	242	228	334	270	229	157	285	289	1,089	1,632	2,721
1949	266	196	166	158	246	236	334	264	222	176	247	266	1,151	1,627	2,779
1950	205	306	134	109	324	242	373	327	345	268	292	182	1,253	1,855	3,108
1951	403	232	166	168	348	372	338	315	365	330	325	296	1,586	2,072	3,658
1952	253	158	167	169	217	232	257	209	118	185	126	164	886	1,369	2,255
1953	161	173	148	73	118	140	313	266	243	263	226	128	951	1,300	2,252
1954	311	191	162	168	262	227	372	322	353	314	305	85	1,207	1,866	3,073
1955	432	319	182	175	367	232	340	206	245	263	99	225	1,339	1,748	3,086
1956	350	208	168	216	375	233	372	273	293	217	282	309	1,365	1,929	3,294
1957	364	201	159	228	241	233	343	273	240	208	237	277	1,287	1,716	3,004
1958	308	215	82	55	104	232	326	190	145	102	219	232	1,075	1,135	2,210
1959	300	220	93	107	231	317	367	334	297	317	321	245	1,403	1,746	3,149
1960	328	180	209	246	356	230	369	270	238	193	165	304	1,169	1,918	3,087
1961	251	180	170	153	233	227	316	257	353	276	225	288	1,220	1,709	2,929
1962	314	232	141	80	156	230	322	266	245	191	91	118	947	1,440	2,387
1963	165	167	168	159	225	254	335	262	247	207	243	182	964	1,651	2,615
1964	143	167	163	183	294	226	334	333	265	329	191	213	1,044	1,796	2,840
1965	374	220	166	176	242	230	332	264	229	191	134	263	1,182	1,638	2,820
1966	223	190	174	172	233	229	314	242	113	180	94	214	901	1,478	2,378
1967	225	172	149	144	178	260	335	331	355	266	177	257	1,097	1,752	2,848
1968	350	181	161	210	308	228	356	322	359	347	332	233	1,443	1,945	3,388
1969	301	168	160	160	233	233	330	273	217	166	175	277	1,087	1,606	2,693
1970	218	151	146	179	226	233	198	267	118	188	77	202	836	1,367	2,203
1971	105	237	111	71	89	234	322	312	297	308	262	208	1,120	1,436	2,556
1972	352	237	170	178	206	226	328	256	294	322	301	377	1,589	1,657	3,246
1973	445	278	164	165	216	223	207	226	205	151	63	147	1,084	1,406	2,491
1974	207	198	89	56	112	224	351	328	345	316	201	271	1,193	1,506	2,699
1975	409	280	165	98	142	229	333	272	236	175	127	175	1,166	1,476	2,642
1976	316	168	170	166	312	383	366	331	357	325	314	58	1,181	2,085	3,267
1977	384	309	173	165	116	114	334	247	155	252	75	153	1,173	1,304	2,477
1978	301	188	62	59	118	229	329	119	180	195	101	130	916	1,097	2,013

Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1592

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	5146	2300	2300	2300	2300	2000	1700	1700	6601	4952
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	3999	4000	3000	3000	2460	3367
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	4000	4000	3246	3000	4616	4048
1933	5000	2337	3449	3134	2994	2807	6362	4200	6557	6600	6599	6601	2744	5870	4786	2625	1926	3664
1934	9239	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	3000	3000	5000	5373
1936	5850	5932	3694	3526	2977	2676	2504	3023	5325	2771	4500	4500	4000	4000	6600	5120	5000	5001
1937	3436	1779	4048	3222	2833	1667	2473	3964	5489	2300	2300	4067	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	6000	3870	4379	2300	5852	4001	6599	6599	5225	5502
1939	5000	2792	3894	4384	2366	1400	2300	2808	6000	5499	4500	4500	4000	4000	3000	3000	6600	4729
1940	4161	2662	3568	3894	2871	1757	3195	4200	6000	6085	4501	4500	4000	4001	3000	3000	4364	1497
1941	2825	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	6000	3097	6600	4663	2300	2000	1700	1700	2052	1731
1943	4374	2451	3045	2180	2995	1731	1800	4200	6000	5500	4500	4500	4000	6474	3000	4448	4986	4481
1944	8220	8021	4560	2910	2995	1627	2226	4199	3957	3487	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	3675
1946	4064	2138	5850	5850	3133	2495	3531	1800	6000	5500	4500	4500	4000	4683	6600	6600	6600	4645
1947	5849	4788	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	6600
1948	5000	3603	2949	2818	3300	3300	4500	4200	6000	5500	4500	4320	4000	2850	5815	6599	6600	6600
1949	5850	4605	3971	3899	3300	3000	4500	4200	6000	5500	4500	4500	4000	4001	6599	4598	6333	5000
1950	5000	3727	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	4709	6654	6038	2645	6600
1951	12507	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6600	6600	5866
1952	5974	4344	3669	2712	3301	3301	4045	4156	4642	4363	2300	2300	4001	4000	3000	3000	4247	3260
1953	4891	2332	3726	3293	2901	1452	2174	2535	6000	5500	4501	4500	4000	6600	4935	4612	4445	1619
1954	6945	5804	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	6600	6480	6600	6601	1752	3211
1955	12705	10801	6853	5779	3701	3284	7587	4200	6000	4158	4500	4500	4000	6599	3090	1700	5730	4679
1956	6870	8626	5086	3263	3300	4714	7713	4201	6600	5500	6196	5154	2994	6600	5726	6600	6599	6600
1957	9311	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1200	2037	4200	6000	4033	2300	3208	2300	2000	3000	6600	5000	5178
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6600	6473	6047	5058
1960	6079	8285	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	3000	6600	6351
1961	5849	4599	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	5947	3000	6600	6600	6600
1962	7050	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	4501	4000	4000	1700	2531	1705	4419
1963	3774	3438	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3999	3000	6600	5000	3038
1964	3793	2367	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	3480	4773	6600	3381
1965	9993	8020	5029	3803	3300	3370	4500	4200	6000	5500	4499	4178	4000	4000	3000	3000	5801	5298
1966	5000	4238	4552	3268	3300	3300	4475	4200	5706	4949	2300	2300	4000	3592	3000	1700	5000	4248
1967	5000	4286	3977	2975	2983	2907	3364	5017	6000	6600	6599	6600	6601	4262	2984	4914	5366	6890
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	6600	6600	6463	4157
1969	6509	5804	3825	2964	3300	3000	4500	4200	6000	5500	4500	3920	3212	3999	3671	4556	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	3651	5500	2300	2300	5594	2000	1700	2145	5001	4315
1971	2691	2329	5439	3542	2303	1400	1800	4200	6001	6600	4500	6601	6600	6220	6600	5077	6461	3001
1972	5850	11644	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	3811	4553	3544	4143	3528	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6601	6600	2502	6055	6600
1975	10473	11016	7371	4371	3300	1813	2792	4200	6000	5500	4500	4500	4000	3286	4501	1700	6486	1832
1976	9102	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	6600	6601	6600	1483	2233
1977	8048	10743	7950	5196	3506	3000	2250	2163	6000	5042	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	2569	2734	4501	4000	4001	3000	1700	4633	2060

Date of Refill June 30 -- Target Refill Elevation 1592

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1533.5	1520.9	1514.6	1511.5	1507.5	1511.3	1530.6	1561.8	1573.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1527.4	1542.2	1552.7	1565.8	1583.6	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1481.0	1494.9	1529.0	1549.2	1571.4	1592.0
1933	1596.0	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1476.5	1475.4	1475.0	1485.1	1516.2	1559.2	1592.0
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1546.5	1568.9	1588.8	1597.5
1936	1600.4	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1547.5	1534.1	1522.7	1509.3	1501.5	1531.7	1547.4	1572.1	1589.3	1594.5
1937	1597.6	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1531.2	1518.1	1514.9	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1550.2	1533.2	1525.1	1525.2	1511.3	1524.9	1526.7	1554.7	1575.2	1592.0
1939	1596.2	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1531.2	1550.6	1575.7	1578.7	1587.4
1940	1594.9	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1538.8	1534.9	1534.3	1538.0	1551.7	1570.9	1577.9	1587.1
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1565.4	1554.0	1535.6	1520.8	1523.8	1532.5	1540.3	1564.9	1583.6	1595.0
1943	1598.7	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1553.1	1528.0	1517.3	1508.5	1517.2	1525.0	1531.7	1552.0	1572.0	1592.0
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1560.3	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1592.0
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1550.1	1522.8	1513.7	1502.7	1496.0	1504.9	1528.7	1562.5	1577.6	1592.0
1947	1598.1	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1598.3
1948	1600.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1522.7	1509.3	1493.6	1479.9	1493.4	1488.0	1538.0	1585.3	1600.5
1949	1600.7	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1502.8	1488.7	1477.0	1478.3	1499.2	1533.4	1567.1	1586.0	1592.6
1950	1598.0	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1475.0	1475.0	1504.0	1557.0	1599.3
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1563.9	1576.6	1592.0
1952	1599.0	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1537.6	1518.0	1513.3	1509.1	1503.6	1516.7	1534.3	1567.2	1582.0	1592.0
1953	1596.7	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.0	1550.9	1541.1	1530.9	1521.6	1516.5	1532.1	1554.0	1573.9	1592.0
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1488.3	1475.0	1484.9	1525.1	1559.1	1592.0
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1546.1	1534.4	1520.1	1516.5	1496.2	1500.4	1531.2	1566.3	1592.0
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1475.7	1475.4	1489.5	1503.1	1556.0	1583.2	1597.7
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1545.6	1536.0	1535.7	1530.5	1530.5	1536.0	1552.6	1585.0	1596.8	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.6	1538.9	1565.5	1592.0
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1561.9	1582.8	1592.0
1961	1598.9	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1504.0	1514.9	1546.2	1583.7	1601.8
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1527.9	1524.0	1529.6	1536.8	1555.1	1575.1	1592.0
1963	1597.4	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1552.1	1552.7	1567.9	1579.7	1592.0
1964	1597.1	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1498.1	1522.7	1565.8	1592.0
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1550.8	1537.0	1531.8	1524.2	1516.9	1527.2	1539.5	1564.3	1583.6	1593.0
1966	1600.3	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1542.9	1515.6	1511.9	1512.9	1522.2	1522.4	1547.3	1567.8	1579.8	1592.0
1967	1599.0	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1512.5	1488.6	1475.0	1489.7	1524.1	1561.7	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1531.6	1547.3	1572.0	1592.0
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1507.0	1498.1	1503.1	1510.1	1537.7	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1550.9	1528.4	1526.9	1524.7	1513.8	1513.3	1523.4	1552.7	1577.6	1592.0
1971	1598.4	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1548.9	1538.0	1529.5	1509.1	1487.8	1475.0	1516.8	1546.5	1566.4	1592.0
1972	1598.7	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1560.3	1539.8	1532.8	1520.8	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1476.4	1483.9	1514.8	1551.7	1595.8
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1505.2	1490.9	1487.1	1502.4	1534.5	1564.1	1589.1
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1487.9	1514.4	1532.6	1558.2	1590.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1564.1	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1519.8	1515.5	1516.8	1516.2	1515.3	1526.6	1547.8	1573.0	1591.3

Plant ROSS -- Date of Refill June 30 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill June 30 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1934	33	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	291
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	15	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	79	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	106
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	79	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	152
1956	0	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	0	75
1957	31	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	81
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	90
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1965	40	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	65
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	156
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	49	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
1976	24	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	45
1977	13	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	49	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	326
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	33	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	98	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	151
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1955	101	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	216
1956	13	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	0	95
1957	50	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	98
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	1	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	96
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	60	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	69
1969	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	90	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	194
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	67	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
1976	47	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	79
1977	31	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 3 - REFILL TO 1601.5 ON JUNE 15
INTERIM FISHERIES AGREEMENT

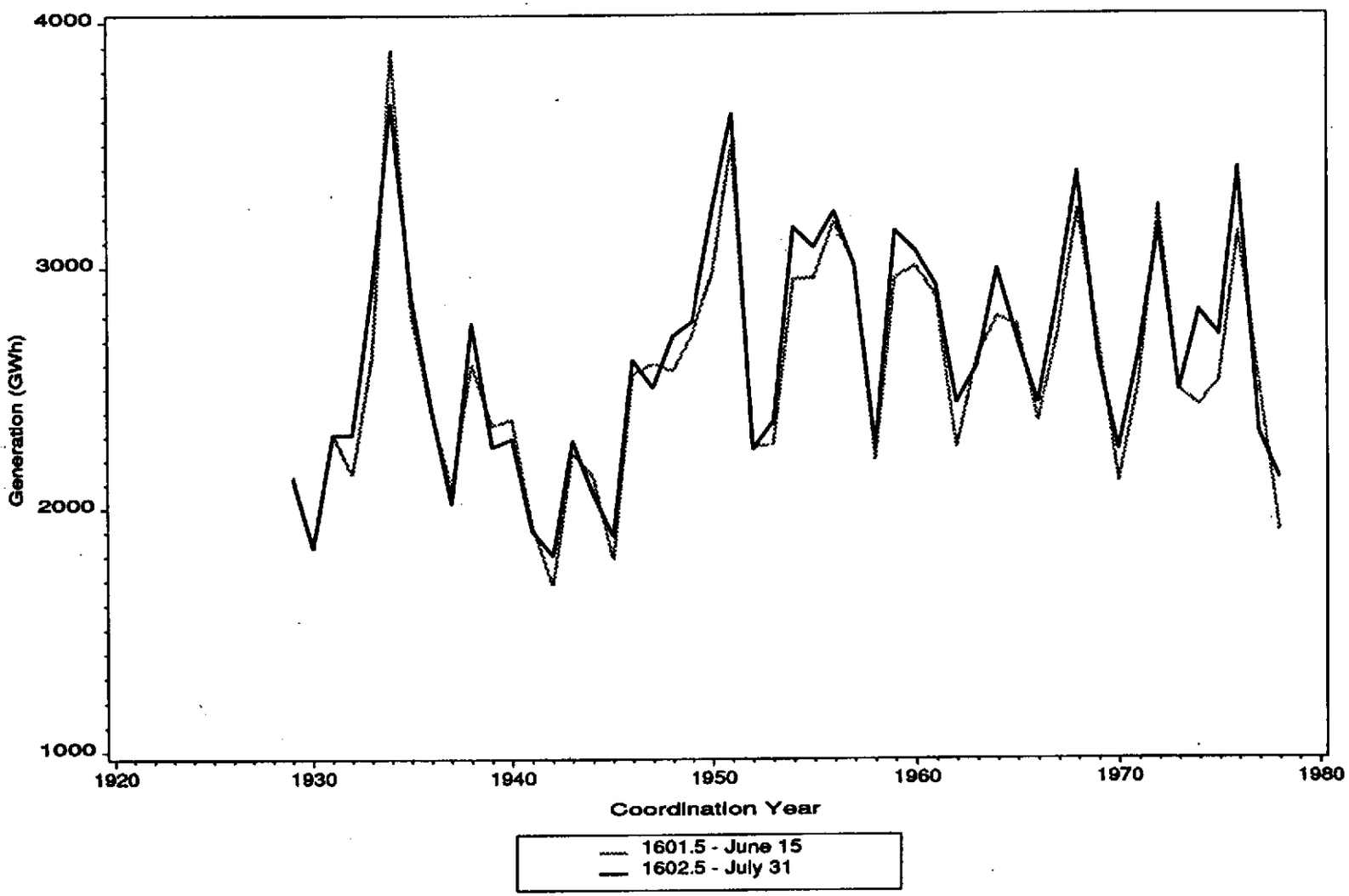
Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1601.5

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1601.5 - June 15	1602.5 - July 31	1601.5 - June 15	1602.5 - July 31	1601.5 - June 15
1929	812	892	1,311	1,239	2,123	2,131
1930	766	798	1,067	1,050	1,834	1,848
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	848	1,297	1,294	2,310	2,142
1933	1,015	953	1,898	1,683	2,914	2,636
1934	1,577	1,797	2,095	2,095	3,672	3,892
1935	1,296	1,223	1,589	1,589	2,886	2,813
1936	1,073	1,214	1,341	1,187	2,413	2,401
1937	862	929	1,160	1,160	2,021	2,089
1938	1,396	1,437	1,377	1,169	2,773	2,605
1939	969	1,075	1,288	1,274	2,257	2,349
1940	804	1,007	1,488	1,366	2,292	2,373
1941	622	654	1,283	1,272	1,905	1,926
1942	406	384	1,398	1,297	1,804	1,681
1943	899	1,128	1,386	1,101	2,285	2,228
1944	788	925	1,275	1,209	2,064	2,134
1945	728	630	1,157	1,157	1,885	1,787
1946	1,231	1,384	1,388	1,171	2,619	2,555
1947	984	1,230	1,520	1,374	2,504	2,604
1948	1,082	1,208	1,637	1,366	2,719	2,574
1949	1,151	1,345	1,627	1,383	2,779	2,727
1950	1,371	1,191	1,855	1,780	3,225	2,971
1951	1,557	1,432	2,072	2,072	3,628	3,504
1952	816	1,135	1,432	1,121	2,248	2,256
1953	1,063	1,169	1,300	1,099	2,363	2,268
1954	1,295	1,261	1,866	1,688	3,161	2,948
1955	1,268	1,418	1,812	1,534	3,080	2,952
1956	1,295	1,426	1,929	1,756	3,224	3,182
1957	1,287	1,354	1,716	1,657	3,004	3,011
1958	1,021	1,319	1,239	882	2,260	2,201
1959	1,398	1,360	1,746	1,594	3,144	2,954
1960	1,144	1,225	1,918	1,775	3,062	3,000
1961	1,210	1,248	1,709	1,628	2,919	2,876
1962	997	986	1,440	1,265	2,437	2,251
1963	942	1,044	1,651	1,583	2,593	2,628
1964	1,194	1,118	1,796	1,676	2,990	2,795
1965	1,056	1,337	1,647	1,428	2,703	2,764
1966	880	1,206	1,555	1,154	2,436	2,360
1967	1,133	1,196	1,752	1,537	2,884	2,733
1968	1,442	1,284	1,945	1,945	3,386	3,228
1969	997	1,315	1,622	1,391	2,619	2,706
1970	795	993	1,446	1,114	2,241	2,106
1971	1,215	1,217	1,436	1,308	2,650	2,526
1972	1,506	1,741	1,657	1,511	3,164	3,251
1973	1,014	1,150	1,472	1,344	2,485	2,494
1974	1,312	984	1,506	1,439	2,817	2,423
1975	1,241	1,296	1,476	1,237	2,717	2,533
1976	1,315	1,121	2,085	2,017	3,400	3,138
1977	903	1,223	1,413	1,304	2,316	2,528
1978	936	1,036	1,184	867	2,120	1,903

Synergic Resources Corporation -- 16NOV89

Annual Energy Production: Base Case vs. Early Refill

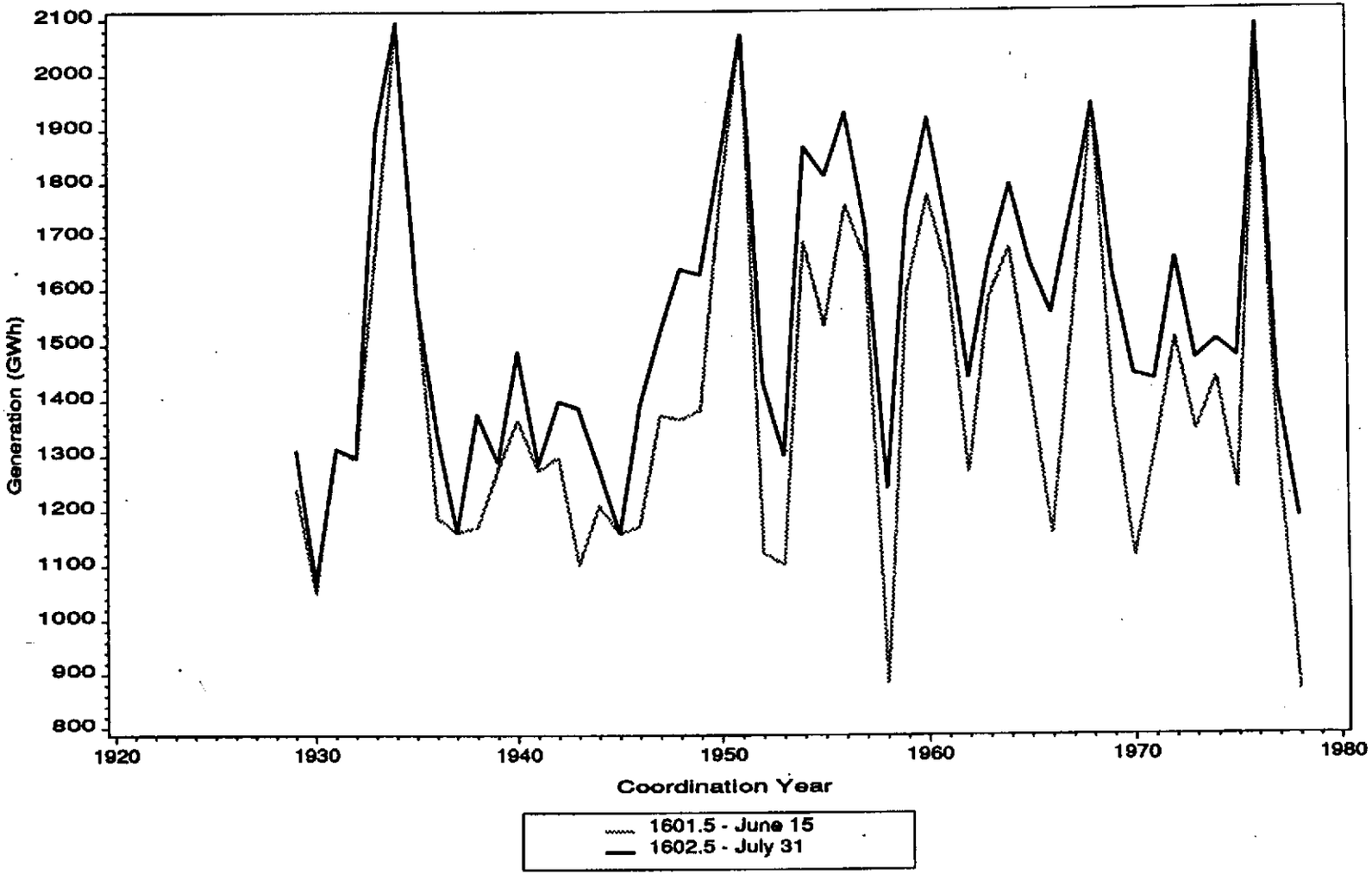
July 31 at 1602.5 vs. June 15 at 1601.5



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1601.5

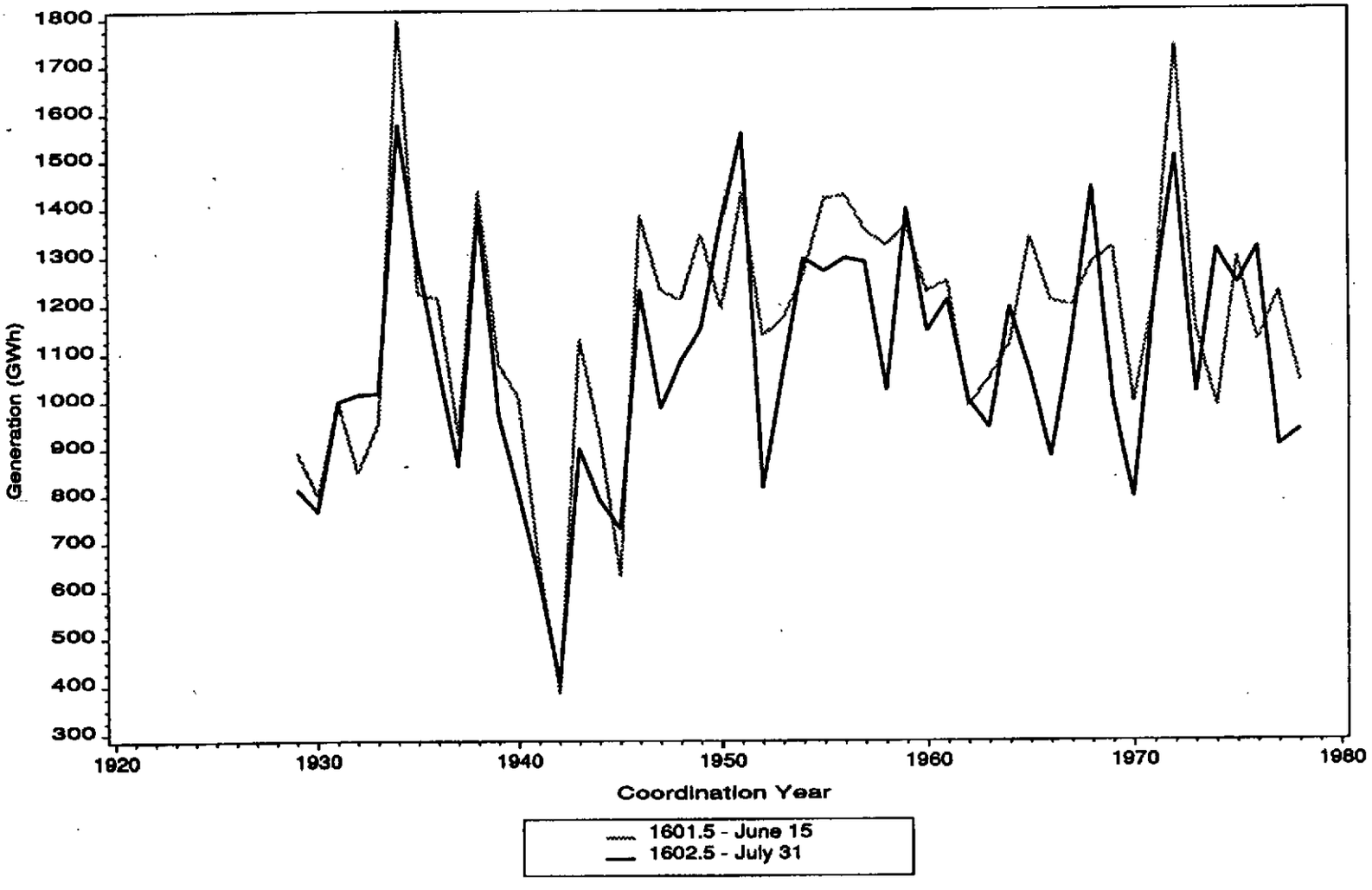
Energy Season=Winter



Synergic Resources Corporation – 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1601.5

Energy Season=Summer



Synergic Resources Corporation -- 17NOV89

Date of Refill June 15 -- Target Refill Elevation 1601.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	104	115	239	144	61	300	892	1,239	2,131
1930	168	151	67	65	129	198	207	123	260	128	74	278	798	1,050	1,848
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	195	82	61	227	848	1,294	2,142
1933	282	163	157	148	322	229	369	331	126	154	69	284	953	1,683	2,636
1934	437	270	163	249	358	295	360	326	345	320	397	373	1,797	2,095	3,892
1935	305	314	92	78	238	227	345	324	287	300	63	243	1,223	1,589	2,813
1936	343	184	146	145	137	166	122	116	356	170	255	261	1,214	1,187	2,401
1937	199	186	144	87	136	215	232	112	234	169	63	312	929	1,160	2,089
1938	302	320	116	101	193	222	307	112	117	195	296	324	1,437	1,169	2,605
1939	294	224	114	68	121	148	326	228	268	92	127	337	1,075	1,274	2,349
1940	229	193	149	83	163	217	338	302	113	107	180	298	1,007	1,366	2,373
1941	130	165	59	124	141	117	334	229	269	231	70	58	654	1,272	1,926
1942	56	101	54	42	236	223	264	113	364	99	67	62	384	1,297	1,681
1943	229	126	157	93	88	225	291	108	139	327	184	261	1,128	1,101	2,228
1944	406	190	154	81	118	230	138	248	239	165	66	99	925	1,209	2,134
1945	254	152	87	63	111	238	304	181	173	114	55	55	630	1,157	1,787
1946	192	321	157	122	183	94	332	119	164	182	317	372	1,384	1,171	2,555
1947	342	166	173	162	138	228	280	263	130	224	208	290	1,230	1,374	2,604
1948	259	146	171	158	242	228	334	111	122	100	279	424	1,208	1,366	2,574
1949	289	196	166	158	246	236	219	111	246	311	200	349	1,345	1,383	2,727
1950	305	306	134	109	324	242	373	327	271	99	144	338	1,191	1,780	2,971
1951	417	232	166	168	348	372	338	315	365	283	153	347	1,432	2,072	3,504
1952	331	158	167	169	217	232	103	109	123	194	214	239	1,135	1,121	2,256
1953	271	173	148	73	118	140	186	293	141	259	154	312	1,169	1,099	2,268
1954	357	191	162	168	262	227	372	322	175	188	245	279	1,261	1,688	2,948
1955	477	319	182	175	367	232	340	112	126	284	65	273	1,418	1,534	2,952
1956	396	208	168	216	375	233	372	273	120	211	186	426	1,426	1,756	3,182
1957	385	201	159	228	241	233	343	273	181	210	228	330	1,354	1,657	3,011
1958	308	222	82	55	104	232	180	105	122	105	322	363	1,319	882	2,201
1959	300	220	93	107	231	317	367	334	145	326	130	384	1,360	1,594	2,954
1960	381	180	209	246	356	230	369	234	130	168	136	360	1,225	1,775	3,000
1961	332	180	170	153	233	227	228	260	357	202	117	417	1,248	1,628	2,876
1962	318	232	141	80	156	230	322	212	125	106	107	223	986	1,265	2,251
1963	281	167	168	159	225	254	335	262	180	125	215	256	1,044	1,583	2,628
1964	258	167	163	183	294	226	334	333	144	253	65	375	1,118	1,676	2,795
1965	418	220	166	176	242	230	166	269	179	212	149	336	1,337	1,428	2,764
1966	305	190	174	172	233	229	100	127	119	246	178	287	1,206	1,154	2,360
1967	321	172	149	144	178	260	335	331	141	230	65	408	1,196	1,537	2,733
1968	350	181	161	210	308	228	356	322	359	279	107	366	1,284	1,945	3,228
1969	350	168	160	160	233	233	282	202	120	188	241	367	1,315	1,391	2,706
1970	218	151	146	179	226	233	99	109	122	346	65	213	993	1,114	2,106
1971	220	237	111	71	89	234	226	315	262	155	203	402	1,217	1,308	2,526
1972	409	237	170	178	206	226	164	234	334	334	311	449	1,741	1,511	3,251
1973	445	278	164	165	216	223	98	114	363	217	63	147	1,150	1,344	2,494
1974	207	198	89	56	112	224	351	328	279	193	60	326	984	1,439	2,423
1975	438	280	165	98	142	229	333	112	158	287	57	235	1,296	1,237	2,533
1976	372	168	170	166	312	383	366	331	288	163	135	284	1,121	2,017	3,138
1977	434	309	173	165	116	114	291	290	155	252	75	153	1,223	1,304	2,528
1978	301	188	62	59	118	229	179	108	111	249	68	228	1,036	867	1,903

Plant GORGE -- Date of Refill June 15 -- Target Refill Elevation 1601.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	1900	2305	4456	4421	3069	2841	1700	1700	6601	5622
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	3095	1700	1700	5773	5044
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3422	2300	2000	1700	1700	2093	9333
1933	6489	4666	3449	3134	2994	2807	6362	4200	6557	6600	2614	2300	2300	4162	1700	1700	1926	14486
1934	13212	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	1700	1700	2911	8225
1936	6960	6695	3694	3526	2977	2676	2504	3023	2286	2300	6600	6600	2300	5336	6600	4323	4462	6601
1937	4919	3176	4048	3222	2833	1667	2473	3964	4162	2300	4625	4458	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	5620	2300	2300	2300	4475	3543	6016	5706	4655	11264
1939	6579	5037	3894	4384	2366	1400	2300	2808	6000	4580	4327	5745	2300	2000	1730	4002	6600	6601
1940	4256	5002	3568	3894	2871	1757	3195	4200	6000	6085	2300	2300	2660	2000	3753	3859	6600	5213
1941	3092	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	4632	2300	6600	6600	2300	2000	1700	1700	1786	1787
1943	5356	3836	3045	2180	2995	1731	1800	4200	5376	2300	2300	3145	6600	6600	3646	3937	2255	11321
1944	12193	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	1938
1946	4720	3151	5850	5850	3133	2495	3531	1800	6000	2493	2300	3918	5337	2238	6600	6600	6805	10010
1947	8139	6366	3713	3012	3300	3000	2598	4200	5121	5499	2300	2904	4458	4824	5204	3982	4806	7206
1948	5862	4330	2949	2818	3300	3300	4500	4200	6000	2300	2300	2300	2300	2000	4971	6599	13861	12261
1949	5943	5268	3971	3899	3300	3000	4500	4200	3934	2300	6600	2826	6600	6214	6599	2844	7110	7461
1950	7021	5346	5850	5612	2816	2209	6496	4395	6600	6600	5465	4909	2300	2000	3321	3227	3151	21123
1951	13759	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	4851	2908	4050	5508	11146
1952	8582	5624	3669	2712	3301	3301	4045	4156	1900	2300	2300	2300	4001	4000	3000	5853	3419	6599
1953	6632	4415	3726	3293	2901	1452	2174	2535	3773	5963	2968	2300	3553	6600	3972	2894	5132	7819
1954	10918	5804	4384	3329	3300	3300	4964	4200	6600	6600	4366	2300	3239	4324	5319	5030	1907	14378
1955	16678	10801	6853	5779	3701	3284	7587	4200	6000	2300	2300	2300	4360	6599	1700	1700	2731	12750
1956	10843	8626	5086	3263	3300	4714	7713	4201	6600	5500	2300	2300	2300	6600	1700	6600	11014	12010
1957	11146	7901	4134	3931	3300	4946	4509	4387	6000	5500	2878	3916	6600	2000	3253	6600	7850	6105
1958	5851	5851	5577	2939	1842	1200	2037	4200	3405	2300	2300	2300	2300	2000	6600	6600	8786	7360
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	3243	2300	6600	6600	4393	1700	6047	14086
1960	10052	8285	4083	3168	4329	6054	6934	4200	6532	4790	2300	2734	4000	2988	4364	1700	6737	9794
1961	8438	5897	4035	3119	3300	3000	4455	4201	4442	5501	6600	6600	2300	5877	1700	3918	9995	13410
1962	7315	5850	5850	3444	2791	1773	2976	4200	6000	4444	2300	2300	2300	2384	1700	3001	1705	9780
1963	5786	5277	4113	2864	3300	3000	4500	4764	6000	5500	3671	2982	2945	2000	1841	6600	3513	7213
1964	5693	4311	3816	2849	3300	3636	5574	4200	6000	6600	2300	3076	3301	6600	1700	1775	6478	12304
1965	13966	8020	5029	3803	3300	3370	4500	4200	3067	5500	4499	2300	6600	2000	3238	3238	6068	8403
1966	7719	5065	4552	3268	3300	3300	4475	4200	1900	2561	2300	2300	4000	5707	3440	4033	4160	8393
1967	7624	5551	3977	2975	2983	2907	3364	5017	6000	6600	3053	2300	2300	6600	1700	1950	5627	21171
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	4074	1700	3279	6618	10997
1969	10482	5804	3825	2964	3300	3000	4500	4200	5144	4056	2300	2300	2300	5464	6601	4025	10193	7499
1970	5120	3594	2485	3392	3086	3300	4231	4200	1900	2300	2300	2300	6600	6600	1700	1700	2503	7300
1971	5076	3818	5439	3542	2303	1400	1800	4200	4286	6600	4838	4884	4389	2000	6600	2712	7357	12123
1972	8338	13037	6431	3471	3300	3300	3920	4035	3048	4928	6600	6600	6599	6600	6600	6660	10960	14786
1973	15033	10064	6930	4533	3300	3000	3973	4200	1900	2300	6600	6600	6007	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	5647	5052	6019	2000	1700	1700	2826	20811
1975	13032	11016	7371	4371	3300	1813	2792	4200	6000	2300	3650	2300	6600	4540	1700	1700	2628	8751
1976	14159	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	4155	3394	3213	4736	1754	2320	13081
1977	12599	10743	7950	5196	3506	3000	2250	2163	5252	5870	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	3296	2300	2300	2300	5177	4584	1700	1700	2567	8304

Date of Refill June 15 -- Target Refill Elevation 1601.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1556.2	1545.6	1532.8	1520.8	1513.8	1514.0	1533.0	1563.8	1575.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1549.8	1564.2	1580.3	1588.1	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1476.3	1491.6	1513.2	1547.7	1570.3	1596.9	1602.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1522.4	1520.0	1521.0	1527.7	1544.9	1567.7	1600.8	1602.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1550.8	1576.9	1601.5	1602.5
1936	1602.5	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1567.4	1558.2	1541.7	1520.9	1521.0	1542.9	1557.9	1583.5	1601.5	1602.3
1937	1601.5	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.3	1516.6	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1552.8	1546.0	1546.0	1546.1	1539.4	1551.9	1555.3	1582.0	1601.5	1602.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1544.5	1532.7	1521.7	1529.5	1546.0	1568.0	1587.9	1590.7	1594.4
1940	1601.5	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1546.2	1550.4	1554.2	1563.8	1573.7	1588.3	1588.6	1587.8
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1573.8	1567.4	1550.2	1530.0	1532.7	1540.5	1547.8	1571.6	1590.3	1601.5
1943	1602.5	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1557.4	1553.2	1551.9	1549.5	1548.0	1553.8	1557.3	1576.8	1601.5	1602.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1596.7
1946	1601.5	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1550.1	1543.6	1543.5	1537.1	1527.5	1542.5	1561.2	1589.6	1602.5	1602.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1547.9	1531.2	1530.4	1537.3	1535.3	1544.2	1565.2	1588.3	1601.5	1602.5
1948	1602.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1544.7	1541.1	1538.0	1535.7	1546.5	1546.2	1580.8	1602.5	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1549.9	1543.4	1526.7	1525.8	1516.1	1521.6	1550.8	1586.9	1602.5	1602.5
1950	1602.5	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1526.8	1515.0	1516.1	1524.5	1537.2	1563.7	1601.5	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1537.4	1562.1	1587.2	1601.5	1602.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1556.5	1552.6	1548.8	1545.4	1541.6	1551.5	1565.6	1585.6	1601.5	1602.5
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1576.7	1562.9	1558.5	1556.8	1550.7	1546.6	1562.3	1586.0	1601.5	1602.5
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1537.4	1536.0	1534.2	1533.8	1544.1	1575.6	1601.5	1602.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1557.5	1553.6	1549.3	1545.2	1530.0	1537.6	1561.6	1599.8	1602.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1516.1	1512.7	1515.3	1525.1	1548.3	1589.8	1602.5	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1542.8	1535.9	1522.4	1532.8	1573.4	1590.9	1602.5	1602.5
1958	1599.7	1594.4	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1563.0	1564.2	1564.0	1562.6	1562.6	1567.1	1571.1	1600.9	1602.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1545.0	1544.6	1537.4	1536.5	1551.0	1579.5	1601.5	1602.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1545.1	1541.7	1544.4	1553.2	1555.7	1569.4	1583.7	1602.5	1602.5
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1566.0	1559.8	1546.8	1533.3	1538.8	1530.4	1543.8	1578.6	1602.5	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1557.1	1553.9	1550.7	1553.1	1562.7	1568.6	1582.8	1600.4	1602.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1571.0	1568.4	1566.9	1569.2	1573.2	1586.7	1601.5	1602.5
1964	1602.5	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1548.1	1543.6	1543.2	1530.2	1538.0	1566.4	1601.5	1602.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1569.7	1557.3	1552.5	1552.8	1538.2	1553.2	1563.0	1584.3	1601.5	1602.5
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1568.0	1559.9	1556.9	1557.8	1564.7	1558.4	1577.6	1588.3	1601.5	1602.5
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1544.4	1543.6	1542.3	1525.1	1539.4	1572.7	1601.5	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1543.9	1556.8	1580.8	1601.5	1602.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1557.6	1539.0	1533.9	1533.8	1540.5	1540.7	1554.1	1588.0	1602.5	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1562.6	1561.1	1560.0	1558.2	1546.1	1529.6	1538.6	1566.7	1596.3	1602.5
1971	1602.5	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1560.5	1549.8	1541.0	1529.7	1522.4	1530.7	1558.0	1588.3	1602.5	1602.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1554.5	1539.9	1538.0	1537.9	1531.2	1517.4	1528.5	1570.5	1602.5	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1572.0	1566.0	1550.2	1530.8	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1522.6	1517.1	1505.7	1516.7	1540.5	1562.9	1600.0	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1550.9	1544.8	1541.5	1521.8	1514.0	1535.7	1561.6	1597.6	1602.5
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1529.2	1529.5	1530.4	1554.8	1583.5	1601.5	1602.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1568.7	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1546.8	1542.7	1540.7	1549.5	1545.1	1542.5	1555.9	1574.0	1601.5	1602.5

Plant ROSS -- Date of Refill June 15 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	31
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill June 15 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	112	113
1934	92	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	350
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18
1936	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63
1944	75	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	44
1947	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	19
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	76	170
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205	205
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	60	184
1952	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
1954	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	161
1955	139	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	83	294
1956	55	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	56	73	259
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	10	0	118
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	5	30
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	102
1960	43	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	40	172
1961	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	92	149
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	41
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	78	79
1965	100	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	135
1966	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	30
1967	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	204	212
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	58	124
1969	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	8	99
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	74	77
1972	19	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	114	274
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	200
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	177
1976	100	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	88	210
1977	81	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18

Plant GORGE -- Date of Refill June 15 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	39
1933	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	124
1934	108	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	386
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
1936	15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	68
1939	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	69
1944	93	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	49	50
1947	32	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	45
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	83	190
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	17
1950	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	216	231
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	66	236
1952	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
1953	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	26
1954	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	189
1955	160	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	90	366
1956	73	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	64	79	298
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	17	0	142
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	9	40
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110
1960	61	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	46	202
1961	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	100	186
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	66
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84
1965	120	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	177
1966	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	51
1967	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	217	241
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	64	133
1969	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	12	131
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	81	90
1972	35	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	63	121	339
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211	211
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	237
1976	123	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	95	250
1977	99	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24

ALTERNATIVE 4 - REFILL TO 1592.0 ON JUNE 15
INTERIM FISHERIES AGREEMENT

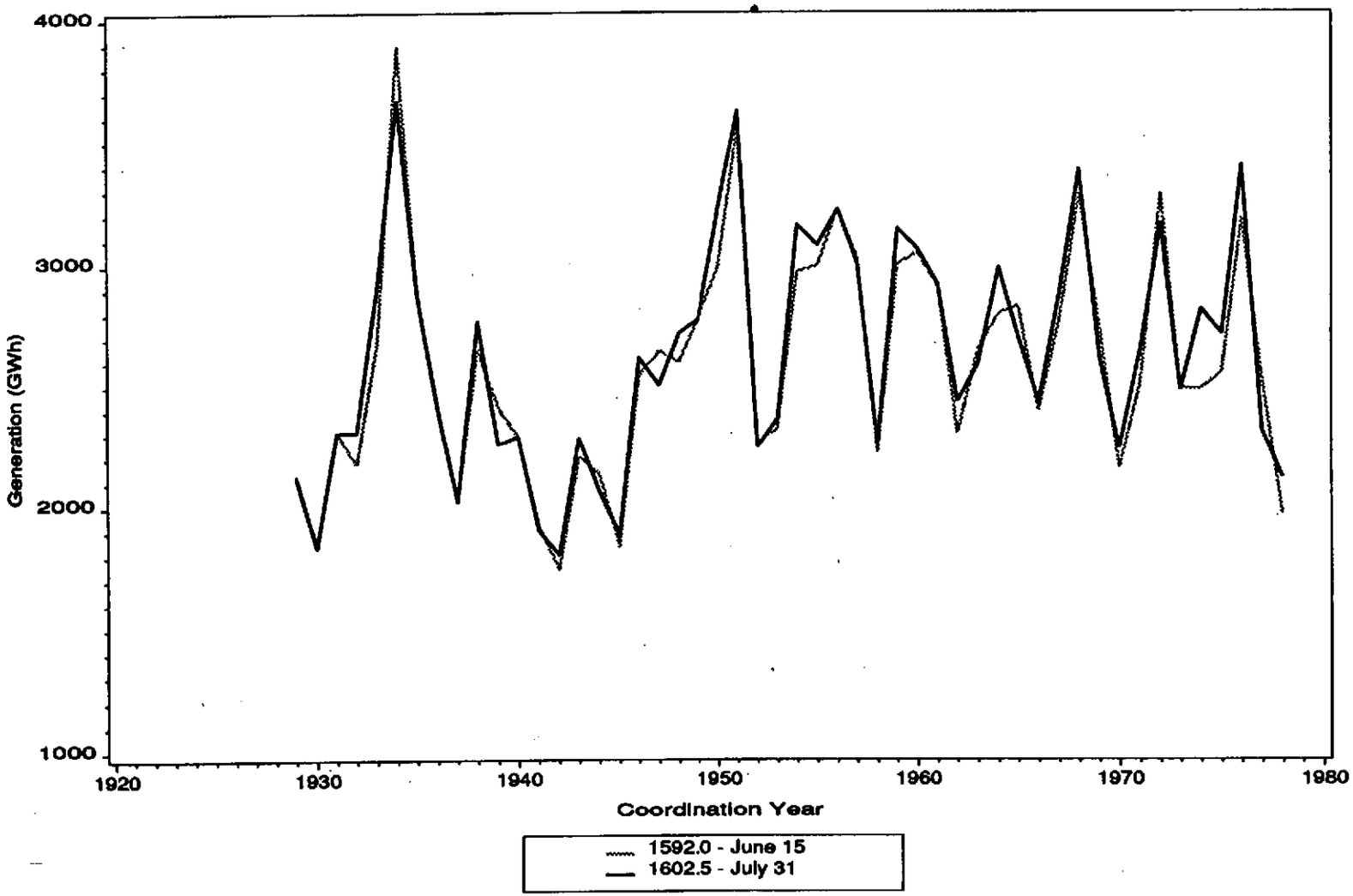
Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1592.0

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1592.0 - June 15	1602.5 - July 31	1592.0 - June 15	1602.5 - July 31	1592.0 - June 15
1929	812	892	1,311	1,239	2,123	2,131
1930	766	796	1,067	1,050	1,834	1,845
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	879	1,297	1,294	2,310	2,174
1933	1,015	909	1,898	1,775	2,914	2,683
1934	1,577	1,797	2,095	2,095	3,672	3,892
1935	1,296	1,300	1,589	1,589	2,886	2,890
1936	1,073	1,189	1,341	1,216	2,413	2,405
1937	862	871	1,160	1,160	2,021	2,032
1938	1,396	1,467	1,377	1,190	2,773	2,657
1939	969	1,140	1,288	1,274	2,257	2,414
1940	804	868	1,488	1,421	2,292	2,290
1941	622	654	1,283	1,272	1,905	1,926
1942	406	389	1,398	1,356	1,804	1,745
1943	899	1,015	1,386	1,193	2,285	2,208
1944	788	925	1,275	1,209	2,064	2,134
1945	728	679	1,157	1,157	1,885	1,836
1946	1,231	1,279	1,388	1,264	2,619	2,543
1947	984	1,181	1,520	1,465	2,504	2,646
1948	1,082	1,176	1,637	1,424	2,719	2,601
1949	1,151	1,318	1,627	1,466	2,779	2,784
1950	1,371	1,135	1,855	1,855	3,225	2,989
1951	1,557	1,487	2,072	2,072	3,628	3,558
1952	816	1,080	1,432	1,188	2,248	2,268
1953	1,063	1,132	1,300	1,193	2,363	2,325
1954	1,295	1,190	1,866	1,781	3,161	2,971
1955	1,268	1,450	1,812	1,546	3,080	2,996
1956	1,295	1,415	1,929	1,810	3,224	3,224
1957	1,287	1,307	1,716	1,716	3,004	3,024
1958	1,021	1,246	1,239	977	2,260	2,223
1959	1,398	1,316	1,746	1,687	3,144	3,003
1960	1,144	1,177	1,918	1,870	3,062	3,047
1961	1,210	1,202	1,709	1,709	2,919	2,911
1962	997	964	1,440	1,339	2,437	2,304
1963	942	1,006	1,651	1,651	2,593	2,657
1964	1,194	1,029	1,796	1,772	2,990	2,801
1965	1,056	1,307	1,647	1,521	2,703	2,829
1966	880	1,149	1,555	1,250	2,436	2,399
1967	1,133	1,141	1,752	1,632	2,884	2,773
1968	1,442	1,340	1,945	1,945	3,386	3,284
1969	997	1,267	1,622	1,484	2,619	2,751
1970	795	976	1,446	1,180	2,241	2,157
1971	1,215	1,113	1,436	1,398	2,650	2,510
1972	1,506	1,692	1,657	1,599	3,164	3,291
1973	1,014	1,087	1,472	1,406	2,485	2,493
1974	1,312	981	1,506	1,506	2,817	2,486
1975	1,241	1,231	1,476	1,331	2,717	2,563
1976	1,315	1,102	2,085	2,085	3,400	3,188
1977	903	1,223	1,413	1,304	2,316	2,528
1978	936	1,009	1,184	961	2,120	1,970

Synergic Resources Corporation -- 16NOV89

Annual Energy Production: Base Case vs. Early Refill

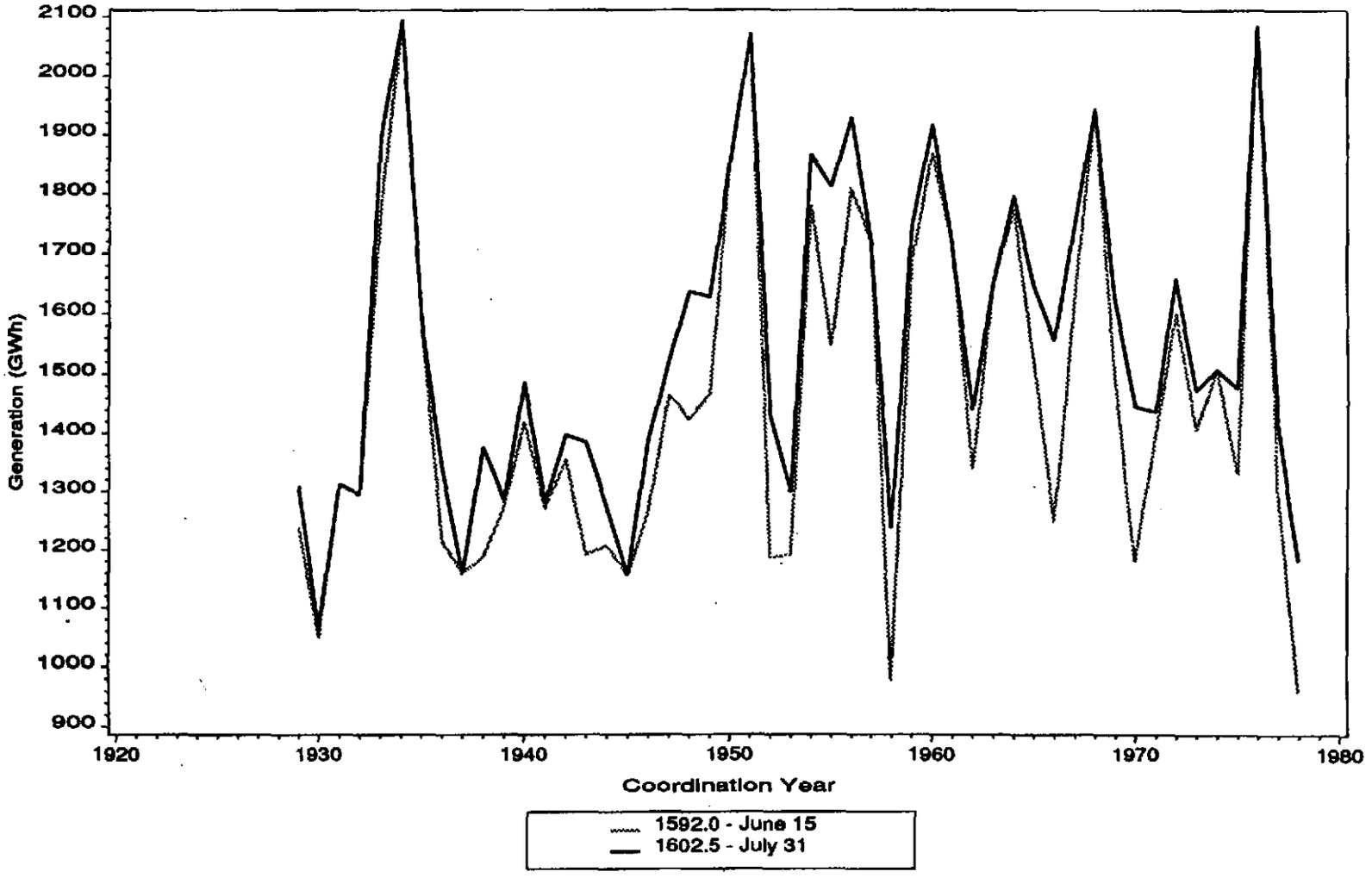
July 31 at 1602.5 vs. June 15 at 1592.0



Synergic Resources Corporation – 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1592.0

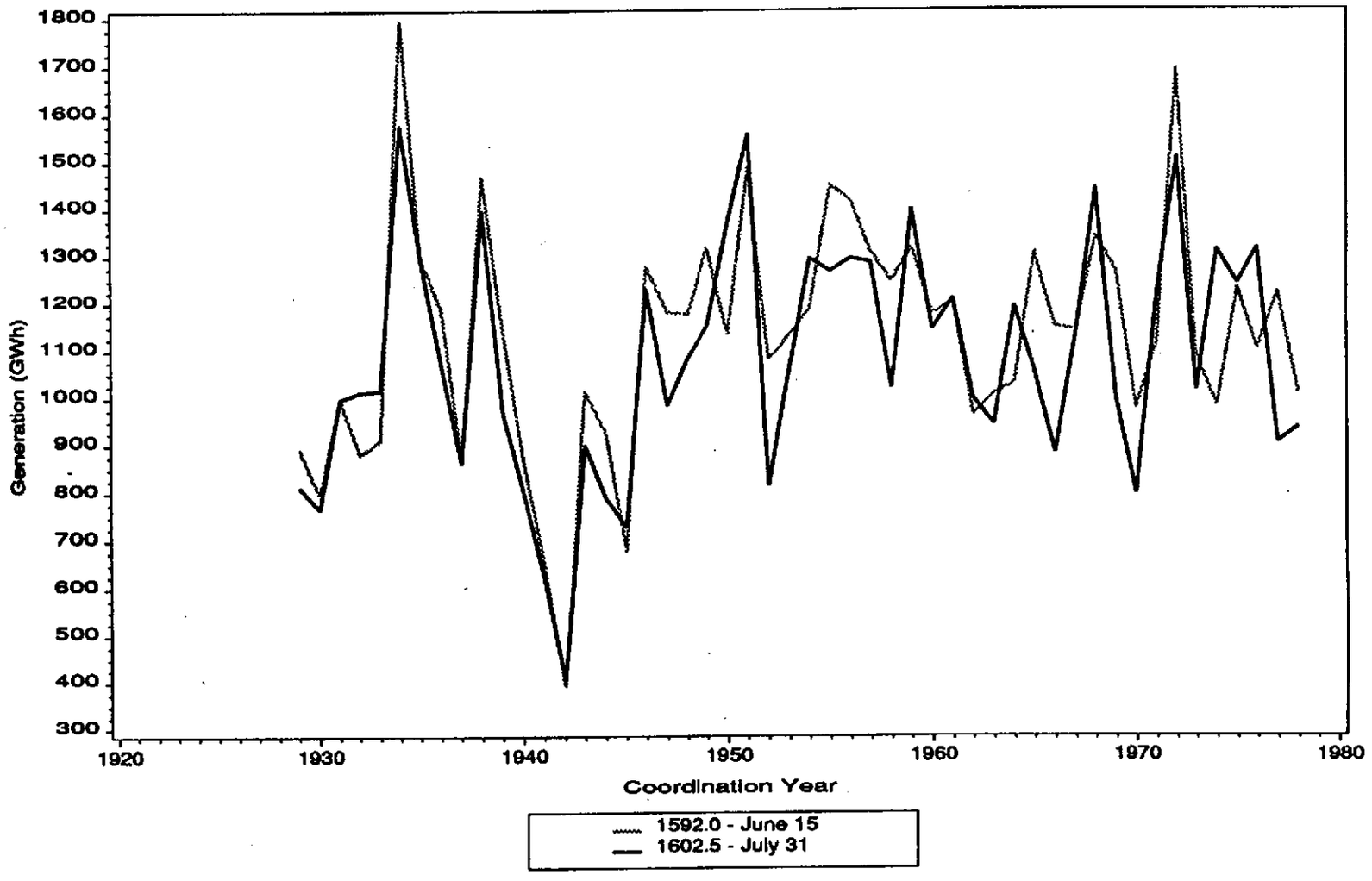
Energy Season=Winter



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1592.0

Energy Season=Summer



Synergic Resources Corporation -- 17NOV89

Date of Refill June 15 -- Target Refill Elevation 1592

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	139	114	205	144	61	300	892	1,239	2,131
1930	168	151	67	65	129	198	207	123	260	152	101	224	796	1,050	1,845
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	195	82	61	259	879	1,294	2,174
1933	282	163	157	148	322	229	369	331	218	150	69	245	909	1,775	2,683
1934	437	270	163	249	358	295	360	326	345	320	397	373	1,797	2,095	3,892
1935	305	314	92	78	238	227	345	324	287	300	70	312	1,300	1,589	2,890
1936	304	184	146	145	137	166	220	114	288	202	286	213	1,189	1,216	2,405
1937	142	186	144	87	136	215	232	112	234	169	63	312	871	1,160	2,032
1938	302	320	116	101	193	222	328	112	117	268	295	283	1,467	1,190	2,657
1939	294	224	114	68	121	148	326	228	268	122	194	306	1,140	1,274	2,414
1940	154	193	149	83	163	217	338	302	169	142	166	213	868	1,421	2,290
1941	130	165	59	124	141	117	334	229	269	231	70	58	654	1,272	1,926
1942	56	101	54	42	236	223	342	112	346	98	66	67	389	1,356	1,745
1943	157	126	157	93	88	225	326	109	196	324	186	221	1,015	1,193	2,208
1944	406	190	154	81	118	230	138	248	239	165	66	99	925	1,209	2,134
1945	254	152	87	63	111	238	304	181	173	114	55	104	679	1,157	1,836
1946	142	321	157	122	183	94	332	214	163	178	314	324	1,279	1,264	2,543
1947	342	166	173	162	138	228	329	261	173	187	204	283	1,181	1,465	2,646
1948	211	146	171	158	242	228	334	111	181	130	282	408	1,176	1,424	2,601
1949	289	196	166	158	246	236	315	110	235	306	205	322	1,318	1,466	2,784
1950	250	306	134	109	324	242	373	327	345	102	153	324	1,135	1,855	2,989
1951	417	232	166	168	348	372	338	315	365	330	201	307	1,487	2,072	3,558
1952	331	158	167	169	217	232	122	158	122	192	162	238	1,080	1,188	2,268
1953	257	173	148	73	118	140	285	266	163	256	153	292	1,132	1,193	2,325
1954	331	191	162	168	262	227	372	322	268	186	243	239	1,190	1,781	2,971
1955	477	319	182	175	367	232	340	112	138	342	65	248	1,450	1,546	2,996
1956	396	208	168	216	375	233	372	273	173	215	193	404	1,415	1,810	3,224
1957	385	201	159	228	241	233	343	273	240	208	237	277	1,307	1,716	3,024
1958	308	215	82	55	104	232	278	104	121	104	319	301	1,246	977	2,223
1959	300	220	93	107	231	317	367	334	238	321	132	343	1,316	1,687	3,003
1960	381	180	209	246	356	230	369	270	190	167	135	314	1,177	1,870	3,047
1961	329	180	170	153	233	227	316	257	353	115	195	384	1,202	1,709	2,911
1962	318	232	141	80	156	230	322	266	145	127	106	181	964	1,339	2,304
1963	270	167	168	159	225	254	335	262	247	152	215	202	1,006	1,651	2,657
1964	214	167	163	183	294	226	334	333	240	248	64	335	1,029	1,772	2,801
1965	418	220	166	176	242	230	265	266	177	185	174	309	1,307	1,521	2,829
1966	276	190	174	172	233	229	134	190	118	197	153	334	1,149	1,250	2,399
1967	289	172	149	144	178	260	335	331	235	226	65	389	1,141	1,632	2,773
1968	350	181	161	210	308	228	356	322	359	338	144	326	1,340	1,945	3,284
1969	350	168	160	160	233	233	330	249	118	147	281	321	1,267	1,484	2,751
1970	218	151	146	179	226	233	99	176	121	343	65	200	976	1,180	2,157
1971	167	237	111	71	89	234	322	312	259	152	200	356	1,113	1,398	2,510
1972	409	237	170	178	206	226	261	230	329	327	308	411	1,692	1,599	3,291
1973	445	278	164	165	216	223	120	156	361	154	63	147	1,087	1,406	2,493
1974	207	198	89	56	112	224	351	328	345	204	60	312	981	1,506	2,486
1975	438	280	165	98	142	229	333	193	171	190	57	267	1,231	1,331	2,563
1976	372	168	170	166	312	383	366	331	357	184	134	245	1,102	2,085	3,188
1977	434	309	173	165	116	114	299	283	155	252	75	153	1,223	1,304	2,528
1978	301	188	62	59	118	229	275	107	109	200	97	222	1,009	961	1,970

Plant GORGE -- Date of Refill June 15 -- Target Refill Elevation 1592

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	2514	2300	3197	4421	3069	2841	1700	1700	6601	5622
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	4000	1996	2339	3891	5044
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3422	2300	2000	1700	1700	3912	7514
1933	6489	4666	3449	3134	2994	2807	6362	4200	6557	6600	6193	2300	2300	4149	1700	1700	1926	10921
1934	13212	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	1700	1952	6219	6573
1936	5850	5932	3694	3526	2977	2676	2504	3023	4019	2300	6648	4288	2300	6600	6600	5419	4441	5001
1937	4432	1779	4048	3222	2833	1667	2473	3964	4162	2300	4625	4458	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	6000	2300	2300	2300	6600	4180	6046	5738	4619	7688
1939	6579	5037	3894	4384	2366	1400	2300	2808	6000	4580	4327	5745	3425	2000	3000	5111	6600	5614
1940	4161	2662	3568	3894	2871	1757	3195	4200	6000	6085	2300	4223	4000	2000	3000	4145	6600	2270
1941	3092	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	6000	2300	6600	6058	2300	2000	1700	1700	1786	1997
1943	4374	2451	3045	2180	2995	1731	1800	4200	6000	2320	2996	4500	6600	6600	3756	3960	2229	7745
1944	12193	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	3675
1946	4064	2138	5850	5850	3133	2495	3531	1800	6000	4399	2300	3938	5347	2227	6600	6600	6600	6636
1947	8139	6366	3713	3012	3300	3000	2598	4200	6000	5499	2300	4500	4000	4000	3000	5872	5000	6600
1948	5000	3603	2949	2818	3300	3300	4500	4200	6000	2300	4500	2300	3260	2210	5172	6599	10290	12261
1949	5943	5268	3971	3899	3300	3000	4500	4200	5655	2300	4535	4500	6600	6259	6599	3092	6600	6600
1950	5363	4825	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	2508	2000	3732	3219	3177	17547
1951	13759	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	4716	4055	5522	7570
1952	8582	5624	3669	2712	3301	3301	4045	4156	2236	3273	2300	2300	4001	4000	3000	4127	4999	5013
1953	5967	4415	3726	3293	2901	1452	2174	2535	5516	5500	3808	2300	3552	6600	3959	2916	5121	6600
1954	8561	5804	4384	3329	3300	3300	4964	4200	6600	6600	6600	3503	3303	4311	5322	5059	1881	10802
1955	16678	10801	6853	5779	3701	3284	7587	4200	6000	2300	2300	2707	6600	6599	1700	1700	2945	9862
1956	10843	8626	5086	3263	3300	4714	7713	4201	6600	5500	4394	2300	2573	6600	2003	6600	8344	12010
1957	11146	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1200	2037	4200	5140	2300	2300	2300	2300	2000	6600	6600	5992	6566
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	6600	2407	6600	6600	4479	1700	6067	10510
1960	10052	8285	4083	3168	4329	6054	6934	4200	6532	5500	2300	4847	4000	2986	4376	1700	6600	6600
1961	8179	5897	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	2300	2658	1700	6600	7134	13410
1962	7315	5850	5850	3444	2791	1773	2976	4200	6000	5501	3100	2300	2300	3189	1700	2999	1705	6600
1963	5391	5277	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	2000	1906	6600	3521	5151
1964	5001	3540	3816	2849	3300	3636	5574	4200	6000	6600	4011	4833	3263	6600	1700	1775	6506	8728
1965	13966	8020	5029	3803	3300	3370	4500	4200	4809	5500	4499	2300	5223	2445	3553	3812	6051	6600
1966	5946	5065	4552	3268	3300	3300	4475	4200	2496	3817	2300	2300	4000	4000	3623	3051	6730	6600
1967	5850	5542	3977	2975	2983	2907	3364	5017	6000	6600	6599	2300	2300	6600	1700	1950	5657	17595
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6282	1700	4555	6626	7421
1969	10482	5804	3825	2964	3300	3000	4500	4200	6000	5020	2300	2300	2300	3999	6601	5405	6616	7499
1970	5120	3594	2485	3392	3086	3300	4231	4200	1900	3631	2300	2300	6600	6600	1700	1700	2503	6627
1971	4852	2329	5439	3542	2303	1400	1800	4200	6001	6600	4500	5221	4402	2000	6600	2676	6600	9340
1972	8338	13037	6431	3471	3300	3300	3920	4035	4780	4913	6600	6600	6599	6600	6600	6703	7364	14786
1973	15033	10064	6930	4533	3300	3000	3973	4200	2296	3131	6600	6600	3637	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	2000	1700	1700	2826	17626
1975	13032	11016	7371	4371	3300	1813	2792	4200	6000	3911	4204	2300	4993	2585	1700	1700	4707	6672
1976	14159	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	4351	3202	4759	1742	2332	9505
1977	12599	10743	7950	5196	3506	3000	2250	2163	5382	5726	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	5032	2300	2300	2300	4000	4001	2776	1700	3241	6600

Date of Refill June 15 -- Target Refill Elevation 1592

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1552.0	1541.4	1532.8	1520.8	1513.8	1514.0	1533.0	1563.8	1575.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1546.8	1560.6	1575.0	1588.1	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1476.3	1491.6	1513.2	1547.7	1570.3	1592.0	1602.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1507.7	1504.8	1506.0	1513.1	1532.5	1556.8	1591.2	1602.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1550.8	1576.1	1592.0	1597.5
1936	1600.4	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1556.4	1546.4	1528.6	1516.1	1516.3	1534.4	1549.9	1573.4	1592.0	1597.2
1937	1597.6	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.3	1516.6	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1550.2	1543.5	1543.4	1543.5	1528.8	1540.2	1543.5	1571.7	1592.0	1602.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1544.5	1532.7	1521.7	1524.9	1542.3	1560.9	1578.3	1581.1	1587.4
1940	1594.9	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1546.2	1543.6	1543.0	1553.0	1565.9	1580.4	1580.7	1587.8
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1565.4	1558.9	1540.9	1520.8	1523.8	1532.5	1540.3	1564.9	1584.3	1595.0
1943	1598.7	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1553.1	1548.8	1545.2	1537.9	1536.2	1542.4	1545.5	1566.1	1592.0	1602.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1592.0
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1550.1	1531.1	1531.0	1523.4	1512.8	1529.8	1549.5	1580.0	1593.6	1602.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1523.0	1523.9	1523.5	1536.5	1565.1	1582.8	1595.6	1598.3
1948	1600.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1544.7	1533.3	1530.0	1523.5	1534.9	1533.9	1570.5	1602.5	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1538.0	1530.9	1520.6	1512.4	1501.7	1508.0	1539.9	1577.2	1594.4	1596.7
1950	1601.1	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1502.3	1511.6	1523.6	1552.4	1592.0	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1550.6	1577.6	1592.0	1602.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1554.2	1544.3	1540.5	1536.9	1532.7	1543.3	1557.9	1583.8	1595.6	1600.8
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1566.0	1554.2	1546.7	1545.0	1538.8	1534.3	1550.8	1576.2	1592.0	1596.3
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1522.4	1520.1	1519.7	1531.6	1564.9	1592.0	1602.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1557.5	1553.6	1547.9	1536.0	1519.0	1527.7	1553.0	1592.0	1602.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1507.4	1503.4	1505.2	1515.4	1539.4	1582.6	1602.5	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1551.5	1552.9	1552.6	1551.0	1551.0	1556.1	1560.4	1591.4	1600.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1532.5	1524.2	1523.1	1539.2	1569.1	1592.0	1602.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1537.1	1531.9	1541.4	1543.9	1558.6	1573.7	1593.4	1601.8
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1526.8	1530.4	1543.8	1570.2	1602.5	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1544.8	1541.5	1544.0	1551.2	1557.7	1572.7	1590.9	1601.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1558.7	1562.6	1577.1	1592.0	1598.6
1964	1600.4	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1542.5	1531.0	1530.7	1515.7	1524.6	1555.4	1592.0	1602.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1558.9	1545.4	1540.7	1540.9	1530.2	1544.4	1553.5	1574.3	1592.0	1597.9
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1564.3	1548.1	1545.1	1546.0	1553.5	1552.2	1571.5	1585.6	1592.0	1597.9
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1531.2	1529.7	1510.6	1526.1	1562.1	1592.0	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1536.3	1549.5	1570.5	1592.0	1602.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1525.6	1519.9	1519.7	1527.3	1533.2	1547.1	1578.4	1602.5	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1562.6	1553.0	1551.8	1550.0	1537.7	1519.5	1529.6	1559.2	1589.7	1597.8
1971	1598.4	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1548.9	1538.0	1529.5	1515.1	1507.7	1516.1	1546.2	1578.8	1595.2	1602.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1542.7	1526.7	1524.5	1524.5	1516.8	1501.9	1514.0	1559.8	1602.5	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1569.6	1558.9	1542.4	1521.2	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1502.8	1528.9	1552.8	1591.4	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1541.0	1532.4	1528.6	1513.8	1514.0	1535.7	1561.6	1592.0	1602.5
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1514.9	1515.9	1543.0	1573.5	1592.0	1602.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1567.9	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1534.5	1530.0	1527.5	1537.5	1536.9	1536.1	1546.3	1565.3	1592.0	1597.6

Plant ROSS -- Date of Refill June 15 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill June 15 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	59	60
1934	92	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	350
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
1944	75	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	76	117
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151	151
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	6	131
1952	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	72
1955	139	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	40	251
1956	55	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	16	73	219
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	108
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	49
1960	43	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	133
1961	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	108
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	24	25
1965	100	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151	151
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	4	70
1969	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	58
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
1972	19	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	222
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152	152
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
1976	100	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	35	156
1977	81	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant GORGE -- Date of Refill June 15 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
1933	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	70
1934	108	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	386
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
1939	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
1944	93	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	32	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	83	136
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162	162
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	13	183
1952	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	100
1955	160	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	47	323
1956	73	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	24	79	258
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	126
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	57
1960	61	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	156
1961	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	100	139
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
1965	120	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	163
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	10	79
1969	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	79
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	39
1972	35	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	9	121	285
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	163
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
1976	123	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	42	196
1977	99	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 5 - REFILL TO 1580.0 ON JUNE 15
INTERIM FISHERIES AGREEMENT

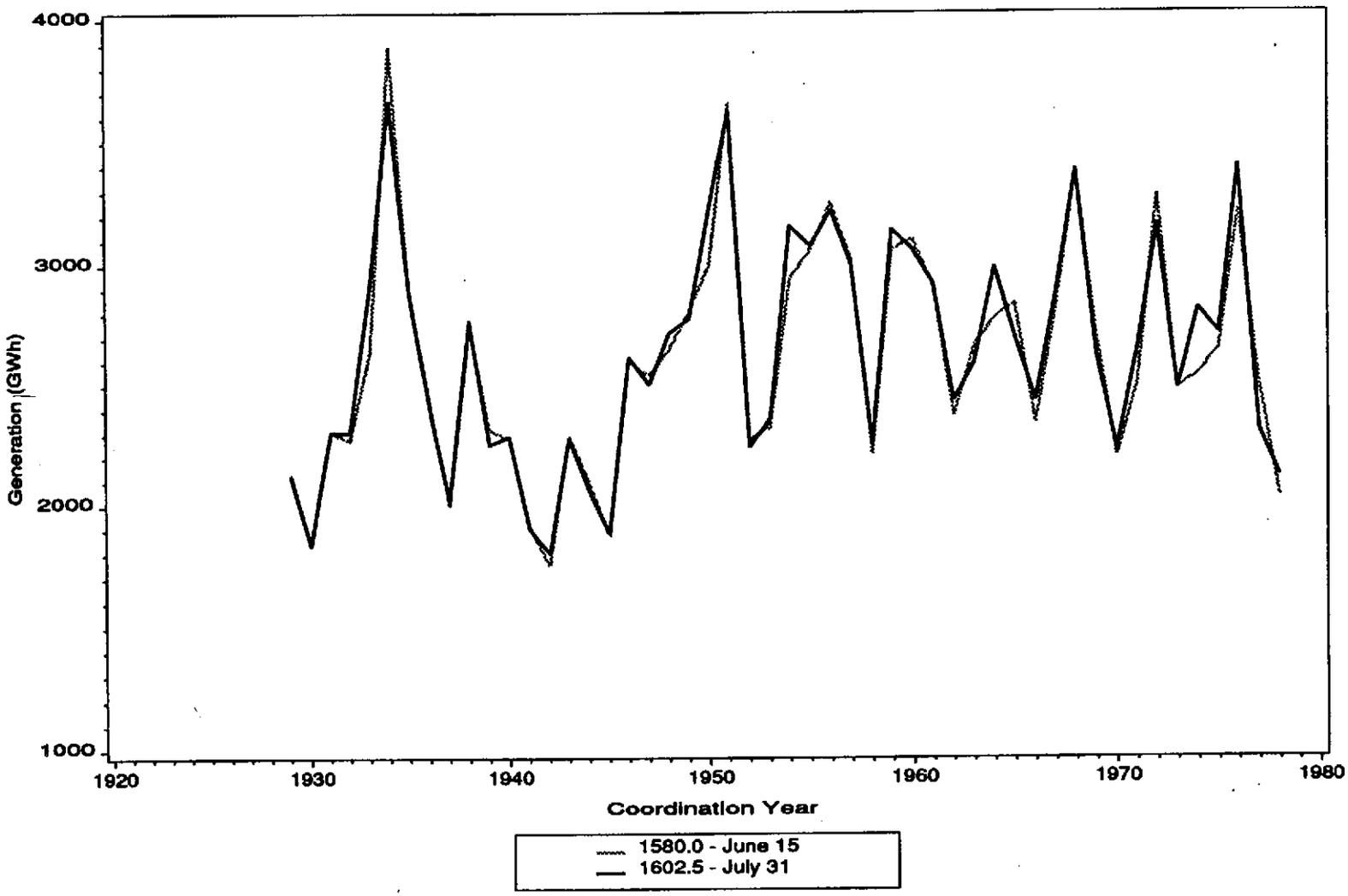
Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1580.0

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1580.0 - June 15	1602.5 - July 31	1580.0 - June 15	1602.5 - July 31	1580.0 - June 15
1929	812	858	1,311	1,271	2,123	2,129
1930	766	791	1,067	1,050	1,834	1,840
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	978	1,297	1,297	2,310	2,275
1933	1,015	781	1,898	1,859	2,914	2,640
1934	1,577	1,795	2,095	2,095	3,672	3,890
1935	1,296	1,296	1,589	1,589	2,886	2,886
1936	1,073	1,204	1,341	1,225	2,413	2,428
1937	862	843	1,160	1,160	2,021	2,002
1938	1,396	1,509	1,377	1,240	2,773	2,749
1939	969	1,033	1,288	1,288	2,257	2,321
1940	804	802	1,488	1,481	2,292	2,282
1941	622	646	1,283	1,272	1,905	1,918
1942	406	396	1,398	1,355	1,804	1,751
1943	899	984	1,386	1,310	2,285	2,294
1944	788	889	1,275	1,208	2,064	2,097
1945	728	717	1,157	1,157	1,885	1,873
1946	1,231	1,227	1,388	1,378	2,619	2,606
1947	984	1,021	1,520	1,520	2,504	2,542
1948	1,082	1,143	1,637	1,510	2,719	2,652
1949	1,151	1,241	1,627	1,566	2,779	2,807
1950	1,371	1,147	1,855	1,855	3,225	3,002
1951	1,557	1,588	2,072	2,072	3,628	3,659
1952	816	975	1,432	1,304	2,248	2,279
1953	1,063	1,068	1,300	1,261	2,363	2,329
1954	1,295	1,076	1,866	1,866	3,161	2,942
1955	1,268	1,397	1,812	1,665	3,080	3,062
1956	1,295	1,351	1,929	1,904	3,224	3,255
1957	1,287	1,307	1,716	1,716	3,004	3,024
1958	1,021	1,143	1,239	1,074	2,260	2,217
1959	1,398	1,318	1,746	1,746	3,144	3,064
1960	1,144	1,187	1,918	1,918	3,062	3,105
1961	1,210	1,206	1,709	1,709	2,919	2,914
1962	997	934	1,440	1,440	2,437	2,373
1963	942	1,016	1,651	1,651	2,593	2,667
1964	1,194	982	1,796	1,796	2,990	2,779
1965	1,056	1,252	1,647	1,592	2,703	2,844
1966	880	977	1,555	1,367	2,436	2,345
1967	1,133	1,076	1,752	1,743	2,884	2,819
1968	1,442	1,441	1,945	1,945	3,386	3,385
1969	997	1,181	1,622	1,525	2,619	2,707
1970	795	904	1,446	1,298	2,241	2,202
1971	1,215	1,071	1,436	1,436	2,650	2,507
1972	1,506	1,634	1,657	1,657	3,164	3,291
1973	1,014	1,084	1,472	1,406	2,485	2,490
1974	1,312	1,038	1,506	1,506	2,817	2,544
1975	1,241	1,238	1,476	1,416	2,717	2,653
1976	1,315	1,134	2,085	2,085	3,400	3,220
1977	903	1,206	1,413	1,304	2,316	2,510
1978	936	981	1,184	1,055	2,120	2,035

Synergic Resources Corporation -- 16NOV89

Annual Energy Production: Base Case vs. Early Refill

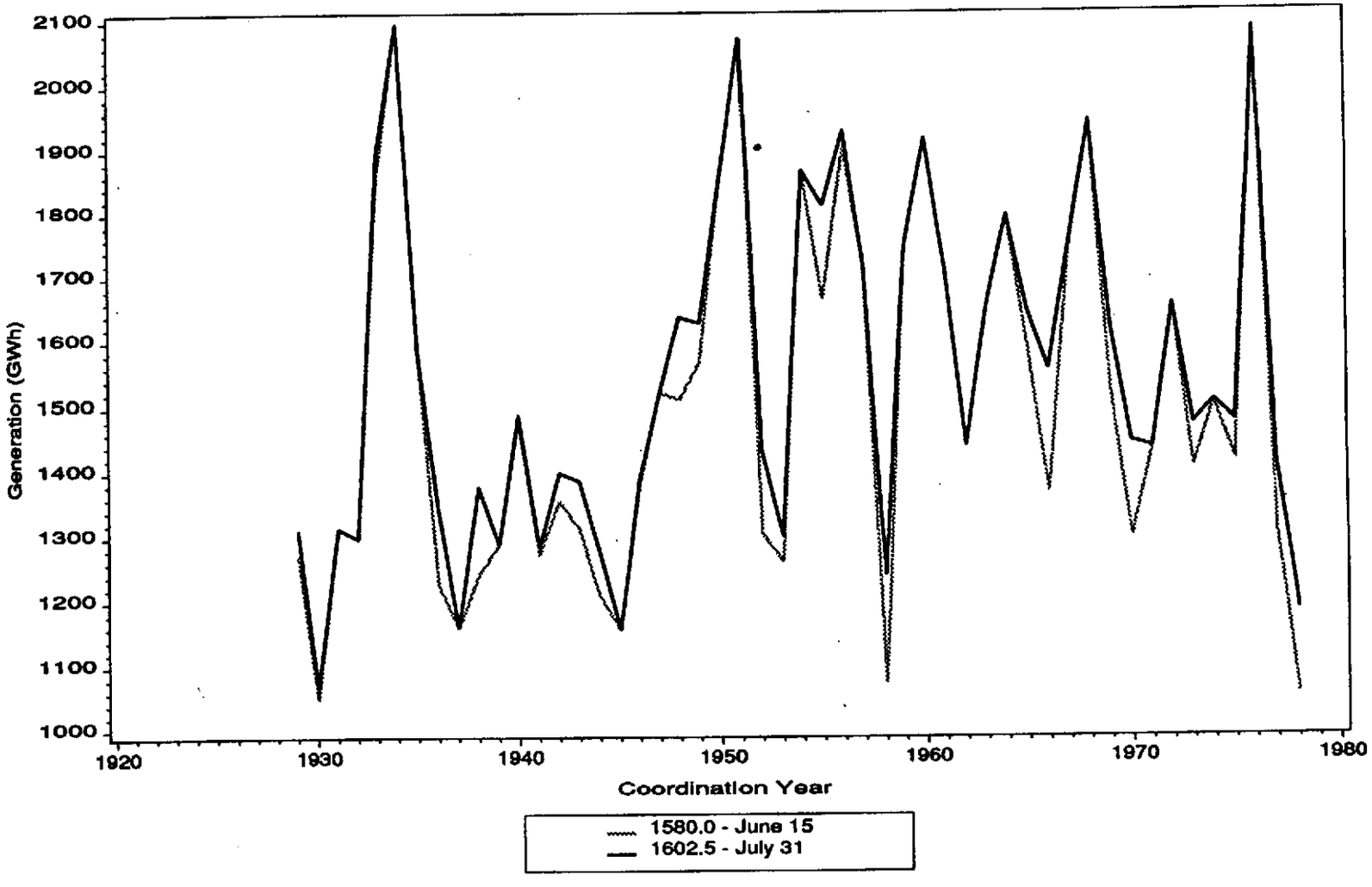
July 31 at 1602.5 vs. June 15 at 1580.0



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1580.0

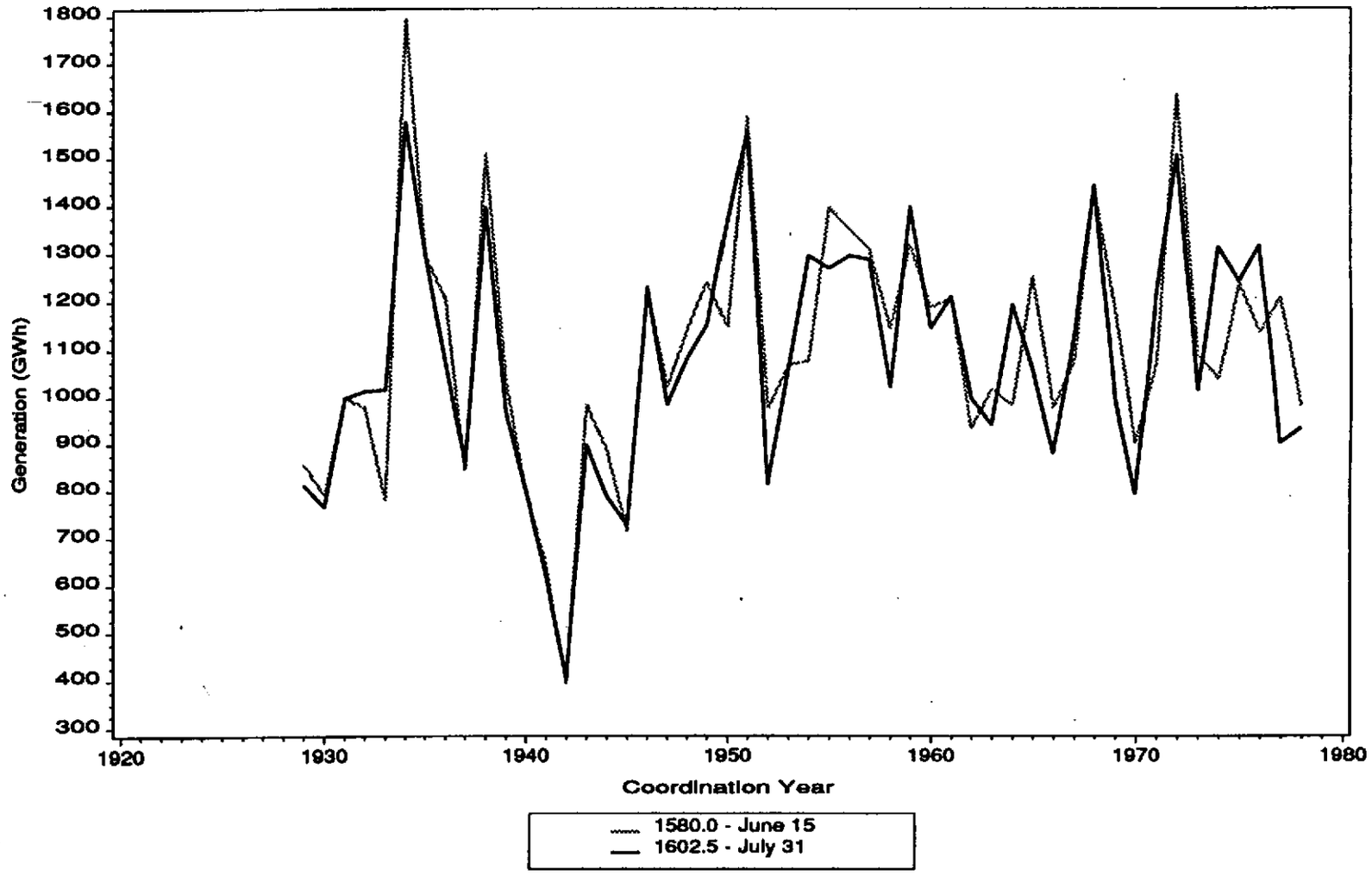
Energy Season=Winter



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 15 at 1580.0

Energy Season=Summer



Synergic Resources Corporation -- 17NOV89

Date of Refill June 15 -- Target Refill Elevation 1580

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	260	112	118	110	61	300	858	1,271	2,129
1930	168	151	67	65	129	198	207	123	260	172	147	152	791	1,050	1,840
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	82	160	258	978	1,297	2,275
1933	183	163	157	148	322	229	369	331	303	174	68	193	781	1,859	2,640
1934	435	270	163	249	358	295	360	326	345	320	397	373	1,795	2,095	3,890
1935	305	314	92	78	238	227	345	324	287	300	136	242	1,296	1,589	2,886
1936	304	184	146	145	137	166	294	113	224	199	288	228	1,204	1,225	2,428
1937	113	186	144	87	136	215	297	111	170	169	63	312	843	1,160	2,002
1938	302	320	116	101	193	222	328	113	167	312	313	262	1,509	1,240	2,749
1939	201	224	114	68	121	148	326	275	236	189	131	288	1,033	1,288	2,321
1940	146	193	149	83	163	217	338	302	228	169	131	163	802	1,481	2,282
1941	122	165	59	124	141	117	334	229	269	231	70	58	646	1,272	1,918
1942	56	101	54	42	236	223	342	176	281	98	66	75	396	1,355	1,751
1943	150	126	157	93	88	225	326	229	193	252	255	201	984	1,310	2,294
1944	369	190	154	81	118	230	253	133	239	165	66	99	889	1,208	2,097
1945	254	152	87	63	111	238	304	181	173	114	55	141	717	1,157	1,873
1946	104	321	157	122	183	94	332	269	222	174	310	319	1,227	1,378	2,606
1947	246	166	173	162	138	228	329	261	229	185	142	283	1,021	1,520	2,542
1948	211	146	171	158	242	228	334	197	180	158	277	350	1,143	1,510	2,652
1949	289	196	166	158	246	236	334	198	227	235	254	266	1,241	1,566	2,807
1950	205	306	134	109	324	242	373	327	345	202	160	274	1,147	1,855	3,002
1951	417	232	166	168	348	372	338	315	365	330	321	287	1,588	2,072	3,659
1952	267	158	167	169	217	232	244	155	120	188	127	236	975	1,304	2,279
1953	163	173	148	73	118	140	313	266	204	265	191	276	1,068	1,261	2,329
1954	250	191	162	168	262	227	372	322	353	211	238	186	1,076	1,866	2,942
1955	474	319	182	175	367	232	340	191	178	326	64	215	1,397	1,665	3,062
1956	383	208	168	216	375	233	372	273	267	224	190	347	1,351	1,904	3,255
1957	385	201	159	228	241	233	343	273	240	208	237	277	1,307	1,716	3,024
1958	308	215	82	55	104	232	326	142	132	122	220	278	1,143	1,074	2,217
1959	300	220	93	107	231	317	367	334	297	317	189	292	1,318	1,746	3,064
1960	375	180	209	246	356	230	369	270	238	193	127	312	1,187	1,918	3,105
1961	284	180	170	153	233	227	316	257	353	214	193	334	1,206	1,709	2,914
1962	318	232	141	80	156	230	322	266	245	144	105	134	934	1,440	2,373
1963	187	167	168	159	225	254	335	262	247	207	243	213	1,016	1,651	2,667
1964	112	167	163	183	294	226	334	333	265	329	64	311	982	1,796	2,779
1965	392	220	166	176	242	230	332	264	183	193	134	312	1,252	1,592	2,844
1966	223	190	174	172	233	229	256	187	116	195	133	237	977	1,367	2,345
1967	276	172	149	144	178	260	335	331	346	219	64	345	1,076	1,743	2,819
1968	350	181	161	210	308	228	356	322	359	347	254	308	1,441	1,945	3,385
1969	307	168	160	160	233	233	330	273	136	189	240	277	1,181	1,525	2,707
1970	218	151	146	179	226	233	216	179	119	257	64	213	904	1,298	2,202
1971	110	237	111	71	89	234	322	312	297	209	197	318	1,071	1,436	2,507
1972	397	237	170	178	206	226	328	256	294	322	301	377	1,634	1,657	3,291
1973	445	278	164	165	216	223	243	153	241	151	63	147	1,084	1,406	2,490
1974	207	198	89	56	112	224	351	328	345	306	59	268	1,038	1,506	2,544
1975	438	280	165	98	142	229	333	272	176	123	82	316	1,238	1,416	2,653
1976	333	168	170	166	312	383	366	331	357	296	133	205	1,134	2,085	3,220
1977	417	309	173	165	116	114	334	247	155	252	75	153	1,206	1,304	2,510
1978	301	188	62	59	118	229	329	106	151	197	102	192	981	1,055	2,035

Plant GORGE -- Date of Refill June 15 -- Target Refill Elevation 1580

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	4677	2300	2300	2300	2300	2299	1700	1700	6601	5622
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	3376	4000	3000	3000	3679	2771
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	2300	2000	5482	1700	4500	6599
1933	5000	2728	3449	3134	2994	2807	6362	4200	6557	6600	6599	5104	2300	5252	1700	1700	1926	6600
1934	13033	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	3000	3000	5000	5373
1936	5850	5932	3694	3526	2977	2676	2504	3023	5325	2300	4500	4116	4000	4868	6600	5515	5000	5001
1937	3436	1779	4048	3222	2833	1667	2473	3964	5328	2300	2300	4379	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	6000	2325	2962	3411	6600	5949	6599	5991	4606	6600
1939	5000	3345	3894	4384	2366	1400	2300	2808	6000	5499	4500	4500	4000	4000	3000	3000	6600	5001
1940	3890	2662	3568	3894	2871	1757	3195	4200	6000	6085	4227	4500	4000	3031	3000	3000	5607	1497
1941	2825	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	6000	3552	6527	3935	2300	2000	1700	1700	2648	1399
1943	4110	2451	3045	2180	2995	1731	1800	4200	6000	4715	2996	4500	4000	6600	4967	5271	2221	6600
1944	8866	8021	4560	2910	2995	1627	2226	4199	4608	2767	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	5000
1946	2738	2138	5850	5850	3133	2495	3531	1800	6000	5500	4500	4152	4000	3559	6600	6600	6600	6600
1947	5593	4597	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	6600
1948	5000	3603	2949	2818	3300	3300	4500	4200	6000	4010	4500	2386	4000	2670	5164	6599	6600	11476
1949	5943	5268	3971	3899	3300	3000	4500	4200	6000	4116	4500	4500	6347	4001	6599	4819	6333	5000
1950	5000	3727	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	2000	4132	3208	3168	13075
1951	13759	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6487	5515	6600
1952	5851	4901	3669	2712	3301	3301	4045	4156	4400	3270	2300	2300	4001	4000	3000	3000	4999	4999
1953	4939	2332	3726	3293	2901	1452	2174	2535	6000	5500	4501	3120	4000	6600	5409	2926	5115	6167
1954	5962	4454	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	4482	4316	5306	5056	1883	6601
1955	16407	10801	6853	5779	3701	3284	7587	4200	6000	3849	3244	3280	6270	6599	1700	1700	3300	6600
1956	9633	8626	5086	3263	3300	4714	7713	4201	6600	5500	6196	4179	3250	6600	1981	6600	6599	9294
1957	11146	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1200	2037	4200	6000	3066	2300	2719	2300	2732	3000	6600	5208	6566
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6726	1700	6059	6600
1960	9490	8285	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	1700	6600	6600
1961	5849	5665	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	3509	1700	6600	6600	10073
1962	7315	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	4501	2496	3694	1700	2999	1705	5000
1963	4503	3438	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3999	3000	6600	4900	4219
1964	2712	2367	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	1700	1775	6729	6601
1965	11621	8020	5029	3803	3300	3370	4500	4200	6000	5500	4499	2564	4000	4000	3000	3000	6599	6221
1966	5000	4238	4552	3268	3300	3300	4475	4200	4664	3802	2300	2300	4000	4000	3000	2999	5000	5000
1967	5795	5179	3977	2975	2983	2907	3364	5017	6000	6600	6599	6266	2300	6600	1700	1950	5897	13123
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	5462	4925	6623	6600
1969	6831	5804	3825	2964	3300	3000	4500	4200	6000	5500	3030	2300	4000	3999	6081	4556	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	3974	3729	2300	2300	6600	3537	1700	1700	4703	5000
1971	2874	2329	5439	3542	2303	1400	1800	4200	6001	6600	4500	6601	6600	2164	6600	2675	6600	6600
1972	7245	13037	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	4461	3121	4873	4143	3528	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6163	1700	1700	2926	13363
1975	13032	11016	7371	4371	3300	1813	2792	4200	6000	5500	4500	2300	3074	2000	2652	1700	6599	6600
1976	10629	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	5437	4737	1787	2292	6600
1977	11032	10743	7950	5196	3506	3000	2250	2163	6000	5042	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	2300	2300	3826	4000	4001	3000	1700	3860	5000

Date of Refill June 15 -- Target Refill Elevation 1580

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1537.0	1524.8	1518.5	1515.4	1511.6	1514.0	1533.0	1563.8	1575.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1530.0	1544.3	1554.8	1567.6	1582.0	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1491.0	1512.8	1534.4	1558.6	1580.0	1593.1
1933	1597.1	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1485.9	1487.4	1490.6	1514.4	1541.9	1579.2	1602.0
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1546.5	1568.9	1588.8	1597.5
1936	1600.4	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1547.5	1537.3	1526.3	1514.6	1507.8	1533.2	1548.7	1572.1	1589.3	1594.5
1937	1597.6	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1532.4	1519.4	1516.3	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1550.2	1543.3	1541.1	1537.0	1521.0	1526.6	1528.4	1558.2	1580.0	1593.6
1939	1597.8	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1531.2	1550.6	1575.7	1578.7	1586.7
1940	1594.9	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1539.8	1535.9	1535.3	1542.3	1555.8	1574.6	1577.9	1587.1
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1565.4	1551.2	1532.8	1520.8	1523.8	1532.5	1540.3	1564.9	1582.0	1594.3
1943	1598.7	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1553.1	1533.5	1529.5	1520.6	1529.4	1535.9	1534.9	1552.0	1580.0	1593.7
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1555.9	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1588.4
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1550.1	1522.8	1513.7	1504.5	1498.2	1511.5	1534.3	1566.9	1581.6	1590.8
1947	1597.6	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1598.3
1948	1600.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1533.6	1520.7	1516.6	1506.8	1517.2	1516.1	1556.9	1600.5	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1514.2	1503.2	1492.1	1479.7	1500.5	1534.2	1567.1	1586.0	1592.6
1950	1598.0	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1490.9	1504.7	1537.4	1580.0	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1564.3	1580.0	1593.3
1952	1600.6	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1539.4	1528.4	1523.7	1519.5	1514.7	1527.1	1543.2	1574.7	1586.8	1592.1
1953	1596.7	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.0	1550.9	1541.1	1536.2	1527.6	1522.5	1535.7	1562.9	1580.0	1585.5
1954	1598.8	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1500.6	1500.1	1513.5	1550.7	1580.0	1601.8
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1548.0	1540.9	1532.6	1520.0	1501.1	1510.8	1539.3	1580.0	1599.4
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1481.8	1480.0	1494.1	1522.4	1569.8	1595.4	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1545.6	1542.3	1542.0	1538.9	1538.9	1541.6	1557.9	1589.3	1600.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.1	1555.4	1580.0	1601.1
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1566.0	1586.5	1595.1
1961	1601.9	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1514.6	1530.2	1558.5	1593.7	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1527.9	1530.1	1536.2	1543.1	1559.4	1578.9	1594.0
1963	1597.4	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1552.1	1552.7	1567.9	1580.0	1589.1
1964	1597.1	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1507.0	1541.4	1580.0	1596.4
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1550.8	1537.0	1531.8	1531.1	1524.0	1533.7	1545.2	1569.4	1586.1	1593.0
1966	1600.3	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1550.0	1532.8	1529.4	1530.4	1538.7	1537.3	1560.1	1575.2	1586.5	1596.7
1967	1601.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1514.0	1512.4	1488.6	1508.8	1548.4	1580.0	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1535.7	1556.9	1580.0	1592.9
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1513.2	1513.0	1513.7	1520.0	1537.7	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1548.7	1538.1	1536.8	1534.8	1520.5	1513.7	1523.8	1554.6	1580.0	1592.5
1971	1598.4	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1548.9	1538.0	1529.5	1509.1	1487.8	1498.8	1533.0	1567.5	1584.9	1599.7
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1555.9	1544.2	1532.8	1520.8	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1479.0	1511.9	1539.0	1580.0	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1515.3	1508.3	1510.9	1529.5	1556.1	1582.3	1593.2
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1494.7	1526.8	1560.1	1580.0	1598.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1564.1	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1521.9	1519.3	1523.6	1523.0	1522.1	1533.0	1553.2	1580.0	1589.9

Plant ROSS -- Date of Refill June 15 -- Target Refill Elevation 1580

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill June 15 -- Target Refill Elevation 1580

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1934	89	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	348
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	25	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	65
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	124
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	135	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	207
1956	37	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	32	144
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	108
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	34	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	124
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1965	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	83
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	65
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	3	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	181
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	88
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
1976	47	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	68
1977	57	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant GORGE -- Date of Refill June 15 -- Target Refill Elevation 1580

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	106	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	383
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	43	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	95
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	170
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	156	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	272
1956	55	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	38	175
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	126
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	52	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	147
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	84	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	69
1969	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	19	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	235
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	99
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
1976	70	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	102
1977	76	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 6 - REFILL TO 1601.5 ON MAY 31
INTERIM FISHERIES AGREEMENT

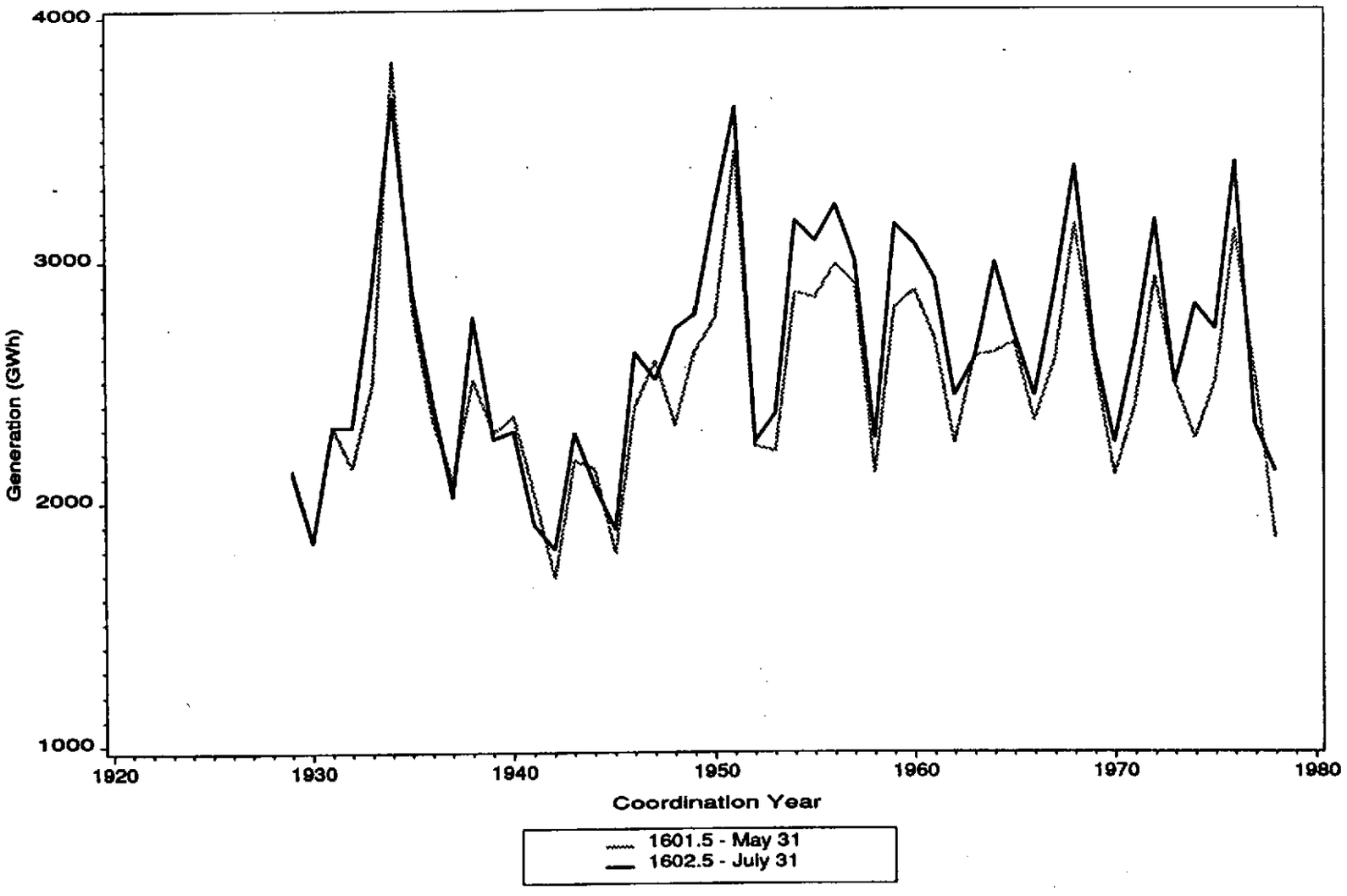
Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1601.5

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1601.5 - May 31	1602.5 - July 31	1601.5 - May 31	1602.5 - July 31	1601.5 - May 31
1929	812	892	1,311	1,239	2,123	2,131
1930	766	800	1,067	1,050	1,834	1,849
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	848	1,297	1,294	2,310	2,142
1933	1,015	1,088	1,898	1,408	2,914	2,497
1934	1,577	1,836	2,095	1,986	3,672	3,821
1935	1,296	1,396	1,589	1,420	2,886	2,815
1936	1,073	1,168	1,341	1,166	2,413	2,335
1937	862	931	1,160	1,160	2,021	2,091
1938	1,396	1,545	1,377	963	2,773	2,509
1939	969	1,010	1,288	1,274	2,257	2,284
1940	804	1,100	1,488	1,255	2,292	2,355
1941	622	800	1,283	1,233	1,905	2,033
1942	406	537	1,398	1,148	1,804	1,685
1943	899	1,285	1,386	882	2,285	2,167
1944	788	925	1,275	1,209	2,064	2,134
1945	728	630	1,157	1,157	1,885	1,787
1946	1,231	1,503	1,388	888	2,619	2,391
1947	984	1,477	1,520	1,108	2,504	2,585
1948	1,082	1,172	1,637	1,140	2,719	2,312
1949	1,151	1,485	1,627	1,142	2,779	2,627
1950	1,371	1,297	1,855	1,468	3,225	2,765
1951	1,557	1,641	2,072	1,807	3,628	3,447
1952	816	1,107	1,432	1,121	2,248	2,228
1953	1,063	1,280	1,300	926	2,363	2,206
1954	1,295	1,461	1,866	1,409	3,161	2,870
1955	1,268	1,542	1,812	1,305	3,080	2,847
1956	1,295	1,383	1,929	1,601	3,224	2,984
1957	1,287	1,513	1,716	1,394	3,004	2,906
1958	1,021	1,317	1,239	798	2,260	2,116
1959	1,398	1,406	1,746	1,403	3,144	2,809
1960	1,144	1,311	1,918	1,564	3,062	2,875
1961	1,210	1,326	1,709	1,350	2,919	2,676
1962	997	1,133	1,440	1,102	2,437	2,235
1963	942	1,154	1,651	1,451	2,593	2,605
1964	1,194	1,159	1,796	1,460	2,990	2,619
1965	1,056	1,485	1,647	1,179	2,703	2,664
1966	880	1,189	1,555	1,141	2,436	2,330
1967	1,133	1,279	1,752	1,309	2,884	2,588
1968	1,442	1,248	1,945	1,900	3,386	3,148
1969	997	1,443	1,622	1,124	2,619	2,567
1970	795	993	1,446	1,114	2,241	2,106
1971	1,215	1,396	1,436	992	2,650	2,388
1972	1,506	1,676	1,657	1,260	3,164	2,936
1973	1,014	1,150	1,472	1,344	2,485	2,494
1974	1,312	1,174	1,506	1,082	2,817	2,257
1975	1,241	1,524	1,476	973	2,717	2,497
1976	1,315	1,321	2,085	1,804	3,400	3,124
1977	903	1,223	1,413	1,304	2,316	2,528
1978	936	1,055	1,184	791	2,120	1,845

Synergic Resources Corporation -- 16NOV89

Annual Energy Production: Base Case vs. Early Refill

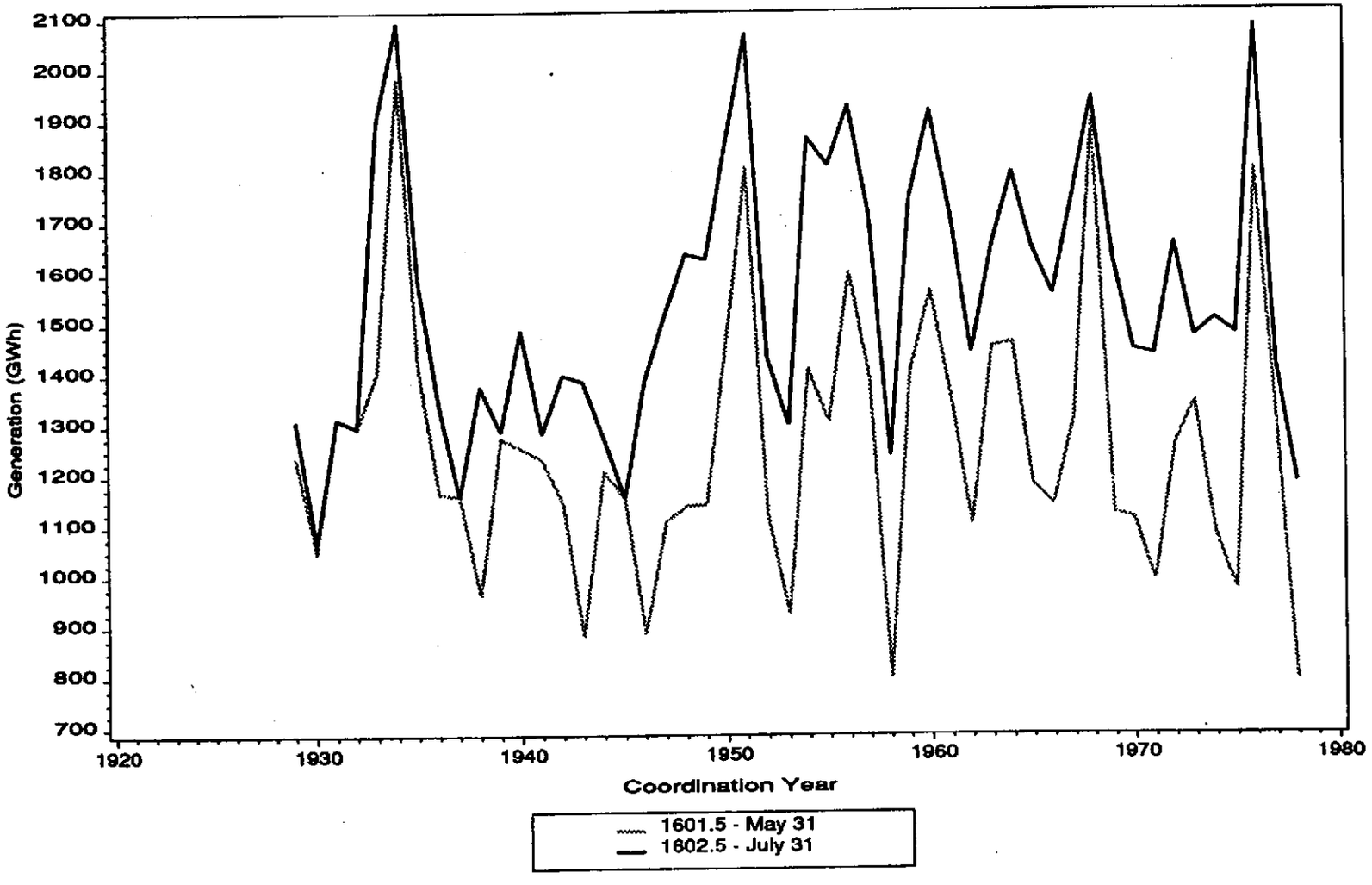
July 31 at 1602.5 vs. May 31 at 1601.5



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1601.5

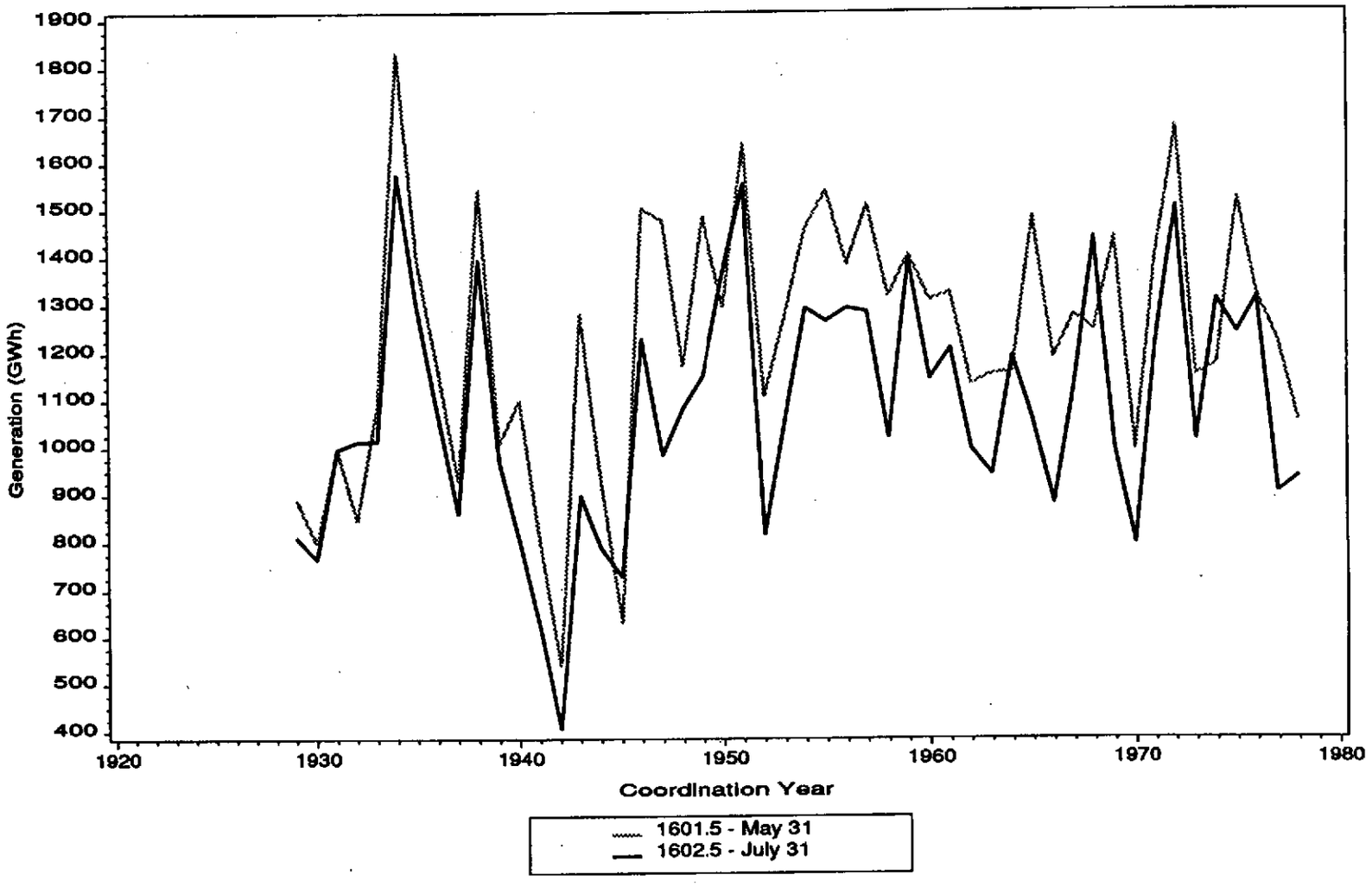
Energy Season=Winter



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1601.5

Energy Season=Summer



Synergic Resources Corporation – 17NOV89

Date of Refill May 31 -- Target Refill Elevation 1601.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	104	115	239	144	61	300	892	1,239	2,131
1930	168	151	67	65	129	198	207	123	260	105	74	302	800	1,050	1,849
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	195	82	61	227	848	1,294	2,142
1933	282	163	157	148	322	229	183	245	123	100	80	463	1,088	1,408	2,497
1934	437	270	163	249	358	295	360	332	229	339	416	373	1,836	1,986	3,821
1935	305	314	92	78	238	227	336	282	167	352	63	363	1,396	1,420	2,815
1936	343	184	146	145	137	166	100	116	357	89	178	374	1,168	1,166	2,335
1937	201	186	144	87	136	215	232	112	234	169	63	312	931	1,160	2,091
1938	302	320	116	101	193	222	96	115	120	149	354	420	1,545	963	2,509
1939	294	224	114	68	121	148	268	287	268	92	60	339	1,010	1,274	2,284
1940	297	193	149	83	163	217	194	334	115	98	171	342	1,100	1,255	2,355
1941	232	165	59	124	141	117	97	336	359	274	70	58	800	1,233	2,033
1942	56	101	54	42	236	223	105	115	371	100	67	213	537	1,148	1,685
1943	240	126	157	93	88	225	93	110	117	318	175	425	1,285	882	2,167
1944	406	190	154	81	118	230	138	248	239	165	66	99	925	1,209	2,134
1945	254	152	87	63	111	238	304	181	173	114	55	55	630	1,157	1,787
1946	192	321	157	122	183	94	100	112	121	208	375	408	1,503	888	2,391
1947	342	166	173	162	138	228	98	159	149	264	324	382	1,477	1,108	2,585
1948	259	146	171	158	242	228	101	114	125	102	241	424	1,172	1,140	2,312
1949	289	196	166	158	246	236	104	113	118	285	331	384	1,485	1,142	2,627
1950	305	306	134	109	324	242	318	165	176	103	100	483	1,297	1,468	2,765
1951	417	232	166	168	348	372	319	300	134	330	241	420	1,641	1,807	3,447
1952	331	158	167	169	217	232	103	109	123	94	153	372	1,107	1,121	2,228
1953	271	173	148	73	118	140	78	244	125	230	211	394	1,280	926	2,206
1954	357	191	162	168	262	227	235	232	123	110	349	453	1,461	1,409	2,870
1955	477	319	182	175	367	232	104	115	130	236	66	445	1,542	1,305	2,847
1956	396	208	168	216	375	233	372	113	123	92	262	426	1,383	1,601	2,984
1957	385	201	159	228	241	233	301	111	122	217	353	357	1,513	1,394	2,906
1958	308	222	82	55	104	232	95	106	123	106	313	370	1,317	798	2,116
1959	300	220	93	107	231	317	365	167	122	269	169	449	1,406	1,403	2,809
1960	381	180	209	246	356	230	293	109	121	136	210	404	1,311	1,564	2,875
1961	332	180	170	153	233	227	83	234	250	229	154	432	1,326	1,350	2,676
1962	318	232	141	80	156	230	265	103	127	97	93	393	1,133	1,102	2,235
1963	281	167	168	159	225	254	192	239	214	132	196	377	1,154	1,451	2,605
1964	258	167	163	183	294	226	228	242	125	232	66	436	1,159	1,460	2,619
1965	418	220	166	176	242	230	99	121	144	222	227	397	1,485	1,179	2,664
1966	305	190	174	172	233	229	100	114	119	98	206	390	1,189	1,141	2,330
1967	321	172	149	144	178	260	277	177	123	237	66	483	1,279	1,309	2,588
1968	350	181	161	210	308	228	356	310	327	233	64	420	1,248	1,900	3,148
1969	350	168	160	160	233	233	97	116	124	194	352	379	1,443	1,124	2,567
1970	218	151	146	179	226	233	99	109	122	346	65	213	993	1,114	2,106
1971	220	237	111	71	89	234	90	260	136	144	367	428	1,396	992	2,388
1972	409	237	170	178	206	226	99	102	280	280	295	454	1,676	1,260	2,936
1973	445	278	164	165	216	223	98	114	363	217	63	147	1,150	1,344	2,494
1974	207	198	89	56	112	224	300	144	156	212	73	483	1,174	1,082	2,257
1975	438	280	165	98	142	229	99	115	125	353	57	397	1,524	973	2,497
1976	372	168	170	166	312	383	366	286	120	104	238	439	1,321	1,804	3,124
1977	434	309	173	165	116	114	291	290	155	252	75	153	1,223	1,304	2,528
1978	301	188	62	59	118	229	101	109	111	103	69	393	1,055	791	1,845

Plant GORGE -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	1900	2305	4456	4421	3069	2841	1700	1700	6601	5622
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	2246	1700	1700	6622	5044
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3422	2300	2000	1700	1700	2093	9333
1933	6489	4666	3449	3134	2994	2807	6362	4200	3324	4761	2300	2300	2300	2000	1700	2008	13496	15179
1934	13212	9768	6220	4397	3301	6350	6854	5681	6600	6718	2322	6600	6600	7557	10646	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6443	5791	3957	2300	6599	6601	1700	1700	7040	8622
1936	6960	6695	3694	3526	2977	2676	2504	3023	1900	2300	6600	6600	2300	2308	3717	4290	10809	6936
1937	4981	3176	4048	3222	2833	1667	2473	3964	4162	2300	4625	4458	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	1900	2300	2300	2300	2300	3884	6599	6869	11957	11661
1939	6579	5037	3894	4384	2366	1400	2300	2808	4974	5716	4327	5745	2300	2000	1700	1768	6600	6601
1940	6272	5374	3568	3894	2871	1757	3195	4200	3501	6601	2300	2300	2300	2000	3663	3575	6600	6600
1941	5850	3186	3581	2912	1403	2769	2678	2347	1900	6599	6600	6599	6560	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	1900	2300	6600	6600	2300	2000	1700	1700	3240	5582
1943	5753	3836	3045	2180	2995	1731	1800	4200	1900	2300	2300	2300	5950	6600	3938	3231	11055	11718
1944	12193	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	1938
1946	4720	3151	5850	5850	3133	2495	3531	1800	1900	2300	2300	2300	5608	2708	6600	11233	11680	10010
1947	8139	6366	3713	3012	3300	3000	2598	4200	1900	3351	2300	3423	4880	5616	6600	6369	9364	7603
1948	5862	4330	2949	2818	3300	3300	4500	4200	1900	2300	2300	2300	2300	2000	1700	9968	22012	12261
1949	5943	5268	3971	3899	3300	3000	4500	4200	1900	2300	2300	2300	5286	6131	6599	7146	12984	7461
1950	7021	5346	5850	5612	2816	2209	6496	4395	5627	3356	2300	4316	2300	2000	1799	3018	16361	21520
1951	13759	8570	4967	4410	3300	3323	6663	7132	5676	6304	2622	2300	6600	6236	3534	6309	10476	11543
1952	8582	5624	3669	2712	3301	3301	4045	4156	1900	2300	2300	2300	2300	2000	1700	4952	8983	6986
1953	6642	4415	3726	3293	2901	1452	2174	2535	1900	4954	2300	2300	2300	6600	3157	5405	10547	8216
1954	10918	5804	4384	3329	3300	3300	4964	4200	4208	4743	2300	2300	2300	2233	6600	7118	11508	14775
1955	16678	10801	6853	5779	3701	3284	7587	4200	1900	2300	2300	2300	2300	6599	1700	1700	12179	13835
1956	10843	8626	5086	3263	3300	4714	7713	4201	6600	2300	2300	2300	2300	2000	2280	11466	15817	12010
1957	11146	7901	4134	3931	3300	4946	4509	4387	5263	2300	2300	2300	6600	2000	6600	8541	12231	6105
1958	5851	5851	5577	2939	1842	1200	2037	4200	1900	2300	2300	2300	2300	2000	4179	11207	9403	7360
1959	5851	5850	5850	2840	2075	2304	4500	6023	6569	3335	2300	2300	5506	5328	3732	3490	13871	14483
1960	10052	8285	4083	3168	4329	6054	6934	4200	5196	2300	2300	2300	2722	2949	6600	1969	13404	9794
1961	8438	5897	4035	3119	3300	3000	4455	4201	1900	4920	4553	4597	2300	6600	1700	5072	18564	13410
1962	7315	5850	5850	3444	2791	1773	2976	4200	4996	2300	2300	2300	2300	2000	1786	2413	7894	10595
1963	5786	5277	4113	2864	3300	3000	4500	4764	3524	4983	4230	3488	2300	2849	1799	5926	8656	7610
1964	5693	4311	3816	2849	3300	3636	5574	4200	4167	4746	2300	2300	2300	6600	1700	1775	15157	12701
1965	13966	8020	5029	3803	3300	3370	4500	4200	1900	2607	3090	2300	6600	2128	4859	4200	12116	8800
1966	7719	5065	4552	3268	3300	3300	4475	4200	1900	2300	2300	2300	2300	2000	5996	2518	8718	8790
1967	7624	5551	3977	2975	2983	2907	3364	5017	4998	3570	2300	2300	2300	6600	1700	1950	13710	21568
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6363	6609	5482	2300	6600	1700	1822	11176	11394
1969	10482	5804	3825	2964	3300	3000	4500	4200	1900	2300	2300	2300	2300	5453	6601	8271	15657	7499
1970	5120	3594	2485	3392	3086	3300	4231	4200	1900	2300	2300	2300	6600	6600	1700	1700	2503	7300
1971	5076	3818	5439	3542	2303	1400	1800	4200	1900	5427	2729	2343	3751	2000	6600	9486	12709	12123
1972	8338	13037	6431	3471	3300	3300	3920	4035	1900	2300	4329	6600	6599	4206	4423	8915	22675	14786
1973	15033	10064	6930	4533	3300	3000	3973	4200	1900	2300	6600	6600	6007	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	5701	2946	2300	3638	6235	2082	2146	1700	14620	21808
1975	13032	11016	7371	4371	3300	1813	2792	4200	1900	2300	2300	2300	6600	6600	1700	1700	8497	10645
1976	14159	5753	3497	3301	3300	3300	6010	7769	6601	5707	2300	2300	2300	2000	4967	4827	8667	13478
1977	12599	10743	7950	5196	3506	3000	2250	2163	5252	5870	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	1900	2300	2300	2300	2300	2000	1700	1700	10517	8701

Date of Refill May 31 -- Target Refill Elevation 1601.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1556.2	1545.6	1532.8	1520.8	1513.8	1514.0	1533.0	1563.8	1575.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1552.6	1566.7	1582.6	1588.1	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1476.3	1491.6	1513.2	1547.7	1570.3	1596.9	1602.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1582.2	1562.0	1559.1	1557.2	1558.0	1569.5	1583.2	1601.5	1602.5	1602.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.0	1575.3	1575.3	1581.5	1602.5	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1581.7	1581.1	1576.9	1576.6	1562.2	1551.5	1565.2	1589.2	1602.5	1602.5
1936	1602.5	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1569.8	1560.8	1544.3	1524.1	1524.3	1555.5	1578.0	1601.5	1602.5	1602.5
1937	1601.5	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.3	1516.6	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1576.4	1570.3	1570.3	1570.3	1570.8	1580.7	1581.9	1602.5	1602.5	1602.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1571.2	1544.5	1532.7	1521.7	1529.5	1546.0	1568.1	1594.4	1597.2	1600.8
1940	1602.5	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1584.3	1559.5	1560.0	1563.8	1568.3	1577.3	1586.6	1601.5	1601.8	1597.4
1941	1591.4	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1587.3	1561.4	1546.0	1529.7	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1589.4	1583.6	1568.0	1549.5	1551.9	1559.2	1565.7	1587.4	1601.5	1602.5
1943	1602.5	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1578.9	1575.2	1574.0	1574.6	1575.1	1580.1	1582.2	1601.5	1602.5	1602.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1596.7
1946	1601.5	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1576.2	1571.5	1571.4	1571.0	1562.5	1573.4	1589.1	1602.5	1602.5	1602.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1568.9	1566.4	1565.8	1569.8	1566.9	1572.2	1586.6	1601.5	1602.5	1602.5
1948	1602.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1576.2	1571.4	1568.2	1565.5	1563.6	1573.0	1582.0	1602.5	1602.5	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1563.4	1557.3	1556.3	1557.4	1553.9	1558.6	1582.3	1602.5	1602.5	1602.5
1950	1602.5	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1570.7	1561.9	1564.8	1557.9	1558.8	1565.0	1579.3	1601.5	1602.5	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1577.1	1572.1	1569.9	1569.1	1565.2	1564.8	1584.5	1601.5	1602.5	1602.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1556.5	1552.6	1548.8	1545.4	1547.2	1563.4	1580.2	1601.5	1602.5	1602.5
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1587.2	1579.8	1577.7	1576.2	1574.4	1570.7	1586.6	1601.5	1602.5	1602.5
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1578.4	1570.1	1571.0	1569.8	1571.1	1577.0	1581.6	1602.5	1602.5	1602.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1586.5	1582.5	1579.2	1575.6	1578.0	1565.0	1571.3	1591.5	1602.5	1602.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1543.6	1539.3	1536.3	1538.6	1561.6	1579.0	1602.5	1602.5	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1571.2	1568.2	1568.5	1567.7	1557.1	1565.2	1591.2	1602.5	1602.5	1602.5
1958	1599.7	1594.4	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1572.2	1573.5	1573.2	1571.8	1571.8	1576.3	1586.6	1602.5	1602.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.6	1568.5	1567.6	1567.2	1564.2	1567.2	1581.6	1601.5	1602.5	1602.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1568.6	1568.6	1565.6	1569.3	1580.8	1582.9	1588.9	1601.5	1602.5	1602.5
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1581.3	1578.6	1573.0	1567.7	1572.2	1563.2	1574.5	1601.5	1602.5	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1568.8	1575.4	1572.6	1569.7	1571.8	1581.5	1586.6	1601.5	1602.5	1602.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1588.2	1590.2	1586.5	1582.7	1583.1	1582.9	1586.6	1601.5	1602.5	1602.5
1964	1602.5	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1587.5	1572.6	1570.9	1569.2	1571.8	1560.9	1567.3	1591.9	1602.5	1602.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1576.9	1580.5	1580.4	1580.6	1567.9	1580.6	1584.5	1601.5	1602.5	1602.5
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1568.0	1561.4	1558.5	1559.4	1571.2	1576.1	1586.6	1601.5	1602.5	1602.5
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1579.6	1573.5	1571.1	1570.4	1569.3	1554.9	1566.7	1595.9	1602.5	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1575.4	1573.7	1566.6	1567.5	1555.1	1567.2	1594.1	1602.5	1602.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1577.8	1570.8	1566.6	1566.5	1572.1	1572.3	1583.7	1602.5	1602.5	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1562.6	1561.1	1560.0	1558.2	1546.1	1529.6	1538.6	1566.7	1596.3	1602.5
1971	1602.5	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1575.1	1572.0	1570.3	1569.0	1565.6	1571.7	1593.9	1602.5	1602.5	1602.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1562.1	1563.5	1568.7	1568.6	1563.1	1560.1	1574.6	1602.5	1602.5	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1572.0	1566.0	1550.2	1530.8	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1570.6	1566.4	1564.1	1564.6	1555.5	1563.4	1580.2	1598.7	1602.5	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1582.0	1577.0	1575.5	1572.5	1556.7	1543.6	1561.5	1584.0	1602.5	1602.5
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1560.1	1557.7	1556.4	1560.2	1564.5	1584.4	1601.5	1602.5	1602.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1568.7	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1556.3	1552.2	1550.2	1559.0	1563.7	1569.0	1580.8	1596.8	1602.5	1602.5

Plant ROSS -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	61
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	37	8	0	66
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	39
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	26
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	29	0	44
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157	0	157
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	43
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	42	135
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	15
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	18
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	34
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	27
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	84	0	94
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	29
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	59
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	47
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	0	112
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	0	67
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	36
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	37	89
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0	68
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	47
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174	0	174
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	48	111
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6

Plant DIABLO -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	122	220
1934	92	45	0	0	0	79	0	0	0	0	0	0	0	6	54	80	47	0	403
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
1936	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	0	56
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	68	142
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	69	129
1944	75	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	68	44	174
1947	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	8	60
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	216	76	334
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	8	93
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	211	347
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	51	66	241
1952	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	52
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	19	72
1954	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	112	234
1955	139	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	73	99	383
1956	55	24	0	0	0	28	24	0	0	0	0	0	0	0	0	64	128	73	394
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	23	75	0	207
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	35	5	101
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	108	207
1960	43	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	92	40	264
1961	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	92	277
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	50	66
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	10	34
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	117	84	202
1965	100	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	27	216
1966	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	26	61
1967	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	210	314
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	58	64	188
1969	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	124	8	197
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	83	74	194
1972	19	89	0	0	0	0	0	0	0	0	0	0	0	0	0	23	228	114	473
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	215	323
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	18	54	224
1976	100	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	25	94	241
1977	81	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	24	74

Plant GORGE -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	39
1933	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	127	236
1934	108	60	3	0	0	61	4	0	0	0	0	0	0	12	59	85	51	0	445
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	28	33
1936	15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	3	90
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	78	74	155
1939	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
1940	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	75	140
1944	93	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	74	49	195
1947	32	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	13	91
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	229	83	364
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	94	11	111
1950	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	222	382
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	56	72	299
1952	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	4	76
1953	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	22	89
1954	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	72	121	272
1955	160	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	82	107	464
1956	73	42	0	0	0	11	29	0	0	0	0	0	0	0	0	76	136	79	446
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	29	83	0	237
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	40	9	121
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	116	223
1960	61	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	100	46	302
1961	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177	100	314
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	58	95
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	13	42
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126	90	216
1965	120	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	31	264
1966	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	31	87
1967	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	223	352
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	67	70	205
1969	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	134	12	237
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	90	81	215
1972	35	113	7	0	0	0	0	0	0	0	0	0	0	0	0	35	239	121	549
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	226	344
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	26	59	292
1976	123	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	29	101	285
1977	99	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	30	86

ALTERNATIVE 7 - REFILL TO 1592.0 ON MAY 31
INTERIM FISHERIES AGREEMENT

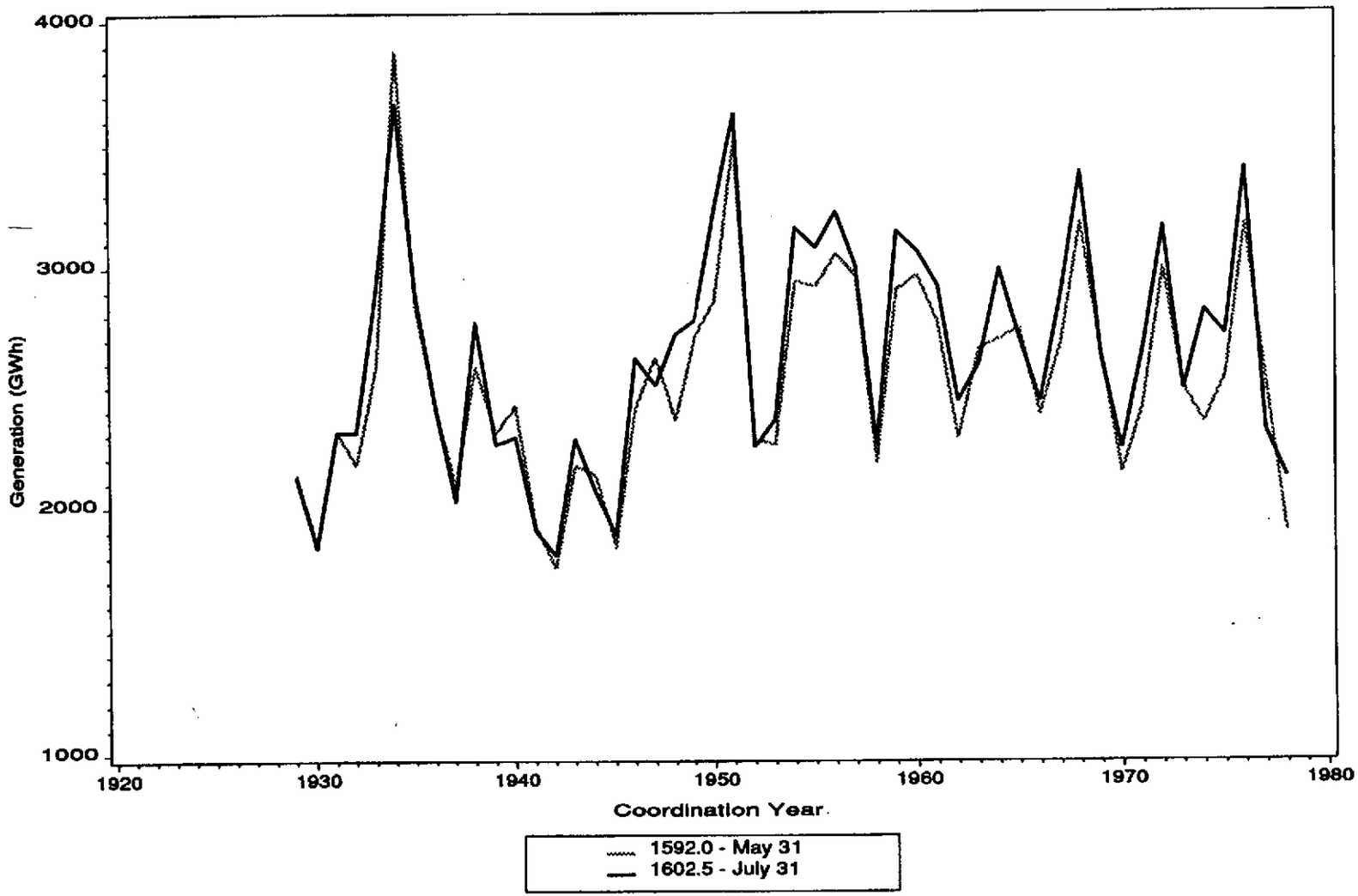
Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1592.0

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	1602.5 - July 31	1592.0 - May 31	1602.5 - July 31	1592.0 - May 31	1602.5 - July 31	1592.0 - May 31
1929	812	892	1,311	1,239	2,123	2,131
1930	766	800	1,067	1,050	1,834	1,849
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	879	1,297	1,294	2,310	2,174
1933	1,015	1,087	1,898	1,504	2,914	2,591
1934	1,577	1,802	2,095	2,082	3,672	3,885
1935	1,296	1,358	1,589	1,484	2,886	2,842
1936	1,073	1,236	1,341	1,166	2,413	2,402
1937	862	931	1,160	1,160	2,021	2,091
1938	1,396	1,590	1,377	997	2,773	2,587
1939	969	1,034	1,288	1,274	2,257	2,307
1940	804	1,071	1,488	1,349	2,292	2,421
1941	622	654	1,283	1,273	1,905	1,927
1942	406	569	1,398	1,182	1,804	1,751
1943	899	1,225	1,386	945	2,285	2,169
1944	788	925	1,275	1,209	2,064	2,134
1945	728	679	1,157	1,157	1,885	1,836
1946	1,231	1,426	1,388	980	2,619	2,406
1947	984	1,425	1,520	1,203	2,504	2,627
1948	1,082	1,146	1,637	1,216	2,719	2,362
1949	1,151	1,513	1,627	1,191	2,779	2,704
1950	1,371	1,296	1,855	1,562	3,225	2,858
1951	1,557	1,604	2,072	1,905	3,628	3,509
1952	816	1,160	1,432	1,121	2,248	2,281
1953	1,063	1,234	1,300	1,024	2,363	2,258
1954	1,295	1,436	1,866	1,504	3,161	2,940
1955	1,268	1,523	1,812	1,394	3,080	2,917
1956	1,295	1,449	1,929	1,601	3,224	3,050
1957	1,287	1,480	1,716	1,482	3,004	2,963
1958	1,021	1,383	1,239	798	2,260	2,181
1959	1,398	1,402	1,746	1,500	3,144	2,902
1960	1,144	1,325	1,918	1,638	3,062	2,963
1961	1,210	1,322	1,709	1,447	2,919	2,769
1962	997	1,128	1,440	1,158	2,437	2,285
1963	942	1,106	1,651	1,548	2,593	2,654
1964	1,194	1,141	1,796	1,556	2,990	2,697
1965	1,056	1,466	1,647	1,277	2,703	2,743
1966	880	1,242	1,555	1,141	2,436	2,383
1967	1,133	1,274	1,752	1,405	2,884	2,679
1968	1,442	1,237	1,945	1,945	3,386	3,181
1969	997	1,442	1,622	1,191	2,619	2,633
1970	795	1,025	1,446	1,114	2,241	2,138
1971	1,215	1,326	1,436	1,088	2,650	2,414
1972	1,506	1,673	1,657	1,321	3,164	2,994
1973	1,014	1,150	1,472	1,344	2,485	2,494
1974	1,312	1,173	1,506	1,177	2,817	2,349
1975	1,241	1,477	1,476	1,061	2,717	2,538
1976	1,315	1,297	2,085	1,876	3,400	3,173
1977	903	1,223	1,413	1,304	2,316	2,528
1978	936	1,102	1,184	791	2,120	1,893

Synergic Resources Corporation -- 16NOV89

Annual Energy Production: Base Case vs. Early Refill

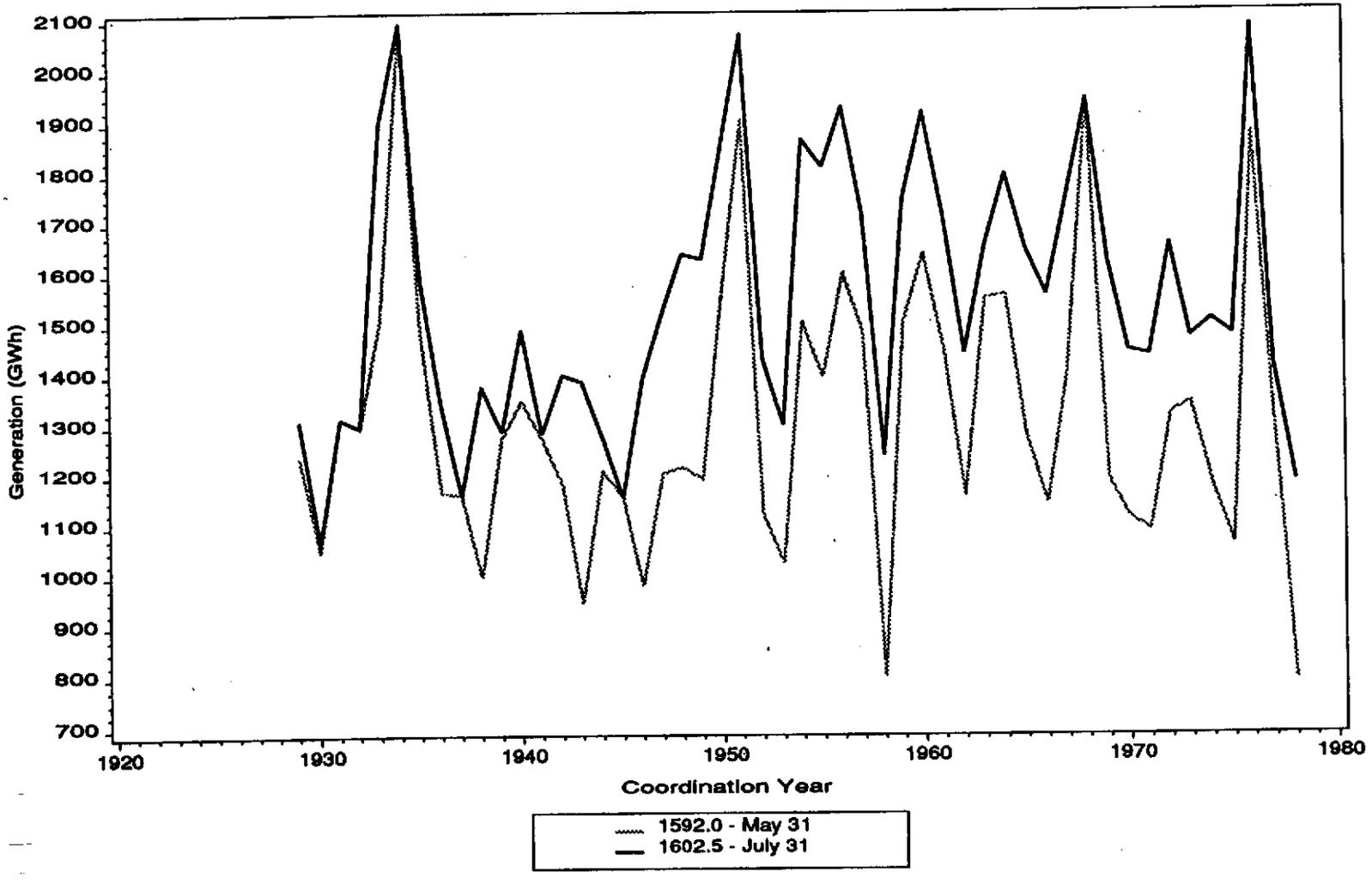
July 31 at 1602.5 vs. May 31 at 1592.0



Synergic Resources Corporation – 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1592.0

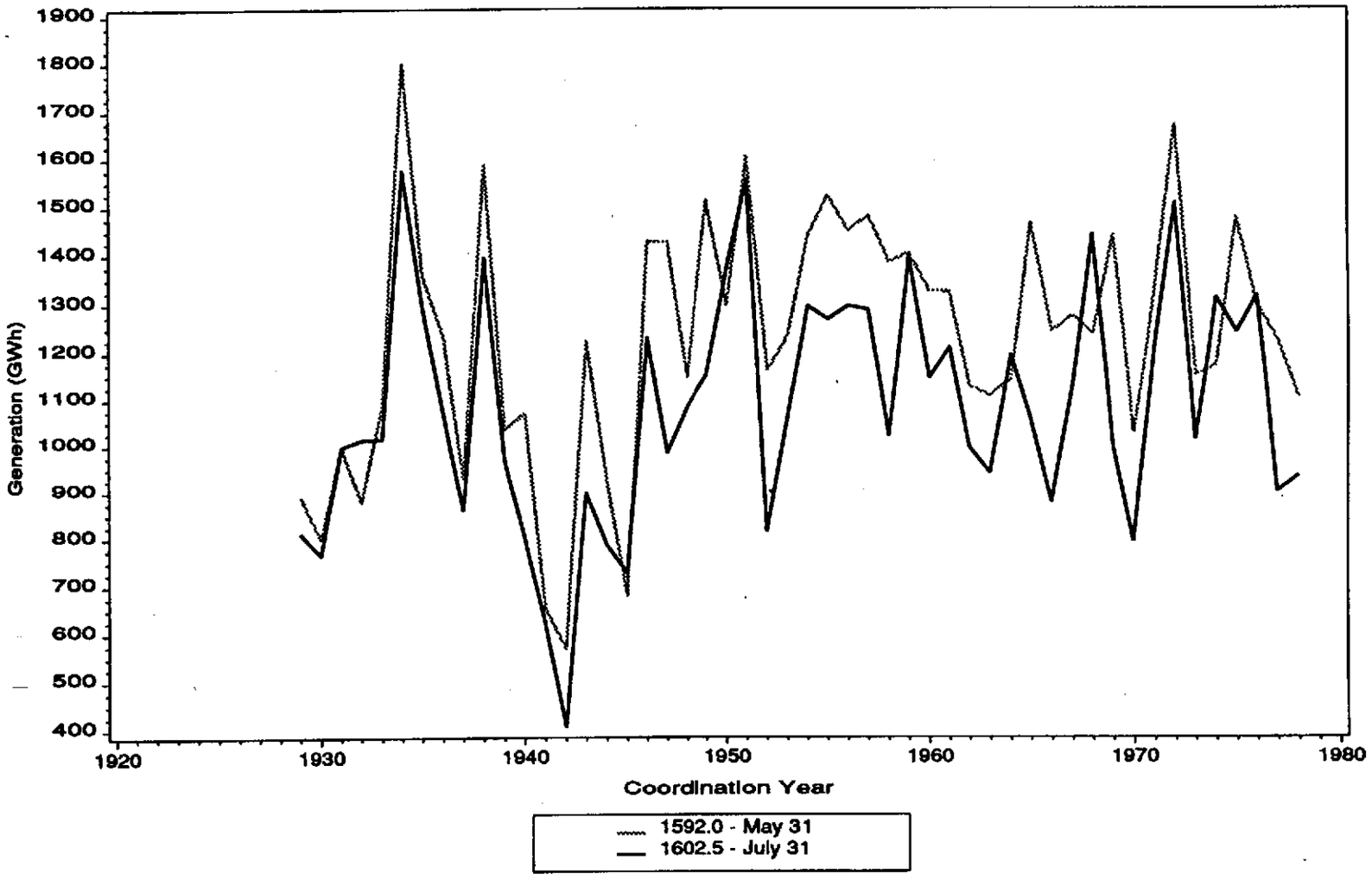
Energy Season=Winter



Synergic Resources Corporation -- 17NOV89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1592.0

Energy Season=Summer



Synergic Resources Corporation -- 17NOV89

Date of Refill May 31 -- Target Refill Elevation 1592

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	104	115	239	144	61	300	892	1,239	2,131
1930	168	151	67	65	129	198	207	123	260	105	74	302	800	1,050	1,849
1931	299	167	86	67	166	252	270	226	246	172	112	247	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	195	82	61	259	879	1,294	2,174
1933	282	163	157	148	322	229	284	241	121	99	79	463	1,087	1,504	2,591
1934	437	270	163	249	358	295	360	326	332	320	402	373	1,802	2,082	3,885
1935	305	314	92	78	238	227	345	324	181	349	63	328	1,358	1,484	2,842
1936	343	184	146	145	137	166	100	116	357	89	276	343	1,236	1,166	2,402
1937	201	186	144	87	136	215	232	112	234	169	63	312	931	1,160	2,091
1938	302	320	116	101	193	222	131	115	120	212	344	412	1,590	997	2,587
1939	294	224	114	68	121	148	326	228	268	92	84	339	1,034	1,274	2,307
1940	273	193	149	83	163	217	294	330	113	97	170	338	1,071	1,349	2,421
1941	130	165	59	124	141	117	197	332	304	231	70	58	654	1,273	1,927
1942	56	101	54	42	236	223	142	115	370	100	67	245	569	1,182	1,751
1943	168	126	157	93	88	225	141	110	131	333	192	405	1,225	945	2,169
1944	406	190	154	81	118	230	138	248	239	165	66	99	925	1,209	2,134
1945	254	152	87	63	111	238	304	181	173	114	55	104	679	1,157	1,836
1946	142	321	157	122	183	94	151	129	145	212	344	408	1,426	980	2,406
1947	342	166	173	162	138	228	169	185	147	262	320	335	1,425	1,203	2,627
1948	259	146	171	158	242	228	180	113	124	102	215	424	1,146	1,216	2,362
1949	289	196	166	158	246	236	104	113	168	330	316	382	1,513	1,191	2,704
1950	305	306	134	109	324	242	373	207	173	102	100	483	1,296	1,562	2,858
1951	417	232	166	168	348	372	338	315	198	325	240	390	1,604	1,905	3,509
1952	331	158	167	169	217	232	103	109	123	126	219	327	1,160	1,121	2,281
1953	257	173	148	73	118	140	107	314	124	228	208	367	1,234	1,024	2,258
1954	357	191	162	168	262	227	336	229	121	109	334	444	1,436	1,504	2,940
1955	477	319	182	175	367	232	196	114	128	233	66	428	1,523	1,394	2,917
1956	396	208	168	216	375	233	372	113	123	157	262	426	1,449	1,601	3,050
1957	385	201	159	228	241	233	343	128	151	214	323	357	1,480	1,482	2,963
1958	308	222	82	55	104	232	95	106	123	139	345	370	1,383	798	2,181
1959	300	220	93	107	231	317	367	264	121	265	168	449	1,402	1,500	2,902
1960	381	180	209	246	356	230	369	108	120	157	208	398	1,325	1,638	2,963
1961	332	180	170	153	233	227	83	321	260	226	152	432	1,322	1,447	2,769
1962	318	232	141	80	156	230	322	103	126	124	107	347	1,128	1,158	2,285
1963	281	167	168	159	225	254	292	236	213	130	194	333	1,106	1,548	2,654
1964	244	167	163	183	294	226	328	240	124	229	65	436	1,141	1,556	2,697
1965	418	220	166	176	242	230	99	221	143	219	225	383	1,466	1,277	2,743
1966	305	190	174	172	233	229	100	114	119	161	241	345	1,242	1,141	2,383
1967	321	172	149	144	178	260	335	217	122	234	66	481	1,274	1,405	2,679
1968	350	181	161	210	308	228	356	322	359	232	64	409	1,237	1,945	3,181
1969	350	168	160	160	233	233	131	150	123	222	323	379	1,442	1,191	2,633
1970	218	151	146	179	226	233	99	109	122	346	65	245	1,025	1,114	2,138
1971	193	237	111	71	89	234	90	320	173	142	325	428	1,326	1,088	2,414
1972	409	237	170	178	206	226	99	102	341	313	260	454	1,673	1,321	2,994
1973	445	278	164	165	216	223	98	114	363	217	63	147	1,150	1,344	2,494
1974	207	198	89	56	112	224	351	190	153	211	73	483	1,173	1,177	2,349
1975	438	280	165	98	142	229	190	114	123	349	57	354	1,477	1,061	2,538
1976	372	168	170	166	312	383	366	331	147	107	257	394	1,297	1,876	3,173
1977	434	309	173	165	116	114	291	290	155	252	75	153	1,223	1,304	2,528
1978	301	188	62	59	118	229	101	109	111	175	69	369	1,102	791	1,893

Plant GORGE -- Date of Refill May 31 -- Target Refill Elevation 1592

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	1900	2305	4456	4421	3069	2841	1700	1700	6601	5622
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	2246	1700	1700	6622	5044
1931	5851	5495	2962	3648	1888	1400	3069	4490	5173	4769	4644	5103	2607	4814	3786	1700	5544	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3422	2300	2000	1700	1700	3912	7514
1933	6489	4666	3449	3134	2994	2807	6362	4200	5075	4743	2300	2300	2300	2000	1700	2001	9920	15179
1934	13212	9768	6220	4397	3301	6350	6854	5681	6600	6600	6111	6600	6600	6601	8033	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	2300	6599	6601	1700	1700	6600	6685
1936	6960	6695	3694	3526	2977	2676	2504	3023	1900	2300	6600	6600	2300	2308	6600	4940	7233	6936
1937	5000	3158	4048	3222	2833	1667	2473	3964	4162	2300	4625	4458	4729	2483	1700	1700	6600	6600
1938	5850	5850	5850	5850	2343	2125	3887	4200	2511	2300	2300	2300	3222	5263	6599	6599	8680	11661
1939	6579	5037	3894	4384	2366	1400	2300	2808	6000	4580	4327	5745	2300	2000	1700	2598	6600	6601
1940	5903	4890	3568	3894	2871	1757	3195	4200	5223	6601	2300	2300	2300	2000	3678	3576	6600	6592
1941	3092	2426	3581	2912	1403	2769	2678	2347	3622	6599	6545	4841	4932	4511	1700	1700	2006	1197
1942	1584	1526	1325	3024	1400	1200	4500	4200	2524	2300	6600	6600	2300	2000	1700	1700	5001	5001
1943	4762	2451	3045	2180	2995	1731	1800	4200	2747	2300	2300	2793	6600	6600	4597	3223	7479	11718
1944	12193	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1700	1700	3242	1611
1945	5084	4784	3133	2929	2045	1400	2263	4456	5818	4012	3489	3358	2300	2650	1700	1766	1513	3675
1946	4064	2138	5850	5850	3133	2495	3531	1800	2800	2632	2300	3151	5791	2740	6600	7856	11680	10010
1947	8139	6366	3713	3012	3300	3000	2598	4200	3150	3885	2300	3416	4874	5652	6600	6345	6600	6791
1948	5862	4330	2949	2818	3300	3300	4500	4200	3268	2300	2300	2300	2300	2000	2393	6668	22012	12261
1949	5943	5268	3971	3899	3300	3000	4500	4200	1900	2300	3317	3045	6600	6552	6599	6599	10020	7461
1950	7021	5346	5850	5612	2816	2209	6496	4395	6600	4198	2300	4285	2300	2000	1833	3013	12785	21520
1951	13759	8570	4967	4410	3300	3323	6663	7132	5999	6600	5007	2300	6600	6187	3544	6318	6900	11543
1952	8582	5624	3669	2712	3301	3301	4045	4156	1900	2300	2300	2300	2300	3196	2911	6049	6599	6468
1953	5967	4415	3726	3293	2901	1452	2174	2535	2407	6321	2300	2300	2300	6600	3132	5406	6971	8216
1954	10918	5804	4384	3329	3300	3300	4964	4200	5958	4724	2300	2300	2300	2253	6600	6601	8457	14775
1955	16678	10801	6853	5779	3701	3284	7587	4200	3477	2300	2300	2300	2300	6599	1700	1700	8920	13835
1956	10843	8626	5086	3263	3300	4714	7713	4201	6600	2300	2300	2300	2300	4399	3452	8118	15817	12010
1957	11146	7901	4134	3931	3300	4946	4509	4387	6000	2638	2300	3341	6600	2000	6600	6600	11036	6105
1958	5851	5851	5577	2939	1842	1200	2037	4200	1900	2300	2300	2300	2300	3193	6561	7855	9403	7360
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	5224	2300	2300	5514	5307	3753	3471	10295	14483
1960	10052	8285	4083	3168	4329	6054	6934	4200	6532	2300	2300	2300	3563	2923	6600	1969	9828	9794
1961	8438	5897	4035	3119	3300	3000	4455	4201	1900	6601	4983	4620	2300	6600	1700	5057	14988	13410
1962	7315	5850	5850	3444	2791	1773	2976	4200	6000	2300	2300	2300	2300	2986	2299	2414	6600	8313
1963	5786	5277	4113	2864	3300	3000	4500	4764	5255	4983	4224	3518	2300	2823	1798	5927	6600	6601
1964	5182	4311	3816	2849	3300	3636	5574	4200	5896	4762	2300	2300	2300	6600	1700	1775	11555	12701
1965	13966	8020	5029	3803	3300	3370	4500	4200	1900	4531	3087	2300	6600	2136	4831	4209	8540	8800
1966	7719	5065	4552	3268	3300	3300	4475	4200	1900	2300	2300	2300	3049	3529	6600	3168	6600	7332
1967	7624	5551	3977	2975	2983	2907	3364	5017	6000	4372	2300	2300	2300	6600	1700	1950	10141	21568
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	2300	6600	1700	1822	9551	11394
1969	10482	5804	3825	2964	3300	3000	4500	4200	2495	2961	2300	2300	3264	5595	6601	6600	13870	7499
1970	5120	3594	2485	3392	3086	3300	4231	4200	1900	2300	2300	2300	6600	6600	1700	1700	4122	6600
1971	5000	3027	5439	3542	2303	1400	1800	4200	1900	6600	4130	2331	3758	2000	6600	6600	12204	12123
1972	8338	13037	6431	3471	3300	3300	3920	4035	1900	2305	6600	6600	6599	5477	4475	6599	21543	14786
1973	15033	10064	6930	4533	3300	3000	3973	4200	1900	2300	6600	6600	6007	2671	1700	1818	3360	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	3868	2300	3610	6233	2105	2156	1700	11040	21808
1975	13032	11016	7371	4371	3300	1813	2792	4200	3477	2300	2300	2300	6600	6600	1700	1700	6599	9284
1976	14159	5753	3497	3301	3300	3300	6010	7769	6601	6600	3325	2300	2300	2139	5732	4808	6600	11969
1977	12599	10743	7950	5196	3506	3000	2250	2163	5252	5870	3222	2623	5034	5067	1700	1700	4770	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	1900	2300	2300	2300	4000	2937	1700	1700	7880	8701

Date of Refill May 31 -- Target Refill Elevation 1592

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1556.2	1545.6	1532.8	1520.8	1513.8	1514.0	1533.0	1563.8	1575.7	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1552.6	1566.7	1582.6	1588.1	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.0	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1555.8	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1476.3	1491.6	1513.2	1547.7	1570.3	1592.0	1602.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1571.9	1550.4	1547.3	1545.3	1546.2	1558.7	1573.1	1592.0	1602.5	1602.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1564.7	1564.7	1571.2	1595.7	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1569.6	1554.6	1543.7	1557.9	1582.8	1597.5	1602.5
1936	1602.5	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1569.8	1560.8	1544.3	1524.1	1524.3	1555.5	1569.4	1592.0	1602.5	1602.5
1937	1601.5	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.3	1516.6	1504.6	1492.7	1497.2	1521.1	1550.3	1576.7	1594.1
1938	1600.1	1597.7	1590.3	1580.1	1577.6	1579.4	1577.9	1572.5	1572.6	1566.5	1566.5	1566.6	1564.3	1570.4	1571.7	1593.9	1602.5	1602.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1544.5	1532.7	1521.7	1529.5	1546.0	1568.1	1592.0	1594.8	1598.5
1940	1601.2	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1574.4	1547.7	1548.3	1552.5	1557.5	1566.8	1576.9	1592.0	1592.3	1587.8
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1577.7	1549.8	1533.9	1523.0	1518.8	1518.7	1531.7	1543.8	1555.3	1563.6
1942	1569.5	1574.3	1577.4	1574.7	1580.2	1596.1	1590.5	1592.1	1585.9	1580.1	1564.1	1545.2	1547.7	1554.9	1561.9	1583.9	1593.4	1596.0
1943	1598.7	1602.5	1602.5	1602.5	1594.1	1590.0	1588.7	1578.7	1573.8	1570.0	1568.8	1567.8	1566.4	1571.7	1572.0	1592.0	1602.5	1602.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1530.8	1549.8	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1567.9	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1492.9	1492.5	1524.0	1555.2	1579.1	1592.0
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.1	1570.7	1564.1	1564.0	1560.9	1551.0	1562.7	1579.5	1602.5	1602.5	1602.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1561.2	1555.3	1554.6	1559.1	1555.9	1561.5	1576.8	1592.0	1600.5	1602.5
1948	1602.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1567.8	1563.0	1559.8	1556.8	1554.7	1564.6	1572.0	1602.5	1602.5	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1563.4	1557.3	1552.9	1551.4	1543.6	1546.9	1572.3	1594.7	1602.5	1602.5
1950	1602.5	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1550.3	1553.5	1546.2	1547.1	1553.9	1568.8	1592.0	1602.5	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1559.1	1558.2	1553.8	1553.6	1574.6	1592.0	1602.5	1602.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1556.5	1552.6	1548.8	1545.4	1547.2	1559.8	1573.3	1592.0	1599.5	1600.8
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1584.4	1569.3	1567.0	1565.5	1563.7	1560.0	1576.9	1592.0	1602.5	1602.5
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1567.7	1559.4	1560.3	1559.1	1560.5	1566.3	1571.3	1594.5	1602.5	1602.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1577.7	1573.3	1569.7	1565.9	1568.3	1554.8	1561.6	1582.7	1602.5	1602.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1543.6	1539.3	1536.3	1538.6	1553.9	1568.5	1602.5	1602.5	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1561.8	1562.1	1557.8	1546.3	1555.0	1582.4	1599.5	1602.5	1602.5
1958	1599.7	1594.4	1587.2	1585.3	1586.3	1588.0	1584.8	1570.0	1572.2	1573.5	1573.2	1571.8	1571.8	1572.8	1576.9	1602.5	1602.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1557.6	1556.6	1556.2	1552.8	1556.2	1571.3	1592.0	1602.5	1602.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1560.4	1557.1	1561.1	1570.4	1572.8	1579.3	1592.0	1602.5	1602.5
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1581.3	1569.3	1562.4	1556.7	1561.6	1551.7	1563.9	1592.0	1602.5	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1569.3	1566.4	1563.5	1565.7	1572.8	1576.9	1592.0	1596.5	1602.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1578.6	1580.6	1576.8	1572.5	1572.9	1572.8	1576.9	1592.0	1598.6	1601.2
1964	1602.5	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.9	1561.9	1560.2	1558.4	1561.1	1549.1	1556.3	1582.2	1602.5	1602.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1576.9	1570.1	1570.0	1570.2	1556.9	1570.2	1574.6	1592.0	1602.5	1602.5
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1568.0	1561.4	1558.5	1559.4	1569.0	1569.3	1578.9	1592.0	1598.7	1602.5
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1562.9	1560.5	1559.8	1558.5	1543.1	1555.6	1586.4	1602.5	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1562.6	1549.8	1562.4	1589.7	1602.5	1602.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1574.1	1563.5	1559.3	1559.1	1561.9	1561.7	1573.8	1597.9	1602.5	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1562.6	1561.1	1560.0	1558.2	1546.1	1529.6	1538.6	1566.7	1592.0	1600.2
1971	1600.4	1602.5	1595.3	1591.6	1589.4	1588.4	1586.9	1571.3	1575.1	1565.5	1559.6	1558.2	1554.4	1561.0	1584.3	1601.2	1602.5	1602.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1562.1	1563.5	1561.9	1561.9	1555.9	1548.4	1563.9	1599.6	1602.5	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1572.0	1566.0	1550.2	1530.8	1513.8	1514.0	1528.2	1558.3	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1555.3	1552.8	1553.4	1543.8	1552.0	1569.8	1589.1	1602.5	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1572.8	1567.3	1565.8	1562.8	1545.9	1532.2	1551.0	1574.9	1599.0	1602.5
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1548.8	1547.5	1551.4	1555.7	1574.4	1592.0	1598.6	1602.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1568.7	1545.6	1541.1	1536.8	1528.2	1528.4	1541.1	1549.9	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1556.3	1552.2	1550.2	1559.0	1558.5	1561.2	1573.2	1589.7	1602.5	1602.5

Plant ROSS -- Date of Refill May 31 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	29
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157	0	157
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	42	80
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	0	84
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	0	56
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	40
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	39
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157	0	157
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	48	56
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant DIABLO -- Date of Refill May 31 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	122	166
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	80	47	0	358
1934	92	45	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
1936	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	68	93
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	69	76
1944	75	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	68	44	120
1947	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	216	76	293
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	8	49
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	211	293
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	66	190
1952	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
1954	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	112	188
1955	139	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	24	99	334
1956	55	24	0	0	0	28	24	0	0	0	0	0	0	0	0	10	128	73	341
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	57	0	166
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	35	5	47
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	108	154
1960	43	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	38	40	210
1961	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	92	224
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	19
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	63	84	148
1965	100	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	27	162
1966	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	14
1967	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	210	260
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	34	64	163
1969	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	8	155
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	74	150
1972	19	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211	114	433
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	215	269
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	185
1976	100	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	72	193
1977	81	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	24	34

Plant GORGE -- Date of Refill May 31 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	127	182
1933	7	0	0	0	0	0	0	0	0	0	0	0	0	0	20	85	51	0	393
1934	108	60	3	0	0	61	4	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	3	36
1936	15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	74	103
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
1939	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	75	86
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
1944	93	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	74	49	141
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	39
1947	32	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	229	83	312
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	11	60
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91	222	328
1950	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	72	245
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	39
1952	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	22	26
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	121	220
1954	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	107	415
1955	160	77	13	0	0	0	26	0	0	0	0	0	0	0	0	22	136	79	393
1956	73	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	65	0	190
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	18	40	9	67
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	116	170
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	46	248
1960	61	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	124	100	261
1961	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	44
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	90	162
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	31	210
1965	120	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	35
1966	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	223	298
1967	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	70	181
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	107	12	186
1969	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	81	163
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222	121	498
1972	35	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	65	226	291
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	245
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	233
1976	123	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	205
1977	99	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	17	30	47
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

ALTERNATIVE 8 - REFILL TO 1602.5 ON JULY 31
LICENSE REQUIREMENT FISHERIES FLOWS

Energy Production: Base Case (Interim) vs. Early Refill (License)
July 31 at 1602.5 vs. July 31 at 1602.5 License Minimum Flow Scenario

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	Base Case	1602.5 - July 31	Base Case	1602.5 - July 31	Base Case	1602.5 - July 31
1929	812	846	1,311	1,280	2,123	2,126
1930	766	766	1,067	1,067	1,834	1,834
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	1,013	1,297	1,297	2,310	2,310
1933	1,015	1,015	1,898	1,898	2,914	2,914
1934	1,577	1,577	2,095	2,095	3,672	3,672
1935	1,296	1,296	1,589	1,589	2,886	2,886
1936	1,073	1,073	1,341	1,341	2,413	2,413
1937	862	862	1,160	1,160	2,021	2,022
1938	1,396	1,408	1,377	1,366	2,773	2,774
1939	969	969	1,288	1,288	2,257	2,257
1940	804	804	1,488	1,488	2,292	2,292
1941	622	623	1,283	1,283	1,905	1,906
1942	406	386	1,398	1,398	1,804	1,784
1943	899	924	1,386	1,383	2,285	2,306
1944	788	816	1,275	1,250	2,064	2,065
1945	728	728	1,157	1,157	1,885	1,885
1946	1,231	1,233	1,388	1,386	2,619	2,619
1947	984	984	1,520	1,520	2,504	2,504
1948	1,082	1,082	1,637	1,637	2,719	2,719
1949	1,151	1,151	1,627	1,627	2,779	2,779
1950	1,371	1,371	1,855	1,855	3,225	3,225
1951	1,557	1,557	2,072	2,072	3,628	3,628
1952	816	882	1,432	1,374	2,248	2,257
1953	1,063	1,063	1,300	1,300	2,363	2,363
1954	1,295	1,295	1,866	1,866	3,161	3,161
1955	1,268	1,268	1,812	1,812	3,080	3,080
1956	1,295	1,295	1,929	1,929	3,224	3,224
1957	1,287	1,287	1,716	1,716	3,004	3,004
1958	1,021	1,021	1,239	1,239	2,260	2,260
1959	1,398	1,398	1,746	1,746	3,144	3,144
1960	1,144	1,144	1,918	1,918	3,062	3,062
1961	1,210	1,210	1,709	1,709	2,919	2,919
1962	997	997	1,440	1,440	2,437	2,437
1963	942	942	1,651	1,651	2,593	2,593
1964	1,194	1,194	1,796	1,796	2,990	2,990
1965	1,056	1,056	1,647	1,647	2,703	2,703
1966	880	893	1,555	1,545	2,436	2,438
1967	1,133	1,133	1,752	1,752	2,884	2,884
1968	1,442	1,442	1,945	1,945	3,386	3,386
1969	997	997	1,622	1,622	2,619	2,619
1970	795	807	1,446	1,434	2,241	2,241
1971	1,215	1,222	1,436	1,429	2,650	2,651
1972	1,506	1,506	1,657	1,657	3,164	3,164
1973	1,014	1,042	1,472	1,447	2,485	2,489
1974	1,312	1,312	1,506	1,506	2,817	2,817
1975	1,241	1,241	1,476	1,476	2,717	2,717
1976	1,315	1,315	2,085	2,085	3,400	3,400
1977	903	904	1,413	1,413	2,316	2,317
1978	936	936	1,184	1,184	2,120	2,120

Synergic Resources Corporation -- 22JAN90

Analysis of Low Fisheries Flow Scenarios
Date of Refill July 31 -- Target Refill Elevation 1602.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	301	96	102	101	107	253	846	1,280	2,126
1930	168	151	67	65	129	198	207	240	161	188	147	113	766	1,067	1,834
1931	299	167	86	65	169	252	270	226	246	172	102	258	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	173	138	225	1,013	1,297	2,310
1933	132	163	157	148	322	229	369	331	342	196	302	221	1,015	1,898	2,914
1934	217	270	163	249	358	295	360	326	345	320	397	373	1,577	2,095	3,672
1935	305	314	92	78	238	227	345	324	287	300	136	242	1,296	1,589	2,886
1936	304	184	146	145	137	166	294	226	227	172	185	228	1,073	1,341	2,413
1937	113	186	144	87	136	215	306	93	179	169	83	312	862	1,160	2,022
1938	301	323	91	101	193	222	328	271	159	187	325	272	1,408	1,366	2,774
1939	138	224	114	68	121	148	326	275	236	189	131	288	969	1,288	2,257
1940	146	193	149	83	163	217	338	302	235	195	131	140	804	1,488	2,292
1941	110	165	59	124	141	117	334	272	237	219	34	95	623	1,283	1,906
1942	56	101	50	37	237	232	342	274	226	132	46	50	386	1,398	1,784
1943	109	126	157	93	84	225	326	268	230	248	178	263	924	1,383	2,306
1944	339	190	154	81	118	230	322	242	103	121	38	128	816	1,250	2,065
1945	254	152	87	57	117	238	304	181	173	114	95	113	728	1,157	1,885
1946	88	321	157	122	183	92	332	269	232	204	308	312	1,233	1,386	2,619
1947	209	166	173	162	138	228	329	261	229	185	142	283	984	1,520	2,504
1948	211	146	171	158	242	228	334	270	234	185	251	289	1,082	1,637	2,719
1949	266	196	166	158	246	236	334	264	222	176	247	266	1,151	1,627	2,779
1950	205	306	134	109	324	242	373	327	345	268	306	285	1,371	1,855	3,225
1951	353	232	166	168	348	372	338	315	365	330	325	317	1,557	2,072	3,628
1952	232	158	167	169	217	232	270	261	58	185	126	182	882	1,374	2,257
1953	136	173	148	73	118	140	313	266	243	263	226	265	1,063	1,300	2,363
1954	177	191	162	168	262	227	372	322	353	314	305	307	1,295	1,866	3,161
1955	328	319	182	175	367	232	340	274	242	244	131	246	1,268	1,812	3,080
1956	279	208	168	216	375	233	372	273	293	217	282	309	1,295	1,929	3,224
1957	364	201	159	228	241	233	343	273	240	208	237	277	1,287	1,716	3,004
1958	308	215	82	52	107	232	326	263	176	98	175	225	1,021	1,239	2,260
1959	303	151	93	107	231	317	367	334	297	317	325	303	1,398	1,746	3,144
1960	293	180	209	246	356	230	369	270	238	193	165	313	1,144	1,918	3,062
1961	241	180	170	153	233	227	316	257	353	276	225	288	1,210	1,709	2,919
1962	314	232	141	80	156	230	322	266	245	191	123	136	997	1,440	2,437
1963	113	167	168	159	225	254	335	262	247	207	243	213	942	1,651	2,593
1964	112	167	163	183	294	226	334	333	265	329	285	301	1,194	1,796	2,990
1965	259	220	166	176	242	230	332	264	238	190	133	253	1,056	1,647	2,703
1966	223	190	174	172	233	229	330	267	139	188	81	212	893	1,545	2,438
1967	150	172	149	144	178	260	335	331	355	266	280	265	1,133	1,752	2,884
1968	276	181	161	210	308	228	356	322	359	347	332	305	1,442	1,945	3,386
1969	230	168	160	160	233	233	330	273	232	184	137	277	997	1,622	2,619
1970	218	151	146	179	226	233	226	266	157	170	119	149	807	1,434	2,241
1971	59	232	111	60	91	235	322	312	297	315	305	311	1,222	1,429	2,651
1972	270	237	170	178	206	226	328	256	294	322	301	377	1,506	1,657	3,164
1973	445	278	164	165	216	223	312	251	115	107	46	165	1,042	1,447	2,489
1974	207	198	89	56	112	224	351	328	345	316	309	281	1,312	1,506	2,817
1975	343	280	165	98	142	229	333	272	236	193	161	265	1,241	1,476	2,717
1976	206	168	170	166	312	383	366	331	357	325	314	302	1,315	2,085	3,400
1977	229	309	173	165	116	114	334	270	241	190	36	139	904	1,413	2,317
1978	301	188	62	59	118	229	329	174	212	190	117	139	936	1,184	2,120

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	5428	1984	2349	1679	1409	2841	1998	3000	5880	4658
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	5204	3275	3248	3999	4000	3000	3000	2274	2771
1931	5851	5495	2962	3648	1888	1357	3114	4490	5173	4769	4644	5103	2607	4814	3786	1352	5915	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	4000	4000	3246	3000	5000	4999
1933	3962	2059	3449	3134	2994	2807	6362	4200	6557	6600	6599	6601	2744	5870	6507	6243	5001	4938
1934	4959	4471	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	3000	3000	5000	5373
1936	5850	5932	3694	3526	2977	2676	2504	3023	5325	4571	4500	4465	4000	4000	5419	3114	5000	5001
1937	3436	1779	4048	3222	2833	1667	2473	3964	5489	1929	3113	3955	4729	2483	1925	2194	6600	6600
1938	5850	5850	5850	5984	1896	2125	3887	4200	6000	5500	4500	1895	4000	4001	6456	6599	5000	6600
1939	4187	2045	3894	4384	2366	1395	2305	2808	6000	5499	4500	4500	4000	4000	3000	3000	6600	5001
1940	3890	2662	3568	3894	2871	1757	3195	4200	6000	6085	4501	4500	4000	4001	3000	3000	4801	1497
1941	2387	2426	3581	2912	1403	2769	2678	2347	6000	5499	4500	4499	4480	4511	1000	1110	3336	1197
1942	1584	1526	1273	3073	1325	1120	4500	4344	6000	5501	4500	3997	2920	2751	1000	1661	1786	1399
1943	2682	2451	3045	2180	2995	1731	1739	4200	6000	5500	4500	4500	4000	6596	3000	4448	5001	6106
1944	6580	8021	4560	2910	2995	1627	2226	4199	5840	4988	2858	1363	2408	2771	1121	1250	4301	1611
1945	5084	4784	3133	2929	2045	1297	2369	4456	5818	4012	3489	3358	2214	2735	2915	2051	1513	4019
1946	2201	2138	5850	5850	3133	2495	3531	1764	6000	5500	4500	4500	4000	4758	6600	6600	6600	6397
1947	4999	3943	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	6600
1948	5000	3603	2949	2818	3300	3300	4500	4200	6000	5500	4500	4500	4000	4000	4473	6599	6600	6600
1949	5850	4605	3971	3899	3300	3000	4500	4200	6000	5500	4500	4500	4000	4001	6599	4598	6333	5000
1950	5000	3727	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	4709	6654	6600	6601	6600
1951	7952	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6600	6600	6600
1952	5240	4344	3669	2712	3301	3301	4045	4156	4870	5474	1000	1382	4001	4000	3000	3000	3980	4154
1953	3996	2332	3726	3293	2901	1452	2174	2535	6000	5500	4501	4500	4000	6600	4935	4612	5994	5000
1954	5000	3006	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	6600	6480	6600	6601	6600	6601
1955	5850	9504	6853	5779	3701	3284	7587	4200	6000	5500	4500	4500	4000	6028	3000	2999	6229	5000
1956	5975	5669	5086	3263	3300	4714	7713	4201	6600	5500	6196	5154	2994	6600	5726	6600	6599	6600
1957	9311	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1149	2089	4200	6000	5500	4500	2372	2177	2082	3000	5148	5000	5000
1959	5851	5984	3897	2401	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6600	6600	6601	6600
1960	5851	6407	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	3000	6600	6686
1961	5867	4268	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	5947	3000	6600	6600	6600
1962	7050	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	4501	4000	4000	2396	2999	1772	5000
1963	1930	3438	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3999	3000	6600	5000	4119
1964	2712	2367	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	5372	6600	6600	6608
1965	5850	5277	5029	3803	3300	3370	4500	4200	6000	5500	4499	4501	4000	4000	3000	3000	5457	5298
1966	5000	4238	4552	3268	3300	3300	4475	4200	6000	5500	1000	4500	4000	4000	3000	1282	4678	4532
1967	3861	2909	3977	2975	2983	2907	3364	5017	6000	6600	6599	6600	6601	4262	5489	6600	6031	6599
1968	5850	5493	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	6600	6600	6600	6600
1969	5444	4384	3825	2964	3300	3000	4500	4200	6000	5500	4500	4500	4000	3999	3001	3865	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	4150	5500	4331	1870	2991	4000	3000	2462	4674	2792
1971	1836	1622	5259	3542	2303	1213	1848	4200	6001	6600	4500	6601	6600	6511	6600	6600	6600	6600
1972	4540	7845	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	5694	5115	3191	1401	1868	2671	1055	1818	4005	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6601	6600	6600	6600	6600
1975	5850	10741	7371	4371	3300	1813	2792	4200	6000	5500	4500	4500	4000	4000	3787	3598	6599	5000
1976	5850	3828	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	6600	6601	6600	6600	6132
1977	5000	5148	7950	5196	3506	3000	2250	2163	6000	5500	4500	4500	4000	3921	1000	1000	4263	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	3707	4145	4501	4000	4001	3000	2309	5000	2060

Analysis of Low Fisheries Flow Scenarios
Date of Refill July 31 -- Target Refill Elevation 1602.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1531.4	1520.9	1514.4	1514.0	1513.8	1514.0	1531.9	1558.7	1572.8	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1520.9	1514.4	1514.0	1524.2	1539.6	1550.2	1563.4	1582.0	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.2	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1557.0	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1481.0	1494.9	1529.0	1549.2	1570.3	1588.4
1933	1595.2	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1476.5	1475.4	1475.0	1475.0	1488.7	1529.8	1564.0
1934	1587.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1546.5	1568.9	1588.8	1597.5
1936	1600.4	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1547.5	1520.9	1509.0	1492.1	1482.4	1518.3	1540.3	1572.1	1589.3	1594.5
1937	1597.6	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1531.2	1520.9	1514.4	1504.6	1492.7	1497.2	1520.2	1547.8	1574.5	1592.0
1938	1598.1	1595.7	1588.3	1577.7	1577.6	1579.4	1577.9	1572.5	1550.2	1521.2	1512.1	1514.0	1507.6	1521.3	1523.7	1552.2	1573.7	1587.7
1939	1594.1	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1531.2	1550.6	1575.7	1578.7	1586.7
1940	1594.9	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1538.8	1534.9	1534.3	1538.0	1551.7	1570.9	1576.6	1585.9
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1540.3	1531.0	1521.1	1518.8	1518.7	1534.2	1548.1	1555.3	1563.6
1942	1569.5	1574.3	1577.6	1574.7	1580.6	1596.9	1591.3	1592.1	1565.5	1539.2	1526.7	1514.0	1514.5	1520.4	1532.0	1557.9	1578.2	1590.5
1943	1598.7	1602.5	1602.5	1602.5	1594.1	1590.0	1589.0	1579.1	1553.5	1528.5	1517.8	1509.0	1517.7	1525.0	1531.7	1552.0	1572.0	1587.6
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1547.5	1520.9	1514.4	1514.0	1513.9	1514.8	1532.9	1553.2	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1568.5	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1493.4	1492.5	1519.0	1550.2	1574.7	1587.0
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.3	1550.3	1523.1	1514.0	1503.1	1496.4	1504.9	1528.7	1562.5	1577.6	1587.3
1947	1595.7	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1598.3
1948	1600.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1522.7	1509.3	1492.5	1478.7	1485.5	1488.0	1538.0	1585.3	1600.5
1949	1600.7	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1502.8	1488.7	1477.0	1478.3	1499.2	1533.4	1567.1	1586.0	1592.6
1950	1598.0	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1475.0	1475.0	1501.1	1541.9	1587.1
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1563.9	1576.6	1590.0
1952	1599.0	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1535.9	1507.5	1508.2	1508.0	1502.4	1515.6	1533.4	1566.4	1582.0	1589.6
1953	1596.7	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.0	1550.9	1541.1	1530.9	1521.6	1516.5	1532.1	1554.0	1569.3	1578.8
1954	1594.7	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1488.3	1475.0	1484.9	1525.1	1543.1	1569.0
1955	1598.9	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1537.6	1524.7	1509.9	1505.9	1484.9	1489.7	1518.1	1554.7	1581.1
1956	1594.2	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1475.7	1475.4	1489.5	1503.1	1556.0	1583.2	1597.7
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.3	1584.8	1570.0	1545.6	1525.6	1516.2	1514.0	1514.5	1520.4	1539.4	1578.4	1590.2	1596.6
1959	1593.5	1588.3	1585.3	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.6	1538.4	1563.5	1586.0
1960	1597.3	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1561.9	1582.8	1591.1
1961	1598.0	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1504.0	1514.9	1546.2	1583.7	1601.8
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1527.9	1524.0	1529.6	1534.3	1551.2	1571.4	1587.1
1963	1597.4	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1552.1	1552.7	1567.9	1579.7	1589.1
1964	1597.1	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1487.0	1506.8	1553.8	1572.5
1965	1594.8	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1550.8	1537.0	1531.8	1522.8	1515.5	1525.8	1538.2	1563.2	1583.6	1593.0
1966	1600.3	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1540.9	1508.9	1510.5	1500.8	1511.3	1509.7	1536.9	1559.9	1573.1	1585.0
1967	1595.1	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1512.5	1488.6	1475.0	1475.0	1506.2	1545.5	1590.1
1968	1601.2	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1531.6	1547.3	1571.6	1585.1
1969	1598.6	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1507.0	1494.5	1495.5	1503.7	1535.0	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1547.5	1524.2	1514.4	1514.0	1513.8	1504.6	1509.9	1540.7	1567.8	1587.2
1971	1595.9	1602.0	1595.3	1591.6	1589.4	1589.4	1587.7	1572.1	1549.8	1539.0	1530.6	1510.3	1489.5	1475.0	1516.8	1541.1	1561.2	1577.6
1972	1587.8	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1547.5	1520.9	1514.4	1514.0	1513.8	1514.0	1530.7	1560.4	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1476.4	1483.9	1493.8	1535.1	1582.6
1975	1601.8	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1505.2	1490.9	1482.9	1502.4	1526.8	1557.5	1574.5
1976	1597.2	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1487.9	1514.4	1532.6	1541.3	1565.0
1977	1586.6	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1564.1	1542.8	1533.5	1520.8	1515.5	1520.4	1536.7	1548.2	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1511.1	1499.7	1501.3	1500.6	1499.5	1512.1	1533.4	1559.4	1579.1

Analysis of Low Fisheries Flow Scenarios
Plant ROSS -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Analysis of Low Fisheries Flow Scenarios
Plant DIABLO -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1934	0	0	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	213
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	10	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	37
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	37	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	52
1956	0	0	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	0	52
1957	31	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	81
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	71
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	23
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	95
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	55	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
1976	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
1977	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill July 31 -- Target Refill Elevation 1602.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	217
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	9	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	29	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	83
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	56	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	95
1956	0	0	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	0	40
1957	50	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	98
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	7	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	65
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	30	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	133
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	76	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
1976	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
1977	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 9 - REFILL TO 1601.5 ON JUNE 30
LICENSE REQUIREMENT FISHERIES FLOWS

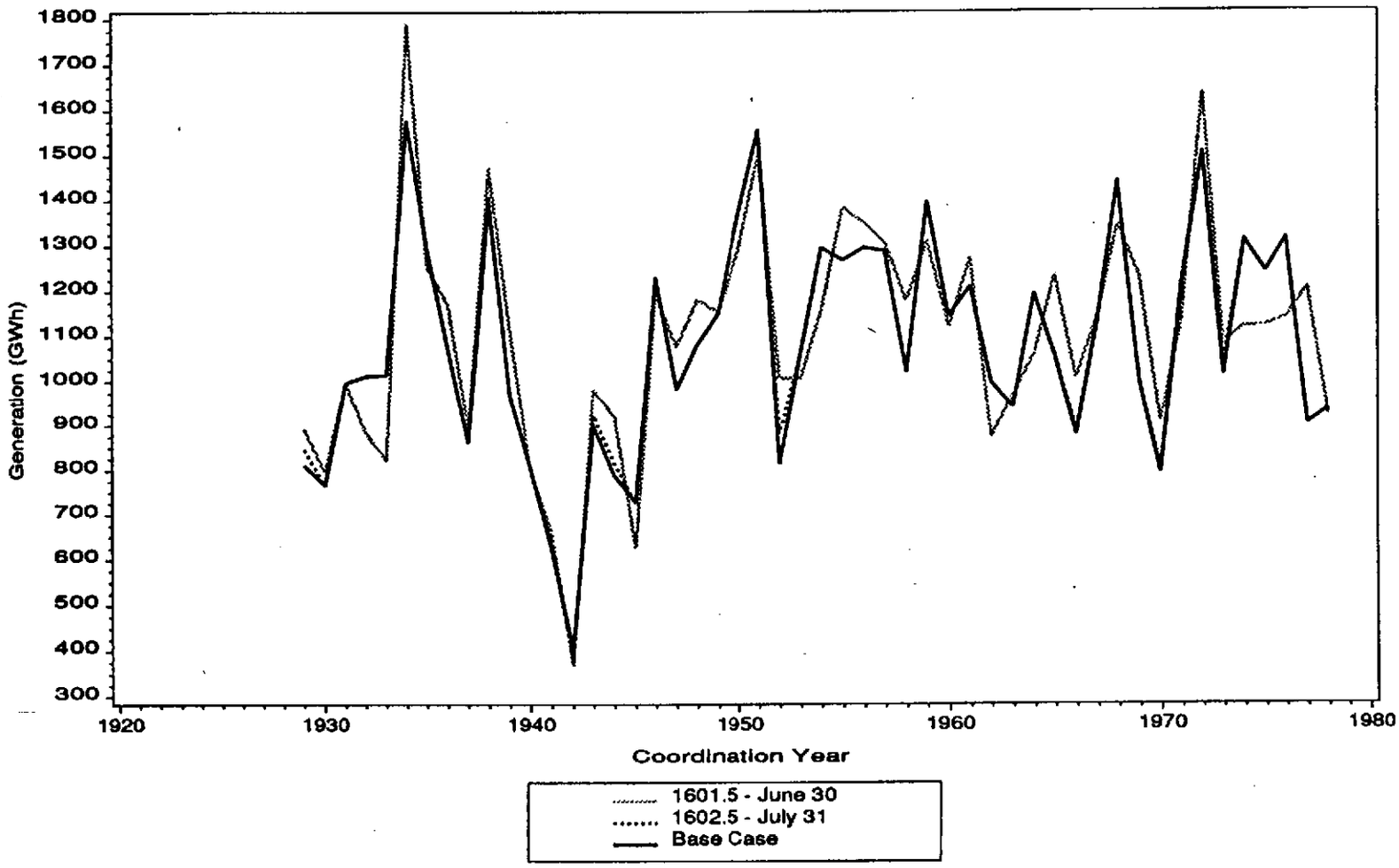
Energy Production: Base Case (Interim) vs. Early Refill (License)
July 31 at 1602.5 vs. June 30 at 1601.5 License Minimum Flow Scenario

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	Base Case	1601.5 - June 30	Base Case	1601.5 - June 30	Base Case	1601.5 - June 30
1929	812	893	1,311	1,239	2,123	2,131
1930	766	795	1,067	1,050	1,834	1,845
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	885	1,297	1,297	2,310	2,182
1933	1,015	823	1,898	1,898	2,914	2,722
1934	1,577	1,792	2,095	2,095	3,672	3,888
1935	1,296	1,254	1,589	1,589	2,886	2,843
1936	1,073	1,171	1,341	1,216	2,413	2,387
1937	862	897	1,160	1,160	2,021	2,058
1938	1,396	1,473	1,377	1,223	2,773	2,696
1939	969	1,112	1,288	1,288	2,257	2,400
1940	804	800	1,488	1,488	2,292	2,287
1941	622	655	1,283	1,272	1,905	1,927
1942	406	368	1,398	1,317	1,804	1,685
1943	899	982	1,386	1,309	2,285	2,291
1944	788	922	1,275	1,209	2,064	2,131
1945	728	627	1,157	1,157	1,885	1,784
1946	1,231	1,192	1,388	1,386	2,619	2,577
1947	984	1,077	1,520	1,520	2,504	2,598
1948	1,082	1,181	1,637	1,543	2,719	2,724
1949	1,151	1,153	1,627	1,560	2,779	2,712
1950	1,371	1,289	1,855	1,855	3,225	3,144
1951	1,557	1,501	2,072	2,072	3,628	3,572
1952	816	1,008	1,432	1,242	2,248	2,249
1953	1,063	1,007	1,300	1,254	2,363	2,261
1954	1,295	1,158	1,866	1,866	3,161	3,024
1955	1,268	1,385	1,812	1,654	3,080	3,039
1956	1,295	1,348	1,929	1,929	3,224	3,277
1957	1,287	1,307	1,716	1,716	3,004	3,024
1958	1,021	1,179	1,239	1,041	2,260	2,220
1959	1,398	1,310	1,746	1,746	3,144	3,056
1960	1,144	1,120	1,918	1,918	3,062	3,038
1961	1,210	1,273	1,709	1,709	2,919	2,981
1962	997	874	1,440	1,423	2,437	2,297
1963	942	969	1,651	1,651	2,593	2,620
1964	1,194	1,060	1,796	1,796	2,990	2,856
1965	1,056	1,235	1,647	1,545	2,703	2,780
1966	880	1,007	1,555	1,366	2,436	2,373
1967	1,133	1,143	1,752	1,752	2,884	2,895
1968	1,442	1,347	1,945	1,945	3,386	3,291
1969	997	1,233	1,622	1,515	2,619	2,748
1970	795	910	1,446	1,202	2,241	2,113
1971	1,215	1,137	1,436	1,429	2,650	2,566
1972	1,506	1,641	1,657	1,657	3,164	3,298
1973	1,014	1,085	1,472	1,408	2,485	2,493
1974	1,312	1,120	1,506	1,506	2,817	2,625
1975	1,241	1,122	1,476	1,460	2,717	2,582
1976	1,315	1,141	2,085	2,085	3,400	3,226
1977	903	1,207	1,413	1,304	2,316	2,512
1978	936	922	1,184	1,007	2,120	1,928

Synergic Resources Corporation -- 22JAN90

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1601.5
Low Fisheries Flow Scenarios vs. Base Case

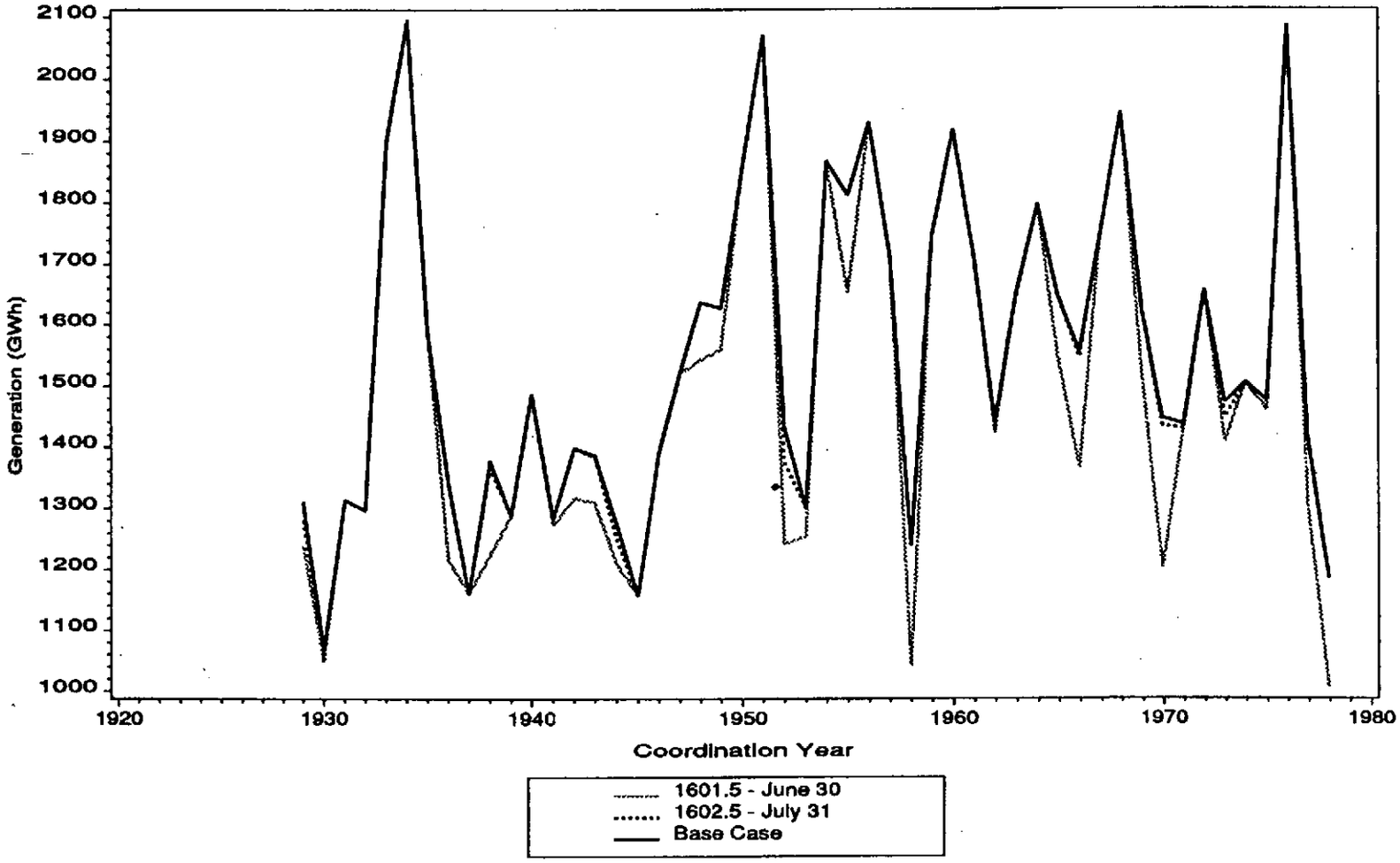
Energy Season=Summer



Synergic Resources Corporation -- 14DEC89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1601.5
Low Fisheries Flow Scenarios vs. Base Case

Energy Season=Winter

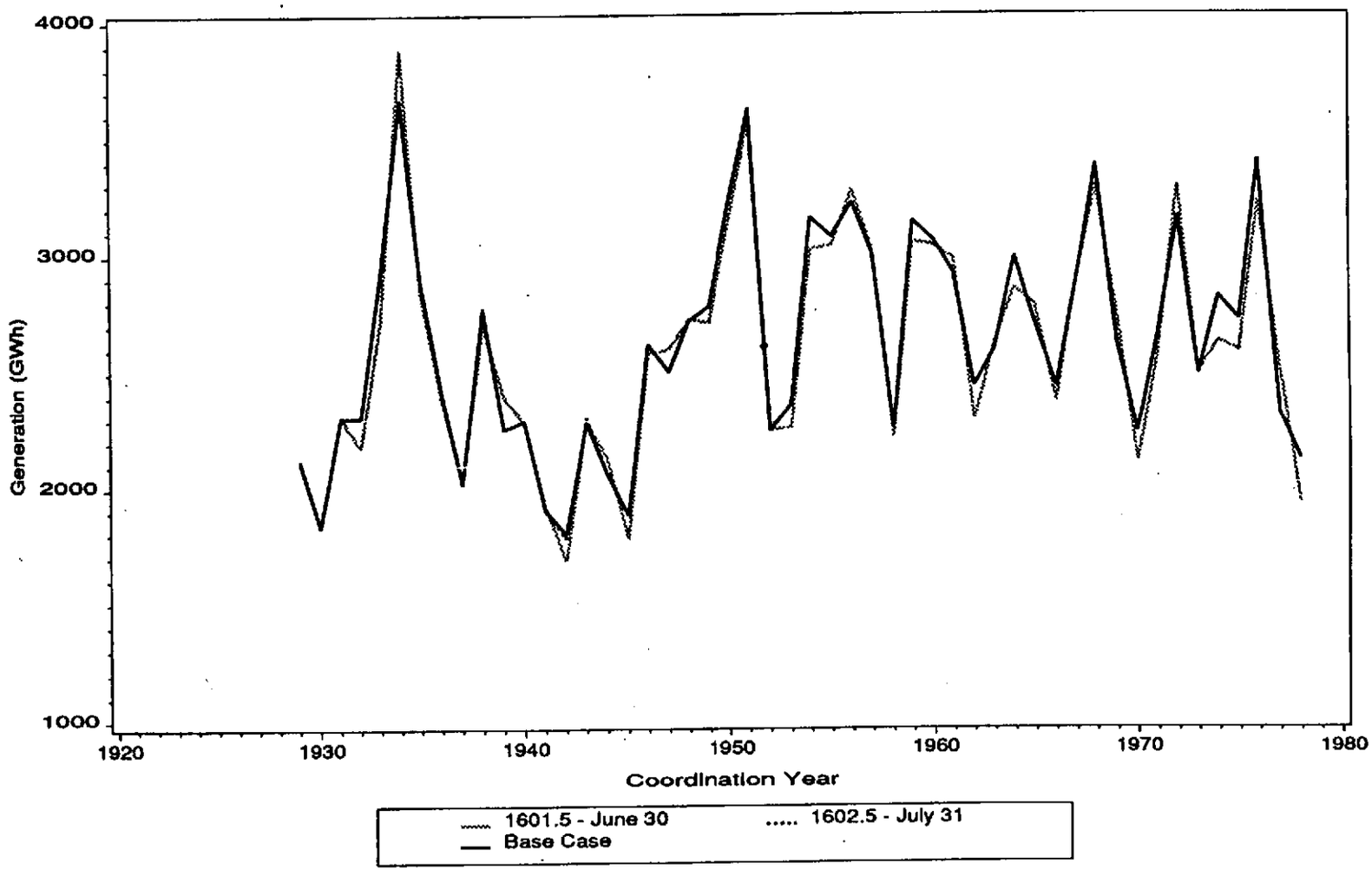


Synergic Resources Corporation -- 14DEC89

Annual Energy Production: Base Case vs. Early Refill

July 31 at 1602.5 vs. June 30 at 1601.5

Low Fisheries Flow Scenarios vs. Base Case



Synergic Resources Corporation -- 14DEC89

Analysis of Low Fisheries Flow Scenarios
Date of Refill June 30 -- Target Refill Elevation 1601.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	190	48	219	144	56	306	893	1,239	2,131
1930	168	151	67	65	129	198	207	123	260	152	109	215	795	1,050	1,845
1931	299	167	86	65	169	252	270	226	246	172	102	258	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	116	152	139	885	1,297	2,182
1933	274	163	157	148	322	229	369	331	342	196	81	109	823	1,898	2,722
1934	432	270	163	249	358	295	360	326	345	320	397	373	1,792	2,095	3,888
1935	305	314	92	78	238	227	345	324	287	300	123	212	1,254	1,589	2,843
1936	336	184	146	145	137	166	246	89	288	209	288	154	1,171	1,216	2,387
1937	190	186	144	87	136	215	232	112	234	169	41	313	897	1,160	2,058
1938	302	321	140	101	193	222	328	94	144	331	302	216	1,473	1,223	2,696
1939	287	224	114	68	121	148	326	275	236	174	133	295	1,112	1,288	2,400
1940	155	193	149	83	163	217	338	302	235	104	135	213	800	1,488	2,287
1941	130	165	59	124	141	117	334	229	269	231	34	95	655	1,272	1,927
1942	56	101	50	37	237	232	342	55	363	37	47	127	368	1,317	1,685
1943	229	126	157	93	84	225	326	268	156	252	247	128	982	1,309	2,291
1944	401	190	154	81	118	230	138	248	239	165	38	128	922	1,209	2,131
1945	254	152	87	57	117	238	304	181	173	114	52	55	627	1,157	1,784
1946	196	321	157	122	183	92	332	269	232	204	308	163	1,192	1,386	2,577
1947	338	166	173	162	138	228	329	261	229	185	142	247	1,077	1,520	2,598
1948	247	146	171	158	242	228	334	192	218	161	307	320	1,181	1,543	2,724
1949	289	196	166	158	246	236	334	191	228	242	254	172	1,153	1,560	2,712
1950	297	306	134	109	324	242	373	327	345	268	203	215	1,289	1,855	3,144
1951	417	232	166	168	348	372	338	315	365	330	325	197	1,501	2,072	3,572
1952	326	158	167	169	217	232	160	212	84	191	128	205	1,008	1,242	2,249
1953	263	173	148	73	118	140	308	266	201	266	191	114	1,007	1,254	2,261
1954	353	191	162	168	262	227	372	322	353	314	221	79	1,158	1,866	3,024
1955	472	319	182	175	367	232	340	109	249	338	43	213	1,385	1,654	3,039
1956	392	208	168	216	375	233	372	273	293	217	199	334	1,348	1,929	3,277
1957	385	201	159	228	241	233	343	273	240	208	237	277	1,307	1,716	3,024
1958	308	215	82	52	107	232	303	118	146	101	265	290	1,179	1,041	2,220
1959	300	220	93	107	231	317	367	334	297	317	227	247	1,310	1,746	3,056
1960	377	180	209	246	356	230	369	270	238	193	111	260	1,120	1,918	3,038
1961	328	180	170	153	233	227	316	257	353	276	174	315	1,273	1,709	2,981
1962	318	232	141	80	156	230	322	266	229	129	76	119	874	1,423	2,297
1963	270	167	168	159	225	254	335	262	247	191	243	98	969	1,651	2,620
1964	247	167	163	183	294	226	334	333	265	329	101	215	1,060	1,796	2,856
1965	414	220	166	176	242	230	291	265	175	202	159	240	1,235	1,545	2,780
1966	301	190	174	172	233	229	217	245	95	195	88	234	1,007	1,366	2,373
1967	317	172	149	144	178	260	335	331	355	266	88	301	1,143	1,752	2,895
1968	350	181	161	210	308	228	356	322	359	347	300	169	1,347	1,945	3,291
1969	345	168	160	160	233	233	330	273	126	170	272	277	1,233	1,515	2,748
1970	218	151	146	179	226	233	100	270	47	342	45	155	910	1,202	2,113
1971	208	237	111	60	91	235	322	312	297	315	175	201	1,137	1,429	2,566
1972	404	237	170	178	206	226	328	256	294	322	301	377	1,641	1,657	3,298
1973	445	278	164	165	216	223	107	229	302	151	46	165	1,085	1,408	2,493
1974	207	198	89	56	112	224	351	328	345	316	165	233	1,120	1,506	2,625
1975	438	280	165	98	142	229	333	272	220	119	126	159	1,122	1,460	2,582
1976	356	168	170	166	312	383	366	331	357	325	236	57	1,141	2,085	3,226
1977	418	309	173	165	116	114	310	272	155	252	36	193	1,207	1,304	2,512
1978	301	188	62	59	118	229	329	42	167	199	94	140	922	1,007	1,928

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	3424	1000	3743	4421	3069	2841	1144	2030	6601	5826
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	4000	2623	2036	3588	5044
1931	5851	5495	2962	3648	1888	1357	3114	4490	5173	4769	4644	5103	2607	4814	3786	1352	5915	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	1637	4000	5609	1325	2840	4036
1933	6092	4666	3449	3134	2994	2807	6362	4200	6557	6600	6599	6601	2744	5870	1213	2632	1926	3651
1934	12815	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	2799	2752	4974	4338
1936	6563	6695	3694	3526	2977	2676	2504	3023	4474	1798	6646	4288	4000	5235	6600	5515	4189	3173
1937	4584	3176	4048	3222	2833	1667	2473	3964	4162	2286	4652	4458	4729	2483	1222	1350	6600	6600
1938	5850	5850	5850	5850	2768	2125	3887	4200	6000	1951	4409	1275	6600	6601	6599	5576	4026	5514
1939	6182	5037	3894	4384	2366	1395	2305	2808	6000	5499	4500	4500	4000	3435	3000	3057	6600	5233
1940	1851	4828	3568	3894	2871	1757	3195	4200	6000	6085	4501	4500	3305	1300	3000	3113	6600	2270
1941	3092	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1000	1110	3336	1197
1942	1584	1526	1273	3073	1325	1120	4500	4344	6000	1194	6600	6600	1000	1000	1000	1661	3020	2850
1943	5356	3836	3045	2180	2995	1731	1739	4200	6000	5500	1823	4303	4000	6600	5006	4958	1761	4464
1944	11796	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1121	1250	4301	1611
1945	5084	4784	3133	2929	2045	1297	2369	4456	5818	4012	3489	3358	2214	2735	1581	1766	1513	1938
1946	4839	3151	5850	5850	3133	2495	3531	1764	6000	5500	4500	4500	4000	4758	6600	6600	4104	3565
1947	7742	6366	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	5360
1948	5465	4330	2949	2818	3300	3300	4500	4200	6000	3921	4500	3732	4000	2840	6445	6599	6600	8754
1949	5943	5268	3971	3899	3300	3000	4500	4200	6000	3972	4500	4500	6616	4001	6599	4819	5663	2320
1950	6624	5346	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	4709	6603	2724	2645	8934
1951	13759	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6600	4128	4762
1952	8185	5624	3669	2712	3301	3301	4045	4156	2911	4368	1000	2214	4001	4000	3000	3000	4999	3891
1953	6245	4415	3726	3293	2901	1452	2174	2535	5923	5500	4501	3009	4000	6600	6240	2186	3897	1622
1954	10521	5804	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	6600	6480	5674	4310	1752	3004
1955	16281	10801	6853	5779	3701	3284	7587	4200	6000	2241	4500	4500	6713	6599	1000	1589	5201	4705
1956	10446	8626	5086	3263	3300	4714	7713	4201	6600	5500	6196	5154	2994	6600	2345	6600	6599	8146
1957	11146	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1149	2089	4200	5581	2588	1203	4228	1662	2583	4636	6600	5604	6566
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6600	3146	6028	5050
1960	9655	8285	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	1141	6600	4757
1961	8041	5897	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	5947	1000	6600	6600	8335
1962	7315	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	3918	1982	3626	1000	2632	1705	4449
1963	5389	5277	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3423	3000	6600	2458	2580
1964	5296	4311	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	1000	3737	6600	3389
1965	13569	8020	5029	3803	3300	3370	4500	4200	5278	5500	4499	2248	4308	4000	3000	3819	6568	3696
1966	7322	5065	4552	3268	3300	3300	4475	4200	3974	4952	1000	2778	4000	4000	3000	1483	5650	4208
1967	7227	5551	3977	2975	2983	2907	3364	5017	6000	6600	6599	6600	6232	4631	1000	3422	5372	10459
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	6600	5478	4075	4166
1969	10085	5804	3825	2964	3300	3000	4500	4200	6000	5500	2883	2072	3224	3999	6601	5162	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	1925	5500	1000	1000	6600	6600	1000	1653	3994	3618
1971	5000	3517	5439	3542	2303	1213	1848	4200	6001	6600	4500	6601	6600	6511	6600	2041	6131	2993
1972	7941	13037	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	2068	4569	6600	4627	3528	2671	1055	1818	4005	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6601	6284	1467	3881	7635
1975	13032	11016	7371	4371	3300	1813	2792	4200	6000	5500	4500	3921	4000	1000	4514	1588	5894	1832
1976	12705	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	6600	6601	3785	1449	2233
1977	11085	10743	7950	5196	3506	3000	2250	2163	5578	5509	3222	2623	5034	5067	1000	1000	6217	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	1000	2093	4501	4000	4001	3137	1266	4943	2060

Analysis of Low Fisheries Flow Scenarios
Date of Refill June 30 -- Target Refill Elevation 1601.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1545.8	1543.3	1532.8	1520.8	1513.8	1514.0	1535.0	1564.4	1576.3	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1546.8	1558.6	1574.1	1588.1	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.2	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1557.0	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1494.9	1507.2	1529.0	1555.1	1581.6	1601.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1476.5	1475.4	1475.0	1505.0	1530.7	1569.9	1601.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1547.2	1570.3	1590.1	1601.5
1936	1602.5	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1553.3	1546.4	1528.6	1516.1	1509.3	1533.2	1548.7	1572.1	1591.5	1601.5
1937	1601.5	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.4	1516.6	1504.6	1492.7	1497.2	1523.1	1553.1	1579.1	1596.3
1938	1602.2	1600.0	1592.6	1582.4	1577.6	1579.4	1577.9	1572.5	1550.2	1545.6	1538.5	1542.3	1527.3	1530.2	1531.8	1562.3	1585.1	1601.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1533.2	1552.5	1577.2	1580.1	1587.4
1940	1601.0	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1538.8	1534.9	1536.8	1549.4	1562.6	1580.4	1580.7	1587.8
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1534.2	1548.1	1555.3	1563.6
1942	1569.5	1574.3	1577.6	1574.7	1580.6	1596.9	1591.3	1592.1	1565.5	1565.2	1547.8	1527.0	1534.7	1545.7	1555.2	1578.4	1593.2	1601.5
1943	1602.5	1602.5	1602.5	1602.5	1594.1	1590.0	1589.0	1579.1	1553.5	1528.5	1528.8	1520.8	1529.5	1536.0	1534.9	1553.1	1582.1	1601.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1532.9	1553.2	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1568.5	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1493.4	1492.5	1524.5	1555.6	1579.4	1597.0
1946	1601.5	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.3	1550.3	1523.1	1514.0	1503.1	1496.4	1504.9	1528.7	1562.5	1584.3	1601.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1601.5
1948	1602.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1534.2	1521.4	1511.4	1500.7	1511.3	1504.4	1547.9	1593.3	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1515.3	1504.5	1493.7	1479.7	1500.5	1534.2	1567.1	1587.8	1601.5
1950	1602.5	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1475.0	1475.3	1519.3	1567.9	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1563.9	1583.4	1601.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1549.6	1532.3	1532.8	1529.4	1524.6	1536.2	1551.2	1581.5	1593.3	1601.5
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.5	1551.4	1541.6	1537.2	1528.8	1523.6	1533.7	1563.6	1583.9	1601.5
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1488.3	1475.0	1490.3	1537.8	1569.2	1601.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1557.9	1546.7	1534.2	1520.0	1501.1	1513.7	1542.1	1577.0	1601.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1475.7	1475.4	1489.5	1517.7	1566.4	1592.3	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.3	1584.8	1570.0	1548.5	1548.1	1551.4	1543.1	1545.2	1548.3	1559.2	1590.3	1600.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.6	1550.7	1576.1	1601.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1567.8	1588.1	1601.5
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1504.0	1523.1	1552.8	1589.0	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1530.4	1534.2	1540.5	1549.3	1566.3	1585.1	1601.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1554.0	1554.6	1569.6	1588.1	1601.5
1964	1602.5	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1510.1	1536.5	1576.5	1601.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1555.7	1542.2	1537.2	1537.7	1530.2	1539.2	1550.2	1571.3	1587.9	1601.5
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1554.7	1530.2	1531.6	1530.7	1538.9	1537.6	1560.3	1580.0	1589.3	1601.5
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1512.5	1490.8	1475.0	1501.1	1537.7	1572.3	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1531.6	1551.2	1582.2	1601.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1513.8	1514.6	1518.5	1524.8	1540.0	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1562.4	1541.3	1544.4	1547.2	1534.7	1516.0	1528.9	1558.9	1585.4	1601.5
1971	1601.7	1602.5	1595.3	1591.6	1589.4	1589.4	1587.7	1572.1	1549.8	1539.0	1530.6	1510.3	1489.5	1475.0	1516.8	1557.2	1577.0	1601.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1571.0	1551.6	1534.7	1520.8	1513.8	1514.0	1530.7	1560.4	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1476.4	1485.8	1520.6	1563.2	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1508.2	1494.6	1503.4	1515.1	1544.9	1574.8	1598.8
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1487.9	1514.4	1543.1	1567.4	1598.6
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1566.7	1545.6	1541.1	1536.8	1528.2	1528.4	1543.5	1554.7	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1531.6	1530.1	1531.3	1530.7	1530.0	1539.4	1560.6	1583.1	1600.9

Analysis of Low Fisheries Flow Scenarios
Plant ROSS -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Analysis of Low Fisheries Flow Scenarios
Plant DIABLO -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	344
1934	86	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
1944	69	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
1947	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	18
1952	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
1954	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	205
1955	133	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15	139
1956	49	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	0	108
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127
1960	37	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	15	30
1961	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	108
1965	94	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1966	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	45
1967	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	44
1969	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	192
1972	13	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
1976	78	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	129
1977	58	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1934	102	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	380
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	87	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	26	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	43
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	170
1952	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
1953	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
1954	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
1955	154	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	270
1956	67	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	21	170
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	126
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	55	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	150
1961	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	55
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	114	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
1966	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1967	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	74
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	69
1969	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	29	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	245
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	207
1976	101	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	133
1977	76	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 10 - REFILL TO 1592.0 ON JUNE 30
LICENSE REQUIREMENT FISHERIES FLOWS

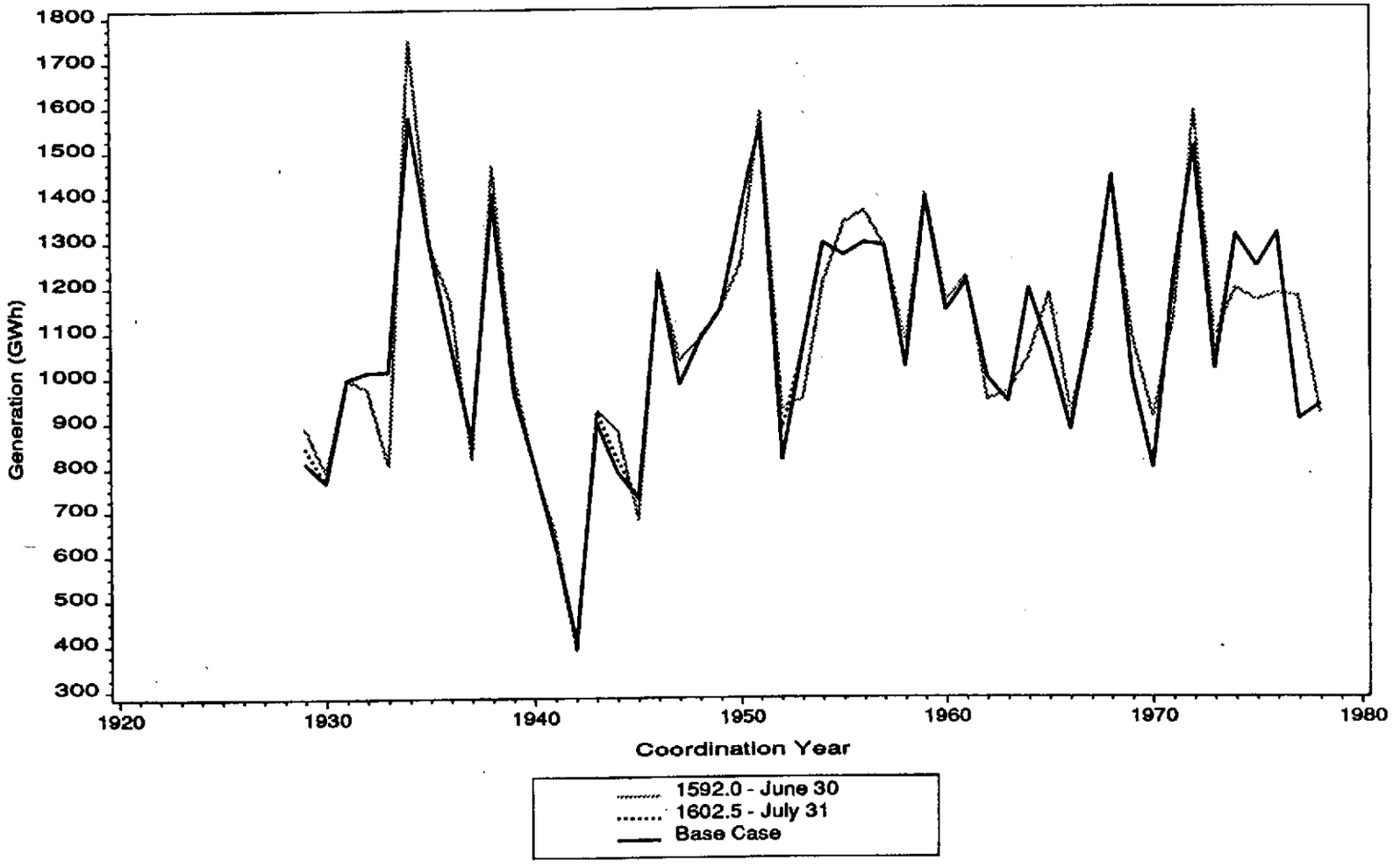
Energy Production: Base Case (Interim) vs. Early Refill (License)
July 31 at 1602.5 vs. June 30 at 1592.0 License Minimum Flow Scenario

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	Base Case	1592.0 - June 30	Base Case	1592.0 - June 30	Base Case	1592.0 - June 30
1929	812	892	1,311	1,238	2,123	2,130
1930	766	790	1,067	1,050	1,834	1,839
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	976	1,297	1,297	2,310	2,273
1933	1,015	806	1,898	1,898	2,914	2,705
1934	1,577	1,753	2,095	2,095	3,672	3,848
1935	1,296	1,296	1,589	1,589	2,886	2,886
1936	1,073	1,168	1,341	1,258	2,413	2,426
1937	862	821	1,160	1,160	2,021	1,981
1938	1,396	1,468	1,377	1,317	2,773	2,785
1939	969	1,008	1,288	1,288	2,257	2,296
1940	804	800	1,488	1,488	2,292	2,288
1941	622	647	1,283	1,272	1,905	1,919
1942	406	393	1,398	1,356	1,804	1,748
1943	899	926	1,386	1,383	2,285	2,309
1944	788	883	1,275	1,208	2,064	2,091
1945	728	680	1,157	1,157	1,885	1,836
1946	1,231	1,237	1,388	1,386	2,619	2,623
1947	984	1,034	1,520	1,520	2,504	2,555
1948	1,082	1,089	1,637	1,632	2,719	2,721
1949	1,151	1,151	1,627	1,627	2,779	2,779
1950	1,371	1,253	1,855	1,855	3,225	3,108
1951	1,557	1,586	2,072	2,072	3,628	3,658
1952	816	928	1,432	1,333	2,248	2,261
1953	1,063	951	1,300	1,300	2,363	2,252
1954	1,295	1,207	1,866	1,866	3,161	3,073
1955	1,268	1,339	1,812	1,748	3,080	3,086
1956	1,295	1,365	1,929	1,929	3,224	3,294
1957	1,287	1,287	1,716	1,716	3,004	3,004
1958	1,021	1,075	1,239	1,135	2,260	2,211
1959	1,398	1,403	1,746	1,746	3,144	3,149
1960	1,144	1,169	1,918	1,918	3,062	3,087
1961	1,210	1,220	1,709	1,709	2,919	2,929
1962	997	948	1,440	1,440	2,437	2,387
1963	942	964	1,651	1,651	2,593	2,615
1964	1,194	1,044	1,796	1,796	2,990	2,840
1965	1,056	1,182	1,647	1,638	2,703	2,820
1966	880	923	1,555	1,458	2,436	2,381
1967	1,133	1,097	1,752	1,752	2,884	2,848
1968	1,442	1,443	1,945	1,945	3,386	3,388
1969	997	1,087	1,622	1,606	2,619	2,693
1970	795	909	1,446	1,296	2,241	2,205
1971	1,215	1,128	1,436	1,429	2,650	2,557
1972	1,506	1,589	1,657	1,657	3,164	3,246
1973	1,014	1,085	1,472	1,406	2,485	2,492
1974	1,312	1,193	1,506	1,506	2,817	2,699
1975	1,241	1,166	1,476	1,476	2,717	2,642
1976	1,315	1,181	2,085	2,085	3,400	3,267
1977	903	1,174	1,413	1,304	2,316	2,478
1978	936	916	1,184	1,097	2,120	2,013

Synergic Resources Corporation -- 22JAN90

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1592.0
Low Fisheries Flow Scenarios vs. Base Case

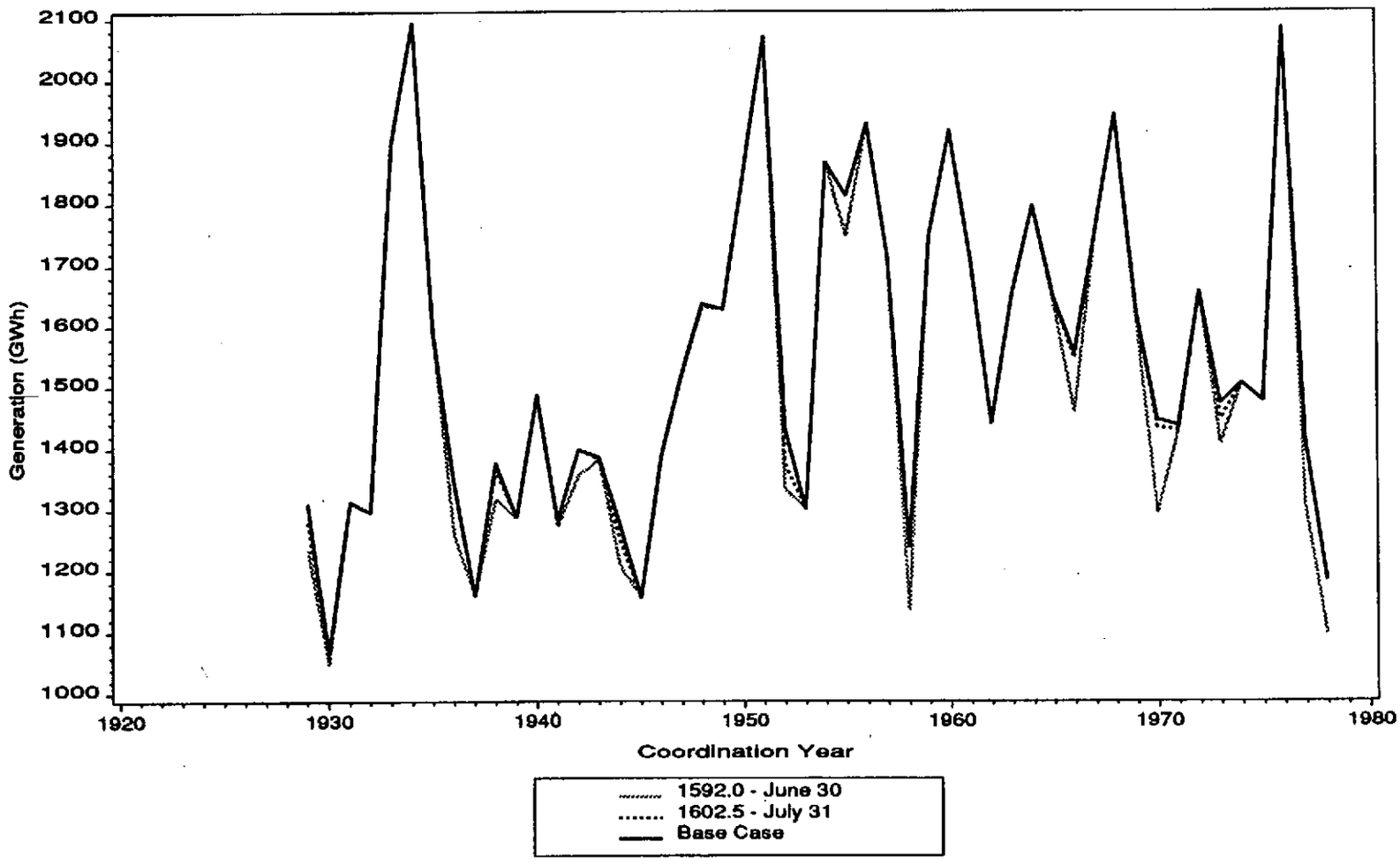
Energy Season=Summer



Synergic Resources Corporation -- 14DEC89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. June 30 at 1592.0
Low Fisheries Flow Scenarios vs. Base Case

Energy Season=Winter

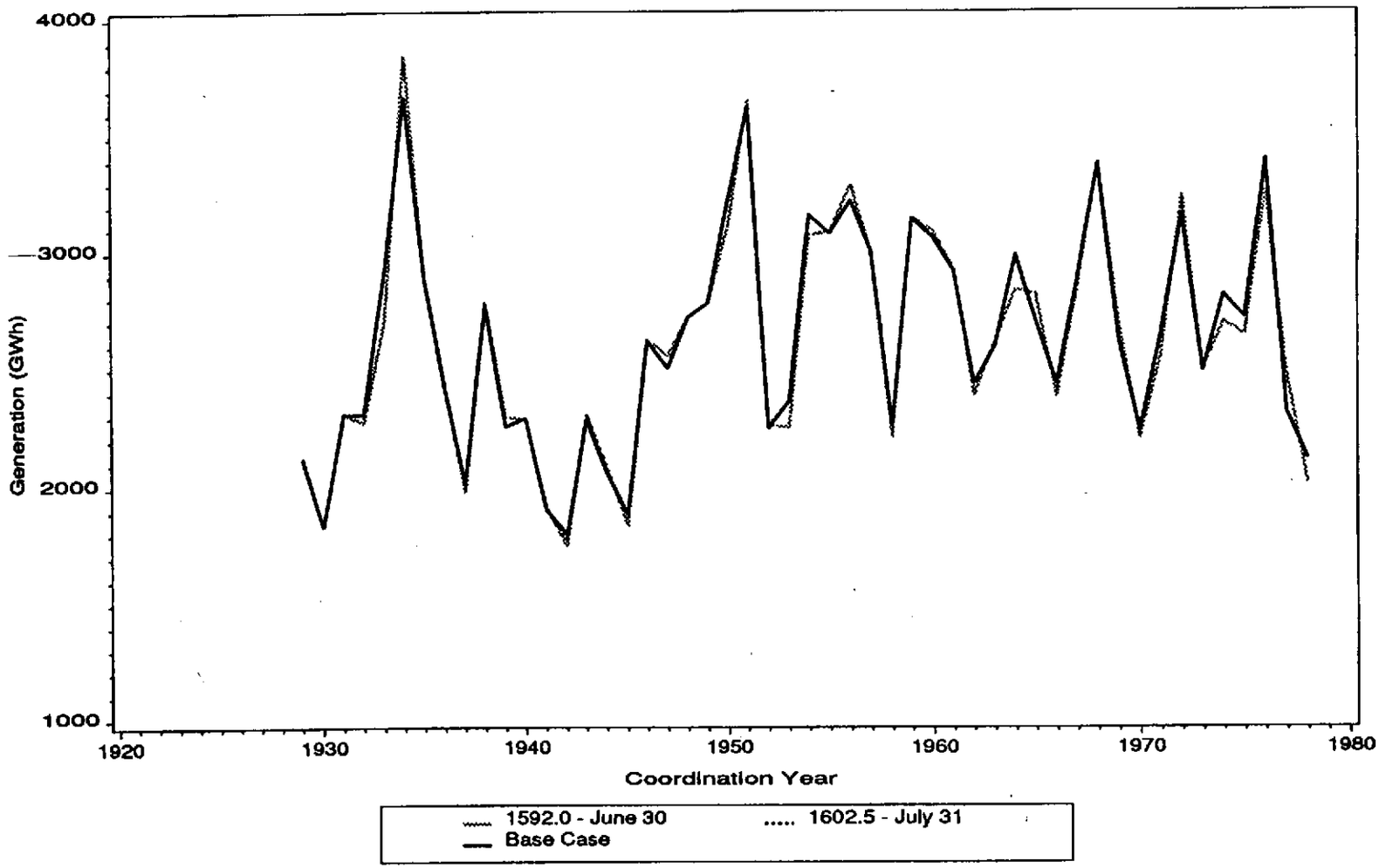


Synergic Resources Corporation -- 14DEC89

Annual Energy Production: Base Case vs. Early Refill

July 31 at 1602.5 vs. June 30 at 1592.0

Low Fisheries Flow Scenarios vs. Base Case



Synergic Resources Corporation -- 14DEC89

Analysis of Low Fisheries Flow Scenarios
Date of Refill June 30 -- Target Refill Elevation 1592

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	286	48	123	144	66	296	892	1,238	2,130
1930	168	151	67	65	129	198	207	123	260	189	147	135	790	1,050	1,839
1931	299	167	86	65	169	252	270	226	246	172	102	258	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	197	173	138	187	976	1,297	2,273
1933	171	163	157	148	322	229	369	331	342	196	167	109	806	1,898	2,705
1934	393	270	163	249	358	295	360	326	345	320	397	373	1,753	2,095	3,848
1935	305	314	92	78	238	227	345	324	287	300	136	242	1,296	1,589	2,886
1936	304	184	146	145	137	166	294	137	234	175	276	228	1,168	1,258	2,426
1937	113	186	144	87	136	215	306	47	225	169	41	313	821	1,160	1,981
1938	302	321	140	101	193	222	328	191	142	258	330	257	1,468	1,317	2,785
1939	184	224	114	68	121	148	326	275	236	189	131	281	1,008	1,288	2,296
1940	154	193	149	83	163	217	338	302	235	195	131	128	800	1,488	2,288
1941	122	165	59	124	141	117	334	229	269	231	34	95	647	1,272	1,919
1942	56	101	50	37	237	232	342	153	304	37	86	113	393	1,356	1,748
1943	157	126	157	93	84	225	326	268	230	248	178	217	926	1,383	2,309
1944	362	190	154	81	118	230	216	170	239	165	38	128	883	1,208	2,091
1945	254	152	87	57	117	238	304	181	173	114	52	107	680	1,157	1,836
1946	142	321	157	122	183	92	332	269	232	204	308	263	1,237	1,386	2,623
1947	260	166	173	162	138	228	329	261	229	185	142	283	1,034	1,520	2,555
1948	211	146	171	158	242	228	334	270	229	157	285	289	1,089	1,632	2,721
1949	266	196	166	158	246	236	334	264	222	176	247	266	1,151	1,627	2,779
1950	205	306	134	109	324	242	373	327	345	268	292	182	1,253	1,855	3,108
1951	403	232	166	168	348	372	338	315	365	330	325	296	1,586	2,072	3,658
1952	253	158	167	169	217	232	257	209	82	187	127	204	928	1,333	2,261
1953	161	173	148	73	118	140	313	266	243	263	226	128	951	1,300	2,252
1954	311	191	162	168	262	227	372	322	353	314	305	85	1,207	1,866	3,073
1955	432	319	182	175	367	232	340	206	245	263	96	229	1,339	1,748	3,086
1956	350	208	168	216	375	233	372	273	293	217	282	309	1,365	1,929	3,294
1957	364	201	159	228	241	233	343	273	240	208	237	277	1,287	1,716	3,004
1958	308	215	82	52	107	232	326	190	145	100	219	233	1,075	1,135	2,211
1959	300	220	93	107	231	317	367	334	297	317	321	245	1,403	1,746	3,149
1960	328	180	209	246	356	230	369	270	238	193	165	304	1,169	1,918	3,087
1961	251	180	170	153	233	227	316	257	353	276	225	288	1,220	1,709	2,929
1962	314	232	141	80	156	230	322	266	245	191	86	124	948	1,440	2,387
1963	165	167	168	159	225	254	335	262	247	207	243	182	964	1,651	2,615
1964	143	167	163	183	294	226	334	333	265	329	191	213	1,044	1,796	2,840
1965	374	220	166	176	242	230	332	264	229	191	134	263	1,182	1,638	2,820
1966	223	190	174	172	233	229	314	242	94	192	88	231	923	1,458	2,381
1967	225	172	149	144	178	260	335	331	355	266	177	257	1,097	1,752	2,848
1968	350	181	161	210	308	228	356	322	359	347	332	233	1,443	1,945	3,388
1969	301	168	160	160	233	233	330	273	217	166	175	277	1,087	1,606	2,693
1970	218	151	146	179	226	233	198	267	47	258	80	202	909	1,296	2,205
1971	105	237	111	60	91	235	322	312	297	315	262	208	1,128	1,429	2,557
1972	352	237	170	178	206	226	328	256	294	322	301	377	1,589	1,657	3,246
1973	445	278	164	165	216	223	207	226	205	151	46	165	1,085	1,406	2,492
1974	207	198	89	56	112	224	351	328	345	316	201	271	1,193	1,506	2,699
1975	409	280	165	98	142	229	333	272	236	175	124	178	1,166	1,476	2,642
1976	316	168	170	166	312	383	366	331	357	325	314	58	1,181	2,085	3,267
1977	384	309	173	165	116	114	334	247	155	252	36	193	1,174	1,304	2,478
1978	301	188	62	59	118	229	329	119	180	195	89	143	916	1,097	2,013

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1592

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	5146	1000	1000	3655	3069	2841	1144	2377	6601	5456
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	3999	4000	3000	3000	2460	3367
1931	5851	5495	2962	3648	1888	1357	3114	4490	5173	4769	4644	5103	2607	4814	3786	1352	5915	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3518	4000	4000	3246	3000	4616	4048
1933	5000	2337	3449	3134	2994	2807	6362	4200	6557	6600	6599	6601	2744	5870	4786	2625	1926	3664
1934	9239	9768	6220	4397	3301	6350	6854	5681	6600	6600	6599	6600	6600	6601	7545	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6599	6601	4500	5886	6551	4973	3000	3000	5000	5373
1936	5850	5932	3694	3526	2977	2676	2504	3023	5325	2771	4500	4500	4000	4000	6600	5120	5000	5001
1937	3436	1779	4048	3222	2833	1667	2473	3964	5489	1000	4310	4458	4729	2483	1222	1350	6600	6600
1938	5850	5850	5850	5850	2768	2125	3887	4200	6000	3870	4379	1289	6600	4001	6599	6599	5556	5502
1939	5000	2792	3894	4384	2366	1395	2305	2808	6000	5499	4500	4500	4000	4000	3000	3000	6600	4729
1940	4161	2662	3568	3894	2871	1757	3195	4200	6000	6085	4501	4500	4000	4001	3000	3000	4364	1497
1941	2825	2426	3581	2912	1403	2769	2678	2347	6000	4644	5279	4841	4932	4511	1000	1110	3336	1197
1942	1584	1526	1273	3073	1325	1120	4500	4344	6000	3106	6600	4663	1000	1000	1000	3000	3665	1731
1943	4374	2451	3045	2180	2995	1731	1739	4200	6000	5500	4500	4500	4000	6596	3000	4448	4986	4481
1944	8220	8021	4560	2910	2995	1627	2226	4199	3957	3487	4965	4105	4069	2771	1121	1250	4301	1611
1945	5084	4784	3133	2929	2045	1297	2369	4456	5818	4012	3489	3358	2214	2735	1581	1766	1513	3794
1946	4064	2138	5850	5850	3133	2495	3531	1764	6000	5500	4500	4500	4000	4758	6600	6600	6600	4645
1947	5849	4788	3713	3012	3300	3000	2598	4200	6000	5499	4499	4500	4000	4000	3000	3810	5000	6600
1948	5000	3603	2949	2818	3300	3300	4500	4200	6000	5500	4500	4320	4000	2850	5815	6599	6600	6600
1949	5850	4605	3971	3899	3300	3000	4500	4200	6000	5500	4500	4500	4000	4001	6599	4598	6333	5000
1950	5000	3727	5850	5612	2816	2209	6496	4395	6600	6600	6600	6600	6600	4709	6654	6038	2645	6600
1951	12507	8570	4967	4410	3300	3323	6663	7132	5999	6600	6600	6600	6600	6600	6600	6600	6600	5866
1952	5974	4344	3669	2712	3301	3301	4045	4156	4642	4363	1000	2212	4001	4000	3000	3000	4999	3902
1953	4891	2332	3726	3293	2901	1452	2174	2535	6000	5500	4501	4500	4000	6600	4935	4612	4445	1619
1954	6945	5804	4384	3329	3300	3300	4964	4200	6600	6600	6600	6601	6600	6480	6600	6601	1752	3211
1955	12705	10801	6853	5779	3701	3284	7587	4200	6000	4158	4500	4500	4000	6599	3090	1589	5849	4679
1956	6870	8626	5086	3263	3300	4714	7713	4201	6600	5500	6196	5154	2994	6600	5726	6600	6599	6600
1957	9311	7901	4134	3931	3300	4946	4509	4387	6000	5500	4500	4500	4576	4001	3625	6600	6600	5000
1958	5851	5851	5340	2939	1842	1149	2089	4200	6000	4033	1206	4234	1662	2581	3000	6600	5000	5236
1959	5851	5850	5850	2840	2075	2304	4500	6023	6600	6601	6600	4500	6600	6600	6600	6473	6047	5058
1960	6079	8285	4083	3168	4329	6054	6934	4200	6532	5500	4500	4500	4000	4000	4110	3000	6600	6351
1961	5849	4599	4035	3119	3300	3000	4455	4201	6000	5501	6600	6600	5320	5947	3000	6600	6600	6600
1962	7050	5850	5850	3444	2791	1773	2976	4200	6000	5501	4500	4501	4000	4000	1000	2999	1705	4619
1963	3774	3438	4113	2864	3300	3000	4500	4764	6000	5500	4500	4500	4000	3999	3000	6600	5000	3038
1964	3793	2367	3816	2849	3300	3636	5574	4200	6000	6600	4500	5230	6600	6600	3480	4773	6600	3381
1965	9993	8020	5029	3803	3300	3370	4500	4200	6000	5500	4499	4178	4000	4000	3000	3000	5801	5298
1966	5000	4238	4552	3268	3300	3300	4475	4200	5706	4949	1000	2793	4000	4000	3000	1501	5000	4827
1967	5000	4286	3977	2975	2983	2907	3364	5017	6000	6600	6599	6600	6601	4262	2984	4914	5366	6890
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6600	6600	6600	6601	6600	6600	6600	6463	4157
1969	6509	5804	3825	2964	3300	3000	4500	4200	6000	5500	4500	3920	3212	3999	3671	4556	6600	5615
1970	5120	3594	2485	3392	3086	3300	4231	4200	3651	5500	1000	1000	6600	3585	1726	2210	5001	4315
1971	2691	2329	5439	3542	2303	1213	1848	4200	6001	6600	4500	6601	6600	6511	6600	5077	6461	3001
1972	5850	11644	6431	3471	3300	3300	3920	4035	6000	5500	5457	6600	6599	6600	6600	6599	6600	13187
1973	15033	10064	6930	4533	3300	3000	3973	4200	3811	4553	3544	4143	3528	2671	1055	1818	4005	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	6600	6600	6600	6600	6600	6601	6600	2502	6055	6600
1975	10473	11016	7371	4371	3300	1813	2792	4200	6000	5500	4500	4500	4000	3286	4501	1588	6606	1832
1976	9102	5753	3497	3301	3300	3300	6010	7769	6601	6600	6600	6600	6601	6600	6601	6600	1483	2233
1977	8048	10743	7950	5196	3506	3000	2250	2163	6000	5042	3222	2623	5034	5067	1000	1000	6217	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	6000	2569	2734	4501	4000	4001	3000	1266	5096	2060

Analysis of Low Fisheries Flow Scenarios
Date of Refill June 30 -- Target Refill Elevation 1592

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1533.5	1530.7	1529.8	1520.8	1513.8	1514.0	1535.0	1563.3	1575.2	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1527.4	1542.2	1552.7	1565.8	1583.6	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.2	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1557.0	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1475.7	1481.0	1494.9	1529.0	1549.2	1571.4	1592.0
1933	1596.0	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1562.8	1527.5	1505.7	1476.5	1475.4	1475.0	1485.1	1516.2	1559.2	1592.0
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.7	1563.3	1563.3	1569.8	1594.3	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1580.8	1576.0	1569.8	1558.0	1542.1	1536.3	1546.5	1568.9	1588.8	1597.5
1936	1600.4	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1547.5	1534.1	1522.7	1509.3	1501.5	1531.7	1547.4	1572.1	1589.3	1594.5
1937	1597.6	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1531.2	1528.0	1516.6	1504.6	1492.7	1497.2	1523.1	1553.1	1579.1	1596.3
1938	1602.2	1600.0	1592.6	1582.4	1577.6	1579.4	1577.9	1572.5	1550.2	1533.2	1525.1	1529.6	1512.7	1526.2	1528.1	1555.8	1575.2	1592.0
1939	1596.2	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1564.9	1538.7	1525.3	1519.4	1520.2	1531.2	1550.6	1575.7	1578.7	1587.4
1940	1594.9	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1569.6	1545.6	1538.8	1534.9	1534.3	1538.0	1551.7	1570.9	1577.9	1587.1
1941	1589.2	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1563.1	1545.6	1533.9	1523.0	1518.8	1518.7	1534.2	1548.1	1555.3	1563.6
1942	1569.5	1574.3	1577.6	1574.7	1580.6	1596.9	1591.3	1592.1	1565.5	1554.0	1535.6	1520.8	1529.2	1540.7	1550.2	1569.7	1583.6	1595.0
1943	1598.7	1602.5	1602.5	1602.5	1594.1	1590.0	1589.0	1579.1	1553.5	1528.5	1517.8	1509.0	1517.7	1525.0	1531.7	1552.0	1572.0	1592.0
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1560.3	1545.6	1532.8	1520.8	1513.9	1514.8	1532.9	1553.2	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1568.5	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1493.4	1492.5	1524.5	1555.6	1579.4	1592.0
1946	1598.7	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.3	1550.3	1523.1	1514.0	1503.1	1496.4	1504.9	1528.7	1562.5	1577.6	1592.0
1947	1598.1	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1541.9	1523.9	1514.0	1514.9	1514.5	1528.4	1558.4	1582.8	1595.6	1598.3
1948	1600.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1550.0	1522.7	1509.3	1493.6	1479.9	1493.4	1488.0	1538.0	1585.3	1600.5
1949	1600.7	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1535.4	1502.8	1488.7	1477.0	1478.3	1499.2	1533.4	1567.1	1586.0	1592.6
1950	1598.0	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1564.7	1535.1	1522.2	1502.0	1478.8	1475.0	1475.0	1504.0	1557.0	1599.3
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1575.1	1568.5	1553.8	1537.6	1532.8	1531.1	1544.4	1563.9	1576.6	1592.0
1952	1599.0	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1537.6	1518.0	1518.6	1514.8	1510.0	1522.4	1539.4	1571.3	1583.7	1592.0
1953	1596.7	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1563.0	1550.9	1541.1	1530.9	1521.6	1516.5	1532.1	1554.0	1573.9	1592.0
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1563.8	1543.5	1529.2	1508.9	1488.3	1475.0	1484.9	1525.1	1559.1	1592.0
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1562.2	1546.1	1534.4	1520.1	1516.5	1496.2	1500.4	1531.6	1566.3	1592.0
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1521.4	1498.4	1475.7	1475.4	1489.5	1503.1	1556.0	1583.2	1597.7
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1566.7	1544.4	1537.2	1527.5	1521.5	1524.1	1565.7	1583.9	1599.1	1601.9
1958	1599.0	1593.7	1587.2	1585.3	1586.3	1588.3	1584.8	1570.0	1545.6	1536.0	1539.6	1530.5	1532.8	1536.2	1552.8	1585.1	1597.0	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.4	1549.1	1533.4	1523.7	1515.0	1514.0	1522.6	1538.9	1565.5	1592.0
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1560.4	1540.7	1529.1	1524.7	1535.0	1534.0	1550.1	1561.9	1582.8	1592.0
1961	1598.9	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1556.0	1549.2	1535.8	1520.5	1514.4	1504.0	1514.9	1546.2	1583.7	1601.8
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1562.6	1550.6	1540.2	1527.9	1524.0	1529.6	1539.3	1555.8	1575.7	1592.0
1963	1597.4	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1574.1	1573.4	1568.5	1561.1	1556.1	1552.1	1552.7	1567.9	1579.7	1592.0
1964	1597.1	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1577.3	1550.1	1540.9	1527.4	1513.4	1495.8	1498.1	1522.7	1565.8	1592.0
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1550.8	1537.0	1531.8	1524.2	1516.9	1527.2	1539.5	1564.3	1583.6	1593.0
1966	1600.3	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1542.9	1515.6	1517.2	1516.1	1525.4	1523.9	1548.5	1569.5	1581.4	1592.0
1967	1599.0	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1573.6	1549.5	1532.0	1512.5	1488.6	1475.0	1489.7	1524.1	1561.7	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1574.1	1572.4	1561.8	1548.8	1535.2	1531.6	1547.3	1572.0	1592.0
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1551.8	1521.9	1507.0	1498.1	1503.1	1510.1	1537.7	1572.8	1597.6	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1550.9	1528.4	1532.0	1535.0	1520.7	1513.7	1523.7	1552.7	1577.6	1592.0
1971	1598.4	1602.5	1595.3	1591.6	1589.4	1589.4	1587.7	1572.1	1549.8	1539.0	1530.6	1510.3	1489.5	1475.0	1516.8	1546.5	1566.4	1592.0
1972	1598.7	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1533.9	1511.9	1514.4	1514.3	1506.5	1487.8	1503.1	1552.0	1598.4	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1560.3	1539.8	1532.8	1520.8	1513.8	1514.0	1530.7	1560.4	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1565.1	1538.3	1518.7	1506.2	1488.2	1476.4	1483.9	1514.8	1551.7	1595.8
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1557.0	1530.4	1519.4	1505.2	1490.9	1487.1	1502.4	1534.9	1564.1	1589.1
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1554.6	1537.8	1518.5	1505.3	1487.9	1514.4	1532.6	1558.2	1590.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1564.1	1545.6	1541.1	1536.8	1528.2	1528.4	1543.5	1554.7	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1526.9	1519.8	1515.5	1516.8	1516.2	1515.3	1526.6	1549.3	1573.0	1591.3

Analysis of Low Fisheries Flow Scenarios
Plant ROSS -- Date of Refill June 30 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Analysis of Low Fisheries Flow Scenarios
Plant DIABLO -- Date of Refill June 30 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1934	33	45	0	0	0	79	0	0	0	0	0	0	0	0	8	80	47	0	291
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	15	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	79	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	106
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	79	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	152
1956	0	24	0	0	0	28	24	0	0	0	0	0	0	0	0	0	0	0	75
1957	31	13	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	81
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	90
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
1965	40	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	65
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	156
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	49	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
1976	24	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	45
1977	13	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill June 30 -- Target Refill Elevation 1592

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	49	60	3	0	0	61	4	0	0	0	0	0	0	0	12	85	51	0	326
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	33	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	98	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	151
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1955	101	77	13	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	216
1956	13	42	0	0	0	11	29	0	0	0	0	0	0	0	0	0	0	0	95
1957	50	31	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	98
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	1	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	96
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	60	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	69
1969	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	90	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	194
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	67	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
1976	47	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	79
1977	31	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ALTERNATIVE 11 - REFILL TO 1601.5 ON MAY 31
LICENSE REQUIREMENT FISHERIES FLOWS

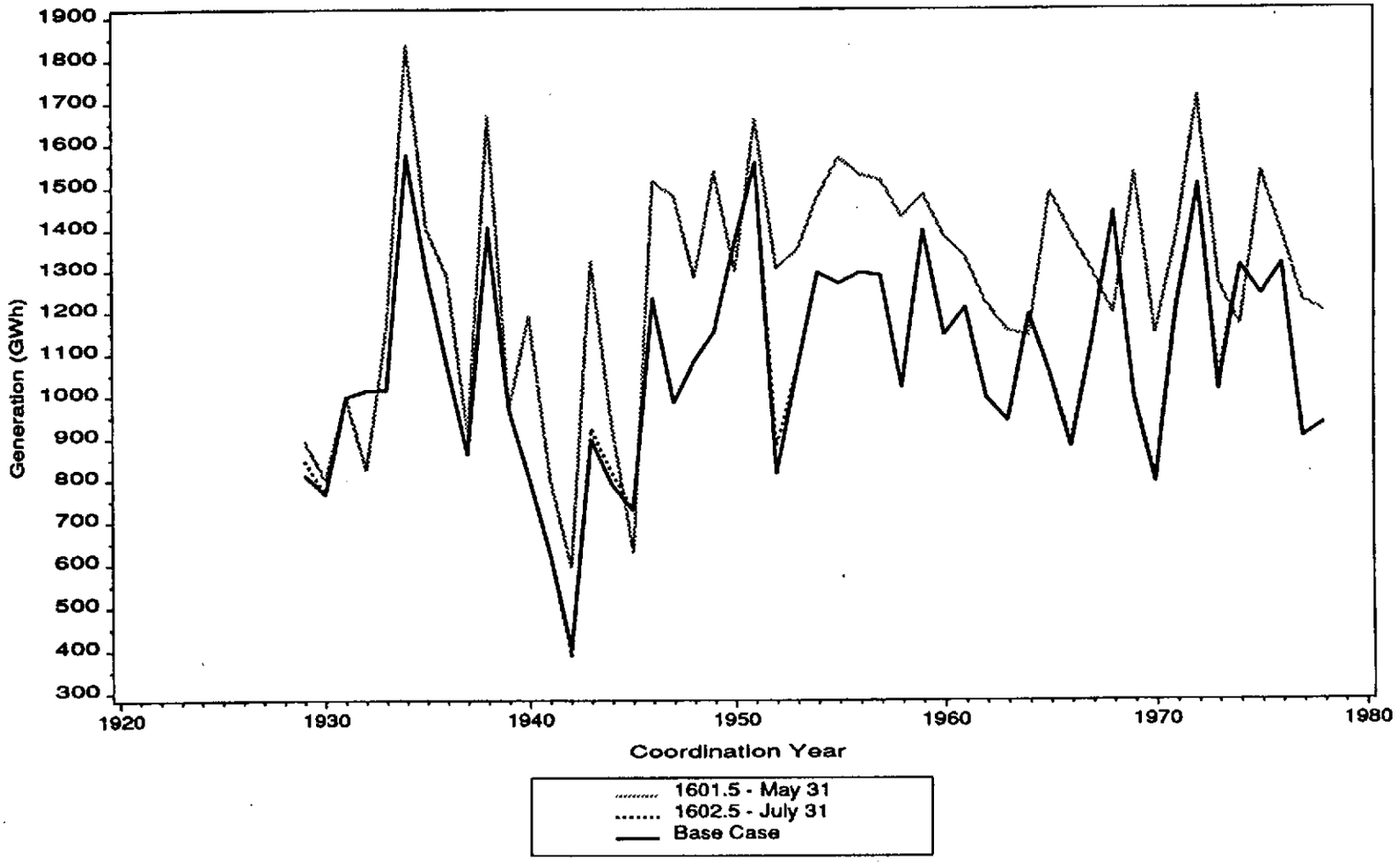
Energy Production: Base Case (Interim) vs. Early Refill (License)
July 31 at 1602.5 vs. May 31 at 1601.5 License Minimum Flow Scenario

	Electric Generation (GWh)				Electric Generation (GWh)	
	Season					
	Summer		Winter		Annual Energy	
	Base Case	1601.5 - May 31	Base Case	1601.5 - May 31	Base Case	1601.5 - May 31
1929	812	893	1,311	1,239	2,123	2,132
1930	766	800	1,067	1,050	1,834	1,850
1931	997	997	1,313	1,313	2,311	2,311
1932	1,013	824	1,297	1,294	2,310	2,118
1933	1,015	1,165	1,898	1,335	2,914	2,499
1934	1,577	1,836	2,095	1,986	3,672	3,821
1935	1,296	1,400	1,589	1,381	2,886	2,781
1936	1,073	1,287	1,341	1,053	2,413	2,340
1937	862	909	1,160	1,160	2,021	2,069
1938	1,396	1,669	1,377	868	2,773	2,538
1939	969	972	1,288	1,274	2,257	2,247
1940	804	1,190	1,488	1,181	2,292	2,371
1941	622	801	1,283	1,232	1,905	2,034
1942	406	591	1,398	1,081	1,804	1,672
1943	899	1,323	1,386	848	2,285	2,170
1944	788	926	1,275	1,209	2,064	2,135
1945	728	627	1,157	1,157	1,885	1,784
1946	1,231	1,512	1,388	884	2,619	2,396
1947	984	1,477	1,520	1,108	2,504	2,585
1948	1,082	1,282	1,637	1,032	2,719	2,314
1949	1,151	1,534	1,627	1,095	2,779	2,629
1950	1,371	1,298	1,855	1,468	3,225	2,766
1951	1,557	1,659	2,072	1,789	3,628	3,448
1952	816	1,303	1,432	932	2,248	2,235
1953	1,063	1,348	1,300	861	2,363	2,209
1954	1,295	1,477	1,866	1,393	3,161	2,871
1955	1,268	1,568	1,812	1,233	3,080	2,802
1956	1,295	1,527	1,929	1,463	3,224	2,990
1957	1,287	1,515	1,716	1,386	3,004	2,901
1958	1,021	1,427	1,239	693	2,260	2,121
1959	1,398	1,483	1,746	1,328	3,144	2,811
1960	1,144	1,379	1,918	1,498	3,062	2,877
1961	1,210	1,328	1,709	1,351	2,919	2,680
1962	997	1,218	1,440	1,019	2,437	2,238
1963	942	1,154	1,651	1,451	2,593	2,605
1964	1,194	1,142	1,796	1,391	2,990	2,532
1965	1,056	1,489	1,647	1,175	2,703	2,664
1966	880	1,387	1,555	950	2,436	2,336
1967	1,133	1,295	1,752	1,239	2,884	2,534
1968	1,442	1,194	1,945	1,900	3,386	3,095
1969	997	1,532	1,622	1,036	2,619	2,568
1970	795	1,144	1,446	923	2,241	2,066
1971	1,215	1,389	1,436	993	2,650	2,382
1972	1,506	1,713	1,657	1,226	3,164	2,940
1973	1,014	1,268	1,472	1,230	2,485	2,498
1974	1,312	1,167	1,506	1,082	2,817	2,250
1975	1,241	1,536	1,476	927	2,717	2,463
1976	1,315	1,384	2,085	1,742	3,400	3,126
1977	903	1,224	1,413	1,304	2,316	2,529
1978	936	1,200	1,184	602	2,120	1,802

Synergic Resources Corporation -- 22JAN90

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1601.5
Low Fisheries Flow Scenarios vs. Base Case

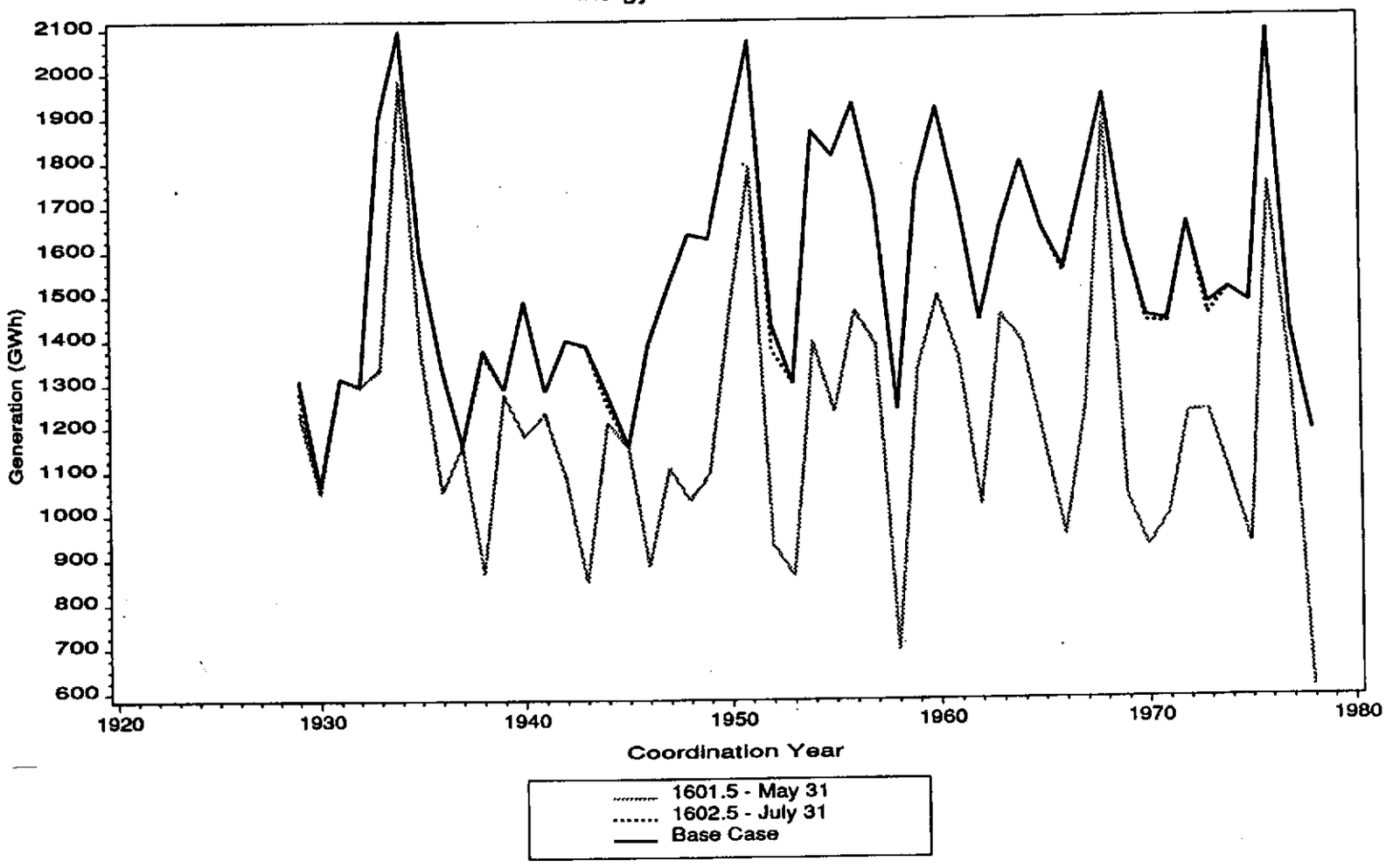
Energy Season=Summer



Synergic Resources Corporation -- 14DEC89

Seasonal Energy Production: Base Case vs. Early Refill
July 31 at 1602.5 vs. May 31 at 1601.5
Low Fisheries Flow Scenarios vs. Base Case

Energy Season=Winter

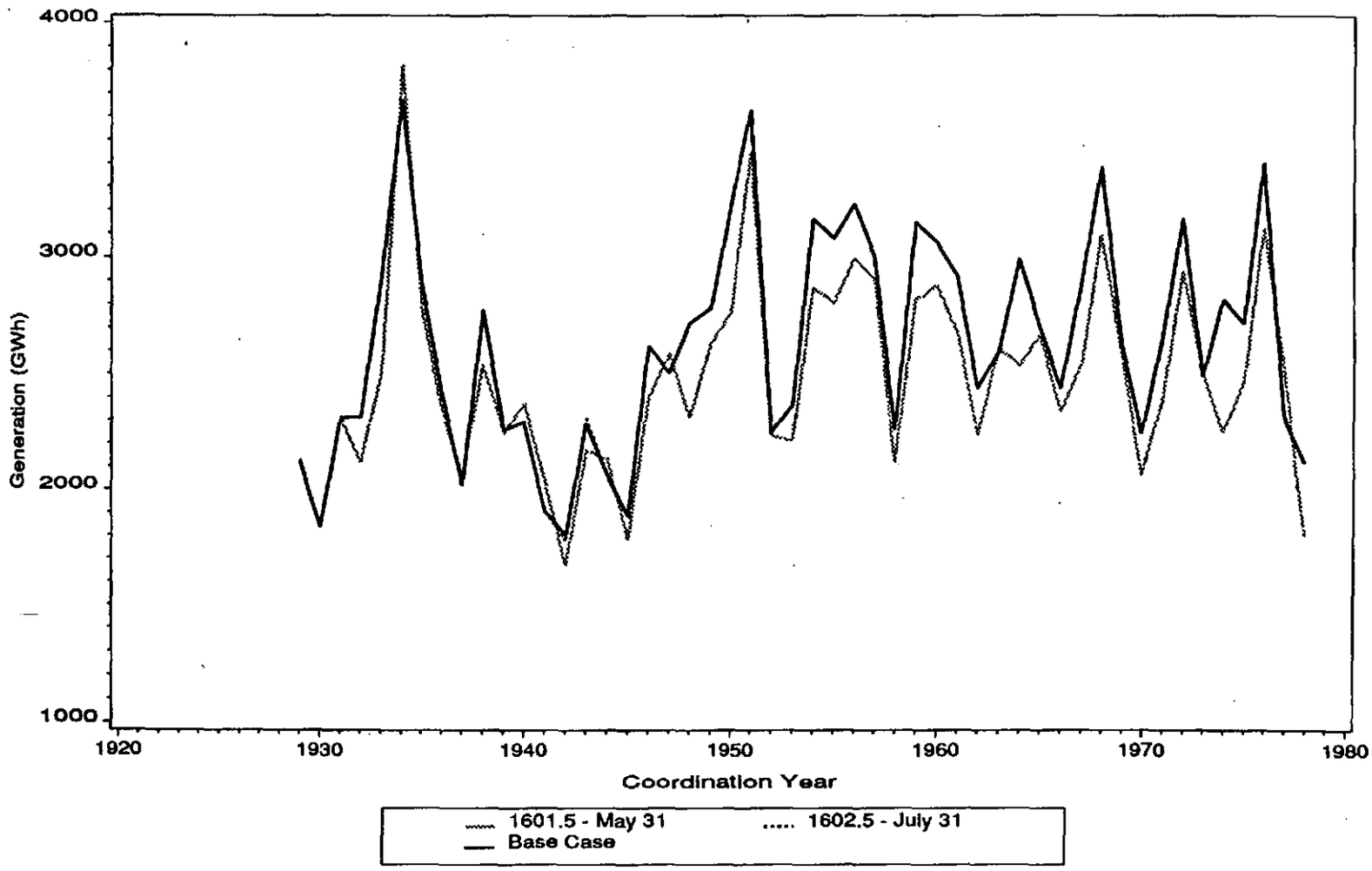


Synergic Resources Corporation -- 14DEC89

Annual Energy Production: Base Case vs. Early Refill

July 31 at 1602.5 vs. May 31 at 1601.5

Low Fisheries Flow Scenarios vs. Base Case



Synergic Resources Corporation -- 14DEC89

Analysis of Low Fisheries Flow Scenarios
Date of Refill May 31 -- Target Refill Elevation 1601.5

	Electric Generation (GWh)												Electric Generation (GWh)		Annual Energy (GWh)
	Month												Season		
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	
1929	263	123	173	148	243	217	53	166	239	144	56	306	893	1,239	2,132
1930	168	151	67	65	129	198	207	123	260	105	71	306	800	1,050	1,850
1931	299	167	86	65	169	252	270	226	246	172	102	258	997	1,313	2,311
1932	296	182	94	63	137	234	288	284	195	40	46	260	824	1,294	2,118
1933	282	163	157	148	322	229	183	245	49	148	109	463	1,165	1,335	2,499
1934	437	270	163	249	358	295	360	332	229	339	416	373	1,836	1,986	3,821
1935	305	314	92	78	238	227	336	282	128	353	42	387	1,400	1,381	2,781
1936	343	184	146	145	137	166	48	49	362	55	330	374	1,287	1,053	2,340
1937	201	186	144	87	136	215	232	112	234	169	41	313	909	1,160	2,069
1938	302	321	140	101	193	222	44	48	120	272	354	420	1,669	868	2,538
1939	294	224	114	68	121	148	268	287	268	35	49	370	972	1,274	2,247
1940	310	193	149	83	163	217	194	334	41	116	229	342	1,190	1,181	2,371
1941	232	165	59	124	141	117	97	336	359	275	34	95	801	1,232	2,034
1942	56	101	50	37	237	232	77	74	374	38	53	343	591	1,081	1,672
1943	240	126	157	93	84	225	45	43	201	337	194	425	1,323	848	2,170
1944	406	190	154	81	118	230	138	248	239	165	38	128	926	1,209	2,135
1945	254	152	87	57	117	238	304	181	173	114	52	55	627	1,157	1,784
1946	196	321	157	122	183	92	54	130	147	213	375	408	1,512	884	2,396
1947	342	166	173	162	138	228	71	187	149	264	324	382	1,477	1,108	2,585
1948	259	146	171	158	242	228	80	47	106	147	306	424	1,282	1,032	2,314
1949	289	196	166	158	246	236	52	46	189	334	331	384	1,534	1,095	2,629
1950	305	306	134	109	324	242	318	165	176	41	163	483	1,298	1,468	2,766
1951	417	232	166	168	348	372	319	300	116	341	249	420	1,659	1,789	3,448
1952	331	158	167	169	217	232	53	43	51	222	221	372	1,303	932	2,235
1953	271	173	148	73	118	140	32	291	59	238	271	394	1,348	861	2,209
1954	357	191	162	168	262	227	235	232	107	126	349	453	1,477	1,393	2,871
1955	477	319	182	175	367	232	95	46	135	285	44	445	1,568	1,233	2,802
1956	396	208	168	216	375	233	372	47	52	185	312	426	1,527	1,463	2,990
1957	385	201	159	228	241	233	301	71	154	215	357	357	1,515	1,386	2,901
1958	308	222	82	52	107	232	43	39	138	148	381	370	1,427	693	2,121
1959	300	220	93	107	231	317	365	167	48	336	178	449	1,483	1,328	2,811
1960	381	180	209	246	356	230	293	53	111	204	210	404	1,379	1,498	2,877
1961	332	180	170	153	233	227	31	287	250	200	185	432	1,328	1,351	2,680
1962	318	232	141	80	156	230	265	49	98	168	108	393	1,218	1,019	2,238
1963	281	167	168	159	225	254	192	239	214	132	196	377	1,154	1,451	2,605
1964	258	167	163	183	294	226	228	242	56	234	46	436	1,142	1,391	2,532
1965	418	220	166	176	242	230	47	174	140	226	227	397	1,489	1,175	2,664
1966	305	190	174	172	233	229	48	47	46	259	243	390	1,387	950	2,336
1967	321	172	149	144	178	260	277	177	54	203	115	483	1,295	1,239	2,534
1968	350	181	161	210	308	228	356	310	327	198	46	420	1,194	1,900	3,095
1969	350	168	160	160	233	233	44	137	68	283	352	379	1,532	1,036	2,568
1970	218	151	146	179	226	233	48	42	49	354	45	376	1,144	923	2,066
1971	220	237	111	60	91	235	38	321	136	135	369	428	1,389	993	2,382
1972	409	237	170	178	206	226	48	54	345	318	295	454	1,713	1,226	2,940
1973	445	278	164	165	216	223	46	46	369	334	46	165	1,268	1,230	2,498
1974	207	198	89	56	112	224	300	144	156	212	66	483	1,167	1,082	2,250
1975	438	280	165	98	142	229	89	79	125	355	47	416	1,536	927	2,463
1976	372	168	170	166	312	383	366	286	59	147	259	439	1,384	1,742	3,126
1977	434	309	173	165	116	114	291	290	155	252	36	193	1,224	1,304	2,529
1978	301	188	62	59	118	229	50	43	40	271	46	393	1,200	602	1,802

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Outflow (Average CFS)																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3299	2999	4456	3904	1000	3302	4456	4421	3069	2841	1144	2030	6601	5826
1930	4183	2717	3540	2545	1413	1258	2356	3560	3760	2840	4561	5445	2600	2246	1158	2076	6600	5208
1931	5851	5495	2962	3648	1888	1357	3114	4490	5173	4769	4644	5103	2607	4814	3786	1352	5915	5082
1932	5850	5851	3688	3508	2073	1257	2814	4330	5485	6596	5042	3422	1092	1529	1544	1325	2571	11090
1933	6489	4666	3449	3134	2994	2807	6362	4200	3324	4761	1000	1000	1000	4972	2680	2040	13496	15179
1934	13212	9768	6220	4397	3301	6350	6854	5681	6600	6718	2322	6600	6600	7557	10646	12065	10132	6596
1935	5850	5850	5850	5898	1923	1629	4815	4200	6443	5791	3957	1000	6599	6601	1075	1571	9190	8622
1936	6960	6695	3694	3526	2977	2676	2504	3023	1000	1000	6600	6600	1000	2308	6600	6600	11048	6936
1937	4981	3176	4048	3222	2833	1667	2473	3964	4162	2286	4652	4458	4729	2483	1222	1350	6600	6600
1938	5850	5850	5850	5850	2768	2125	3887	4200	1000	1000	1000	3469	5257	5267	6599	6869	11957	11661
1939	6579	5037	3894	4384	2366	1395	2305	2808	4974	5716	4327	5745	1000	1157	1316	1768	7074	7970
1940	6956	5374	3568	3894	2871	1757	3195	4200	3501	6601	1000	1000	2538	2403	5708	3575	6600	6600
1941	5850	3186	3581	2912	1403	2769	2678	2347	1896	6599	6600	6599	6568	4511	1000	1110	3336	1197
1942	1584	1526	1273	3073	1325	1120	4500	4344	1414	1527	6600	6600	1000	1000	1000	1847	8150	5979
1943	5753	3836	3045	2180	2995	1731	1739	4200	1076	1000	3050	4357	6600	6600	4595	3231	11055	11718
1944	12193	8021	4560	2910	2995	1627	2226	4199	2589	5002	4965	4105	4069	2771	1121	1250	4301	1611
1945	5084	4784	3133	2929	2045	1297	2369	4456	5818	4012	3489	3358	2214	2735	1581	1766	1513	1938
1946	4839	3151	5850	5850	3133	2495	3531	1764	1106	2636	1694	3720	5789	2708	6600	11233	11680	10010
1947	8139	6366	3713	3012	3300	3000	2598	4200	1423	3879	1990	3714	4880	5616	6600	6369	9364	7603
1948	5862	4330	2949	2818	3300	3300	4500	4200	1535	1000	2547	1388	4186	1694	3963	10029	22012	12261
1949	5943	5268	3971	3899	3300	3000	4500	4200	1000	1000	4037	3029	6600	6589	6599	7146	12984	7461
1950	7021	5346	5850	5612	2816	2209	6496	4395	5627	3356	2027	4571	1049	1000	4050	3018	16361	21520
1951	13759	8570	4967	4410	3300	3323	6663	7132	5676	6304	2622	1697	6600	6600	3813	6309	10476	11543
1952	8582	5624	3669	2712	3301	3301	4045	4156	1000	1000	1000	1000	3836	5038	2949	6031	8983	6986
1953	6642	4415	3726	3293	2901	1452	2174	2535	1118	5820	1000	1306	2524	6600	5293	5405	10547	8216
1954	10918	5804	4384	3329	3300	3300	4964	4200	4208	4743	1884	2156	1000	4102	6600	7118	11508	14775
1955	16678	10801	6853	5779	3701	3284	7587	4200	1751	1000	2324	2428	4001	6599	1000	1589	13869	13835
1956	10843	8626	5086	3263	3300	4714	7713	4201	6600	1000	1000	1000	1000	6600	4093	11466	15817	12010
1957	11146	7901	4134	3931	3300	4946	4509	4387	5263	1525	1894	3759	6600	1924	6600	8891	12231	6105
1958	5851	5851	5577	2939	1842	1149	2089	4200	1000	1000	1799	3196	2075	3672	6562	11207	9403	7360
1959	5851	5850	5850	2840	2075	2304	4500	6023	6569	3335	1000	1000	6600	6600	4053	3490	13871	14483
1960	10052	8285	4083	3168	4329	6054	6934	4200	5196	1216	1000	3154	5135	2949	6600	1969	13404	9794
1961	8438	5897	4035	3119	3300	3000	4455	4201	1000	5916	4553	4597	1233	6600	1000	6729	18564	13410
1962	7315	5850	5850	3444	2791	1773	2976	4200	4996	1260	2626	1000	1478	5310	2300	2413	7894	10595
1963	5786	5277	4113	2864	3300	3000	4500	4764	3524	4983	4230	3488	2216	2933	1799	5926	8656	7610
1964	5693	4311	3816	2849	3300	3636	5574	4200	4167	4746	1000	1188	2299	6600	1000	1775	18345	12701
1965	13966	8020	5029	3803	3300	3370	4500	4200	1000	3604	3090	2164	6600	2273	4859	4200	12116	8800
1966	7719	5065	4552	3268	3300	3300	4475	4200	1000	1000	1000	1000	6433	3556	6600	3155	8718	8790
1967	7624	5551	3977	2975	2983	2907	3364	5017	4998	3570	1000	1164	1000	6600	1000	4204	15818	21568
1968	9992	5995	4273	3207	3300	4658	5770	4201	6600	6363	6609	5482	1000	6600	1031	1822	13145	11394
1969	10482	5804	3825	2964	3300	3000	4500	4200	1000	2686	1000	1590	5321	5629	6601	8271	15657	7499
1970	5120	3594	2485	3392	3086	3300	4231	4200	1000	1000	1000	1000	6600	6600	1000	1653	7872	9654
1971	5076	3818	5439	3542	2303	1213	1848	4200	1000	6580	2729	2343	3751	1682	6600	9783	12709	12123
1972	8338	13037	6431	3471	3300	3300	3920	4035	1000	1371	6600	6600	6599	5529	4423	8915	22675	14786
1973	15033	10064	6930	4533	3300	3000	3973	4200	1000	1000	6600	6600	6600	6365	1055	1818	4005	3450
1974	4427	4123	4458	3422	1928	1284	2294	4200	5701	2946	1394	4487	6235	2082	2146	1467	14869	21808
1975	13032	11016	7371	4371	3300	1813	2792	4200	1728	1609	3266	1396	6600	6600	1458	1588	10500	10645
1976	14159	5753	3497	3301	3300	3300	6010	7769	6601	5707	1428	1000	1341	4490	5695	4827	8667	13478
1977	12599	10743	7950	5196	3506	3000	2250	2163	5252	5870	3222	2623	5034	5067	1000	1000	6217	2352
1978	5819	5833	4211	3873	1440	1221	2625	4592	1000	1000	1000	1038	6600	3667	1354	1266	12292	8701

Analysis of Low Fisheries Flow Scenarios
Date of Refill May 31 -- Target Refill Elevation 1601.5

	Ending Ross Elevation																	
	Period Name																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1594.2	1595.2	1579.6	1563.6	1562.1	1545.6	1532.8	1520.8	1513.8	1514.0	1535.0	1564.4	1576.3	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.8	1584.2	1574.5	1557.4	1535.9	1537.9	1527.2	1517.2	1532.8	1552.6	1568.3	1583.0	1588.5	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.1	1589.2	1579.4	1557.5	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1557.0	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1552.6	1552.8	1550.7	1531.7	1497.6	1475.0	1475.7	1476.3	1498.7	1520.1	1553.7	1576.9	1601.5	1602.5
1933	1602.5	1602.5	1602.5	1602.5	1595.8	1592.1	1592.1	1589.4	1582.2	1562.0	1563.1	1565.4	1570.0	1572.5	1583.3	1601.5	1602.5	1602.5
1934	1602.5	1602.5	1602.5	1602.5	1601.2	1598.8	1592.1	1592.1	1583.0	1567.0	1575.3	1575.3	1581.5	1602.5	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1584.8	1586.7	1592.1	1586.6	1581.7	1581.1	1576.9	1580.5	1566.3	1556.1	1571.2	1594.9	1602.5	1602.5
1936	1602.5	1602.5	1602.5	1600.9	1600.0	1593.4	1584.9	1574.2	1575.3	1573.5	1558.5	1540.3	1544.7	1572.6	1585.3	1602.1	1602.5	1602.5
1937	1601.5	1602.5	1599.9	1597.3	1591.5	1588.9	1579.1	1564.1	1541.0	1529.4	1516.6	1504.6	1492.7	1497.2	1523.1	1553.1	1579.1	1596.3
1938	1602.2	1600.0	1592.6	1582.4	1577.6	1579.4	1577.9	1572.5	1581.5	1582.5	1586.0	1582.7	1574.9	1580.7	1581.9	1602.5	1602.5	1602.5
1939	1602.5	1602.5	1599.0	1592.8	1590.9	1591.5	1586.1	1582.3	1571.2	1544.5	1532.7	1521.7	1534.3	1553.0	1575.6	1601.1	1602.5	1602.5
1940	1602.5	1602.5	1602.5	1598.6	1592.0	1592.7	1587.6	1591.5	1584.3	1559.5	1563.9	1571.8	1575.6	1582.9	1586.6	1601.5	1601.8	1597.4
1941	1591.4	1590.5	1586.9	1584.6	1586.9	1592.7	1587.3	1587.7	1587.3	1561.4	1546.0	1529.7	1518.8	1518.7	1534.2	1548.1	1555.3	1563.6
1942	1569.5	1574.3	1577.6	1574.7	1580.6	1596.9	1591.3	1592.1	1592.1	1590.2	1575.3	1557.6	1563.9	1573.4	1581.6	1601.5	1602.5	1602.5
1943	1602.5	1602.5	1602.5	1602.5	1594.1	1590.0	1589.0	1579.1	1583.8	1586.9	1583.8	1578.4	1577.1	1581.9	1582.2	1601.5	1602.5	1602.5
1944	1602.5	1602.5	1602.5	1602.5	1597.3	1596.7	1590.7	1576.9	1568.7	1545.6	1532.8	1520.8	1513.9	1514.8	1532.9	1553.2	1563.8	1577.1
1945	1572.5	1568.1	1566.2	1562.9	1565.1	1568.5	1564.4	1548.5	1524.1	1514.4	1505.4	1496.9	1493.4	1492.5	1524.5	1555.6	1579.4	1597.0
1946	1601.5	1602.5	1594.7	1583.8	1577.4	1579.7	1576.5	1577.3	1581.0	1574.7	1576.4	1571.5	1562.5	1573.4	1589.1	1602.5	1602.5	1602.5
1947	1602.5	1602.5	1602.5	1602.5	1595.0	1587.1	1579.6	1569.9	1571.8	1566.4	1566.7	1569.8	1566.9	1572.2	1586.6	1601.5	1602.5	1602.5
1948	1602.5	1602.5	1602.5	1600.6	1592.4	1594.7	1583.3	1574.9	1578.4	1580.5	1576.9	1577.1	1569.6	1579.7	1582.2	1602.5	1602.5	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1599.2	1598.1	1584.0	1568.5	1568.9	1570.3	1564.2	1562.9	1555.4	1558.6	1582.3	1602.5	1602.5	1602.5
1950	1602.5	1602.5	1598.1	1589.4	1588.6	1589.4	1591.9	1592.1	1570.7	1561.9	1565.6	1557.9	1562.6	1571.7	1579.3	1601.5	1602.5	1602.5
1951	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1592.1	1577.1	1572.1	1569.9	1571.0	1567.1	1565.6	1584.5	1601.5	1602.5	1602.5
1952	1602.5	1602.5	1602.5	1602.5	1596.9	1591.4	1579.6	1563.6	1562.4	1566.1	1566.5	1567.6	1564.6	1570.5	1583.3	1601.5	1602.5	1602.5
1953	1602.5	1602.5	1602.5	1599.7	1593.3	1591.7	1584.1	1574.6	1591.6	1579.8	1581.2	1582.7	1580.5	1577.1	1586.6	1601.5	1602.5	1602.5
1954	1602.5	1602.5	1602.5	1602.5	1598.6	1598.4	1592.1	1588.6	1578.4	1570.1	1572.2	1571.5	1576.7	1577.0	1581.6	1602.5	1602.5	1602.5
1955	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1586.9	1587.3	1589.8	1586.5	1582.7	1580.3	1567.6	1576.0	1596.0	1602.5	1602.5
1956	1602.5	1602.5	1602.5	1602.5	1597.5	1598.8	1592.1	1582.9	1551.4	1551.6	1551.6	1553.5	1559.9	1567.0	1579.0	1602.5	1602.5	1602.5
1957	1602.5	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1592.1	1571.2	1572.5	1574.0	1568.6	1558.0	1566.3	1592.2	1602.5	1602.5	1602.5
1958	1599.7	1594.4	1587.2	1585.3	1586.3	1588.3	1584.8	1570.0	1577.8	1585.4	1586.5	1582.7	1583.3	1582.9	1586.6	1602.5	1602.5	1602.5
1959	1599.6	1594.8	1586.6	1586.5	1587.9	1594.2	1591.5	1592.1	1576.6	1568.5	1571.5	1575.2	1568.9	1568.2	1581.6	1601.5	1602.5	1602.5
1960	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1588.7	1568.6	1574.6	1575.4	1576.5	1580.8	1582.9	1588.9	1601.5	1602.5	1602.5
1961	1602.5	1602.5	1602.5	1601.1	1594.3	1590.0	1579.6	1566.9	1586.3	1578.6	1573.0	1567.7	1575.4	1566.4	1579.6	1601.5	1602.5	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1590.5	1594.2	1588.4	1575.8	1568.8	1580.9	1577.4	1578.5	1582.7	1582.9	1586.6	1601.5	1602.5	1602.5
1963	1602.5	1602.5	1602.5	1602.5	1596.2	1591.3	1590.6	1592.1	1588.2	1590.2	1586.5	1582.7	1583.3	1582.9	1586.6	1601.5	1602.5	1602.5
1964	1602.5	1602.5	1602.5	1602.5	1599.4	1598.8	1592.1	1590.6	1587.5	1572.6	1574.7	1576.6	1579.1	1568.3	1576.8	1600.4	1602.5	1602.5
1965	1602.5	1602.5	1602.5	1602.5	1599.8	1598.8	1586.3	1575.7	1582.0	1580.5	1580.4	1581.0	1568.3	1580.6	1584.5	1601.5	1602.5	1602.5
1966	1602.5	1602.5	1602.5	1602.5	1594.1	1588.1	1579.6	1569.5	1573.5	1574.1	1575.2	1579.9	1579.5	1579.7	1588.4	1601.5	1602.5	1602.5
1967	1602.5	1602.5	1602.5	1601.7	1597.5	1596.4	1590.8	1592.1	1579.6	1573.5	1575.0	1577.9	1580.3	1566.7	1579.9	1601.5	1602.5	1602.5
1968	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1588.6	1582.7	1575.4	1573.7	1566.6	1571.3	1559.4	1573.1	1599.4	1602.5	1602.5
1969	1602.5	1602.5	1602.5	1602.5	1600.7	1595.1	1587.8	1577.1	1582.8	1574.2	1573.9	1576.0	1572.6	1572.3	1583.7	1602.5	1602.5	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1597.9	1590.8	1579.6	1564.4	1568.1	1573.8	1576.6	1579.0	1568.2	1553.6	1563.6	1588.5	1602.5	1602.5
1971	1602.5	1602.5	1595.3	1591.6	1589.4	1589.4	1587.7	1572.1	1581.2	1572.0	1570.3	1569.0	1565.6	1572.6	1594.7	1602.5	1602.5	1602.5
1972	1602.5	1602.5	1602.5	1602.5	1596.5	1588.9	1579.6	1563.6	1567.6	1574.2	1572.6	1572.6	1567.0	1560.1	1574.6	1602.5	1602.5	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1600.4	1593.9	1579.6	1570.9	1577.6	1578.7	1563.9	1545.8	1528.9	1514.0	1530.7	1560.4	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1578.4	1579.6	1573.3	1570.6	1566.4	1566.8	1564.6	1555.5	1563.4	1580.2	1599.4	1602.5	1602.5
1975	1602.5	1602.5	1602.5	1602.5	1598.6	1595.1	1591.1	1580.9	1583.0	1581.5	1577.5	1577.4	1561.9	1549.0	1567.1	1589.4	1602.5	1602.5
1976	1602.5	1602.5	1602.5	1602.5	1595.6	1593.3	1592.1	1592.1	1576.3	1560.1	1560.5	1563.5	1569.8	1566.7	1584.4	1601.5	1602.5	1602.5
1977	1602.5	1602.5	1602.5	1602.5	1602.5	1594.9	1591.2	1588.6	1568.7	1545.6	1541.1	1536.8	1528.2	1528.4	1543.5	1554.7	1560.0	1570.5
1978	1562.1	1554.3	1553.5	1550.3	1551.8	1551.0	1555.5	1558.5	1562.2	1565.7	1567.8	1579.5	1571.5	1571.9	1584.3	1601.4	1602.5	1602.5

Analysis of Low Fisheries Flow Scenarios
Plant ROSS -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	61
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	37	8	0	66
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	16
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	39
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	26
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	29	0	44
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157	0	157
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	43
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	42	135
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	15
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	18
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	34
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0	53
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	84	0	94
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0	29
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	59
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	47
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	0	112
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	0	117
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	36
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	37	121
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	41
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0	68
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	47	0	49
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174	0	174
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	48	115
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	34

Analysis of Low Fisheries Flow Scenarios
Plant DIABLO -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	122	220
1934	92	45	0	0	0	79	0	0	0	0	0	0	0	6	54	80	47	0	403
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	24	55
1936	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0	60
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	68	142
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	14	17
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	17
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	69	129
1944	75	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	68	44	174
1947	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	8	60
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	216	76	335
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	8	93
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	211	347
1951	98	24	0	0	0	0	0	3	0	0	0	0	0	0	0	0	51	66	241
1952	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	52
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	19	72
1954	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	112	234
1955	139	58	0	0	0	0	15	0	0	0	0	0	0	0	0	0	98	99	409
1956	55	24	0	0	0	28	24	0	0	0	0	0	0	0	0	64	128	73	394
1957	58	13	0	0	0	37	0	0	0	0	0	0	0	0	0	29	75	0	212
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	35	5	101
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	108	207
1960	43	19	0	0	0	71	0	0	0	0	0	0	0	0	0	0	92	40	264
1961	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166	92	277
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	50	66
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	10	34
1964	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	165	84	250
1965	100	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	27	216
1966	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	26	61
1967	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	210	345
1968	42	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	88	64	217
1969	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	124	8	197
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	39	49
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	83	74	199
1972	19	89	0	0	0	0	0	0	0	0	0	0	0	0	0	23	228	114	473
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	215	326
1975	87	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	48	54	254
1976	100	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	25	94	241
1977	81	57	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	24	100

Analysis of Low Fisheries Flow Scenarios
Plant GORGE -- Date of Refill May 31 -- Target Refill Elevation 1601.5

	Spill (kSFD)																		Annual Spill (kSFD)
	Period Name																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	65
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	127	236
1933	7	0	0	0	0	0	0	0	0	0	0	0	0	12	59	85	51	0	445
1934	108	60	3	0	0	61	4	0	0	0	0	0	0	0	0	0	37	28	65
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	3	94
1936	15	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	78	74	155
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	19	33
1939	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1940	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	21
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	75	140
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126
1944	93	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	74	49	195
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	13	91
1947	32	6	0	0	0	0	0	0	0	0	0	0	0	0	0	53	229	83	365
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	94	11	111
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	222	382
1950	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	72	299
1951	117	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	34	4	76
1952	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	22	89
1953	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	72	121	272
1954	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	490
1955	160	77	13	0	0	0	26	0	0	0	0	0	0	0	0	76	136	79	446
1956	73	42	0	0	0	11	29	0	0	0	0	0	0	0	0	35	83	0	243
1957	77	31	0	0	0	18	0	0	0	0	0	0	0	0	0	72	40	9	121
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	116	223
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	46	302
1960	61	37	0	0	0	52	6	0	0	0	0	0	0	0	0	0	177	100	314
1961	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	58	95
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	13	42
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174	90	264
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	31	264
1965	120	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	31	87
1966	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	223	383
1967	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	70	235
1968	60	0	0	0	0	9	0	0	0	0	0	0	0	0	0	25	134	12	237
1969	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	44	61
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	90	81	219
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	239	121	549
1972	35	113	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	122	226	348
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	59	322
1975	106	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	29	101	285
1976	123	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	205
1977	99	76	29	0	0	0	0	0	0	0	0	0	0	0	0	0	83	30	113
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

BASE CASE - REFILL TO 1602.5 ON JULY 31
1991 SETTLEMENT

Scenario: 1602.5 - July 31 - 1991 Settlement Agreement

Electric Generation (GWh)

	Month												Sub-Total		Total
	7	8	9	10	11	12	1	2	3	4	5	6	Summer	Winter	Annual
1929	263	123	202	171	190	217	333	125	118	101	55	218	760	1,356	2,116
1930	168	151	72	79	110	190	215	240	142	149	130	196	794	1,047	1,841
1931	299	167	86	73	161	183	339	226	246	172	127	233	997	1,314	2,311
1932	296	182	64	93	137	142	353	286	225	157	179	209	1,023	1,301	2,324
1933	124	163	95	139	368	218	372	331	347	198	302	221	1,009	1,871	2,879
1934	217	270	148	255	358	295	360	326	324	315	408	373	1,583	2,065	3,648
1935	305	314	84	82	242	215	345	324	319	279	141	260	1,298	1,611	2,910
1936	280	184	117	117	195	166	331	188	175	132	289	235	1,120	1,289	2,409
1937	107	186	99	123	146	159	336	152	145	169	90	294	845	1,160	2,006
1938	302	320	89	71	239	210	329	272	164	224	298	250	1,392	1,374	2,766
1939	154	224	89	94	121	127	327	275	268	152	153	209	892	1,301	2,193
1940	234	193	101	91	204	211	339	309	216	137	130	204	899	1,470	2,368
1941	130	165	65	53	206	116	334	272	226	231	97	116	739	1,272	2,012
1942	56	77	60	60	206	211	341	272	173	114	72	55	374	1,322	1,696
1943	104	126	117	132	85	213	327	268	221	252	242	212	936	1,364	2,300
1944	339	190	96	116	141	218	332	244	133	95	55	147	825	1,281	2,107
1945	212	152	70	74	117	129	351	246	173	114	89	119	685	1,159	1,844
1946	89	321	87	70	306	140	331	267	248	196	212	305	1,123	1,449	2,572
1947	249	166	202	137	134	216	330	261	222	204	162	216	996	1,503	2,499
1948	259	146	154	141	215	218	337	273	262	178	216	327	1,125	1,599	2,724
1949	289	196	195	181	217	224	333	264	205	194	194	283	1,157	1,619	2,776
1950	237	306	59	85	377	244	373	327	351	261	310	272	1,385	1,817	3,201
1951	357	232	194	172	315	372	338	315	370	336	331	303	1,560	2,076	3,635
1952	222	158	150	152	215	224	334	261	112	94	126	194	793	1,448	2,242
1953	141	173	102	120	118	140	313	266	265	229	243	276	1,062	1,323	2,385
1954	159	191	144	181	267	215	373	322	359	318	311	294	1,274	1,861	3,135
1955	330	319	187	182	362	221	341	274	237	260	139	265	1,313	1,804	3,116
1956	251	208	151	223	375	221	373	273	303	220	266	296	1,240	1,919	3,159
1957	374	201	187	217	241	233	343	273	252	217	134	333	1,259	1,746	3,004
1958	308	222	82	73	87	221	327	263	136	133	195	179	1,036	1,188	2,224
1959	300	203	72	80	274	324	367	334	347	299	321	262	1,384	1,798	3,182
1960	296	180	209	246	356	218	374	270	276	235	172	266	1,149	1,949	3,099
1961	198	180	199	159	198	216	316	257	360	284	157	321	1,139	1,705	2,844
1962	318	232	87	86	205	219	322	266	237	154	124	215	1,043	1,421	2,464
1963	94	167	197	179	196	233	335	262	237	205	262	203	931	1,639	2,570
1964	115	167	146	195	294	214	334	333	350	325	243	275	1,125	1,866	2,990
1965	241	220	194	177	214	218	332	264	211	190	174	271	1,097	1,611	2,708
1966	202	190	157	155	207	219	333	271	161	143	132	254	921	1,503	2,424
1967	160	172	94	175	204	260	335	331	361	259	209	226	1,025	1,758	2,783
1968	347	181	144	217	308	216	357	323	367	354	333	273	1,487	1,931	3,418
1969	260	168	189	184	204	221	329	272	180	135	237	267	1,066	1,579	2,646
1970	218	151	95	162	215	223	332	266	159	117	135	169	791	1,453	2,243
1971	59	235	91	80	91	223	323	312	348	273	301	298	1,167	1,469	2,636
1972	284	237	153	160	212	224	330	258	328	327	307	371	1,527	1,664	3,191
1973	445	278	193	188	164	212	330	245	145	98	57	130	1,009	1,476	2,485
1974	207	198	89	68	100	213	351	328	352	323	315	256	1,299	1,502	2,801
1975	352	280	194	79	132	217	334	273	289	182	157	186	1,157	1,518	2,675
1976	258	168	153	148	348	383	366	331	362	331	320	301	1,377	2,092	3,469
1977	206	309	190	188	75	140	333	270	178	194	91	128	928	1,374	2,302
1978	294	188	66	75	99	77	335	267	177	210	137	171	1,000	1,096	2,096

Plant:	Scenario: 1602.5 - July 31 - 1991 Settlement Agreement																	
GORGE	Outflow (Average CFS)																	
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	5592	4769	2874	2132	3799	3399	3542	3904	6001	2600	2515	2200	2374	2000	1500	1665	4623	4658
1930	4183	2717	3540	2545	1500	1500	2019	3414	3905	5204	2285	3443	2600	3885	3075	2347	4334	3628
1931	5851	5495	2962	3648	1874	1500	2979	3284	6378	4769	4644	5103	2607	4814	3786	2200	5011	5082
1932	5850	5851	3688	3508	1531	1781	2814	2678	6599	6600	6147	3518	3204	4128	3913	3823	3402	6000
1933	3682	2059	3449	3134	1913	2645	7610	4000	6601	6600	6731	6731	2796	5870	6507	6243	5001	4938
1934	4959	4471	6220	4397	3039	6604	6854	5681	6600	6600	6136	6291	6322	6663	8553	12065	10132	6596
1935	5850	5850	5850	5898	1779	1703	4883	4000	6599	6601	5624	5943	5779	4973	2757	3410	5000	6000
1936	5543	5450	3694	3526	2480	2183	3510	3023	6001	3822	3812	3170	2931	3396	5427	6615	4227	6000
1937	3135	1849	4048	3222	2031	2271	2650	2991	6000	3134	2112	3680	4729	2483	2200	2200	6600	6000
1938	5850	5850	5850	5850	1857	1600	4699	4000	6000	5500	3959	2561	5196	4248	5379	6668	4815	6000
1939	4776	2045	3894	4384	1916	1830	2305	2449	6000	5499	5170	5019	3309	3275	3427	3359	2708	6000
1940	5000	4449	3568	3894	2037	1886	3895	4090	6000	6207	4218	4102	2933	2912	2750	3173	2732	5792
1941	3092	2426	3581	2912	1500	1576	3814	2342	6000	5499	3693	4841	4932	4511	2200	2200	2460	2859
1942	1584	1526	2000	1600	1500	1500	4000	4000	6000	5501	2251	4257	2431	2531	1824	1800	1786	1555
1943	2320	2626	3045	2180	2288	2397	1759	4000	6000	5500	4231	4428	4568	6176	5582	4319	3244	6031
1944	6580	8021	4560	2910	1996	2216	2617	3999	5999	5033	3151	2213	2100	2100	1500	1500	3435	3128
1945	3567	4784	3133	2929	1738	1594	2369	2513	6600	5298	3489	3358	2214	2735	3001	1766	2477	3273
1946	2014	2313	5850	5850	1894	1600	5695	2600	6000	5500	4794	4965	4313	4315	5588	4249	6731	6000
1947	5699	4597	3713	3012	3800	2586	2526	4000	6000	5499	4262	4455	4429	4279	3190	4295	2859	6387
1948	5862	4330	2949	2818	3000	3000	4000	4000	6000	5500	5143	4793	4072	3542	6537	3427	6731	9052
1949	5943	5268	3971	3899	3800	3400	4000	4000	6000	5500	4494	3878	4305	4463	3591	5428	5879	6000
1950	5000	4727	5850	5612	1500	1788	8210	4431	6600	6600	6731	6731	6731	4307	6654	6731	6731	6000
1951	8282	8570	4967	4410	3800	3401	6082	7132	5999	6600	6731	6731	6731	6731	6731	6731	6731	6000
1952	5001	4255	3669	2712	3001	3001	3999	4000	6000	5501	2302	2200	2283	2193	3000	3000	3948	4601
1953	4146	2367	3726	3293	2091	2237	2174	2535	6000	5500	5264	4563	4791	4545	5369	4817	6024	5374
1954	5000	2421	4384	3329	3000	3515	5041	4000	6600	6600	6731	6731	6731	6492	6731	6731	6731	6000
1955	5850	9691	6853	5779	3801	3400	7367	4000	6000	5500	4253	4533	5153	5500	3401	2926	5906	6000
1956	5001	5645	5086	3263	3000	5004	7713	4001	6600	5500	6520	5237	2994	6731	6731	5178	6731	6000
1957	10160	7901	4134	3931	3800	4462	4509	4387	6000	5500	4578	4834	4626	4339	2802	3896	8142	6105
1958	5851	5851	5577	2939	1842	1500	1727	4000	6000	5500	2427	2830	2169	3355	3000	5835	2310	6000
1959	5851	5850	5730	2401	1692	1846	5237	6139	6600	6601	6731	6216	5898	6731	6551	6579	5722	6000
1960	5851	6558	4083	3168	4329	6054	6934	4000	6600	5500	4912	5487	4107	5525	3130	4188	5667	6000
1961	4999	3684	4035	3119	3800	3116	3835	4001	6000	5501	6731	6731	5498	6063	4028	3297	6731	8548
1962	7315	5850	5850	3444	1850	1854	3833	4000	6000	5501	4241	4417	3298	3257	2402	2999	3635	5990
1963	1661	3079	4113	2864	3800	3343	4000	4421	6000	5500	4134	4500	4202	3712	3741	6574	3149	5597
1964	2712	2472	3816	2849	3000	3927	5574	4000	6000	6600	6168	6731	6629	6731	4401	6093	6304	6000
1965	5664	4889	5029	3803	3800	3400	4000	4000	6000	5500	4547	3503	4830	3110	3799	3659	5383	6000
1966	5000	3580	4552	3268	3000	3000	4000	4000	6000	5500	3103	3256	2300	3869	3000	2999	5000	5682
1967	4084	3014	3977	2975	2021	3406	3811	5017	6000	6600	6731	6731	6310	4281	5489	3932	5122	6000
1968	9669	5995	4273	3207	3000	4948	5770	4001	6600	6600	6731	6731	6731	6731	6731	6513	6029	6000
1969	5850	4954	3825	2964	3800	3400	4000	4000	6000	5500	3708	3319	2398	3544	5959	4556	4716	7499
1970	5120	3594	2485	3392	2199	3000	4001	4000	6000	5500	4068	2200	2345	2587	3000	3000	5001	3192
1971	1836	1622	5371	3542	1957	1548	1848	4000	6001	6600	6365	6731	6731	4790	6308	6731	6731	6000
1972	5000	7996	6431	3471	3000	3000	4000	4000	6000	5500	6628	6731	6731	6731	6731	6731	6731	12343
1973	15033	10064	6930	4533	3800	3400	3060	4000	6000	4997	3484	2213	2109	2100	1500	1818	2730	3450
1974	4427	4123	4458	3422	1928	1500	2071	4000	6600	6600	6731	6731	6731	6731	6731	6731	6268	6000
1975	6100	11016	7371	4371	3800	1500	2616	4000	6000	5500	5809	5228	4661	3016	3311	3902	2628	6000
1976	5850	5492	3497	3301	3000	3000	6620	7769	6601	6600	6731	6731	6731	6731	6731	6731	6731	6000
1977	5000	4398	7950	5196	3800	3400	1543	2600	6000	5500	4500	2300	4000	4001	2000	2000	3560	2626
1978	5545	5833	4211	3873	1500	1500	2276	1900	6000	5500	3586	3609	4304	4281	3003	2953	5000	3167

Scenario: 1602.5 - July 31 - 1991 Settlement Agreement

Ending Ross Elevation

	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2
1929	1602.5	1602.5	1602.5	1602.5	1591.5	1590.3	1579.6	1563.6	1526.7	1511.3	1503.5	1500.3	1494.4	1499.6	1521.2	1554.5	1572.8	1581.1
1930	1583.9	1586.5	1585.3	1584.6	1584.3	1582.4	1574.5	1558.4	1535.9	1520.9	1518.5	1517.2	1532.8	1547.2	1557.5	1572.1	1584.3	1593.1
1931	1594.4	1590.1	1591.4	1587.4	1588.2	1588.5	1579.4	1565.1	1537.5	1520.5	1510.9	1501.9	1503.8	1501.3	1533.2	1554.0	1566.5	1569.7
1932	1566.4	1559.5	1555.4	1550.5	1556.2	1552.8	1550.7	1543.7	1503.4	1481.5	1475.7	1475.7	1485.7	1498.8	1529.0	1546.3	1572.4	1587.7
1933	1595.2	1602.5	1602.5	1602.5	1601.5	1598.8	1592.1	1590.5	1563.8	1528.8	1506.7	1476.8	1475.4	1475.0	1475.0	1488.7	1529.8	1564.0
1934	1587.5	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1592.1	1583.0	1567.7	1564.6	1565.6	1573.0	1597.0	1602.5	1602.5	1602.5	1602.0
1935	1600.4	1598.7	1592.1	1584.6	1585.6	1587.1	1592.1	1587.7	1581.9	1577.2	1567.7	1555.5	1542.1	1536.3	1547.3	1568.3	1588.3	1595.3
1936	1599.1	1602.5	1602.5	1600.9	1602.5	1598.8	1584.9	1574.2	1542.9	1520.9	1511.8	1503.5	1500.7	1533.2	1552.6	1572.1	1591.4	1593.9
1937	1597.8	1602.5	1599.9	1597.3	1595.8	1589.9	1579.1	1570.1	1534.6	1515.6	1513.2	1504.6	1492.7	1497.2	1519.1	1546.9	1573.7	1592.9
1938	1598.9	1596.5	1589.2	1579.0	1579.1	1583.8	1577.9	1573.7	1551.6	1522.9	1516.1	1515.0	1503.0	1516.4	1523.2	1551.6	1573.6	1589.3
1939	1594.1	1602.5	1599.0	1592.8	1593.3	1591.5	1586.1	1584.3	1567.1	1541.3	1525.6	1517.4	1521.1	1534.5	1552.3	1576.1	1589.5	1594.8
1940	1600.0	1602.5	1602.5	1598.6	1596.5	1596.5	1587.6	1592.1	1570.3	1545.6	1539.8	1537.5	1540.6	1547.6	1561.8	1579.5	1590.2	1587.8
1941	1589.2	1590.5	1586.9	1584.6	1586.4	1598.8	1587.3	1587.7	1563.1	1540.4	1533.9	1523.0	1518.8	1518.7	1529.8	1540.3	1550.4	1553.6
1942	1560.1	1565.0	1566.1	1567.9	1573.0	1587.7	1584.8	1587.5	1560.3	1533.0	1528.8	1515.0	1517.5	1524.3	1532.4	1557.8	1578.1	1590.0
1943	1599.2	1602.5	1602.5	1602.5	1597.9	1590.1	1589.0	1580.2	1554.9	1530.1	1520.6	1512.1	1518.5	1527.5	1523.9	1546.0	1571.7	1587.6
1944	1602.5	1602.5	1602.5	1602.5	1602.5	1598.8	1590.7	1578.1	1547.8	1520.9	1513.2	1509.1	1510.2	1513.9	1530.7	1550.4	1563.8	1572.6
1945	1572.5	1568.1	1566.2	1562.9	1566.9	1568.5	1564.4	1561.6	1533.5	1514.4	1505.4	1496.9	1493.4	1492.5	1518.6	1550.9	1572.5	1587.0
1946	1599.2	1602.5	1594.7	1583.8	1584.1	1591.3	1576.5	1572.2	1544.6	1516.1	1505.3	1488.9	1479.8	1491.9	1523.1	1565.8	1580.3	1591.1
1947	1597.6	1602.5	1602.5	1602.5	1592.3	1586.7	1579.6	1571.1	1543.3	1525.6	1516.7	1517.7	1515.6	1528.4	1557.8	1580.9	1599.4	1602.5
1948	1602.5	1602.5	1602.5	1600.6	1594.0	1598.0	1589.3	1582.2	1558.7	1533.1	1517.4	1501.9	1488.2	1497.6	1488.0	1549.3	1594.1	1602.5
1949	1602.5	1602.5	1602.5	1602.5	1596.5	1593.2	1581.8	1567.3	1533.9	1500.8	1486.3	1478.5	1478.0	1496.2	1542.2	1571.9	1591.5	1595.5
1950	1600.8	1602.5	1598.1	1589.4	1595.7	1598.8	1592.1	1592.1	1564.7	1535.1	1521.6	1500.7	1476.4	1475.0	1475.0	1500.4	1541.0	1588.0
1951	1602.5	1602.5	1602.5	1602.5	1594.8	1595.7	1592.1	1592.1	1575.1	1568.5	1553.4	1536.6	1531.4	1529.1	1542.2	1561.6	1573.9	1589.1
1952	1598.7	1602.5	1602.5	1602.5	1598.6	1594.6	1583.1	1568.5	1533.4	1503.9	1497.9	1492.5	1495.8	1518.1	1535.5	1568.2	1583.7	1590.1
1953	1596.8	1602.5	1602.5	1599.7	1597.6	1591.7	1584.1	1574.6	1563.0	1550.9	1538.5	1527.6	1515.0	1518.3	1532.1	1553.3	1568.6	1577.0
1954	1593.0	1602.5	1602.5	1602.5	1600.2	1598.8	1592.1	1589.7	1565.0	1544.8	1530.4	1509.5	1488.4	1475.0	1484.1	1523.9	1541.7	1569.6
1955	1599.5	1602.5	1602.5	1602.5	1602.0	1597.6	1592.1	1588.0	1563.4	1539.1	1527.4	1512.4	1503.3	1484.9	1487.3	1516.8	1554.7	1578.5
1956	1594.1	1602.5	1602.5	1602.5	1599.1	1598.8	1592.1	1584.0	1552.7	1523.1	1498.9	1475.7	1475.4	1488.7	1497.1	1557.3	1583.9	1600.0
1957	1602.5	1602.5	1602.5	1602.5	1598.3	1598.8	1592.1	1592.1	1566.7	1544.4	1536.9	1525.7	1519.5	1520.8	1565.7	1591.7	1602.5	1602.5
1958	1599.7	1594.4	1587.2	1585.3	1586.3	1586.4	1584.8	1571.3	1547.0	1527.3	1526.4	1522.2	1522.7	1523.4	1541.8	1578.4	1597.4	1601.0
1959	1598.0	1593.2	1585.3	1586.5	1590.0	1598.8	1592.1	1592.1	1576.4	1549.1	1532.9	1515.7	1509.9	1508.3	1517.1	1533.7	1562.1	1586.4
1960	1597.7	1602.5	1602.5	1602.5	1602.5	1598.8	1592.1	1589.8	1561.2	1541.6	1528.5	1519.8	1530.3	1523.0	1544.0	1551.8	1576.8	1587.1
1961	1596.3	1602.5	1602.5	1601.1	1591.7	1586.7	1579.6	1568.1	1557.4	1550.6	1536.8	1521.1	1514.3	1503.3	1510.1	1553.9	1589.6	1602.5
1962	1602.5	1601.0	1595.5	1595.1	1595.6	1598.8	1588.4	1577.0	1563.9	1552.0	1542.4	1530.9	1529.9	1537.6	1542.0	1558.4	1572.4	1585.3
1963	1596.4	1602.5	1602.5	1602.5	1593.5	1586.7	1588.7	1592.1	1574.1	1573.4	1569.6	1562.2	1556.7	1553.6	1551.7	1567.1	1584.0	1589.4
1964	1597.4	1602.5	1602.5	1602.5	1600.9	1598.8	1592.1	1591.7	1578.4	1551.5	1536.4	1515.7	1500.4	1478.1	1475.0	1499.4	1549.8	1570.7
1965	1593.7	1602.5	1602.5	1602.5	1597.1	1595.9	1586.2	1576.8	1551.9	1538.3	1532.9	1528.4	1517.7	1531.4	1540.4	1563.0	1583.6	1591.1
1966	1598.4	1602.5	1602.5	1602.5	1595.7	1591.4	1585.4	1577.1	1549.4	1519.5	1512.5	1509.3	1525.6	1524.6	1549.1	1565.3	1577.5	1585.9
1967	1595.4	1602.5	1602.5	1601.7	1602.5	1598.8	1590.8	1592.1	1573.6	1549.5	1531.5	1511.4	1488.7	1475.0	1475.0	1518.1	1557.9	1601.7
1968	1602.5	1602.5	1602.5	1602.5	1599.9	1598.8	1592.1	1589.7	1583.8	1575.3	1573.3	1562.2	1548.8	1534.7	1530.7	1546.7	1572.8	1587.8
1969	1600.2	1602.5	1602.5	1602.5	1598.0	1590.2	1585.6	1575.9	1550.4	1520.2	1508.7	1503.4	1511.4	1519.5	1537.7	1572.8	1602.5	1602.5
1970	1602.5	1602.5	1602.5	1599.2	1602.5	1597.3	1587.3	1574.1	1545.7	1521.9	1513.2	1511.4	1513.8	1510.9	1515.7	1543.5	1569.3	1587.5
1971	1596.2	1602.3	1595.3	1591.6	1591.3	1589.4	1587.7	1573.4	1551.2	1540.5	1524.7	1503.0	1479.4	1475.0	1518.0	1541.6	1561.2	1579.3
1972	1588.2	1602.5	1602.5	1602.5	1598.1	1592.2	1582.4	1567.0	1537.9	1516.5	1514.2	1513.6	1505.0	1485.2	1500.3	1549.7	1596.1	1602.5
1973	1602.5	1602.5	1602.5	1602.5	1597.7	1589.0	1579.6	1572.2	1546.8	1520.9	1513.2	1509.3	1508.1	1510.6	1525.6	1556.2	1569.6	1581.1
1974	1582.2	1583.3	1581.1	1576.2	1574.8	1577.1	1579.6	1574.5	1566.3	1539.8	1519.9	1506.8	1488.3	1475.7	1482.5	1491.5	1534.9	1584.1
1975	1602.5	1602.5	1602.5	1602.5	1595.9	1594.2	1591.1	1582.0	1558.4	1531.9	1515.7	1496.5	1477.2	1475.0	1497.8	1521.9	1566.0	1579.6
1976	1601.8	1602.5	1602.5	1602.5	1597.2	1596.5	1592.1	1592.1	1576.3	1554.6	1537.3	1517.4	1503.3	1484.8	1511.7	1529.6	1538.1	1562.6
1977	1584.5	1602.5	1602.5	1602.5	1601.0	1591.1	1591.2	1586.2	1561.4	1539.8	1530.3	1526.7	1521.4	1526.0	1538.0	1545.9	1560.0	1569.7
1978	1562.1	1554.3	1553.5	1550.3	1551.4	1548.7	1555.5	1575.2	1546.7	1520.2	1512.4	1517.6	1515.7	1513.7	1525.0	1542.1	1566.8	1582.7

Plant: ROSS	Scenario: 1602.5 - July 31 - 1991 Settlement Agreement																		
	Spill (kSFD)																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	ANNUAL
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	8	0	45
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant: DIABLO

Scenario: 1602.5 - July 31 - 1991 Settlement Agreement

Spill (kSFD)

	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	ANNUAL
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	18	0	0	1	2	1	0	0	0	0	0	0	22
1934	0	0	0	0	0	87	0	0	0	0	0	0	0	0	23	80	47	0	236
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	33	0	0	0	0	1	1	0	0	0	0	0	35
1951	15	24	0	0	0	0	0	3	0	0	2	2	0	0	0	0	0	0	46
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
1955	0	40	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	48
1956	0	0	0	0	0	37	24	0	0	0	0	0	0	0	0	0	0	0	61
1957	43	13	0	0	0	22	0	0	0	0	0	0	0	0	0	0	14	0	93
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
1960	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	71
1961	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	19	20
1962	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	10	0	0	0	0	0	2	0	0	0	0	0	0	12
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
1968	37	0	0	0	0	32	0	0	0	0	0	0	1	0	0	0	0	0	71
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
1972	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	86
1973	114	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161
1974	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
1975	0	60	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
1976	0	0	0	0	0	0	0	21	0	0	2	1	0	0	0	0	0	0	24
1977	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Plant: GORGE	Scenario: 1602.5 - July 31 - 1991 Settlement Agreement																		
	Spill (kSFD)																		
	JY1	JY2	AU1	AU2	SEP	OCT	NOV	DEC	JAN	FEB	MR1	MR2	AP1	AP2	MY1	MY2	JU1	JU2	ANNUAL
1929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1933	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
1934	0	0	3	0	0	69	4	0	0	0	0	0	0	0	27	85	51	0	240
1935	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1937	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1939	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1941	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1942	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	9	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
1945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35
1949	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	44
1951	34	41	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	88
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	59	13	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	91
1956	0	0	0	0	0	19	29	0	0	0	0	0	0	0	0	0	0	0	49
1957	63	31	0	0	0	3	0	0	0	0	0	0	0	0	0	0	21	0	117
1958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	9	0	0	0	52	6	0	0	0	0	0	0	0	0	0	0	0	67
1961	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	27
1962	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	55	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	73
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	32	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	123
1973	136	65	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	2	80	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
1976	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
1977	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix D

POWER GENERATION COST PROJECTIONS

Present Worth of Power Generation Benefits of Early Refill Alternatives at 3.00% Discount Rate (1990-2008).

Target Elevation in Feet	Target Refill Date	Summer (1990 $)	Winter (1990 $)	Total (1990 $)
Interim Agreement Fisheries Flow Scenarios				
1601.5	May 31	71,835,761	-164,922,955	-93,087,194
1592.0	May 31	69,195,335	-135,358,982	-66,163,647
1601.5	June 15	36,037,428	-80,182,753	-44,145,325
1592.0	June 15	23,068,539	-49,468,516	-26,399,978
1580.0	June 15	9,600,372	-24,028,330	-14,427,958
1601.5	June 30	7,266,834	-24,492,121	-17,225,287
1592.0	June 30	3,302,823	-11,166,202	-7,863,379
License Minimum Fisheries Flow Scenarios				
1601.5	May 31	92,490,546	-193,674,740	-101,184,194
1601.5	June 30	10,072,341	-27,344,024	-17,271,684
1592.0	June 30	5,699,525	-13,629,904	-7,930,379
1602.5	July 31	1,949,945	-2,009,262	-59,317

Negative numbers indicate the costs of purchasing replacement power in the winter net of the additional sales of summer power at the prevailing price. Annual figures are expressed in real 1990 dollar terms. Present values are calculated using a 3.00 percent discount rate.

Present Worth of Power Generation Benefits of Early Refill Alternatives at 7.00% Discount Rate (1990-2008).

Target Elevation in Feet	Target Refill Date	Summer (1990 $)	Winter (1990 $)	Total (1990 $)
Interim Agreement Fisheries Flow Scenarios				
1601.5 -	May 31	52,134,725	-117,088,727	-64,954,002
1592.0 -	May 31	50,218,439	-96,099,484	-45,881,045
1601.5 -	June 15	26,154,124	-56,926,560	-30,772,436
1592.0 -	June 15	16,741,967	-35,120,676	-18,378,709
1580.0 -	June 15	6,967,460	-17,059,157	-10,091,697
1601.5 -	June 30	5,273,897	-17,388,430	-12,114,533
1592.0 -	June 30	2,397,020	-7,927,558	-5,530,538
License Minimum Fisheries Flow Scenarios				
1601.5 -	May 31	67,124,913	-137,501,349	-70,376,436
1601.5 -	June 30	7,309,990	-19,413,168	-12,103,177
1592.0 -	June 30	4,136,424	-9,676,689	-5,540,265
1602.5 -	July 31	1,415,170	-1,426,496	-11,326

Negative numbers indicate the costs of purchasing replacement power in the winter net of the additional sales of summer power at the prevailing price. Annual figures are expressed in real 1990 dollar terms. Present values are calculated using a 7.00 percent discount rate.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1601.5 - May 31

Year	Summer	Winter	Annual
1990	3,364,177	-6,615,283	-3,251,106
1991	3,768,708	-7,436,776	-3,668,068
1992	3,969,300	-7,860,016	-3,890,716
1993	3,610,415	-8,338,342	-4,727,927
1994	3,239,374	-9,123,044	-5,883,671
1995	5,175,839	-9,797,994	-4,622,155
1996	5,308,640	-10,151,238	-4,842,598
1997	4,352,780	-10,692,875	-6,340,095
1998	5,565,563	-11,134,063	-5,568,499
1999	5,899,236	-11,550,643	-5,651,407
2000	6,118,861	-11,469,491	-5,350,630
2001	4,994,357	-11,983,025	-6,988,668
2002	6,317,333	-14,766,104	-8,448,772
2003	5,413,252	-12,317,736	-6,904,483
2004	6,937,893	-13,082,777	-6,144,884
2005	3,777,803	-13,176,176	-9,398,373
2006	7,068,308	-23,769,433	-16,701,125
2007	4,338,661	-14,047,923	-9,709,262
2008	5,456,403	-14,128,422	-8,672,018

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1592.0 - May 31

Year	Summer	Winter	Annual
1990	3,240,522	-5,429,432	-2,188,910
1991	3,630,184	-6,103,665	-2,473,481
1992	3,823,403	-6,451,035	-2,627,633
1993	3,477,709	-6,843,616	-3,365,908
1994	3,120,306	-7,487,654	-4,367,348
1995	4,985,594	-8,041,613	-3,056,019
1996	5,113,513	-8,331,534	-3,218,021
1997	4,192,788	-8,776,078	-4,583,290
1998	5,360,993	-9,138,178	-3,777,185
1999	5,682,401	-9,480,083	-3,797,682
2000	5,893,954	-9,413,478	-3,519,525
2001	4,810,782	-9,834,956	-5,024,174
2002	6,085,130	-12,119,143	-6,034,013
2003	5,214,280	-10,109,667	-4,895,387
2004	6,682,880	-10,737,567	-4,054,687
2005	3,638,944	-10,814,224	-7,175,280
2006	6,808,502	-19,508,541	-12,700,039
2007	4,179,187	-11,529,702	-7,350,515
2008	5,255,845	-11,595,771	-6,339,925

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1601.5 - June 15

Year	Summer	Winter	Annual
1990	1,687,687	-3,216,239	-1,528,551
1991	1,890,626	-3,615,635	-1,725,009
1992	1,991,256	-3,821,407	-1,830,151
1993	1,811,216	-4,053,961	-2,242,745
1994	1,625,078	-4,435,470	-2,810,392
1995	2,596,533	-4,763,619	-2,167,086
1996	2,663,154	-4,935,360	-2,272,206
1997	2,183,634	-5,198,695	-3,015,061
1998	2,792,044	-5,413,193	-2,621,149
1999	2,959,435	-5,615,727	-2,656,292
2000	3,069,613	-5,576,273	-2,506,659
2001	2,505,490	-5,825,944	-3,320,454
2002	3,169,180	-7,179,030	-4,009,851
2003	2,715,635	-5,988,675	-3,273,040
2004	3,480,492	-6,360,625	-2,880,133
2005	1,895,188	-6,406,034	-4,510,846
2006	3,545,917	-11,556,297	-8,010,380
2007	2,176,551	-6,829,863	-4,653,312
2008	2,737,282	-6,869,000	-4,131,718

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1592.0 - June 15

Year	Summer	Winter	Annual
1990	1,080,335	-1,984,249	-903,915
1991	1,210,241	-2,230,655	-1,020,414
1992	1,274,657	-2,357,606	-1,082,949
1993	1,159,408	-2,501,079	-1,341,671
1994	1,040,257	-2,736,450	-1,696,194
1995	1,662,112	-2,938,901	-1,276,789
1996	1,704,758	-3,044,856	-1,340,099
1997	1,397,804	-3,207,320	-1,809,516
1998	1,787,263	-3,339,654	-1,552,390
1999	1,894,415	-3,464,607	-1,570,192
2000	1,964,943	-3,440,265	-1,475,322
2001	1,603,832	-3,594,299	-1,990,467
2002	2,028,678	-4,429,082	-2,400,404
2003	1,738,352	-3,694,696	-1,956,344
2004	2,227,958	-3,924,169	-1,696,211
2005	1,213,162	-3,952,184	-2,739,022
2006	2,269,838	-7,129,624	-4,859,786
2007	1,393,269	-4,213,664	-2,820,395
2008	1,752,209	-4,237,809	-2,485,601

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1580.0 - June 15

Year	Summer	Winter	Annual
1990	449,600	-963,809	-514,209
1991	503,663	-1,083,496	-579,833
1992	530,471	-1,145,159	-614,689
1993	482,508	-1,214,849	-732,341
1994	432,921	-1,329,175	-896,255
1995	691,717	-1,427,512	-735,795
1996	709,464	-1,478,977	-769,513
1997	581,720	-1,557,891	-976,171
1998	743,801	-1,622,169	-878,369
1999	788,394	-1,682,863	-894,469
2000	817,745	-1,671,039	-853,294
2001	667,463	-1,745,858	-1,078,395
2002	844,270	-2,151,337	-1,307,067
2003	723,445	-1,794,624	-1,071,178
2004	927,203	-1,906,086	-978,882
2005	504,878	-1,919,693	-1,414,815
2006	944,632	-3,463,070	-2,518,438
2007	579,833	-2,046,702	-1,466,869
2008	729,212	-2,058,430	-1,329,218

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1601.5 - June 30

Year	Summer	Winter	Annual
1990	340,317	-982,412	-642,095
1991	381,239	-1,104,409	-723,170
1992	401,530	-1,167,263	-765,733
1993	365,226	-1,238,297	-873,072
1994	327,692	-1,354,831	-1,027,139
1995	523,583	-1,455,065	-931,483
1996	537,017	-1,507,524	-970,508
1997	440,323	-1,587,961	-1,147,638
1998	563,007	-1,653,480	-1,090,473
1999	596,761	-1,715,345	-1,118,584
2000	618,978	-1,703,293	-1,084,315
2001	505,224	-1,779,556	-1,274,332
2002	639,055	-2,192,862	-1,553,807
2003	547,599	-1,829,263	-1,281,664
2004	701,830	-1,942,877	-1,241,046
2005	382,159	-1,956,747	-1,574,588
2006	715,023	-3,529,914	-2,814,891
2007	438,895	-2,086,207	-1,647,312
2008	551,964	-2,098,162	-1,546,197

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

Interim Agreement Fisheries Flow Scenario: 1592.0 - June 30

Year	Summer	Winter	Annual
1990	154,676	-447,891	-293,215
1991	173,275	-503,511	-330,236
1992	182,498	-532,167	-349,669
1993	165,998	-564,552	-398,555
1994	148,938	-617,681	-468,743
1995	237,972	-663,379	-425,407
1996	244,078	-687,295	-443,218
1997	200,130	-723,967	-523,838
1998	255,890	-753,838	-497,948
1999	271,232	-782,043	-510,811
2000	281,329	-776,548	-495,219
2001	229,628	-811,317	-581,690
2002	290,455	-999,747	-709,293
2003	248,887	-833,979	-585,092
2004	318,986	-885,777	-566,790
2005	173,694	-892,100	-718,407
2006	324,983	-1,609,323	-1,284,340
2007	199,480	-951,123	-751,642
2008	250,871	-956,573	-705,701

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

License Minimum Fisheries Flow Scenario: 1601.5 - May 31

Year	Summer	Winter	Annual
1990	4,331,472	-7,768,556	-3,437,084
1991	4,852,317	-8,733,264	-3,880,947
1992	5,110,584	-9,230,289	-4,119,705
1993	4,648,509	-9,792,004	-5,143,494
1994	4,170,784	-10,713,507	-6,542,723
1995	6,664,037	-11,506,124	-4,842,087
1996	6,835,022	-11,920,951	-5,085,929
1997	5,604,326	-12,557,014	-6,952,688
1998	7,165,818	-13,075,116	-5,909,297
1999	7,595,431	-13,564,321	-5,968,890
2000	7,878,204	-13,469,021	-5,590,816
2001	6,430,374	-14,072,081	-7,641,707
2002	8,133,742	-17,340,348	-9,206,606
2003	6,969,713	-14,465,144	-7,495,430
2004	8,932,730	-15,363,558	-6,430,828
2005	4,864,026	-15,473,240	-10,609,213
2006	9,100,644	-27,913,269	-18,812,625
2007	5,586,147	-16,496,963	-10,910,816
2008	7,025,271	-16,591,495	-9,566,224

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

License Minimum Fisheries Flow Scenario: 1601.5 - June 30

Year	Summer	Winter	Annual
1990	471,703	-1,096,806	-625,103
1991	528,424	-1,233,008	-704,585
1992	556,549	-1,303,181	-746,632
1993	506,229	-1,382,487	-876,258
1994	454,204	-1,512,590	-1,058,386
1995	725,722	-1,624,495	-898,773
1996	744,343	-1,683,063	-938,720
1997	610,318	-1,772,866	-1,162,547
1998	780,367	-1,846,014	-1,065,647
1999	827,152	-1,915,083	-1,087,930
2000	857,947	-1,901,628	-1,043,681
2001	700,276	-1,986,771	-1,286,495
2002	885,775	-2,448,202	-1,562,427
2003	759,011	-2,042,265	-1,283,255
2004	972,786	-2,169,108	-1,196,322
2005	529,699	-2,184,594	-1,654,895
2006	991,072	-3,940,943	-2,949,871
2007	608,339	-2,329,128	-1,720,790
2008	765,061	-2,342,475	-1,577,414

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

License Minimum Fisheries Flow Scenario: 1592.0 - June 30

Year	Summer	Winter	Annual
1990	266,917	-546,714	-279,797
1991	299,013	-614,605	-315,592
1992	314,928	-649,584	-334,655
1993	286,454	-689,115	-402,660
1994	257,015	-753,966	-496,950
1995	410,657	-809,746	-399,090
1996	421,193	-838,940	-417,747
1997	345,354	-883,703	-538,349
1998	441,578	-920,164	-478,587
1999	468,052	-954,592	-486,541
2000	485,477	-947,885	-462,409
2001	396,258	-990,326	-594,068
2002	501,224	-1,220,331	-719,107
2003	429,493	-1,017,988	-588,495
2004	550,460	-1,081,214	-530,754
2005	299,735	-1,088,933	-789,198
2006	560,807	-1,964,403	-1,403,596
2007	344,234	-1,160,978	-816,744
2008	432,917	-1,167,630	-734,713

Negative numbers indicate the costs of purchasing replacement power. Annual figures are expressed in real 1990 dollar terms.

Power Generation Benefits of Early Refill

License Minimum Fisheries Flow Scenario: 1602.5 - July 31

Year	Summer	Winter	Annual
1990	91,319	-80,594	10,725
1991	102,300	-90,602	11,697
1992	107,745	-95,759	11,986
1993	98,003	-101,586	-3,583
1994	87,931	-111,146	-23,215
1995	140,495	-119,369	21,126
1996	144,100	-123,673	20,427
1997	118,154	-130,272	-12,118
1998	151,074	-135,647	15,428
1999	160,132	-140,722	19,410
2000	166,093	-139,733	26,360
2001	135,569	-145,990	-10,420
2002	171,481	-179,896	-8,415
2003	146,940	-150,067	-3,127
2004	188,326	-159,388	28,938
2005	102,547	-160,526	-57,979
2006	191,866	-289,584	-97,718
2007	117,771	-171,146	-53,376
2008	148,111	-172,127	-24,016

Negative numbers indicate the costs of purchasing replacement power.
Annual figures are expressed in real 1990 dollar terms.