

Ayyali Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	GG (M3/SD)	GOUT (M3/SD)	P (MW)	E (GMW)	T (H)	ETG	QCR (M3/S)	GUP (M3/S)	LOSS (M)	SUII (M)
289	1964	10	31	926.2	1400.1	427.7(13.80)	515.2(16.62)	0.0	123.27	22.93	6.0	0.899	67.00	66.48	11.00	926.70
290		11	30	925.2	1312.9	412.7(13.76)	498.6(16.62)	0.0	124.07	22.33	6.0	0.899	66.98	66.48	11.00	925.67
291		12	31	924.2	1224.1	426.4(13.75)	515.2(16.62)	0.0	124.72	23.20	6.0	0.899	66.63	66.48	11.00	924.66
292		1	31	923.0	1122.1	413.3(13.33)	515.2(16.62)	0.0	124.57	23.17	6.0	0.899	66.71	66.48	11.00	923.57
293		2	28	921.9	1028.9	372.1(13.29)	465.4(16.62)	0.0	123.90	20.81	6.0	0.899	66.97	66.48	11.00	922.46
294		3	31	921.5	993.3	480.3(15.49)	415.4(16.62)	0.0	123.38	20.95	6.0	0.899	66.85	66.48	11.00	921.72
295		4	30	923.7	1180.3	690.5(23.02)	498.6(16.62)	0.0	122.99	22.14	6.0	0.898	66.76	66.48	11.00	922.59
296		5	31	924.7	1271.2	1773.5(57.21)	1674.0(54.00)	0.0	125.00	40.30	19.3	0.894	67.00	67.00	11.00	924.17
297		6	30	929.9	1726.0	1366.8(45.56)	900.0(30.00)	0.0	125.00	40.30	10.7	0.895	67.00	67.00	11.00	927.29
298		7	31	929.5	1696.0	606.7(19.57)	620.0(20.00)	0.0	125.00	27.76	7.2	0.897	67.00	67.00	11.00	929.71
299		8	31	928.5	1606.5	442.0(14.26)	515.2(16.62)	0.0	122.24	22.74	6.0	0.897	67.00	66.48	11.00	929.03
300		9	30	927.4	1504.4	408.7(13.62)	498.6(16.62)	0.0	122.86	22.12	6.0	0.898	67.00	66.48	11.00	927.94
						651.7(21.39)	644.3(21.43)	0.0	123.92	28.78		0.898	2035.	2026.	11.00	925.46
301	1965	10	31	926.8	1451.7	468.6(15.12)	515.2(16.62)	0.0	123.47	22.97	6.0	0.899	67.00	66.48	11.00	927.05
302		11	30	925.9	1379.4	427.5(14.25)	498.6(16.62)	0.0	123.87	22.30	6.0	0.899	67.00	66.48	11.00	926.34
303		12	31	925.0	1301.4	437.3(14.11)	515.2(16.62)	0.0	124.35	23.13	6.0	0.899	66.83	66.48	11.00	925.48
304		1	31	924.1	1223.2	437.0(14.10)	515.2(16.62)	0.0	124.76	23.21	6.0	0.899	66.61	66.48	11.00	924.59
305		2	28	923.4	1153.2	397.3(14.19)	465.4(16.62)	0.0	124.95	20.95	6.0	0.899	66.65	66.48	11.00	923.76
306		3	31	922.6	1092.1	452.8(14.61)	515.2(16.62)	0.0	124.24	23.11	6.0	0.899	66.88	66.48	11.00	923.01
307		4	30	929.9	1733.0	1655.9(55.20)	1020.0(34.00)	0.0	125.00	45.98	12.3	0.899	66.55	66.55	11.00	926.25
308		5	31	928.4	1597.1	1960.7(63.25)	2077.0(67.00)	0.0	125.00	93.00	24.0	0.899	67.00	67.00	11.00	929.13
309		6	30	929.9	1739.4	865.1(28.84)	780.0(24.00)	0.0	125.00	52.24	8.6	0.897	67.00	67.00	11.00	929.17
310		7	31	928.8	1628.7	431.2(13.91)	515.2(16.62)	0.0	121.98	22.69	6.0	0.897	67.00	66.48	11.00	929.35
311		8	31	927.4	1504.5	407.0(13.13)	515.2(16.62)	0.0	121.76	22.65	6.0	0.897	67.00	66.48	11.00	928.07
312		9	30	926.1	1397.2	403.3(13.44)	498.6(16.62)	0.0	122.06	21.97	6.0	0.897	67.00	66.48	11.00	926.74
						695.3(22.84)	697.6(22.88)	0.0	123.85	31.18		0.899	2034.	2025.	11.00	926.58
313	1966	10	31	925.1	1304.7	428.7(13.83)	515.2(16.62)	0.0	122.81	22.84	6.0	0.898	67.00	66.48	11.00	925.60
314		11	30	924.1	1215.3	410.4(13.68)	498.6(16.62)	0.0	123.90	22.30	6.0	0.899	67.00	66.48	11.00	924.57
315		12	31	922.9	1115.7	415.6(13.41)	515.2(16.62)	0.0	124.52	23.16	6.0	0.899	66.73	66.48	11.00	923.49
316		1	31	921.7	1013.1	412.7(13.31)	515.2(16.62)	0.0	125.81	23.03	6.0	0.899	66.95	66.48	11.00	922.33
317		2	28	920.6	914.2	366.4(13.09)	465.4(16.62)	0.0	123.01	20.67	6.0	0.898	66.76	66.48	11.00	921.18
318		3	31	919.4	813.6	417.2(13.46)	515.2(16.62)	0.0	122.21	22.73	6.0	0.897	66.58	66.48	11.00	920.03
319		4	30	919.2	792.5	480.3(16.01)	498.6(16.62)	0.0	121.67	21.91	6.0	0.897	66.46	66.46	11.00	919.30
320		5	31	926.3	1408.4	1739.7(56.12)	1116.0(36.00)	0.0	125.00	49.97	12.9	0.895	67.00	67.00	11.00	922.71
321		6	30	922.8	1102.0	1205.9(40.20)	1500.0(50.00)	0.0	125.00	67.16	17.9	0.893	67.00	67.00	11.00	924.51
322		7	31	929.6	1701.4	1358.1(43.81)	744.0(24.00)	0.0	125.00	33.31	8.6	0.894	67.00	67.00	11.00	926.18
323		8	31	929.8	1716.1	589.0(19.00)	589.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	929.69
324		9	30	928.3	1591.2	427.6(14.25)	540.0(18.00)	0.0	125.00	24.18	6.4	0.897	67.00	67.00	11.00	929.06
						687.6(22.51)	665.1(21.86)	0.0	123.91	29.69		0.897	2034.	2029.	11.00	924.05
325	1967	10	31	927.0	1474.2	447.2(14.43)	558.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	927.68
326		11	30	925.8	1367.4	434.6(14.48)	540.0(18.00)	0.0	125.00	24.18	6.4	0.897	67.00	67.00	11.00	926.40
327		12	31	924.5	1227.7	443.3(14.30)	558.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	925.14
328		1	31	923.1	1130.3	435.7(14.05)	558.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	923.78
329		2	29	916.0	547.6	1215.3(41.91)	1798.0(62.00)	0.0	124.89	79.10	22.4	0.897	66.50	66.50	11.00	919.53
330		3	31	908.8	52.5	1506.1(48.58)	2000.7(64.54)	0.0	114.95	84.45	23.7	0.891	65.35	65.35	11.00	912.45
331		4	30	916.1	555.5	2436.9(81.23)	1930.0(64.33)	0.0	115.00	81.49	23.6	0.891	65.36	65.36	11.00	912.45
332		5	31	930.0	1736.1	5333.5(173.05)	2077.0(67.00)	2068.4	125.00	93.00	24.0	0.897	67.00	67.00	11.00	923.04
333		6	30	930.0	1736.1	2857.9(95.26)	2010.0(67.00)	354.7	125.00	90.00	24.0	0.897	67.00	67.00	11.00	930.00
334		7	31	929.5	1695.6	968.3(31.24)	992.0(32.00)	0.0	125.00	44.42	11.5	0.897	67.00	67.00	11.00	929.77
335		8	31	928.8	1630.7	466.5(15.05)	515.2(16.62)	0.0	121.85	22.66	6.0	0.897	67.00	66.48	11.00	929.17
336		9	30	927.5	1514.4	435.9(14.53)	540.0(18.00)	0.0	125.00	24.18	6.4	0.896	67.00	67.00	11.00	928.13
						1415.1(46.43)	1173.1(38.62)	241.9	123.81	51.154		0.896	2034.	2033.	11.00	923.96

Ayvali Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (CM)	S (M3/SD)	QIN (M3/SD)	QQ (M3/SD)	QOUT (M3/SD)	P (MW)	E (GWHR)	T (H)	ETG (M3/S)	QCR (M3/S)	QUP (M3/S)	LOSS (CM)	SUII (CM)
337	1968	10	31	926.2	1404.8	454.5	(14.66)	558.0	(18.00)	0.0	125.00	0.895	67.00	67.00	11.00	926.84
338		11	30	925.2	1315.3	451.8	(15.06)	540.0	(18.00)	0.0	125.00	0.894	67.00	67.00	11.00	925.71
339		12	31	923.9	1198.1	440.7	(14.22)	558.0	(18.00)	0.0	125.00	0.893	67.00	67.00	11.00	924.53
340		1	31	922.3	1063.9	423.9	(13.67)	558.0	(18.00)	0.0	125.00	0.893	67.00	67.00	11.00	923.09
341		2	28	925.1	1302.8	742.8	(26.35)	504.0	(18.00)	0.0	125.00	0.895	67.00	67.00	11.00	923.69
342		3	31	928.7	1621.7	1559.6	(50.31)	1240.0	(40.00)	0.0	125.00	0.899	66.54	66.54	11.00	926.87
343		4	30	927.3	1499.7	1803.6	(60.12)	1920.0	(64.00)	0.0	125.00	0.899	65.35	65.35	11.00	928.00
344		5	31	929.9	1724.9	2280.4	(73.26)	2046.0	(66.00)	0.0	125.00	0.898	66.49	66.49	11.00	928.59
345		6	30	929.7	1714.0	902.3	(30.08)	900.0	(30.00)	0.0	125.00	0.898	67.00	67.00	11.00	929.81
346		7	31	928.6	1609.7	427.6	(13.79)	515.2	(16.62)	0.0	121.93	0.897	67.00	66.48	11.00	929.15
347		8	31	927.4	1504.0	423.4	(13.72)	515.2	(16.62)	0.0	121.17	0.896	67.00	66.48	11.00	927.95
348		9	30	926.2	1402.2	408.7	(13.62)	498.6	(16.62)	0.0	121.18	0.896	67.00	66.48	11.00	926.77
						860.1	(28.28)	862.8	(28.32)	0.0	124.11	0.896	2031.	2027.	11.00	926.75
349	1969	10	31	925.5	1338.9	457.9	(14.77)	515.2	(16.62)	0.0	121.16	0.896	67.00	66.48	11.00	925.83
350		11	30	924.6	1260.3	421.1	(14.04)	498.6	(16.62)	0.0	121.42	0.896	67.00	66.48	11.00	925.02
351		12	31	923.6	1179.7	434.7	(14.02)	515.2	(16.62)	0.0	122.12	0.897	67.00	66.48	11.00	924.11
352		1	31	922.6	1087.7	423.2	(13.65)	515.2	(16.62)	0.0	123.02	0.898	67.00	66.48	11.00	923.12
353		2	28	921.6	1001.5	379.2	(13.54)	465.4	(16.62)	0.0	123.65	0.899	66.91	66.48	11.00	922.11
354		3	31	920.8	928.4	442.7	(14.28)	455.2	(16.62)	0.0	123.02	0.898	66.77	66.48	11.00	921.20
355		4	30	923.2	1140.9	715.9	(23.86)	498.6	(16.62)	0.0	119.36	0.895	66.09	66.09	11.00	921.99
356		5	31	929.5	1691.3	1074.2	(34.65)	515.2	(16.62)	0.0	120.07	0.895	67.00	66.48	11.00	926.35
357		6	30	928.3	1627.3	447.6	(14.92)	498.6	(16.62)	0.0	122.00	0.897	67.00	66.48	11.00	929.12
358		7	31	927.7	1536.4	440.7	(14.22)	515.2	(16.62)	0.0	121.11	0.896	67.00	66.48	11.00	928.24
359		8	31	926.3	1411.4	406.0	(13.10)	515.2	(16.62)	0.0	120.97	0.896	67.00	66.48	11.00	927.01
360		9	30	925.0	1301.9	400.9	(13.36)	498.6	(16.62)	0.0	121.28	0.896	67.00	66.48	11.00	925.67
						503.7	(16.53)	505.5	(16.62)	0.0	121.60	0.897	2035.	2021.	11.00	924.98
361	1970	10	31	923.9	1202.2	421.3	(13.59)	515.2	(16.62)	0.0	121.67	0.897	67.00	66.48	11.00	924.47
362		11	30	922.8	1105.7	403.3	(13.44)	498.6	(16.62)	0.0	122.12	0.897	67.00	66.48	11.00	923.35
363		12	31	921.6	996.6	406.1	(13.10)	515.2	(16.62)	0.0	122.73	0.898	66.70	66.48	11.00	922.18
364		1	31	920.3	886.5	405.2	(13.07)	515.2	(16.62)	0.0	122.83	0.898	66.72	66.48	11.00	920.93
365		2	28	919.0	780.9	359.7	(12.85)	465.4	(16.62)	0.0	121.94	0.897	66.52	66.48	11.00	919.66
366		3	31	917.9	693.4	428.3	(13.82)	515.2	(16.62)	0.0	120.83	0.896	66.33	66.33	11.00	918.45
367		4	30	918.0	702.3	512.1	(17.07)	498.6	(16.62)	0.0	119.98	0.895	66.19	66.19	11.00	917.95
368		5	31	923.6	1179.2	999.9	(32.26)	515.2	(16.62)	0.0	116.15	0.892	65.56	65.56	11.00	920.83
369		6	30	930.0	1732.5	1145.1	(38.84)	600.0	(20.00)	0.0	125.00	0.895	67.00	67.00	11.00	926.80
370		7	31	928.6	1614.9	414.3	(13.57)	515.2	(16.62)	0.0	122.02	0.897	67.00	66.48	11.00	929.29
371		8	31	927.5	1519.4	478.4	(15.43)	558.0	(18.00)	0.0	125.00	0.896	67.00	67.00	11.00	928.07
372		9	30	925.7	1357.6	390.2	(13.01)	540.0	(18.00)	0.0	125.00	0.896	67.00	67.00	11.00	926.60
						532.0	(17.49)	521.0	(17.13)	0.0	122.11	0.896	2028.	2023.	11.00	923.21
373	1971	10	31	924.0	1212.4	418.7	(13.51)	558.0	(18.00)	0.0	125.00	0.896	67.00	67.00	11.00	924.85
374		11	30	923.5	1081.2	410.0	(13.67)	540.0	(18.00)	0.0	125.00	0.897	67.00	67.00	11.00	923.27
375		12	31	921.5	987.7	421.7	(13.60)	515.2	(16.62)	0.0	122.15	0.897	66.57	66.48	11.00	921.99
376		1	31	920.3	885.9	413.4	(13.34)	515.2	(16.62)	0.0	122.79	0.898	66.72	66.48	11.00	920.88
377		2	29	919.2	794.9	391.0	(13.48)	482.0	(16.62)	0.0	122.00	0.897	66.53	66.48	11.00	919.74
378		3	31	918.1	709.0	429.9	(13.87)	515.2	(16.62)	0.0	121.02	0.896	66.36	66.36	11.00	918.64
379		4	30	920.2	877.5	671.7	(22.39)	498.6	(16.62)	0.0	118.84	0.894	66.00	66.00	11.00	919.15
380		5	31	927.2	1486.7	1609.3	(51.91)	992.0	(32.00)	0.0	125.00	0.892	67.00	67.00	11.00	923.68
381		6	30	929.7	1710.1	1645.9	(53.86)	1380.0	(46.00)	0.0	125.00	0.896	67.00	67.00	11.00	928.43
382		7	31	929.4	1682.5	547.1	(17.65)	558.0	(18.00)	0.0	125.00	0.897	67.00	67.00	11.00	929.55
383		8	31	927.7	1530.3	422.0	(13.61)	558.0	(18.00)	0.0	125.00	0.897	67.00	67.00	11.00	928.52
384		9	30	926.3	1409.7	431.4	(14.38)	540.0	(18.00)	0.0	125.00	0.896	67.00	67.00	11.00	926.96
						648.5	(21.27)	637.7	(20.92)	0.0	123.48	0.896	2036.	2035.	11.00	923.80

Ayvalii Project

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NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QG (M3/SD)	QOUT (M3/SD)	P (MW)	E (GMW)	T (H)	ETG (M3/S)	QCR (M3/S)	GUP (M)	LOSS (M)	SUII (M)
385	1972	10	31	925.0	1297.0	451.2(14.56)	528.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	925.63
386		11	30	923.8	1188.7	432.9(14.43)	540.0(18.00)	0.0	125.00	24.18	6.4	0.896	67.00	67.00	11.00	924.37
387		12	31	922.3	1081.9	431.2(13.91)	538.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	923.03
388		1	31	921.3	975.0	428.3(13.82)	515.2(16.62)	0.0	122.83	22.85	6.0	0.898	66.72	66.48	11.00	921.81
389		2	28	920.5	906.3	396.6(14.17)	465.4(16.62)	0.0	122.82	20.63	6.0	0.898	66.72	66.48	11.00	920.92
390		3	31	919.7	834.4	423.9(14.32)	515.2(16.62)	0.0	122.26	22.74	6.0	0.897	66.59	66.48	11.00	920.11
391		4	30	921.6	997.9	666.9(22.23)	498.6(16.62)	0.0	122.62	22.07	13.6	0.897	67.00	67.00	11.00	920.63
392		5	31	929.0	1652.2	1840.5(59.37)	1178.0(38.00)	0.0	125.00	52.75	13.6	0.897	67.00	67.00	11.00	925.31
393		6	30	930.0	1736.1	1660.4(55.35)	1540.0(52.00)	3.4	125.00	69.85	18.6	0.897	67.00	66.48	11.00	929.77
394		7	31	929.5	1693.2	491.0(15.84)	515.2(16.62)	0.0	122.02	22.70	6.0	0.897	67.00	66.48	11.00	928.80
395		8	31	928.1	1566.9	403.2(13.01)	515.2(16.62)	0.0	122.06	22.70	6.0	0.897	67.00	66.48	11.00	927.44
396		9	30	926.8	1456.0	399.8(13.33)	498.6(16.62)	0.0	122.74	22.09	6.0	0.898	67.00	66.48	11.00	927.44
						670.5(22.03)	659.8(21.69)	0.3	123.53	29.38		0.897	2035.	2039.	11.00	924.78
397	1973	10	31	925.9	1378.2	443.4(14.30)	515.2(16.62)	0.0	123.75	23.02	6.0	0.899	67.00	66.48	11.00	926.36
398		11	30	925.1	1304.9	426.6(14.22)	498.6(16.62)	0.0	124.50	22.41	6.0	0.899	66.75	66.48	11.00	925.50
399		12	31	924.0	1207.5	417.8(13.48)	515.2(16.62)	0.0	125.00	23.27	6.0	0.899	66.41	66.41	11.00	924.52
400		1	31	922.7	1099.9	407.6(13.15)	515.2(16.62)	0.0	124.44	23.15	6.0	0.899	66.78	66.48	11.00	923.35
401		2	28	921.6	1003.0	368.5(13.16)	465.4(16.62)	0.0	123.71	20.78	6.0	0.899	66.92	66.48	11.00	922.19
402		3	31	920.7	923.3	436.1(14.07)	515.2(16.62)	0.0	123.00	22.88	6.0	0.898	66.76	66.48	11.00	921.18
403		4	30	920.5	899.7	479.9(16.00)	498.6(16.62)	0.0	122.59	22.07	6.0	0.898	66.67	66.48	11.00	920.59
404		5	31	927.2	1491.4	1115.0(35.97)	515.2(16.62)	0.0	121.59	22.62	6.4	0.896	67.00	66.48	11.00	923.83
405		6	30	928.4	1599.7	660.8(22.03)	540.0(18.00)	0.0	125.00	24.18	6.4	0.896	67.00	67.00	11.00	927.82
406		7	31	926.7	1450.9	411.1(13.26)	543.6(17.54)	0.0	125.00	24.34	6.3	0.896	67.00	67.00	11.00	927.59
407		8	31	925.5	1343.6	407.9(13.16)	499.8(16.12)	0.0	117.40	21.84	6.0	0.896	67.00	64.94	11.00	926.13
408		9	30	924.8	1276.6	431.6(14.39)	487.0(16.23)	0.0	118.66	21.36	6.0	0.896	67.00	64.94	11.00	925.14
						500.5(16.43)	509.1(16.74)	0.0	123.89	22.66		0.898	2034.	2016.	11.00	924.52
409	1974	10	31	923.5	1169.1	407.7(13.15)	509.4(16.43)	0.0	120.70	22.45	6.0	0.897	67.00	65.73	11.00	924.14
410		11	30	922.4	1068.0	397.5(13.25)	497.4(16.58)	0.0	122.86	22.12	6.0	0.898	67.00	66.33	11.00	922.95
411		12	31	921.3	971.5	418.7(13.51)	515.2(16.62)	0.0	123.45	22.96	6.0	0.898	66.87	66.48	11.00	921.82
412		1	31	920.1	871.9	415.6(13.41)	515.2(16.62)	0.0	122.67	22.82	6.0	0.898	66.69	66.48	11.00	920.70
413		2	28	918.9	773.5	367.0(13.11)	465.4(16.62)	0.0	121.85	20.47	6.0	0.897	66.50	66.48	11.00	919.53
414		3	31	917.8	683.4	425.1(13.71)	514.6(16.60)	0.0	120.72	22.49	6.0	0.896	66.31	66.31	11.00	918.34
415		4	30	918.6	749.2	564.4(18.81)	494.0(16.47)	0.0	119.81	21.57	6.0	0.896	66.29	65.87	11.00	918.19
416		5	31	919.9	855.8	621.8(20.06)	507.4(16.37)	0.0	114.56	21.37	6.0	0.891	65.29	65.29	11.00	919.28
417		6	30	920.1	869.9	512.7(17.09)	487.6(16.25)	0.0	113.05	20.55	6.0	0.890	65.04	65.01	11.00	920.03
418		7	31	919.0	782.3	427.6(13.79)	501.2(16.17)	0.0	112.11	20.85	6.0	0.889	64.96	64.67	11.00	919.57
419		8	31	917.5	662.6	395.6(12.76)	501.8(16.19)	0.0	112.33	20.89	6.0	0.889	64.98	64.75	11.00	918.26
420		9	30	915.1	559.0	395.0(13.17)	488.6(16.29)	0.0	113.74	20.87	6.0	0.890	65.15	65.14	11.00	916.81
						445.7(14.65)	499.8(16.43)	0.0	118.15	21.37		0.894	2008.	1999.	11.00	919.97
421	1975	10	31	914.9	470.5	426.7(13.76)	510.3(16.46)	0.0	114.75	21.51	6.0	0.891	65.32	65.32	11.00	915.53
422		11	30	913.7	382.5	410.6(13.69)	497.6(16.59)	0.0	115.89	21.13	6.1	0.892	65.51	65.51	11.00	914.32
423		12	31	912.1	267.6	400.3(12.91)	515.2(16.62)	0.0	115.41	21.81	6.1	0.890	65.43	65.43	11.00	912.89
424		1	31	910.4	158.0	405.6(13.09)	515.2(16.62)	0.0	113.85	21.60	6.1	0.890	65.17	65.17	11.00	911.26
425		2	29	908.9	56.2	380.2(13.11)	482.0(16.62)	0.0	113.33	20.02	6.1	0.889	64.91	64.91	11.00	909.67
426		3	31	908.0	0.0	459.0(14.81)	514.7(16.60)	0.0	111.17	21.22	6.2	0.888	64.71	64.71	11.00	908.44
427		4	30	917.7	675.3	1177.8(39.26)	498.6(16.62)	0.0	115.36	21.10	6.1	0.891	65.42	65.42	11.00	912.83
428		5	31	929.2	1664.5	2236.9(72.16)	1240.0(40.00)	0.0	125.00	55.52	14.3	0.896	67.00	67.00	11.00	923.42
429		6	30	929.4	1687.2	1715.7(57.19)	1680.0(56.00)	0.0	125.00	75.22	20.1	0.898	67.00	67.00	11.00	929.31
430		7	31	929.7	1709.0	782.4(25.24)	744.0(24.00)	0.0	125.00	33.31	8.6	0.897	67.00	67.00	11.00	929.57
431		8	31	928.6	1617.6	440.1(14.20)	515.2(16.62)	0.0	122.28	22.74	6.0	0.897	67.00	66.48	11.00	928.17
432		9	30	927.7	1532.4	425.6(14.19)	498.6(16.62)	0.0	122.56	22.06	6.0	0.898	67.00	66.48	11.00	928.16
						771.7(25.30)	684.3(22.45)	0.0	118.22	29.77		0.893	2012.	2009.	11.00	918.71

Ayvali Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	GO (M3/SD)	GOUT (M3/SD)	P (MM)	E (GWH)	T (H)	ETG	QCR (M3/S)	QUP (M3/S)	LOSS (M)	SUILL (M)
433	1976	10	31	926.9	1460.9	449.8(14.51)	515.2(16.62)	0.0	122.92	22.86	6.0	0.898	67.00	66.48	11.00	927.27
434		11	30	926.1	1391.8	430.7(14.36)	498.6(16.62)	0.0	123.36	22.20	6.0	0.899	67.00	66.48	11.00	926.46
435		12	31	925.2	1316.4	439.8(14.19)	515.2(16.62)	0.0	124.27	23.11	6.0	0.899	66.87	66.48	11.00	925.64
436		1	31	924.2	1226.0	424.8(13.70)	515.2(16.62)	0.0	125.00	23.29	6.0	0.899	66.36	66.36	11.00	924.69
437		2	28	923.3	1151.9	391.2(13.97)	465.4(16.62)	0.0	124.68	20.95	6.0	0.899	66.65	66.48	11.00	923.75
438		3	31	923.4	1331.5	695.5(22.43)	515.2(16.62)	0.0	125.00	23.26	6.0	0.899	66.46	66.46	11.00	924.36
439		4	30	923.1	1658.5	1592.3(59.08)	1260.0(42.00)	0.0	125.00	57.53	15.3	0.899	65.71	65.71	11.00	927.25
440		5	31	923.3	1415.3	1843.3(59.46)	2077.0(67.00)	0.0	125.00	93.00	24.0	0.897	67.00	67.00	11.00	927.73
441		6	30	930.0	1736.1	1001.0(33.37)	660.0(22.00)	7.8	125.00	29.55	7.9	0.896	67.00	67.00	11.00	928.17
442		7	31	928.9	1640.9	436.8(14.09)	515.2(16.62)	0.0	121.81	22.66	6.0	0.897	67.00	66.48	11.00	928.46
443		8	31	927.1	1478.5	411.7(13.28)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	927.99
444		9	30	925.5	1338.5	411.9(13.73)	540.0(18.00)	0.0	125.00	24.18	6.4	0.896	67.00	67.00	11.00	926.26
						710.7(23.35)	719.6(23.61)	0.7	124.34	32.30		0.898	2030.	2035.	11.00	926.58
445	1977	10	31	924.0	1206.9	432.3(13.94)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	924.71
446		11	30	922.5	1081.6	415.9(13.86)	540.0(18.00)	0.0	125.00	24.18	6.4	0.897	67.00	67.00	11.00	923.24
447		12	31	921.5	989.0	422.6(13.63)	515.2(16.62)	0.0	122.70	22.82	6.0	0.898	66.69	66.48	11.00	922.00
448		1	31	920.4	896.1	422.3(13.62)	515.2(16.62)	0.0	122.84	22.85	6.0	0.898	66.73	66.48	11.00	920.94
449		2	28	919.6	825.3	394.6(14.09)	465.4(16.62)	0.0	122.18	20.53	6.0	0.897	66.57	66.48	11.00	919.99
450		3	31	925.0	1299.6	990.1(31.94)	515.2(16.62)	0.0	123.78	23.02	6.0	0.899	66.94	66.48	11.00	922.29
451		4	30	929.5	1691.5	1597.2(53.24)	1200.0(40.00)	0.0	125.00	54.90	14.6	0.899	65.57	65.57	11.00	927.58
452		5	31	929.7	1707.6	2009.5(64.82)	1984.0(64.00)	0.0	125.00	89.29	23.0	0.898	66.66	66.66	11.00	929.58
453		6	30	930.0	1736.1	1345.3(41.51)	1200.0(40.00)	3.6	125.00	53.73	14.3	0.898	67.00	67.00	11.00	929.84
454		7	31	928.7	1625.9	421.7(13.60)	515.2(16.62)	0.0	122.32	22.75	6.0	0.897	67.00	66.48	11.00	929.37
455		8	31	926.8	1456.6	404.7(13.06)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	927.78
456		9	30	925.1	1302.9	398.2(13.27)	540.0(18.00)	0.0	125.00	24.18	6.4	0.896	67.00	67.00	11.00	925.93
						762.9(25.05)	758.9(24.92)	0.3	124.07	34.02		0.898	2031.	2027.	11.00	925.24
457	1978	10	31	923.4	1160.8	421.7(13.60)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	924.24
458		11	30	922.0	1031.9	412.2(13.74)	540.0(18.00)	0.0	125.00	24.18	6.4	0.897	67.00	67.00	11.00	922.70
459		12	31	920.9	940.1	423.5(13.66)	515.2(16.62)	0.0	122.27	22.74	6.0	0.897	66.60	66.48	11.00	921.44
460		1	31	919.8	846.6	421.7(13.60)	515.2(16.62)	0.0	122.44	22.77	6.0	0.898	66.64	66.48	11.00	920.37
461		2	28	918.9	768.3	387.0(13.82)	465.4(16.62)	0.0	121.71	20.45	6.0	0.897	66.47	66.47	11.00	919.34
462		3	31	917.8	689.4	436.9(14.09)	515.2(16.62)	0.0	120.73	22.51	6.0	0.896	66.31	66.31	11.00	918.34
463		4	30	918.7	755.2	569.0(18.97)	498.6(16.62)	0.0	120.28	21.73	6.0	0.896	66.24	66.24	11.00	918.26
464		5	31	928.6	1614.2	1610.8(51.96)	744.0(24.00)	0.0	125.00	33.31	8.6	0.894	67.00	67.00	11.00	923.65
465		6	30	929.4	1687.2	1585.9(52.86)	1500.0(50.00)	0.0	125.00	67.16	17.9	0.897	67.00	67.00	11.00	929.02
466		7	31	929.4	1687.6	637.0(20.55)	620.0(20.00)	0.0	125.00	27.76	7.2	0.897	67.00	67.00	11.00	929.44
467		8	31	928.1	1567.3	411.2(13.26)	515.2(16.62)	0.0	122.02	22.70	6.0	0.897	67.00	66.48	11.00	928.76
468		9	30	926.8	1453.7	397.0(13.23)	498.6(16.62)	0.0	122.39	22.03	6.0	0.898	67.00	66.48	11.00	927.42
						642.8(21.11)	623.8(20.53)	0.0	123.07	27.69		0.897	2031.	2028.	11.00	923.58
469	1979	10	31	925.9	1380.1	447.6(14.44)	515.2(16.62)	0.0	123.10	22.90	6.0	0.898	67.00	66.48	11.00	926.36
470		11	30	925.5	1340.7	460.5(15.35)	498.6(16.62)	0.0	122.83	22.11	6.0	0.898	67.00	66.48	11.00	925.71
471		12	31	924.2	1229.4	446.6(14.41)	558.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	924.85
472		1	31	922.8	1106.5	435.1(14.04)	558.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	923.51
473		2	29	921.9	1029.3	404.8(13.96)	482.0(16.62)	0.0	122.63	21.34	6.0	0.898	66.68	66.48	11.00	922.37
474		3	31	928.8	1628.2	1114.8(35.96)	515.2(16.62)	0.0	125.00	23.36	6.0	0.899	66.15	66.15	11.00	922.35
475		4	30	929.6	1703.7	1761.1(58.70)	1680.0(56.00)	0.0	125.00	77.55	20.7	0.899	66.15	66.15	11.00	929.20
476		5	31	930.0	1736.1	1750.8(55.51)	1674.0(54.00)	4.9	125.00	75.25	19.4	0.899	66.74	66.74	11.00	929.82
477		6	30	929.0	1648.2	423.9(14.13)	498.6(16.62)	0.0	122.07	21.97	6.0	0.897	67.00	66.48	11.00	929.50
478		7	31	927.0	1475.4	401.7(12.96)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	928.01
479		8	31	925.2	1314.2	412.2(13.30)	558.0(18.00)	0.0	125.00	24.99	6.4	0.895	67.00	67.00	11.00	926.10
480		9	30	923.4	1158.9	386.2(13.21)	540.0(18.00)	0.0	125.00	24.18	6.4	0.895	67.00	67.00	11.00	924.30
						702.1(23.00)	719.6(23.59)	0.4	124.62	32.38		0.898	2035.	2030.	11.00	926.26

Ayvali Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QQ (M3/SD)	QOUT (M3/SD)	P (MW)	E (GMH)	T (H)	ETG (M3/S)	QCR (M3/S)	GUP (M3/S)	LOSS (M)	SUII (M)
481	1980	10	31	922.2	1057.1	419.1(13.52)	515.2(16.62)	0.0	120.97	22.50	6.0	0.896	67.00	66.48	11.00	922.83
482		11	30	922.2	962.7	405.4(13.51)	498.6(16.62)	0.0	121.38	21.87	6.0	0.897	66.42	66.42	11.00	921.71
483		12	31	920.0	863.8	416.3(13.43)	515.2(16.62)	0.0	122.10	22.71	6.0	0.897	66.56	66.48	11.00	920.61
484		1	31	918.8	762.7	414.1(13.36)	515.2(16.62)	0.0	121.77	22.65	6.0	0.897	66.48	66.48	11.00	919.41
485		2	28	917.6	673.1	375.8(13.42)	485.4(16.62)	0.0	120.59	20.32	6.0	0.896	66.29	66.29	11.00	918.20
486		3	31	916.4	581.5	424.2(13.68)	515.2(16.62)	0.0	119.43	22.34	6.0	0.895	66.10	66.10	11.00	917.03
487		4	30	916.4	581.5	503.2(16.77)	498.6(16.62)	0.0	118.85	21.55	6.0	0.894	66.00	66.00	11.00	916.43
488		5	31	922.8	1120.6	1051.9(33.93)	515.2(16.62)	0.0	118.23	22.18	6.1	0.894	65.90	65.90	11.00	916.64
489		6	30	930.0	1736.1	1720.0(57.35)	1080.0(36.00)	3.4	125.00	48.36	12.9	0.895	67.00	67.00	11.00	926.43
490		7	31	928.8	1633.5	439.4(13.85)	515.2(16.62)	0.0	121.95	22.68	6.0	0.897	67.00	66.48	11.00	929.41
491		8	31	927.0	1473.6	444.1(13.36)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	927.92
492		9	30	925.3	1322.1	400.4(13.35)	540.0(18.00)	0.0	125.00	24.18	6.4	0.896	67.00	67.00	11.00	926.14
						581.2(19.13)	561.0(18.46)	0.3	121.69	24.69		0.896	2025.	2022.	11.00	922.15
493	1981	10	31	923.6	1178.1	419.9(13.54)	558.0(18.00)	0.0	125.00	24.99	6.4	0.896	67.00	67.00	11.00	924.45
494		11	30	922.2	1051.7	414.7(13.82)	540.0(18.00)	0.0	125.00	24.18	6.4	0.897	67.00	67.00	11.00	922.91
495		12	31	921.0	947.4	411.0(13.26)	515.2(16.62)	0.0	121.89	22.67	6.0	0.897	66.51	66.48	11.00	921.59
496		1	31	920.1	869.8	437.6(14.12)	515.2(16.62)	0.0	122.57	22.80	6.0	0.898	66.66	66.48	11.00	920.56
497		2	28	919.3	803.8	399.4(14.26)	465.4(16.62)	0.0	121.98	20.49	6.0	0.897	66.53	66.48	11.00	919.71
498		3	31	918.4	730.2	442.2(14.26)	515.2(16.62)	0.0	121.21	22.57	6.0	0.896	66.39	66.39	11.00	918.83
499		4	30	922.4	1071.6	844.6(28.15)	498.6(16.62)	0.0	122.45	22.04	6.0	0.898	66.64	66.48	11.00	920.39
500		5	31	928.8	1628.4	2115.2(68.23)	1350.0(50.00)	0.0	125.00	69.40	17.9	0.896	67.00	67.00	11.00	925.59
501		6	30	930.0	1736.1	657.7(22.23)	547.1(18.24)	0.0	135.00	24.50	6.5	0.897	67.00	67.00	11.00	929.39
502		7	31	930.0	1736.1	181.5( 5.82)	164.7( 5.31)	0.0	39.07	7.27	6.0	0.897	67.00	21.26	11.00	930.00
503		8	31	928.8	1632.2	270.4( 8.72)	358.0(11.55)	0.0	85.14	15.84	6.0	0.898	67.00	46.19	11.00	929.41
504		9	30	927.7	1431.2	397.7(13.26)	486.3(16.21)	0.0	120.30	21.65	6.0	0.899	67.00	64.84	11.00	928.24
						583.5(19.15)	559.5(18.37)	0.0	112.88	24.87		0.897	2032.	1854.	11.00	924.25
505	1982	10	31	926.5	1432.1	416.1(13.42)	509.1(16.42)	0.0	122.81	22.84	6.0	0.899	66.87	65.69	11.00	927.10
506		11	30	925.4	1333.4	399.9(13.35)	497.4(16.58)	0.0	124.86	22.48	6.0	0.899	66.39	66.32	11.00	925.97
507		12	31	924.1	1233.4	405.2(13.07)	515.2(16.62)	0.0	125.00	23.30	6.0	0.899	66.53	66.33	11.00	924.78
508		1	31	922.9	1118.0	409.8(13.22)	515.2(16.62)	0.0	124.56	23.17	6.0	0.899	66.72	66.48	11.00	923.55
509		2	28	922.1	1040.4	387.8(13.85)	465.4(16.62)	0.0	123.93	20.82	6.0	0.899	66.97	66.48	11.00	922.50
510		3	31	921.2	968.1	422.8(14.25)	514.6(16.60)	0.0	123.18	22.91	6.0	0.899	66.84	66.40	11.00	921.65
511		4	30	921.2	968.1	498.9(16.65)	493.7(16.46)	0.0	121.84	21.93	6.0	0.898	66.77	65.83	11.00	921.24
512		5	31	920.7	917.2	464.0(14.97)	507.0(16.36)	0.0	120.88	22.48	6.0	0.898	66.73	65.42	11.00	920.95
513		6	30	920.2	876.0	457.3(15.24)	487.4(16.25)	0.0	115.05	20.71	6.0	0.892	65.53	64.99	11.00	920.42
514		7	31	918.3	723.8	363.1(11.71)	501.2(16.17)	0.0	111.66	20.77	6.0	0.889	64.85	64.67	11.00	919.23
515		8	31	916.3	573.8	365.2(11.78)	502.0(16.19)	0.0	111.47	20.74	6.0	0.888	64.76	64.76	11.00	917.30
516		9	30	915.3	500.7	425.5(14.18)	488.8(16.29)	0.0	112.64	20.34	6.0	0.889	64.96	64.96	11.00	915.83
						419.6(13.81)	499.7(16.43)	0.0	119.82	21.87		0.896	2012.	1998.	11.00	921.71
517	1983	10	31	914.0	404.7	419.2(13.52)	510.3(16.46)	0.0	113.95	21.41	6.1	0.890	65.19	65.19	11.00	914.68
518		11	30	913.2	345.3	439.2(14.64)	497.6(16.59)	0.0	113.76	20.85	6.1	0.890	65.15	65.15	11.00	913.60
519		12	31	911.9	258.0	427.9(13.80)	515.2(16.62)	0.0	112.93	21.48	6.1	0.889	65.01	65.01	11.00	912.56
520		1	31	910.6	164.9	422.2(13.62)	515.2(16.62)	0.0	112.80	21.46	6.1	0.889	64.99	64.99	11.00	911.24
521		2	29	909.2	74.9	391.9(13.51)	482.0(16.62)	0.0	112.52	20.04	6.1	0.889	64.94	64.94	11.00	909.86
522		3	31	908.0	0.0	440.3(14.20)	514.7(16.60)	0.0	111.31	21.24	6.2	0.888	64.73	64.73	11.00	908.59
523		4	30	913.8	387.8	890.3(29.68)	498.6(16.62)	0.0	113.50	20.86	6.1	0.890	65.11	65.11	11.00	910.89
524		5	31	928.6	1616.8	1980.1(63.88)	744.0(24.00)	0.0	123.56	33.04	8.6	0.898	66.77	66.77	11.00	921.21
525		6	30	929.6	1696.6	932.8(31.09)	840.0(28.00)	0.0	125.00	37.61	10.0	0.897	67.00	67.00	11.00	929.09
526		7	31	928.5	1608.5	443.6(14.31)	515.2(16.62)	0.0	122.02	22.70	6.0	0.897	67.00	66.48	11.00	929.09
527		8	31	927.7	1332.7	455.4(14.60)	515.2(16.62)	0.0	121.32	22.57	6.0	0.896	67.00	66.48	11.00	928.11
528		9	30	926.7	1142.8	420.8(14.03)	498.6(16.62)	0.0	120.81	21.75	6.0	0.896	67.00	66.48	11.00	927.17
						658.6(20.91)	553.9(18.17)	0.0	116.96	23.75		0.895	2008.	2004.	11.00	921.00

Ayvali Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QQ (M3/SD)	QOUT (M3/SD)	P (NMW)	E (GMW)	T (CH)	ETG	GCR (M3/S)	QUP (M3/S)	LOSS (M)	SUII (M)
529	1984	10	31	925.5	1339.5	417.9(13.48)	515.2(16.62)	0.0	120.82	22.47	6.0	0.896	67.00	66.48	11.00	926.06
530		11	30	924.1	1215.9	417.5(13.92)	540.0(18.00)	0.0	125.00	24.18	6.4	0.895	67.00	67.00	11.00	924.77
531		12	31	922.4	1068.8	411.0(13.26)	515.0(18.00)	0.0	118.30	24.99	6.4	0.894	67.00	67.00	11.00	923.22
532		1	31	921.7	1012.0	458.4(14.79)	515.2(16.62)	0.0	125.00	22.19	6.1	0.894	65.91	65.91	11.00	922.06
533		2	28	921.0	944.9	398.3(14.22)	465.4(16.62)	0.0	119.07	20.14	6.0	0.895	66.04	66.04	11.00	921.35
534		3	31	920.3	887.5	458.4(14.79)	515.2(16.62)	0.0	119.52	22.53	6.4	0.895	66.12	66.12	11.00	920.64
535		4	30	926.4	1421.0	1078.3(35.94)	540.0(18.00)	0.0	125.00	24.18	6.4	0.895	67.00	67.00	11.00	920.36
536		5	31	929.7	1707.6	1349.6(43.54)	1054.0(38.00)	0.0	125.00	47.19	12.2	0.896	67.00	67.00	11.00	928.04
537		6	30	928.2	1579.9	384.0(12.80)	498.6(16.62)	0.0	121.55	21.83	6.0	0.897	67.00	66.48	11.00	928.95
538		7	31	926.9	1460.8	412.3(13.30)	515.2(16.62)	0.0	121.55	22.83	6.0	0.897	67.00	66.48	11.00	927.54
539		8	31	925.3	1327.9	397.8(12.83)	515.2(16.62)	0.0	123.07	22.89	6.0	0.898	67.00	66.48	11.00	926.10
540		9	30	924.1	1220.3	402.6(13.42)	498.6(16.62)	0.0	124.41	22.59	6.0	0.899	66.80	66.48	11.00	924.73
						548.8(18.02)	560.9(18.41)	0.0	122.37	24.79		0.896	2030.	2024.	11.00	924.73
541	1985	10	31	922.7	1093.0	393.6(12.70)	515.2(16.62)	0.0	124.46	23.15	6.0	0.899	66.77	66.48	11.00	923.39
542		11	30	921.7	1013.1	419.8(13.99)	498.6(16.62)	0.0	123.72	22.27	6.0	0.899	66.93	66.48	11.00	922.20
543		12	31	920.6	911.1	413.3(13.33)	515.2(16.62)	0.0	122.99	22.88	6.0	0.898	66.76	66.48	11.00	921.17
544		1	28	919.6	824.2	428.3(13.82)	515.2(16.62)	0.0	122.23	22.73	6.0	0.897	66.59	66.48	11.00	920.07
545		2	28	918.8	765.2	406.4(14.51)	465.4(16.62)	0.0	121.55	20.43	6.0	0.897	66.45	66.45	11.00	919.18
546		3	31	917.8	684.7	435.3(14.04)	515.2(16.62)	0.0	120.68	22.51	6.0	0.896	66.30	66.30	11.00	918.30
547		4	30	921.6	1001.4	319.9(12.53)	498.6(16.62)	0.0	121.97	21.95	6.0	0.897	66.53	66.48	11.00	919.70
548		5	31	926.3	1413.8	1460.6(43.57)	1240.0(40.00)	0.0	125.00	55.52	14.3	0.895	67.00	67.00	11.00	923.97
549		6	30	930.0	1736.1	1486.8(49.56)	1140.0(38.00)	12.1	125.00	51.04	13.6	0.896	67.00	67.00	11.00	928.16
550		7	31	928.9	1638.1	454.0(14.00)	515.2(16.62)	0.0	122.31	22.75	6.0	0.897	67.00	66.48	11.00	928.44
551		8	31	927.7	1538.0	431.1(13.91)	515.2(16.62)	0.0	123.43	22.96	6.0	0.899	67.00	66.48	11.00	928.31
552		9	30	926.1	1396.2	368.9(12.30)	498.6(16.62)	0.0	124.66	22.44	6.0	0.899	66.66	66.48	11.00	926.93
						641.5(21.09)	619.4(20.35)	1.0	123.17	27.55		0.898	2030.	2024.	11.00	923.40
553	1986	10	31	924.7	1267.5	392.4(12.66)	515.2(16.62)	0.0	124.37	23.15	6.0	0.899	66.82	66.48	11.00	925.39
554		11	30	923.9	1203.2	435.5(14.52)	498.6(16.62)	0.0	123.25	22.18	6.0	0.899	67.00	66.48	11.00	924.28
555		12	31	922.4	1067.7	422.5(13.63)	558.0(18.00)	0.0	125.00	24.99	6.4	0.897	67.00	67.00	11.00	923.14
556		1	31	921.7	1012.1	459.6(14.82)	515.2(16.62)	0.0	122.12	22.71	6.0	0.897	66.56	66.48	11.00	922.05
557		2	28	924.5	1237.9	711.1(25.40)	465.4(16.62)	0.0	124.32	20.89	6.0	0.899	66.84	66.48	11.00	923.14
558		3	31	928.6	1437.8	1482.6(47.83)	1302.0(42.00)	0.0	125.00	59.10	15.3	0.899	66.09	66.09	11.00	923.57
559		4	30	922.5	1077.8	1622.5(54.08)	1977.1(65.90)	0.0	125.00	89.32	23.8	0.899	66.41	66.41	11.00	924.54
560		5	31	928.6	1699.4	2645.4(85.33)	2015.4(65.01)	0.0	125.00	91.69	23.7	0.899	65.94	65.94	11.00	926.03
561		6	30	929.8	1722.2	1175.8(39.19)	1140.0(38.00)	0.0	125.00	51.04	13.6	0.897	67.00	67.00	11.00	928.71
562		7	31	930.0	1736.1	1546.4(47.83)	2015.4(65.01)	0.5	123.19	22.91	6.0	0.898	67.00	66.48	11.00	929.92
563		8	31	928.2	1580.8	376.2(12.14)	515.2(16.62)	0.0	124.23	23.11	6.0	0.899	66.89	66.48	11.00	929.11
564		9	30	927.0	1477.1	407.1(13.57)	498.6(16.62)	0.0	124.82	22.47	6.0	0.899	66.58	66.48	11.00	927.64
						889.8(29.23)	876.3(28.77)	0.0	124.27	39.46		0.899	2032.	2022.	11.00	925.88
565	1987	10	31	925.9	1380.5	424.6(13.70)	515.2(16.62)	0.0	125.00	23.31	6.0	0.899	66.31	66.31	11.00	926.49
566		11	30	925.0	1299.0	418.3(13.94)	498.6(16.62)	0.0	125.00	22.58	6.0	0.899	66.23	66.23	11.00	925.48
567		12	31	923.9	1204.7	420.9(13.58)	515.2(16.62)	0.0	125.00	23.27	6.0	0.899	66.43	66.43	11.00	924.47
568		1	31	922.8	1107.9	418.4(13.50)	515.2(16.62)	0.0	124.46	23.15	6.0	0.899	66.77	66.48	11.00	923.38
569		2	29	922.6	1084.5	428.4(13.81)	482.0(16.62)	0.0	124.06	21.59	6.0	0.899	66.98	66.48	11.00	922.69
570		3	31	929.3	1678.7	1483.0(47.19)	868.0(28.00)	0.0	125.00	39.47	10.2	0.899	65.97	65.97	11.00	925.95
571		4	30	930.0	1736.0	1622.9(54.10)	1560.0(52.00)	0.0	125.00	72.17	19.2	0.899	64.85	64.85	11.00	929.67
572		5	31	929.5	1690.5	1948.2(62.84)	1984.0(67.00)	0.0	125.00	91.81	23.7	0.899	64.83	64.83	11.00	928.74
573		6	30	929.7	1709.9	2042.4(68.08)	2010.0(67.00)	0.0	125.00	90.00	23.0	0.898	67.00	67.00	11.00	929.59
574		7	31	929.9	1723.7	1394.6(44.99)	1364.0(44.00)	0.0	125.00	61.07	15.8	0.897	67.00	67.00	11.00	929.78
575		8	31	928.9	1633.7	445.5(14.51)	515.2(16.62)	0.0	122.33	22.75	6.0	0.897	67.00	66.48	11.00	929.36
576		9	30	927.9	1552.9	428.1(14.27)	498.6(16.62)	0.0	121.91	21.94	6.0	0.897	67.00	66.48	11.00	928.38
						956.9(31.36)	943.8(30.94)	0.0	124.40	42.76		0.899	2034.	2019.	11.00	927.08

Ayvali Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H	S	GIN	Q0	ROUT	P	E	T	ETG	QCR	GUP	LOSS	SULL
				(M)	(M3/SD)	(M3/SD)	(M3/SD)	(M3/SD)	(MW)	(GMH)	(H)		(M3/S)	(M3/S)	(M)	(M)
577	1988	10	31	926.7	1446.1	457.4	(14.75)	558.0	0.0	24.99	6.4	0.896	67.00	67.00	11.00	927.30
578		11	30	925.4	1332.5	427.6	(14.25)	560.0	0.0	24.18	6.4	0.894	67.00	67.00	11.00	926.04
579		12	31	923.9	1204.4	429.9	(13.87)	558.0	0.0	24.99	6.4	0.893	67.00	67.00	11.00	924.66
580		1	31	922.4	1068.0	421.6	(13.60)	558.0	0.0	24.99	6.4	0.892	67.00	67.00	11.00	923.15
581		2	28	921.4	981.0	378.3	(13.51)	465.4	0.0	117.29	6.1	0.893	65.75	65.75	11.00	921.88
582		3	31	920.8	933.0	467.8	(15.09)	535.2	0.0	118.05	6.1	0.894	65.87	65.87	11.00	921.11
583		4	30	929.4	1685.3	1417.2	(47.24)	660.0	0.0	25.55	7.9	0.895	67.00	67.00	11.00	925.13
584		5	31	929.7	1712.1	594.3	(19.17)	558.0	0.0	24.99	6.4	0.897	67.00	67.00	11.00	929.57
585		6	30	928.4	1594.6	394.3	(13.14)	498.6	0.0	122.53	6.0	0.898	67.00	66.48	11.00	929.05
586		7	31	926.8	1458.7	393.6	(12.76)	515.2	0.0	124.03	6.0	0.899	67.00	66.48	11.00	927.61
587		8	31	925.3	1321.9	393.9	(12.71)	515.2	0.0	125.00	6.0	0.899	66.98	66.08	11.00	926.05
588		9	30	923.9	1202.0	390.2	(13.01)	498.6	0.0	125.00	6.0	0.899	66.39	66.39	11.00	924.59
				514.0	(16.93)	536.7	(17.64)	0.0	123.49	23.90		0.896	2026.	2026.	11.00	925.51
589	1989	10	31	922.9	1112.3	431.2	(13.91)	515.2	0.0	124.47	6.0	0.899	66.76	66.48	11.00	923.39
590		11	30	921.9	1028.2	415.7	(13.86)	498.6	0.0	123.86	6.0	0.899	66.96	66.48	11.00	922.40
591		12	31	920.9	942.5	429.5	(13.85)	515.2	0.0	123.18	6.0	0.898	66.80	66.48	11.00	921.43
592		1	31	919.8	840.2	412.9	(13.32)	515.2	0.0	122.42	6.0	0.898	66.63	66.48	11.00	920.35
593		2	28	918.6	749.3	376.4	(13.37)	465.4	0.0	121.55	6.0	0.897	66.45	66.45	11.00	919.18
594		3	31	917.9	692.0	458.5	(14.79)	515.2	0.0	120.62	6.0	0.896	66.30	66.30	11.00	918.24
595		4	30	929.3	1673.8	1485.0	(49.50)	498.6	0.0	124.58	6.0	0.899	66.70	66.48	11.00	923.58
596		5	31	930.0	1736.1	1932.5	(62.34)	1860.0	0.7	125.00	22.2	0.899	64.86	64.86	11.00	929.64
597		6	30	930.0	1736.1	849.9	(28.33)	836.7	0.0	125.00	10.0	0.897	67.00	67.00	11.00	930.00
598		7	31	930.0	1736.1	378.6	(12.21)	361.8	0.0	85.81	6.0	0.897	67.00	67.00	11.00	930.00
599		8	31	930.0	1736.1	151.5	(4.89)	135.2	0.0	32.06	6.0	0.897	67.00	17.44	11.00	930.00
600		9	30	930.0	1736.1	179.3	(5.98)	166.8	0.0	40.87	6.0	0.897	67.00	22.24	11.00	930.00
				624.9	(20.53)	573.7	(18.82)	0.1	105.78	25.77		0.898	2026.	1730.	11.00	924.85

N= 1 PMAX= 125.00 E= 409.40 ESUM= 409.42  
 PF100= 32.06 PF95= 113.05 PF90= 118.23  
 EF100= 70.20 EF95= 247.58 EF90= 258.93  
 ES100= 339.20 ES95= 161.85 ES90= 150.47  
 UF = 37.384 (%) QUMAX = 67.000

9315.7(305.97) 9168.8(301.28) 68.8 1469.37 409.42 0.897 24300. 24102. 11.00 925.14

\*\*\* SEMW \*\*\* N= 1

1	125.00	2	125.00	3	125.00	4	125.00	5	135.00	6	125.00	7	125.00	8	125.00	9	125.00	10	125.00
11	125.00	12	125.00	13	125.00	14	125.00	15	135.00	16	125.00	17	125.00	18	125.00	19	125.00	20	125.00
21	125.00	22	125.00	23	125.00	24	125.00	25	135.00	26	125.00	27	125.00	28	125.00	29	125.00	30	125.00
31	125.00	32	125.00	33	125.00	34	125.00	35	135.00	36	125.00	37	125.00	38	125.00	39	125.00	40	125.00
41	125.00	42	125.00	43	125.00	44	125.00	45	135.00	46	125.00	47	125.00	48	125.00	49	125.00	50	125.00
51	125.00	52	125.00	53	125.00	54	125.00	55	135.00	56	125.00	57	125.00	58	125.00	59	125.00	60	125.00
61	125.00	62	125.00	63	125.00	64	125.00	65	135.00	66	125.00	67	125.00	68	125.00	69	125.00	70	125.00
71	125.00	72	125.00	73	125.00	74	125.00	75	135.00	76	125.00	77	125.00	78	125.00	79	125.00	80	125.00
81	125.00	82	125.00	83	125.00	84	125.00	85	135.00	86	125.00	87	125.00	88	125.00	89	125.00	90	125.00
91	125.00	92	125.00	93	125.00	94	125.00	95	135.00	96	125.00	97	125.00	98	125.00	99	125.00	100	125.00
101	125.00	102	125.00	103	125.00	104	125.00	105	135.00	106	125.00	107	125.00	108	125.00	109	125.00	110	125.00
111	125.00	112	125.00	113	125.00	114	125.00	115	135.00	116	125.00	117	125.00	118	125.00	119	125.00	120	125.00
121	125.00	122	125.00	123	125.00	124	125.00	125	135.00	126	125.00	127	125.00	128	125.00	129	125.00	130	125.00
131	125.00	132	125.00	133	125.00	134	125.00	135	135.00	136	125.00	137	125.00	138	125.00	139	125.00	140	125.00
141	125.00	142	125.00	143	125.00	144	125.00	145	135.00	146	125.00	147	125.00	148	125.00	149	125.00	150	125.00
151	125.00	152	125.00	153	125.00	154	125.00	155	135.00	156	125.00	157	125.00	158	125.00	159	125.00	160	125.00
161	125.00	162	125.00	163	125.00	164	125.00	165	135.00	166	125.00	167	125.00	168	125.00	169	125.00	170	125.00

Ayvalli Project

171	125.00	172	125.00	173	125.00	174	125.00	175	125.00	176	125.00	177	125.00	178	125.00	179	125.00	180	125.00
181	125.00	182	125.00	183	125.00	184	125.00	185	125.00	186	125.00	187	125.00	188	125.00	189	125.00	190	125.00
191	125.00	192	125.00	193	125.00	194	125.00	195	125.00	196	125.00	197	125.00	198	125.00	199	125.00	200	125.00
201	125.00	202	125.00	203	125.00	204	125.00	205	125.00	206	125.00	207	125.00	208	125.00	209	125.00	210	125.00
211	125.00	212	125.00	213	125.00	214	125.00	215	125.00	216	125.00	217	125.00	218	125.00	219	125.00	220	125.00
221	125.00	222	125.00	223	125.00	224	125.00	225	125.00	226	125.00	227	125.00	228	125.00	229	125.00	230	125.00
231	125.00	232	125.00	233	125.00	234	125.00	235	125.00	236	125.00	237	125.00	238	125.00	239	125.00	240	125.00
241	125.00	242	125.00	243	125.00	244	125.00	245	125.00	246	125.00	247	125.00	248	125.00	249	125.00	250	125.00
251	125.00	252	125.00	253	125.00	254	125.00	255	125.00	256	125.00	257	125.00	258	125.00	259	125.00	260	125.00
261	125.00	262	125.00	263	125.00	264	125.00	265	125.00	266	125.00	267	125.00	268	125.00	269	125.00	270	125.00
271	125.00	272	125.00	273	125.00	274	125.00	275	125.00	276	125.00	277	125.00	278	125.00	279	125.00	280	125.00
281	125.00	282	125.00	283	125.00	284	125.00	285	125.00	286	125.00	287	125.00	288	125.00	289	125.00	290	125.00
291	125.00	292	125.00	293	125.00	294	125.00	295	125.00	296	125.00	297	125.00	298	125.00	299	125.00	300	125.00
301	125.00	302	125.00	303	125.00	304	125.00	305	125.00	306	125.00	307	124.92	308	124.90	309	124.90	310	124.89
311	124.86	312	124.82	313	124.82	314	124.80	315	124.79	316	124.79	317	124.76	318	124.72	319	124.68	320	124.68
321	124.67	322	124.67	323	124.66	324	124.66	325	124.60	326	124.58	327	124.58	328	124.57	329	124.56	330	124.56
331	124.52	332	124.51	333	124.50	334	124.47	335	124.46	336	124.46	337	124.44	338	124.41	339	124.38	340	124.37
341	124.36	342	124.36	343	124.35	344	124.32	345	124.29	346	124.28	347	124.27	348	124.26	349	124.24	350	124.23
351	124.21	352	124.18	353	124.17	354	124.06	355	124.03	356	124.02	357	123.96	358	123.93	359	123.90	360	123.90
361	123.87	362	123.87	363	123.86	364	123.81	365	123.78	366	123.76	367	123.75	368	123.75	369	123.72	370	123.71
371	123.70	372	123.69	373	123.65	374	123.61	375	123.61	376	123.56	377	123.56	378	123.50	379	123.47	380	123.45
381	123.43	382	123.43	383	123.38	384	123.38	385	123.38	386	123.36	387	123.37	388	123.25	389	123.24	390	123.23
391	123.20	392	123.19	393	123.18	394	123.18	395	123.13	396	123.10	397	123.07	398	123.06	399	123.05	400	123.02
401	123.02	402	123.01	403	123.01	404	123.00	405	122.99	406	122.99	407	122.92	408	122.87	409	122.86	410	122.86
411	122.84	412	122.85	413	122.83	414	122.83	415	122.82	416	122.81	417	122.81	418	122.80	419	122.79	420	122.74
421	122.73	422	122.73	423	122.73	424	122.71	425	122.70	426	122.67	427	122.63	428	122.62	429	122.62	430	122.62
431	122.59	432	122.59	433	122.58	434	122.57	435	122.57	436	122.56	437	122.53	438	122.46	439	122.45	440	122.44
441	122.43	442	122.42	443	122.39	444	122.37	445	122.33	446	122.32	447	122.31	448	122.28	449	122.27	450	122.26
451	122.24	452	122.23	453	122.21	454	122.19	455	122.18	456	122.15	457	122.14	458	122.12	459	122.12	460	122.12
461	122.11	462	122.10	463	122.07	464	122.06	465	122.06	466	122.06	467	122.02	468	122.02	469	122.02	470	122.02
471	122.00	472	122.00	473	121.98	474	121.98	475	121.98	476	121.97	477	121.95	478	121.94	479	121.93	480	121.91
481	121.89	482	121.89	483	121.86	484	121.85	485	121.85	486	121.84	487	121.81	488	121.77	489	121.76	490	121.71
491	121.68	492	121.67	493	121.67	494	121.65	495	121.59	496	121.55	497	121.55	498	121.55	499	121.42	500	121.38
501	121.32	502	121.28	503	121.21	504	121.20	505	121.18	506	121.17	507	121.16	508	121.11	509	121.02	510	120.97
511	120.97	512	120.88	513	120.83	514	120.82	515	120.82	516	120.73	517	120.72	518	120.70	519	120.68	520	120.62
521	120.59	522	120.50	523	120.28	524	120.28	525	119.98	526	119.87	527	119.81	528	119.75	529	119.52	530	119.44
531	119.43	532	119.36	533	119.28	534	119.07	535	118.85	536	118.84	537	118.66	538	118.53	539	118.30	540	118.23
541	118.05	542	118.02	543	117.67	544	117.47	545	117.42	546	117.40	547	117.29	548	117.28	549	116.79	550	116.70
551	116.62	552	116.45	553	115.89	554	115.44	555	115.36	556	115.03	557	115.00	558	114.95	559	114.81	560	114.75
561	114.56	562	114.47	563	114.45	564	113.95	565	113.85	566	113.76	567	113.74	568	113.50	569	113.45	570	113.05
571	112.95	572	112.93	573	112.87	574	112.80	575	112.64	576	112.57	577	112.52	578	112.45	579	112.35	580	112.33
581	112.11	582	111.78	583	111.78	584	111.75	585	111.75	586	111.66	587	111.56	588	111.47	589	111.47	590	111.31
591	111.17	592	108.42	593	105.99	594	104.11	595	100.62	596	85.81	597	85.14	598	40.87	599	39.07	600	32.06



Ayvalli Project

\* MONTHLY INFLOW (10\*\*6 M3) \*

NO. YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1 1940	46.75	42.29	39.41	65.55	115.29	133.35	155.00	211.50	129.80	67.05	39.70	36.40	1082.08
2 1941	40.50	52.45	43.35	79.70	118.57	132.93	145.22	291.22	241.42	90.43	43.88	38.14	1317.81
3 1942	40.75	39.47	39.74	39.74	34.81	39.12	33.35	167.21	107.26	57.15	38.67	35.23	7773.55
4 1943	37.90	37.77	38.27	37.81	85.81	132.77	143.07	207.95	166.45	83.97	43.90	38.10	1051.77
5 1944	39.79	39.22	38.42	38.22	34.00	51.96	130.67	171.46	162.30	67.60	38.86	35.92	848.43
6 1945	37.95	37.26	38.00	37.74	34.03	134.64	134.51	181.67	221.08	113.73	77.51	48.86	1086.98
7 1946	67.28	55.15	43.90	43.35	38.96	70.59	139.48	126.59	100.81	57.33	37.44	36.58	805.47
8 1947	58.50	40.38	38.97	38.25	40.38	132.70	133.58	179.93	192.23	74.05	47.67	42.65	1007.92
9 1948	38.75	37.10	37.53	37.26	33.78	86.26	148.09	185.66	146.76	64.32	39.00	36.08	890.59
10 1949	41.64	38.90	39.05	38.80	34.64	100.81	146.19	176.64	151.91	70.75	59.84	39.67	921.85
11 1950	73.89	52.12	43.77	69.53	131.13	133.27	187.79	161.52	97.69	50.41	38.94	38.94	1183.25
12 1951	39.56	38.31	39.57	39.05	45.00	133.93	140.05	186.48	158.14	87.43	50.50	38.30	8799.32
13 1952	39.08	38.42	38.98	38.63	90.72	135.42	133.65	192.13	241.84	189.99	70.43	51.15	1260.45
14 1953	41.93	42.00	39.74	38.72	34.50	39.32	102.78	183.27	101.47	36.87	40.40	37.81	708.58
15 1954	36.52	35.69	37.50	36.99	35.16	61.89	140.51	164.71	145.95	70.75	38.55	37.27	849.97
16 1955	40.13	37.90	38.77	38.38	35.16	61.89	140.51	164.71	145.95	70.75	38.55	37.27	849.97
17 1956	38.85	37.18	37.97	38.06	34.58	39.66	137.57	146.52	146.52	60.68	38.48	37.40	706.29
18 1957	39.60	39.55	39.21	38.56	38.89	39.78	137.57	146.52	146.52	60.68	38.48	37.40	706.29
19 1958	38.85	37.18	37.97	38.06	34.58	39.66	137.57	146.52	146.52	60.68	38.48	37.40	706.29
20 1959	50.03	48.78	40.05	39.41	37.36	119.50	150.45	173.96	139.46	90.59	54.38	39.05	982.02
21 1960	36.52	35.68	36.90	36.16	32.46	36.16	39.40	50.56	39.73	32.67	31.60	30.67	438.50
22 1961	33.88	33.93	35.75	35.09	31.76	38.27	47.51	65.35	48.45	40.15	35.45	33.66	479.24
23 1962	34.76	34.24	35.11	35.38	31.82	56.72	149.69	226.26	284.60	153.09	103.81	38.17	1183.65
24 1963	51.73	48.78	39.20	40.35	17.28	127.70	146.00	194.19	190.22	67.14	37.24	59.62	1093.44
25 1964	36.96	35.65	36.84	35.71	32.15	41.50	59.66	153.23	118.09	52.42	35.17	35.84	720.90
26 1965	40.49	36.93	37.78	37.76	34.33	39.12	143.07	169.41	74.75	37.26	35.17	35.84	720.90
27 1966	37.04	35.45	35.91	35.66	31.66	36.05	41.49	104.19	104.19	117.34	50.89	36.94	712.94
28 1967	38.64	37.53	38.30	37.64	105.00	130.12	210.55	460.82	246.92	83.66	40.31	37.66	1467.16
29 1968	39.27	39.03	38.08	36.62	64.18	136.75	155.83	197.02	77.96	36.95	36.76	35.31	891.76
30 1969	36.87	36.87	37.56	36.57	32.76	38.25	61.86	92.81	38.67	38.08	35.08	34.63	522.21
31 1970	36.40	34.84	35.09	35.01	31.08	37.01	44.24	86.39	100.66	33.80	41.34	33.71	551.57
32 1971	36.18	35.42	36.44	35.72	33.78	37.15	58.03	139.04	139.62	47.27	36.66	37.27	672.37
33 1972	38.99	37.40	37.26	37.01	34.27	38.36	57.62	159.02	143.46	42.43	34.84	34.54	695.18
34 1973	38.31	36.85	36.10	35.22	31.84	37.68	41.46	96.34	57.09	35.52	37.29	37.29	518.94
35 1974	35.23	34.34	36.18	35.91	31.71	36.73	48.76	53.73	44.29	36.95	34.18	34.12	462.12
36 1975	36.87	35.47	34.59	35.05	32.85	39.66	101.76	193.27	148.23	67.60	38.03	36.77	800.14
37 1976	38.87	37.21	38.00	36.71	33.57	60.09	137.57	159.26	86.49	37.74	35.57	35.58	736.88
38 1977	37.35	35.93	36.52	36.49	34.09	85.54	138.00	173.62	107.59	36.44	34.97	34.40	790.94
39 1978	36.44	35.61	36.59	36.44	33.44	37.75	49.16	139.17	137.02	55.03	35.53	34.30	666.49
40 1979	38.68	39.78	38.59	37.60	34.97	96.32	152.16	148.68	36.62	34.71	35.62	34.23	727.95
41 1980	36.21	35.02	35.97	35.78	32.47	36.65	43.47	90.88	148.65	37.10	35.78	34.59	602.56
42 1981	36.28	35.83	35.51	37.81	34.51	38.21	72.97	182.75	57.69	15.68	23.36	34.36	604.96
43 1982	35.95	34.55	35.01	35.41	33.51	38.26	45.11	40.09	39.51	31.37	31.55	36.77	435.09
44 1983	36.22	37.95	36.97	36.48	33.86	38.05	76.92	171.08	80.59	38.33	39.35	36.35	662.15
45 1984	36.11	36.07	35.51	36.41	36.41	39.61	93.17	116.61	33.17	35.63	34.37	34.78	569.04
46 1985	36.01	36.27	35.71	37.01	35.11	37.61	70.84	128.46	128.46	37.50	37.25	31.87	665.10
47 1986	33.91	37.62	36.51	39.71	61.44	128.10	140.19	228.56	101.59	47.21	32.51	35.17	922.51
48 1987	36.69	36.14	36.37	36.15	126.40	140.22	168.32	176.46	120.49	38.32	36.98	36.98	992.15
49 1988	39.52	36.94	37.15	36.43	52.69	40.42	122.45	51.34	34.06	34.18	34.04	33.71	532.92
50 1989	37.26	35.91	37.11	35.68	32.35	39.62	128.31	166.96	73.44	32.71	13.09	15.50	647.93
TOTAL	1993.60	1927.03	1889.60	1968.77	2302.14	3539.82	5402.73	8050.84	6252.21	3074.56	2030.92	1811.65	40243.90
AVE	39.87	38.54	37.79	39.37	46.04	70.80	108.05	161.02	125.04	61.49	40.62	36.23	804.88
MAX	73.89	55.15	43.90	79.70	123.18	135.42	210.55	460.82	284.60	189.99	103.81	51.15	1467.16
MIN	33.88	33.93	34.59	35.01	31.08	36.05	39.40	40.09	33.17	15.68	13.09	15.50	435.09

Ayvalli Project

\* MONTHLY OUTFLOW (10\*\*6 M3) \*

NO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	48.21	51.84	48.21	48.21	116.12	155.35	165.89	173.35	165.89	48.21	48.21	46.66	1116.15
2	1941	48.21	46.66	64.28	58.92	161.56	176.05	165.19	175.77	205.27	91.07	48.21	46.66	1287.84
3	1942	48.21	46.66	48.21	48.21	43.55	44.51	114.05	176.77	57.02	53.57	48.21	46.66	775.63
4	1943	48.21	46.66	48.21	44.51	41.64	128.56	165.89	171.42	165.89	80.35	44.51	43.08	1028.94
5	1944	44.51	43.08	44.51	44.51	40.21	44.51	103.68	171.42	160.70	64.28	44.51	43.08	849.02
6	1945	44.51	43.08	44.51	44.51	40.21	91.07	169.52	179.45	173.66	169.99	48.21	51.84	1080.58
7	1946	53.57	51.84	44.51	44.51	40.21	69.64	171.07	133.92	46.66	53.57	44.51	43.08	797.09
8	1947	44.51	43.08	44.51	44.51	41.64	107.14	155.52	176.77	173.66	69.64	44.51	43.08	988.59
9	1948	44.51	43.08	44.51	44.51	40.21	44.51	114.05	174.04	139.97	44.51	44.51	43.08	821.51
10	1949	44.51	43.08	44.51	44.51	40.21	44.51	145.15	176.77	155.52	53.57	44.51	43.08	879.95
11	1950	44.51	43.08	44.51	44.51	40.21	58.92	145.15	176.77	173.66	58.92	48.21	46.66	925.14
12	1951	48.21	51.84	44.51	69.64	120.27	133.92	173.66	179.45	171.07	69.64	48.21	43.08	1153.51
13	1952	44.51	43.08	44.51	44.51	40.21	112.49	150.34	176.77	173.66	69.64	48.21	43.08	991.03
14	1953	44.51	43.08	44.51	44.51	72.58	176.77	172.24	175.68	173.66	179.45	69.64	51.84	1248.49
15	1954	44.51	43.08	44.51	44.51	40.21	44.51	77.76	166.06	93.31	44.51	44.51	43.08	730.59
16	1955	44.51	43.08	44.51	44.51	41.64	44.51	43.08	44.51	155.52	69.64	44.51	43.08	663.13
17	1956	44.51	43.08	44.51	44.51	40.21	44.51	119.23	166.06	155.52	53.86	44.51	43.08	843.61
18	1957	44.51	43.08	44.51	44.51	40.21	44.51	43.08	166.06	93.31	48.21	44.51	43.08	699.60
19	1958	44.51	43.08	44.51	44.51	40.21	44.51	88.13	171.42	150.34	53.57	48.21	46.66	819.66
20	1959	44.51	43.08	44.51	44.51	41.64	107.14	150.34	171.42	150.34	53.57	48.21	46.66	819.66
21	1960	35.97	35.57	36.90	44.51	40.21	44.45	42.61	43.73	41.99	43.14	43.21	42.11	491.39
22	1961	44.09	42.99	44.51	44.51	40.21	44.51	42.70	43.88	42.15	43.32	43.37	42.22	518.37
23	1962	44.51	43.08	44.51	44.51	40.21	44.51	161.50	174.83	184.58	160.70	96.42	46.66	1085.53
24	1963	44.51	43.08	44.51	44.51	110.25	133.92	171.07	179.45	173.66	64.28	44.51	43.08	1096.85
25	1964	44.51	43.08	44.51	44.51	40.21	44.51	43.08	144.63	77.76	53.57	44.51	43.08	667.98
26	1965	44.51	43.08	44.51	44.51	40.21	44.51	88.13	179.45	62.21	44.51	44.51	43.08	723.24
27	1966	44.51	43.08	44.51	44.51	40.21	44.51	172.86	166.77	245.78	85.71	44.51	46.66	689.60
28	1967	48.21	46.66	48.21	48.21	43.55	107.14	165.89	176.77	77.76	44.51	44.51	46.66	1467.07
29	1968	48.21	46.66	48.21	48.21	43.55	107.14	165.89	176.77	77.76	44.51	44.51	43.08	894.50
30	1969	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	43.08	44.51	44.51	43.08	524.13
31	1970	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	51.84	44.51	48.21	46.66	540.16
32	1971	48.21	46.66	44.51	44.51	41.64	44.51	43.08	85.71	119.23	48.21	48.21	46.66	661.15
33	1972	48.21	46.66	48.21	44.51	40.21	44.51	43.08	101.78	135.08	44.51	44.51	43.08	684.36
34	1973	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	46.66	46.97	45.18	42.08	527.82
35	1974	44.01	42.98	44.51	44.51	40.21	44.46	42.68	43.84	42.13	43.30	43.35	42.21	518.21
36	1975	44.09	42.99	44.51	44.51	41.64	44.47	43.08	107.14	145.15	64.28	44.51	43.08	709.47
37	1976	48.21	46.66	44.51	44.51	40.21	44.51	108.86	179.45	57.70	44.51	48.21	46.66	746.75
38	1977	48.21	46.66	44.51	44.51	40.21	44.51	103.68	171.42	103.99	44.51	48.21	46.66	787.09
39	1978	48.21	46.66	44.51	44.51	40.21	44.51	43.08	64.28	189.60	53.57	44.51	43.08	646.74
40	1979	44.51	43.08	44.51	44.51	41.64	44.51	145.15	145.05	43.08	48.21	48.21	46.66	746.54
41	1980	48.21	43.08	44.51	44.51	40.21	44.51	43.08	44.51	93.61	44.51	48.21	46.66	581.93
42	1981	48.21	46.66	44.51	44.51	40.21	44.46	43.08	133.92	47.27	14.23	30.93	42.02	580.07
43	1982	43.99	42.99	44.51	44.51	40.21	44.46	43.08	43.81	42.12	43.30	42.23	43.08	518.14
44	1983	44.09	42.99	44.51	44.51	41.64	44.47	43.08	61.07	72.58	44.51	44.51	43.08	574.28
45	1984	44.51	46.66	48.21	44.51	40.21	44.51	46.66	91.07	43.08	44.51	44.51	43.08	581.53
46	1985	44.51	43.08	44.51	44.51	40.21	44.51	112.49	107.14	99.54	44.51	44.51	43.08	643.21
47	1986	44.51	43.08	48.21	44.51	40.21	112.49	170.82	174.13	98.50	44.56	44.51	43.08	908.62
48	1987	44.51	43.08	44.51	44.51	41.64	75.00	134.78	171.42	173.66	117.85	44.51	43.08	978.57
49	1988	48.21	46.66	48.21	48.21	40.21	44.51	57.02	48.21	43.08	44.51	44.51	43.08	556.43
50	1989	44.51	43.08	44.51	44.51	40.21	44.51	43.08	160.76	72.29	31.26	11.68	14.41	594.84
TOTAL		2271.52	2215.09	2274.86	2384.44	2224.83	3431.65	4927.06	6772.72	5696.68	3014.70	2310.76	2182.15	39906.51
AVE		45.43	44.30	45.50	45.69	46.63	68.63	98.54	135.45	113.93	60.29	46.22	43.64	798.13
MAX		53.57	51.84	64.28	69.64	161.56	176.77	173.66	358.16	245.78	179.45	96.42	51.84	1467.07
MIN		35.97	35.57	36.90	41.50	40.21	44.45	42.61	43.73	41.99	43.14	43.21	42.11	491.39

Aywali Project

\* MONTHLY QO (10\*\*6 M3) \*

NO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	48.21	51.84	48.21	48.21	116.12	155.35	165.89	172.97	185.89	48.21	48.21	46.66	1115.76
2	1941	48.21	46.66	64.28	58.92	161.56	176.05	165.19	175.77	173.66	91.07	48.21	46.66	1256.24
3	1942	48.21	46.66	48.21	48.21	43.55	44.51	114.05	176.77	57.02	53.57	48.21	46.66	775.63
4	1943	48.21	46.66	48.21	44.51	41.64	128.56	165.89	171.42	155.89	80.35	44.51	43.08	1028.94
5	1944	44.51	43.08	44.51	44.51	40.21	44.51	103.68	171.42	160.70	64.28	44.51	43.08	849.02
6	1945	44.51	43.08	44.51	44.51	40.21	91.07	169.52	179.45	173.66	149.99	48.21	51.84	1080.58
7	1946	53.57	51.84	44.51	44.51	40.21	69.64	171.07	133.92	46.66	53.57	44.51	43.08	797.09
8	1947	44.51	43.08	44.51	44.51	41.64	107.14	155.52	176.77	173.66	69.64	44.51	43.08	982.59
9	1948	44.51	43.08	44.51	44.51	40.21	44.51	114.05	173.89	139.97	44.51	44.51	43.08	821.56
10	1949	44.51	43.08	44.51	44.51	40.21	44.51	145.15	176.77	155.52	53.57	44.51	43.08	879.95
11	1950	44.51	43.08	44.51	44.51	40.21	58.92	145.15	176.77	173.66	58.92	48.21	46.66	925.14
12	1951	48.21	51.84	44.51	69.64	120.27	133.92	173.66	179.45	171.07	69.64	48.21	43.08	1153.51
13	1952	44.51	43.08	44.51	44.51	40.21	112.42	150.34	176.77	173.66	69.64	48.21	43.08	991.03
14	1953	44.51	43.08	44.51	44.51	72.58	176.77	172.24	175.68	173.66	179.45	69.64	51.84	1248.49
15	1954	44.51	43.08	44.51	44.51	40.21	44.51	77.76	166.06	93.31	44.51	44.51	43.08	730.59
16	1955	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	155.52	69.64	44.51	43.08	663.13
17	1956	44.51	43.08	44.51	44.51	40.21	44.51	119.23	166.06	155.52	53.57	44.51	43.08	843.32
18	1957	44.51	43.08	44.51	44.51	40.21	44.51	43.08	166.06	93.31	48.21	44.51	43.08	699.60
19	1958	44.51	43.08	44.51	44.51	40.21	44.51	88.13	171.42	150.34	53.57	48.21	46.66	819.66
20	1959	44.51	43.08	44.51	44.51	40.21	107.14	150.34	171.42	173.66	53.57	49.57	37.97	961.99
21	1960	35.97	35.57	36.90	41.50	40.21	44.45	42.61	43.73	41.99	43.14	43.21	42.11	491.39
22	1961	44.04	42.98	44.51	44.51	40.21	44.47	42.70	43.88	42.15	43.32	43.37	42.22	518.37
23	1962	44.09	42.99	44.51	44.51	40.21	44.51	161.50	174.83	173.66	160.70	96.42	46.66	1074.61
24	1963	44.51	43.08	44.51	44.51	110.25	133.92	171.07	179.45	173.66	64.28	44.51	43.08	1096.85
25	1964	44.51	43.08	44.51	44.51	40.21	44.51	43.08	144.63	77.76	53.57	44.51	43.08	667.98
26	1965	44.51	43.08	44.51	44.51	40.21	44.51	88.13	179.45	62.21	44.51	44.51	43.08	723.24
27	1966	44.51	43.08	44.51	44.51	40.21	44.51	43.08	96.42	129.60	64.28	48.21	46.66	689.60
28	1967	48.21	46.66	48.21	48.21	155.35	172.86	166.75	179.45	173.66	85.71	44.51	46.66	1216.24
29	1968	48.21	46.66	48.21	48.21	43.55	107.14	165.89	176.77	77.76	44.51	44.51	46.66	894.50
30	1969	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	43.08	44.51	44.51	43.08	524.13
31	1970	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	51.84	44.51	48.21	46.66	540.16
32	1971	48.21	46.66	44.51	44.51	41.64	44.51	43.08	85.71	119.23	48.21	48.21	46.66	661.15
33	1972	48.21	46.66	48.21	44.51	40.21	44.51	43.08	101.78	134.78	44.51	44.51	43.08	684.07
34	1973	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	46.66	46.97	43.18	42.08	527.82
35	1974	44.01	42.98	44.51	44.51	40.21	44.46	42.88	43.84	42.13	43.30	43.35	42.21	518.21
36	1975	44.09	42.99	44.51	44.51	41.64	44.47	43.08	107.14	145.15	64.28	44.51	43.08	709.47
37	1976	44.51	43.08	44.51	44.51	40.21	44.51	108.86	179.45	57.02	44.51	48.21	46.66	746.07
38	1977	48.21	46.66	44.51	44.51	40.21	44.51	103.68	171.42	103.68	44.51	48.21	46.66	786.78
39	1978	48.21	46.66	44.51	44.51	40.21	44.51	43.08	64.28	129.60	53.57	44.51	43.08	646.74
40	1979	44.51	43.08	48.21	48.21	41.64	44.51	145.15	144.63	43.08	48.21	48.21	46.66	746.12
41	1980	44.51	43.08	44.51	44.51	40.21	44.51	43.08	44.51	93.31	44.51	48.21	46.66	581.63
42	1981	48.21	46.66	44.51	44.51	40.21	44.51	43.08	133.92	47.27	14.23	30.93	42.02	580.07
43	1982	43.99	42.97	44.51	44.51	40.21	44.46	42.66	43.81	42.12	43.30	43.37	42.23	518.14
44	1983	44.09	42.99	44.51	44.51	41.64	44.47	43.08	64.28	72.58	44.51	44.51	43.08	574.28
45	1984	44.51	46.66	48.21	44.51	40.21	44.51	46.66	91.07	43.08	44.51	44.51	43.08	581.53
46	1985	44.51	43.08	44.51	44.51	40.21	44.51	43.08	107.14	98.50	44.51	44.51	43.08	642.17
47	1986	44.51	43.08	48.21	44.51	40.21	112.49	170.82	174.13	98.50	44.51	44.51	43.08	908.57
48	1987	44.51	43.08	44.51	44.51	41.64	75.00	134.78	171.42	173.66	117.85	44.51	43.08	978.57
49	1988	48.21	46.66	48.21	48.21	40.21	44.51	57.02	48.21	43.08	44.51	44.51	43.08	556.43
50	1989	44.51	43.08	44.51	44.51	40.21	44.51	43.08	160.70	72.29	31.26	11.68	14.41	594.78
TOTAL		2271.52	2215.09	2274.86	2284.44	2324.83	3431.45	4927.06	6593.00	5579.42	3014.37	2310.76	2182.15	39609.20
AVE		45.43	44.30	45.50	45.89	50.50	68.63	98.54	131.86	111.59	60.89	46.22	43.64	792.18
MAX		53.57	51.84	64.28	69.64	161.56	176.77	173.66	179.45	173.66	179.45	96.42	51.84	1256.24
MIN		35.97	35.57	36.90	41.50	40.21	44.45	42.61	43.73	41.99	44.23	11.68	14.41	491.39

\* MONTHLY OUT (10\*\*6 M3) \*

Ayyavali Project

MO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.39
2	1941	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.60	0.0	0.0	0.0	31.60
3	1942	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1943	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1944	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1945	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1947	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1948	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.15
10	1949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.29
19	1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.92	0.0	0.0	0.0	10.92
24	1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1967	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.71	72.12	0.0	0.0	0.0	250.83
29	1968	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1969	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	1970	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	1971	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.30
35	1974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.68
39	1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.31
40	1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.42
42	1981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.30
43	1982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00
44	1983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04	0.0	0.0	0.0	1.04
47	1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.04
48	1987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	1988	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	1989	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.00	0.0	0.00	0.0	0.06
TOTAL		0.0	0.0	0.0	0.0	0.0	0.0	0.0	179.73	117.26	0.33	0.00	0.0	297.32
AVE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.59	2.35	0.01	0.00	0.0	5.95
MAX		0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.71	72.12	0.29	0.00	0.0	250.83
MIN		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0

Yusufeli Project

גורמים : OLTU RIVER YUSUFELI PROJECT

גורם א' א' (HMAX) : 710.00  
 גורם א' א' (HMIN) : 670.00  
 גורם ב' א' (HNWL) : 686.67  
 גורם ב' א' (HTWL) : 500.40  
 גורם ג' א' (QMAX) : 321.00  
 גורם ג' א' (QMIN) : 80.25

גורם א' א' (VMAX) : 0.10800E+10  
 גורם א' א' (VMIN) : 0.0  
 גורם א' א' (SMAX) : 12500.00  
 גורם א' א' (SMIN) : 0.0

\* KST = 1  
 \* KMAX = 600  
 \* DELTS = 250.00  
 \* DELTG = 10.00

\* NP = 1  
 \* NDAN = 1  
 \* TPEAK = 6.00  
 \* QMAX = 321.00  
 \* QMIN = 80.25  
 \* TPEAK = 0.0  
 \* QMAX = 0.0  
 \* QMIN = 0.0

\* WZN = 0.013  
 \* WZD = 5.200  
 \* WZL = 9100.0  
 \* TZN = 0.012  
 \* TZD = 4.100  
 \* TZL = 380.0  
 \* HLOSS = 5.50

\* MET = 2  
 \* MEG = 2  
 \* MEH = 3

גורם א' א' ( EATERT ) 0.0 1.00000 1.00000 1.00000

גורם א' א' ( EATERG ) 0.0 1.00000 1.00000 1.00000

גורם א' א' ( EATERH ) 0.86020 0.88800 1.00000 0.90000 1.06987 0.90000

\* RANK = 3  
 1 -9999.00 -9999.00 0.18244500+01 -0.22081970+04 0.66049610+06  
 2 690.00 5461.11 0.24270500+01 -0.30459260+04 0.95163120+06  
 3 9999.00 9999.00 0.0 0.0 0.0

\* RARE = 2  
 1 -9999.00 -9999.00 0.0 0.0 0.10000000+03  
 2 9999.00 9999.00 0.0 0.0 0.0

\* EM = 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Yusufeli Project

表10 : DLTU RIVER YUSUFELI 1940-1968 年-2

NO.	年	10月	11月	12月	1月	2月	3月	4月	5月	6月	7月	8月	9月
1	1940	76.62 (31)	81.91 (30)	80.89 (31)	67.45 (31)	53.96 (28)	90.87 (31)	374.48 (30)	675.97 (31)	240.79 (30)	104.24 (31)	59.75 (31)	43.86 (30)
2	1941	69.19 (31)	129.35 (30)	93.26 (31)	56.71 (31)	72.24 (28)	103.69 (31)	476.07 (30)	506.42 (31)	239.61 (30)	115.60 (31)	62.48 (31)	52.47 (30)
3	1942	54.29 (31)	64.45 (30)	60.77 (31)	47.19 (31)	44.14 (28)	52.37 (31)	164.77 (30)	238.05 (31)	162.40 (30)	85.40 (31)	53.46 (31)	42.99 (30)
4	1943	42.20 (31)	46.48 (30)	44.46 (31)	39.20 (31)	44.47 (29)	94.71 (31)	181.71 (30)	540.38 (31)	287.10 (30)	158.45 (31)	60.15 (31)	48.14 (30)
5	1944	40.28 (31)	46.24 (30)	33.43 (31)	30.15 (31)	29.68 (28)	36.00 (31)	122.25 (30)	223.90 (31)	191.71 (30)	82.51 (31)	41.51 (31)	33.05 (30)
6	1945	33.11 (31)	33.27 (30)	31.35 (31)	28.15 (31)	30.57 (28)	47.22 (31)	148.68 (30)	244.02 (31)	223.34 (30)	106.30 (31)	66.20 (31)	43.16 (30)
7	1946	59.20 (31)	46.11 (30)	36.45 (31)	35.78 (31)	40.28 (28)	101.13 (31)	150.53 (30)	118.12 (31)	101.73 (30)	50.68 (31)	33.11 (31)	30.28 (30)
8	1947	33.42 (31)	59.59 (30)	36.60 (31)	34.69 (31)	34.81 (29)	36.15 (31)	159.14 (30)	240.86 (31)	231.72 (30)	72.56 (31)	42.79 (31)	41.53 (30)
9	1948	36.52 (31)	33.76 (30)	28.66 (31)	27.62 (31)	27.44 (28)	43.05 (31)	99.54 (30)	227.15 (31)	137.39 (30)	47.21 (31)	34.75 (31)	31.85 (30)
10	1949	31.01 (31)	29.12 (30)	26.70 (31)	25.34 (31)	28.43 (28)	56.55 (31)	195.32 (30)	241.53 (31)	141.90 (30)	76.06 (31)	39.25 (31)	29.45 (30)
11	1950	46.12 (31)	39.89 (30)	33.86 (31)	31.56 (31)	32.10 (28)	45.41 (31)	154.49 (30)	191.34 (31)	174.80 (30)	73.04 (31)	42.73 (31)	44.61 (30)
12	1951	70.46 (31)	55.55 (30)	40.89 (31)	37.69 (31)	44.30 (28)	53.30 (31)	208.43 (30)	227.93 (31)	178.63 (30)	100.58 (31)	47.51 (31)	36.68 (30)
13	1952	30.66 (31)	29.95 (30)	27.39 (31)	25.39 (31)	29.31 (28)	33.85 (31)	144.71 (30)	235.10 (31)	187.64 (30)	87.38 (31)	49.04 (31)	46.32 (30)
14	1953	36.40 (31)	37.28 (30)	29.84 (31)	30.09 (31)	36.40 (28)	61.60 (31)	203.41 (30)	319.24 (31)	256.50 (30)	132.99 (31)	57.93 (31)	44.54 (30)
15	1954	37.05 (31)	34.50 (30)	31.37 (31)	26.21 (31)	29.20 (28)	38.90 (31)	86.23 (30)	141.36 (31)	90.32 (30)	32.74 (31)	23.27 (31)	23.14 (30)
16	1955	22.08 (31)	22.90 (30)	24.46 (31)	22.70 (31)	33.86 (29)	40.84 (31)	151.18 (30)	188.66 (31)	181.16 (30)	81.80 (31)	38.64 (31)	32.61 (30)
17	1956	27.84 (31)	26.48 (30)	23.69 (31)	20.35 (31)	30.64 (28)	74.77 (31)	157.75 (30)	227.13 (31)	204.79 (30)	84.24 (31)	39.80 (31)	33.34 (30)
18	1957	30.73 (31)	32.49 (30)	30.26 (31)	26.96 (31)	29.88 (28)	55.61 (31)	161.34 (30)	231.14 (31)	186.25 (30)	73.71 (31)	36.71 (31)	36.80 (30)
19	1958	32.54 (31)	32.32 (30)	31.98 (31)	31.90 (31)	27.56 (28)	61.25 (31)	165.32 (30)	279.30 (31)	231.62 (30)	98.20 (31)	53.55 (31)	42.85 (30)
20	1959	51.51 (31)	48.61 (30)	37.79 (31)	63.29 (31)	108.00 (29)	149.00 (31)	367.37 (30)	410.86 (31)	263.09 (30)	133.00 (31)	62.88 (31)	39.71 (30)
21	1960	34.92 (31)	31.86 (30)	29.07 (31)	21.35 (31)	24.65 (28)	41.04 (31)	155.35 (30)	179.65 (31)	130.10 (30)	37.64 (31)	21.12 (31)	20.78 (30)
22	1961	21.56 (31)	27.05 (30)	38.81 (31)	29.74 (31)	35.31 (28)	117.06 (31)	207.70 (30)	262.76 (31)	182.68 (30)	76.81 (31)	35.48 (31)	35.11 (30)
23	1962	32.66 (31)	34.09 (30)	33.85 (31)	35.71 (31)	40.59 (28)	52.75 (31)	292.30 (30)	450.83 (31)	452.45 (30)	233.76 (31)	93.21 (31)	46.46 (30)
24	1963	41.85 (31)	38.71 (30)	35.42 (31)	33.38 (31)	34.06 (28)	68.82 (31)	222.62 (30)	324.59 (31)	256.45 (30)	79.86 (31)	42.13 (31)	38.33 (30)
25	1964	36.85 (31)	37.26 (30)	39.89 (31)	33.60 (31)	34.10 (28)	87.29 (31)	243.72 (30)	305.66 (31)	252.30 (30)	94.96 (31)	42.07 (31)	34.33 (30)
26	1965	48.66 (31)	47.01 (30)	41.36 (31)	48.66 (31)	51.66 (28)	78.67 (31)	206.51 (30)	312.15 (31)	209.12 (30)	90.40 (31)	41.90 (31)	40.34 (30)
27	1966	32.11 (31)	32.26 (30)	34.02 (31)	29.79 (31)	30.70 (28)	49.56 (31)	179.90 (30)	343.89 (31)	204.21 (30)	163.84 (31)	69.20 (31)	55.88 (30)
28	1967	42.81 (31)	43.00 (30)	57.96 (31)	45.64 (31)	47.96 (28)	96.91 (31)	503.10 (30)	470.36 (31)	267.30 (30)	127.93 (31)	74.51 (31)	70.09 (30)
29	1968	66.05 (31)	70.85 (30)	53.71 (31)	44.44 (31)	44.06 (28)	101.88 (31)	248.45 (30)	368.85 (31)	183.81 (30)	78.39 (31)	48.64 (31)	47.53 (30)

Yusufeli Project

30	1969	56.09	41.37	38.45	35.09	41.54	76.85	227.49	188.01	119.35	58.27	42.77	38.55
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
31	1970	44.81	39.34	38.84	31.79	31.21	79.87	160.10	310.01	235.83	91.72	63.78	34.62
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
32	1971	36.92	35.71	45.03	31.87	32.25	60.90	239.90	236.14	243.19	103.96	49.19	49.44
		(31)	(30)	(31)	(31)	(29)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
33	1972	46.07	45.90	32.60	29.27	40.32	47.75	125.46	233.22	205.69	94.25	37.61	29.51
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
34	1973	35.24	42.56	35.37	27.21	29.45	79.90	129.15	271.66	151.64	50.55	34.05	31.31
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
35	1974	30.78	30.91	29.52	27.62	28.01	64.60	229.58	234.55	189.40	69.09	31.45	32.33
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
36	1975	38.44	32.12	27.19	31.53	32.59	70.51	239.01	340.77	261.50	124.21	50.96	40.01
		(31)	(30)	(31)	(31)	(29)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
37	1976	51.30	40.22	34.00	27.70	34.45	63.27	152.57	278.15	210.78	93.28	48.97	34.81
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
38	1977	41.15	37.49	30.88	29.35	45.12	83.63	222.31	337.28	234.63	125.87	52.49	34.60
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
39	1978	36.57	36.43	36.59	36.37	46.84	65.64	154.86	256.44	243.39	127.58	47.68	31.57
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
40	1979	43.19	78.37	53.41	41.41	40.22	93.28	314.94	336.73	184.47	78.37	41.55	32.26
		(31)	(30)	(31)	(31)	(29)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
41	1980	40.87	40.78	39.96	34.14	31.57	59.14	123.09	234.06	273.60	129.48	49.44	37.89
		(31)	(30)	(31)	(30)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
42	1981	37.68	41.65	40.51	34.95	28.76	40.92	219.79	289.80	200.40	85.16	40.99	32.70
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
43	1982	32.16	31.84	26.35	22.43	23.70	46.69	114.02	192.25	160.96	64.13	28.31	31.24
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
44	1983	34.28	72.49	51.10	48.80	32.44	62.25	312.87	566.60	161.38	58.03	70.91	50.73
		(31)	(30)	(31)	(31)	(29)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
45	1984	47.62	59.79	60.10	48.53	39.85	56.99	350.74	256.74	59.93	27.67	13.76	31.89
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
46	1985	51.12	45.03	56.88	45.74	39.44	73.36	358.26	331.97	260.51	48.75	10.21	35.43
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
47	1986	65.81	76.04	58.78	47.03	54.11	56.99	327.98	772.42	182.78	38.86	29.64	36.66
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
48	1987	42.30	55.47	50.73	44.03	39.64	66.94	328.83	532.45	489.17	197.29	59.16	58.40
		(31)	(30)	(31)	(31)	(29)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
49	1988	76.40	66.53	63.17	48.19	34.98	92.09	334.26	94.26	25.81	14.35	10.00	19.00
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)
50	1989	49.23	52.32	62.59	37.02	27.82	81.86	382.20	513.66	147.58	55.07	23.13	27.75
		(31)	(30)	(31)	(31)	(28)	(31)	(30)	(31)	(30)	(31)	(31)	(30)

COEFFW= 0.2406213E-02 COEFFT= 0.3041271E-03 HLOSS= 0.5500000E+01

HEGMAX= 0.1907700E+03 PTMAX = 0.5403118E+06 PMAX= 0.5400000E+03

SHT = 0.1962700E+03 SHL = 0.5500000E+01 SHE = 0.1907700E+03 SETG = 0.9000000E+00 PINST= 0.5401116E+03

\*\*\* DYNAMIC PROGRAMING OF RESERVOIR (INPUT DATA) \*\*\*

CASE \* OLTU RIVER FEASIBILITY STUDY

\* KST = 1  
 \* KMAX = 600  
 \* IMAX = 52  
 \* DELTS = 250.0 (TD)  
 \* LMAX = 26  
 \* DELTQ = 10.0 (TD)  
 \* QMINO = 80.25 (TD)

\* HLAST = 710.00 (M) \* SLAST = 12500.0 (TD)  
 \* HSTAT = 710.00 (M) \* SSTART = 12500.0 (TD)

Iteration	Value	Iteration	Value	Iteration	Value	Iteration	Value
1	0.0( 670.0 )	2	250.0( 671.0 )	3	500.0( 672.1 )	4	750.0( 673.1 )
6	1250.0( 675.1 )	7	1500.0( 676.1 )	8	1750.0( 677.0 )	9	2000.0( 678.0 )
11	2500.0( 678.8 )	12	2750.0( 680.7 )	13	3000.0( 681.6 )	14	3250.0( 682.5 )
16	3750.0( 684.3 )	17	4000.0( 685.1 )	18	4250.0( 686.0 )	19	4500.0( 686.8 )
21	5000.0( 688.5 )	22	5250.0( 689.3 )	23	5500.0( 690.1 )	24	5750.0( 690.9 )
26	6250.0( 692.5 )	27	6500.0( 693.3 )	28	6750.0( 694.1 )	29	7000.0( 694.9 )
31	7500.0( 696.4 )	32	7750.0( 697.1 )	33	8000.0( 697.9 )	34	8250.0( 698.6 )
36	8750.0( 700.0 )	37	9000.0( 700.7 )	38	9250.0( 701.4 )	39	9500.0( 702.1 )
41	10000.0( 703.5 )	42	10250.0( 704.2 )	43	10500.0( 704.8 )	44	10750.0( 705.5 )
46	11250.0( 706.8 )	47	11500.0( 707.5 )	48	11750.0( 708.1 )	49	12000.0( 708.7 )
51	12500.0( 710.0 )	52	12500.0( 710.0 )			50	12250.0( 709.4 )

Iteration	Value	Iteration	Value	Iteration	Value	Iteration	Value
1	80.3	2	90.0	3	100.0	4	110.0
11	180.0	12	190.0	13	200.0	14	210.0
21	280.0	22	290.0	23	300.0	24	310.0
				25	320.0	26	321.0
				5	120.0	6	130.0
				7	140.0	8	150.0
				9	160.0	10	170.0
				16	230.0	17	240.0
				18	250.0	19	260.0
				20	270.0		



Yusufelii Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H	S	GIN	QIN	QOUT	P	E	T	ETC	QCR	GUP	LOSS	SUII
				(M)	(M3/SD)	(M3/SD)	(M3/SD)	(M3/SD)	(MW)	(GMWH)	(H)		(M3/S)	(M3/S)	(M)	(M)
1	1940	10	31	709.612333.2	2933.2	( 94.62)	3100.0	(100.00)	540.00	133.79	8.0	0.900	300.28	300.28	5.50	709.79
2		11	30	709.712330.5	3057.3	(101.91)	3000.0	(100.00)	540.00	129.39	8.0	0.900	300.48	300.48	5.50	709.65
3		12	31	709.612356.1	3065.6	( 98.89)	3100.0	(100.00)	540.00	133.72	8.0	0.900	300.44	300.44	5.50	709.68
4		1	31	705.310685.0	2648.9	( 85.45)	4340.0	(140.00)	540.00	185.17	11.1	0.900	303.75	303.75	5.50	707.46
5		2	28	687.0 4559.9	2854.9	(101.96)	8960.0	(320.00)	537.81	160.76	24.0	0.900	320.57	320.57	5.50	696.16
6		3	31	670.0 0.0	4615.0	(148.87)	9174.9	(395.95)	460.67	332.21	23.3	0.892	305.35	305.35	5.50	678.52
7		4	30	685.3 404.1	13154.4	(438.48)	9113.3	(303.78)	456.96	401.76	23.9	0.900	319.51	319.51	5.50	697.64
8		5	31	710.012500.0	22961.4	(740.69)	9898.6	(319.31)	540.00	388.68	24.0	0.900	299.97	299.97	5.50	710.00
9		6	30	710.012500.0	9143.7	(304.79)	8996.4	(299.88)	540.00	388.68	24.0	0.900	299.97	299.97	5.50	710.00
10		7	31	709.412259.4	3789.4	(123.24)	4030.0	(130.00)	540.00	173.85	10.4	0.900	301.01	301.01	5.50	709.70
11		8	31	709.212181.9	2410.2	( 77.75)	2487.7	( 80.25)	540.00	107.11	6.4	0.900	300.48	300.48	5.50	709.66
12		9	30	707.811630.2	1855.8	( 61.86)	2407.5	( 80.25)	540.00	103.25	6.4	0.900	302.19	302.19	5.50	708.50
13	1941	10	31	708.311845.4	2702.9	( 87.19)	2487.7	( 80.25)	540.00	106.47	6.4	0.900	302.83	302.83	5.50	708.07
14		11	30	709.712365.9	4420.5	(147.35)	3900.0	(130.00)	540.00	167.67	10.4	0.900	301.44	301.44	5.50	709.01
15		12	31	709.512280.9	3635.1	(117.26)	3720.0	(120.00)	540.00	160.37	9.5	0.900	300.62	300.62	5.50	709.56
16		1	31	700.3 8830.9	2440.0	( 78.71)	5890.0	(190.00)	540.00	248.06	14.8	0.900	307.73	307.73	5.50	704.86
17		2	28	684.6 3840.4	3892.6	(139.02)	8883.2	(317.26)	521.09	350.00	24.0	0.898	317.41	317.41	5.50	692.43
18		3	31	670.0 0.0	5252.0	(169.42)	9092.4	(393.30)	455.50	326.69	23.1	0.891	304.26	304.26	5.50	677.30
19		4	30	694.7 6947.8	16194.0	(538.80)	9246.2	(308.21)	477.06	342.90	24.0	0.894	308.73	308.73	5.50	682.36
20		5	31	710.012500.0	17733.4	(572.04)	9660.7	(311.64)	540.00	401.76	24.0	0.900	311.64	311.64	5.50	702.36
21		6	30	710.012500.0	9564.1	(318.80)	8973.1	(299.10)	540.00	387.67	23.9	0.900	299.97	299.97	5.50	710.00
22		7	31	710.012487.6	4637.6	(148.60)	4650.0	(150.00)	540.00	200.88	12.0	0.900	300.00	300.00	5.50	709.98
23		8	31	710.012494.7	2494.9	( 80.48)	2487.7	( 80.25)	540.00	107.47	6.4	0.900	300.01	300.01	5.50	709.98
24		9	30	709.312201.3	2114.1	( 70.47)	2407.5	( 80.25)	540.00	103.82	6.4	0.900	300.53	300.53	5.50	709.62
25	1942	10	31	708.611954.6	6256.7	(205.85)	5949.9	(196.69)	526.14	241.98	6.4	0.899	9262.	9262.	5.50	702.13
26		11	30	708.812020.6	2241.0	( 72.29)	2487.7	( 80.25)	540.00	106.92	6.4	0.900	301.54	301.54	5.50	708.94
27		12	31	708.711974.7	2473.5	( 82.45)	2407.5	( 80.25)	540.00	103.36	6.4	0.900	301.88	301.88	5.50	708.71
28		1	31	707.511507.8	2441.9	( 78.77)	2487.7	( 80.25)	540.00	106.87	6.4	0.900	301.84	301.84	5.50	708.74
29		2	28	706.211000.7	2020.9	( 65.19)	2487.7	( 80.25)	540.00	106.87	6.4	0.900	302.82	302.82	5.50	708.08
30		3	31	705.210651.7	1739.9	( 62.14)	2247.0	( 80.25)	540.00	95.57	6.3	0.900	304.71	304.71	5.50	706.83
31		4	30	709.012114.8	2138.7	( 68.99)	2487.7	( 80.25)	540.00	105.22	6.3	0.900	306.42	306.42	5.50	705.71
32		5	31	710.012500.0	6263.1	(208.77)	4800.0	(160.00)	540.00	204.47	12.6	0.900	304.24	304.24	5.50	707.14
33		6	30	709.612332.0	9425.5	(304.05)	9033.7	(291.41)	540.00	389.36	23.3	0.900	300.69	300.69	5.50	709.52
34		7	31	710.012499.4	5332.0	(184.40)	5700.0	(190.00)	540.00	246.01	15.2	0.900	300.28	300.28	5.50	709.79
35		8	31	709.312226.9	3267.4	(105.40)	3100.0	(100.00)	540.00	133.79	8.0	0.900	300.28	300.28	5.50	709.79
36		9	30	707.811649.1	2215.3	( 71.46)	2487.7	( 80.25)	540.00	107.30	6.4	0.900	300.48	300.48	5.50	709.66
37	1943	10	31	706.211027.5	1829.7	( 60.99)	2407.5	( 80.25)	540.00	103.25	6.4	0.900	302.07	302.07	5.50	708.58
38		11	30	703.010534.4	3465.7	(113.74)	3511.2	(113.28)	540.00	150.71	6.4	0.900	9194.	9194.	5.50	708.45
39		12	31	703.510003.0	1866.2	( 60.20)	2487.7	( 80.25)	540.00	105.92	6.3	0.900	304.38	304.38	5.50	707.04
40		1	31	701.4 9245.6	1934.4	( 64.48)	2407.5	( 80.25)	540.00	101.78	6.3	0.900	306.56	306.56	5.50	705.61
41		2	29	699.9 8690.0	1730.4	( 55.82)	2487.7	( 80.25)	540.00	104.45	6.2	0.900	308.67	308.67	5.50	704.25
42		3	31	687.7 4744.0	1771.6	( 61.09)	2327.2	( 80.25)	540.00	95.94	6.1	0.900	311.47	311.47	5.50	702.47
43		4	30	678.9 2247.4	4424.0	(142.71)	8370.0	(270.00)	527.02	332.35	20.3	0.899	314.38	314.38	5.50	700.65
44		5	31	706.511139.7	6771.3	(225.71)	9267.8	(308.93)	480.97	345.64	24.0	0.894	309.52	309.52	5.50	683.27
45		6	30	710.012500.0	18735.8	(604.38)	9843.5	(317.53)	540.00	388.48	24.0	0.898	317.65	317.65	5.50	692.71
46		7	31	709.912451.9	10533.0	(351.10)	9072.1	(302.40)	540.00	388.62	24.0	0.900	302.54	302.54	5.50	708.27
47		8	31	709.612344.1	5841.9	(188.45)	5890.0	(190.00)	540.00	254.40	15.2	0.900	300.06	300.06	5.50	709.94
48		9	30	708.411879.4	2379.9	( 76.77)	2487.7	( 80.25)	540.00	107.35	6.4	0.900	300.35	300.35	5.50	709.74
					1942.8	( 64.76)	2407.5	( 80.25)	540.00	103.52	6.4	0.900	301.42	301.42	5.50	709.02
					4989.0	(163.16)	4961.4	(162.55)	532.53	202.66	6.4	0.899	9393.	9393.	5.50	702.23

Yusufelli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	GR (M3/SD)	ROUT (M3/SD)	P (MW)	E (GWH)	T (CH)	ETG (M3/S)	GCR (M3/S)	QUP (M3/S)	LOSS (CM)	SUII (MM)
49	1944	10	31	706.611155.5	1763.9( 56.90)	2487.7( 80.25)	0.0	0.0	540.00	106.17	6.3	0.900	303.69	303.69	5.50	707.50
50		11	30	705.210633.8	1885.8( 62.86)	2407.5( 80.25)	0.0	0.0	540.00	104.92	6.3	0.900	306.14	306.14	5.50	703.89
51		12	31	702.7 9697.6	1551.5( 50.05)	2487.7( 80.25)	0.0	0.0	540.00	104.29	6.2	0.900	309.15	309.15	5.50	703.94
52		1	31	699.8 8659.7	1449.9( 46.77)	2487.7( 80.25)	0.0	0.0	540.00	102.86	6.1	0.900	313.45	313.45	5.50	701.23
53		2	28	697.0 7709.1	1396.4( 46.30)	2247.0( 80.25)	0.0	0.0	540.00	91.56	6.1	0.900	318.05	318.05	5.50	698.40
54		3	31	694.4 6852.6	1331.2( 52.62)	2487.7( 80.25)	0.0	0.0	535.84	99.91	6.0	0.900	320.20	320.20	5.50	695.72
55		4	30	701.6 9312.6	4867.5(162.25)	2407.5( 80.25)	0.0	0.0	540.00	97.91	6.0	0.900	318.68	318.68	5.50	698.02
56		5	31	709.612347.5	8924.9(287.90)	5890.0(190.00)	0.0	0.0	540.00	249.01	14.9	0.900	306.56	306.56	5.50	705.62
57		6	30	709.112158.8	7611.3(253.71)	7800.0(260.00)	0.0	0.0	540.00	335.97	20.7	0.900	300.89	300.89	5.50	709.38
58		7	31	709.712360.6	3301.8(106.51)	3100.0(100.00)	0.0	0.0	540.00	133.54	8.0	0.900	300.86	300.86	5.50	709.40
59		8	31	707.911674.9	1802.0( 58.13)	2487.7( 80.25)	0.0	0.0	540.00	106.84	6.4	0.900	301.77	301.77	5.50	708.78
60		9	30	705.510757.5	1490.1( 49.67)	2407.5( 80.25)	0.0	0.0	540.00	102.34	6.3	0.900	304.87	304.87	5.50	706.72
					3131.4(102.81)	3224.3(106.02)	0.0	0.0	539.65	136.03		0.900	9387.	9387.	5.50	704.21
61	1945	10	31	703.0 9811.3	1541.6( 49.73)	2487.7( 80.25)	0.0	0.0	540.00	104.46	6.2	0.900	308.66	308.66	5.50	704.26
62		11	30	700.5 8900.5	1436.7( 49.89)	2407.5( 80.25)	0.0	0.0	540.00	99.80	6.2	0.900	312.65	312.65	5.50	701.72
63		12	31	697.6 7899.9	1487.1( 47.97)	2487.7( 80.25)	0.0	0.0	540.00	101.70	6.1	0.900	317.03	317.03	5.50	699.02
64		1	31	694.3 6800.0	1387.9( 44.77)	2487.7( 80.25)	0.0	0.0	536.74	100.03	6.0	0.900	320.37	320.37	5.50	695.92
65		2	28	691.3 5874.3	1321.3( 47.19)	2247.0( 80.25)	0.0	0.0	522.78	88.73	6.1	0.898	317.73	317.73	5.50	692.81
66		3	31	691.4 5904.4	2517.8( 81.82)	2487.7( 80.25)	0.0	0.0	516.50	97.43	6.1	0.898	316.53	316.53	5.50	691.40
67		4	30	703.3 9919.3	6422.5(214.08)	2407.5( 80.25)	0.0	0.0	540.00	97.57	6.0	0.900	319.77	319.77	5.50	697.36
68		5	31	709.812330.9	9641.6(311.02)	7130.0(230.00)	0.0	0.0	540.00	302.84	18.1	0.900	305.12	305.12	5.50	706.55
69		6	30	709.912441.1	8710.2(290.34)	8700.0(290.00)	0.0	0.0	540.00	375.58	23.2	0.900	300.21	300.21	5.50	709.84
70		7	31	710.012500.0	5031.3(162.30)	4960.0(160.00)	12.4	12.4	540.00	214.21	12.8	0.900	300.08	300.08	5.50	709.93
71		8	31	709.512320.2	2610.2( 84.20)	2790.0( 90.00)	0.0	0.0	540.00	120.41	7.2	0.900	300.30	300.30	5.50	709.77
72		9	30	708.311807.5	1844.8( 63.46)	2407.5( 80.25)	0.0	0.0	540.00	103.45	6.4	0.900	301.60	301.60	5.50	708.90
					3671.9(120.49)	3583.5(117.67)	1.0	1.0	536.33	135.52		0.900	9428.	9428.	5.50	702.29
73	1946	10	31	708.211774.9	2455.2( 79.20)	2487.7( 80.25)	0.0	0.0	540.00	106.54	6.4	0.900	302.63	302.63	5.50	708.21
74		11	30	707.111350.7	1983.3( 66.11)	2407.5( 80.25)	0.0	0.0	540.00	102.80	6.3	0.900	303.51	303.51	5.50	707.62
75		12	31	704.910508.2	1645.2( 53.07)	2487.7( 80.25)	0.0	0.0	540.00	103.36	6.3	0.900	306.01	306.01	5.50	705.97
76		1	31	702.5 9644.8	1624.4( 52.40)	2487.7( 80.25)	0.0	0.0	540.00	104.16	6.2	0.900	309.53	309.53	5.50	703.70
77		2	28	700.7 8991.0	1593.2( 56.90)	2247.0( 80.25)	0.0	0.0	540.00	93.10	6.2	0.900	312.81	312.81	5.50	701.62
78		3	31	704.710444.3	3941.0(127.13)	2487.7( 80.25)	0.0	0.0	540.00	103.64	6.2	0.900	311.09	311.09	5.50	702.71
79		4	30	709.912440.2	6493.9(216.53)	4500.0(150.00)	0.0	0.0	540.00	191.82	11.8	0.900	304.03	304.03	5.50	707.27
80		5	31	709.712381.9	5211.7(168.12)	5270.0(170.00)	0.0	0.0	540.00	227.44	13.6	0.900	300.30	300.30	5.50	709.78
81		6	30	709.712373.8	3591.9(119.73)	3600.0(120.00)	0.0	0.0	540.00	155.30	9.6	0.900	300.42	300.42	5.50	709.69
82		7	31	708.912077.1	2191.1( 70.68)	2487.7( 80.25)	0.0	0.0	540.00	107.12	6.4	0.900	300.99	300.99	5.50	709.31
83		8	31	706.511131.0	1541.6( 49.73)	2487.7( 80.25)	0.0	0.0	540.00	106.28	6.3	0.900	303.36	303.36	5.50	707.72
84		9	30	703.910130.5	1407.0( 46.90)	2407.5( 80.25)	0.0	0.0	540.00	101.56	6.3	0.900	307.23	307.23	5.50	705.18
					2806.8( 92.21)	2946.5( 96.85)	0.0	0.0	540.00	125.43		0.900	9280.	9280.	5.50	706.56
85	1947	10	31	701.3 9194.0	1551.2( 50.04)	2487.7( 80.25)	0.0	0.0	540.00	103.57	6.2	0.900	311.31	311.31	5.50	702.57
86		11	30	700.6 8952.8	2166.3( 72.21)	2407.5( 80.25)	0.0	0.0	540.00	99.40	6.1	0.900	313.90	313.90	5.50	700.95
87		12	31	698.2 8144.9	1649.8( 53.23)	2487.7( 80.25)	0.0	0.0	540.00	101.90	6.1	0.900	316.39	316.39	5.50	699.41
88		1	31	695.5 7217.7	1590.6( 51.31)	2487.7( 80.25)	0.0	0.0	540.00	100.57	6.0	0.900	320.59	320.59	5.50	696.88
89		2	29	693.0 6331.9	1491.5( 51.43)	2327.2( 80.25)	0.0	0.0	529.24	92.68	6.0	0.899	318.96	318.96	5.50	694.23
90		3	31	692.6 6234.8	2360.6( 76.15)	2487.7( 80.25)	0.0	0.0	522.59	98.21	6.1	0.898	317.70	317.70	5.50	692.76
91		4	30	704.610421.5	6374.2(219.14)	2407.5( 80.25)	0.0	0.0	540.00	98.20	6.1	0.900	317.72	317.72	5.50	698.60
92		5	31	710.012494.2	9512.7(306.86)	7440.0(240.00)	0.0	0.0	540.00	317.20	18.9	0.900	303.98	303.98	5.50	707.31
93		6	30	709.912455.8	8961.6(298.72)	9000.0(300.00)	0.0	0.0	540.00	388.72	24.0	0.900	300.07	300.07	5.50	709.94
94		7	31	709.812411.1	3055.4( 98.56)	3100.0(100.00)	0.0	0.0	540.00	133.82	8.0	0.900	300.22	300.22	5.50	709.83
95		8	31	708.111745.1	1841.7( 59.41)	2487.7( 80.25)	0.0	0.0	540.00	106.93	6.4	0.900	301.51	301.51	5.50	708.96
96		9	30	706.411102.1	1744.5( 58.15)	2407.5( 80.25)	0.0	0.0	540.00	102.63	6.3	0.900	304.01	304.01	5.50	707.29
					3541.7(116.27)	3460.7(113.52)	0.0	0.0	537.65	145.32		0.900	9470.	9470.	5.50	702.39

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H	S	GIN	QQ	QOUT	P	E	T	ETG	GCR	QUP	LOSS	SUII
				(M)	(M3/SD)	(M3/SD)	(M3/SD)	(M3/SD)	(MW)	(GWH)	(CH)		(M3/S)	(M3/S)	(M)	(M)
97	1948	10	31	704.210261.7	1647.3( 53.14)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	105.02	6.2	0.900	307.01	307.01	5.50	705.32
98		11	30	701.8 9365.6	1511.4( 50.38)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	100.44	6.2	0.900	310.65	310.65	5.50	702.98
99		12	31	698.7 8281.5	1403.7( 45.28)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	102.33	6.1	0.900	315.06	315.06	5.50	700.23
100		1	31	695.4 7465.2	1371.4( 44.24)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	100.65	6.0	0.900	320.32	320.32	5.50	697.04
101		2	28	692.2 6451.9	1233.7( 44.06)	2347.0( 80.25)	2347.0( 80.25)	0.0	527.26	89.25	6.0	0.899	318.59	318.59	5.50	693.81
102		3	31	690.2 5813.9	1849.8( 59.67)	2487.7( 80.25)	2487.7( 80.25)	0.0	515.66	97.32	6.1	0.898	316.37	316.37	5.50	691.21
103		4	30	696.1 7412.6	4306.2(143.54)	2407.5( 80.25)	2407.5( 80.25)	0.0	524.32	95.26	6.1	0.898	318.03	318.03	5.50	693.15
104		5	31	709.812438.6	9056.0(302.13)	4030.0(130.00)	4030.0(130.00)	0.0	540.00	188.13	10.0	0.900	310.64	310.64	5.50	702.99
105		6	30	710.012480.3	5741.7(191.39)	5700.0(190.00)	5700.0(190.00)	0.0	540.00	246.14	15.2	0.900	300.12	300.12	5.50	709.90
106		7	31	708.711971.3	1978.7( 63.83)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	107.12	6.3	0.900	300.99	300.99	5.50	709.31
107		8	31	706.411076.0	1592.5( 51.37)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	106.17	6.3	0.900	303.67	303.67	5.50	707.52
108		9	30	703.810122.6	1454.1( 48.47)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	101.52	6.3	0.900	307.35	307.35	5.50	705.10
					2762.2( 90.62)	2843.8( 93.54)	2843.8( 93.54)	0.0	535.60	118.28		0.900	9450.	9450.	5.50	701.55
109	1949	10	31	701.1 9411.4	1476.5( 47.63)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	103.50	6.2	0.900	311.51	311.51	5.50	702.44
110		11	30	698.1 8076.1	1372.2( 45.74)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	98.70	6.1	0.900	316.12	316.12	5.50	699.57
111		12	31	694.7 6931.2	1342.9( 43.32)	2487.7( 80.25)	2487.7( 80.25)	0.0	538.81	100.29	6.0	0.900	320.76	320.76	5.50	696.38
112		1	31	690.9 5744.2	1300.8( 41.96)	2487.7( 80.25)	2487.7( 80.25)	0.0	522.74	98.23	6.1	0.898	317.73	317.73	5.50	692.80
113		2	28	687.7 4758.6	1261.4( 40.05)	247.0( 80.25)	247.0( 80.25)	0.0	507.30	86.92	6.1	0.897	314.75	314.75	5.50	689.31
114		3	31	687.0 4439.1	2268.3( 73.17)	2487.7( 80.25)	2487.7( 80.25)	0.0	498.61	95.10	6.2	0.896	313.05	313.05	5.50	687.33
115		4	30	702.6 9671.2	7539.6(251.32)	2407.5( 80.25)	2407.5( 80.25)	0.0	531.63	96.17	6.0	0.899	319.41	319.41	5.50	694.79
116		5	31	709.712384.7	9535.4(307.53)	6820.0(220.00)	6820.0(220.00)	0.0	540.00	289.10	17.3	0.900	305.73	305.73	5.50	706.16
117		6	30	709.112141.7	6057.0(201.90)	6300.0(210.00)	6300.0(210.00)	0.0	540.00	271.39	16.8	0.900	300.85	300.85	5.50	709.41
118		7	31	709.612329.5	2977.9( 96.06)	2790.0( 90.00)	2790.0( 90.00)	0.0	540.00	120.15	7.2	0.900	300.95	300.95	5.50	709.34
119		8	31	707.711373.7	1732.0( 55.87)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	106.75	6.4	0.900	302.02	302.02	5.50	708.61
120		9	30	705.010348.3	1382.1( 46.07)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	102.13	6.3	0.900	305.49	305.49	5.50	706.31
					3187.0(104.63)	3151.5(103.52)	3151.5(103.52)	0.0	531.59	130.70		0.899	9449.	9449.	5.50	700.20
121	1950	10	31	703.510005.5	1944.9( 62.74)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	104.45	6.2	0.900	308.68	308.68	5.50	704.25
122		11	30	701.6 9393.3	1695.3( 56.51)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	100.21	6.2	0.900	311.35	311.35	5.50	702.54
123		12	31	698.9 8370.4	1564.9( 50.48)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	102.35	6.1	0.900	315.01	315.01	5.50	700.25
124		1	31	696.0 7376.3	1435.6( 48.18)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	100.89	6.0	0.900	319.57	319.57	5.50	697.49
125		2	28	693.3 6493.4	1364.2( 48.72)	247.0( 80.25)	247.0( 80.25)	0.0	531.10	89.70	6.0	0.899	319.31	319.31	5.50	694.67
126		3	31	692.1 6095.4	2089.7( 67.41)	2487.7( 80.25)	2487.7( 80.25)	0.0	522.24	98.17	6.1	0.898	317.63	317.63	5.50	692.69
127		4	30	703.510002.6	6314.7(210.49)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	97.79	6.0	0.900	319.07	319.07	5.50	697.78
128		5	31	709.712400.1	7977.5(257.34)	5880.0(180.00)	5880.0(180.00)	0.0	540.00	237.10	14.2	0.900	305.01	305.01	5.50	706.63
129		6	30	709.112374.1	7254.0(241.80)	7500.0(250.00)	7500.0(250.00)	0.0	540.00	323.14	19.9	0.900	300.80	300.80	5.50	709.44
130		7	31	709.512310.4	2946.2( 95.04)	2790.0( 90.00)	2790.0( 90.00)	0.0	540.00	120.14	7.2	0.900	300.96	300.96	5.50	709.33
131		8	31	708.011705.2	1882.6( 60.73)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	106.83	6.4	0.900	301.81	301.81	5.50	708.76
132		9	30	706.611176.0	1878.3( 62.61)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	102.64	6.3	0.900	303.98	303.98	5.50	707.31
					3200.5(105.17)	3148.2(103.52)	3148.2(103.52)	0.0	537.78	131.95		0.900	9435.	9435.	5.50	702.59
133	1951	10	31	707.311430.5	2742.3( 88.46)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	105.88	6.3	0.900	304.52	304.52	5.50	706.95
134		11	30	706.911189.5	2266.5( 75.55)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	102.54	6.3	0.900	304.29	304.29	5.50	707.10
135		12	31	705.110384.6	1782.8( 57.51)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	105.37	6.3	0.900	305.98	305.98	5.50	705.99
136		1	31	703.710071.2	1974.4( 63.69)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	104.52	6.4	0.900	308.46	308.46	5.50	704.38
137		2	29	704.610420.7	2676.7( 92.30)	2327.2( 80.25)	2327.2( 80.25)	0.0	540.00	97.67	6.2	0.900	308.80	308.80	5.50	704.16
138		3	31	706.511135.2	3202.3(103.30)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	105.15	6.3	0.900	306.62	306.62	5.50	705.58
139		4	30	710.012498.1	8262.9(275.43)	6900.0(230.00)	6900.0(230.00)	0.0	540.00	295.56	18.2	0.900	302.56	302.56	5.50	708.26
140		5	31	709.612340.9	9142.8(294.93)	9300.0(300.00)	9300.0(300.00)	0.0	540.00	401.40	24.0	0.900	300.27	300.27	5.50	709.80
141		6	30	709.212179.8	7338.9(244.63)	7500.0(250.00)	7500.0(250.00)	0.0	540.00	323.07	19.9	0.900	300.86	300.86	5.50	709.40
142		7	31	709.712383.8	3924.0(126.58)	3720.0(120.00)	3720.0(120.00)	0.0	540.00	160.29	9.6	0.900	300.78	300.78	5.50	709.45
143		8	31	708.611926.9	2030.8( 65.31)	2487.7( 80.25)	2487.7( 80.25)	0.0	540.00	107.02	6.4	0.900	301.25	301.25	5.50	709.13
144		9	30	706.511118.4	1599.0( 53.30)	2407.5( 80.25)	2407.5( 80.25)	0.0	540.00	102.75	6.3	0.900	303.67	303.67	5.50	707.52
					3911.9(128.43)	3916.7(128.50)	3916.7(128.50)	0.0	540.00	167.60		0.900	9272.	9272.	5.50	707.31

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H	S	GIN	Q <sub>0</sub>	GOUT	P	E	T	ETG	QCR	QUP	LOSS	SUII
				(M)	(M3/SD)	(M3/SD)	(M3/SD)	(M3/SD)	(MW)	(GWH)	(CH)	(M3/S)	(M3/S)	(M3/S)	(M)	(M)
145	1952	10	31	703.810096.3	1465.7(47.28)	2487.7(80.25)	0.0	0.0	540.00	104.91	6.3	0.900	307.52	307.52	5.50	705.12
146		11	30	701.09085.9	1397.1(46.57)	2407.5(80.25)	0.0	0.0	540.00	100.13	6.2	0.900	311.62	311.62	5.50	702.37
147		12	31	697.87962.4	1364.3(44.01)	2487.7(80.25)	0.0	0.0	540.00	101.88	6.1	0.900	316.45	316.45	5.50	699.57
148		1	31	694.26777.0	1302.3(42.01)	2487.7(80.25)	0.0	0.0	536.99	100.06	6.0	0.900	320.42	320.42	5.50	695.98
149		2	28	691.25816.0	1286.0(45.93)	2247.0(80.25)	0.0	0.0	522.20	88.66	6.1	0.898	317.62	317.62	5.50	692.68
150		3	31	690.75679.6	2351.3(75.85)	2487.7(80.25)	0.0	0.0	514.47	97.16	6.1	0.897	316.14	316.14	5.50	690.94
151		4	30	701.79353.4	6081.3(282.71)	2407.5(80.25)	0.0	0.0	538.09	96.97	6.0	0.900	320.62	320.62	5.50	696.22
152		5	31	710.012487.5	9334.1(301.10)	6200.0(200.00)	0.0	0.0	540.00	262.42	15.7	0.900	306.20	306.20	5.50	705.85
153		6	30	708.812026.7	7639.2(254.64)	8100.0(270.00)	0.0	0.0	540.00	348.90	21.5	0.900	300.87	300.87	5.50	709.59
154		7	31	705.912441.5	3514.8(113.38)	3100.0(100.00)	0.0	0.0	540.00	133.49	8.0	0.900	300.96	300.96	5.50	709.33
155		8	31	708.812032.0	2078.2(67.04)	2487.7(80.25)	0.0	0.0	540.00	101.13	6.4	0.900	300.95	300.95	5.50	709.34
156		9	30	707.511512.7	1888.2(62.94)	2407.5(80.25)	0.0	0.0	540.00	103.08	6.4	0.900	302.70	302.70	5.50	708.16
					3308.5(108.62)	3275.7(107.89)	0.0	0.0	535.98	137.07		0.900	9452.	9432.	5.50	702.06
157	1953	10	31	705.310668.6	1643.6(53.02)	2487.7(80.25)	0.0	0.0	540.00	105.58	6.3	0.900	305.37	305.37	5.50	706.39
158		11	30	703.29878.1	1617.0(53.90)	2407.5(80.25)	0.0	0.0	540.00	101.07	6.2	0.900	308.70	308.70	5.50	704.23
159		12	31	700.38830.6	1440.3(46.46)	2487.7(80.25)	0.0	0.0	540.00	103.12	6.2	0.900	312.66	312.66	5.50	701.72
160		1	31	697.37790.8	1448.0(46.71)	2487.7(80.25)	0.0	0.0	540.00	101.56	6.1	0.900	317.46	317.46	5.50	698.76
161		2	28	696.17403.0	1859.2(66.40)	2247.0(80.25)	0.0	0.0	540.00	90.74	6.0	0.900	320.92	320.92	5.50	696.68
162		3	31	700.48870.9	3955.6(127.60)	2487.7(80.25)	0.0	0.0	540.00	101.29	6.1	0.900	318.31	318.31	5.50	698.24
163		4	30	701.29166.6	8095.7(269.86)	7800.0(260.00)	0.0	0.0	540.00	321.79	19.9	0.900	314.15	314.15	5.50	700.79
164		5	31	708.211796.4	11929.8(384.83)	9300.0(300.00)	0.0	0.0	540.00	391.39	23.9	0.900	307.95	307.95	5.50	704.72
165		6	30	710.012500.0	9705.0(323.50)	9000.0(300.00)	1.4	1.4	540.00	387.14	23.9	0.900	301.28	301.28	5.50	709.11
166		7	31	710.012499.7	6199.7(199.99)	6200.0(200.00)	0.0	0.0	540.00	227.86	16.0	0.900	299.97	299.97	5.50	710.00
167		8	31	709.512311.5	2601.8(83.93)	2790.0(90.00)	0.0	0.0	540.00	120.40	7.2	0.900	300.32	300.32	5.50	709.76
168		9	30	708.311860.2	1936.2(64.54)	2407.5(80.25)	0.0	0.0	540.00	103.47	6.4	0.900	301.55	301.55	5.50	708.93
					4369.3(143.39)	4341.9(142.65)	0.1	0.1	540.00	182.95		0.900	9398.	9398.	5.50	704.11
169	1954	10	31	706.211016.2	1663.8(53.67)	2487.7(80.25)	0.0	0.0	540.00	106.04	6.3	0.900	304.04	304.04	5.50	707.27
170		11	30	703.910142.3	1533.6(51.12)	2407.5(80.25)	0.0	0.0	540.00	101.49	6.2	0.900	307.43	307.43	5.50	705.05
171		12	31	701.19142.3	1487.7(47.99)	2487.7(80.25)	0.0	0.0	540.00	103.54	6.2	0.900	311.40	311.40	5.50	702.51
172		1	31	697.87982.2	1327.7(42.83)	2487.7(80.25)	0.0	0.0	540.00	101.94	6.1	0.900	316.27	316.27	5.50	699.48
173		2	28	694.97018.2	1283.0(45.82)	2247.0(80.25)	0.0	0.0	538.80	90.59	6.0	0.900	320.75	320.75	5.50	696.58
174		3	31	692.66251.6	1721.1(55.52)	2487.7(80.25)	0.0	0.0	526.97	98.78	6.0	0.899	318.53	318.53	5.50	693.74
175		4	30	696.17391.0	3546.9(118.23)	2407.5(80.25)	0.0	0.0	529.49	95.90	6.0	0.899	319.01	319.01	5.50	694.31
176		5	31	706.711207.4	6304.2(203.36)	2487.7(80.25)	0.0	0.0	540.00	102.94	6.1	0.900	313.19	313.19	5.50	701.39
177		6	30	710.012500.0	3789.6(126.32)	2407.5(80.25)	89.5	89.5	540.00	103.17	6.4	0.900	302.41	302.41	5.50	708.35
178		7	31	707.711573.4	1561.2(50.36)	2487.7(80.25)	0.0	0.0	540.00	106.86	6.4	0.900	301.71	301.71	5.50	708.83
179		8	31	704.410322.2	1236.6(39.89)	2487.7(80.25)	0.0	0.0	540.00	105.38	6.3	0.900	305.95	305.95	5.50	706.01
180		9	30	701.09107.5	1191.8(39.76)	2407.5(80.25)	0.0	0.0	540.00	100.30	6.2	0.900	311.09	311.09	5.50	702.71
					2220.7(72.91)	2440.9(80.25)	7.5	7.5	537.94	101.41		0.900	9457.	9457.	5.50	702.17
181	1955	10	31	697.37819.5	1199.7(38.70)	2487.7(80.25)	0.0	0.0	540.00	101.79	6.1	0.900	316.75	316.75	5.50	699.19
182		11	30	693.66597.6	1185.6(39.59)	2407.5(80.25)	0.0	0.0	534.80	96.56	6.0	0.899	320.01	320.01	5.50	695.49
183		12	31	689.75383.3	1273.5(41.08)	2487.7(80.25)	0.0	0.0	517.83	97.60	6.1	0.898	316.79	316.79	5.50	691.69
184		1	31	685.54114.5	1218.9(39.32)	2487.7(80.25)	0.0	0.0	499.95	95.27	6.1	0.896	313.31	313.31	5.50	687.64
185		2	29	682.53251.1	1463.9(50.48)	2327.2(80.25)	0.0	0.0	484.26	87.20	6.2	0.894	310.18	310.18	5.50	684.03
186		3	31	680.02544.7	1781.3(57.46)	2487.7(80.25)	0.0	0.0	472.34	91.63	6.3	0.893	307.76	307.76	5.50	681.26
187		4	30	689.15171.2	5034.0(167.80)	2407.5(80.25)	0.0	0.0	486.38	90.48	6.2	0.895	310.61	310.61	5.50	684.52
188		5	31	700.99047.1	6363.7(205.28)	2487.7(80.25)	0.0	0.0	532.44	99.48	6.0	0.899	319.56	319.56	5.50	694.97
189		6	30	709.712381.9	7234.8(241.16)	3900.0(130.00)	0.0	0.0	540.00	164.61	10.2	0.900	307.06	307.06	5.50	705.29
190		7	31	709.512313.7	3341.8(107.80)	3410.0(110.00)	0.0	0.0	540.00	147.05	8.8	0.900	300.53	300.53	5.50	709.62
191		8	31	707.611339.0	1713.1(55.26)	2487.7(80.25)	0.0	0.0	540.00	106.72	6.4	0.900	302.12	302.12	5.50	708.55
192		9	30	705.110608.4	1476.9(49.23)	2407.5(80.25)	0.0	0.0	540.00	102.15	6.3	0.900	305.44	305.44	5.50	706.35
					2773.9(91.09)	2648.9(86.88)	0.0	0.0	519.00	106.71		0.898	9481.	9481.	5.50	695.72

Yusufelji Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QQ (M3/SD)	QOUT (M3/SD)	P (CMW)	E (GWH)	T (CH)	ETG	QCR (M3/S)	GUP (M3/S)	LOSS (M)	SUII (CM)
193	1956	10	31	702.1	9498.9	1378.3(44.46)	2487.7(80.25)	0.0	540.00	104.13	6.2	0.900	309.63	309.63	5.50	703.63
194		11	30	699.0	8584.4	1293.0(43.10)	2407.5(80.25)	0.0	540.00	99.53	6.1	0.900	314.52	314.52	5.50	700.56
195		12	31	695.3	7146.2	1249.6(40.51)	2487.7(80.25)	0.0	540.00	100.72	6.0	0.900	320.12	320.12	5.50	697.16
196		1	31	691.1	5804.6	1146.1(36.97)	2487.7(80.25)	0.0	524.64	98.48	6.1	0.898	318.09	318.09	5.50	693.22
197		2	28	688.1	4880.8	1323.3(47.26)	2247.0(80.25)	0.0	508.62	87.07	6.1	0.897	315.01	315.01	5.50	689.61
198		3	31	689.2	5226.2	2833.1(91.39)	2487.7(80.25)	0.0	504.47	95.86	6.1	0.896	314.20	314.20	5.50	688.67
199		4	30	700.5	8931.2	6112.5(203.75)	2407.5(80.25)	0.0	532.11	96.23	6.0	0.899	319.50	319.50	5.50	694.89
200		5	31	709.3	12314.2	8963.0(289.13)	5580.0(180.00)	0.0	540.00	235.22	14.1	0.900	307.44	307.44	5.50	705.04
201		6	30	708.4	11857.9	7943.7(284.79)	8400.0(280.00)	0.0	540.00	361.06	22.3	0.900	301.51	301.51	5.50	708.96
202		7	31	709.5	12303.7	3234.8(104.35)	2790.0(90.00)	0.0	540.00	119.91	7.2	0.900	301.53	301.53	5.50	708.94
203		8	31	707.6	11563.9	1749.0(56.42)	2487.7(80.25)	0.0	540.00	106.73	6.4	0.900	302.09	302.09	5.50	708.57
204		9	30	705.3	10685.2	1498.8(49.96)	2407.5(80.25)	0.0	540.00	102.44	6.3	0.900	305.29	305.29	5.50	706.44
						3227.1(105.99)	3223.2(106.02)	0.0	532.49	133.90		0.899	945.1	945.1	5.50	700.47
205	1957	10	31	702.5	9635.3	1467.8(47.35)	2487.7(80.25)	0.0	540.00	104.24	6.2	0.900	309.24	309.24	5.50	703.88
206		11	30	699.9	8701.1	1473.3(49.11)	2407.5(80.25)	0.0	540.00	99.53	6.1	0.900	313.49	313.49	5.50	701.20
207		12	31	696.9	7666.6	1453.3(46.88)	2487.7(80.25)	0.0	540.00	101.37	6.1	0.900	318.06	318.06	5.50	698.39
208		1	31	693.4	6529.9	1351.0(43.58)	2487.7(80.25)	0.0	535.30	99.59	6.0	0.899	319.73	319.73	5.50	695.16
209		2	28	690.4	5584.9	1302.0(46.50)	2247.0(80.25)	0.0	518.82	88.27	6.1	0.898	316.98	316.98	5.50	691.92
210		3	31	689.6	5336.2	2239.1(72.23)	2487.7(80.25)	0.0	510.33	96.63	6.1	0.897	315.34	315.34	5.50	690.00
211		4	30	698.7	8267.5	5338.8(177.96)	2407.5(80.25)	0.0	528.66	95.80	6.0	0.899	318.85	318.85	5.50	694.12
212		5	31	709.7	12462.4	9087.3(292.14)	4960.0(160.00)	0.0	540.00	208.12	12.4	0.900	308.76	308.76	5.50	704.19
213		6	30	709.5	12462.4	6667.5(222.25)	6600.0(220.00)	0.0	540.00	284.90	17.6	0.900	300.24	300.24	5.50	709.82
214		7	31	710.0	12500.0	2843.0(91.71)	2790.0(90.00)	15.4	540.00	120.51	7.2	0.900	300.04	300.04	5.50	709.95
215		8	31	707.5	11665.5	1653.2(53.33)	2487.7(80.25)	0.0	540.00	106.92	6.4	0.900	301.53	301.53	5.50	708.94
216		9	30	705.8	10860.6	1602.6(53.42)	2407.5(80.25)	0.0	540.00	102.44	6.3	0.900	304.68	304.68	5.50	706.84
						3039.9(99.79)	3021.5(99.35)	1.3	534.26	125.70		0.899	944.6	944.6	5.50	701.20
217	1958	10	31	703.2	9896.8	1524.0(49.16)	2487.7(80.25)	0.0	540.00	104.59	6.2	0.900	308.26	308.26	5.50	704.51
218		11	30	700.6	8957.5	1468.2(48.94)	2407.5(80.25)	0.0	540.00	99.90	6.2	0.900	312.34	312.34	5.50	701.92
219		12	31	697.8	7976.3	1506.6(48.60)	2487.7(80.25)	0.0	540.00	101.80	6.1	0.900	316.71	316.71	5.50	699.21
220		1	31	694.9	6992.7	1504.1(48.52)	2487.7(80.25)	0.0	538.58	100.27	6.0	0.900	320.71	320.71	5.50	696.33
221		2	28	691.7	5982.7	1237.0(44.18)	2247.0(80.25)	0.0	524.88	88.97	6.1	0.898	318.13	318.13	5.50	693.28
222		3	31	691.5	5909.0	2414.0(77.87)	2487.7(80.25)	0.0	517.31	97.53	6.1	0.898	316.69	316.69	5.50	691.58
223		4	30	702.1	9481.0	5979.6(199.32)	2407.5(80.25)	0.0	540.00	97.27	6.0	0.900	320.76	320.76	5.50	696.77
224		5	31	709.7	12373.5	10642.3(343.50)	7750.0(250.00)	0.0	540.00	328.07	19.6	0.900	306.15	306.15	5.50	705.88
225		6	30	709.7	12361.9	8688.6(289.62)	8700.0(290.00)	0.0	540.00	375.26	23.2	0.900	300.46	300.46	5.50	709.67
226		7	31	709.5	12306.1	3664.2(118.20)	3720.0(120.00)	0.0	540.00	160.39	9.6	0.900	300.59	300.59	5.50	709.58
227		8	31	708.8	12036.4	2218.0(71.55)	2487.7(80.25)	0.0	540.00	107.05	6.4	0.900	301.19	301.19	5.50	709.17
228		9	30	707.3	11454.4	1825.5(60.85)	2407.5(80.25)	0.0	540.00	103.04	6.4	0.900	302.81	302.81	5.50	708.09
						3556.0(116.68)	3506.5(115.19)	0.0	536.73	147.01		0.900	944.0	944.0	5.50	702.17
229	1959	10	31	706.4	11078.7	2112.0(68.13)	2487.7(80.25)	0.0	540.00	105.83	6.3	0.900	304.66	304.66	5.50	706.86
230		11	30	705.2	10628.1	1956.9(65.23)	2407.5(80.25)	0.0	540.00	101.86	6.3	0.900	306.31	306.31	5.50	705.78
231		12	31	703.0	9827.1	1686.7(54.41)	2487.7(80.25)	0.0	540.00	104.38	6.2	0.900	308.89	308.89	5.50	704.11
232		1	31	703.0	9816.5	2477.3(79.91)	2487.7(80.25)	0.0	540.00	103.80	6.2	0.900	310.60	310.60	5.50	703.02
233		2	29	695.0	7050.5	3614.0(124.62)	6380.0(220.00)	0.0	540.00	260.81	16.7	0.900	317.03	317.03	5.50	699.02
234		3	31	682.4	3209.1	5859.0(189.00)	9700.4(312.92)	0.0	504.64	373.88	23.9	0.896	314.23	314.23	5.50	688.71
235		4	30	693.6	6571.7	12761.1(425.37)	9398.5(313.28)	0.0	501.40	360.65	24.0	0.896	313.60	313.60	5.50	687.97
236		5	31	707.6	11562.8	14721.5(474.89)	9730.4(313.88)	0.0	540.00	401.01	23.0	0.900	314.47	314.47	5.50	700.59
237		6	30	710.0	12500.0	9962.7(332.09)	9000.0(300.00)	25.5	540.00	386.57	23.9	0.900	301.73	301.73	5.50	708.81
238		7	31	709.5	12283.0	4743.0(155.00)	4960.0(160.00)	0.0	540.00	214.01	12.8	0.900	300.37	300.37	5.50	709.73
239		8	31	709.5	12318.3	2523.0(81.39)	2487.7(80.25)	0.0	540.00	107.22	6.4	0.900	300.71	300.71	5.50	709.50
240		9	30	707.6	11541.5	1630.7(54.36)	2407.5(80.25)	0.0	540.00	103.28	6.4	0.900	302.11	302.11	5.50	708.56
						5337.3(175.20)	5327.9(175.13)	2.1	533.84	218.61		0.899	9390.	9390.	5.50	702.72

Yusuifei Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H	S	GIN	gd	QOUT	P	E	T	ETG	QCR	QUP	LOSS	SUIT
				(M)	(M3/S)	(M3/S)	(M3/S)	(M3/S)	(MW)	(GMH)	(H)		(M3/S)	(M3/S)	(M)	(M)
241	1960	10	31	705.0	10532.6	1498.8(48.35)	2487.7(80.25)	0.0	540.00	105.52	6.3	0.900	305.55	305.55	5.50	706.28
242		11	30	702.2	9512.5	1367.5(45.58)	2407.5(80.25)	0.0	540.00	100.74	6.2	0.900	309.72	309.72	5.50	703.58
243		12	31	698.9	8593.0	1328.2(42.85)	2487.7(80.25)	0.0	540.00	102.50	6.1	0.900	314.56	314.56	5.50	700.53
244		1	31	694.9	7007.4	1142.1(36.84)	2487.7(80.25)	0.0	540.00	100.58	6.0	0.900	320.55	320.55	5.50	696.90
245		2	28	691.5	5915.9	1155.6(41.27)	2247.0(80.25)	0.0	524.50	88.93	6.1	0.898	318.06	318.06	5.50	693.19
246		3	31	689.2	5214.9	1786.8(57.64)	2487.7(80.25)	0.0	511.83	96.82	6.1	0.897	315.63	315.63	5.50	690.34
247		4	30	697.8	7981.1	1553.7(47.79)	2407.5(80.25)	0.0	525.78	93.44	6.1	0.899	318.50	318.50	5.50	693.48
248		5	31	707.6	11154.8	6075.3(195.98)	2487.7(80.25)	0.0	540.00	103.62	6.2	0.900	311.14	311.14	5.50	702.67
249		6	30	709.6	12337.6	4389.0(166.30)	3600.0(120.00)	0.0	540.00	154.46	9.5	0.900	302.06	302.06	5.50	708.59
250		7	31	707.5	11516.0	1666.2(53.75)	2487.7(80.25)	0.0	540.00	105.72	6.4	0.900	302.12	302.12	5.50	708.55
251		8	31	704.0	10183.2	1154.9(37.25)	2487.7(80.25)	0.0	540.00	105.24	6.3	0.900	306.35	306.35	5.50	705.75
252		9	30	700.4	8886.4	1110.8(37.03)	2407.5(80.25)	0.0	540.00	100.04	6.2	0.900	311.88	311.88	5.50	702.21
						2319.1(76.22)	2540.3(85.36)	0.0	535.18	103.05		0.900	9468.	9468.	5.50	701.01
253	1961	10	31	696.6	7576.7	1178.1(38.00)	2487.7(80.25)	0.0	540.00	101.44	6.1	0.900	317.85	317.85	5.50	698.52
254		11	30	693.3	6478.2	1309.0(43.63)	2407.5(80.25)	0.0	532.34	95.26	6.0	0.899	319.34	319.34	5.50	694.94
255		12	31	690.8	5708.8	1718.3(55.45)	2487.7(80.25)	0.0	519.36	97.79	6.1	0.898	317.08	317.08	5.50	692.04
256		1	31	687.4	4658.2	1437.2(46.36)	2487.7(80.25)	0.0	506.31	95.10	6.1	0.897	314.56	314.56	5.50	689.09
257		2	28	684.7	3865.3	1454.0(45.93)	2247.0(80.25)	0.0	492.89	88.22	6.2	0.895	311.91	311.91	5.50	686.02
258		3	31	690.2	5511.0	4143.5(133.66)	2487.7(80.25)	0.0	499.07	95.16	6.2	0.896	313.14	313.14	5.50	687.44
259		4	30	703.1	9838.8	6725.3(224.18)	2407.5(80.25)	0.0	539.93	97.20	6.0	0.900	320.97	320.97	5.50	696.63
260		5	31	709.5	12292.2	8653.4(279.14)	6200.0(200.00)	0.0	540.00	252.97	15.7	0.900	305.36	305.36	5.50	706.27
261		6	30	709.4	12260.5	9568.3(298.94)	6000.0(200.00)	0.0	540.00	258.51	16.0	0.900	300.80	300.80	5.50	709.44
262		7	31	709.6	12333.0	2882.5(92.99)	2790.0(90.00)	0.0	540.00	120.25	7.2	0.900	300.69	300.69	5.50	709.52
263		8	31	707.4	11457.1	1601.8(51.67)	2487.7(80.25)	0.0	540.00	108.69	6.4	0.900	302.19	302.19	5.50	708.51
264		9	30	705.1	110601.5	1541.9(51.40)	2407.5(80.25)	0.0	540.00	102.10	6.3	0.900	305.59	305.59	5.50	706.25
						3217.8(105.61)	3074.9(101.02)	0.0	537.49	123.64		0.899	9454.	9454.	5.50	698.72
265	1962	10	31	702.5	9636.5	1522.8(49.12)	2487.7(80.25)	0.0	540.00	104.22	6.2	0.900	309.35	309.35	5.50	703.81
266		11	30	700.0	8749.3	1520.3(50.68)	2407.5(80.25)	0.0	540.00	99.56	6.1	0.900	313.38	313.38	5.50	701.27
267		12	31	697.4	7826.1	1564.6(50.47)	2487.7(80.25)	0.0	540.00	101.53	6.1	0.900	317.56	317.56	5.50	698.70
268		1	31	694.8	6960.6	1622.2(52.33)	2487.7(80.25)	0.0	537.36	100.11	6.0	0.900	320.49	320.49	5.50	696.06
269		2	28	692.8	6315.5	1601.9(51.21)	2247.0(80.25)	0.0	527.02	89.22	6.0	0.899	318.54	318.54	5.50	693.76
270		3	31	670.0	0.0	2150.5(69.37)	8466.0(273.10)	0.0	472.84	312.06	21.3	0.893	307.87	307.87	5.50	681.38
271		4	30	674.6	1638.2	10638.2(354.61)	9000.0(300.00)	0.0	438.76	315.18	23.9	0.889	300.69	300.69	5.50	673.29
272		5	31	697.7	7948.1	15999.2(516.10)	9689.3(312.36)	0.0	497.83	369.99	24.0	0.896	312.89	312.89	5.50	687.15
273		6	30	710.0	12500.0	15709.9(523.66)	9278.3(309.28)	1879.6	540.00	388.80	24.0	0.900	309.28	309.28	5.50	703.86
274		7	31	709.5	12366.6	9106.6(293.76)	9500.0(300.00)	0.0	540.00	401.32	24.0	0.900	300.33	300.33	5.50	709.76
275		8	31	709.5	12282.1	4005.5(129.21)	4030.0(130.00)	0.0	540.00	173.67	10.4	0.900	300.73	300.73	5.50	709.48
276		9	30	708.3	11808.4	1933.8(64.46)	2407.5(80.25)	0.0	540.00	103.43	6.4	0.900	301.67	301.67	5.50	708.85
						5614.6(184.25)	5357.4(175.34)	156.6	521.15	213.26		0.898	9410.	9410.	5.50	697.28
277	1963	10	31	706.5	11133.2	1812.6(58.47)	2487.7(80.25)	0.0	540.00	106.10	6.3	0.900	303.87	303.87	5.50	707.38
278		11	30	704.5	10385.6	1659.9(55.33)	2407.5(80.25)	0.0	540.00	101.73	6.3	0.900	306.70	306.70	5.50	705.53
279		12	31	702.2	9511.1	1613.2(52.04)	2487.7(80.25)	0.0	540.00	103.98	6.2	0.900	310.07	310.07	5.50	703.53
280		1	31	699.5	8573.3	1550.0(50.00)	2487.7(80.25)	0.0	540.00	102.66	6.1	0.900	314.06	314.06	5.50	700.85
281		2	29	699.3	8509.8	2263.7(78.06)	2327.2(80.25)	0.0	540.00	95.34	6.1	0.900	316.34	316.34	5.50	699.44
282		3	31	702.7	9705.5	3683.4(118.82)	2487.7(80.25)	0.0	540.00	103.75	6.1	0.900	313.77	313.77	5.50	701.02
283		4	30	700.7	8997.6	8658.6(288.62)	9366.4(312.21)	0.0	540.00	388.24	24.0	0.900	312.66	312.66	5.50	701.72
284		5	31	707.7	11573.0	42139.3(391.59)	9543.9(308.51)	0.0	540.00	401.44	24.0	0.900	308.76	308.76	5.50	704.19
285		6	30	709.4	12276.5	9703.5(333.45)	9000.0(300.00)	0.0	540.00	386.06	23.8	0.900	302.13	302.13	5.50	708.55
286		7	31	709.7	12396.2	3219.7(103.86)	3100.0(100.00)	0.0	540.00	133.66	8.0	0.900	300.58	300.58	5.50	709.59
287		8	31	708.1	11739.7	1821.2(58.75)	2487.7(80.25)	0.0	540.00	102.90	6.4	0.900	301.60	301.60	5.50	708.90
288		9	30	706.1	10970.7	1648.5(54.95)	2407.5(80.25)	0.0	540.00	102.52	6.3	0.900	304.34	304.34	5.50	707.07
						4147.8(136.16)	4217.6(138.36)	0.0	540.00	177.62		0.900	9390.	9390.	5.50	704.80

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (CM)	S (M3/SD)	GIN (M3/SD)	GG (M3/SD)	GOUT (M3/SD)	P (MU)	E (GSMH)	T (H)	ETG (M3/S)	QUP (M3/S)	LOSS (CM)	SUII (CM)
289	1964	10	31	703.910140.5	1637.6(53.47)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	104.84	6.3	0.900	307.53	5.50	704.98
290		11	30	701.79349.4	1616.4(53.88)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	100.37	6.2	0.900	310.94	5.50	702.80
291		12	31	699.68013.5	1751.8(56.51)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	102.57	6.1	0.900	314.32	5.50	700.68
292		1	31	698.97682.5	1556.8(50.22)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	101.31	6.1	0.900	318.23	5.50	698.29
293		2	28	694.46855.7	1420.2(50.72)	2247.0(80.25)	2247.0(80.25)	0.0	535.68	90.23	6.0	0.899	320.17	5.50	695.69
294		3	31	696.77589.1	3221.2(103.91)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	110.07	6.3	0.900	320.06	5.50	695.55
295		4	30	704.310299.3	7810.2(260.34)	5100.0(170.00)	5100.0(170.00)	0.0	540.00	210.07	13.0	0.900	314.64	5.50	700.48
296		5	31	709.912458.8	11149.4(359.66)	8990.0(290.00)	8990.0(290.00)	0.0	540.00	382.89	22.9	0.900	304.29	5.50	707.10
297		6	30	709.312327.8	7869.0(262.30)	8100.0(270.00)	8100.0(270.00)	0.0	540.00	349.28	21.6	0.900	300.55	5.50	709.61
298		7	31	709.712381.5	5865.8(114.86)	3410.0(110.00)	3410.0(110.00)	0.0	540.00	146.97	8.8	0.900	300.69	5.50	709.51
299		8	31	708.011713.2	1819.4(58.69)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	106.88	6.4	0.900	301.66	5.50	708.86
300		9	30	705.710834.2	1528.5(50.95)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	103.42	6.3	0.900	304.64	5.50	706.87
					3747.0(122.97)	3758.4(123.50)	3758.4(123.50)	0.0	539.23	158.13		0.900	9422.		703.37
301	1965	10	31	704.510370.1	2023.7(65.28)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	104.91	6.3	0.900	307.33	5.50	705.11
302		11	30	703.29871.5	1908.9(63.63)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	100.87	6.2	0.900	309.33	5.50	703.83
303		12	31	701.29481.1	1797.4(57.98)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	103.37	6.2	0.900	311.89	5.50	702.20
304		1	31	699.98717.0	2023.7(65.28)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	102.53	6.1	0.900	314.46	5.50	700.59
305		2	28	699.08381.9	1911.8(68.28)	2247.0(80.25)	2247.0(80.25)	0.0	540.00	92.07	6.1	0.900	316.31	5.50	699.46
306		3	31	700.58848.1	2954.0(95.29)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	102.03	6.1	0.900	316.00	5.50	699.65
307		4	30	703.710063.4	7215.3(240.51)	6000.0(200.00)	6000.0(200.00)	0.0	540.00	249.05	15.4	0.900	312.22	5.50	701.99
308		5	31	709.712365.2	11753.6(379.15)	9451.9(304.90)	9451.9(304.90)	0.0	540.00	401.69	24.0	0.900	304.95	5.50	706.67
309		6	30	709.912438.8	6993.6(233.12)	6900.0(230.00)	6900.0(230.00)	0.0	540.00	297.78	18.4	0.900	300.30	5.50	709.78
310		7	31	709.712366.4	3317.6(107.02)	3410.0(110.00)	3410.0(110.00)	0.0	540.00	147.17	8.8	0.900	300.29	5.50	709.78
311		8	31	708.011692.8	1814.1(58.52)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	106.85	6.4	0.900	301.73	5.50	708.81
312		9	30	706.110984.1	1708.8(56.96)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	102.51	6.3	0.900	304.37	5.50	707.05
					3785.2(124.25)	3771.9(123.91)	3771.9(123.91)	0.0	540.00	159.12		0.900	9375.		704.58
313	1966	10	31	703.510016.9	1510.6(48.73)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	104.77	6.3	0.900	307.74	5.50	704.85
314		11	30	701.09075.8	1466.4(48.88)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	100.06	6.2	0.900	311.81	5.50	702.25
315		12	31	698.3157.9	1569.8(50.64)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	102.03	6.1	0.900	316.01	5.50	699.64
316		1	31	695.27108.9	1438.7(46.41)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	100.52	6.0	0.900	320.76	5.50	696.77
317		2	28	692.56186.8	1325.0(47.52)	2247.0(80.25)	2247.0(80.25)	0.0	527.12	89.24	6.0	0.899	318.56	5.50	693.78
318		3	31	690.95710.7	2051.6(66.18)	2487.7(80.25)	2487.7(80.25)	0.0	517.62	97.57	6.1	0.898	316.75	5.50	691.65
319		4	30	701.49238.8	5895.6(196.52)	2407.5(80.25)	2407.5(80.25)	0.0	537.89	96.95	6.0	0.900	320.59	5.50	696.18
320		5	31	709.612335.3	11776.6(379.89)	8680.0(280.00)	8680.0(280.00)	0.0	540.00	366.74	21.9	0.900	306.74	5.50	705.50
321		6	30	709.912461.6	7626.3(254.21)	7500.0(250.00)	7500.0(250.00)	0.0	540.00	323.63	20.0	0.900	300.35	5.50	709.75
322		7	31	709.912456.7	5885.0(199.84)	5890.0(190.00)	5890.0(190.00)	0.0	540.00	254.34	15.2	0.900	300.12	5.50	709.90
323		8	31	709.712369.9	2703.2(87.20)	2790.0(90.00)	2790.0(90.00)	0.0	540.00	120.41	7.2	0.900	300.29	5.50	709.78
324		9	30	709.212178.8	2216.4(73.88)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	103.72	6.4	0.900	300.81	5.50	709.63
					3788.8(124.14)	3690.0(121.00)	3690.0(121.00)	0.0	536.89	155.00		0.900	9429.		702.46
325	1967	10	31	707.711576.1	1885.1(60.81)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	106.65	6.4	0.900	302.30	5.50	708.43
326		11	30	706.610998.6	1830.0(61.00)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	102.44	6.3	0.900	304.58	5.50	706.91
327		12	31	705.810865.6	2354.8(75.96)	2487.7(80.25)	2487.7(80.25)	0.0	540.00	105.30	6.3	0.900	305.99	5.50	705.99
328		1	31	703.610068.5	1972.8(63.64)	2790.0(90.00)	2790.0(90.00)	0.0	540.00	117.42	7.0	0.900	307.94	5.50	704.72
329		2	29	686.04247.3	3188.8(109.96)	8990.0(310.00)	8990.0(310.00)	0.0	531.73	359.16	23.3	0.899	319.43	5.50	694.81
330		3	31	670.000.0	5004.9(161.45)	9252.2(308.46)	9252.2(308.46)	0.0	458.44	333.89	23.5	0.892	304.88	5.50	677.99
331		4	30	697.17743.5	17023.0(567.43)	9279.5(309.32)	9279.5(309.32)	0.0	482.22	346.68	24.0	0.894	309.77	5.50	683.56
332		5	31	710.012500.0	18726.6(604.75)	9609.2(309.75)	9609.2(309.75)	0.0	540.00	401.78	24.0	0.900	309.75	5.50	703.56
333		6	30	710.012500.0	10863.7(362.12)	8999.2(309.97)	8999.2(309.97)	0.0	540.00	388.80	24.0	0.900	299.97	5.50	710.00
334		7	31	710.012497.8	4957.8(159.93)	4980.0(160.00)	4980.0(160.00)	0.0	540.00	214.29	12.8	0.900	299.98	5.50	710.00
335		8	31	709.312222.9	2825.0(91.13)	3100.0(100.00)	3100.0(100.00)	0.0	540.00	133.70	8.0	0.900	300.49	5.50	709.65
336		9	30	709.912458.1	2642.7(88.09)	2407.5(80.25)	2407.5(80.25)	0.0	540.00	103.81	6.4	0.900	300.56	5.50	709.60
					6106.3(200.47)	5563.6(183.21)	5563.6(183.21)	519.4	527.70	226.16		0.899	9315.		702.10

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QQ (M3/SD)	ROUT (M3/SD)	P (MW)	E (GWH)	T (CH)	ETG (M3/S)	OCR (M3/S)	QUP (M3/S)	LOSS (M)	SUII (M)
337	1968	10	31	709.412273.6	2605.5(84.05)	2790.0(90.00)	0.0	0.0	540.00	120.34	7.2	0.900	300.47	300.47	5.50	709.66
338		11	30	710.012500.0	2665.5(88.85)	2407.5(80.25)	31.6	31.6	540.00	103.87	6.4	0.900	300.39	300.39	5.50	709.72
339		12	31	709.312235.3	2223.0(71.71)	2487.7(80.25)	0.0	0.0	540.00	107.31	6.4	0.900	300.46	300.46	5.50	709.67
340		1	31	707.911683.1	1935.6(62.44)	2487.7(80.25)	0.0	0.0	540.00	106.76	6.4	0.900	301.99	301.99	5.50	708.64
341		2	28	706.611173.8	1737.7(62.06)	2247.0(80.25)	0.0	0.0	540.00	95.78	6.3	0.900	304.03	304.03	5.50	707.28
342		3	31	699.28442.1	4398.3(141.88)	7130.0(230.00)	0.0	0.0	540.00	297.31	17.8	0.900	310.80	310.80	5.50	702.89
343		4	30	699.48515.6	3773.5(124.45)	9300.0(310.00)	0.0	0.0	540.00	380.65	23.5	0.900	316.63	316.63	5.50	699.26
344		5	31	709.912452.2	13480.3(434.85)	9543.7(307.86)	0.0	0.0	540.00	401.46	24.0	0.900	308.09	308.09	5.50	704.62
345		6	30	709.412266.5	6414.3(213.81)	6600.0(220.00)	0.0	0.0	540.00	284.65	17.6	0.900	300.49	300.49	5.50	709.65
346		7	31	709.812421.8	2845.3(95.01)	2790.0(90.00)	0.0	0.0	540.00	120.31	7.2	0.900	300.55	300.55	5.50	709.61
347		8	31	708.611957.1	2023.1(65.26)	2487.7(80.25)	0.0	0.0	540.00	107.37	6.4	0.900	301.13	301.13	5.50	709.22
348		9	30	707.411474.1	1924.5(64.15)	2407.5(80.25)	0.0	0.0	540.00	103.00	6.4	0.900	302.92	302.92	5.50	708.02
					4310.6(141.38)	4389.9(144.11)	2.6	2.6	540.00	185.71		0.900	9246.6	9246.6	5.50	707.35
349	1969	10	31	706.811240.4	2254.0(72.71)	2487.7(80.25)	0.0	0.0	540.00	105.95	6.3	0.900	304.30	304.30	5.50	707.09
350		11	30	705.010572.6	1739.7(57.99)	2407.5(80.25)	0.0	0.0	540.00	101.93	6.3	0.900	306.10	306.10	5.50	705.92
351		12	31	702.97922.0	1707.2(55.07)	2487.7(80.25)	0.0	0.0	540.00	104.31	6.2	0.900	309.08	309.08	5.50	703.99
352		1	31	700.58907.2	1403.0(51.71)	2487.7(80.25)	0.0	0.0	540.00	103.11	6.2	0.900	312.68	312.68	5.50	701.71
353		2	28	698.78283.1	1422.9(57.96)	2247.0(80.25)	0.0	0.0	540.00	92.13	6.1	0.900	316.10	316.10	5.50	699.59
354		3	31	699.98692.9	2897.6(93.47)	2487.7(80.25)	0.0	0.0	540.00	101.84	6.1	0.900	316.60	316.60	5.50	699.28
355		4	30	709.812416.2	7323.3(244.11)	3600.0(120.00)	0.0	0.0	540.00	151.60	9.4	0.900	307.77	307.77	5.50	704.83
356		5	31	709.412249.7	6543.5(204.63)	6510.0(210.00)	0.0	0.0	540.00	280.68	16.8	0.900	300.59	300.59	5.50	709.58
357		6	30	709.812428.8	4079.1(135.97)	3900.0(130.00)	0.0	0.0	540.00	168.16	10.4	0.900	300.57	300.57	5.50	709.60
358		7	31	709.412262.7	2321.6(74.89)	2487.7(80.25)	0.0	0.0	540.00	107.28	6.4	0.900	300.54	300.54	5.50	709.61
359		8	31	707.811616.0	1841.1(59.39)	2487.7(80.25)	0.0	0.0	540.00	106.73	6.4	0.900	302.07	302.07	5.50	708.58
360		9	30	705.810863.0	1854.5(55.15)	2407.5(80.25)	0.0	0.0	540.00	102.37	6.3	0.900	304.76	304.76	5.50	706.78
					2349.0(76.92)	2999.9(98.52)	0.0	0.0	540.00	127.17		0.900	9329.9	9329.9	5.50	703.55
361	1970	10	31	704.310279.6	1904.3(61.43)	2487.7(80.25)	0.0	0.0	540.00	104.86	6.3	0.900	307.46	307.46	5.50	705.03
362		11	30	702.39550.9	1878.8(55.96)	2407.5(80.25)	0.0	0.0	540.00	100.58	6.2	0.900	310.21	310.21	5.50	703.26
363		12	31	700.18782.4	1719.3(55.46)	2487.7(80.25)	0.0	0.0	540.00	102.85	6.1	0.900	313.49	313.49	5.50	701.20
364		1	31	697.37795.4	1500.7(48.41)	2487.7(80.25)	0.0	0.0	540.00	101.53	6.1	0.900	317.56	317.56	5.50	698.70
365		2	28	694.56887.6	1339.2(47.83)	2247.0(80.25)	0.0	0.0	536.65	90.34	6.0	0.900	320.35	320.35	5.50	695.90
366		3	31	696.17591.0	2891.2(96.49)	2487.7(80.25)	0.0	0.0	533.94	99.67	6.0	0.899	319.85	319.85	5.50	695.30
367		4	30	704.310285.1	5301.6(176.72)	2407.5(80.25)	0.0	0.0	540.00	99.00	6.1	0.900	315.15	315.15	5.50	700.17
368		5	31	709.412350.6	10325.5(326.63)	8060.0(260.00)	0.0	0.0	540.00	343.02	20.5	0.900	304.53	304.53	5.50	706.95
369		6	30	709.312225.5	7874.9(255.83)	7800.0(260.00)	0.0	0.0	540.00	336.11	20.7	0.900	300.76	300.76	5.50	709.47
370		7	31	710.012484.1	3358.5(108.34)	3100.0(100.00)	0.0	0.0	540.00	133.69	8.0	0.900	300.51	300.51	5.50	709.64
371		8	31	710.012500.0	2935.2(81.78)	2487.7(80.25)	31.5	31.5	540.00	107.47	6.4	0.900	300.00	300.00	5.50	709.98
372		9	30	707.911671.1	1578.6(52.62)	2407.5(80.25)	0.0	0.0	540.00	103.48	6.4	0.900	301.52	301.52	5.50	708.95
					3475.7(113.96)	3405.7(111.85)	2.6	2.6	539.22	143.55		0.900	9405.9	9405.9	5.50	703.71
373	1971	10	31	705.910885.9	1702.5(54.92)	2487.7(80.25)	0.0	0.0	540.00	105.84	6.3	0.900	304.62	304.62	5.50	706.88
374		11	30	703.710089.7	1611.3(53.71)	2407.5(80.25)	0.0	0.0	540.00	101.37	6.3	0.900	307.81	307.81	5.50	704.80
375		12	31	702.29513.1	1911.1(61.65)	2487.7(80.25)	0.0	0.0	540.00	103.77	6.2	0.900	310.69	310.69	5.50	702.96
376		1	31	699.48528.5	1503.2(48.49)	2487.7(80.25)	0.0	0.0	540.00	102.63	6.1	0.900	314.15	314.15	5.50	700.79
377		2	29	696.77618.5	1417.2(48.87)	2327.2(80.25)	0.0	0.0	540.00	94.67	6.0	0.900	318.59	318.59	5.50	698.07
378		3	31	694.57533.8	2403.1(77.52)	2487.7(80.25)	0.0	0.0	539.89	100.43	6.0	0.900	320.96	320.96	5.50	696.62
379		4	30	709.312329.4	7695.6(256.52)	3000.0(100.00)	0.0	0.0	540.00	125.11	7.7	0.900	310.77	310.77	5.50	702.91
380		5	31	710.012481.8	8352.3(268.14)	8060.0(260.00)	0.0	0.0	540.00	347.61	20.8	0.900	300.51	300.51	5.50	709.64
381		6	30	709.912457.5	6675.7(229.19)	8700.0(290.00)	0.0	0.0	540.00	375.73	23.2	0.900	300.08	300.08	5.50	709.92
382		7	31	710.012500.0	3780.8(121.96)	3720.0(120.00)	18.2	18.2	540.00	160.68	9.6	0.900	300.05	300.05	5.50	709.95
383		8	31	708.013095.1	2082.9(67.19)	2487.7(80.25)	0.0	0.0	540.00	107.22	6.4	0.900	300.72	300.72	5.50	709.49
384		9	30	708.011710.8	2023.2(67.44)	2407.5(80.25)	0.0	0.0	540.00	103.25	6.4	0.900	302.20	302.20	5.50	708.49
					3593.2(117.97)	3588.4(117.67)	1.5	1.5	539.99	152.36		0.900	9381.9	9381.9	5.50	703.04



Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	QQ (M3/SD)	QGUT (M3/SD)	P (MW)	E (GWH)	T (H)	ETG (M3/S)	GCR (M3/S)	GUP (M3/S)	LOSS (M)	SUII (M)
385	1972	10	31	706.711209.3	1936.2(64.07)	2487.7(80.25)	0.0	0.0	540.00	106.09	6.3	0.900	303.91	303.91	5.50	707.36
386		11	30	705.410718.7	1917.0(63.90)	2407.5(80.25)	0.0	0.0	540.00	102.01	6.3	0.900	305.86	305.86	5.50	706.07
387		12	31	703.0 9799.6	1568.6(50.60)	2487.7(80.25)	0.0	0.0	540.00	104.42	6.2	0.900	308.76	308.76	5.50	704.19
388		1	31	700.0 8734.4	1422.6(45.89)	2487.7(80.25)	0.0	0.0	540.00	91.87	6.1	0.900	313.05	313.05	5.50	701.47
389		2	28	698.1 8081.7	1594.3(56.94)	2247.0(80.25)	0.0	0.0	540.00	100.84	6.0	0.900	316.98	316.98	5.50	699.05
390		3	31	696.7 7589.5	1995.5(64.37)	2487.7(80.25)	0.0	0.0	540.00	98.57	6.1	0.900	319.73	319.73	5.50	697.39
391		4	30	702.0 9444.4	4262.4(142.08)	2407.5(80.25)	0.0	0.0	540.00	236.00	14.1	0.900	316.54	316.54	5.50	699.32
392		5	31	709.412272.2	8407.8(271.22)	5580.0(180.00)	0.0	0.0	540.00	323.58	20.0	0.900	306.42	306.42	5.50	705.70
393		6	30	710.012500.0	7734.1(257.80)	7500.0(230.00)	6.3	6.3	540.00	147.33	8.8	0.900	300.39	300.39	5.50	709.71
394		7	31	710.012500.0	3437.0(110.87)	3410.0(110.00)	27.0	27.0	540.00	106.94	6.4	0.900	299.97	299.97	5.50	710.00
395		8	31	708.011693.4	1681.1(54.23)	2487.7(80.25)	0.0	0.0	540.00	102.29	6.3	0.900	301.48	301.48	5.50	708.98
396		9	30	705.310649.8	1383.9(46.13)	2407.5(80.25)	0.0	0.0	540.00	153.24	6.3	0.900	305.01	305.01	5.50	706.63
					3115.9(102.34)	3199.9(105.19)	2.8	2.8	540.00				9372.		5.50	704.65
397	1973	10	31	702.9 9789.7	1607.7(51.86)	2487.7(80.25)	0.0	0.0	540.00	104.38	6.2	0.900	308.88	308.88	5.50	704.11
398		11	30	701.2 9157.6	1775.4(59.18)	2407.5(80.25)	0.0	0.0	540.00	99.96	6.2	0.900	312.12	312.12	5.50	702.06
399		12	31	698.7 8281.5	1611.7(51.99)	2487.7(80.25)	0.0	0.0	540.00	102.18	6.1	0.900	315.53	315.53	5.50	699.94
400		1	31	695.3 7152.5	1358.7(43.83)	2487.7(80.25)	0.0	0.0	540.00	100.64	6.0	0.900	320.35	320.35	5.50	697.02
401		2	28	692.4 6195.5	1290.0(46.07)	2247.0(80.25)	0.0	0.0	527.48	89.28	6.0	0.899	318.63	318.63	5.50	693.86
402		3	31	694.0 6699.8	2992.1(96.52)	2487.7(80.25)	0.0	0.0	524.38	98.44	6.1	0.898	318.04	318.04	5.50	693.17
403		4	30	699.8 8645.4	4373.1(145.77)	2407.5(80.25)	0.0	0.0	540.00	97.32	6.0	0.900	320.59	320.59	5.50	696.88
404		5	31	709.612332.1	8936.7(288.28)	5270.0(170.00)	0.0	0.0	540.00	221.76	13.2	0.900	307.99	307.99	5.50	704.69
405		6	30	709.612331.3	5089.2(169.64)	5100.0(170.00)	0.0	0.0	540.00	219.87	13.6	0.900	300.61	300.61	5.50	709.57
406		7	31	708.611944.2	2110.6(68.09)	2487.7(80.25)	0.0	0.0	540.00	106.99	6.4	0.900	301.34	301.34	5.50	709.08
407		8	31	706.211011.8	1555.3(50.17)	2487.7(80.25)	0.0	0.0	540.00	106.11	6.3	0.900	303.85	303.85	5.50	707.40
408		9	30	705.210650.6	2026.3(67.54)	2407.5(80.25)	0.0	0.0	540.00	101.82	6.3	0.900	306.44	306.44	5.50	705.69
					2893.9(94.91)	2897.2(95.21)	0.0	0.0	537.65	120.73			9464.		5.50	701.95
409	1974	10	31	702.4 9606.4	1463.6(47.21)	2487.7(80.25)	0.0	0.0	540.00	104.22	6.2	0.900	309.36	309.36	5.50	703.81
410		11	30	699.7 8623.7	1424.7(47.49)	2407.5(80.25)	0.0	0.0	540.00	99.45	6.1	0.900	313.73	313.73	5.50	701.05
411		12	31	696.6 7566.3	1430.3(46.14)	2487.7(80.25)	0.0	0.0	540.00	101.23	6.0	0.900	318.49	318.49	5.50	698.13
412		1	31	693.2 6450.0	1371.4(44.24)	2487.7(80.25)	0.0	0.0	532.07	99.43	6.0	0.899	319.49	319.49	5.50	694.88
413		2	28	690.0 5452.6	1249.6(44.63)	2247.0(80.25)	0.0	0.0	517.30	88.09	6.1	0.898	316.68	316.68	5.50	691.58
414		3	31	690.1 5482.1	2517.2(81.20)	2487.7(80.25)	0.0	0.0	510.42	96.64	6.1	0.897	315.36	315.36	5.50	690.02
415		4	30	704.710456.0	7381.4(246.05)	2407.5(80.25)	0.0	0.0	540.00	97.59	6.0	0.900	319.71	319.71	5.50	697.40
416		5	31	709.612344.4	7778.4(250.92)	5890.0(190.00)	0.0	0.0	540.00	250.94	15.0	0.900	304.19	304.19	5.50	707.17
417		6	30	709.312214.0	6169.6(205.65)	6300.0(210.00)	0.0	0.0	540.00	271.45	16.8	0.900	300.79	300.79	5.50	709.45
418		7	31	709.712389.2	2643.0(85.26)	2487.7(80.25)	0.0	0.0	540.00	107.21	6.4	0.900	300.74	300.74	5.50	709.48
419		8	31	707.111338.2	1476.7(47.64)	2487.7(80.25)	0.0	0.0	540.00	106.63	6.4	0.900	302.36	302.36	5.50	708.39
420		9	30	704.610409.2	1458.5(48.62)	2407.5(80.25)	0.0	0.0	540.00	101.90	6.3	0.900	306.20	306.20	5.50	705.85
					3030.4(99.59)	3048.8(100.21)	0.0	0.0	534.98	127.06			9466.		5.50	701.63
421	1975	10	31	702.5 9623.3	1701.9(54.90)	2487.7(80.25)	0.0	0.0	540.00	104.08	6.2	0.900	309.78	309.78	5.50	703.54
422		11	30	699.8 8677.0	1461.2(48.71)	2407.5(80.25)	0.0	0.0	540.00	99.50	6.1	0.900	313.57	313.57	5.50	701.15
423		12	31	696.5 7547.4	1358.1(45.81)	2487.7(80.25)	0.0	0.0	540.00	101.26	6.0	0.900	318.41	318.41	5.50	698.18
424		1	31	693.5 6552.3	1492.6(48.15)	2487.7(80.25)	0.0	0.0	532.66	99.51	6.0	0.899	317.61	317.61	5.50	695.02
425		2	29	690.6 5652.1	1427.1(49.21)	2327.2(80.25)	0.0	0.0	519.46	91.50	6.1	0.898	319.10	319.10	5.50	692.06
426		3	31	691.5 5864.9	2700.5(87.11)	2487.7(80.25)	0.0	0.0	514.62	97.18	6.1	0.897	316.17	316.17	5.50	690.97
427		4	30	702.0 9633.8	7668.9(255.63)	3900.0(130.00)	0.0	0.0	540.00	157.69	9.7	0.900	320.53	320.53	5.50	696.91
428		5	31	708.611936.9	11803.9(380.77)	9502.7(306.54)	0.0	0.0	540.00	401.58	24.0	0.900	306.68	306.68	5.50	705.54
429		6	30	709.912459.9	9525.0(317.50)	9000.0(300.00)	0.0	0.0	540.00	387.38	23.9	0.900	301.10	301.10	5.50	709.24
430		7	31	709.812404.4	4594.5(148.21)	4650.0(150.00)	0.0	0.0	540.00	200.73	12.0	0.900	300.22	300.22	5.50	709.83
431		8	31	708.812011.7	2095.0(67.58)	2487.7(80.25)	0.0	0.0	540.00	107.09	6.4	0.900	301.06	301.06	5.50	709.27
432		9	30	707.011303.1	1698.9(56.63)	2407.5(80.25)	0.0	0.0	540.00	102.92	6.4	0.900	303.15	303.15	5.50	707.86
					3960.6(129.85)	3886.1(127.38)	0.0	0.0	535.56	164.54			9475.		5.50	701.63

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/SD)	GIN (M3/SD)	GG (M3/SD)	QOUT (M3/SD)	P (MW)	E (GWH)	T (H)	ETG (M3/S)	QCR (M3/S)	QUP (M3/S)	LOSS (M)	SULLI (M)
433	1976	10	31	706.010920.8	2105.5( 67.92)	2487.7( 80.25)	0.0	0.0	540.00	105.61	6.3	0.900	305.27	305.27	5.50	706.46
434		11	30	704.110218.5	1705.2( 56.84)	2407.5( 80.25)	0.0	0.0	540.00	101.48	6.3	0.900	307.47	307.47	5.50	705.02
435		12	31	701.619300.0	1569.2( 50.62)	2487.7( 80.25)	0.0	0.0	540.00	103.71	6.2	0.900	310.89	310.89	5.50	702.84
436		1	31	698.41866.2	1373.9( 44.32)	2487.7( 80.25)	0.0	0.0	540.00	102.21	6.1	0.900	315.43	315.43	5.50	700.00
437		2	28	696.07369.1	1450.0( 51.07)	2247.0( 80.25)	0.0	0.0	540.00	90.99	6.0	0.900	320.03	320.03	5.50	697.21
438		3	31	690.07358.0	2476.6( 79.89)	2487.7( 80.25)	0.0	0.0	537.02	100.06	6.0	0.900	320.42	320.42	5.50	695.98
439		4	30	705.610787.6	5837.1(194.57)	2407.5( 80.25)	0.0	0.0	540.00	99.32	6.1	0.900	314.15	314.15	5.50	700.79
440		5	31	710.012497.2	10699.6(345.15)	8990.0(290.00)	0.0	0.0	540.00	384.22	23.0	0.900	303.24	303.24	5.50	707.80
441		6	30	709.512888.4	6991.2(233.04)	7200.0(240.00)	0.0	0.0	540.00	310.66	19.2	0.900	300.37	300.37	5.50	709.73
442		7	31	709.512885.3	3406.9(109.90)	3410.0(110.00)	0.0	0.0	540.00	146.94	8.8	0.900	300.76	300.76	5.50	709.47
443		8	31	708.411873.6	2076.3( 66.97)	2487.7( 80.25)	0.0	0.0	540.00	106.92	6.4	0.900	301.54	301.54	5.50	708.94
444		9	30	706.311050.4	1584.3( 52.81)	2407.5( 80.25)	0.0	0.0	540.00	102.67	6.3	0.900	303.91	303.91	5.50	707.36
					3438.0(112.76)	3459.0(113.52)	0.0	0.0	539.75	146.23		0.900	9385.	9385.	5.50	704.30
445	1977	10	31	704.610396.3	1833.6( 59.15)	2487.7( 80.25)	0.0	0.0	540.00	105.08	6.3	0.900	306.84	306.84	5.50	705.43
446		11	30	702.619653.5	1664.7( 55.49)	2407.5( 80.25)	0.0	0.0	540.00	100.73	6.2	0.900	309.74	309.74	5.50	703.56
447		12	31	699.71838.3	1472.5( 47.50)	2487.7( 80.25)	0.0	0.0	540.00	102.81	6.1	0.900	313.59	313.59	5.50	701.14
448		1	31	696.617575.6	1425.1( 45.97)	2487.7( 80.25)	0.0	0.0	540.00	101.25	6.0	0.900	318.43	318.43	5.50	698.17
449		2	28	695.17057.3	1728.7( 61.74)	2247.0( 80.25)	0.0	0.0	536.36	90.31	6.0	0.900	320.30	320.30	5.50	695.84
450		3	31	696.97677.3	3107.7(100.25)	2487.7( 80.25)	0.0	0.0	537.04	100.07	6.0	0.900	320.43	320.43	5.50	695.99
451		4	30	701.419466.6	7869.3(262.51)	6300.0(210.00)	0.0	0.0	540.00	257.75	15.9	0.900	316.77	316.77	5.50	699.18
452		5	31	710.012488.7	12439.7(401.28)	9197.0(296.70)	0.0	0.0	540.00	389.00	23.2	0.900	306.43	306.43	5.50	705.70
453		6	30	708.111731.2	823.5(274.75)	9000.0(300.00)	0.0	0.0	540.00	386.96	23.9	0.900	301.43	301.43	5.50	709.01
454		7	31	709.812428.4	4417.2(142.49)	3720.0(120.00)	0.0	0.0	540.00	159.88	9.6	0.900	301.54	301.54	5.50	708.94
455		8	31	709.112125.8	2185.2( 70.49)	2487.7( 80.25)	0.0	0.0	540.00	107.19	6.4	0.900	300.80	300.80	5.50	709.44
456		9	30	706.911396.3	1578.0( 52.60)	2407.5( 80.25)	0.0	0.0	540.00	102.99	6.4	0.900	302.94	302.94	5.50	708.00
					3997.0(131.17)	3976.5(130.72)	0.0	0.0	539.45	167.00		0.900	9425.	9425.	5.50	703.37
457	1978	10	31	704.810500.2	1691.7( 54.57)	2487.7( 80.25)	0.0	0.0	540.00	105.32	6.3	0.900	306.14	306.14	5.50	705.89
458		11	30	702.81925.6	1632.9( 54.53)	2407.5( 80.25)	0.0	0.0	540.00	100.85	6.2	0.900	309.37	309.37	5.50	703.80
459		12	31	700.41887.4	1649.5( 53.31)	2487.7( 80.25)	0.0	0.0	540.00	103.05	6.2	0.900	312.87	312.87	5.50	701.59
460		1	31	698.018042.3	1642.7( 52.99)	2487.7( 80.25)	0.0	0.0	540.00	101.80	6.1	0.900	316.72	316.72	5.50	699.21
461		2	28	696.617572.2	1776.9( 63.63)	2247.0( 80.25)	0.0	0.0	540.00	91.04	6.0	0.900	319.87	319.87	5.50	697.30
462		3	31	696.817634.5	2550.1( 82.26)	2487.7( 80.25)	0.0	0.0	540.00	100.48	6.0	0.900	320.88	320.88	5.50	696.70
463		4	30	704.510371.4	5144.4(171.48)	2407.5( 80.25)	0.0	0.0	540.00	99.25	6.1	0.900	314.38	314.38	5.50	700.65
464		5	31	709.412445.0	8693.6(280.44)	6820.0(220.00)	0.0	0.0	540.00	290.22	17.3	0.900	304.55	304.55	5.50	706.93
465		6	30	709.612346.7	8801.7(293.39)	8700.0(290.00)	0.0	0.0	540.00	374.93	23.1	0.900	300.73	300.73	5.50	709.49
466		7	31	709.412271.7	4575.0(147.58)	4350.0(150.00)	0.0	0.0	540.00	200.43	12.0	0.900	300.68	300.68	5.50	709.52
467		8	31	708.211777.3	1993.3( 64.30)	2487.7( 80.25)	0.0	0.0	540.00	106.85	6.4	0.900	301.74	301.74	5.50	708.80
468		9	30	705.710815.5	1445.7( 48.19)	2407.5( 80.25)	0.0	0.0	540.00	102.45	6.3	0.900	304.56	304.56	5.50	706.93
					3466.4(113.86)	3506.5(115.19)	0.0	0.0	540.00	148.05		0.900	9408.	9408.	5.50	703.90
469	1979	10	31	704.010181.8	1854.1( 59.81)	2487.7( 80.25)	0.0	0.0	540.00	104.76	6.3	0.900	307.76	307.76	5.50	704.84
470		11	30	705.210624.0	2845.7( 94.99)	2407.5( 80.25)	0.0	0.0	540.00	101.25	6.3	0.900	308.15	308.15	5.50	704.58
471		12	31	704.410350.0	2213.7( 71.41)	2487.7( 80.25)	0.0	0.0	540.00	104.75	6.3	0.900	307.80	307.80	5.50	704.81
472		1	31	702.719703.9	1841.7( 59.41)	2487.7( 80.25)	0.0	0.0	540.00	104.09	6.2	0.900	309.73	309.73	5.50	703.57
473		2	29	700.819025.0	1648.4( 56.84)	2327.2( 80.25)	0.0	0.0	540.00	96.48	6.2	0.900	312.60	312.60	5.50	701.75
474		3	31	698.118091.9	3406.9(109.90)	4340.0(140.00)	0.0	0.0	540.00	177.84	10.6	0.900	316.28	316.28	5.50	699.48
475		4	30	703.019801.5	11128.2(370.94)	9418.7(313.96)	0.0	0.0	540.00	388.08	24.0	0.900	314.53	314.53	5.50	700.55
476		5	31	709.912456.4	12117.5(390.89)	9462.6(305.24)	0.0	0.0	540.00	401.66	24.0	0.900	305.32	305.32	5.50	706.45
477		6	30	709.212189.1	6032.7(201.09)	6300.0(210.00)	0.0	0.0	540.00	271.59	16.8	0.900	300.63	300.63	5.50	709.56
478		7	31	709.712386.5	2987.5( 96.37)	2790.0( 90.00)	0.0	0.0	540.00	130.22	7.2	0.900	300.76	300.76	5.50	709.47
479		8	31	708.111738.6	1839.8( 59.35)	2487.7( 80.25)	0.0	0.0	540.00	106.90	6.4	0.900	301.60	301.60	5.50	708.90
480		9	30	705.710838.9	1507.8( 50.26)	2407.5( 80.25)	0.0	0.0	540.00	102.44	6.3	0.900	304.59	304.59	5.50	706.91
					4119.0(135.10)	4117.0(135.08)	0.0	0.0	540.00	173.34		0.900	9377.	9377.	5.50	705.07

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (CM)	S (M3/SD)	GIN (M3/SD)	QQ (M3/SD)	GOUT (M3/SD)	P (MW)	E (GMWH)	T (H)	ETG (M3/S)	QCR (M3/S)	QUP (M3/S)	LOSS (M)	SUII (M)
481	1980	10	31	703.9	10133.4	1782.2	( 57.49)	2487.7	( 80.25)	0.0	6.3	0.900	307.81	307.81	5.50	704.80
482	11	30	702.0	9447.9	1722.0	( 57.40)	2407.5	( 80.25)	0.0	104.74	6.2	0.900	310.74	310.74	5.50	702.93
483	12	31	699.9	8714.1	1754.0	( 56.58)	2487.7	( 80.25)	0.0	540.00	6.1	0.900	313.87	313.87	5.50	700.96
484	1	31	697.3	7799.9	1573.6	( 50.76)	2487.7	( 80.25)	0.0	540.00	6.1	0.900	317.71	317.71	5.50	698.61
485	2	28	694.6	6902.2	1349.3	( 48.39)	2247.0	( 80.25)	0.0	536.79	6.0	0.900	320.38	320.38	5.50	695.93
486	3	31	694.2	6763.0	2348.6	( 75.76)	2487.7	( 80.25)	0.0	529.75	6.0	0.899	319.06	319.06	5.50	694.37
487	4	30	699.5	8546.8	4191.3	(139.74)	2407.5	( 80.25)	0.0	540.00	10.9	0.900	320.71	320.71	5.50	696.80
488	5	31	708.7	11977.9	7771.1	(250.88)	4340.0	(140.00)	0.0	540.00	182.06	0.900	308.95	308.95	5.50	704.07
489	6	30	709.9	12269.3	9291.4	(309.71)	9000.0	(300.00)	0.0	540.00	387.03	0.900	301.37	301.37	5.50	709.05
490	7	31	709.9	12458.4	4529.1	(146.10)	4340.0	(140.00)	0.0	540.00	11.2	0.900	300.48	300.48	5.50	709.66
491	8	31	708.9	12061.3	2090.6	( 67.44)	2487.7	( 80.25)	0.0	540.00	6.4	0.900	300.86	300.86	5.50	709.40
492	9	30	707.0	11130.5	1678.7	( 55.89)	2407.5	( 80.25)	0.0	540.00	102.97	0.900	303.00	303.00	5.50	707.96
					3346.0	(109.64)	3399.0	(108.52)	0.0	538.88	138.55	0.900	944.0	944.0	5.50	702.88
493	1981	10	31	705.0	10368.8	1726.1	( 55.68)	2487.7	( 80.25)	0.0	6.3	0.900	305.93	305.93	5.50	706.03
494	11	30	703.4	9950.8	1789.5	( 59.65)	2407.5	( 80.25)	0.0	540.00	105.39	0.900	308.75	308.75	5.50	704.20
495	12	31	701.4	9234.1	1774.0	( 57.13)	2487.7	( 80.25)	0.0	540.00	101.06	0.900	311.60	311.60	5.50	702.38
496	1	31	698.9	8345.0	1598.7	( 51.57)	2487.7	( 80.25)	0.0	540.00	103.47	0.900	315.21	315.21	5.50	700.14
497	2	28	696.0	7368.6	1270.6	( 45.58)	2247.0	( 80.25)	0.0	540.00	102.29	0.900	319.65	319.65	5.50	697.44
498	3	31	693.8	6664.6	1783.7	( 57.54)	2487.7	( 80.25)	0.0	532.25	6.0	0.899	319.53	319.53	5.50	694.92
499	4	30	705.5	10756.9	7093.3	(236.41)	3000.0	(100.00)	0.0	540.00	99.45	0.900	315.94	315.94	5.50	699.69
500	5	31	710.0	12491.8	10843.8	(349.81)	9108.9	(293.84)	0.0	540.00	133.06	0.900	303.31	303.31	5.50	707.75
501	6	30	709.9	12450.9	6559.1	(318.64)	6600.0	(220.00)	0.0	540.00	23.3	0.900	300.08	300.08	5.50	709.93
502	7	31	709.9	12465.6	2804.7	( 90.47)	2790.0	( 90.00)	0.0	540.00	17.6	0.900	300.13	300.13	5.50	709.90
503	8	31	707.7	11606.5	1628.6	( 52.54)	2487.7	( 80.25)	0.0	540.00	7.2	0.900	301.71	301.71	5.50	709.83
504	9	30	705.3	10666.3	1467.3	( 48.94)	2407.5	( 80.25)	0.0	540.00	6.4	0.900	305.19	305.19	5.50	706.51
					3361.3	(110.31)	3416.6	(112.15)	0.0	539.35	144.14	0.900	939.4	939.4	5.50	703.97
505	1982	10	31	702.6	9684.7	1506.1	( 48.58)	2487.7	( 80.25)	0.0	6.2	0.900	309.11	309.11	5.50	703.96
506	11	30	700.0	8797.7	1452.6	( 48.42)	2407.5	( 80.25)	0.0	540.00	6.1	0.900	313.31	313.31	5.50	701.31
507	12	31	698.6	7574.1	1332.1	( 42.97)	2487.7	( 80.25)	0.0	540.00	6.1	0.900	318.22	318.22	5.50	698.30
508	1	31	692.7	6296.8	1210.5	( 39.05)	2487.7	( 80.25)	0.0	531.04	6.0	0.899	319.30	319.30	5.50	694.66
509	2	28	689.1	5178.8	1129.0	( 40.32)	2247.0	( 80.25)	0.0	534.26	6.1	0.897	316.10	316.10	5.50	690.89
510	3	31	687.3	4653.0	1982.0	( 63.29)	2487.7	( 80.25)	0.0	502.47	6.1	0.896	313.81	313.81	5.50	688.22
511	4	30	692.3	6159.8	3914.3	(130.48)	2407.5	( 80.25)	0.0	509.47	6.1	0.897	315.17	315.17	5.50	689.80
512	5	31	703.9	10138.9	6466.8	(208.61)	2487.7	( 80.25)	0.0	540.00	6.0	0.900	318.60	318.60	5.50	698.07
513	6	30	709.9	12455.1	5316.2	(177.21)	3000.0	(100.00)	0.0	540.00	7.9	0.900	304.63	304.63	5.50	706.88
514	7	31	709.9	12456.5	2489.2	( 80.30)	2487.7	( 80.25)	0.0	540.00	127.63	0.900	300.14	300.14	5.50	709.89
515	8	31	707.1	11348.4	1379.6	( 44.50)	2487.7	( 80.25)	0.0	540.00	6.4	0.900	302.22	302.22	5.50	708.48
516	9	30	704.5	10386.8	1426.0	( 47.53)	2407.5	( 80.25)	0.0	540.00	6.4	0.900	306.30	306.30	5.50	705.78
					2465.4	( 80.94)	2490.3	( 81.90)	0.0	531.44	103.17	0.899	947.1	947.1	5.50	699.69
517	1983	10	31	702.0	9452.1	1573.0	( 50.74)	2487.7	( 80.25)	0.0	6.2	0.900	310.24	310.24	5.50	703.25
518	11	30	702.7	9745.9	2672.3	( 89.08)	2407.5	( 80.25)	0.0	540.00	6.2	0.900	311.63	311.63	5.50	702.37
519	12	31	701.7	9388.5	2099.3	( 67.72)	2487.7	( 80.25)	0.0	540.00	6.2	0.900	311.90	311.90	5.50	702.19
520	1	31	700.4	8868.8	2028.0	( 65.42)	2487.7	( 80.25)	0.0	540.00	6.1	0.900	313.79	313.79	5.50	701.01
521	2	29	697.8	7964.2	1422.7	( 49.06)	2327.2	( 80.25)	0.0	540.00	6.1	0.900	316.95	316.95	5.50	699.07
522	3	31	682.6	3278.7	2444.5	( 78.85)	2130.0	( 80.25)	0.0	511.20	17.5	0.897	315.51	315.51	5.50	690.20
523	4	30	684.8	3910.4	9884.7	(359.49)	9253.0	(308.43)	0.0	482.96	23.9	0.894	309.92	309.92	5.50	683.73
524	5	31	709.6	12321.1	18308.6	(590.60)	9897.8	(319.29)	0.0	540.00	15.2	0.900	320.06	320.06	5.50	697.19
525	6	30	709.9	12302.5	5681.4	(189.38)	5700.0	(190.00)	0.0	540.00	23.9	0.900	300.67	300.67	5.50	709.53
526	7	31	709.9	12129.9	2314.1	( 74.65)	2487.7	( 80.25)	0.0	540.00	6.4	0.900	301.03	301.03	5.50	709.29
527	8	31	709.9	12354.6	2713.4	( 87.53)	2487.7	( 80.25)	0.0	540.00	107.10	0.900	300.93	300.93	5.50	709.35
528	9	30	708.7	11967.6	2020.5	( 67.55)	2407.5	( 80.25)	0.0	540.00	6.4	0.900	301.23	301.23	5.50	709.15
					4430.2	(144.99)	4296.8	(140.81)	0.0	532.85	174.41	0.899	943.9	943.9	5.50	701.36

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H	S	GIN	GD	QOUT	P	E	T	ETG	GCR	GUP	LQSS	SUII
				(M)	(M3/SD)	(M3/SD)	(M3/SD)	(M3/SD)	(MW)	(GW/H)	(CH)	(M3/S)	(M3/S)	(M)	(M)	(M)
529	1984	10	31	707.4	11471.3	1991.4	(64.24)	2487.7	(80.25)	0.0	6.4	0.900	302.90	302.90	5.50	708.02
530		11	30	707.2	11387.5	2335.7	(77.79)	2407.5	(80.25)	0.0	6.3	0.900	304.00	304.00	5.50	707.29
531		12	31	707.0	11350.8	2421.1	(78.10)	2437.7	(80.25)	0.0	6.3	0.900	304.38	304.28	5.50	707.11
532		1	31	705.8	10862.7	2019.6	(65.15)	2437.7	(80.25)	0.0	6.3	0.900	305.33	305.33	5.50	706.42
533		2	28	704.0	10196.9	1581.2	(56.47)	2247.0	(80.25)	0.0	6.3	0.900	307.53	307.63	5.50	704.92
534		3	31	703.5	9991.0	2281.9	(73.61)	2487.7	(80.25)	0.0	6.2	0.900	309.44	309.44	5.50	703.76
535		5	31	709.6	12353.2	11062.2	(368.74)	8700.0	(4290.00)	0.0	22.8	0.900	305.12	305.12	5.50	706.55
536		5	31	709.7	12376.2	9012.9	(290.74)	8990.0	(4290.00)	0.0	23.2	0.900	300.47	300.47	5.50	709.66
537		6	30	709.4	12265.2	2296.5	(76.53)	2407.5	(80.25)	0.0	6.4	0.900	300.63	300.63	5.50	709.55
538		7	31	706.6	11150.4	1373.0	(44.29)	2487.7	(80.25)	0.0	6.4	0.900	302.96	302.96	5.50	707.98
539		8	31	702.4	9604.4	941.8	(30.38)	2487.7	(80.25)	0.0	6.2	0.900	308.30	308.30	5.50	704.49
540		9	30	699.8	8652.2	1455.3	(48.51)	2407.5	(80.25)	0.0	6.1	0.900	313.67	313.67	5.50	701.09
						3250.9	(106.21)	3507.2	(115.21)	0.0		0.900	9288.0	9288.0	5.50	706.40
541	1985	10	31	698.6	8264.4	2099.9	(67.74)	2487.7	(80.25)	0.0	6.1	0.900	316.73	316.73	5.50	699.20
542		11	30	697.0	7706.4	1849.5	(61.65)	2407.5	(80.25)	0.0	6.0	0.900	319.00	319.00	5.50	697.82
543		12	31	696.4	7497.1	2278.5	(73.50)	2487.7	(80.25)	0.0	6.0	0.900	320.89	320.89	5.50	696.70
544		1	31	694.7	6942.6	1933.2	(62.36)	2487.7	(80.25)	0.0	6.0	0.899	320.05	320.05	5.50	695.54
545		2	28	692.6	6295.2	1569.7	(56.06)	2247.0	(80.25)	0.0	6.0	0.899	318.45	318.45	5.50	693.65
546		3	31	693.7	6638.9	2851.4	(91.98)	2487.7	(80.25)	0.0	6.1	0.898	318.04	318.04	5.50	693.17
547		4	30	703.7	10075.2	11246.4	(374.88)	7800.0	(4260.00)	0.0	19.7	0.900	317.52	317.52	5.50	698.72
548		5	31	709.9	12456.3	11531.1	(371.97)	9450.0	(4295.16)	0.0	23.2	0.900	304.75	304.75	5.50	706.80
549		6	30	709.8	12423.6	8967.3	(298.91)	9000.0	(4300.00)	0.0	24.0	0.900	300.19	300.19	5.50	709.83
550		7	31	708.6	11942.4	2026.5	(65.37)	2487.7	(80.25)	0.0	6.4	0.900	301.11	301.11	5.50	709.25
551		8	31	704.3	10306.3	831.7	(26.83)	2487.7	(80.25)	0.0	6.3	0.900	305.23	305.23	5.50	706.49
552		9	30	702.0	9460.3	1461.5	(42.05)	2407.5	(80.25)	0.0	6.2	0.900	310.35	310.35	5.50	703.18
						4062.2	(133.61)	3994.9	(131.45)	0.0		0.900	9510.0	9510.0	5.50	700.86
553	1986	10	31	702.2	9527.9	2555.3	(82.43)	2487.7	(80.25)	0.0	6.2	0.900	312.02	312.02	5.50	702.12
554		11	30	703.2	9900.2	2779.8	(92.66)	2407.5	(80.25)	0.0	6.2	0.900	311.07	311.07	5.50	702.72
555		12	31	702.9	9752.6	2380.2	(76.78)	2487.7	(80.25)	0.0	6.2	0.900	310.49	310.49	5.50	703.08
556		1	31	701.5	9278.0	1973.1	(63.63)	2487.7	(80.25)	0.0	6.2	0.900	311.85	311.85	5.50	702.23
557		2	28	692.4	6218.5	1980.4	(70.73)	5040.0	(180.00)	0.0	13.5	0.900	320.41	320.41	5.50	696.98
558		3	31	670.0	0.0	3048.7	(98.99)	9287.0	(4299.59)	0.0	23.4	0.893	307.73	307.73	5.50	681.22
559		4	30	680.8	2767.9	11810.5	(393.88)	9048.6	(4301.62)	0.0	23.9	0.899	302.58	302.58	5.50	675.40
560		5	31	710.0	12500.0	25960.4	(837.43)	9917.8	(4319.93)	6310.4	24.0	0.899	319.93	319.93	5.50	695.40
561		6	30	710.0	12500.0	6623.4	(230.78)	6600.0	(4220.00)	23.4	17.6	0.900	299.97	299.97	5.50	710.00
562		7	31	708.1	11732.6	1720.4	(55.50)	2487.7	(80.25)	0.0	6.4	0.900	301.40	301.40	5.50	709.03
563		8	31	705.3	10678.9	1434.1	(46.26)	2487.7	(80.25)	0.0	6.3	0.900	304.92	304.92	5.50	706.69
564		9	30	703.1	9869.8	1598.4	(53.28)	2407.5	(80.25)	0.0	6.2	0.900	308.69	308.69	5.50	704.23
						5324.2	(174.36)	4762.3	(156.91)	527.8		0.899	9405.0	9405.0	5.50	699.09
565	1987	10	31	701.3	9208.6	1826.5	(58.92)	2487.7	(80.25)	0.0	6.2	0.900	311.83	311.83	5.50	702.24
566		11	30	700.6	8963.8	2162.7	(72.09)	2407.5	(80.25)	0.0	6.1	0.900	313.84	313.84	5.50	700.98
567		12	31	699.5	8593.9	2087.8	(67.53)	2487.7	(80.25)	0.0	6.1	0.900	315.31	315.31	5.50	700.07
568		1	31	697.7	7956.3	1880.1	(60.65)	2487.7	(80.25)	0.0	6.1	0.900	317.68	317.68	5.50	698.62
569		2	29	693.0	6397.8	1631.5	(56.26)	3190.0	(110.00)	0.0	8.3	0.899	319.91	319.91	5.50	695.38
570		3	31	670.0	0.0	2943.1	(94.94)	9341.0	(4301.32)	0.0	23.5	0.893	307.98	307.98	5.50	681.51
571		4	30	679.4	2396.1	11424.9	(380.83)	9028.8	(4300.96)	0.0	24.0	0.899	317.77	317.77	5.50	674.72
572		5	31	706.3	11038.7	18489.9	(596.45)	9847.4	(4317.66)	0.0	23.9	0.898	317.77	317.77	5.50	692.85
573		6	30	710.0	12500.0	16685.1	(556.17)	9082.3	(4302.74)	6141.5	24.0	0.900	302.74	302.74	5.50	708.13
574		7	31	709.3	12230.0	7480.0	(241.29)	7750.0	(4250.00)	0.0	20.0	0.900	300.47	300.47	5.50	709.66
575		8	31	709.0	12091.4	2349.2	(75.78)	2487.7	(80.25)	0.0	6.4	0.900	301.23	301.23	5.50	709.15
576		9	30	708.6	11934.5	2250.6	(75.02)	2407.5	(80.25)	0.0	6.4	0.900	301.79	301.79	5.50	708.77
						3934.3	(134.63)	5250.4	(172.02)	511.8		0.898	9436.0	9436.0	5.50	698.51

Yusufeli Project

\*\*\* OPTIMAL SCHEDULE \*\*\*

NO.	YEAR	MON	DAY	H (M)	S (M3/S)	GIN (M3/SD)	QG (M3/SD)	GOUT (M3/SD)	P (MW)	E (GWH)	T (H)	ETG (M3/S)	QCR (M3/S)	QUP (M3/S)	LOSS (M)	SUII (M)
577	1988	10	31	709.712373.2	2926.4( 94.40)	2487.7( 80.25)	0.0	0.0	540.00	107.02	6.4	0.900	301.26	301.26	5.50	709.13
578		11	30	710.012500.0	2535.9( 84.53)	2407.5( 80.25)	1.6	1.6	540.00	103.93	6.4	0.900	300.21	300.21	5.50	709.84
579		12	31	709.312226.3	2516.3( 81.17)	2790.0( 90.00)	0.0	0.0	540.00	120.34	7.2	0.900	300.48	300.48	5.50	709.66
580		1	31	708.211790.4	2051.9( 66.19)	2487.7( 80.25)	0.0	0.0	540.00	106.83	6.4	0.900	301.80	301.80	5.50	708.76
581		2	28	705.910904.2	1360.8( 48.60)	2247.0( 80.25)	0.0	0.0	540.00	95.68	6.3	0.900	304.36	304.36	5.50	707.06
582		3	31	705.010554.2	3370.0(108.71)	3720.0(120.00)	0.0	0.0	540.00	157.14	9.4	0.900	306.81	306.81	5.50	705.45
583		4	30	709.812412.4	10687.8(356.26)	8829.6(294.32)	0.0	0.0	540.00	376.58	23.2	0.900	303.87	303.87	5.50	707.39
584		5	31	710.012482.5	3480.1(112.26)	3410.0(110.00)	0.0	0.0	540.00	147.23	8.8	0.900	300.17	300.17	5.50	709.87
585		6	30	707.111347.9	1272.9( 42.43)	2407.5( 80.25)	0.0	0.0	540.00	103.26	6.4	0.900	302.17	302.17	5.50	708.51
586		7	31	702.819277.2	867.1( 27.97)	2487.7( 80.25)	0.0	0.0	540.00	104.80	6.3	0.900	307.64	307.64	5.50	704.91
587		8	31	698.119664.7	825.2( 26.62)	2487.7( 80.25)	0.0	0.0	540.00	102.43	6.1	0.900	314.76	314.76	5.50	700.41
588		9	30	694.016725.8	1068.6( 35.62)	2407.5( 80.25)	0.0	0.0	537.31	98.87	6.0	0.900	320.48	320.48	5.50	696.05
					2746.9( 90.40)	3180.6(104.69)	0.1	0.1	539.78	135.18		0.900	9287.	9287.	5.50	706.42
589	1989	10	31	692.616279.4	2041.3( 65.85)	2487.7( 80.25)	0.0	0.0	525.15	98.54	6.1	0.899	318.19	318.19	5.50	693.34
590		11	30	691.615940.1	2068.2( 68.94)	2407.5( 80.25)	0.0	0.0	519.63	94.67	6.1	0.898	317.13	317.13	5.50	692.10
591		12	31	691.515907.8	2455.5( 79.21)	2487.7( 80.25)	0.0	0.0	517.00	97.49	6.1	0.898	316.63	316.63	5.50	691.51
592		1	31	688.815082.9	1662.8( 53.64)	2487.7( 80.25)	0.0	0.0	510.82	96.69	6.1	0.897	315.43	315.43	5.50	690.11
593		2	28	685.414080.2	1244.3( 44.44)	2247.0( 80.25)	0.0	0.0	497.56	85.77	6.2	0.896	312.84	312.84	5.50	687.09
594		3	31	677.41865.1	3052.9( 98.48)	5270.0(170.00)	0.0	0.0	473.07	194.32	13.3	0.893	307.91	307.91	5.50	681.43
595		4	30	687.114585.0	11964.6(398.82)	9242.6(308.09)	0.0	0.0	476.73	342.61	24.0	0.894	308.66	308.66	5.50	682.28
596		5	31	710.012500.0	17784.1(573.68)	9823.9(316.90)	45.3	45.3	540.00	400.64	23.9	0.900	317.78	317.78	5.50	698.56
597		6	30	710.012500.0	5264.1(175.47)	5264.1(175.47)	0.0	0.0	540.00	227.43	14.0	0.900	299.97	299.97	5.50	710.00
598		7	31	710.012500.0	2069.0( 66.74)	2069.0( 66.74)	0.0	0.0	480.59	89.39	6.0	0.900	299.97	299.97	5.50	710.00
599		8	31	710.012500.0	852.2( 27.49)	852.2( 27.49)	0.0	0.0	197.95	36.82	6.0	0.900	299.97	299.97	5.50	710.00
600		9	30	710.012500.0	999.3( 33.31)	999.3( 33.31)	0.0	0.0	239.85	43.17	6.0	0.900	299.97	299.97	5.50	710.00
					4288.2(140.51)	3803.2(124.94)	3.8	3.8	459.86	150.63		0.898	9415.	8422.	5.50	696.37

45373.6(\*\*\*\*\*J44796.5(\*\*\*\*\*)) 577.3 6407.53 1861.53 0.899112762.112524. 5.50 702.60

N = 1 PMAX = 540.00 E = 1861.41 ESUM = 1861.53  
 PF100 = 197.95 PF95 = 504.47 PF90 = 522.74  
 EF100 = 433.51 EF95 = 1104.79 EF90 = 1144.80  
 ES100 = 1427.91 ES95 = 756.62 ES90 = 716.62  
 UF = 39.342 (%) GUMAX = 320.966

\*\*\* SEMW \*\*\* N = 1

1	540.00	2	540.00	3	540.00	4	540.00	5	540.00	6	540.00	7	540.00	8	540.00	9	540.00	10	540.00
11	540.00	12	540.00	13	540.00	14	540.00	15	540.00	16	540.00	17	540.00	18	540.00	19	540.00	20	540.00
21	540.00	22	540.00	23	540.00	24	540.00	25	540.00	26	540.00	27	540.00	28	540.00	29	540.00	30	540.00
31	540.00	32	540.00	33	540.00	34	540.00	35	540.00	36	540.00	37	540.00	38	540.00	39	540.00	40	540.00
41	540.00	42	540.00	43	540.00	44	540.00	45	540.00	46	540.00	47	540.00	48	540.00	49	540.00	50	540.00
51	540.00	52	540.00	53	540.00	54	540.00	55	540.00	56	540.00	57	540.00	58	540.00	59	540.00	60	540.00
61	540.00	62	540.00	63	540.00	64	540.00	65	540.00	66	540.00	67	540.00	68	540.00	69	540.00	70	540.00
71	540.00	72	540.00	73	540.00	74	540.00	75	540.00	76	540.00	77	540.00	78	540.00	79	540.00	80	540.00
81	540.00	82	540.00	83	540.00	84	540.00	85	540.00	86	540.00	87	540.00	88	540.00	89	540.00	90	540.00
91	540.00	92	540.00	93	540.00	94	540.00	95	540.00	96	540.00	97	540.00	98	540.00	99	540.00	100	540.00
101	540.00	102	540.00	103	540.00	104	540.00	105	540.00	106	540.00	107	540.00	108	540.00	109	540.00	110	540.00
111	540.00	112	540.00	113	540.00	114	540.00	115	540.00	116	540.00	117	540.00	118	540.00	119	540.00	120	540.00
121	540.00	122	540.00	123	540.00	124	540.00	125	540.00	126	540.00	127	540.00	128	540.00	129	540.00	130	540.00
131	540.00	132	540.00	133	540.00	134	540.00	135	540.00	136	540.00	137	540.00	138	540.00	139	540.00	140	540.00
141	540.00	142	540.00	143	540.00	144	540.00	145	540.00	146	540.00	147	540.00	148	540.00	149	540.00	150	540.00
151	540.00	152	540.00	153	540.00	154	540.00	155	540.00	156	540.00	157	540.00	158	540.00	159	540.00	160	540.00
161	540.00	162	540.00	163	540.00	164	540.00	165	540.00	166	540.00	167	540.00	168	540.00	169	540.00	170	540.00

Yusufeli Project

171	540.00	172	540.00	173	540.00	174	540.00	175	540.00	176	540.00	177	540.00	178	540.00	179	540.00	180	540.00
181	540.00	182	540.00	183	540.00	184	540.00	185	540.00	186	540.00	187	540.00	188	540.00	189	540.00	190	540.00
191	540.00	192	540.00	193	540.00	194	540.00	195	540.00	196	540.00	197	540.00	198	540.00	199	540.00	200	540.00
201	540.00	202	540.00	203	540.00	204	540.00	205	540.00	206	540.00	207	540.00	208	540.00	209	540.00	210	540.00
211	540.00	212	540.00	213	540.00	214	540.00	215	540.00	216	540.00	217	540.00	218	540.00	219	540.00	220	540.00
221	540.00	222	540.00	223	540.00	224	540.00	225	540.00	226	540.00	227	540.00	228	540.00	229	540.00	230	540.00
231	540.00	232	540.00	233	540.00	234	540.00	235	540.00	236	540.00	237	540.00	238	540.00	239	540.00	240	540.00
241	540.00	242	540.00	243	540.00	244	540.00	245	540.00	246	540.00	247	540.00	248	540.00	249	540.00	250	540.00
251	540.00	252	540.00	253	540.00	254	540.00	255	540.00	256	540.00	257	540.00	258	540.00	259	540.00	260	540.00
261	540.00	262	540.00	263	540.00	264	540.00	265	540.00	266	540.00	267	540.00	268	540.00	269	540.00	270	540.00
271	540.00	272	540.00	273	540.00	274	540.00	275	540.00	276	540.00	277	540.00	278	540.00	279	540.00	280	540.00
281	540.00	282	540.00	283	540.00	284	540.00	285	540.00	286	540.00	287	540.00	288	540.00	289	540.00	290	540.00
291	540.00	292	540.00	293	540.00	294	540.00	295	540.00	296	540.00	297	540.00	298	540.00	299	540.00	300	540.00
301	540.00	302	540.00	303	540.00	304	540.00	305	540.00	306	540.00	307	540.00	308	540.00	309	540.00	310	540.00
311	540.00	312	540.00	313	540.00	314	540.00	315	540.00	316	540.00	317	540.00	318	540.00	319	540.00	320	540.00
321	540.00	322	540.00	323	540.00	324	540.00	325	540.00	326	540.00	327	540.00	328	540.00	329	540.00	330	540.00
331	540.00	332	540.00	333	540.00	334	540.00	335	540.00	336	540.00	337	540.00	338	540.00	339	540.00	340	540.00
341	540.00	342	540.00	343	540.00	344	540.00	345	540.00	346	540.00	347	540.00	348	540.00	349	540.00	350	540.00
351	540.00	352	540.00	353	540.00	354	540.00	355	540.00	356	540.00	357	540.00	358	540.00	359	540.00	360	540.00
361	540.00	362	540.00	363	540.00	364	540.00	365	540.00	366	540.00	367	540.00	368	540.00	369	540.00	370	540.00
371	540.00	372	540.00	373	540.00	374	540.00	375	540.00	376	540.00	377	540.00	378	540.00	379	540.00	380	540.00
381	540.00	382	540.00	383	540.00	384	540.00	385	540.00	386	540.00	387	540.00	388	540.00	389	540.00	390	540.00
391	540.00	392	540.00	393	540.00	394	540.00	395	540.00	396	540.00	397	540.00	398	540.00	399	540.00	400	540.00
401	540.00	402	540.00	403	540.00	404	540.00	405	540.00	406	540.00	407	540.00	408	540.00	409	540.00	410	540.00
411	540.00	412	540.00	413	540.00	414	540.00	415	540.00	416	540.00	417	540.00	418	540.00	419	540.00	420	540.00
421	540.00	422	540.00	423	540.00	424	540.00	425	540.00	426	540.00	427	540.00	428	540.00	429	540.00	430	540.00
431	540.00	432	540.00	433	540.00	434	540.00	435	540.00	436	540.00	437	540.00	438	540.00	439	540.00	440	540.00
441	540.00	442	540.00	443	540.00	444	540.00	445	540.00	446	540.00	447	540.00	448	540.00	449	540.00	450	540.00
451	540.00	452	540.00	453	540.00	454	540.00	455	540.00	456	540.00	457	540.00	458	540.00	459	540.00	460	540.00
461	540.00	462	540.00	463	540.00	464	540.00	465	540.00	466	540.00	467	540.00	468	540.00	469	540.00	470	540.00
471	540.00	472	540.00	473	540.00	474	540.00	475	540.00	476	540.00	477	540.00	478	540.00	479	540.00	480	540.00
481	540.00	482	540.00	483	539.93	484	539.89	485	538.81	486	538.80	487	538.58	488	538.09	489	537.89	490	537.81
491	537.36	492	537.31	493	537.04	494	537.02	495	536.99	496	536.79	497	536.74	498	536.65	499	536.36	500	535.84
501	535.68	502	535.05	503	535.04	504	534.80	505	534.39	506	534.30	507	533.94	508	533.30	509	532.66	510	532.44
511	532.34	512	532.25	513	532.11	514	532.07	515	531.73	516	531.63	517	531.10	518	531.04	519	529.75	520	529.49
521	529.24	522	528.66	523	527.48	524	527.26	525	527.12	526	527.02	527	527.02	528	526.97	529	526.54	530	525.78
531	525.15	532	524.88	533	524.64	534	524.50	535	524.38	536	524.38	537	524.32	538	522.99	539	522.78	540	522.74
541	522.59	542	522.35	543	522.24	544	522.20	545	521.09	546	519.63	547	519.46	548	519.36	549	518.82	550	517.83
551	517.62	552	517.31	553	517.30	554	517.00	555	516.50	556	515.66	557	514.62	558	514.47	559	514.26	560	511.83
561	511.20	562	510.82	563	510.42	564	510.33	565	509.47	566	508.62	567	507.30	568	506.31	569	504.64	570	504.47
571	502.47	572	501.40	573	499.95	574	499.07	575	498.61	576	497.83	577	497.56	578	492.89	579	486.38	580	484.26
581	482.96	582	482.22	583	480.97	584	480.59	585	477.06	586	476.73	587	473.40	588	473.07	589	472.84	590	472.34
591	472.19	592	460.67	593	458.44	594	456.96	595	455.50	596	447.54	597	444.70	598	438.76	599	239.85	600	197.95

Yusufeli Project

\* MONTHLY INFLOW (10\*\*6 M3) \*

NO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	233.43	264.15	264.87	228.87	246.66	398.73	1136.54	1983.87	790.01	327.41	208.25	160.34	6263.12
2	1941	233.53	581.93	314.07	210.82	336.32	453.77	1399.16	1532.16	826.34	400.69	215.56	182.64	6487.00
3	1942	193.62	213.71	210.98	174.60	150.33	184.78	541.13	814.37	477.96	282.30	191.40	158.09	3593.27
4	1943	161.24	167.13	167.29	149.51	153.07	382.23	585.04	1618.77	910.05	504.74	205.62	167.86	5172.55
5	1944	182.40	162.93	134.05	123.27	112.01	140.94	420.55	771.11	657.62	285.28	155.70	128.74	3246.60
6	1945	133.20	129.31	128.48	119.91	114.16	217.54	554.90	833.03	327.56	434.70	225.32	163.71	3807.04
7	1946	212.13	171.36	142.14	140.35	137.65	340.50	561.24	450.29	310.34	189.31	133.20	121.56	2910.08
8	1947	134.03	187.17	142.54	137.43	128.86	203.96	568.01	821.89	774.28	263.98	159.12	150.72	3672.01
9	1949	142.33	130.58	121.28	112.39	106.99	159.82	372.06	782.44	496.03	170.98	137.59	125.63	2833.86
10	1949	137.57	118.56	116.03	112.39	108.98	195.98	651.42	823.69	523.32	257.29	149.64	119.41	3304.28
11	1950	188.04	166.47	135.21	129.05	117.86	180.55	545.59	689.26	626.74	254.55	162.66	162.29	3318.27
12	1951	236.93	195.83	154.03	170.59	231.27	276.68	713.91	789.94	634.08	339.03	173.46	138.15	4055.90
13	1952	126.63	120.71	117.88	112.52	111.11	203.16	525.42	806.47	660.03	303.68	179.56	163.14	3430.30
14	1953	142.01	139.71	124.44	125.11	160.63	341.76	699.47	1030.73	838.51	535.65	224.80	167.29	4530.11
15	1954	143.75	132.50	128.54	114.72	110.85	148.70	306.45	544.68	327.42	134.88	106.84	103.06	2302.39
16	1955	103.65	102.44	100.03	105.31	126.48	153.90	434.94	549.82	625.09	288.73	148.01	127.60	2876.00
17	1956	119.08	111.72	107.97	99.02	114.33	244.78	528.12	774.40	686.33	279.48	151.12	129.50	3345.85
18	1957	126.82	127.29	125.56	116.72	112.49	193.46	461.27	785.15	576.07	245.64	142.84	138.46	3151.78
19	1958	131.67	126.85	130.17	129.96	106.88	208.57	516.64	919.49	750.69	316.59	191.64	157.72	3686.87
20	1959	182.48	169.08	143.73	214.03	312.25	506.22	1102.56	1271.93	860.78	409.79	217.99	140.89	5333.71
21	1960	129.50	118.15	114.76	98.68	99.84	154.38	445.28	524.91	379.21	143.96	99.78	95.97	2404.40
22	1961	101.78	113.10	148.46	124.17	125.63	358.00	581.06	747.65	515.66	249.05	138.40	133.22	3336.19
23	1962	131.57	131.36	135.18	140.16	138.40	185.80	919.14	1382.33	1357.33	786.81	346.08	167.08	5821.22
24	1963	156.61	143.42	139.38	133.92	195.59	318.25	748.10	1048.83	839.38	278.18	157.36	142.43	4300.44
25	1964	143.21	139.66	151.36	134.51	122.70	278.31	674.80	963.31	679.88	307.91	157.20	132.06	3884.91
26	1965	174.85	164.93	155.29	174.85	165.18	255.22	623.40	1015.51	604.25	286.64	156.74	147.64	3924.50
27	1966	162.87	126.70	135.63	124.30	114.48	177.26	509.38	1017.50	658.91	508.47	233.56	191.50	3828.19
28	1967	162.87	158.11	203.45	170.45	275.52	432.42	1470.79	1617.97	938.62	428.36	244.08	228.33	6330.97
29	1968	225.12	230.30	192.07	167.24	150.14	380.01	809.87	1164.70	554.19	254.47	174.79	166.28	4469.17
30	1969	194.75	150.31	147.50	138.50	140.22	250.35	632.73	548.08	352.43	200.59	159.07	142.95	3037.47
31	1970	164.53	145.05	148.54	129.66	115.71	258.44	458.06	874.84	663.11	290.18	219.04	136.39	3603.56
32	1971	147.10	139.22	165.12	129.88	122.45	207.63	664.90	718.19	749.58	326.66	179.96	174.80	3735.48
33	1972	171.60	165.63	139.25	122.91	137.75	172.41	368.27	726.43	668.23	296.95	145.25	119.57	3230.54
34	1973	138.90	153.39	139.25	117.39	111.45	258.52	377.84	772.13	439.71	182.36	134.38	175.07	3000.39
35	1974	126.46	123.10	123.58	118.49	107.97	217.49	637.75	672.06	533.05	228.35	127.59	126.01	3141.90
36	1975	147.04	126.25	117.34	128.96	123.50	233.33	662.59	1019.85	822.96	396.97	181.01	146.78	4106.38
37	1976	181.92	147.53	135.58	118.71	123.55	504.32	924.45	924.45	604.04	294.36	179.37	136.88	3564.48
38	1977	158.43	143.83	127.22	123.13	149.36	268.51	679.91	1074.79	712.15	381.64	188.80	136.34	4144.10
39	1978	146.16	141.08	142.52	141.93	153.52	220.35	444.48	751.13	760.47	395.28	172.22	124.91	3594.01
40	1979	160.19	246.21	191.26	159.12	142.42	294.36	961.47	1046.95	521.22	258.12	158.96	130.27	4270.57
41	1980	153.98	148.78	151.54	135.96	116.58	202.92	362.13	671.42	802.78	391.31	180.63	144.87	3462.89
42	1981	149.13	154.61	153.02	138.12	109.78	154.12	612.72	936.90	566.71	242.32	140.72	126.78	3484.99
43	1982	130.13	125.50	115.09	104.59	97.54	169.52	338.20	558.73	459.52	215.07	119.20	123.20	2536.08
44	1983	135.91	230.89	181.38	175.22	122.92	211.20	854.04	1581.86	490.87	199.94	174.57	174.57	4593.25
45	1984	172.06	201.63	209.18	174.50	136.61	197.16	955.77	778.72	198.42	118.63	81.37	125.74	3349.78
46	1985	181.43	159.80	196.86	167.02	135.62	246.36	971.69	996.28	774.78	175.09	71.86	134.91	4211.71
47	1986	220.78	240.17	205.65	170.48	171.11	265.13	1020.94	2242.98	572.26	148.64	123.90	138.10	5520.15
48	1987	157.81	186.86	180.39	162.44	140.96	254.29	987.11	1597.53	1441.59	646.27	202.97	194.45	6132.67
49	1988	252.84	219.10	217.41	177.28	117.57	291.17	923.42	300.68	109.98	74.91	71.30	92.33	2847.99
50	1989	176.37	178.69	212.16	143.67	107.51	263.77	1033.74	1536.55	454.82	178.76	73.63	86.34	4446.00
TOTAL		8048.06	8152.53	7792.95	7080.86	7170.13	13526.57	38582.29	48406.68	33329.14	15110.89	8336.09	7202.57	196014.44
AVE		160.96	163.05	155.86	141.62	143.40	250.53	677.17	968.13	646.58	302.82	166.72	144.05	3920.29
MAX		253.43	381.93	314.07	228.87	336.32	506.22	1470.79	2242.98	1441.59	786.81	346.08	228.33	6487.00
MIN		101.78	102.44	107.97	98.68	97.54	140.94	306.45	300.68	109.98	74.91	71.30	86.34	2302.39

Yusufeli Project

\* MONTHLY OUTFLOW (10\*\*6 M3) \*

NO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	267.84	259.20	267.84	374.98	774.14	792.71	787.39	1253.02	790.01	348.19	214.94	208.01	6538.27
2	1941	214.94	336.96	321.41	508.90	767.51	785.58	798.87	1052.45	826.34	401.76	214.94	208.01	6437.66
3	1942	214.94	208.01	214.94	214.94	194.14	214.94	414.72	781.08	492.48	267.84	214.94	208.01	3640.98
4	1943	214.94	208.01	214.94	214.94	201.07	723.17	800.74	850.48	792.52	508.90	214.94	208.01	5152.66
5	1944	214.94	208.01	214.94	214.94	194.14	214.94	208.01	508.90	673.92	267.84	214.94	208.01	3543.53
6	1945	214.94	208.01	214.94	214.94	194.14	214.94	208.01	616.03	751.68	429.62	241.06	208.01	3716.31
7	1946	214.94	208.01	214.94	214.94	194.14	214.94	388.80	455.33	311.04	214.94	214.94	208.01	3054.97
8	1947	214.94	208.01	214.94	214.94	201.07	214.94	208.01	642.82	777.60	267.84	214.94	208.01	3588.06
9	1948	214.94	208.01	214.94	214.94	194.14	214.94	208.01	548.19	492.48	214.94	214.94	208.01	2948.48
10	1949	214.94	208.01	214.94	214.94	194.14	214.94	208.01	589.25	544.32	241.06	214.94	208.01	3267.49
11	1950	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	648.00	241.06	214.94	208.01	3264.04
12	1951	214.94	208.01	214.94	214.94	201.07	214.94	596.16	803.52	648.00	321.41	214.94	208.01	4060.88
13	1952	214.94	208.01	214.94	214.94	194.14	214.94	208.01	535.88	699.84	267.84	214.94	208.01	3396.23
14	1953	214.94	208.01	214.94	214.94	194.14	214.94	208.01	803.52	777.72	535.88	241.06	208.01	4501.82
15	1954	214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	215.74	214.94	214.94	208.01	2538.49
16	1955	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	336.96	294.62	214.94	208.01	2746.33
17	1956	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	725.76	241.06	214.94	208.01	3341.80
18	1957	214.94	208.01	214.94	214.94	194.14	214.94	208.01	570.24	570.24	242.39	214.94	208.01	3134.04
19	1958	214.94	208.01	214.94	214.94	194.14	214.94	208.01	669.60	751.68	321.41	214.94	208.01	3635.56
20	1959	214.94	208.01	214.94	214.94	551.23	838.11	812.03	840.70	779.80	428.54	214.94	208.01	5526.20
21	1960	214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	311.04	214.94	214.94	208.01	2633.79
22	1961	214.94	208.01	214.94	214.94	194.14	214.94	208.01	535.88	518.40	241.06	214.94	208.01	3188.01
23	1962	214.94	208.01	214.94	214.94	194.14	214.94	208.01	837.16	964.05	803.52	348.19	208.01	5716.95
24	1963	214.94	208.01	214.94	214.94	201.07	214.94	809.26	826.34	777.60	267.84	214.94	208.01	4372.81
25	1964	214.94	208.01	214.94	214.94	194.14	214.94	440.64	776.74	699.84	294.62	214.94	208.01	3896.70
26	1965	214.94	208.01	214.94	214.94	194.14	214.94	518.40	816.64	596.16	294.62	214.94	208.01	3910.69
27	1966	214.94	208.01	214.94	214.94	194.14	214.94	208.01	749.95	508.90	241.06	214.94	208.01	3825.83
28	1967	214.94	208.01	214.94	214.94	776.74	799.39	801.75	1207.01	938.62	428.54	267.84	208.01	6306.84
29	1968	241.06	210.74	214.94	214.94	194.14	616.03	803.52	824.58	570.24	241.06	214.94	208.01	4554.19
30	1969	214.94	208.01	214.94	214.94	194.14	214.94	208.01	562.46	336.96	267.84	214.94	208.01	3110.27
31	1970	214.94	208.01	214.94	214.94	194.14	214.94	208.01	696.38	673.92	267.84	217.66	208.01	3533.74
32	1971	214.94	208.01	214.94	214.94	201.07	214.94	259.20	696.38	751.68	322.98	214.94	208.01	3722.04
33	1972	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	648.54	296.95	214.94	208.01	3320.48
34	1973	214.94	208.01	214.94	214.94	194.14	214.94	208.01	455.33	440.64	214.94	214.94	208.01	3003.78
35	1974	214.94	208.01	214.94	214.94	194.14	214.94	208.01	508.90	544.32	214.94	214.94	208.01	3161.03
36	1975	214.94	208.01	214.94	214.94	201.07	214.94	336.96	821.03	777.60	401.76	214.94	208.01	4029.15
37	1976	214.94	208.01	214.94	214.94	194.14	214.94	208.01	776.74	622.08	294.62	214.94	208.01	3583.31
38	1977	214.94	208.01	214.94	214.94	194.14	214.94	544.32	794.67	777.60	321.41	214.94	208.01	4122.86
39	1978	214.94	208.01	214.94	214.94	194.14	214.94	208.01	589.25	751.68	401.76	214.94	208.01	3635.56
40	1979	214.94	208.01	214.94	214.94	201.07	374.98	813.77	817.57	544.32	241.06	214.94	208.01	4268.54
41	1980	214.94	208.01	214.94	214.94	194.14	214.94	208.01	374.98	777.60	374.98	214.94	208.01	3420.42
42	1981	214.94	208.01	214.94	214.94	194.14	214.94	259.20	787.01	570.24	241.06	214.94	208.01	3542.37
43	1982	214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	259.20	214.94	214.94	208.01	2581.95
44	1983	214.94	208.01	214.94	214.94	201.07	616.03	799.66	855.17	492.48	214.94	214.94	208.01	4454.94
45	1984	214.94	208.01	214.94	214.94	194.14	214.94	208.01	776.74	776.74	208.01	214.94	208.01	3636.23
46	1985	214.94	208.01	214.94	214.94	194.14	214.94	208.01	1402.12	572.26	214.94	214.94	208.01	4141.88
47	1986	214.94	208.01	214.94	214.94	435.46	802.41	781.80	850.81	1402.12	572.26	214.94	208.01	5484.77
48	1987	214.94	208.01	214.94	214.94	275.62	807.06	760.89	850.81	1315.33	669.80	214.94	208.01	5974.29
49	1988	214.94	208.01	214.94	214.94	194.14	321.41	762.88	294.62	208.01	214.94	214.94	208.01	3298.03
50	1989	214.94	208.01	214.94	214.94	194.14	455.33	798.56	852.70	454.82	178.76	73.63	86.34	3947.11
TOTAL		10826.08	10583.39	10932.55	11227.17	12185.27	16616.48	20800.82	33762.62	31134.87	15114.18	10872.86	10278.72	196014.31
AVE		216.52	211.67	218.65	224.54	243.71	332.33	441.62	675.25	622.70	310.28	217.46	205.57	3920.29
MAX		267.84	336.96	321.41	508.90	776.74	838.11	813.77	1402.12	1315.33	803.52	348.19	208.01	6437.66
MIN		214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	208.01	178.76	73.63	86.34	2538.49



Yusufelli Project

\* MONTHLY Q0 (10\*\*6 M3) \*

NO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	267.84	259.20	267.84	374.98	774.14	792.71	787.39	855.24	777.29	348.19	214.94	208.01	5927.76
2	1941	214.94	336.96	321.41	508.90	767.51	785.58	798.87	834.69	775.28	401.76	214.94	208.01	6168.84
3	1942	214.94	208.01	214.94	214.94	194.14	214.94	414.72	414.72	492.48	267.84	214.94	208.01	3640.41
4	1943	214.94	208.01	214.94	214.94	201.07	723.17	800.74	850.48	783.83	508.90	214.94	208.01	5143.96
5	1944	214.94	208.01	214.94	214.94	194.14	214.94	208.01	508.90	673.92	267.84	214.94	208.01	3343.53
6	1945	214.94	208.01	214.94	214.94	194.14	214.94	208.01	508.90	673.92	267.84	214.94	208.01	3715.24
7	1946	214.94	208.01	214.94	214.94	194.14	214.94	388.80	455.33	311.04	428.54	214.94	208.01	3054.97
8	1947	214.94	208.01	214.94	214.94	201.07	214.94	208.01	642.82	777.60	267.84	214.94	208.01	3588.06
9	1948	214.94	208.01	214.94	214.94	194.14	214.94	208.01	348.19	492.48	214.94	214.94	208.01	2948.48
10	1949	214.94	208.01	214.94	214.94	194.14	214.94	208.01	589.25	544.32	241.06	214.94	208.01	3267.49
11	1950	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	648.00	241.06	214.94	208.01	3264.04
12	1951	214.94	208.01	214.94	214.94	201.07	214.94	596.16	803.52	648.00	321.41	214.94	208.01	4060.88
13	1952	214.94	208.01	214.94	214.94	194.14	214.94	208.01	535.68	699.84	267.84	214.94	208.01	3396.23
14	1953	214.94	208.01	214.94	214.94	194.14	214.94	673.92	803.52	777.60	535.68	241.06	208.01	4501.70
15	1954	214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	208.01	214.94	214.94	208.01	2530.78
16	1955	214.94	208.01	214.94	214.94	201.07	214.94	208.01	214.94	336.96	294.62	214.94	208.01	2746.33
17	1956	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	725.76	241.06	214.94	208.01	3341.80
18	1957	214.94	208.01	214.94	214.94	194.14	214.94	208.01	428.54	570.24	241.06	214.94	208.01	3132.71
19	1958	214.94	208.01	214.94	214.94	194.14	214.94	208.01	669.60	751.68	321.41	214.94	208.01	3635.56
20	1959	214.94	208.01	214.94	214.94	551.23	838.11	812.03	840.70	777.60	428.54	214.94	208.01	5524.00
21	1960	214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	311.04	214.94	214.94	208.01	2633.79
22	1961	214.94	208.01	214.94	214.94	194.14	214.94	208.01	535.68	518.40	241.06	214.94	208.01	3188.01
23	1962	214.94	208.01	214.94	214.94	194.14	214.94	777.60	803.52	803.52	803.52	348.19	208.01	5554.55
24	1963	214.94	208.01	214.94	214.94	201.07	214.94	809.26	826.32	777.60	267.84	214.94	208.01	4372.81
25	1964	214.94	208.01	214.94	214.94	194.14	214.94	440.64	776.74	699.84	294.62	214.94	208.01	3896.70
26	1965	214.94	208.01	214.94	214.94	194.14	214.94	208.01	816.64	596.16	294.62	214.94	208.01	3910.69
27	1966	214.94	208.01	214.94	214.94	194.14	214.94	208.01	749.95	648.00	508.90	241.06	208.01	3825.83
28	1967	214.94	208.01	214.94	214.94	776.74	799.30	801.75	829.68	777.53	428.54	267.84	208.01	5768.37
29	1968	214.94	208.01	214.94	214.94	194.14	214.94	616.03	824.58	570.24	241.06	214.94	208.01	4551.46
30	1969	214.94	208.01	214.94	214.94	194.14	214.94	311.04	562.66	336.96	214.94	214.94	208.01	3110.37
31	1970	214.94	208.01	214.94	214.94	194.14	214.94	208.01	696.38	673.92	267.84	214.94	208.01	3531.01
32	1971	214.94	208.01	214.94	214.94	201.07	214.94	259.20	696.38	751.68	321.41	214.94	208.01	3720.47
33	1972	214.94	208.01	214.94	214.94	194.14	214.94	208.01	482.11	648.00	294.62	214.94	208.01	3317.61
34	1973	214.94	208.01	214.94	214.94	194.14	214.94	208.01	455.33	440.64	214.94	214.94	208.01	3003.78
35	1974	214.94	208.01	214.94	214.94	194.14	214.94	208.01	508.90	544.32	214.94	214.94	208.01	3161.03
36	1975	214.94	208.01	214.94	214.94	201.07	214.94	336.96	821.03	777.60	401.76	214.94	208.01	4029.15
37	1976	214.94	208.01	214.94	214.94	194.14	214.94	208.01	776.74	622.08	294.62	214.94	208.01	3586.31
38	1977	214.94	208.01	214.94	214.94	194.14	214.94	544.32	794.67	777.60	321.41	214.94	208.01	4122.86
39	1978	214.94	208.01	214.94	214.94	194.14	214.94	208.01	589.25	751.68	401.76	214.94	208.01	3635.56
40	1979	214.94	208.01	214.94	214.94	201.07	214.94	813.77	817.57	544.32	241.06	214.94	208.01	4268.54
41	1980	214.94	208.01	214.94	214.94	194.14	214.94	208.01	374.98	374.98	374.98	214.94	208.01	3420.42
42	1981	214.94	208.01	214.94	214.94	194.14	214.94	259.20	787.01	570.24	241.06	214.94	208.01	3542.37
43	1982	214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	259.20	214.94	214.94	208.01	2581.95
44	1983	214.94	208.01	214.94	214.94	201.07	214.94	799.46	853.17	492.48	214.94	214.94	208.01	4454.94
45	1984	214.94	208.01	214.94	214.94	194.14	214.94	673.92	790.56	777.60	214.94	214.94	208.01	3636.23
46	1985	214.94	208.01	214.94	214.94	194.14	214.94	435.46	803.41	783.80	214.94	214.94	208.01	4141.88
47	1986	214.94	208.01	214.94	214.94	194.14	214.94	803.41	856.90	570.24	214.94	214.94	208.01	4937.53
48	1987	214.94	208.01	214.94	214.94	201.07	214.94	780.09	850.81	784.71	669.60	214.94	208.01	5443.66
49	1988	214.94	208.01	214.94	214.94	194.14	214.94	742.88	294.62	208.01	214.94	214.94	208.01	3297.89
50	1989	214.94	208.01	214.94	214.94	194.14	214.94	799.56	848.78	454.82	178.76	73.63	86.34	3943.20
TOTAL		10836.08	10580.53	10932.55	11227.17	12185.27	16616.48	22080.82	32219.99	30195.67	15507.87	10870.25	10278.72	193520.50
AVE		216.52	211.61	218.65	224.54	243.71	332.33	441.62	644.40	603.91	310.16	217.40	205.57	3870.41
MAX		267.84	336.96	321.41	508.90	776.74	838.11	813.77	856.90	801.65	803.52	348.19	208.01	6168.84
MIN		214.94	208.01	214.94	214.94	194.14	214.94	208.01	214.94	208.01	178.76	73.63	86.34	2530.78

Yusufeli Project

\* MONTHLY OUT (10\*\*6 M3) \*

NO.	YEAR	< OCT >	< NOV >	< DEC >	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< TOTAL >
1	1940	0.0	0.0	0.0	0.0	0.0	0.0	0.0	397.78	12.72	0.0	0.0	0.0	410.51
2	1941	0.0	0.0	0.0	0.0	0.0	0.0	0.0	217.76	51.06	0.0	0.0	0.0	268.82
3	1942	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.69	0.0	0.0	0.0	8.69
4	1943	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1944	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.0	0.0	1.07
6	1945	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1946	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1947	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1948	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1949	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	1950	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1951	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	1952	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	1953	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1954	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	1955	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	1956	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1957	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1958	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1960	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1961	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1962	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1963	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1964	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1965	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1966	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1967	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	1968	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1969	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	1970	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	1971	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	1972	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	1973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	1974	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	1975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	1976	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	1977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	1978	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	1979	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	1981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	1982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	1983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	1984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	1985	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	1987	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	1988	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	1989	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1542.64	939.21	6.31	2.72	0.0	2495.74
AVE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.85	18.78	0.13	0.05	0.0	49.87
MAX		0.0	0.0	0.0	0.0	0.0	0.0	0.0	545.22	530.62	2.33	2.72	0.0	547.24
MIN		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## **A-7 List of Data Provided by EIE**

A-7-1

EİE

Jeoloji ve Sondaj Dairesi Başkanlığı  
Kaya-Zemin Mekanikliği Laboratuvarı

OLTU PROJESİ (OLUR-AYVALI)  
AGREGADA YUMUŞAK KAYA ORANI  
DENEY SONUÇLARI

SOFT PARTICLES IN COARSE AGGREGATE

by

SCRATCH HARDNESS TEST

N.PEHLİVAN : Jeo.Müh.

O.CEYLAN : Jeo.Yük.Müh.

Kaya-Zemin Mekanikliği Şube Müdürlüğü

Mayıs-1991

ANKARA

AP-7-1

A-7-2

Jeoloji ve Sondaj Daire Başkanlığı  
Kaya-Zemin Mekaniği Laboratuvarı

OLTU KOLU  
AYVALI BARAJ YERİ  
TAVUSKER GEÇİRİMSİZ MALZEME SAHASI  
DENEY SONUÇLARI

Nilgün PEHLİVAN : Jeo.Müh.  
Osman CEYLAN : Jeo.Yük.Müh.

Kaya-Zemin Mekaniği Şube Müdürlüğü  
Eylül - 1991

ANKARA

AP-7-2

A-7-3

ÇORUH HAVZASI  
OLTU KOLU  
OLUR BARAJ VE HES PROJESİ  
DOĞAL YAPI GEREÇLERİ RAPORU

Hazırlayan  
Murat DİNÇ  
Jeoloji Mühendisi

İstikşaf ve Malzeme Etütleri Şubesi Müdürlüğü

Aralık-1991

AP-7-3

## İÇİNDEKİLER

	<u>Sayfa</u>
I. GİRİŞ	1
I.1. Yapının Yeri ve Amacı	1
I.2. Proje Özellikleri	1
II. MALZEME ETÜTLERİ	1
II.1. Geçirimsiz Malzeme	2
II.2. Geçirimli Malzeme	11
II.3. Kaya (Riprap) Malzeme	14
YARARLANILAN KAYNAKLAR	15
<u>EKLER</u>	
Ek-1 : OLUR BARAJ VE HES PROJESİ GEÇİRİMSİZ MALZEME ETÜDÜ SONUÇLARI	
Ek-2 : ÇORUH HAVZASI OLTU KOLU OLUR BARAJ VE HES PROJESİ GEÇİRİMLİ MALZEME ARAŞTIRMALARI	

A-7-4

**ÇORUH OLTU KOLU OLUR BARAJ VE HES YERİ  
SANTRAL SAHASI  
JEOFİZİK ETÜT ÖN RAPORU**

**A.Necati SARAÇ  
Jeofizik Mühendisi**

**Önder TEKELİ  
Jeofizik Mühendisi**

**Serdar ERTAN  
Jeofizik Mühendisi**

**Jeofizik Şubesi Müdürlüğü  
Kasım 1991, ANKARA**

AP-7-5



## İÇİNDEKİLER

	<u>Sayfa No</u>
I. GİRİŞ	1
II. ÇALIŞMA ALANI	1
III. ÇALIŞMA ALANININ JEOLJİSİ	1
IV. DEĞERLENDİRME	2
V. SONUÇ VE ÖNERİLER	2

### EKLER

EK: 1 Jeofizik Çalışma Bulduru Haritası

EK: 2-4 Santral Sahası Jeofizik (sismik) kesitleri.

A-7-5

**ÇORUH HAVZASI  
OLTU KOLU  
AYVALI BARAJ VE HES PROJESİ  
DOĞAL YAPI GEREÇLERİ RAPORU**

**Hazırlayan  
Murat DİNÇ  
Jeoloji Mühendisi**

**İstikşaf ve Malzeme Etütleri Şubesi Müdürlüğü**

**Aralık-1991**

**AP-7-7**

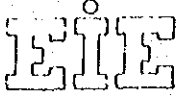
## İÇİNDEKİLER

	<u>Sayfa</u>
I. GİRİŞ	1
I.1. Yapının Yeri ve Amacı	1
I.2. Proje Özellikleri	1
II. MALZEME ETÜTLERİ	2
II.1. Geçirimsiz Malzeme	2
II.2. Geçirimli Malzeme	13
II.3. Kaya (Riprap) Malzeme	16
YARARLANILAN KAYNAKLAR	17

### EKLER

EK-1 : AYVALI BARAJ VE HES PROJESİ GEÇİRİMSİZ MALZEME  
ETÜDÜ SONUÇLARI

EK-2 : ÇORUH HAVZASI OLTU KOLU AYVALI BARAJ VE HES PROJESİ  
GEÇİRİMLİ MALZEME ETÜT SONUÇLARI



A-7-6

Jeoloji ve Sondaj Da. Bşk.

# ARAŞTIRMA ÇUKURU PROFİLİ

## TEST PIT LOG

PROJE  
Project

= Ayvalı Dam and HPP

ÇUKUR NO.  
Test Pit No

= MB-1

MALZEME SAHASI CİNSİ  
Type of Borrow Area

= Impervious material

DERİNLİK  
Depth

= 4.00 m.

MALZEME SAHASI YERİ  
Location of Borrow Area

= BULANIK DERE

ÜST KOT  
Ground Elevation

= 796.76 m.

NUMUNE ALMA ŞEKLİ  
Method of Sampling

= Composite sample

KOORDİNAT  
Coordinates

= 487004.50 4514375.33

NUMUNE ALMA TARİHİ  
Date of Sampling

= 02.05.1991

YAPAN ve ÇİZEN  
Described and Drawn By

= MURAT DİNÇ

Name of Project	Test Pit No.	Depth	Name of Project	Test Pit No.	Depth
Ayvalı	MB-1	4.00	Olur	FM-7	1.40
Ayvalı	MB-2	12.00	Ayvalı	FM-1	1.75
Ayvalı	MB-3	4.00	Ayvalı	FM-2	1.80
Ayvalı	MB-4	10.00	Ayvalı	FM-3	1.70
Ayvalı	MB-5	1.20	Ayvalı	FM-4	3.00
Ayvalı	MB-5A	2.10	Ayvalı	FM-5	2.50
Ayvalı	MB-6	1.40	Ayvalı	FM-6	2.30
Ayvalı	MB-7	2.00	Ayvalı	FM-7	2.50
Ayvalı	MT-1	4.00	Ayvalı	FM-8	2.10
Olur	MK-1	2.20	Olur	MY-1	4.00
Olur	MK-2	2.50	Olur	MY-2	3.00
Olur	MK-3	3.50	Olur	MY-3	3.00
Olur	MK-4	3.60	Olur	MY-4	4.00
Olur	MK-5	2.50	Ayvalı	MT-2	4.00
Olur	MK-6	3.20	Ayvalı	MT-3	3.80
Olur	MK-7	3.00	Ayvalı	MT-4	3.60
Olur	MK-8	4.00	Ayvalı	MT-5	4.00
Olur	FM-1	1.75	Ayvalı	MT-6	3.80
Olur	FM-2	2.20	Ayvalı	MT-7	4.00
Olur	FM-3	1.90	Ayvalı	MT-8	3.80
Olur	FM-4	1.50	Ayvalı	MT-9	3.50
Olur	FM-5	2.50	Ayvalı	MT-10	8.00
Olur	FM-6	2.10			

AP-7-9

A-7-7

T.C.

BAYINDIRLIK VE İSKAN BAKANLIĞI  
DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ  
TEKNİK ARAŞTIRMA VE KALİTE KONTROL DAİRESİ BAŞKANLIĞI

YAYIN NO : Z- 808

EİEİ OLUR VE AYVALI BARAJ VE HES PROJELERİ  
PERMEABİLİTE VE ÜÇ EKSENLİ DENEYLERİ

DAİRE BAŞKANI : Ergün DEMİRÖZ  
BAŞKAN YARDIMCISI : Mümtaz TURFAN  
ŞUBE MÜDÜRÜ : Hasan TOSUN  
RAPORU YAZAN : Hasan TOSUN  
İsmail USTA

Zemin Mekaniği  
Şube Müdürlüğü

ANKARA-1991

AP-7-10

A-7-8

ÇORUH-OLTU KOLU AYVALI BARAJ VE HES PROJESİ  
BULANIKDERE MALZEME SAHASI  
JEOFİZİK ETÜT ÖN RAPORU

Necati SARAÇ  
Jeofizik Müh.

Önder TEKELİ  
Jeofizik Müh.

JEOFİZİK ŞUBESİ MÜDÜRLÜĞÜ  
ŞUBAT- 1992 ANKARA

AP-7-11

## İÇİNDEKİLER

I. GİRİŞ	1
II. ÇALIŞMA ALANI	1
III. ÇALIŞMA ALANININ JEOLJİSİ	1
IV. DEĞERLENDİRME	2
V. SONUÇ VE ÖNERİLER	3
IV. KAYNAKLAR	4

### EKLER

- EK : 1 Jeofizik Çalışma Bulduru Haritası  
EK : 2 Panel diyagram  
EK : 3 Tabankaya Kontur Haritası

OLTU PROJECT  
AYVALI DAM AND HEPP  
LONG TERM PERMEABILITY TEST RESULTS

Sample No: MB-3

Coefficient of permeability has been measured at an interval of seven days for a period of six months. ASTM D 698-78 Method A has been applied for compaction test. Then the falling head permeability method has been performed on the sample. The chemical agent provided by JICA was utilized to prevent breeding of algae. The relevant results are given below:

Test Begun : 13.08.1991  
Test Finished : 13.02.1992

Weeks	(Coefficient of permeability) K (cm/sec)
1st.	$3.0 \times 10^{-8}$
2nd.	$1.0 \times 10^{-8}$
3rd.	$3.0 \times 10^{-8}$
4th.	$2.4 \times 10^{-8}$
5th.	$4.2 \times 10^{-8}$
6th.	$4.3 \times 10^{-8}$
7th.	$1.6 \times 10^{-8}$
8th.	$2.9 \times 10^{-8}$
9th.	$2.2 \times 10^{-8}$
10th.	$2.8 \times 10^{-8}$
11th.	$3.4 \times 10^{-8}$
12th.	$2.9 \times 10^{-8}$
13th.	$3.1 \times 10^{-8}$
14th.	$2.6 \times 10^{-8}$
15th.	$3.6 \times 10^{-8}$
16th.	$3.6 \times 10^{-8}$
17th.	$3.0 \times 10^{-8}$
18th.	$5.4 \times 10^{-8}$
19th.	$3.4 \times 10^{-8}$
20th.	$3.4 \times 10^{-8}$
21st.	$2.8 \times 10^{-8}$
22th.	$2.3 \times 10^{-8}$
23th.	$2.8 \times 10^{-8}$
24th.	$2.5 \times 10^{-8}$
25th.	$2.2 \times 10^{-8}$
26th.	$2.9 \times 10^{-8}$
27th.	$2.1 \times 10^{-8}$



A-7-10

**ÇORUH - OLTU KOLU OLUR BARAJ VE HES PROJESİ**  
**BARIÇECİK HEYELANI**  
**JEOFİZİK ETÜT ÖN RAPORU**

**A.Necati SARAÇ**  
**Jeofizik Müh.**

**Hasan GÖRMÜŞ**  
**Jeofizik Müh.**

**Önder TEKELİ**  
**Jeofizik Müh.**

**Jeofizik Şubesi Müdürlüğü**  
**Temmuz 1992, ANKARA**

AP-7-14

## **İÇİNDEKİLER**

	<i>Sayfa No</i>
<b>I. GİRİŞ</b>	<b>1</b>
<b>II. ÇALIŞMA ALANI</b>	<b>1</b>
<b>III. ÇALIŞMA ALANININ JEOLJİSİ</b>	<b>1</b>
<b>IV. DEĞERLENDİRMELER</b>	<b>2</b>
<b>V. SONUÇ VE ÖNERİLER</b>	<b>2</b>
<b>VI. YARARLANILAN KAYNAKLAR</b>	<b>3</b>

## **EKLER**

**EK: 1 Jeofizik Çalışma Bulduru Haritası**

**EK: 2-5 Bahçecik Heyelan Jeofizik Kesitleri**



