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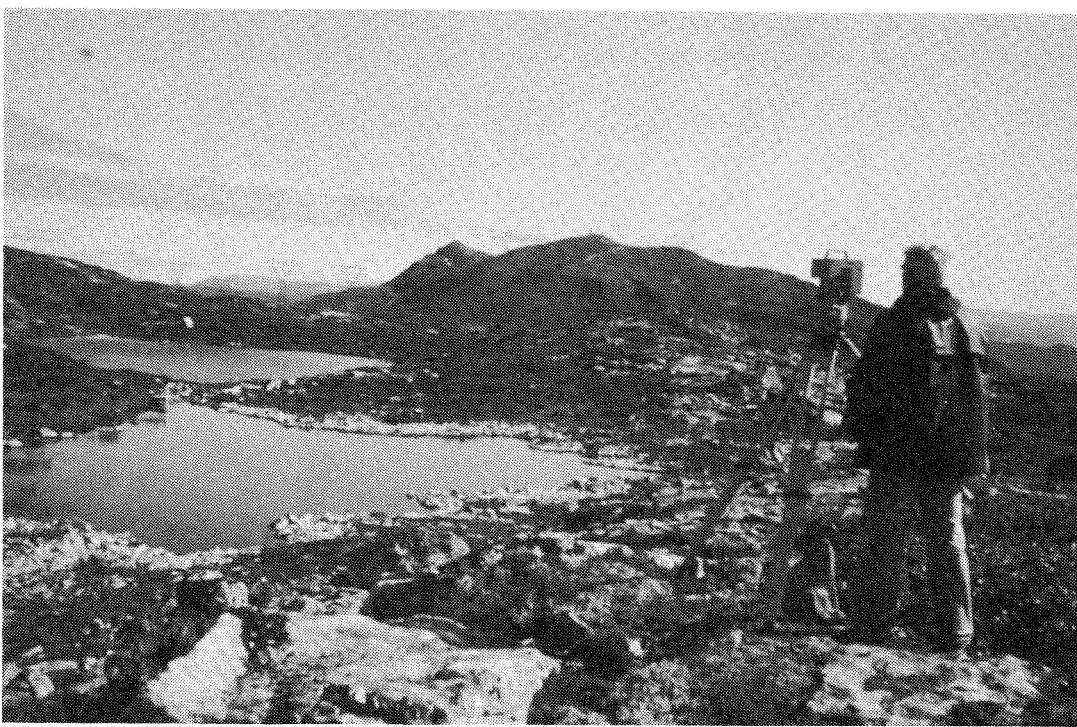
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Acid Rain Research

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RAIN project. Data report 1983-85.



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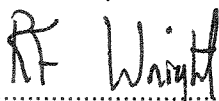
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4 keywords , Norwegian
1. sur nedbør
2. vannkjemi
3. reversibilitet
4. nedbørfelt

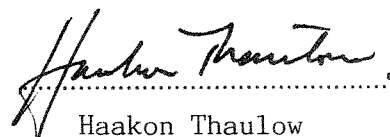
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Project leader



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For the Administration



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RAIN PROJECT

Data report 1983 - 85

Oslo, May 1986

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TABLE 1.

EGIL CATCHMENT RUNOFF DATA. UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
TOC MG C/L. -99.0=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	ILAL	LAL	TOC
830905	3.83	120.9	44.0	74.8	73.2	157.1	135.7	191.8	363.3	-99	-99	12.8
830910	3.81	109.6	24.8	37.9	52.6	37.1	90.0	143.9	172.4	-99	-99	11.4
831011	3.99	84.4	4.1	19.0	24.7	5.0	11.4	160.8	71.4	159	150	8.9
831107	3.92	146.6	3.6	20.0	34.5	2.1	22.1	265.2	79.6	273	123	6.0
831205	3.94	210.1	4.1	20.0	37.0	6.4	52.1	211.6	145.0	325	143	6.6
831215	3.92	240.1	6.1	22.5	42.8	9.3	65.7	242.6	142.4	119	343	6.0
840318	3.92	234.0	11.8	42.9	60.0	7.1	107.1	253.9	196.9	108	482	8.1
840320	3.88	234.9	11.3	40.9	58.4	5.7	107.1	253.9	196.9	105	531	8.4
840322	3.89	236.6	11.0	38.4	56.8	2.1	106.0	253.9	194.1	112	542	8.2
840323	3.89	219.2	8.7	26.4	47.7	11.4	73.3	248.2	175.0	107	433	5.4
840325	4.08	199.7	5.4	27.9	37.0	12.9	17.1	265.2	112.4	150	296	8.9
840328	3.91	224.5	9.7	33.4	48.5	12.9	84.9	259.5	180.5	103	381	8.2
840329	3.88	222.7	9.2	31.4	47.7	12.9	82.5	259.5	183.3	105	409	6.9
840330	3.89	219.2	9.2	29.9	46.9	12.9	83.4	259.5	183.3	106	382	7.6
840331	3.89	220.5	9.2	28.4	46.9	13.6	82.5	253.9	188.8	116	420	7.0
840401	3.88	220.5	9.5	28.9	47.7	13.6	85.4	253.9	188.8	109	443	7.0
840402	3.90	216.6	10.0	28.9	48.5	13.6	81.4	253.9	169.6	112	420	7.1
840403	3.88	212.3	8.7	27.9	46.9	12.9	80.0	248.2	166.9	116	424	6.0
840404	3.87	226.6	10.2	33.9	58.4	35.0	120.7	253.9	199.6	123	733	6.1
840405	3.91	202.7	13.3	27.4	55.1	42.8	134.2	169.3	199.6	122	518	5.3
840406	3.92	195.8	12.8	26.4	51.8	39.3	126.4	158.0	172.4	131	487	5.2
840407	3.94	160.9	13.3	24.5	45.2	47.1	115.0	129.8	199.6	112	358	5.9
840408	3.96	168.3	13.8	29.9	46.9	40.0	115.0	135.4	199.6	121	403	5.1
840409	3.98	160.5	13.3	21.5	44.4	37.8	121.4	129.8	199.6	100	354	6.0
840410	3.95	161.8	13.8	21.5	44.4	38.6	121.4	129.8	199.6	96	416	5.0
840411	3.99	143.5	13.6	22.0	42.8	40.7	110.7	112.8	199.6	94	384	4.5
840412	4.00	143.1	13.3	22.0	42.0	35.7	110.7	118.5	180.5	95	377	4.6
840413	4.09	112.7	11.8	17.5	31.3	35.7	83.9	107.2	128.6	87	269	4.9
840414	4.07	101.8	11.5	14.0	27.1	31.4	74.6	101.6	112.4	86	181	5.0
840415	4.15	99.2	10.7	15.0	26.3	29.3	74.3	95.9	101.4	98	183	4.8
840416	4.16	97.9	10.7	15.0	26.3	27.1	74.6	90.3	98.6	98	198	4.8
840417	4.13	90.5	10.2	12.5	23.0	25.7	69.3	84.6	85.0	100	140	5.3
840418	4.19	86.1	9.7	12.0	22.2	22.8	67.1	84.6	79.6	111	157	5.7
840419	4.17	81.3	8.9	11.5	21.4	22.8	63.5	79.0	68.6	98	128	5.7
840424	4.30	45.2	6.4	5.0	9.9	12.5	36.4	45.1	25.0	98	49	5.0
840425	4.36	49.2	6.6	7.5	10.7	13.6	35.7	45.1	30.5	86	93	5.2
840426	4.31	44.8	5.9	5.5	9.0	13.2	31.8	39.5	19.7	82	82	5.6
840427	4.38	39.1	5.4	5.5	8.2	10.7	25.0	33.9	3.3	101	93	5.8

	840428	4.30	42.6	5.9	5.5	8.2	8.6	30.3	39.5	8.6	94	70	6.0
	840429	4.31	45.2	6.1	7.0	9.9	7.1	32.1	39.5	22.3	108	69	6.5
	840430	4.29	45.7	5.9	6.5	9.9	5.7	31.8	39.5	25.0	110	67	6.6
	840501	4.26	48.3	6.1	8.5	10.7	2.9	35.3	39.5	36.0	117	86	7.3
	840502	4.16	61.3	7.9	12.0	18.1	10.7	44.6	56.4	60.5	110	107	6.9
	840503	4.13	61.3	7.7	11.0	17.3	10.0	43.6	56.4	57.8	104	106	6.5
	840504	4.17	65.2	8.9	13.5	18.1	10.4	46.1	62.1	76.9	112	110	6.5
	840505	4.15	65.2	8.9	13.5	18.1	9.6	46.4	62.1	76.9	119	112	7.0
	840506	4.09	65.7	8.7	13.0	21.4	9.3	45.7	62.1	79.6	108	99	6.9
	840507	4.14	64.8	8.7	14.0	18.1	8.6	43.6	62.1	79.6	108	95	7.1
	840508	4.09	67.0	8.9	14.0	19.7	6.8	41.8	67.7	76.9	105	126	7.4
	840509	4.10	67.4	8.9	14.0	18.9	7.1	41.4	67.7	74.1	116	165	7.4
	840510	4.19	68.7	8.9	13.5	18.9	6.1	39.3	67.7	71.4	94	125	7.3
	840511	4.08	68.3	8.9	14.0	18.9	7.1	40.3	67.7	76.9	99	116	7.5
	840512	4.12	68.7	8.9	14.0	18.9	7.1	37.8	67.7	76.9	104	124	7.4
	840513	4.08	67.9	9.2	13.0	18.1	7.1	37.5	67.7	76.9	94	121	7.9
	840514	4.09	67.9	9.2	14.0	18.9	7.1	37.5	67.7	74.1	99	116	7.6
	840515	4.05	74.4	5.6	14.5	23.9	2.5	48.9	70.5	76.9	129	141	7.8
	840516	4.04	74.4	5.9	15.0	23.0	2.5	46.8	67.7	79.6	129	144	7.7
	840516	4.22	-99.0	-99.0	12.5	-99.0	-99.0	-99.0	87.5	90.5	-99	-99	9.3
	840517	4.04	76.6	5.6	15.5	23.9	3.2	46.4	70.5	82.4	134	148	7.0
	840518	4.04	84.4	6.1	17.0	23.9	7.9	44.3	79.0	85.0	147	269	7.2
	840519	4.16	75.7	7.4	17.0	24.7	1.1	42.5	56.4	112.4	117	161	7.5
	840520	4.11	79.2	7.2	16.0	23.9	2.1	36.4	62.1	115.0	127	160	7.3
	840521	4.11	83.1	7.7	15.5	23.9	6.4	35.7	62.1	120.5	133	150	7.5
	840522	4.07	82.6	7.2	16.5	23.0	5.0	31.1	62.1	120.5	135	140	7.8
	840523	4.06	77.4	7.7	14.0	21.4	4.3	27.1	56.4	131.4	134	115	7.7
	840524	4.10	76.6	7.4	13.5	21.4	3.2	26.4	53.6	134.1	137	129	8.1
	840525	4.06	75.7	7.4	13.5	21.4	3.2	25.3	56.4	136.9	139	120	8.3
	840526	4.06	74.4	7.4	13.5	21.4	3.9	24.6	56.4	131.4	139	107	8.3
	840527	4.06	75.7	7.9	19.5	25.5	2.5	24.3	56.4	134.1	136	105	8.6
	840528	4.05	75.7	7.7	14.5	21.4	2.9	23.9	56.4	126.0	141	101	8.6
	840529	4.07	75.7	7.9	14.0	21.4	2.9	23.2	56.4	123.3	144	97	8.6
	840720	3.81	84.0	5.1	35.9	47.7	7.9	88.9	42.3	308.8	208	366	15.3
	840802	3.83	90.0	4.1	31.4	39.5	0.9	82.5	33.9	226.9	246	530	13.3
	840806	3.88	73.9	2.3	21.5	30.4	4.3	22.1	39.5	199.6	257	201	11.9
0100	840921	3.90	80.0	3.1	16.5	21.4	2.9	12.3	67.7	194.1	240	300	12.8
0400	840921	3.90	70.5	3.6	15.5	23.0	6.8	35.0	67.7	150.5	234	178	15.0
0700	840921	3.93	61.8	5.6	14.0	20.6	7.1	32.1	64.9	123.3	242	178	15.5
1100	840921	3.96	55.7	5.6	11.0	16.5	6.8	27.1	67.7	101.4	215	85	12.8
	840922	3.97	70.9	2.6	12.5	18.1	1.4	12.1	70.5	142.4	244	200	12.6
	840926	3.99	71.3	2.0	11.0	16.5	0.7	14.1	81.8	106.9	234	194	11.2
	840930	4.00	70.5	2.0	10.5	14.8	2.1	9.4	79.0	90.5	239	133	11.1
	841001	3.96	61.8	5.4	11.5	18.1	5.4	38.2	56.4	115.0	183	115	8.6

841002	4.07	52.2	3.1	9.0	13.2	2.9	26.8	50.8	79.6	215	67	7.6
841004	4.07	53.5	2.8	8.5	12.3	3.6	24.3	48.0	82.4	213	78	9.8
841005	4.07	50.0	4.3	8.5	13.2	5.7	45.0	42.3	63.3	194	55	9.6
841006	4.13	41.8	3.6	6.0	9.9	2.9	24.3	39.5	57.8	197	36	9.2
841008	4.13	41.3	5.1	6.0	9.9	2.9	22.5	31.0	68.6	184	37	8.8
841013	4.10	53.5	2.3	8.0	12.3	5.4	17.5	59.2	68.6	255	119	12.8
841014	4.09	54.4	2.3	8.0	14.0	3.2	20.3	67.7	68.6	345	13	9.0
841018	4.09	48.3	6.4	4.5	12.3	9.6	22.1	67.7	52.4	200	62	12.4
841020	3.88	117.4	9.2	19.5	36.2	6.8	26.8	253.9	63.3	143	269	6.9
841025	4.16	63.1	5.1	6.5	9.9	5.0	32.5	67.7	44.1	140	66	8.5
841029	4.08	80.0	6.9	8.0	14.8	5.7	37.1	110.0	41.4	129	95	7.1
841031	4.15	62.6	5.6	6.0	9.9	4.6	32.1	59.2	52.4	121	71	8.3
841109	4.05	85.3	6.1	11.0	19.7	6.8	51.1	73.3	106.9	204	126	8.4
841112	3.95	108.8	9.5	17.0	34.5	15.7	49.6	126.9	158.6	135	241	5.6
841119	3.95	137.9	8.7	22.0	36.2	22.5	49.3	194.6	158.6	116	344	6.3
841123	3.87	164.0	12.8	25.4	50.2	42.5	84.3	262.4	188.8	113	397	5.7
841124	3.93	118.3	8.4	16.0	32.1	14.3	61.0	143.9	112.4	140	226	6.1
841129	3.89	154.9	9.7	20.0	37.8	18.6	55.3	245.1	93.3	119	319	5.3
841205	3.91	145.7	8.9	17.0	33.7	17.1	53.9	234.1	93.3	119	287	4.7
841212	3.88	150.1	8.2	18.0	33.7	4.3	88.2	158.0	147.8	136	300	5.5
841220	3.96	130.9	6.9	16.5	28.0	16.4	62.1	146.7	134.1	119	241	5.6
850205	3.88	219.7	27.6	70.9	106.9	107.1	58.9	335.7	363.3	155	221	10.4
850207	4.01	136.6	20.7	42.4	56.8	53.5	38.6	186.0	196.9	98	61	9.6
850212	3.92	194.0	21.2	51.9	72.4	53.2	43.2	270.8	226.9	152	144	11.7
850219	4.23	67.4	2.3	4.0	16.5	0.7	8.9	90.3	25.0	-99	-99	-99.0
850226	4.04	176.6	28.4	61.4	78.1	52.8	42.8	237.0	199.6	145	117	12.5
850307	3.93	256.6	43.2	104.8	120.1	32.1	-99.0	324.4	445.1	97	121	13.8
850313	4.06	165.3	37.6	66.9	73.2	66.4	44.6	282.1	281.4	85	92	12.8
850317	4.16	147.9	21.2	33.4	35.4	58.2	24.3	189.0	147.8	73	74	11.2
850326	4.07	147.9	12.8	17.5	27.1	41.8	8.4	200.3	150.5	103	391	7.6
850402	4.09	125.3	14.8	17.0	28.8	54.3	18.6	169.3	183.3	131	415	8.5
850407	4.11	125.7	14.6	17.0	28.8	44.3	30.3	149.5	164.1	152	326	9.4
850414	4.08	130.5	13.3	16.0	26.3	46.4	23.2	160.8	164.1	156	266	9.5
850416	4.18	90.9	12.3	12.0	19.7	36.8	38.2	98.7	98.6	154	138	9.5
850418	4.29	73.9	15.6	11.0	17.3	43.9	30.3	87.5	71.4	132	64	9.3
850421	4.24	85.7	16.9	10.0	17.3	51.1	30.0	98.7	96.0	176	95	11.0
850423	4.33	75.7	17.4	7.5	12.3	56.4	24.3	87.5	79.6	190	59	12.3
850430	4.22	89.6	17.4	10.0	14.8	49.3	32.1	95.9	109.6	268	120	15.4
850503	4.33	80.9	19.9	8.0	12.3	61.8	33.2	84.6	82.4	231	49	12.9
850506	4.18	91.8	18.2	9.5	15.6	47.8	43.6	87.5	106.9	252	122	12.5
850513	4.11	104.0	20.5	13.5	19.7	35.0	43.9	101.6	117.8	264	244	12.0
850518	4.23	70.0	13.0	7.0	11.5	32.1	35.3	45.1	109.6	216	74	10.2
850527	4.22	78.3	15.3	8.5	14.8	42.8	38.9	50.8	109.6	210	97	9.5

	850530	4.08	103.1	16.6	15.0	21.4	22.1	52.8	79.0	126.0	268	156	12.9
	850620	4.11	80.0	4.6	12.5	19.7	3.2	12.0	45.1	128.6	271	101	13.7
	850628	4.15	70.0	2.8	13.5	26.3	8.2	23.6	36.7	128.6	284	140	13.7
	850707	4.06	77.9	3.1	15.0	19.7	8.2	14.2	53.6	123.3	296	139	15.2
	850718	3.95	66.1	3.3	18.5	26.3	5.0	21.8	50.8	139.6	312	138	17.2
	850719	4.06	52.6	2.0	12.0	15.6	3.9	14.0	33.9	90.5	365	-15	18.2
	850720	4.11	59.6	1.5	11.0	14.8	3.2	8.4	33.9	93.3	195	277	16.4
1000	850730	4.05	57.0	1.0	13.5	18.1	7.1	17.5	31.0	115.0	292	126	15.9
2000	850730	4.19	43.1	2.3	9.0	10.7	7.1	9.1	22.6	68.6	270	78	15.8
3000	850730	4.18	55.2	1.5	9.5	12.3	7.1	4.1	28.2	82.4	297	97	15.8
	850804	4.10	57.0	1.5	9.5	14.0	3.2	2.7	45.1	87.8	335	63	19.6
	850805	4.09	52.6	2.0	10.5	14.8	3.6	2.0	53.6	71.4	320	74	22.5
	850807	4.13	58.7	1.8	9.5	16.5	2.9	2.1	48.0	79.6	400	52	20.7
1605	850808	4.16	58.7	3.3	10.5	12.3	9.3	2.4	50.8	66.0	389	39	30.8
1652	850808	4.13	51.8	2.0	11.0	13.2	5.0	2.8	56.4	60.5	328	76	27.6
1728	850808	4.14	48.7	2.3	11.0	12.3	3.6	3.1	53.6	57.8	307	63	25.2
1800	850808	4.13	47.0	2.3	9.5	12.3	2.1	3.3	50.8	55.0	325	61	25.6
	850809	4.15	49.6	1.0	9.0	11.5	2.9	3.1	48.0	55.0	255	45	17.1
	850812	4.08	57.4	1.8	12.0	15.6	5.0	7.9	48.0	85.0	239	61	16.6
	850815	4.03	67.4	2.0	14.0	19.7	5.0	8.4	79.0	98.6	238	106	15.3
	850819	4.05	64.4	1.3	13.0	18.1	5.7	12.6	59.2	109.6	244	114	19.3
1000	850821	4.11	60.5	1.3	11.0	14.0	3.2	4.9	53.6	76.9	266	92	18.4
2000	850821	4.14	54.8	1.5	9.5	12.3	2.5	4.8	53.6	68.6	251	58	19.0
	850827	4.11	61.3	1.5	11.0	13.2	6.1	5.5	79.0	60.5	288	180	20.2
	850828	4.11	73.1	2.6	13.0	24.7	5.7	7.4	110.0	57.8	321	149	17.3
0800	850903	4.09	59.6	3.3	10.0	13.2	10.0	10.3	76.2	52.4	227	54	15.8
1600	850903	4.14	53.9	3.1	9.0	11.5	7.9	16.8	56.4	49.6	191	42	14.6
	850904	4.16	50.9	2.6	8.0	9.9	7.1	11.9	50.8	49.6	213	42	15.4
	850905	4.28	37.8	1.5	5.5	6.6	6.4	4.5	36.7	22.3	184	19	16.7
	850907	4.25	43.1	1.8	6.0	7.4	5.0	5.0	39.5	25.0	241	39	14.4
	850913	4.00	65.2	3.3	15.5	23.0	13.9	66.0	53.6	83.3	255	121	11.4
	850915	4.05	60.9	3.3	12.5	18.9	19.3	28.9	84.6	70.8	235	121	10.9
	850919	4.17	51.3	3.3	10.5	14.0	16.1	10.9	76.2	52.0	221	48	13.4
	850920	4.11	53.9	3.6	11.0	14.0	12.9	19.3	62.1	60.4	205	57	11.7
	850921	4.12	59.2	3.1	11.5	14.0	5.7	11.8	70.5	50.0	299	107	14.4
	851001	4.09	68.7	3.1	12.5	18.9	21.4	22.5	67.7	72.9	283	153	17.1
	851004	4.03	73.5	5.4	13.5	23.0	17.8	33.9	81.8	83.3	262	182	12.0
	851007	3.97	80.0	11.5	17.0	27.1	30.0	48.6	104.4	95.8	205	135	11.4
	851009	4.06	73.1	7.2	12.5	22.2	15.0	26.4	93.1	70.8	267	125	12.0
	851012	4.16	67.4	6.9	11.0	18.1	16.4	17.5	79.0	54.1	291	153	14.5
0307	851105	3.93	124.4	13.6	25.0	42.8	68.9	75.3	200.3	145.7	347	245	18.2
1617	851105	3.85	147.9	21.0	33.4	58.4	66.8	107.1	248.2	170.7	268	288	12.8
2009	851105	3.97	94.0	16.1	22.0	32.9	50.0	69.6	146.7	135.3	191	145	10.5
	851106	4.03	92.2	14.1	17.5	26.3	40.7	56.8	126.9	133.2	188	115	11.0

TABLE 2.

KIM CATCHMENT RUNOFF DATA. UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
TOC MG C/L. -99.0=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	TLAL	LAL	TOC
830114	4.10	123.1	2.3	10.5	16.5	-99.0	10.0	163.6	44.1	-99	-99	7.9
830606	4.20	62.2	4.9	7.5	10.7	0.7	0.7	39.5	85.0	-99	-99	14.9
831011	4.01	89.6	3.6	33.4	28.0	1.4	0.7	146.7	112.4	235	241	12.8
831107	3.82	192.7	7.4	36.9	65.0	1.4	11.4	423.1	90.5	476	154	8.9
831205	3.92	177.5	4.9	24.0	37.8	2.9	16.8	270.8	112.4	346	198	10.3
831215	3.89	211.4	4.3	22.0	42.0	3.6	18.2	287.7	117.8	196	324	9.5
840320	4.06	199.2	5.9	25.4	36.2	10.0	18.2	253.9	112.4	156	170	9.1
840321	4.07	201.4	5.6	27.4	37.0	10.7	17.5	259.5	126.0	155	233	9.0
840322	4.05	198.8	5.4	26.9	36.2	8.6	17.3	253.9	117.8	106	316	8.5
840323	4.03	212.7	5.4	26.4	37.0	10.7	17.9	270.8	134.1	154	280	7.9
840324	4.03	197.5	5.4	25.9	37.0	10.7	18.2	265.2	117.8	130	304	8.8
840325	3.90	234.0	10.5	37.4	51.8	22.1	86.9	265.2	186.0	107	441	8.4
840326	4.03	200.5	5.6	28.9	37.0	9.3	17.3	265.2	120.5	129	321	8.6
840328	4.04	204.4	5.9	27.4	37.0	8.6	17.8	270.8	123.3	158	282	8.7
840329	4.05	206.2	5.9	26.9	36.2	8.6	17.8	270.8	126.0	157	269	8.0
840330	4.06	203.1	6.4	29.9	36.2	7.9	19.3	270.8	128.6	155	265	7.9
840331	4.05	201.8	6.9	29.9	37.0	8.6	18.9	265.2	120.5	154	258	7.7
840401	4.00	213.6	8.9	26.4	41.1	12.1	21.5	276.5	153.3	207	239	10.0
840402	3.99	212.7	8.9	25.4	40.3	12.1	19.3	270.8	153.3	206	240	10.3
840403	4.06	200.5	6.6	24.0	37.8	10.7	11.6	265.2	134.1	166	202	8.7
840404	4.05	200.5	6.4	24.5	37.8	10.7	9.9	265.2	131.4	170	224	9.0
840405	3.92	222.3	9.5	29.9	54.3	24.3	47.8	282.1	194.1	204	358	10.0
840406	3.85	217.1	12.8	33.9	60.0	30.0	102.5	214.4	226.9	178	446	7.9
840407	3.86	216.6	13.6	33.9	59.2	32.1	105.7	208.8	254.1	175	475	7.6
840408	3.90	207.1	14.8	31.9	55.1	31.4	115.0	180.5	199.6	177	443	7.1
840409	3.90	207.1	14.8	31.9	55.1	31.4	115.0	180.5	199.6	177	443	7.1
840411	3.90	208.4	14.8	26.4	51.0	25.3	105.7	169.3	226.9	172	380	7.2
840412	3.93	203.6	15.3	27.4	50.2	27.8	107.1	163.6	281.4	156	456	7.0
840414	3.94	191.0	16.1	25.9	46.9	27.5	114.2	158.0	199.6	150	380	7.5
840415	3.95	173.6	14.8	21.5	41.1	26.4	98.2	146.7	199.6	146	338	7.4
840416	3.97	158.8	13.3	20.0	36.2	23.6	86.0	135.4	188.8	130	294	8.1
840417	3.98	154.4	12.5	18.5	34.5	22.1	80.0	129.8	177.8	142	278	7.9
840418	4.03	145.7	12.3	19.0	32.1	20.0	75.0	124.1	166.9	135	263	7.9
840419	4.01	142.7	12.0	17.5	31.3	17.1	69.3	124.1	156.0	168	216	8.3
840424	4.25	60.9	7.2	7.5	9.9	11.1	34.3	56.4	46.9	118	51	8.9
840425	4.25	62.2	6.4	7.5	9.9	9.6	27.8	50.8	41.4	105	73	8.4
840426	4.35	47.4	5.6	6.5	8.2	7.9	24.3	39.5	16.9	92	59	7.2
840428	4.26	56.5	5.6	8.0	9.9	5.0	21.4	50.8	33.3	139	81	8.8

	840429	4.31	53.5	5.1	7.0	9.9	4.3	20.7	45.1	30.5	128	67	9.0
	840430	4.30	58.7	5.1	8.5	10.7	3.6	19.3	50.8	38.6	145	65	9.4
	840501	4.26	57.0	5.1	7.5	13.2	3.6	20.0	45.1	36.0	147	67	9.4
	840502	4.20	63.5	8.7	11.0	14.0	10.7	30.0	50.8	55.0	139	61	11.7
	840503	4.14	67.4	8.2	11.0	14.0	5.7	28.6	56.4	60.5	147	69	10.9
	840504	4.21	74.8	9.5	15.0	15.6	4.6	19.6	67.7	79.6	155	101	11.0
	840505	4.20	73.1	6.6	11.5	14.0	2.5	13.6	62.1	79.6	144	110	11.3
	840506	4.21	76.1	6.6	12.0	14.0	2.5	9.8	67.7	76.9	149	107	11.1
	840507	4.23	76.1	6.4	14.5	14.0	1.8	8.7	67.7	76.9	152	101	11.3
	840508	4.31	84.0	8.9	19.5	15.6	5.0	4.7	76.2	74.1	153	117	11.2
	840509	4.31	84.8	8.9	18.5	15.6	1.4	3.3	79.0	71.4	145	107	11.3
	840510	4.31	81.8	8.7	19.0	14.8	1.8	3.2	73.3	71.4	148	111	11.3
	840511	4.33	82.2	8.7	19.5	14.8	0.3	3.1	73.3	76.9	150	107	11.2
	840512	4.29	81.3	8.9	19.0	14.8	1.8	3.5	73.3	68.6	153	81	11.4
	840513	4.29	84.4	8.7	20.0	14.8	1.1	3.2	73.3	71.4	156	106	11.9
	840514	4.30	81.8	8.7	20.0	15.6	0.3	3.4	73.3	71.4	147	113	11.6
	840515	4.04	83.5	6.9	15.0	21.4	2.9	37.8	79.0	87.8	185	108	11.8
	840516	4.14	84.0	7.2	21.5	19.7	2.1	21.1	79.0	93.3	194	119	13.0
	840517	4.12	88.7	7.7	18.0	20.6	1.1	20.7	79.0	90.5	187	110	11.5
	840519	4.10	90.5	7.7	16.5	21.4	0.7	32.8	67.7	117.8	169	123	10.8
	840520	4.10	90.9	7.4	15.0	19.7	0.3	20.0	70.5	115.0	188	126	11.2
	840521	4.15	91.8	7.2	16.0	18.9	0.3	12.5	70.5	115.0	182	106	11.6
	840522	4.19	93.1	8.9	19.5	18.1	0.7	6.1	84.6	109.6	172	112	11.4
	840523	4.19	92.2	9.7	19.5	18.1	1.8	4.3	67.7	117.8	165	118	11.4
	840524	4.19	93.1	9.7	19.5	18.1	2.1	4.2	67.7	117.8	162	124	11.4
	840525	4.22	93.5	9.7	20.5	18.1	1.4	4.1	67.7	115.0	162	119	11.8
	840526	4.20	93.5	10.0	20.0	18.9	3.2	4.2	67.7	115.0	174	121	11.7
	840527	4.21	93.5	9.7	21.5	18.9	2.9	4.4	67.7	109.6	174	132	11.8
	840528	4.21	93.5	9.7	21.0	18.9	2.5	4.2	67.7	106.9	168	135	11.9
	840529	4.21	93.5	9.7	21.0	18.9	1.4	4.1	67.7	106.9	163	128	11.9
	840530	4.20	94.8	8.7	21.0	18.1	3.6	3.9	62.1	128.6	159	117	11.6
	840531	4.23	92.2	8.7	22.0	18.1	3.6	4.5	62.1	131.4	160	116	12.2
	840601	4.21	94.0	8.9	21.5	18.1	5.0	4.0	62.1	120.5	160	114	12.2
	840602	4.09	104.0	7.9	22.5	25.5	6.4	13.6	56.4	175.0	176	312	12.3
	840603	3.99	107.4	4.1	22.0	30.4	2.9	22.1	50.8	199.6	199	326	12.4
	840604	4.00	107.9	3.6	23.0	29.6	1.8	17.8	50.8	199.6	190	327	12.3
	840605	4.00	108.8	3.6	23.5	29.6	1.4	17.8	50.8	196.9	189	305	12.6
	840606	4.00	107.9	3.8	23.5	29.6	1.8	18.2	50.8	194.1	183	267	12.4
	840607	4.05	107.9	3.8	26.4	30.4	1.4	18.2	50.8	199.6	180	246	12.7
	840806	3.99	121.8	6.1	28.4	30.4	23.2	25.7	62.1	183.3	318	142	16.7
0100	840921	3.92	87.0	3.3	18.5	21.4	5.7	9.6	81.8	147.8	367	121	22.0
0300	840921	3.90	96.1	2.8	15.0	21.4	2.1	4.8	95.9	134.1	447	93	26.8
0600	840921	3.91	96.1	1.8	14.5	18.9	1.1	4.1	93.1	131.4	-99	-99	25.6
	840922	3.94	93.5	2.3	13.0	17.3	2.5	3.0	95.9	123.3	431	137	23.8

840926	3.97	85.3	2.3	11.5	14.8	1.1	2.3	90.3	93.3	330	186	21.6	
840930	4.00	79.6	3.1	11.0	14.0	2.1	2.9	87.5	85.0	342	82	22.0	
841001	4.01	77.9	2.0	10.0	12.3	0.7	1.6	81.8	79.6	296	88	21.5	
841002	4.07	71.8	2.0	8.0	11.5	0.7	1.9	79.0	76.9	284	88	19.3	
841004	4.07	75.7	3.3	9.0	11.5	1.1	2.9	81.8	79.6	300	110	18.8	
841005	4.09	68.3	2.3	7.5	10.7	0.3	1.6	73.3	68.6	337	61	23.7	
841006	4.10	61.3	2.8	7.0	9.9	0.7	2.1	67.7	57.8	284	60	21.3	
841008	4.11	63.9	2.3	7.0	9.0	0.3	1.1	70.5	60.5	290	82	19.5	
841013	4.12	70.0	3.8	9.0	11.5	2.1	0.7	79.0	60.5	325	139	22.2	
841018	4.07	72.2	3.3	8.5	12.3	1.4	2.1	90.3	57.8	344	70	23.4	
841020	4.06	75.3	3.1	9.5	12.3	1.1	1.6	110.0	57.8	291	151	21.1	
841025	3.99	87.4	3.8	12.0	17.3	1.8	1.2	189.0	33.3	221	206	13.2	
841031	4.21	57.9	2.8	8.5	8.2	0.3	0.8	81.8	41.4	211	65	14.9	
841104	4.14	63.9	3.1	8.0	9.9	2.1	0.8	87.5	46.9	314	62	16.4	
841107	4.14	64.4	3.3	9.0	9.9	1.8	1.2	76.2	57.8	275	89	15.9	
841109	4.13	66.1	3.8	9.0	11.5	1.8	1.9	67.7	85.0	290	96	18.3	
841119	4.02	129.6	11.0	24.0	32.1	24.3	25.3	183.4	128.6	240	326	16.0	
841123	4.00	97.4	7.7	14.0	22.2	7.9	17.8	132.6	104.1	243	345	15.6	
841128	3.92	101.8	8.4	15.5	25.5	5.0	16.4	174.9	76.9	217	159	11.6	
841129	3.97	93.1	5.6	12.5	20.6	4.3	10.2	160.8	60.5	212	140	11.6	
841205	4.04	90.0	4.6	10.5	17.3	5.7	4.1	152.3	60.5	233	133	11.6	
841210	4.08	84.4	4.3	8.0	14.0	1.1	3.4	126.9	68.6	238	122	11.5	
841220	4.14	100.9	9.7	15.5	18.1	11.1	11.4	146.7	63.3	217	101	13.6	
850205	4.04	112.2	12.0	17.5	23.0	18.6	13.3	186.2	76.9	218	79	13.2	
850219	4.02	120.1	11.5	21.0	26.3	17.8	14.1	200.3	71.4	-99	-99	-99.0	
850226	4.11	161.4	56.8	62.9	68.3	20.7	16.8	276.5	128.6	207	45	30.1	
850307	4.13	109.2	42.4	42.4	42.0	17.8	6.5	200.3	96.0	213	38	21.4	
850313	4.05	143.5	33.0	51.4	48.5	25.7	21.1	273.6	131.4	131	24	19.2	
850318	4.01	147.9	23.3	34.9	33.7	26.1	32.1	242.6	93.3	78	51	12.8	
850326	4.13	121.8	29.9	32.4	25.5	36.1	2.9	180.5	93.3	147	44	15.6	
850402	4.11	104.0	21.0	27.9	28.0	32.1	10.0	174.9	120.5	201	86	17.4	
850403	4.04	114.4	16.1	17.0	24.7	28.6	17.8	152.3	112.4	176	73	13.9	
850406	4.14	115.7	14.8	13.0	22.2	19.3	9.4	152.3	96.0	216	70	15.7	
850414	4.23	103.1	12.0	11.5	18.9	22.1	9.3	135.4	93.3	224	214	12.4	
850415	4.11	94.4	14.1	13.5	18.9	20.7	21.1	110.0	93.3	193	46	13.5	
1000 2000	850415	4.10	96.1	13.3	12.0	18.1	23.2	25.0	107.2	85.0	182	42	13.5
850415	4.19	97.0	14.1	14.0	18.9	27.5	12.6	121.3	87.8	221	125	13.9	
850416	4.13	95.3	12.5	11.5	17.3	19.3	21.1	104.4	85.0	209	83	12.3	
850417	4.26	79.2	12.5	10.5	14.8	15.7	16.8	84.6	55.0	201	79	12.4	
850418	4.27	75.3	12.3	9.0	13.2	19.3	15.0	79.0	55.0	206	64	13.0	
850421	4.33	73.9	14.8	8.5	13.2	21.1	11.9	79.0	55.0	245	63	12.9	
850423	4.36	68.7	14.3	7.5	10.7	23.2	13.1	73.3	52.4	245	58	15.5	
850430	4.34	78.7	16.6	8.0	12.3	25.7	4.3	87.5	60.5	292	114	17.8	

	850502	4.39	72.6	16.6	8.5	11.5	30.0	7.0	79.0	60.5	259	123	16.8
	850503	4.27	72.2	15.1	8.0	11.5	22.1	9.9	76.2	66.0	230	59	15.5
	850507	4.25	78.3	15.6	8.5	12.3	18.6	6.7	81.8	71.4	234	112	15.5
	850512	4.26	84.0	17.9	9.0	12.3	17.5	5.0	87.5	76.9	301	87	18.6
	850518	4.13	97.4	13.8	10.0	18.1	11.8	7.4	115.7	82.4	278	96	15.4
	850530	4.11	108.8	11.0	11.5	19.7	6.1	3.7	132.6	63.3	312	100	19.0
	850620	4.14	120.5	11.0	17.0	24.7	18.9	7.1	146.7	87.8	298	124	16.9
1000	850620	4.01	120.5	2.6	14.0	25.5	2.5	4.1	143.9	104.1	320	140	18.4
2000	850620	4.04	118.3	2.0	13.0	24.7	2.9	1.4	141.0	104.1	319	133	15.8
1000	850719	3.90	131.4	2.3	16.0	25.5	2.9	1.8	152.3	106.9	496	112	31.1
2000	850719	3.94	127.0	1.3	15.5	24.7	3.2	1.4	149.5	93.3	453	169	27.4
	850720	3.94	128.8	1.0	14.5	23.9	3.6	1.1	143.9	93.3	460	154	26.6
1000	850730	4.02	124.4	2.3	13.5	18.1	7.9	7.3	132.6	74.1	402	146	27.2
2000	850730	4.01	119.2	1.5	12.5	18.1	2.9	4.9	132.6	74.1	412	104	25.5
	850731	4.04	115.7	1.5	11.5	16.5	3.2	3.3	129.8	66.0	382	166	20.9
	850803	4.11	105.3	1.8	10.0	13.2	3.6	2.1	124.1	52.4	371	83	19.0
	850808	4.13	107.0	3.6	9.5	13.2	5.4	0.9	124.1	49.6	402	52	21.7
	850809	4.17	96.6	2.0	8.5	11.5	4.3	1.4	110.0	36.0	295	97	19.2
	850810	4.10	96.6	1.8	9.5	13.2	2.9	1.2	115.7	44.1	338	84	23.4
	850812	4.13	97.4	1.8	8.0	12.3	2.1	0.7	112.8	41.4	341	99	24.6
	850815	4.15	94.8	2.0	9.0	11.5	2.5	0.9	118.5	41.4	310	112	22.4
	850820	4.08	103.5	1.5	10.0	13.2	2.1	1.3	118.5	44.1	394	66	29.8
1000	850821	4.10	88.3	1.8	9.0	12.3	1.4	1.0	98.7	46.9	344	104	31.2
2000	850821	4.12	102.7	2.0	9.5	13.2	1.8	1.4	112.8	41.4	334	108	27.6
	850822	4.20	85.7	3.1	8.5	9.9	4.3	3.0	98.7	30.5	405	77	23.3
	850825	4.23	84.0	2.6	8.5	9.9	3.2	2.5	93.1	27.8	394	78	22.4
	850829	4.14	90.0	2.0	8.5	11.5	2.5	1.1	104.4	41.4	426	118	28.9
0800	850903	4.07	76.6	3.6	11.0	13.2	2.9	17.5	95.9	38.6	273	65	21.7
1600	850903	4.03	87.4	2.6	11.5	14.0	2.1	8.9	121.3	41.4	331	77	27.0
2300	850903	4.05	80.0	2.8	10.0	13.2	2.9	6.4	107.2	36.0	261	39	24.7
	850905	4.16	86.6	3.6	9.0	10.7	1.8	1.6	112.8	19.7	299	123	21.1
	850906	4.07	90.9	2.0	10.0	12.3	1.4	1.7	126.9	33.3	316	104	25.2
	850908	4.12	87.0	2.3	8.5	10.7	1.1	1.4	121.3	25.0	320	118	21.9
	850915	3.96	56.5	3.3	28.9	27.1	21.8	81.8	84.6	81.2	166	110	9.7
	850919	4.34	34.4	1.0	6.0	5.8	4.6	20.7	31.0	39.6	59	26	5.1
	850920	4.14	62.2	2.6	10.5	12.3	5.7	28.6	67.7	60.4	136	73	8.3
	850922	4.20	73.9	2.6	9.0	10.7	1.1	3.9	98.7	33.3	229	127	12.9
	851001	4.19	50.9	3.1	11.5	13.2	3.2	22.5	48.0	50.0	155	64	10.9
	851004	4.03	106.1	4.9	12.5	19.7	5.0	7.0	135.4	43.7	408	140	24.5
	851005	4.05	107.4	4.1	11.0	17.3	3.6	3.2	138.2	39.6	392	140	22.4
	851007	4.14	103.1	5.6	12.0	17.3	3.6	3.4	138.2	27.1	360	144	18.5
	851011	4.07	107.0	4.9	12.0	17.3	2.1	2.9	124.1	43.7	392	118	24.0
	851105	3.96	127.9	8.2	16.0	27.1	12.5	24.3	160.8	97.9	347	189	26.1
0300	851106	3.96	123.5	6.9	15.5	25.5	9.6	22.1	158.0	108.3	347	161	24.3
0900	851106	3.98	120.9	5.6	15.5	24.7	8.9	20.0	160.8	91.6	347	145	24.1
1430	851106	3.99	117.4	5.6	14.0	23.0	7.5	18.6	158.0	85.4	344	144	21.7

TABLE 3.

ROLF CATCHMENT RUNOFF DATA UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
TOC MG C/L. -99.0=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	ILAL	LAL	TOC
830905	3.66	217.5	58.3	156.7	208.9	214.2	90.7	338.5	963.2	-99	-99	20.7
830910	4.05	82.2	37.1	43.4	48.5	35.0	37.1	98.7	226.9	-99	-99	9.5
831011	3.91	121.4	7.9	25.9	42.8	3.6	7.9	231.3	101.4	326	204	13.8
831107	3.89	130.5	4.9	27.4	37.0	0.7	5.0	287.7	71.4	287	189	10.9
831215	3.77	433.7	12.8	53.9	112.7	25.0	55.7	564.2	281.4	158	1054	8.3
840415	3.97	117.9	10.5	25.0	46.9	55.3	106.0	59.2	254.1	130	183	7.9
840420	4.18	57.0	5.6	11.0	18.1	23.9	53.2	39.5	85.0	92	61	6.9
840424	4.47	36.5	4.9	3.5	4.9	17.1	16.8	39.5	11.4	77	19	6.7
840503	4.08	93.1	6.1	11.5	15.6	8.9	24.6	73.3	82.4	147	102	12.3
840518	3.97	111.4	7.2	19.0	25.5	9.3	45.3	73.3	134.1	136	101	10.9
840621	4.02	51.3	5.9	24.5	28.0	5.7	82.5	33.9	68.6	130	102	16.3
840716	3.90	134.0	3.8	25.0	33.7	3.9	22.5	59.2	254.1	218	150	18.8
840802	3.95	43.5	6.1	33.4	25.5	0.8	33.2	16.9	183.3	96	156	20.0
840921	3.89	106.6	2.8	19.0	30.4	3.2	3.5	118.5	161.4	244	132	18.0
840925	3.95	109.6	2.6	14.0	22.2	1.1	1.6	121.3	112.4	250	198	20.8
840927	3.95	113.1	3.1	14.5	21.4	1.1	1.3	132.6	104.1	297	215	24.2
840930	3.99	107.4	2.6	28.9	24.7	10.4	7.7	107.2	126.0	246	132	21.6
841001	3.94	106.6	3.1	15.5	22.2	1.1	9.0	95.9	136.9	226	118	17.7
841002	4.04	88.3	2.6	11.0	16.5	1.1	3.8	84.6	104.1	222	72	16.2
841004	4.03	91.8	3.6	13.0	18.1	5.0	17.1	84.6	101.4	215	55	18.2
841005	4.06	88.3	2.8	11.0	15.6	0.3	8.4	79.0	93.3	273	85	9.2
841008	4.13	76.6	3.3	11.0	14.0	0.7	1.7	67.7	74.1	299	67	19.7
841017	4.11	81.8	2.6	10.5	14.8	1.8	2.4	90.3	63.3	339	95	24.7
841019	4.08	89.6	2.6	11.5	18.1	2.1	4.0	121.3	52.4	234	42	16.7
841025	4.12	76.6	2.6	9.0	13.2	0.7	14.6	87.5	60.5	19	19	11.7
841029	4.04	100.1	2.8	11.0	18.1	0.7	10.6	160.8	41.4	159	76	12.2
841031	4.06	95.3	3.1	11.0	16.5	0.3	7.6	141.0	46.9	168	69	12.3
841105	4.00	107.9	3.3	16.0	23.0	5.0	25.3	129.8	93.3	217	64	13.9
841112	3.98	122.7	3.8	19.0	28.8	3.2	21.4	138.2	147.8	149	110	9.4
841123	3.85	164.4	8.9	33.4	51.8	23.6	75.7	225.7	188.8	64	158	5.1
841129	3.91	144.9	4.3	19.5	34.5	6.8	23.2	231.3	66.0	112	122	6.8
841205	3.90	143.5	5.9	22.0	35.4	17.8	30.7	239.8	96.0	158	125	9.3
841212	3.93	163.6	6.6	19.5	35.4	6.4	25.3	220.0	136.9	161	169	9.9
841220	3.99	137.5	4.9	16.0	28.0	13.2	52.8	149.5	115.0	85	82	5.2
850205	4.22	87.4	11.0	11.0	14.8	37.8	16.1	90.3	112.4	218	37	16.4
850226	4.03	163.6	12.3	24.5	45.2	45.0	61.0	158.0	180.5	200	124	12.7
850307	4.03	136.6	9.5	20.5	35.4	92.8	-99.0	135.4	169.6	172	124	11.1

	850313	3.92	182.7	9.2	26.4	52.6	31.8	94.2	135.4	281.4	109	271	8.5
	850318	3.98	130.5	8.7	21.5	40.3	37.8	76.4	104.4	226.9	125	159	8.3
	850326	4.09	126.1	7.9	14.5	25.5	29.6	33.6	76.2	164.1	178	102	11.4
	850402	4.01	127.9	8.9	21.5	40.3	42.5	54.6	81.8	281.4	141	235	9.7
	850405	3.99	124.0	9.2	21.0	40.3	36.1	62.8	70.5	199.6	144	130	8.5
	850414	4.01	120.5	9.5	19.0	35.4	44.6	54.3	70.5	199.6	169	110	10.5
1000	850415	3.97	117.9	10.5	25.0	46.9	55.3	106.0	59.2	254.1	130	183	7.9
2000	850415	3.96	141.4	11.5	25.9	51.8	56.4	100.0	73.3	281.4	154	216	8.6
	850416	3.99	105.3	8.7	19.5	38.7	43.9	95.0	50.8	196.9	128	116	8.1
	850418	4.18	65.2	6.1	10.5	18.1	24.6	49.3	36.7	96.0	99	62	7.5
	850420	4.18	57.0	5.6	11.0	18.1	23.9	53.2	39.5	85.0	92	61	6.9
	850421	4.19	58.7	5.6	10.0	18.1	22.5	50.0	45.1	71.4	79	49	6.1
	850423	4.29	39.6	4.9	6.0	9.9	17.5	26.1	33.9	44.1	96	19	7.6
	850425	4.32	36.1	4.1	5.5	9.0	17.8	21.1	31.0	38.6	112	14	8.0
	850430	4.33	39.6	4.3	6.0	10.7	15.4	17.8	36.7	38.6	125	20	9.2
	850503	4.31	38.7	4.1	6.5	9.9	12.5	17.8	31.0	33.3	120	24	9.2
	850507	4.33	34.8	3.6	6.0	9.0	12.9	13.6	28.2	30.5	136	24	9.8
	850512	4.30	34.4	3.8	6.5	9.9	13.9	11.4	28.2	36.0	173	9	10.9
	850516	4.16	51.8	5.9	13.0	19.7	8.6	19.6	53.6	74.1	209	57	13.6
	850530	4.01	73.9	4.6	20.5	32.1	6.8	31.8	67.7	142.4	267	127	16.1
	850627	4.08	39.6	5.9	14.5	19.7	7.5	23.6	33.9	79.6	119	26	13.8
	850628	3.99	54.8	1.5	16.5	27.1	4.3	16.1	36.7	139.6	199	82	17.1
1000	850719	3.92	60.0	0.5	17.5	28.0	1.4	3.1	56.4	128.6	283	112	21.3
2000	850719	3.97	65.7	0.7	18.5	30.4	6.8	2.4	53.6	150.5	301	131	18.6
1000	850730	3.97	49.2	0.5	15.5	21.4	8.2	1.6	39.5	104.1	239	43	23.5
2000	850730	3.96	54.4	0.2	15.5	23.0	7.1	0.5	42.3	131.4	307	165	19.2
1000	850805	3.76	51.3	0.5	15.5	21.4	2.1	0.4	79.0	74.1	219	11	23.8
2000	850805	4.09	30.5	0.7	8.0	9.0	3.2	0.5	36.7	22.3	98	1	15.8
3000	850805	4.19	25.2	0.5	5.0	5.8	2.5	0.7	25.4	8.6	23	46	13.1
	850807	3.95	52.6	1.0	16.5	23.9	3.6	2.6	53.6	117.8	250	78	21.8
	850811	4.06	57.0	0.5	14.0	19.7	1.4	1.9	79.0	63.3	273	99	23.3
	850815	3.92	61.3	0.5	21.0	28.0	2.9	10.3	93.1	104.1	212	72	19.7
	850820	3.99	59.2	0.5	17.0	23.9	1.1	2.1	93.1	96.0	272	116	24.3
	850821	4.00	60.5	0.5	16.0	22.2	0.7	0.5	95.9	85.0	266	96	25.7
	850824	4.02	52.2	0.5	14.5	16.5	5.0	9.6	79.0	63.3	167	48	18.1
	850825	4.07	48.3	0.5	11.0	14.0	1.8	5.7	64.9	60.5	23	187	18.0
	850826	4.03	53.9	0.5	15.5	16.5	1.4	0.5	112.8	41.4	179	61	17.5
	850903	3.93	70.9	0.5	18.0	23.9	1.4	6.4	141.0	63.3	218	62	20.5
	850904	4.00	58.3	0.5	13.0	17.3	1.1	3.5	104.4	55.0	212	58	18.6
	850906	4.10	45.2	0.5	8.0	10.7	0.7	0.6	64.9	30.5	193	26	20.5
	850915	4.01	63.9	0.7	15.0	20.6	1.8	10.8	84.6	60.4	300	102	19.7
	850919	3.99	65.7	1.3	15.0	21.4	3.2	6.4	107.2	52.0	243	51	20.7
	850920	3.99	69.6	1.0	15.5	21.4	0.7	3.4	110.0	50.0	243	62	19.7
	851002	4.01	-99.0	-99.0	-99.0	-99.0	-99.0	11.1	110.0	56.2	283	153	-99.0

	851007	3.78	120.9	4.1	35.4	55.1	3.6	42.8	189.0	127.0	232	148	19.5
	851011	4.01	76.1	2.0	13.5	20.6	2.9	4.1	112.8	47.9	258	80	20.7
0800	851011	4.02	84.4	2.8	15.5	21.4	2.5	2.8	115.7	45.8	263	123	21.8
1000	851105	3.77	142.7	7.2	37.4	63.3	5.4	53.5	242.6	164.5	240	252	13.2
	851106	3.86	124.4	2.6	26.4	45.2	3.6	37.1	191.8	147.8	198	142	11.1

TABLE 4.

EGIL CATCHMENT PRECIPITATION DATA. WEEKLY BULK SAMPLES. UNITS: UEQ/L.

DATE ON	DATE OFF	MM	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4
841029-841107		46.7	4.11	43.5	4.1	10.0	10.7	55.7	64.3	48.0	87.4
841114-841121		31.7	4.13	113.1	6.6	15.0	28.8	94.2	60.7	141.0	134.9
841121-841129		108.3	4.16	113.1	5.1	5.0	26.3	50.0	57.8	143.9	81.2
841129-841206		41.4	3.93	56.5	5.6	15.0	14.0	128.5	115.0	67.7	156.1
841206-841212		4.0	4.18	73.9	6.6	10.0	16.5	31.4	47.1	93.1	73.7
841212-850429		114	4.42	47.8	5.1	5.0	10.7	7.1	61.4	62.1	43.7
850430-850507		16.9	4.60	4.3	0.2	5.0	0.8	20.0	16.4	2.8	31.9
850507-850515		6.4	4.78	8.7	7.9	74.8	14.0	107.1	42.1	8.5	189.9
850515-850523		12.4	4.31	4.3	1.3	20.0	3.3	51.4	25.7	2.8	93.7
850523-850530		17.5	3.73	21.8	4.6	20.0	7.4	121.4	112.8	25.4	216.7
850606-850613		21.3	4.40	21.8	6.1	5.0	7.4	35.7	25.0	19.7	45.0
850613-850620		39.2	4.49	8.7	5.1	5.0	0.8	14.3	12.9	2.8	48.1
850627-850704		41.1	6.40	30.5	22.0	25.0	10.7	164.2	15.7	19.7	63.7
850704-850711		11.3	3.96	13.0	2.6	10.0	4.1	14.3	13.6	11.3	110.6
850711-850719		72.6	4.01	13.0	0.7	5.0	2.5	34.3	41.4	11.3	76.8
850719-850725		1.9	4.37	30.5	3.6	5.0	8.2	2.9	0.7	31.0	38.7
850725-850801		47.5	4.40	4.3	0.2	5.0	0.8	2.9	3.6	2.8	36.2
850801-850808		109.9	4.63	21.8	1.5	5.0	4.9	4.3	1.4	16.9	18.1
850808-850815		69.1	4.00	26.1	2.6	5.0	7.4	54.3	50.7	31.0	100.6
850815-850822		3.2	4.08	17.4	0.7	5.0	5.8	4.3	14.3	19.7	46.8
850822-850829		101.2	4.27	43.5	1.8	5.0	10.7	31.4	33.6	53.6	43.1
850829-850905		51.9	4.25	13.0	1.5	5.0	3.3	22.8	31.4	16.9	44.3
850905-850911		34.4	5.09	4.3	1.3	5.0	0.8	2.9	2.1	5.6	10.0
850911-850919		44.3	4.08	43.5	5.4	10.0	9.9	63.5	70.7	56.4	76.2
850919-850927		14.3	4.08	21.8	4.3	5.0	4.9	25.0	35.7	31.0	59.3
850927-851002		8.0	4.10	4.3	4.1	20.0	4.9	25.0	15.7	11.3	84.9
851002-851011		74.8	4.25	39.1	2.8	10.0	8.2	62.8	62.1	42.3	69.3
851107-851114		44.7	4.21	91.3	6.1	34.9	24.7	72.8	44.3	112.8	134.3

TABLE 5.

KIM CATCHMENT PRECIPITATION DATA. WEEKLY BULK SAMPLES. UNITS: UEQ/L

DATE ON	DATE OFF	MM	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4
841029-841107		68.5	5.05	30.5	1.5	5.0	7.4	2.9	7.9	36.7	11.9
841107-841114		13.7	4.79	26.1	6.6	5.0	57.6	3.6	7.1	39.5	15.6
841121-841129		66.2	4.82	100.1	3.8	5.0	21.4	2.9	3.6	138.2	16.9
841129-841206		29.9	5.01	78.3	1.8	5.0	18.1	2.9	7.1	95.9	20.6
841206-841212		20.1	4.85	82.6	3.6	5.0	18.9	5.7	0.7	107.2	12.5
841212-840429		114	4.80	56.5	2.8	5.0	13.2	0.0	0.7	73.3	8.1
850430-850507		15.3	5.23	104.4	2.0	5.0	24.7	5.7	2.9	121.3	17.5
850507-850515		1.0	5.79	147.9	-99.0	20.0	24.7	-99.0	41.4	-99.0	63.7
850515-850523		20.9	5.02	100.1	3.8	5.0	23.0	2.9	0.7	115.7	15.6
850523-850530		14.6	5.38	117.4	5.6	10.0	27.1	7.1	2.9	129.8	20.6
850606-850613		20.7	5.30	56.5	8.2	5.0	14.8	12.9	0.7	67.7	12.5
850613-850620		38.5	5.34	47.8	2.0	5.0	12.3	2.9	0.7	76.2	10.0
850627-850704		13.7	5.31	56.5	3.1	5.0	14.8	2.9	0.7	84.6	10.0

TABLE 6 A.

RISDALSHEIA DISCHARGE DATA. MM/DAY.

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
840325	0.000	0.9300		840503	0.000	0.0000	
840326	0.000	0.0000		840504	0.000	0.0000	
840327	0.000	0.0000		840505	2.139	0.9300	
840328	0.000	0.0000		840506	0.000	0.0000	
840329	0.000	0.0000		840507	0.000	0.0000	
840330	1.426	0.0000		840508	0.000	0.0000	
840331	0.000	0.0000		840509	0.000	0.0000	
840401	0.000	0.0000		840510	0.000	0.0000	
840402	0.000	0.0000		840511	0.000	0.0000	
840403	8.556	4.6500		840512	7.130	3.7200	
840404	8.556	4.6500		840513	7.130	3.7200	
840405	8.556	4.6500		840514	0.000	0.0000	
840406	8.556	4.6500		840515	0.000	0.0000	
840407	8.556	4.6500		840516	0.000	0.0000	
840408	8.556	4.6500		840517	0.000	0.0000	
840409	9.269	3.7200		840518	0.000	0.0000	
840410	14.973	9.3000		840519	0.000	0.0000	
840411	14.973	9.3000		840520	6.417	4.6500	
840412	14.973	9.3000		840521	6.417	4.6500	
840413	14.973	9.3000		840522	0.000	0.0000	
840414	14.973	9.3000		840523	0.000	0.0000	
840415	14.973	9.3000		840524	0.000	0.0000	
840416	13.547	7.4400		840525	0.000	0.0000	
840417	17.112	8.3700		840526	0.000	0.0000	
840418	17.112	8.3700		840527	0.000	0.0000	
840419	17.112	8.3700		840528	0.000	0.0000	
840420	17.112	8.3700		840529	0.000	0.0000	
840421	17.112	8.3700		840530	0.000	0.0000	
840422	17.112	8.3700		840531	0.000	0.0000	
840423	19.251	6.5100		840601	0.000	0.0000	
840424	13.547	4.6500		840602	0.000	0.0000	
840425	13.547	4.6500		840603	0.000	0.0000	
840426	13.547	4.6500		840604	0.000	0.0000	
840427	13.547	4.6500		840605	2.852	0.9300	
840428	13.547	4.6500		840606	0.000	0.0000	
840429	13.547	4.6500		840607	0.000	0.0000	
840430	16.399	7.4400		840608	0.000	0.0000	
840501	0.000	0.0000		840609	0.000	0.0000	
840502	0.000	0.0000		840610	0.000	0.0000	
				840611	0.000	0.0000	
				840612	0.000	0.0000	
				840613	0.000	0.0000	
				840614	0.000	0.0000	
				840615	0.000	0.0000	

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
840616	0.000	0.0000		840730	0.000	0.0000	
840617	0.000	0.0000		840731	0.000	0.0000	
840618	0.000	0.0000		840801	0.000	0.0000	
840619	0.000	0.0000		840802	0.000	0.0000	
840620	0.000	0.0000		840803	0.000	0.0000	
840621	0.000	0.0000		840804	0.000	4.6500	
840622	0.000	0.0000		840805	0.713	4.6500	
840623	0.000	0.0000		840806	0.000	4.6500	
840624	0.000	0.0000		840807	0.000	0.0000	
840625	0.000	0.0000		840808	0.000	0.0000	
840626	0.000	0.0000		840809	0.000	0.0000	
840627	0.000	0.0000		840810	0.000	0.0000	
840628	0.000	0.0000		840811	0.000	0.0000	
840629	0.000	0.0000		840812	0.000	0.0000	
840630	0.000	0.0000		840813	0.000	0.0000	
840701	0.000	0.0000		840814	0.000	0.0000	
840702	0.000	0.0000		840815	0.000	0.0000	
840703	0.000	0.0000		840816	0.000	0.0000	
840704	0.000	0.0000		840817	0.000	0.0000	
840705	0.000	0.0000		840818	0.000	0.0000	
840706	0.000	0.0000		840819	0.000	0.0000	
840707	0.000	0.0000		840820	0.000	0.0000	
840708	0.000	0.0000		840821	0.000	0.0000	
840709	0.000	0.0000		840822	0.000	0.0000	
840710	0.000	0.0000		840823	0.000	0.0000	
840711	0.000	0.0000		840824	0.000	0.0000	
840712	0.000	0.0000		840825	0.000	0.0000	
840713	0.000	0.0000		840826	0.000	0.0000	
840714	0.000	0.0000		840827	0.000	0.0000	
840715	0.000	0.0000		840828	0.000	0.0000	
840716	0.000	0.0000		840829	0.000	0.0000	
840717	0.000	0.0000		840830	0.000	0.0000	
840718	0.000	0.0000		840831	0.000	0.0000	
840719	0.000	0.0000		840901	0.000	0.0000	
840720	0.000	0.9300		840902	0.000	0.0000	
840721	0.000	0.0000		840903	0.000	0.0000	
840722	0.000	0.0000		840904	0.000	0.0000	
840723	0.000	0.0000		840905	0.000	0.0000	
840724	0.000	0.0000		840906	0.000	0.0000	
840725	0.000	0.0000		840907	0.000	0.0000	
840726	0.000	0.0000		840908	0.000	0.0000	
840727	0.000	0.0000		840909	0.000	0.0000	
840728	0.000	0.0000		840910	2.852	7.4400	
840729	0.000	0.0000		840911	2.852	7.4400	

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
840912	2.852	7.4400		841026	14.973	26.0400	
840913	4.278	10.2300		841027	7.130	0.0000	
840914	0.000	5.5800		841028	2.852	0.0000	
840915	0.000	2.7900		841029	15.686	0.0000	
840916	0.000	0.0000		841030	8.556	0.0000	
840917	0.000	0.0000		841031	12.834	0.0000	
840918	2.139	5.5800		841101	1.426	1.8600	1.6200
840919	2.139	5.5800		841102	0.713	0.0000	1.6200
840920	2.139	5.5800		841103	0.713	0.9300	1.6200
840921	2.139	7.4400		841104	3.565	0.0000	1.6200
840922	12.834	21.3900		841105	12.121	0.0000	9.7200
840923	7.843	9.3000		841106	0.713	0.9300	0.0000
840924	7.130	6.5100		841107	5.704	4.6500	3.2400
840925	7.130	9.3000		841108	2.139	4.6500	3.2400
840926	2.139	2.7900		841109	6.417	12.0900	8.1000
840927	1.426	0.0000		841110	1.426	5.5800	8.1000
840928	0.000	0.0000		841111	2.139	34.4100	30.7800
840929	0.000	14.8800		841113	0.000	0.9300	17.8200
840930	19.964	18.6000		841114	0.000	1.8600	0.0000
841001	1.426	0.9300		841115	1.426	0.0000	0.0000
841002	10.695	12.0900		841117	0.000	0.9300	0.0000
841003	9.269	10.2300		841118	0.000	0.0000	1.6200
841004	2.852	7.4400		841119	0.000	0.0000	1.6200
841005	14.973	9.3000		841120	0.000	0.0000	1.6200
841006	14.260	9.3000		841121	0.713	0.9300	1.6200
841007	0.000	9.3000		841122	4.278	8.3700	69.6600
841008	0.000	11.1600		841123	12.834	24.1800	32.4000
841009	0.000	0.9300		841124	2.139	7.4400	4.8600
841010	0.000	0.0000		841125	0.713	3.7200	1.6200
841011	0.000	0.9300		841126	0.713	0.9300	0.0000
841012	0.000	0.9300		841127	3.565	2.7900	3.2400
841013	2.139	4.6500		841128	27.807	16.7400	30.7800
841014	1.426	0.9300		841129	10.695	2.7900	19.4400
841015	0.000	0.0000		841130	5.704	2.7900	14.5800
841016	0.000	0.0000		841201	3.565	0.9300	1.6200
841017	0.713	9.3000		841202	0.713	0.0000	0.0000
841018	7.130	9.3000		841203	0.000	0.9300	3.2400
841019	7.130	13.9500		841204	2.139	3.7200	3.2400
841020	6.417	13.9500		841205	2.139	2.7900	6.4800
841021	6.417	13.9500		841206	19.964	5.5800	22.6800
841022	6.417	13.9500		841207	6.417	6.5100	1.6200
841023	6.417	13.9500		841208	1.426	6.5100	0.0000
841024	6.417	13.9500		841209	4.278	3.7200	0.0000
841025	6.417	4.6500		841210	0.000	0.0000	0.0000

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
841211	0.000	0.0000	0.0000	850123	0.000	0.0000	0.0000
841212	8.556	2.7900	4.8600	850124	0.000	0.0000	0.0000
841213	0.000	0.0000	0.0000	850125	0.000	0.0000	0.0000
841214	0.000	0.0000	1.6200	850126	0.000	0.0000	0.0000
841215	0.000	0.0000	0.0000	850127	0.000	0.0000	0.0000
841216	0.000	0.0000	0.0000	850128	0.000	0.0000	0.0000
841217	0.000	0.0000	1.6200	850129	0.000	0.0000	0.0000
841218	0.000	1.8600	3.2400	850130	0.000	0.0000	0.0000
841219	0.713	2.7900	8.1000	850131	0.000	0.0000	0.0000
841220	11.408	0.0000	48.6000	850201	0.000	0.9300	1.6200
841221	0.713	0.9300	3.2400	850202	0.000	0.0000	0.0000
841222	0.713	0.0000	3.2400	850203	0.000	0.0000	0.0000
841223	1.426	0.9300	38.8800	850204	0.000	0.0000	0.0000
841224	2.139	2.7900	37.2600	850205	0.000	0.9300	0.0000
841225	0.713	1.8600	22.6800	850206	0.000	0.9300	0.0000
841226	0.713	0.9300	6.4800	850207	0.000	1.8600	0.0000
841227	0.000	0.0000	1.6200	850208	0.000	0.9300	1.6200
841228	0.713	0.9300	1.6200	850209	0.000	0.0000	0.0000
841229	0.713	0.0000	0.0000	850210	0.000	0.0000	0.0000
841230	0.000	0.0000	0.0000	850211	0.000	0.0000	0.0000
841231	0.000	0.0000	0.0000	850212	0.000	0.0000	0.0000
				850213	0.000	0.0000	0.0000
850101	0.000	0.0000	0.0000	850214	0.000	0.0000	1.6200
850102	0.000	0.0000	0.0000	850215	0.000	0.0000	0.0000
850103	0.000	0.0000	0.0000	850216	0.000	0.0000	0.0000
850104	0.000	0.9300	0.0000	850217	0.000	0.0000	0.0000
850105	0.000	0.0000	0.0000	850218	0.000	0.0000	0.0000
850106	0.000	0.0000	0.0000	850219	0.000	0.0000	0.0000
850107	0.000	0.0000	0.0000	850220	0.000	0.0000	0.0000
850108	0.000	0.0000	0.0000	850221	0.000	0.0000	0.0000
850109	0.000	0.0000	0.0000	850222	0.000	0.0000	0.0000
850110	0.000	0.0000	0.0000	850223	0.000	0.0000	0.0000
850111	0.000	0.0000	0.0000	850224	0.000	0.0000	6.4800
850112	0.000	0.0000	0.0000	850225	0.713	0.9300	1.6200
850113	0.000	0.0000	0.0000	850226	0.713	0.9300	1.6200
850114	0.000	0.0000	0.0000	850227	0.713	0.0000	0.0000
850115	0.000	0.0000	0.0000	850228	0.713	0.0000	0.0000
850116	0.000	0.0000	0.0000	850301	0.000	0.0000	1.6200
850117	0.000	0.0000	0.0000	850302	0.000	0.0000	0.0000
850118	0.000	0.0000	0.0000	850303	0.000	0.0000	0.0000
850119	0.000	0.0000	0.0000	850304	0.000	0.0000	0.0000
850120	0.000	0.0000	0.0000	850305	0.000	0.0000	1.6200
850121	0.000	0.0000	0.0000	850306	0.000	0.0000	1.6200
850122	0.000	0.0000	0.0000	850307	2.139	0.9300	0.0000

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
850308	0.000	0.0000	1.6200	850421	5.704	6.5100	21.0600
850309	0.000	0.0000	0.0000	850422	6.417	6.5100	25.9200
850310	0.000	0.0000	3.2400	850423	3.565	4.6500	12.9600
850311	0.000	0.9300	1.6200	850424	2.852	1.8600	6.4800
850312	2.139	1.8600	8.1000	850425	1.426	1.8600	4.8600
850313	7.843	3.7200	11.3400	850426	1.426	1.8600	4.8600
850314	7.843	2.7900	3.2400	850427	0.713	0.9300	4.8600
850315	3.565	2.7900	1.6200	850428	0.713	0.9300	3.2400
850316	2.852	1.8600	1.6200	850429	1.426	1.8600	6.4800
850317	2.139	0.9300	1.6200	850430	1.426	2.7900	8.1000
850318	0.000	0.9300	0.0000	850501	1.426	0.9300	3.2400
850319	0.713	0.0000	0.0000	850502	4.278	8.3700	9.7200
850320	0.713	0.9300	1.6200	850503	5.704	3.7200	6.4800
850321	0.713	0.0000	0.0000	850504	2.852	1.8600	4.8600
850322	0.000	0.9300	0.0000	850505	2.139	0.9300	3.2400
850323	0.713	0.0000	1.6200	850506	2.139	1.8600	6.4800
850324	0.000	0.0000	0.0000	850507	1.426	1.8600	4.8600
850325	0.000	0.0000	0.0000	850508	2.139	0.9300	3.2400
850326	0.713	0.0000	0.0000	850509	0.713	0.0000	0.0000
850327	2.139	0.9300	1.6200	850510	1.426	0.9300	0.0000
850328	0.713	0.0000	0.0000	850511	0.000	0.0000	0.0000
850329	0.713	0.0000	0.0000	850512	0.713	0.0000	1.6200
850330	0.713	0.9300	1.6200	850514	0.713	0.9300	0.0000
850331	0.000	0.0000	0.0000	850515	0.713	0.0000	0.0000
850401	1.426	0.9300	1.6200	850516	6.417	8.3700	4.8600
850402	4.991	0.9300	16.2000	850517	7.130	9.3000	3.2400
850403	3.565	1.8600	4.8600	850518	0.713	4.6500	0.0000
850404	2.852	0.9300	3.2400	850519	0.000	0.0000	0.0000
850405	2.139	1.8600	3.2400	850520	0.000	0.0000	0.0000
850406	1.426	0.0000	1.6200	850521	0.000	0.0000	0.0000
850407	0.713	0.9300	0.0000	850522	0.000	0.0000	0.0000
850408	1.426	0.0000	1.6200	850523	0.000	0.0000	0.0000
850409	0.713	0.9300	0.0000	850524	0.000	0.0000	0.0000
850410	0.713	0.0000	0.0000	850525	0.000	0.0000	0.0000
850411	0.713	0.9300	1.6200	850526	0.000	0.0000	0.0000
850412	0.713	0.0000	0.0000	850527	2.852	0.0000	6.4800
850413	0.713	0.0000	4.8600	850528	0.000	0.0000	0.0000
850414	1.426	1.8600	6.4800	850529	0.000	0.0000	0.0000
850415	8.556	4.6500	11.3400	850530	0.000	1.8600	0.0000
850416	9.982	5.5800	14.5800	850601	0.000	0.0000	0.0000
850417	8.556	7.4400	24.3000	850602	0.000	0.0000	0.0000
850418	7.130	6.5100	16.2000	850603	0.000	0.0000	0.0000
850419	4.278	3.7200	16.2000	850604	0.000	0.0000	0.0000
850420	4.991	4.6500	21.0600	850605	0.000	0.0000	0.0000

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
850606	0.000	0.0000	0.0000	850720	0.000	0.9300	0.0000
850607	0.000	0.0000	0.0000	850721	0.0000	0.0000	0.0000
850608	0.000	0.0000	0.0000	850722	0.0000	0.0000	0.0000
850609	0.000	0.0000	0.0000	850723	0.0000	0.0000	0.0000
850610	0.000	3.7200	0.0000	850724	0.0000	0.0000	0.0000
850611	0.000	0.0000	0.0000	850725	0.0000	0.0000	0.0000
850612	0.000	0.0000	0.0000	850726	0.0000	0.0000	0.0000
850613	0.000	3.7200	0.0000	850727	0.0000	0.0000	0.0000
850614	1.426	3.7200	0.0000	850728	0.0000	0.0000	0.0000
850615	1.426	3.7200	0.0000	850729	0.0000	0.9300	0.0000
850616	1.426	3.7200	0.0000	850730	9.3600	27.9000	22.6800
850617	1.426	3.7200	0.0000	850731	2.7300	0.9300	1.6200
850618	1.426	3.7200	0.0000	850801	0.0000	0.9300	0.0000
850619	2.139	5.5800	0.0000	850802	0.0000	0.0000	1.6200
850620	0.000	3.7200	0.0000	850803	5.4600	5.5800	4.8600
850621	0.000	0.0000	0.0000	850804	3.1200	0.9300	1.6200
850622	0.000	0.0000	0.0000	850805	12.4800	9.3000	71.2800
850623	0.000	0.0000	0.0000	850806	0.0000	0.0000	0.0000
850624	0.000	0.0000	0.0000	850807	13.2600	2.7900	4.8600
850625	0.000	0.0000	0.0000	850808	0.7800	13.0200	4.8600
850626	0.000	0.0000	0.0000	850809	4.6800	5.5800	4.8600
850627	0.000	0.0000	14.5800	850810	4.2900	4.6500	3.2400
850628	0.000	3.7200	1.6200	850811	1.5600	2.7900	1.6200
850629	0.000	0.0000	0.0000	850812	5.0700	8.3700	8.1000
850630	0.000	0.0000	0.0000	850813	2.3400	3.7200	3.2400
850701	0.000	0.0000	0.0000	850814	0.3900	0.0000	1.6200
850702	0.000	0.0000	0.0000	850815	2.3400	11.1600	9.7200
850703	0.000	0.0000	0.0000	850816	0.7800	0.9300	0.0000
850704	0.713	0.0000	1.6200	850817	0.0000	0.0000	0.0000
850705	0.000	0.0000	0.0000	850818	0.0000	0.0000	0.0000
850706	0.000	0.0000	0.0000	850819	1.1700	10.2300	6.4800
850707	0.000	1.8600	0.0000	850820	8.1900	2.7900	1.6200
850708	0.000	0.0000	0.0000	850821	10.5300	13.0200	11.3400
850709	0.000	0.0000	0.0000	850822	1.5600	0.9300	0.0000
850710	0.000	0.0000	0.0000	850823	0.0000	0.0000	1.6200
850711	0.000	0.0000	0.0000	850824	2.7300	0.9300	46.9800
850712	0.000	0.0000	0.0000	850825	0.7800	0.9300	4.8600
850713	0.000	1.8600	0.0000	850826	0.7800	0.0000	22.6800
850714	0.000	0.0000	0.0000	850827	0.0000	6.5100	1.6200
850715	0.000	0.0000	0.0000	850828	2.3400	8.3700	6.4800
850716	0.000	0.0000	1.6200	850829	1.5600	0.9300	0.0000
850717	0.000	1.8600	0.0000	850830	0.0000	0.9300	1.6200
850718	0.000	10.2300	1.6200	850831	0.0000	0.0000	0.0000
850719	0.000	16.7400	12.9600	850901	0.3900	2.7900	1.6200

	KIM	EGIL	ROLF		KIM	EGIL	ROLF
850902	0.3900	0.9300	0.0000	851016	0.0000	0.0000	0.0000
850903	22.2300	30.6900	34.0200	851017	1.1700	0.0000	0.0000
850904	7.8000	7.4400	3.2400	851018	0.0000	0.0000	0.0000
850905	1.9500	10.2300	14.5800	851019	0.0000	0.0000	0.0000
850906	9.3600	14.8800	8.1000	851020	0.0000	0.0000	0.0000
850907	0.3900	0.0000	0.0000	851021	0.0000	0.0000	0.0000
850908	0.3900	0.0000	0.0000	851022	0.0000	0.0000	0.0000
850909	0.0000	0.0000	0.0000	851023	0.0000	0.0000	0.0000
850910	0.0000	0.0000	0.0000	851024	0.0000	0.0000	0.0000
850911	0.0000	0.0000	0.0000	851025	0.0000	0.0000	0.0000
850912	0.0000	0.0000	0.0000	851026	0.0000	0.0000	0.0000
850913	0.3900	6.5100	3.2400	851027	0.0000	0.0000	0.0000
850914	0.7800	8.3700	6.4800	851028	0.0000	0.0000	0.0000
850915	1.1700	9.3000	6.4800	851029	0.0000	0.0000	0.0000
850916	0.0000	0.9300	1.6200	851030	0.0000	0.0000	0.0000
850917	0.0000	0.9300	0.0000	851031	0.0000	0.0000	1.6200
850918	0.0000	0.0000	0.0000	851101	0.0000	0.0000	0.0000
850919	2.7300	19.5300	16.2000	851102	0.0000	0.0000	0.0000
850920	1.1700	1.8600	1.6200	851103	0.0000	0.0000	0.0000
850921	1.1700	0.9300	0.0000	851104	0.0000	0.0000	0.0000
850922	0.3900	0.9300	0.0000	851105	0.0000	0.0000	0.0000
850923	0.0000	0.0000	0.0000	851106	14.4300	14.8800	4.8600
850924	0.0000	0.0000	1.6200	851107	1.1700	0.0000	0.0000
850925	0.0000	0.0000	0.0000	851108	0.3900	0.9300	1.6200
850926	0.3900	0.0000	0.0000	851109	19.5000	12.0900	43.7400
850927	0.0000	0.0000	0.0000	851110	5.4600	1.8600	3.2400
850928	0.0000	0.0000	0.0000	851111	0.3900	0.0000	0.0000
850929	0.0000	0.0000	0.0000	851112	0.3900	0.9300	1.6200
850930	0.0000	0.0000	0.0000	851113	0.0000	0.0000	0.0000
851001	0.7800	3.7200	0.0000	851114	0.3900	0.0000	0.0000
851002	0.3900	0.9300	1.6200	851115	0.0000	0.0000	0.0000
851003	5.0700	5.5800	4.8600	851116	0.0000	0.0000	0.0000
851004	7.0200	4.6500	4.8600	851117	0.0000	0.0000	0.0000
851005	0.7800	0.9300	0.0000	851118	0.0000	0.0000	0.0000
851006	3.1200	0.9300	1.6200	851119	0.0000	0.0000	0.0000
851007	2.7300	0.0000	0.0000	851120	0.0000	0.0000	1.6200
851008	0.0000	0.0000	0.0000	851121	0.0000	0.0000	0.0000
851009	0.0000	0.0000	0.0000	851122	0.0000	0.0000	0.0000
851010	0.0000	0.0000	0.0000	851123	0.0000	0.0000	0.0000
851011	4.6800	0.0000	0.0000	851124	0.0000	0.0000	0.0000
851012	0.0000	0.0000	0.0000	851125	0.0000	0.0000	0.0000
851013	2.3400	0.9300	1.6200	851126	0.0000	0.0000	0.0000
851014	0.0000	0.0000	0.0000	851127	0.0000	0.9300	0.0000
851015	0.0000	0.0000	0.0000	851128	0.0000	0.0000	0.0000
				851129	0.0000	0.0000	0.0000
				851130	0.0000	0.0000	0.0000

Table 6 B. Risdalsheia. Monthly amounts of water in and out at KIM, EGIL and ROLF catchments. Values in parentheses are estimated. Units: mm/month

	KIM			EGIL			ROLF		BIRKE- NES
	IN	OUT meas.	OUT corr. ^A	IN	OUT meas.	OUT corr. ^B	IN ^C	OUT meas.	IN ^d
April 84		(212)	382		(187)	374	-		40
May		(16)	29		(18)	36	-		70
June	0	(2)	4	28	(2)	4	-		64
July	21	(0)	0	37	(0)	0	-		45
Aug	43	(0)	0	34	14		-		23
Sept	113	(44)	79	134	148		-		198
Oct	201	(86)	155	282	241		-		283
Nov	120	(55)	99	54	120		187	270	253
Dec		(0)	0		55		160	?	242
Jan 85		(0)	0	114	0		-	?	60
Feb	114	(2)	4	+	7		-	?	18
March		(20)	36	3	20		-	45	164
April		(51)	92		74		-	262	97
May	47	(24)	43	40	47		102	61	62
June	60	(5)	9	55	39		133	27	62
July	79	(17)	30	111	64		53	45	148
Aug	126	86		128	116		283	225	301
Sept	61	51		130	116		153	99	136
Oct	53	42		60	60		75	66	88
Nov	58	49		54	50		-	57	118

^A Runoff multiplied by factor 1.8 to correct for loss out second outlet. Second dam installed at KIM on 27 July 1985.

^B Runoff multiplied by factor 2.0 to correct for loss out second outlet. Second dam installed at EGIL 1 August 1984.

^C Weekly bulk samples at Risdalsheia.

^d Daily bulk samples.

TABLE 7.

SOGNDAL 1 RUNOFF DATA. UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
 TOC MG C/L, SIO2 MG/L, F UG/L. -99=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	ALK	ILAL	LAL	TOC	SIO2
821101	6.45	36.5	2.6	30.4	24.7	-99.0	2.1	33.9	22.9	31.4	-99	-99	1.0	-99.0
830608	5.51	38.7	0.5	13.5	9.9	0.7	0.7	42.3	18.7	0.0	-99	-99	0.7	-99.0
830615	5.71	33.9	0.5	13.0	9.0	0.7	0.7	33.9	16.7	0.0	-99	-99	0.7	-99.0
830622	5.82	33.1	0.2	13.0	8.2	0.7	0.7	31.0	16.7	0.0	-99	-99	0.6	-99.0
830629	5.91	33.1	1.0	13.5	8.2	0.7	0.7	31.0	16.7	0.0	-99	-99	1.0	-99.0
830705	5.99	33.9	1.3	12.5	7.4	0.7	0.7	31.0	18.7	4.1	-99	-99	1.3	-99.0
830712	5.71	37.4	2.3	13.0	8.2	0.7	0.7	36.7	22.9	0.0	-99	-99	1.7	-99.0
830713	5.67	34.4	1.3	11.5	8.2	-99.0	0.7	33.9	22.9	0.0	-99	-99	1.2	-99.0
830719	5.90	39.1	2.3	14.0	8.2	1.4	0.7	36.7	20.8	0.0	-99	-99	2.2	-99.0
830726	5.63	37.0	1.5	13.5	8.2	0.7	0.7	36.7	20.8	2.9	-99	-99	1.0	-99.0
830802	6.14	40.0	1.8	15.5	9.0	0.7	0.7	39.5	27.1	1.6	-99	-99	1.3	-99.0
830809	6.01	40.0	1.5	15.5	8.2	0.7	0.7	36.7	22.9	0.0	-99	-99	1.1	-99.0
830816	5.81	39.6	2.0	14.5	9.0	0.7	0.7	39.5	25.0	0.0	-99	-99	1.2	-99.0
830823	6.00	36.1	2.3	14.0	9.0	0.7	0.7	33.9	18.7	12.0	-99	-99	1.8	-99.0
830830	6.05	39.6	1.3	14.5	9.0	0.7	0.7	33.9	25.0	0.0	-99	-99	1.4	-99.0
830906	5.91	36.5	1.5	15.0	9.9	0.7	0.7	31.0	18.7	7.6	-99	-99	1.3	-99.0
830913	6.09	39.6	1.3	18.0	10.7	0.7	0.7	36.7	20.8	12.0	-99	-99	1.3	-99.0
830920	5.91	37.8	1.3	17.5	9.9	0.7	0.7	36.7	20.8	2.9	-99	-99	1.4	-99.0
830927	6.09	36.1	1.3	18.5	8.2	0.7	0.7	31.0	20.8	6.4	-99	-99	0.9	-99.0
831003	6.15	35.7	1.3	18.0	9.0	0.7	0.7	33.9	20.8	14.2	10	0	1.0	-99.0
831010	6.20	33.9	1.3	18.0	9.0	0.7	0.7	28.2	16.7	15.3	10	0	1.1	-99.0
831017	6.06	36.1	1.0	19.5	8.2	0.7	0.7	28.2	25.0	8.7	10	0	0.9	-99.0
831024	6.15	34.8	1.8	19.5	7.4	0.7	7.1	28.2	18.7	10.9	10	0	0.8	-99.0
831031	5.90	32.6	1.0	17.5	8.2	0.7	0.7	31.0	20.8	9.8	10	4	0.7	-99.0
831107	5.70	40.0	1.3	16.5	10.7	0.7	0.7	36.7	20.8	13.1	10	4	5.7	-99.0
831114	5.54	63.9	1.8	16.5	15.6	0.7	1.4	76.2	22.9	0.0	20	10	0.8	-99.0
831121	5.53	67.9	4.6	19.0	16.5	1.4	1.4	84.6	25.0	5.3	21	0	0.6	-99.0
831212	5.66	49.6	2.0	20.5	14.0	0.7	1.1	56.4	25.0	15.3	10	0	3.6	-99.0
840206	6.14	160.5	19.7	41.4	23.9	21.4	3.9	174.9	31.2	58.7	15	3	2.7	-99.0
840319	5.85	730.8	35.5	91.3	165.3	5.0	26.8	733.5	152.0	23.2	0	26	4.0	-99.0
840424	5.37	218.4	17.1	59.9	65.0	17.1	20.3	253.9	108.3	4.1	17	48	2.4	-99.0
840507	5.79	167.0	24.0	40.4	30.4	8.6	3.9	197.5	52.0	24.0	16	28	3.8	-99.0
840514	5.50	128.3	14.8	31.4	21.4	4.3	3.1	141.0	54.1	7.6	10	6	3.8	-99.0
840521	6.20	96.1	21.2	5.0	3.3	15.7	3.3	87.5	8.3	32.5	10	0	2.7	-99.0
840602	5.73	71.8	9.2	15.5	11.5	2.1	0.0	79.0	14.6	15.3	10	0	1.4	-99.0
840604	5.62	44.8	3.1	13.0	9.0	0.3	0.6	45.1	16.7	0.0	10	0	0.7	-99.0
840611	5.81	48.3	2.6	14.0	9.9	3.6	0.0	39.5	20.8	2.9	10	0	0.9	-99.0
840618	5.66	48.3	1.8	13.5	9.9	0.3	0.0	39.5	27.1	0.0	10	0	0.6	-99.0
840625	5.65	79.6	2.3	14.0	9.9	0.3	0.0	67.7	22.9	2.9	10	0	0.6	-99.0

840702	5.64	55.2	2.0	15.0	9.9	0.7	0.0	45.1	20.8	0.0	10	0	0.7	-99.0
840709	5.78	53.5	2.6	15.0	10.7	0.3	0.0	39.5	22.9	2.9	10	0	1.0	-99.0
840716	5.87	53.9	3.1	16.5	11.5	0.3	0.2	50.8	27.1	0.0	10	0	0.4	-99.0
840723	5.80	66.1	4.1	17.0	13.2	0.3	0.0	62.1	22.9	1.6	10	0	1.2	-99.0
840730	5.76	53.5	2.0	16.0	12.3	1.4	0.2	50.8	27.1	0.0	10	0	1.5	-99.0
840806	5.76	54.8	3.6	17.5	11.5	0.3	0.6	53.6	22.9	1.6	10	0	0.9	-99.0
840813	5.84	60.9	3.3	19.5	12.3	0.3	0.0	56.4	27.1	1.6	10	0	0.8	-99.0
840820	5.77	53.9	2.0	19.0	13.2	3.2	0.4	50.8	33.3	7.6	10	1	1.4	-99.0
840827	5.79	55.2	3.1	19.5	14.8	1.4	0.0	53.6	27.1	8.7	10	4	2.2	-99.0
840903	5.74	52.6	2.3	17.0	11.5	0.3	0.1	48.0	25.0	1.6	10	0	1.3	-99.0
840910	5.94	50.9	2.0	20.5	12.3	0.3	0.2	45.1	25.0	10.9	10	0	0.9	-99.0
840917	5.88	52.6	2.0	23.0	10.7	0.3	0.1	48.0	31.2	10.9	10	0	2.3	-99.0
840924	6.24	53.9	2.3	22.5	10.7	0.3	0.1	50.8	29.1	9.8	10	0	1.1	-99.0
841001	5.85	54.8	2.3	24.0	12.3	0.3	0.1	50.8	29.1	10.9	10	0	1.3	-99.0
841008	5.97	50.5	2.0	24.5	12.3	0.3	0.4	45.1	27.1	8.7	10	0	0.7	-99.0
841015	5.90	47.0	1.8	22.0	10.7	0.3	0.6	42.3	22.9	1.6	11	-1	1.4	-99.0
841022	5.92	39.6	1.5	18.0	9.0	0.3	0.5	33.9	22.9	0.0	10	2	0.6	-99.0
841029	5.91	41.8	1.0	20.0	9.0	0.3	0.5	31.0	27.1	4.1	10	0	0.8	-99.0
841105	6.00	40.5	0.7	20.0	9.0	0.3	0.5	33.9	27.1	2.9	10	0	0.7	-99.0
841112	5.92	40.0	0.7	20.5	9.0	0.3	1.2	33.9	25.0	8.7	10	0	0.7	-99.0
841119	5.94	40.5	0.7	22.0	9.9	0.7	1.0	22.6	29.1	0.0	10	0	0.5	-99.0
841124	5.93	49.6	2.6	26.4	11.5	1.4	1.3	33.9	29.1	0.0	10	0	0.8	-99.0
841203	5.95	51.8	1.5	27.9	12.3	0.7	1.3	42.3	33.3	0.0	10	3	1.1	-99.0
841210	5.94	49.6	1.8	25.4	11.5	1.1	1.2	39.5	33.3	13.1	10	1	0.7	-99.0
841215	5.97	50.9	1.8	26.4	12.3	0.7	1.9	39.5	37.5	14.2	10	3	0.7	-99.0
850119	5.91	50.5	2.3	27.4	11.5	1.1	0.7	39.5	29.1	30.4	10	0	1.0	-99.0
850308	5.43	147.9	19.2	48.4	22.2	5.4	23.2	129.8	68.7	0.0	8	12	7.2	-99.0
850520	5.43	26.1	1.8	11.0	8.2	-99.0	1.5	25.4	14.6	32.5	10	10	0.8	0.7
850521	5.46	23.9	2.3	10.5	7.4	-99.0	1.2	22.6	16.7	0.0	14	9	1.2	0.6
850526	5.52	21.3	1.8	11.0	6.6	-99.0	0.6	19.7	12.5	5.3	10	5	2.9	0.7
850601	5.86	24.4	1.8	14.0	7.4	-99.0	0.2	19.7	16.7	4.1	10	0	1.9	0.8
850609	5.85	26.5	1.8	12.5	7.4	-99.0	0.0	22.6	14.6	5.3	10	0	0.8	0.8
850615	6.06	27.8	1.8	13.0	8.2	-99.0	0.0	22.6	18.7	4.1	10	0	1.2	0.9
850623	5.86	30.9	2.6	12.5	9.0	-99.0	0.2	25.4	20.8	2.9	10	0	1.3	0.7
850630	5.72	29.6	1.5	12.0	8.2	-99.0	0.3	19.7	20.8	0.0	10	2	1.6	0.7
850707	5.84	35.2	1.8	13.0	8.2	-99.0	0.1	25.4	22.9	1.6	10	1	1.5	0.9
850714	5.83	36.1	1.8	15.0	8.2	-99.0	0.5	25.4	22.9	0.0	10	0	1.6	0.9
850721	5.90	35.2	1.0	15.0	8.2	-99.0	0.0	25.4	18.7	0.0	10	0	1.2	1.0
850728	6.08	44.4	3.3	16.5	8.2	-99.0	0.0	31.0	25.0	5.3	10	1	1.9	1.0
850804	5.90	47.0	3.1	15.5	8.2	-99.0	0.3	36.7	27.1	6.4	10	0	1.8	1.0
850812	5.79	37.8	1.3	16.0	9.0	-99.0	0.4	25.4	27.1	4.1	10	0	1.2	0.9
850817	6.04	40.5	1.8	17.0	9.0	-99.0	0.2	25.4	25.0	0.0	10	0	1.4	0.9
850826	6.01	39.6	1.8	18.5	9.0	-99.0	0.2	25.4	29.1	0.0	10	0	1.2	1.1
850827	5.88	40.0	1.5	18.0	9.9	-99.0	0.1	25.4	29.1	5.3	10	0	3.4	1.1

850902	5.92	38.7	1.3	18.5	8.2	-99.0	0.5	28.2	25.0	1.6	10	0	1.1	1.4
850908	6.18	39.6	1.3	19.5	9.0	-99.0	0.2	25.4	29.1	5.3	10	0	1.3	1.5
850915	6.15	40.0	1.5	21.0	9.9	-99.0	0.5	31.0	27.1	12.0	10	0	1.2	1.4
850922	6.10	38.7	1.0	19.5	8.2	-99.0	0.2	31.0	27.1	15.3	14	0	1.2	1.5
850929	6.04	40.5	1.3	19.0	9.0	-99.0	0.2	28.2	25.0	14.2	10	0	1.3	1.4
851006	6.08	36.1	1.3	20.0	9.0	-99.0	0.7	25.4	27.1	10.9	10	0	0.9	1.5
851013	6.03	37.8	1.3	20.0	9.0	-99.0	0.5	25.4	25.0	14.2	10	0	0.8	1.6
851020	6.02	35.7	1.0	19.5	9.0	-99.0	0.4	25.4	25.0	9.8	10	0	0.7	1.7
851027	6.20	39.6	2.3	22.0	9.0	-99.0	0.6	33.9	39.6	15.3	10	0	0.9	1.6
851102	6.14	36.5	1.5	20.0	9.0	-99.0	0.3	28.2	35.4	10.9	10	1	0.8	1.6
851107	6.26	37.0	1.5	21.5	9.0	-99.0	0.4	28.2	33.3	10.9	10	0	0.7	1.8

TABLE 8.

SOGNDAL 2 RUNOFF DATA. UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
 TOC MG C/L, SIO2 MG/L, F UG/L. -99=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	ALK	ILAL	LAL	TOC	SIO2	F
821101	5.68	26.5	3.1	24.5	8.2	-99.0	3.6	28.2	20.8	5.3	-99	-99	1.9	-99.0	-99
830608	5.39	33.1	0.5	18.0	9.0	0.7	0.7	33.9	20.8	0.0	-99	-99	1.5	-99.0	-99
830615	5.28	27.0	2.8	10.5	6.6	1.4	0.7	28.2	16.7	0.0	-99	-99	1.6	-99.0	-99
830622	5.45	23.9	2.3	10.0	4.9	0.7	0.7	22.6	14.6	0.0	-99	-99	1.5	-99.0	-99
830629	5.67	41.3	1.8	25.9	10.7	0.7	0.7	39.5	22.9	9.8	-99	-99	2.1	-99.0	-99
830705	5.81	19.6	0.2	12.0	4.9	0.7	0.7	16.9	8.3	0.0	-99	-99	1.3	-99.0	-99
830712	5.81	25.7	1.8	12.5	5.8	1.4	0.7	25.4	12.5	0.0	-99	-99	2.1	-99.0	-99
830713	5.73	21.3	0.5	11.5	4.9	-99.0	0.7	19.7	18.7	0.0	-99	-99	2.0	-99.0	-99
830719	5.83	21.8	0.5	12.0	4.9	0.7	0.7	22.6	12.5	0.0	-99	-99	2.5	-99.0	-99
830726	5.81	32.2	3.1	14.0	5.8	0.7	0.7	31.0	18.7	6.4	-99	-99	1.7	-99.0	-99
830802	5.78	25.2	0.7	14.0	6.6	0.7	0.7	25.4	18.7	0.0	-99	-99	1.9	-99.0	-99
830809	5.75	27.0	0.7	16.0	6.6	0.7	0.7	25.4	12.5	0.0	-99	-99	1.6	-99.0	-99
830816	5.70	26.1	0.7	15.0	6.6	0.7	0.7	28.2	14.6	0.0	-99	-99	2.4	-99.0	-99
830823	5.74	23.5	0.7	16.0	6.6	0.7	0.7	22.6	14.6	4.1	-99	-99	1.7	-99.0	-99
830830	6.07	28.7	1.0	17.5	7.4	0.7	0.7	28.2	18.7	5.3	-99	-99	2.0	-99.0	-99
830906	5.91	28.7	0.7	17.5	7.4	0.7	0.7	25.4	18.7	18.6	-99	-99	1.8	-99.0	-99
830913	5.95	30.9	1.0	20.5	8.2	0.7	0.7	31.0	18.7	1.6	-99	-99	1.7	-99.0	-99
830920	5.96	28.3	0.7	21.0	7.4	0.7	1.4	25.4	18.7	1.6	-99	-99	1.9	-99.0	-99
830927	5.96	26.1	1.3	20.0	6.6	0.7	1.4	25.4	22.9	8.7	-99	-99	1.7	-99.0	-99
831003	6.13	29.1	0.7	24.0	8.2	0.7	1.4	31.0	22.9	13.1	10	8	1.6	-99.0	-99
831010	6.03	26.1	1.0	20.0	7.4	1.4	1.4	25.4	12.5	13.1	10	16	1.5	-99.0	-99
831017	5.97	27.0	0.7	21.5	6.6	0.7	2.1	25.4	20.8	14.2	10	8	1.3	-99.0	-99
831024	6.03	27.4	1.3	21.0	6.6	0.7	0.7	25.4	14.6	18.6	10	4	1.2	-99.0	-99
831031	5.65	27.0	0.5	17.0	7.4	0.7	1.4	31.0	14.6	4.1	10	11	0.9	-99.0	-99
831107	5.56	176.2	7.9	16.5	45.2	2.9	4.3	225.7	35.4	8.7	10	14	7.5	-99.0	-99
831114	5.57	57.4	3.8	19.0	14.0	1.4	1.4	67.7	22.9	4.1	31	15	1.7	-99.0	-99
831121	5.59	58.3	4.1	23.5	14.8	2.1	2.1	70.5	22.9	15.3	34	0	1.1	-99.0	-99
831212	5.61	150.1	29.4	41.4	21.4	12.9	8.2	160.8	31.2	51.4	53	25	22.3	-99.0	-99
840206	5.91	334.9	32.2	45.4	65.0	22.1	10.4	400.6	66.6	52.5	17	22	2.7	-99.0	-99
840319	5.71	582.9	32.7	69.9	123.4	3.6	21.1	564.2	118.7	19.6	0	25	3.3	-99.0	-99
840424	4.09	158.3	13.6	18.5	32.9	34.3	23.9	163.6	179.1	0.0	10	287	4.2	-99.0	-99
840507	4.36	169.6	8.2	21.5	37.0	9.6	14.0	186.2	91.6	0.0	10	77	2.5	-99.0	-99
840514	4.81	81.8	4.9	18.5	18.1	4.3	4.5	90.3	47.9	0.0	10	48	2.3	-99.0	-99
840521	5.09	47.8	1.5	11.5	9.9	1.4	3.5	50.8	20.8	0.0	10	16	0.7	-99.0	-99
840602	5.44	33.9	1.0	12.5	7.4	0.3	1.1	33.9	14.6	0.0	10	16	0.7	-99.0	-99
840604	5.33	20.4	0.7	9.5	4.1	0.3	1.7	16.9	14.6	0.0	10	0	0.8	-99.0	-99
840611	5.65	29.1	1.0	15.5	6.6	0.3	0.0	22.6	18.7	0.0	10	0	1.2	-99.0	-99
840618	5.61	30.5	0.7	15.5	6.6	0.7	0.0	25.4	27.1	0.0	12	5	1.2	-99.0	-99
840625	5.53	31.3	0.7	15.0	6.6	0.3	0.2	25.4	20.8	1.6	10	3	1.1	-99.0	-99

	840702	5.52	33.9	0.7	17.5	7.4	0.7	0.0	28.2	20.8	0.0	10	3	1.3	-99.0	-99
	840709	5.56	37.0	0.7	18.0	9.0	0.3	0.0	28.2	22.9	0.0	10	0	1.7	-99.0	-99
	840716	5.55	38.7	1.5	19.0	9.0	0.7	0.7	36.7	31.2	0.0	10	5	1.4	-99.0	-99
	840723	5.54	48.3	4.3	19.5	9.9	0.3	0.0	39.5	25.0	0.0	10	4	2.0	-99.0	-99
	840730	5.09	39.6	1.3	19.5	10.7	0.3	0.3	36.7	41.6	0.0	10	15	1.6	-99.0	-99
	840806	5.45	38.3	1.5	21.0	9.9	0.3	1.2	33.9	25.0	0.0	12	12	1.6	-99.0	-99
	840813	5.53	42.6	1.8	23.5	9.9	0.3	0.7	39.5	31.2	0.0	11	8	1.5	-99.0	-99
	840820	5.54	42.2	1.5	22.5	9.9	1.1	0.9	39.5	37.5	0.0	10	1	1.8	-99.0	-99
	840827	5.62	43.5	1.8	23.0	10.7	1.4	0.8	42.3	29.1	1.6	10	5	1.6	-99.0	-99
0900	840828	4.96	46.1	0.2	28.9	12.3	0.3	1.0	42.3	47.9	0.0	10	89	2.2	-99.0	-99
1000	840828	5.07	44.8	2.0	28.9	12.3	0.3	1.2	42.3	54.1	0.0	11	83	1.4	-99.0	-99
1010	840828	5.17	40.9	1.8	25.9	12.3	0.7	1.1	36.7	45.8	0.0	14	74	1.4	-99.0	-99
1100	840828	4.97	47.8	2.3	29.4	13.2	1.1	1.1	45.1	58.3	0.0	10	74	1.8	-99.0	-99
	840901	5.22	41.8	1.5	25.9	12.3	0.3	1.1	39.5	43.7	0.0	14	51	2.1	-99.0	-99
	840902	5.23	50.0	2.3	26.9	14.0	0.3	1.1	48.0	43.7	0.0	13	54	2.2	-99.0	-99
	840903	5.30	43.5	1.8	27.9	12.3	0.3	1.0	39.5	41.6	0.0	13	35	1.5	-99.0	-99
	840904	5.46	44.4	2.0	28.9	12.3	0.7	1.3	42.3	47.9	0.0	14	26	1.6	-99.0	-99
	840905	5.29	43.9	1.8	29.4	13.2	0.7	1.4	39.5	43.7	0.0	11	37	1.4	-99.0	-99
	840906	5.41	44.4	1.5	29.4	12.3	3.2	1.5	39.5	43.7	0.0	12	28	1.2	-99.0	-99
	840907	5.48	44.8	1.5	30.4	13.2	0.7	1.4	42.3	45.8	0.0	11	19	1.4	-99.0	-99
	840909	5.36	40.9	1.5	27.9	11.5	1.1	1.7	33.9	43.7	0.0	11	29	2.4	-99.0	-99
	840910	5.80	42.6	1.5	29.9	12.3	0.7	1.7	36.7	43.7	7.6	11	6	2.6	-99.0	-99
1100	840912	5.57	43.1	2.3	28.4	9.9	1.4	2.5	39.5	43.7	0.0	14	23	2.0	-99.0	-99
1530	840912	5.45	41.8	1.5	28.9	9.9	0.7	1.9	39.5	43.7	0.0	11	26	1.8	-99.0	10
1600	840912	5.25	41.8	1.3	28.9	9.9	0.7	1.9	36.7	47.9	0.0	10	18	2.0	-99.0	10
1700	840912	4.90	42.2	1.3	28.9	9.9	1.4	1.8	36.7	54.1	0.0	10	52	1.4	-99.0	10
1745	840912	4.84	42.2	1.5	29.9	9.9	0.7	1.9	36.7	62.5	0.0	10	70	1.4	-99.0	10
1830	840912	4.90	42.2	1.3	29.4	9.9	0.7	1.9	36.7	54.1	0.0	10	52	1.2	-99.0	10
1915	840912	4.75	42.2	1.3	29.9	9.9	0.7	2.0	36.7	62.5	0.0	10	52	1.9	-99.0	10
2000	840912	4.74	42.2	1.3	29.9	9.9	0.7	1.9	39.5	62.5	0.0	12	82	2.0	-99.0	10
	840913	4.98	45.7	3.1	32.9	11.5	0.7	1.9	39.5	66.6	0.0	26	109	1.5	-99.0	-99
	840914	4.98	44.4	1.8	33.4	11.5	1.1	3.1	36.7	64.5	0.0	44	81	1.3	-99.0	-99
	840915	5.16	44.8	1.5	36.4	12.3	0.7	2.3	42.3	68.7	0.0	13	61	1.3	-99.0	-99
	840916	5.05	45.2	2.0	35.4	12.3	1.1	2.3	42.3	72.9	0.0	14	114	2.5	-99.0	-99
	840917	5.14	45.2	1.8	35.4	12.3	1.1	2.4	42.3	72.9	0.0	20	93	2.6	-99.0	-99
	840918	5.13	44.8	1.5	34.9	12.3	2.1	2.7	42.3	64.5	0.0	10	100	2.9	-99.0	-99
	840919	5.15	46.5	2.0	34.9	12.3	1.4	3.2	42.3	66.6	0.0	10	70	1.3	-99.0	-99
	840920	5.19	45.7	1.8	35.4	12.3	1.4	3.1	42.3	62.5	0.0	10	96	1.4	-99.0	-99
	840921	5.17	44.8	1.5	35.4	11.5	0.7	3.1	39.5	68.7	0.0	10	99	1.2	-99.0	-99
	840922	5.21	44.8	1.5	35.4	12.3	1.1	3.1	39.5	66.6	0.0	10	100	2.2	-99.0	-99
	840923	5.22	47.0	1.8	35.9	12.3	0.7	3.5	42.3	68.7	0.0	10	85	1.4	-99.0	-99
	840924	5.25	45.2	1.5	35.4	11.5	1.1	3.9	42.3	66.6	0.0	10	55	1.4	-99.0	-99
	840925	5.19	45.2	1.8	37.4	12.3	1.4	4.0	39.5	62.5	0.0	10	66	1.5	-99.0	-99
0645	840926	5.20	45.7	1.5	37.9	12.3	1.1	4.1	39.5	64.5	0.0	10	67	1.9	-99.0	-99

0830	840926	5.20	45.7	1.8	36.9	12.3	1.4	4.1	39.5	66.6	0.0	10	71	1.7	-99.0	-99
0900	840926	5.19	45.7	1.8	37.4	12.3	1.4	4.2	39.5	68.7	0.0	10	67	1.2	-99.0	-99
1000	840926	4.93	44.4	1.5	37.4	12.3	1.1	4.1	39.5	75.0	0.0	10	99	1.6	-99.0	-99
1100	840926	4.76	45.2	1.8	37.9	12.5	1.1	4.3	39.5	81.2	0.0	10	132	1.8	-99.0	-99
	840927	4.80	49.2	2.3	42.4	14.0	1.4	4.1	42.3	85.4	0.0	10	170	1.6	-99.0	-99
	840928	4.79	48.3	2.0	40.9	14.8	1.1	4.2	45.1	93.7	0.0	10	161	1.6	-99.0	-99
	840929	4.86	46.5	1.8	41.9	14.0	1.1	4.1	39.5	91.6	0.0	10	193	1.2	-99.0	-99
	840930	4.89	47.0	1.8	41.9	14.8	1.4	4.1	39.5	91.6	0.0	40	146	1.2	-99.0	-99
	841001	4.94	47.4	1.8	41.9	14.8	1.4	4.4	39.5	89.5	0.0	10	189	1.3	-99.0	-99
0630	841002	4.88	47.0	1.8	42.4	14.0	1.4	4.6	39.5	83.3	0.0	10	155	1.2	-99.0	-99
0900	841002	4.90	47.0	2.0	42.4	14.0	1.4	5.0	39.5	83.3	0.0	10	189	1.4	-99.0	-99
1000	841002	4.84	47.0	2.0	41.9	14.0	1.1	4.6	39.5	87.4	0.0	10	207	1.0	-99.0	-99
1030	841002	4.90	48.3	1.8	41.9	14.8	1.4	4.6	42.3	91.6	0.0	10	200	1.6	-99.0	-99
1100	841002	4.78	47.4	1.8	41.9	14.8	1.4	4.6	42.3	89.5	0.0	10	206	1.2	-99.0	-99
1200	841002	4.79	47.4	2.0	42.4	14.8	2.1	4.5	39.5	91.6	0.0	10	193	1.2	-99.0	-99
1300	841002	4.70	47.4	1.8	42.9	14.8	1.4	4.4	39.5	99.9	0.0	10	251	1.2	-99.0	-99
	841003	4.73	48.7	1.8	45.9	17.3	1.4	4.5	39.5	116.6	0.0	10	304	1.8	-99.0	-99
	841004	4.78	50.5	2.3	46.9	18.1	1.1	4.6	45.1	110.3	0.0	10	276	1.2	-99.0	-99
	841005	4.79	48.3	1.8	46.9	17.3	0.7	4.8	42.3	110.3	0.0	10	276	1.0	-99.0	-99
	841006	4.82	47.4	1.8	46.9	17.3	1.4	5.0	39.5	114.5	0.0	10	284	0.9	-99.0	-99
	841007	4.85	48.3	1.5	46.9	17.3	0.7	4.9	39.5	112.4	0.0	11	271	0.8	-99.0	-99
	841008	4.90	47.4	1.8	45.4	17.3	0.7	5.1	39.5	106.2	0.0	10	276	0.8	-99.0	-99
	841009	4.99	47.4	2.8	42.9	16.5	1.1	4.8	39.5	95.8	0.0	11	225	1.2	-99.0	-99
	841010	5.01	48.7	2.0	40.4	16.5	0.7	4.4	45.1	87.4	0.0	11	219	0.7	-99.0	-99
	841015	5.12	26.1	0.7	19.0	9.9	0.3	1.9	22.6	37.5	0.0	13	83	0.4	-99.0	-99
	841022	5.31	32.2	0.7	23.5	11.5	0.3	1.6	25.4	39.6	0.0	15	48	0.7	-99.0	-99
	841029	5.37	45.7	3.6	26.4	12.3	1.4	3.5	36.7	43.7	0.0	12	51	1.1	-99.0	-99
	841105	5.50	33.9	0.2	25.0	9.9	0.3	2.4	28.2	43.7	0.0	13	29	0.9	-99.0	-99
	841112	5.43	36.5	0.5	27.9	10.7	0.3	3.7	31.0	39.6	0.0	15	31	0.9	-99.0	-99
	841119	5.42	40.9	2.3	30.4	13.2	1.4	5.3	25.4	47.9	0.0	48	-35	0.7	-99.0	-99
	841124	5.29	86.6	5.1	61.9	25.5	1.8	11.9	76.2	95.8	0.0	17	80	2.6	-99.0	-99
	841203	5.55	93.5	8.2	58.4	23.9	3.6	8.7	84.6	81.2	0.0	26	29	2.7	-99.0	-99
	841210	5.12	77.4	7.4	28.4	18.1	9.6	21.4	76.2	56.2	0.0	11	100	1.3	-99.0	-99
	841215	5.23	63.1	2.0	45.4	18.1	0.7	17.5	56.4	62.5	8.7	15	100	0.7	-99.0	-99
	850515	5.01	54.4	5.9	19.0	15.6	-99.0	3.2	53.6	39.6	0.0	16	30	1.7	1.0	-99
	850516	4.98	48.7	3.8	18.5	15.6	-99.0	3.2	48.0	41.6	0.0	20	34	1.3	1.0	-99
	850520	5.33	23.9	2.0	17.5	9.9	-99.0	1.5	22.6	27.1	0.0	14	19	1.5	0.8	-99
	850521	5.33	22.6	2.6	15.5	9.0	-99.0	0.8	19.7	18.7	0.0	20	18	2.2	0.9	-99
	850525	5.53	34.8	7.2	10.0	5.8	-99.0	1.5	33.9	12.5	10.9	14	7	2.8	0.4	-99
	850526	5.41	20.0	4.6	9.0	4.9	-99.0	1.3	19.7	14.6	4.1	14	14	2.4	0.4	-99
	850527	5.46	21.3	3.6	14.0	6.6	-99.0	2.5	22.6	25.0	4.1	10	15	1.8	0.8	-99
	850528	5.43	20.0	2.3	12.0	5.8	-99.0	2.4	16.9	18.7	5.3	10	8	1.4	0.7	-99
	850529	5.61	19.6	2.3	14.0	6.6	-99.0	1.6	16.9	14.6	5.3	10	5	1.5	0.8	-99
	850530	5.57	20.0	1.8	13.5	6.6	-99.0	1.2	16.9	14.6	4.1	10	10	1.0	0.8	-99

	850531	5.69	19.6	1.3	14.5	7.4	-99.0	1.1	16.9	20.8	0.0	10	6	1.1	0.9	-99
	850601	5.73	23.1	1.5	17.0	8.2	-99.0	0.7	19.7	20.8	0.0	10	5	1.5	1.2	-99
	850602	5.70	19.1	1.5	16.0	7.4	-99.0	0.9	14.1	14.6	1.6	10	8	1.7	1.0	-99
	850603	5.76	23.5	1.8	17.0	8.2	-99.0	0.6	19.7	22.9	9.8	10	3	1.4	1.2	-99
	850604	5.81	25.7	2.3	17.5	8.2	-99.0	0.3	22.6	22.9	6.4	10	3	1.5	1.2	-99
	850605	5.79	25.2	1.8	17.5	9.0	-99.0	0.3	19.7	18.7	1.6	10	11	1.3	1.3	-99
	850606	5.78	24.8	1.5	17.5	9.0	-99.0	0.3	16.9	22.9	1.6	10	6	2.3	1.3	-99
	850609	5.62	27.4	1.0	19.0	9.0	-99.0	0.3	22.6	27.1	2.9	10	2	1.6	1.3	-99
	850610	5.69	28.7	1.5	18.0	9.0	-99.0	0.2	22.6	27.1	0.0	10	2	1.6	1.4	-99
1330	850611	5.71	28.3	1.0	18.5	9.9	-99.0	0.2	22.6	20.8	6.4	10	6	2.2	1.3	10
1510	850611	5.16	27.8	1.0	18.0	9.0	-99.0	0.1	22.6	37.5	0.0	11	13	1.8	1.3	10
1600	850611	4.78	28.3	1.3	19.0	9.9	-99.0	0.1	22.6	47.9	0.0	10	21	1.8	1.3	10
1710	850611	4.57	28.7	1.3	20.5	9.9	-99.0	0.2	22.6	60.4	0.0	10	41	1.8	1.3	10
1810	850611	4.54	29.1	1.3	22.5	11.5	-99.0	0.0	22.6	68.7	0.0	13	35	2.1	1.3	10
1910	850611	4.49	29.1	1.3	23.5	11.5	-99.0	0.4	22.6	81.2	0.0	13	51	1.9	1.3	10
	850613	5.12	32.2	1.5	24.5	12.3	-99.0	0.2	25.4	52.0	0.0	11	35	1.7	1.5	-99
	850614	5.18	34.8	2.3	25.9	12.3	-99.0	0.1	28.2	54.1	0.0	13	9	1.6	1.5	-99
	850615	5.27	32.6	2.3	26.4	13.2	-99.0	0.2	25.4	54.1	0.0	11	24	1.6	1.4	-99
	850616	5.32	39.6	2.8	26.9	13.2	-99.0	0.2	33.9	52.0	0.0	14	21	1.7	1.4	-99
	850617	5.33	37.4	2.8	27.9	13.2	-99.0	0.2	36.7	52.0	0.0	11	5	1.8	1.5	-99
	850618	5.29	32.6	1.3	27.4	13.2	-99.0	0.1	25.4	56.2	0.0	10	23	1.6	1.5	-99
	850619	5.27	35.2	2.0	27.4	13.2	-99.0	0.1	25.4	54.1	0.0	13	15	1.7	1.4	-99
	850620	5.30	36.5	1.8	28.4	13.2	-99.0	0.3	28.2	60.4	0.0	10	8	1.7	1.4	-99
	850621	5.35	36.1	1.8	28.4	14.0	-99.0	0.1	28.2	52.0	0.0	13	19	2.0	1.4	-99
	850623	5.25	37.8	2.0	25.9	13.2	-99.0	0.2	31.0	54.1	0.0	11	25	1.9	1.4	-99
	850630	5.26	35.2	1.0	24.5	12.3	-99.0	0.5	28.2	52.0	0.0	12	27	1.6	1.3	-99
	850707	5.36	38.3	1.0	25.0	12.3	-99.0	0.0	28.2	47.9	0.0	12	32	1.6	1.6	-99
	850714	5.39	39.6	0.7	25.9	12.3	-99.0	0.1	28.2	47.9	0.0	12	16	1.4	1.5	-99
	850721	5.53	39.6	0.7	25.0	10.7	-99.0	0.0	28.2	35.4	0.0	17	8	1.5	1.6	-99
	850728	5.79	41.3	1.0	29.4	9.9	-99.0	0.0	28.2	41.6	0.0	13	4	1.8	1.7	-99
	850804	5.58	42.6	1.0	24.5	9.9	-99.0	0.0	31.0	47.9	0.0	11	7	1.7	1.7	-99
	850812	5.59	42.6	2.0	25.4	11.5	-99.0	0.0	31.0	45.8	0.0	10	5	1.7	1.8	-99
	850817	5.69	40.0	1.3	25.9	10.7	-99.0	0.4	28.2	41.6	0.0	10	7	1.6	1.7	-99
	850820	5.36	39.6	1.5	24.0	10.7	-99.0	0.5	28.2	37.5	0.0	10	8	1.8	1.7	-99
1015	850821	5.28	39.6	1.3	24.0	10.7	-99.0	0.5	28.2	45.8	0.0	13	5	1.9	1.7	-99
1115	850821	5.31	39.6	1.5	24.5	11.5	-99.0	0.5	28.2	50.0	0.0	10	10	1.7	1.7	-99
1215	850821	5.14	40.0	1.5	24.0	10.7	-99.0	0.5	28.2	52.0	0.0	10	11	1.7	1.7	-99
1315	850821	5.34	39.6	1.5	25.0	10.7	-99.0	0.5	28.2	54.1	0.0	10	8	1.8	1.7	-99
1415	850821	5.04	39.6	1.3	25.0	11.5	-99.0	0.4	28.2	58.3	0.0	10	8	1.8	1.8	-99
1630	850821	5.02	40.5	1.5	29.4	13.2	-99.0	0.7	28.2	70.8	0.0	10	30	2.0	1.7	-99
1730	850821	4.23	40.5	1.3	28.9	13.2	-99.0	0.3	28.2	81.2	0.0	10	50	1.8	1.7	-99
1830	850821	4.60	40.0	1.3	29.4	13.2	-99.0	0.4	25.4	85.4	0.0	13	45	1.9	1.7	-99
1930	850821	4.50	40.0	1.3	31.4	14.0	-99.0	0.4	25.4	91.6	0.0	13	59	1.8	1.7	-99
2100	850821	4.53	40.0	1.3	30.9	14.0	-99.0	0.4	25.4	89.5	0.0	14	22	1.7	1.7	-99

1030	850822	4.68	40.0	1.5	34.4	15.6	-99.0	0.6	25.4	87.4	0.0	15	89	1.8	1.7	-99
1900	850822	4.84	38.7	1.3	33.4	14.8	-99.0	0.3	28.2	85.4	0.0	11	115	2.2	1.9	-99
	850824	4.95	39.6	1.8	34.9	15.6	-99.0	0.4	25.4	75.0	0.0	11	80	2.7	1.9	10
	850825	5.07	39.1	1.5	34.4	14.8	-99.0	0.7	28.2	75.0	0.0	13	72	2.7	1.9	-99
	850826	5.20	39.6	1.5	35.4	14.8	-99.0	0.2	25.4	68.7	0.0	11	74	1.3	1.9	-99
	850827	5.21	40.5	1.3	34.4	14.8	-99.0	0.3	25.4	75.0	0.0	10	44	1.5	2.0	-99
1040	850828	5.14	38.3	1.5	32.4	14.0	-99.0	0.5	25.4	68.7	0.0	11	44	1.4	2.0	-99
1200	850828	5.02	38.3	1.3	32.4	14.8	-99.0	0.5	25.4	68.7	0.0	10	75	1.3	2.0	-99
1300	850828	5.09	37.8	1.3	32.4	14.8	-99.0	0.3	25.4	64.5	0.0	10	61	1.3	2.0	-99
1530	850828	4.88	38.7	1.5	34.4	15.6	-99.0	0.3	25.4	77.0	0.0	11	91	1.3	2.0	11
1630	850828	4.74	37.8	1.3	33.9	14.8	-99.0	0.3	25.4	85.4	0.0	10	123	1.4	2.0	11
2030	850828	4.80	38.3	1.3	37.9	17.3	-99.0	0.2	25.4	79.1	0.0	13	103	1.4	2.0	11
	850829	4.91	39.1	1.3	34.9	16.5	-99.0	0.3	25.4	81.2	0.0	13	125	1.3	2.1	12
	850902	5.25	36.1	0.7	33.9	14.0	-99.0	0.9	25.4	68.7	0.0	11	50	1.1	2.1	-99
	850908	5.30	38.7	0.7	33.9	13.2	-99.0	0.3	25.4	68.7	0.0	11	32	1.2	2.2	-99
	850915	5.32	37.4	1.0	31.9	14.0	-99.0	0.9	31.0	60.4	0.0	10	37	1.1	2.1	-99
	850922	5.56	34.8	0.7	29.9	13.2	-99.0	0.3	28.2	50.0	1.6	18	13	1.1	2.1	-99
	850925	5.64	32.2	1.0	26.9	11.5	-99.0	0.2	28.2	41.6	0.0	14	7	0.8	2.0	-99
	850926	5.72	34.8	1.0	29.4	12.3	-99.0	0.2	31.0	43.7	0.0	11	14	0.9	2.2	-99
	850927	5.72	33.9	0.7	28.9	11.5	-99.0	0.2	28.2	41.6	0.0	10	9	0.9	2.1	-99
	850928	5.78	37.8	1.0	26.4	12.3	-99.0	0.4	28.2	37.5	6.4	14	5	1.1	2.0	-99
	850929	5.72	36.5	1.0	26.9	12.3	-99.0	0.4	28.2	39.6	5.3	14	3	1.2	2.1	-99
	850930	5.79	37.0	1.0	25.9	12.3	-99.0	0.2	28.2	35.4	5.3	11	1	0.9	2.0	-99
0630	851001	5.56	31.3	0.7	25.9	11.5	-99.0	1.4	25.4	37.5	1.6	10	5	0.9	1.9	-99
0745	851001	5.03	31.3	0.7	25.4	11.5	-99.0	1.4	25.4	50.0	0.0	10	13	0.9	2.0	-99
0800	851001	4.80	36.1	2.8	50.4	31.3	-99.0	0.5	31.0	106.2	0.0	23	59	1.5	1.8	-99
0845	851001	4.83	31.3	1.0	26.4	11.5	-99.0	1.1	25.4	58.3	0.0	10	29	0.8	2.0	-99
0945	851001	4.84	31.3	0.7	27.4	12.3	-99.0	1.2	25.4	62.5	0.0	11	39	0.9	2.0	-99
1045	851001	4.71	31.8	1.3	31.4	14.8	-99.0	1.1	22.6	75.0	0.0	14	47	1.0	2.0	-99
1145	851001	4.75	32.2	1.0	32.4	15.6	-99.0	1.1	22.6	75.0	0.0	17	50	1.1	2.0	-99
	851003	5.09	32.6	1.3	31.9	14.8	-99.0	1.1	25.4	64.5	0.0	15	58	1.2	2.0	-99
	851004	5.89	43.5	3.3	46.4	18.1	-99.0	2.6	31.0	62.5	24.0	39	13	1.3	2.7	-99
	851005	5.17	32.2	1.3	31.9	14.8	-99.0	1.0	22.6	64.5	0.0	20	41	1.0	2.0	-99
	851006	5.36	33.9	1.3	30.4	14.8	-99.0	1.7	25.4	60.4	0.0	12	23	1.3	2.0	-99
	851007	5.29	36.5	2.0	29.9	14.8	-99.0	1.1	31.0	58.3	0.0	18	32	1.0	2.0	-99
	851008	5.18	34.8	0.7	27.9	14.8	-99.0	0.6	25.4	47.9	2.9	20	32	0.9	2.0	-99
	851009	5.32	33.9	1.0	28.9	14.0	-99.0	0.9	25.4	50.0	0.0	14	16	0.9	2.0	-99
	851010	5.41	33.9	0.7	29.4	14.0	-99.0	0.8	25.4	47.9	0.0	11	25	0.9	2.1	-99
	851011	5.42	33.9	1.0	28.9	14.0	-99.0	0.8	25.4	47.9	0.0	11	25	0.8	2.1	-99
	851012	5.69	38.3	3.8	29.4	14.0	-99.0	0.9	31.0	47.9	5.3	10	8	1.2	2.1	-99
	851013	5.54	31.8	0.7	27.4	13.2	-99.0	0.6	22.6	43.7	0.0	10	12	1.0	2.0	-99
	851014	5.67	32.2	0.7	27.4	11.5	-99.0	0.5	22.6	39.6	0.0	10	8	0.9	2.0	-99
	851020	5.63	33.1	1.0	26.4	11.5	-99.0	0.6	25.4	39.6	0.0	10	6	0.8	2.1	-99
	851027	5.83	34.8	1.0	28.9	12.3	-99.0	0.7	31.0	56.2	0.0	10	2	0.7	2.4	-99
	851102	5.75	33.5	0.5	27.9	11.5	-99.0	1.5	28.2	56.2	0.0	10	8	0.8	2.4	-99
	851107	5.75	38.7	2.0	28.4	13.2	-99.0	1.4	36.7	56.2	1.6	10	3	2.9	2.4	-99

TABLE 9.

SOGNDAL 3 RUNOFF DATA. UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
 TOC MG C/L, SIO2 MG/L, F UG/L. -99=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	ALK	ILAL	LAL	TOC	SIO2	F
830608	5.58	40.5	0.5	14.0	9.9	0.7	0.7	42.3	18.7	0.0	-99	-99	0.5	-99.0	-99
830615	5.55	33.9	0.7	12.0	8.2	0.7	1.4	33.9	18.7	0.0	-99	-99	0.4	-99.0	-99
830622	5.71	25.2	0.2	8.5	5.8	0.7	0.7	22.6	14.6	0.0	-99	-99	1.0	-99.0	-99
830629	5.78	28.3	1.0	10.5	6.6	0.7	0.7	25.4	12.5	0.0	-99	-99	0.8	-99.0	-99
830705	5.95	31.8	1.3	11.5	6.6	0.7	0.7	25.4	14.6	6.4	-99	-99	0.9	-99.0	-99
830712	5.87	35.7	1.0	12.5	7.4	0.7	0.7	25.4	20.8	0.0	-99	-99	1.3	-99.0	-99
830713	5.68	36.1	0.7	9.0	5.8	-99.0	0.7	25.4	25.0	0.0	-99	-99	1.5	-99.0	-99
830719	5.77	46.1	3.6	12.5	7.4	0.7	0.7	36.7	20.8	0.0	-99	-99	1.5	-99.0	-99
830726	5.75	45.7	2.6	15.0	8.2	0.7	0.7	39.5	25.0	8.7	-99	-99	1.4	-99.0	-99
830802	5.91	43.5	0.5	14.0	8.2	0.7	0.7	36.7	18.7	6.4	-99	-99	1.5	-99.0	-99
830809	5.85	44.4	1.5	17.5	8.2	0.7	0.7	36.7	18.7	5.3	-99	-99	1.2	-99.0	-99
830816	5.85	42.6	0.7	15.0	8.2	0.7	0.7	36.7	22.9	4.1	-99	-99	1.2	-99.0	-99
830823	5.97	33.9	1.3	15.0	7.4	0.7	0.7	28.2	14.6	9.8	-99	-99	1.5	-99.0	-99
830830	6.02	41.3	1.0	15.0	8.2	0.7	0.7	33.9	22.9	0.0	-99	-99	1.3	-99.0	-99
830906	6.03	42.2	0.7	17.0	9.0	0.7	0.7	31.0	20.8	12.0	-99	-99	1.3	-99.0	-99
830913	6.11	41.3	1.0	19.0	9.0	0.7	0.7	33.9	18.7	5.3	-99	-99	1.3	-99.0	-99
830920	6.10	37.8	1.3	18.0	9.0	0.7	0.7	28.2	25.0	4.1	-99	-99	1.1	-99.0	-99
830927	6.04	26.1	1.3	16.0	7.4	0.7	0.7	25.4	22.9	2.9	-99	-99	1.4	-99.0	-99
831003	6.16	34.4	0.5	18.5	9.0	0.7	0.7	31.0	22.9	7.6	10	0	0.7	-99.0	-99
831010	6.16	31.3	1.0	16.5	8.2	0.7	0.7	25.4	18.7	17.5	10	0	0.9	-99.0	-99
831017	6.02	30.9	0.7	24.5	9.0	0.7	0.7	25.4	18.7	7.6	10	0	0.9	-99.0	-99
831024	6.02	33.9	1.3	18.5	8.2	0.7	2.1	31.0	20.8	8.6	10	0	0.8	-99.0	-99
831031	5.62	29.6	0.7	15.5	9.0	0.7	0.7	31.0	18.7	0.0	11	10	0.8	-99.0	-99
831107	5.62	75.3	1.5	22.0	19.7	0.7	0.7	90.3	27.1	8.7	10	2	1.3	-99.0	-99
831114	5.64	51.3	0.5	19.0	13.2	0.7	0.7	62.1	22.9	0.0	14	10	0.7	-99.0	-99
831121	5.70	43.1	0.7	23.0	13.2	0.7	0.7	53.6	22.9	12.0	12	0	0.6	-99.0	-99
831212	5.60	43.5	1.5	25.4	14.0	0.7	2.1	53.6	27.1	13.1	10	0	0.8	-99.0	-99
840123	5.73	59.6	2.0	30.9	14.8	0.7	1.8	67.7	22.9	24.0	0	11	0.6	-99.0	-99
840206	5.96	56.1	2.0	29.9	14.8	0.7	1.4	62.1	20.8	19.7	10	5	1.0	-99.0	-99
840424	5.19	140.9	8.7	40.9	39.5	14.3	12.9	163.6	68.7	0.0	10	58	1.9	-99.0	-99
840507	5.25	181.0	5.9	36.9	40.3	0.3	3.1	1214.4	33.3	0.0	10	37	0.7	-99.0	-99
840514	5.29	147.5	2.8	31.4	35.4	0.3	2.8	180.5	22.9	0.0	10	40	0.7	-99.0	-99
840521	5.43	91.3	1.8	20.0	20.6	0.3	1.6	101.6	20.8	0.0	10	11	0.5	-99.0	-99
840602	5.50	48.3	1.3	13.0	10.7	0.3	0.6	50.8	16.7	0.0	10	1	0.4	-99.0	-99
840604	5.39	41.8	2.6	12.0	9.0	0.3	1.6	33.9	22.9	0.0	10	4	0.7	-99.0	-99
840611	5.65	46.5	1.5	12.5	9.0	1.1	0.0	36.7	18.7	0.0	10	0	0.6	-99.0	-99
840618	5.74	43.9	1.3	12.0	9.0	0.3	0.0	33.9	25.0	1.6	10	0	0.6	-99.0	-99
840625	5.70	43.1	1.5	13.0	9.0	0.3	0.0	31.0	18.7	2.9	10	0	0.5	-99.0	-99

840702	5.65	50.9	1.3	14.5	9.9	0.3	0.0	36.7	22.9	0.0	10	0	0.9	-99.0	-99
840709	5.68	56.1	1.5	14.5	10.7	0.3	0.0	39.5	22.9	2.9	10	0	1.1	-99.0	-99
840716	5.75	54.4	1.3	16.0	10.7	0.3	0.0	45.1	27.1	12.0	10	0	1.5	-99.0	-99
840723	5.63	59.6	1.3	15.5	10.7	0.3	0.0	53.6	22.9	0.0	10	0	1.3	-99.0	-99
840730	5.72	57.4	1.0	16.0	11.5	0.3	0.2	50.8	27.1	0.0	10	0	1.6	-99.0	-99
840806	6.00	47.0	1.0	19.0	10.7	0.3	0.1	39.5	18.7	8.7	10	0	0.7	-99.0	-99
840813	5.98	53.5	1.3	19.5	9.9	0.3	0.0	45.1	25.0	1.6	10	0	1.1	-99.0	-99
840820	5.91	57.9	1.3	19.5	11.5	0.3	0.4	50.8	29.1	7.6	10	0	0.9	-99.0	-99
840827	5.87	60.9	1.3	22.0	13.2	0.3	0.4	59.2	20.8	10.9	10	0	0.7	-99.0	-99
840903	5.96	45.7	2.0	18.0	10.7	1.1	0.0	42.3	22.9	8.7	11	2	1.6	-99.0	-99
840910	6.12	51.3	2.0	21.5	10.7	0.3	0.2	45.1	25.0	13.1	10	0	1.9	-99.0	-99
840912	6.08	49.2	1.8	20.5	9.0	0.3	0.1	42.3	22.9	13.1	10	0	1.8	-99.0	10
840917	6.03	52.2	1.5	22.5	9.0	0.3	0.2	48.0	29.1	13.1	10	4	2.2	-99.0	-99
840924	6.12	53.1	1.5	22.0	9.0	0.3	0.4	45.1	25.0	12.0	10	0	1.4	-99.0	-99
840926	6.10	53.5	1.5	22.5	9.0	0.3	0.2	48.0	18.7	10.9	10	0	1.9	-99.0	-99
841001	6.11	53.9	1.8	24.5	10.7	0.3	0.3	48.0	29.1	14.2	10	0	0.8	-99.0	-99
841008	6.12	50.9	2.0	24.0	10.7	0.3	0.6	45.1	27.1	12.0	10	0	0.7	-99.0	-99
841015	5.67	37.8	1.3	15.0	9.0	0.3	4.4	33.9	16.7	0.0	13	3	1.0	-99.0	-99
841022	5.75	30.9	0.7	14.5	8.2	0.3	0.2	22.6	20.8	0.0	10	5	0.5	-99.0	-99
841029	5.83	39.6	0.2	18.0	9.9	0.3	0.5	25.4	20.8	5.3	10	0	0.7	-99.0	-99
841105	5.84	34.4	0.2	16.5	8.2	0.3	0.1	25.4	25.0	0.0	10	2	0.7	-99.0	-99
841112	5.85	37.0	0.2	18.0	9.0	0.3	0.3	25.4	29.1	2.9	10	0	0.5	-99.0	-99
841119	5.92	41.3	0.2	22.0	9.9	0.7	1.4	19.7	33.3	0.0	12	-2	0.5	-99.0	-99
841124	5.85	73.1	3.1	36.9	16.5	2.1	2.1	56.4	47.9	7.6	10	4	2.3	-99.0	-99
841203	5.76	55.2	3.8	29.9	13.2	2.1	1.8	42.3	33.3	6.4	10	3	6.1	-99.0	-99
841210	5.83	55.7	3.6	25.9	16.5	2.5	5.0	42.3	37.5	15.3	10	30	1.6	-99.0	-99
841215	5.81	47.4	1.5	25.9	13.2	0.7	3.8	36.7	35.4	14.2	10	1	0.7	-99.0	-99
850119	5.90	51.8	1.8	30.9	14.0	0.7	0.9	39.5	27.1	31.4	10	4	0.6	-99.0	-99
850520	5.59	26.1	2.0	13.0	9.0	-99.0	1.2	22.6	18.7	2.9	10	5	1.0	0.6	-99
850521	5.56	25.7	2.3	12.5	8.2	-99.0	0.7	22.6	16.7	1.6	10	8	0.9	0.7	-99
850526	5.70	23.1	2.0	12.0	8.2	-99.0	1.1	19.7	20.8	5.3	10	3	0.8	0.7	-99
850601	5.82	30.5	2.3	14.0	8.2	-99.0	0.0	22.6	16.7	2.9	10	0	1.1	1.2	-99
850609	5.82	35.2	1.5	12.0	8.2	-99.0	0.0	28.2	20.8	2.9	10	0	0.9	1.4	-99
850615	5.80	37.4	1.3	13.0	9.0	-99.0	0.1	28.2	27.1	2.9	10	0	1.2	1.4	-99
850623	5.76	41.8	0.7	12.0	9.0	-99.0	0.1	28.2	25.0	0.0	10	2	1.5	1.1	-99
850630	5.75	40.5	0.7	11.5	8.2	-99.0	0.1	25.4	27.1	0.0	10	1	1.5	1.1	-99
850707	5.87	42.6	0.5	14.0	9.0	-99.0	0.2	25.4	27.1	2.9	10	1	1.3	1.3	-99
850714	5.98	43.1	0.5	16.0	8.2	-99.0	0.0	25.4	25.0	5.3	10	0	1.1	1.3	-99
850721	6.00	33.9	0.5	16.0	7.4	-99.0	0.0	19.7	16.7	4.1	10	1	1.0	1.5	-99
850728	6.07	45.2	0.5	17.0	7.4	-99.0	0.6	25.4	22.9	6.4	10	0	1.4	1.5	-99
850804	6.00	47.8	0.7	15.5	7.4	-99.0	0.0	31.0	25.0	7.6	10	0	1.4	1.4	-99
850812	5.86	44.8	0.5	16.0	8.2	-99.0	0.4	28.2	27.1	5.3	10	0	1.3	1.2	-99
850817	6.12	44.8	1.0	19.5	9.0	-99.0	0.3	28.2	25.0	4.1	10	0	1.3	1.6	-99

850826	6.00	40.0	1.0	18.0	8.2	-99.0	0.0	25.4	22.9	0.0	10	0	1.1	1.7	-99
850827	6.07	41.3	1.0	18.0	9.0	-99.0	0.0	25.4	20.8	7.6	10	0	1.2	1.7	-99
850908	6.20	40.0	0.7	17.5	7.4	-99.0	0.4	22.6	35.4	5.3	10	0	1.1	1.9	-99
850915	6.23	38.7	1.3	20.0	9.0	-99.0	0.8	28.2	22.9	12.0	10	0	1.1	1.9	-99
850922	6.19	36.1	0.7	19.0	8.2	-99.0	0.0	28.2	22.9	14.2	10	0	0.7	1.8	-99
850929	5.95	36.5	1.0	17.0	8.2	-99.0	0.1	25.4	22.9	8.7	10	0	0.7	1.8	-99
851006	5.91	34.4	1.3	18.5	9.0	-99.0	1.0	28.2	25.0	6.4	10	0	0.8	1.7	-99
851013	5.96	30.9	0.7	16.5	8.2	-99.0	0.2	22.6	22.9	6.4	10	0	0.6	1.6	-99
851020	5.90	33.9	1.0	17.0	8.2	-99.0	0.3	25.4	22.9	7.6	10	0	0.6	1.8	-99
851027	6.12	37.0	1.0	20.0	9.0	-99.0	0.5	31.0	37.5	8.7	10	0	0.6	2.0	-99
851102	6.02	35.2	0.7	19.0	9.0	-99.0	1.1	28.2	37.5	10.9	10	0	0.7	2.0	-99
851107	6.06	38.3	0.5	22.0	9.9	-99.0	1.2	31.0	35.4	13.1	10	0	0.8	2.0	-99

TABLE 10.

SOGNDAL 4 RUNOFF DATA. UNITS: MAJOR IONS UEQ/L, AL SPECIES UG AL/L,
 TOC MG C/L, SIO2 MG/L, F UG/L. -99=MISSING DATA.

DATE	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4	ALK	ILAL	LAL	TOC	SIO2	F
830608	5.57	25.2	0.2	13.0	6.6	0.7	0.7	25.4	12.5	0.0	-99	-99	0.9	-99.0	-99
830615	5.78	31.8	0.7	21.0	8.2	0.7	2.1	28.2	18.7	1.6	-99	-99	0.7	-99.0	-99
830622	5.65	23.1	0.5	16.0	6.6	0.7	0.7	19.7	12.5	6.4	-99	-99	1.5	-99.0	-99
830629	5.70	34.8	1.0	20.5	6.6	1.4	0.7	36.7	16.7	0.0	-99	-99	3.6	-99.0	-99
830705	5.71	35.2	1.8	19.5	4.9	1.4	0.7	31.0	12.5	1.6	-99	-99	3.4	-99.0	-99
830726	5.70	76.1	7.2	30.9	9.9	0.7	0.7	76.2	35.4	10.9	-99	-99	4.9	-99.0	-99
830802	5.63	47.8	2.0	27.4	7.4	0.7	0.7	50.8	22.9	0.0	-99	-99	3.5	-99.0	-99
830809	5.87	54.4	4.6	22.5	7.4	1.4	0.7	53.6	16.7	10.9	-99	-99	3.2	-99.0	-99
830816	5.89	42.2	2.8	19.5	6.6	0.7	0.7	48.0	18.7	7.6	-99	-99	2.5	-99.0	-99
830823	6.07	37.4	2.8	21.0	7.4	0.7	0.7	33.9	10.4	17.5	-99	-99	1.9	-99.0	-99
830830	6.16	53.1	4.1	21.5	7.4	0.7	0.7	56.4	10.4	12.0	-99	-99	2.1	-99.0	-99
830906	5.97	42.2	2.6	24.5	7.4	0.7	0.7	39.5	18.7	9.8	-99	-99	2.0	-99.0	-99
830913	5.97	45.7	2.3	22.5	7.4	0.7	0.7	45.1	18.7	7.6	-99	-99	1.7	-99.0	-99
830920	6.03	33.9	1.3	20.0	6.6	0.7	0.7	33.9	14.6	12.0	-99	-99	2.4	-99.0	-99
830927	6.00	29.6	2.3	22.0	7.4	0.7	0.7	31.0	18.7	10.9	-99	-99	2.1	-99.0	-99
831003	6.10	29.1	2.0	23.0	5.8	0.7	0.7	28.2	14.6	19.7	10	6	1.9	-99.0	-99
831010	6.02	34.4	4.6	22.0	7.4	0.7	0.7	36.7	16.7	16.4	10	10	3.1	-99.0	-99
831017	5.88	32.2	2.3	27.4	7.4	0.7	0.7	33.9	14.6	17.5	10	13	1.1	-99.0	-99
831024	5.74	35.7	4.3	21.0	9.9	0.7	0.7	36.7	10.4	26.1	29	53	5.0	-99.0	-99
831031	5.65	26.5	0.5	18.0	6.6	0.7	0.7	28.2	18.7	2.9	19	13	1.1	-99.0	-99
831107	5.57	51.8	4.3	23.5	12.3	0.7	0.7	59.2	22.9	14.2	21	13	6.5	-99.0	-99
831114	5.75	38.3	2.0	23.5	8.2	0.7	0.7	36.7	22.9	10.9	19	13	1.6	-99.0	-99
831121	5.89	43.9	4.6	25.9	8.2	3.6	1.4	45.1	18.7	25.0	8	13	2.0	-99.0	-99
840514	5.36	75.3	2.8	27.4	16.5	0.7	2.2	84.6	29.1	4.1	10	16	5.9	-99.0	-99
840521	5.46	46.1	1.3	18.5	9.0	0.3	1.4	45.1	18.7	0.0	10	18	1.5	-99.0	-99
840602	5.54	27.8	1.5	10.0	4.9	0.3	0.8	25.4	8.3	1.6	12	2	1.1	-99.0	-99
840604	5.31	35.2	2.0	19.5	9.0	0.3	0.4	28.2	35.4	0.0	19	23	2.5	-99.0	-99
840611	5.63	59.2	4.1	22.5	9.9	2.9	0.0	48.0	31.2	4.1	16	3	2.8	-99.0	-99
840618	5.67	77.4	3.6	28.4	12.3	0.3	0.4	64.9	35.4	4.1	14	8	2.8	-99.0	-99
840625	5.60	47.0	0.7	20.5	8.2	0.3	0.2	36.7	25.0	2.9	15	11	1.8	-99.0	-99
840702	5.76	67.4	2.0	24.0	9.9	0.7	0.0	53.6	22.9	4.1	12	4	2.1	-99.0	-99
840716	5.63	61.8	5.4	32.4	13.2	1.8	0.4	48.0	50.0	12.0	15	16	4.9	-99.0	-99
840730	5.69	65.2	3.6	29.9	14.8	0.3	8.3	53.6	39.6	0.0	14	14	3.3	-99.0	-99
840806	5.73	44.8	1.5	24.5	8.2	0.7	0.4	42.3	20.8	4.1	22	11	1.9	-99.0	-99
840813	5.75	64.4	2.8	27.4	9.0	0.7	0.5	59.2	27.1	1.6	14	6	2.3	-99.0	-99
840820	5.69	86.1	4.9	32.9	19.7	6.8	1.3	95.9	37.5	13.1	57	21	4.3	-99.0	-99
1000 840829	5.44	50.0	4.1	37.9	14.8	2.9	1.6	48.0	50.0	2.9	46	31	2.5	-99.0	-99
1015 840829	5.51	43.1	1.3	27.9	11.5	0.3	0.7	42.3	35.4	1.6	35	13	1.7	-99.0	-99

1030	840829	4.48	103.5	8.4	170.7	58.4	3.274.9	73.3229.0	0.0	22	678	2.7	-99.0	-99
1400	840829	4.50	86.6	7.9	189.6	62.5	0.757.1	64.9249.8	0.0	28	684	3.0	-99.0	-99
	840901	5.56	48.3	1.5	25.4	9.9	0.7	0.9 48.0 31.2	0.0	31	16	2.6	-99.0	-99
	840902	5.67	50.0	1.0	25.4	9.9	0.3	0.9 45.1 29.1	1.6	28	16	2.8	-99.0	-99
	840903	5.57	50.5	1.0	26.4	9.9	0.3	1.1 48.0 29.1	0.0	31	17	3.0	-99.0	-99
	840904	5.86	51.3	0.7	25.4	9.0	0.3	0.9 45.1 27.1	8.7	19	6	2.4	-99.0	-99
	840905	5.69	53.5	1.3	26.4	9.9	0.3	1.6 36.7 27.1	1.6	18	14	1.6	-99.0	-99
	840906	5.78	56.1	1.5	27.4	10.7	0.3	1.9 50.8 31.2	4.1	15	9	1.7	-99.0	-99
	840907	5.81	57.9	1.3	28.9	10.7	0.7	2.6 48.0 35.4	7.6	17	10	1.6	-99.0	-99
	840909	5.63	38.7	0.7	25.4	9.0	0.3	0.5 33.9 27.1	6.4	43	16	4.0	-99.0	-99
	840910	5.67	43.9	0.7	24.5	9.0	0.7	0.1 39.5 22.9	6.4	32	13	2.5	-99.0	-99
0900	840912	5.94	48.7	0.7	26.4	8.2	0.3	0.8 39.5 20.8	17.5	15	7	1.5	-99.0	10
0915	840912	5.09	56.5	0.7	55.4	18.1	0.329.6	45.1 60.4	0.0	33	50	2.7	-99.0	10
1040	840912	4.68	68.3	1.0	136.7	44.4	0.396.0	42.3158.2	0.0	46	282	2.3	-99.0	10
1100	840912	4.59	62.2	2.0	137.2	47.7	0.305.7	45.1172.8	0.0	29	447	2.2	-99.0	-99
1120	840912	4.62	69.6	1.5	164.7	54.3	0.324.9	42.3208.2	0.0	54	368	1.5	-99.0	18
1200	840912	4.57	67.0	1.8	164.7	55.9	0.324.9	45.1208.2	0.0	47	519	1.7	-99.0	24
1230	840912	4.56	65.7	2.6	154.2	56.8	0.317.8	45.1208.2	0.0	36	430	4.2	-99.0	24
1300	840912	4.57	63.1	2.6	141.2	50.2	0.307.1	45.1179.1	0.0	29	479	3.0	-99.0	22
	840913	5.72	43.9	1.0	29.4	9.9	0.3	0.0 39.5 37.5	4.1	15	13	1.3	-99.0	-99
	840914	5.81	46.5	1.5	27.4	9.0	0.3	0.5 42.3 33.3	7.6	13	10	1.3	-99.0	-99
	840915	5.66	49.6	1.3	27.4	8.2	0.3	1.0 45.1 31.2	5.3	18	12	2.5	-99.0	-99
	840916	5.70	48.3	1.0	26.4	7.4	0.3	1.0 42.3 33.3	6.4	20	13	2.6	-99.0	-99
	840917	5.79	50.0	1.0	29.4	8.2	0.3	1.2 42.3 33.3	4.1	14	8	2.6	-99.0	-99
	840918	5.22	70.9	3.6	50.9	26.3	0.7	1.0 62.1 91.6	0.0	40	81	3.6	-99.0	-99
	840919	5.91	57.4	1.8	32.4	9.9	0.3	4.9 48.0 39.6	4.1	14	19	3.4	-99.0	-99
	840920	5.28	63.9	3.1	42.4	22.2	0.3	0.5 56.4 72.9	0.0	37	87	3.3	-99.0	-99
	840921	5.69	48.7	0.7	28.9	8.2	0.3	1.4 39.5 37.5	4.1	14	19	1.2	-99.0	-99
	840922	5.64	54.8	1.3	33.4	9.9	0.3	2.8 42.3 37.5	9.8	11	8	1.5	-99.0	-99
	840923	5.74	52.2	1.8	32.4	10.7	0.3	0.3 42.3 43.7	9.8	12	14	2.0	-99.0	-99
	840924	5.64	53.5	1.0	32.9	9.9	0.3	2.4 45.1 35.4	12.0	11	10	1.3	-99.0	-99
	840925	5.75	58.3	1.5	33.9	9.9	0.3	0.2 48.0 37.5	15.3	12	4	1.8	-99.0	-99
0830	840926	5.81	68.3	4.9	33.9	12.3	0.3	0.2 62.1 43.7	16.4	10	2	2.1	-99.0	-99
1330	840926	5.80	62.2	2.0	34.4	10.7	0.3	0.2 53.6 45.8	10.9	11	8	2.2	-99.0	-99
1530	840926	4.99	66.1	2.8	38.9	12.3	0.321.8	56.4 50.0	0.0	12	70	1.7	-99.0	-99
1630	840926	4.52	87.9	1.8	157.2	46.9	0.396.3	53.6137.4	0.0	14	522	2.6	-99.0	-99
1700	840926	4.64	82.6	2.6	209.1	65.8	0.360.6	50.8166.6	0.0	17	475	1.8	-99.0	-99
1800	840926	4.74	73.9	3.6	157.2	53.5	0.388.2	53.6187.4	0.0	14	342	1.5	-99.0	-99
	840927	5.32	48.3	0.7	41.9	12.3	0.3	2.8 42.3 60.4	0.0	17	34	1.4	-99.0	-99
	840928	5.56	47.4	1.0	32.9	9.9	0.3	0.8 45.1 41.6	5.3	13	16	1.8	-99.0	-99
	840929	5.49	49.6	2.8	29.9	9.0	0.7	0.8 45.1 45.8	5.3	14	14	2.4	-99.0	-99
	840930	5.56	53.1	2.3	36.4	12.3	0.3	0.2 45.1 52.0	4.1	12	10	1.1	-99.0	-99
	841001	5.69	49.6	1.0	31.4	9.9	0.3	0.6 42.3 39.6	4.1	13	11	1.8	-99.0	-99
1000	841002	5.77	53.1	2.0	32.9	10.7	0.3	0.8 50.8 39.6	7.6	23	1	1.5	-99.0	-99

1430	841002	5.51	49.6	1.3	31.9	10.7	0.3	0.8	45.1	39.6	7.6	12	4	1.8	-99.0	-99	
1530	841002	4.22	67.4	4.3	186.1	51.8	0.732	0.0	48.0	174.9	0.0	14	570	2.8	-99.0	-99	
1630	841002	4.39	69.6	4.9	181.1	55.1	0.310	0.6	48.0	185.3	0.0	18	706	2.4	-99.0	-99	
1730	841002	4.34	65.2	6.1	166.2	53.5	0.389	0.2	48.0	249.8	0.0	15	1065	3.4	-99.0	-99	
1830	841002	4.41	62.6	9.5	152.7	55.9	0.324	0.9	56.4	291.5	0.0	20	880	5.0	-99.0	-99	
1900	841002	4.50	61.8	10.2	136.2	54.3	0.390	0.0	56.4	270.7	0.0	21	715	3.4	-99.0	-99	
1930	841002	4.77	60.5	9.7	120.3	46.9	0.356	0.4	59.2	181.1	0.0	26	374	3.3	-99.0	-99	
	841003	5.24	47.4	1.3	40.4	14.8	0.3	1.4	42.3	68.7	0.0	19	32	2.4	-99.0	-99	
	841004	5.43	44.4	0.5	29.9	11.5	0.3	0.7	39.5	43.7	0.0	14	20	0.9	-99.0	-99	
	841005	5.38	43.9	0.5	29.4	10.7	0.3	1.4	39.5	41.6	0.0	14	20	0.9	-99.0	-99	
	841006	5.48	44.8	0.7	27.9	9.9	0.7	0.7	36.7	43.7	0.0	16	17	0.8	-99.0	-99	
	841008	5.52	40.0	0.5	28.4	9.9	0.3	0.5	33.9	35.0	0.0	20	19	1.1	-99.0	-99	
	841009	5.61	47.4	1.5	28.4	13.2	0.3	0.7	45.1	31.2	10.9	19	11	2.6	-99.0	-99	
	841010	5.56	43.9	1.3	25.0	11.5	0.3	0.5	50.8	25.0	8.7	19	11	2.1	-99.0	-99	
	841015	5.39	33.1	1.0	19.5	9.9	0.3	0.5	31.0	22.9	0.0	23	21	1.6	-99.0	-99	
	841022	5.56	32.6	0.2	19.5	8.2	0.3	0.2	25.4	22.9	0.0	19	16	0.8	-99.0	-99	
	841029	5.74	36.1	0.7	21.5	8.2	0.7	1.1	22.6	20.8	5.3	12	11	0.9	-99.0	-99	
	841105	5.73	33.1	0.2	21.0	7.4	0.3	0.0	28.2	22.9	0.0	15	10	0.9	-99.0	-99	
	841112	5.73	37.8	0.2	27.9	9.9	0.3	0.2	31.0	29.1	9.8	15	6	0.8	-99.0	-99	
	841119	5.90	49.6	2.0	36.9	14.0	2.1	1.6	28.2	31.2	4.1	26	-13	1.6	-99.0	-99	
	841203	5.30	60.5	5.6	30.4	17.3	8.9	11.2	67.7	41.6	0.0	34	41	4.4	-99.0	-99	
	841210	5.56	47.4	3.1	34.4	10.7	2.1	3.9	36.7	25.0	26.1	11	7	1.6	-99.0	-99	
	850520	5.41	21.3	1.8	12.5	7.4	-99.0	0.7	19.7	18.7	0.0	16	9	1.9	0.7	-99	
	850521	5.40	23.1	2.6	13.0	7.4	-99.0	1.0	22.6	16.7	0.0	20	15	1.5	0.8	-99	
	850525	5.38	29.6	8.2	15.5	9.0	-99.0	0.6	25.4	20.8	10.9	39	14	3.5	1.4	-99	
	850526	5.50	24.8	3.1	17.0	8.2	-99.0	1.4	19.7	18.7	8.7	17	8	3.3	1.2	-99	
	850527	5.32	35.2	6.9	18.5	10.7	-99.0	1.4	25.4	33.3	7.6	61	3	4.5	1.7	-99	
	850528	5.55	27.4	4.6	20.5	9.0	-99.0	2.1	22.6	16.7	13.1	19	9	4.5	1.2	-99	
	850529	5.54	35.2	2.8	22.0	9.9	-99.0	0.7	28.2	22.9	12.0	24	12	3.3	1.8	-99	
	850530	5.64	33.9	2.8	21.5	9.0	-99.0	1.8	28.2	27.1	10.9	19	6	2.9	1.8	-99	
	850531	5.75	47.0	3.3	25.4	10.7	-99.0	1.9	33.9	31.2	14.2	17	9	3.3	3.6	-99	
	850601	5.71	48.7	3.6	28.9	11.5	-99.0	0.8	36.7	31.2	10.9	14	9	2.6	3.8	-99	
	850602	5.71	46.5	4.1	21.0	10.7	-99.0	0.0	33.9	27.1	4.1	19	9	3.6	3.4	-99	
	850603	5.67	47.0	4.9	25.0	12.3	-99.0	0.0	33.9	27.1	22.9	34	23	2.6	3.6	-99	
	850604	5.76	50.9	3.8	28.9	11.5	-99.0	1.1	39.5	35.4	13.1	14	7	3.8	4.1	-99	
	850605	5.80	53.5	6.4	34.9	14.0	-99.0	0.2	42.3	37.5	17.5	14	14	4.0	4.2	-99	
	850606	5.74	50.9	5.6	24.5	12.3	-99.0	0.0	33.9	25.0	20.7	32	25	3.0	4.0	-99	
	850609	5.85	51.3	4.3	21.5	10.7	-99.0	0.2	42.3	29.1	9.8	18	3	2.1	4.0	-99	
	850610	5.79	60.5	8.7	23.5	11.5	-99.0	0.0	53.6	29.1	17.5	18	4	2.6	3.9	-99	
0800	850612	5.69	47.0	1.5	29.4	12.3	-99.0	0.0	33.9	27.1	25.0	21	8	1.5	3.7	10	
1000	850612	5.75	48.7	8.2	26.9	12.3	-99.0	1.6	39.5	27.1	15.3	19	6	1.5	3.8	10	
1100	850612	5.29	50.0	1.5	51.4	22.2	-99.0	0.26	4	31.0	66.6	0.0	21	59	1.9	2.7	10
1200	850612	5.17	50.9	1.5	61.9	27.1	-99.0	0.36	4	31.0	79.1	0.0	28	90	1.8	2.7	13

1300	850612	5.10	51.3	1.5	63.9	28.0	-99.0	35.7	31.0	87.4	0.0	26	82	1.8	2.7	14
1400	850612	5.14	50.5	1.5	59.4	26.3	-99.0	28.2	31.0	87.4	0.0	29	50	1.8	2.7	13
	850613	5.63	46.1	2.8	27.9	16.5	-99.0	0.2	36.7	35.4	7.6	24	16	1.5	2.8	-99
	850614	5.70	44.8	2.0	28.9	12.3	-99.0	0.0	33.9	37.5	4.1	21	6	1.9	2.9	-99
	850615	5.52	49.6	2.6	30.4	15.6	-99.0	0.1	36.7	52.0	12.0	34	13	2.3	3.5	-99
	850616	5.66	43.9	1.3	25.4	11.5	-99.0	0.0	33.9	43.7	2.9	14	1	2.0	3.1	-99
	850617	5.53	50.5	1.8	30.4	14.8	-99.0	0.0	36.7	43.7	12.0	34	9	2.2	3.7	-99
	850618	5.73	48.7	1.8	26.9	12.3	-99.0	0.0	36.7	41.6	4.1	17	5	2.7	3.7	-99
	850619	5.77	52.6	2.3	27.9	14.0	-99.0	0.0	39.5	37.5	14.2	23	8	2.2	4.1	-99
	850623	5.73	52.2	2.3	29.4	14.0	-99.0	0.3	39.5	31.2	16.4	30	6	2.7	4.4	-99
	850630	5.57	45.2	1.5	26.4	12.3	-99.0	0.2	28.2	39.6	6.4	71	27	3.2	3.4	-99
	850707	5.69	43.9	1.0	28.9	13.2	-99.0	0.0	33.9	25.0	18.6	41	45	2.1	4.0	-99
	850714	5.98	37.0	0.5	25.4	8.2	-99.0	0.0	28.2	18.7	8.7	23	6	1.5	2.6	-99
	850721	5.58	27.0	0.5	20.0	8.2	-99.0	0.0	16.9	10.4	4.1	52	11	4.1	2.3	-99
	850728	5.86	43.9	1.3	25.0	9.0	-99.0	0.0	36.7	12.5	15.3	62	9	3.6	3.5	-99
	850804	5.94	53.9	2.6	27.4	10.7	-99.0	0.0	50.8	2.1	27.2	140	11	6.7	3.7	-99
	850812	6.14	49.2	1.5	26.4	9.9	-99.0	0.0	42.3	14.6	22.9	19	2	2.8	3.6	-99
	850817	5.85	47.0	2.6	23.0	9.9	-99.0	0.0	39.5	12.5	12.0	95	0	4.6	3.3	-99
0935	850822	5.54	36.5	1.3	24.0	10.7	-99.0	0.2	31.0	16.7	10.9	86	11	5.5	2.6	-99
1100	850822	5.17	37.4	1.3	25.4	11.5	-99.0	4.6	31.0	35.4	0.0	71	41	5.8	2.6	-99
1200	850822	4.81	37.8	1.5	30.4	13.2	-99.0	13.9	31.0	54.1	0.0	63	66	5.9	2.6	-99
1305	850822	4.53	38.3	1.3	39.9	17.3	-99.0	25.3	28.2	79.1	0.0	57	100	5.4	2.5	-99
1400	850822	4.40	38.7	1.3	45.4	19.7	-99.0	31.1	28.2	91.6	0.0	52	126	5.2	2.4	-99
1510	850822	4.33	39.1	1.5	49.4	20.6	-99.0	37.1	28.2	106.2	0.0	53	146	5.3	2.4	-99
2130	850822	4.58	37.4	1.5	57.9	24.7	-99.0	26.1	25.4	106.2	0.0	61	113	4.9	2.1	-99
0800	850823	4.75	38.3	1.3	54.4	23.0	-99.0	16.1	28.2	93.7	0.0	64	107	4.6	2.2	-99
0930	850823	4.45	37.4	1.3	57.4	24.7	-99.0	29.6	25.4	114.5	0.0	56	135	4.5	2.1	-99
1100	850823	4.17	37.8	1.8	63.4	28.0	-99.0	48.2	25.4	147.8	0.0	48	173	4.4	2.0	-99
	850824	5.44	33.9	0.7	25.4	10.7	-99.0	0.3	25.4	35.4	5.3	21	9	2.0	2.4	-99
	850825	5.60	37.0	1.3	25.9	9.9	-99.0	0.0	25.4	31.2	4.1	19	11	5.5	2.4	-99
	850826	5.41	40.0	1.3	42.4	18.9	-99.0	0.2	25.4	68.7	0.0	66	44	3.6	2.7	-99
1430	850827	5.41	42.2	1.5	40.4	18.1	-99.0	0.1	28.2	60.4	0.0	61	38	4.1	2.7	-99
1600	850827	4.45	42.2	1.3	39.4	17.3	-99.0	8.1	28.2	66.6	0.0	47	69	4.1	2.6	12
1730	850827	4.36	43.9	1.3	49.4	21.4	-99.0	28.9	25.4	95.8	0.0	42	129	4.0	2.6	15
1830	850827	4.28	43.9	1.0	54.4	23.0	-99.0	36.1	28.2	108.3	0.0	45	196	3.6	2.6	16
1940	850827	4.97	45.2	1.3	60.4	26.3	-99.0	44.6	28.2	129.1	0.0	39	185	3.7	2.6	18
	850828	4.70	36.1	1.5	57.4	26.3	-99.0	20.0	22.6	95.8	0.0	45	118	3.4	2.0	18
	850829	4.99	41.8	1.3	52.4	23.9	-99.0	6.1	22.6	89.5	0.0	56	84	3.4	2.3	18
	850902	5.91	33.1	0.5	24.5	9.0	-99.0	0.2	22.6	41.6	1.6	18	10	1.1	2.4	-99
	850908	5.59	39.1	1.0	28.9	12.3	-99.0	0.2	31.0	35.4	1.6	122	16	4.3	2.9	-99
	850915	5.60	34.8	1.5	25.4	12.3	-99.0	1.1	31.0	29.1	4.1	131	17	4.8	2.6	-99
	850922	5.58	33.1	1.3	24.5	10.7	-99.0	0.0	33.9	25.0	9.8	102	9	3.7	2.1	-99
	850925	5.63	29.6	1.3	22.0	9.9	-99.0	0.0	33.9	18.7	2.9	77	22	3.4	1.8	-99
	850927	5.64	32.2	1.5	25.9	10.7	-99.0	0.2	33.9	18.7	9.8	85	18	3.7	2.3	-99

	850928	5.67	37.8	2.0	25.0	11.5	-99.0	0.4	33.9	18.7	16.4	92	1	3.2	2.2	-99
	850929	5.60	33.9	1.8	21.5	10.7	-99.0	0.2	33.9	18.7	7.6	95	4	4.0	2.2	-99
	850930	6.02	36.1	0.7	26.4	9.9	-99.0	0.4	28.2	22.9	19.7	17	2	0.9	2.5	-99
0800	851001	5.40	21.8	1.8	18.5	9.0	-99.0	1.3	19.7	20.8	1.6	51	20	3.1	1.5	-99
1000	851001	5.50	27.4	1.3	21.5	9.9	-99.0	0.2	19.7	29.1	2.9	30	20	1.4	1.7	-99
1335	851001	4.27	33.1	2.3	52.4	22.2	-99.0	35.3	25.4	143.7	0.0	28	330	1.5	1.8	-99
1435	851001	4.23	33.1	3.1	51.9	23.9	-99.0	36.4	22.6	135.3	0.0	25	259	1.5	1.7	-99
1535	851001	4.09	33.9	3.1	58.4	27.1	-99.0	63.2	25.4	162.4	0.0	20	348	1.5	1.7	-99
1635	851001	4.09	33.9	3.8	59.9	29.6	-99.0	92.1	25.4	135.3	0.0	18	382	1.3	1.7	-99
1735	851001	4.52	33.5	3.3	52.9	27.1	-99.0	56.0	22.6	89.5	0.0	26	246	1.3	1.8	-99
	851003	4.60	34.8	3.1	71.9	30.4	-99.0	47.5	28.2	122.8	0.0	18	422	2.4	2.0	-99
	851004	5.89	38.3	2.0	35.4	14.0	-99.0	4.8	25.4	39.6	22.9	20	16	1.2	2.7	-99
	851005	4.90	34.4	2.0	52.9	22.2	-99.0	17.8	25.4	93.7	0.0	54	138	2.7	2.1	-99
	851006	5.66	31.8	0.7	24.0	10.7	-99.0	0.9	28.2	35.4	4.1	15	15	1.2	2.0	-99
	851007	5.07	37.0	1.3	37.9	18.1	-99.0	4.0	33.9	62.5	0.0	114	-63	2.3	2.0	-99
	851008	5.70	33.5	0.7	26.4	11.5	-99.0	0.2	28.2	29.1	7.6	18	3	2.0	2.4	-99
	851009	5.81	32.2	0.5	25.4	10.7	-99.0	0.4	25.4	31.2	6.4	18	3	1.2	2.2	-99
	851010	5.86	32.6	0.7	26.4	11.5	-99.0	0.5	25.4	29.1	10.9	18	26	1.3	2.3	-99
	851011	5.80	30.5	0.7	24.5	9.9	-99.0	0.6	22.6	29.1	8.7	18	8	1.2	2.1	-99
	851012	5.83	27.4	0.7	22.0	9.0	-99.0	0.3	19.7	25.0	7.6	10	10	0.9	1.8	-99
	851013	5.30	27.4	0.7	23.0	10.7	-99.0	0.5	25.4	29.1	0.0	45	19	2.8	1.6	-99
	851014	5.89	29.6	0.2	23.0	9.0	-99.0	0.3	19.7	27.1	8.7	10	14	1.0	2.2	-99
	851020	5.81	30.5	0.2	21.5	8.2	-99.0	0.5	25.4	22.9	5.3	10	6	1.1	2.5	-99
	851027	5.95	30.9	0.7	24.5	9.0	-99.0	0.9	22.6	22.9	12.0	14	4	2.3	2.5	-99
	851102	5.79	26.5	0.5	22.0	9.0	-99.0	1.9	22.6	39.6	6.4	30	17	5.7	2.3	-99

TABLE 11.

SOGNDAL PRECIPITATION. WEEKLY BULK SAMPLES. UNITS: UEQ/L

DATE ON	DATE OFF	MM	PH	NA	K	CA	MG	NH4N	NO3N	CL	SO4
830620-830627		4.0	4.70	52.2	27.4	29.9	16.5	58.5	35.7	62.1	93.1
830701-830704		4.8	4.50	26.1	10.2	5.0	4.1	11.4	9.3	28.2	40.0
830704-830711		5.1	6.35	104.4	63.4	10.0	5.8	110.0	5.7	115.7	20.6
830711-830718		5.1	4.70	4.3	4.3	5.0	0.8	7.9	3.6	5.6	23.7
830718-830725		13.7	4.50	13.0	0.7	5.0	0.8	7.9	7.1	16.9	30.0
830725-830801		11.4	4.60	8.7	3.1	5.0	0.8	11.4	8.6	8.5	30.0
830801-830808		35.4	4.70	8.7	4.6	5.0	0.8	7.1	0.7	8.5	18.1
830815-830822		5.6	4.60	26.1	15.1	5.0	2.5	9.3	5.0	28.2	19.6
830822-830829		6.1	3.60	30.5	24.0	10.0	3.3	2.9	55.7	48.0	188.6
830829-830901		4.8	4.50	8.7	1.0	5.0	0.8	2.9	0.7	8.5	30.6
830901-830905		9.9	4.10	8.7	3.3	10.0	1.6	2.9	12.9	8.5	50.0
830905-830912		4.1	5.95	65.2	36.8	10.0	6.6	2.9	0.7	70.5	22.5
830912-830919		19.1	4.95	4.3	1.0	5.0	0.8	2.9	0.7	2.8	6.2
830919-830926		51.3	4.80	8.7	1.3	5.0	0.8	2.9	0.7	5.6	10.6
830926-831001		16.9	5.00	26.1	2.3	5.0	4.1	2.9	0.7	28.2	8.1
831001-831003		2.9	3.90	56.5	2.8	10.0	13.2	9.3	21.4	67.7	112.4
831003-831010		36.3	5.00	34.8	7.9	5.0	1.6	2.9	0.7	36.7	11.2
831010-831017		32.5	4.80	26.1	3.3	5.0	4.9	4.3	7.1	28.2	16.9
831017-831024		33.8	5.15	39.1	4.1	5.0	7.4	2.9	2.9	42.3	10.0
831024-831031		103.8	5.30	26.1	4.3	5.0	5.8	2.9	0.0	28.2	7.5
831031-831101		5.4	5.60	34.8	6.4	5.0	5.8	2.9	3.6	36.7	5.6
831101-831107		75.8	5.10	130.5	6.4	10.0	28.0	2.9	4.3	141.0	23.1
831107-831114		18.8	4.20	8.7	3.3	5.0	1.6	29.3	34.3	8.5	59.3
831114-831121		48.4	5.40	56.5	4.3	5.0	12.3	2.9	3.6	70.5	11.2
831121-831128		31.2	4.55	26.1	2.8	5.0	4.9	3.6	15.0	28.2	19.4
831128-831201		5.1	4.95	21.8	3.6	5.0	2.5	2.9	10.0	16.9	7.5
831201-831205		7.0	4.30	43.5	4.1	5.0	7.4	11.4	26.4	59.2	42.5
831205-831212		14.3	5.05	39.1	4.3	5.0	4.1	7.1	5.7	48.0	16.2
831212-831219		11.5	4.20	30.5	2.3	5.0	3.3	23.6	35.7	39.5	51.8
831219-831226		22.6	4.70	47.8	2.3	5.0	8.2	2.9	10.0	59.2	19.4
831226-840101		111.5	5.25	208.8	7.4	10.0	46.9	2.9	2.1	239.8	28.1
840101-840102		13.7	5.35	256.6	9.5	15.0	56.8	2.9	2.1	287.7	32.5
840102-840109		38.5	5.30	87.0	5.4	5.0	18.9	5.7	2.9	98.7	16.2
840109-840116		36.3	4.80	95.7	4.6	5.0	23.9	7.1	7.1	121.3	22.5
840116-840123		6.1	5.15	43.5	8.9	5.0	5.8	9.3	5.7	48.0	9.4
840201-840206		12.7	5.00	65.2	5.4	5.0	11.5	5.0	7.9	67.7	12.5
840206-840213		10.2	4.75	34.8	6.1	5.0	4.9	6.4	6.4	36.7	21.2
840213-840220		2.2	4.85	169.6	41.7	20.0	15.6	114.2	77.1	172.1	93.7
840220-840227		5.7	4.80	30.5	14.3	5.0	2.5	20.7	15.0	33.9	16.2

840227-840301	6.1	4.65	152.3	7.4	10.0	33.7	16.4	8.6	172.1	41.2
840301-840305	6.7	5.25	95.7	10.5	5.0	18.1	12.9	4.3	93.1	27.5
840305-840312	18.5	5.15	156.6	6.9	15.0	33.7	11.4	7.1	183.4	34.4
840402-840409	1.0	4.70	39.1	29.1	10.0	7.4	-99.0	22.1	-99.0	38.1
840409-840416	20.4	5.05	17.4	2.6	5.0	4.1	20.0	10.0	22.6	20.6
840416-840423	4.5	4.20	139.2	5.6	10.0	31.3	50.0	27.1	163.6	90.6
840501-840507	5.6	4.40	21.8	8.2	10.0	7.4	72.8	25.0	28.2	83.7
840514-840521	4.8	4.30	8.7	5.1	39.9	7.4	24.3	19.3	11.3	80.6
840521-840528	2.2	4.05	13.0	36.1	49.9	18.9	78.5	44.3	16.9	194.9
840601-840604	17.4	4.35	21.8	5.9	5.0	4.9	28.6	12.9	2.8	70.0
840611-840618	10.2	5.40	4.3	11.8	5.0	3.3	47.1	12.1	5.6	34.4
840618-840625	16.9	4.60	8.7	7.9	5.0	1.6	7.1	11.4	11.3	26.2
840625-840701	1.6	6.30	52.2	51.1	5.0	7.4	-99.0	12.9	-99.0	36.2
840702-840709	5.7	4.40	17.4	9.5	5.0	3.3	2.9	0.7	16.9	23.1
840709-840716	15.3	4.20	13.0	4.6	5.0	1.6	2.9	12.9	11.3	38.1
840716-840723	6.1	5.00	8.7	4.1	10.0	1.6	2.9	0.7	8.5	3.1
840723-840730	57.0	4.85	13.0	9.7	10.0	2.5	2.9	1.4	14.1	21.2
840730-840801	83.0	4.35	8.7	8.7	20.0	3.3	20.0	18.6	8.5	61.2
840801-840806	29.3	4.60	4.3	2.3	5.0	0.8	2.9	0.7	2.8	18.1
840806-840813	5.7	4.45	17.4	14.8	10.0	4.1	10.7	1.4	16.9	33.1
840813-840820	1.1	4.45	30.5	-99.0	15.0	15.6	-99.0	7.1	33.9	99.3
840827-840901	42.0	4.95	8.7	6.1	5.0	1.6	2.9	2.9	11.3	11.2
840903-840910	16.6	4.65	4.3	1.8	5.0	0.8	2.9	0.7	5.6	25.6
840917-840924	3.8	5.02	43.5	25.6	5.0	4.9	17.1	7.1	50.8	45.6
840924-841001	1.0	6.70	34.8	-99.0	20.0	8.2	-99.0	22.8	-99.0	134.3
841001-841008	17.5	4.73	4.3	3.3	5.0	0.8	7.1	12.1	5.6	25.6
841008-841015	105.1	5.35	26.1	0.2	5.0	4.9	2.9	3.6	31.0	8.1
841015-841022	63.1	5.34	8.7	0.7	5.0	0.8	2.9	5.7	5.6	6.9
841022-841029	16.2	5.14	17.4	8.2	5.0	6.6	2.9	2.1	16.9	18.7
841029-841101	15.3	4.76	4.3	2.0	5.0	24.7	2.9	7.9	5.6	13.7
841101-841105	30.3	4.41	8.7	4.1	15.0	4.1	21.4	26.4	5.6	58.7
841105-841112	6.1	4.88	8.7	3.3	5.0	1.6	2.9	6.4	8.5	16.9
841112-841119	5.7	4.57	8.7	4.9	10.0	4.1	44.3	32.1	5.6	38.7
841119-841126	5.1	4.51	47.8	13.8	10.0	5.8	15.7	42.1	36.7	34.4
841126-841201	23.2	4.86	17.4	2.8	5.0	3.3	3.6	12.9	14.1	21.2
841203-841210	29.3	4.69	26.1	4.1	5.0	4.1	7.1	15.0	28.2	18.7
841210-841217	14.3	5.18	174.0	6.1	10.0	37.8	7.1	4.3	189.0	27.5
841217-841224	22.3	4.85	34.8	3.8	5.0	7.4	2.9	8.6	36.7	16.2
850101-850107	2.2	4.38	34.8	8.4	10.0	6.6	7.1	21.4	33.9	41.2
850107-850114	5.4	4.64	60.9	17.4	10.0	4.1	4.3	13.6	64.9	31.9
850114-850121	4.8	4.97	21.8	5.1	5.0	4.1	4.3	2.9	19.7	11.0
850121-850128	29.3	4.80	26.1	10.0	5.0	3.3	4.3	13.6	25.4	16.2
850128-850201	37.6	4.70	17.4	6.1	5.0	2.5	2.9	14.3	16.9	11.2
850204-850211	13.1	4.86	43.5	10.0	5.0	5.8	8.6	7.9	53.6	20.6

850211-850218	10.8	4.52	13.0	0.2	5.0	3.3	10.0	10.7	22.6	29.4
850218-850225	36.6	4.85	13.0	1.0	5.0	2.5	4.3	10.0	22.6	12.5
850225-850301	2.5	4.30	82.6	23.8	15.0	14.8	25.7	31.4	98.7	72.5
850304-850311	17.5	4.54	17.4	3.8	5.0	1.6	7.1	20.7	19.7	23.1
850311-850318	23.6	5.17	47.8	6.4	5.0	9.9	2.9	4.3	56.4	11.2
850325-850401	3.8	4.74	243.6	8.4	15.0	57.6	20.0	11.4	284.9	60.6
850401-850408	11.5	4.65	26.1	9.2	5.0	4.1	4.3	9.3	31.0	26.2
850415-850422	17.8	4.50	30.5	2.3	5.0	7.4	17.1	24.3	33.9	38.7
850422-850429	5.1	4.63	60.9	5.9	5.0	14.0	4.3	9.3	79.0	34.4
850520-850527	7.6	4.73	17.4	15.3	15.0	9.0	45.7	23.6	16.9	57.9
850603-850610	8.9	3.88	13.0	4.1	10.0	4.9	12.9	43.6	11.3	99.3
850610-850617	7.8	4.85	13.0	4.6	5.0	2.5	25.7	8.6	8.5	26.9
850617-850624	4.3	4.85	13.0	17.6	5.0	4.1	35.7	0.7	11.3	41.8
850701-850708	5.3	4.91	13.0	9.2	5.0	0.8	29.3	10.7	14.1	23.1
850708-850715	21.0	4.46	13.0	7.4	5.0	1.6	24.3	12.1	8.5	49.3
850715-850722	27.1	5.13	8.7	6.4	5.0	0.8	11.4	2.9	5.6	14.4
850722-850729	6.7	4.80	13.0	6.6	5.0	1.6	14.3	0.7	11.3	13.1
850801-850805	2.9	5.40	26.1	20.5	5.0	4.9	15.7	0.7	25.4	16.2
850805-850812	20.4	4.95	8.7	4.6	5.0	1.6	4.3	1.4	5.6	15.6
850812-850819	8.9	4.20	47.8	17.9	5.0	9.0	21.4	30.7	50.8	59.3
850819-850826	30.3	5.05	13.0	15.1	5.0	1.6	4.3	1.4	14.1	15.0
850826-850901	38.9	4.43	26.1	16.9	5.0	3.3	14.3	19.3	25.4	36.9
850901-850909	6.4	4.27	8.7	1.8	5.0	2.5	4.3	17.8	11.3	37.5
850909-850916	17.5	4.40	13.0	3.3	5.0	2.5	7.1	6.4	14.1	29.4
850916-850923	64.0	5.35	26.1	2.8	5.0	4.1	2.9	0.7	31.0	6.9
850923-850930	8.9	5.25	8.7	3.1	5.0	1.6	2.9	0.7	8.5	10.0
851001-851007	29.9	4.40	43.5	3.6	5.0	9.0	8.6	14.3	53.6	38.7
851007-851014	29.9	5.18	8.7	2.0	5.0	1.6	2.9	0.7	8.5	8.7
851014-851021	7.0	5.55	17.4	13.6	5.0	4.9	2.9	1.4	22.6	12.5
851021-851028	3.5	4.39	26.1	11.0	5.0	9.0	2.9	13.6	28.2	45.0
851028-851101	9.2	5.11	13.0	9.2	5.0	3.3	2.9	2.9	11.3	9.4

Table 12. Sogndal discharge data. Units: l/s.

For SOG1 data for the period 831115-840630 are incorrect due to damage to the level recorder. Total runoff for this period is estimated to 656 mm.

For SOG2 and SOG3 measured discharge is imprecise. Estimated rates are given in the following table.

Period	Precipitation measured Haukås		Runoff SOG1 measured		ET est.	Corrected precip.		Added to SOG2 and SOG4		Runoff SOG2				Runoff SOG4						
	mm	Cl meq/m ²	mm	Cl meq/m ²		mm	factor	Cl meq/m ²	mm	Cl meq/m ²	meas. mm	Cl meq/m ²	Corr. mm	factor	Cl meq/m ²	meas. mm	Cl meq/m ²	Corr. mm	factor	Cl meq/m ²
I. 830901-831114	411	19.0	320	10.8	0	320	0.78	14.8	0	0	406	25.1	320	0.79	19.8	600	23.0	320	0.53	12.3
II 831115-840630	493	54.8	656 ^A	75.8 ^A	0	656	1.35	72.9	0	0	725	56.4	656	0.90	51.0	980	58.5	656	0.67	39.2
III 840701-841112	520	6.9	370	15.5	100	470	0.90	6.2	60	2.2	586	19.6	430	0.73	14.4	350	18.8	430	1.23	23.1
IV 841113-850616	345	13.2	476	14.2	0	476	1.38	18.2	0	0	(570)	(14.0)	476	0.84	11.7	925	20.6	476	0.51	10.6
V 850617-851101	342	11.3	352	9.6	100	452	1.32	14.9	63	1.7	394	10.8	415	1.05	11.4	275	7.6	415	1.51	11.5

Table 12. Hydrologic budgets for the Sogndal catchments. Circled values are estimated. Underlined values are calculated. Unmarked values are measured. SOG3 is assumed to have the same hydrologic budgets as SOG1.

^A Measured flow not available due to damage to level recorder during spring snowmelt. Volume estimated as measured precipitation x 1.33. The factor 1.33 comes from the measured runoff/measured precipitation winter 1985 (period IV). Cl flux is scaled to 656 mm runoff.

ARSBLOKK MED DØGNVERDIER: K000 VANNF. 83 NVE S0G1

DAG	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1									1.380	1.750	12.10	.8000
2									.8000	1.380	8.700	.8000
3									.8000	1.750	4.410	.5700
4									1.380	3.170	3.170	.3900
5									1.380	13.50	2.640	.3900
6									1.380	9.710	4.410	.2500
7									1.380	4.410	9.710	.1500
8									.8000	2.640	14.70	.1500
9									.8000	2.170	21.00	.1500
10									.8000	1.750	5.910	.1500
11									.8000	1.380	3.170	.1500
12									.8000	1.380	2.170	.3900
13									1.380	2.170	1.750	1.070
14									1.380	3.170	1.750	1.380
15									2.170	4.410	1.380	2.640
16									2.170	4.410	1.070	1.750
17									3.170	5.130	1.070	1.750
18									3.170	3.170	.8000	1.750
19									3.170	3.760	2.170	1.750
20									4.410	3.170	2.170	1.070
21									4.410	2.170	1.750	1.070
22									4.410	1.750	1.750	1.070
23									2.170	5.910	1.380	1.070
24									10.84	7.700	1.380	1.070
25									5.910	4.410	1.380	.8000
26									5.130	28.60	1.070	.5700
27									12.10	24.60	1.070	.5700
28									6.750	6.750	1.070	.5700
29									3.760	3.170	1.070	.5700
30									2.170	5.130	.8000	.5700
31									5.910	5.910	.3900	.3900
SNI TT:												
*2.627+06												
=====												
3.039 5.493 3.899 .8329												
7.982+06 1.443+07 1.024+07 2.188+06												
=====												

RRSBLOKK MED DØGNVERDIER: K000 VANNF. 83 NVE S062

DAG	MÅNED:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1										1500	1500	1580	1500
2										1500	1500	8000	1500
3										1500	1500	3900	1500
4										1500	3900	3900	1500
5										1500	1380	1500	1500
6										1500	8000	3900	1500
7										1500	3900	8000	1500
8										3000-02	3900	1380	1500
9										3000-02	1500	2170	1500
10										3000-02	1500	3900	1500
11										1000-02	1500	3900	1500
12										1000-02	1500	3900	1500
13										1000-02	1500	3900	1500
14										1000-02	1500	3900	1500
15										7000-02	3900	3900	2500
16										7000-02	3900	3900	3900
17										7000-02	3900	1500	3900
18										7000-02	3900	1500	3900
19										7000-02	3900	3900	3900
20										5700	3900	3900	3900
21										1500	1500	3900	3900
22										1500	2500	3900	3900
23										1500	1500	3900	3900
24										1500	1380	3900	2500
25										1500	3900	2500	1500
26										3000-02	3900	2500	1500
27										3000-02	8000	2500	1500
28										3000-02	3900	1500	1500
29										3000-02	3900	1500	1500
30										3000-02	3900	1500	1500
31										1500	8000	1500	7000-02
SNI TT:													
*2.627+06													
=====													
-2750 -2340 -5313 -4680 -2165													
7.223+05 6.146+05 1.395+06 1.229+06 5.685+05													
=====													

ARSBLØKK MED DØGNVERDIER: K000 VANNF. 83 NVE S064

DAG	MÅNED:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1										3.000-02	5.000-03	7.250	7.000-02	
2										3.000-02	5.000-03	7.000-02	7.000-02	
3										3.000-02	7.000-02	7.000-02	7.000-02	
4										3.000-02	7.000-02	7.000-02	7.000-02	
5										3.000-02	2500	7.000-02	7.000-02	
6										3.000-02	7.000-02	7.000-02	7.000-02	
7										3.000-02	7.000-02	2500	7.000-02	
8										3.000-02	7.000-02	2500	7.000-02	
9										3.000-02	7.000-02	5700	7.000-02	
10										3.000-02	7.000-02	1500	7.000-02	
11										3.000-02	5.000-03	7.000-02	7.000-02	
12										3.000-02	5.000-03	7.000-02	7.000-02	
13										3.000-02	7.000-02	3.000-02	7.000-02	
14										3.000-02	7.000-02	3.000-02	7.000-02	
15										3.000-02	7.000-02	3.000-02	7.000-02	
16										3.000-02	7.000-02	3.000-02	7.000-02	
17										3.000-02	7.000-02	3.000-02	7.000-02	
18										3.000-02	7.000-02	3.000-02	7.000-02	
19										3.000-02	5.000-02	7.000-02	7.000-02	
20										1500	3.000-02	7.000-02	7.000-02	
21										3.000-02	3.000-02	7.000-02	7.000-02	
22										3.000-02	7.000-02	7.000-02	7.000-02	
23										1500	7.000-02	7.000-02	7.000-02	
24										3.000-02	7.000-02	7.000-02	7.000-02	
25										3.000-02	7.000-02	7.000-02	7.000-02	
26										3.000-02	7.000-02	7.000-02	7.000-02	
27										3.000-02	7.000-02	7.000-02	7.000-02	
28										3.000-02	7.000-02	7.000-02	7.000-02	
29										3.000-02	7.000-02	7.000-02	7.000-02	
30										3.000-02	7.000-02	7.000-02	7.000-02	
31										3.000-02	2500	7.000-02	7.000-02	
=====														
SNI TT:										7.500-02	6.467-02	9.710-02	9.933-02	7.000-02
*2.627+06										1.970+05	1.699+05	2.550+05	2.609+05	1.839+05
=====														

ARSBLOKK MED DØGNVERDIER: KDDO VANNF. 84 NVE SOG1

DAG	MNRD:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.3900	.1500	.1500	.1500	.1500	22.70	45.70	1.380	1.380	5.910	.3900	5.910	.8000
2	.3900	.1500	.1500	.1500	.1500	32.90	37.70	1.380	3.760	3.760	.3900	4.410	.8000
3	.3900	.1500	.1500	.1500	.1500	32.90	37.70	1.380	8.700	2.640	.3900	6.750	.8000
4	.2500	.1500	.1500	.1500	.1500	30.70	17.70	1.070	5.130	1.750	.3900	13.30	.8000
5	.1500	.1500	.1500	.1500	.1500	24.60	21.00	.8000	4.410	1.750	.3900	12.10	.8000
6	.1500	.1500	.1500	.1500	.1500	17.70	19.30	1.380	4.410	1.380	.3900	6.750	.8000
7	.1500	.1500	.1500	.1500	.1500	13.30	12.10	.8000	4.410	1.380	.8000	4.410	.5700
8	.1500	.1500	.1500	.1500	.1500	10.84	9.710	.8000	3.760	1.070	1.070	3.170	.3900
9	.1500	.1500	.1500	.1500	.1500	10.84	7.700	.8000	2.170	1.750	2.170	3.170	.3900
10	.1500	.1500	.1500	.1500	.1500	10.84	4.410	.5700	2.170	3.170	6.750	2.170	.3900
11	.1500	.1500	.1500	.1500	.1500	10.84	3.760	.5700	1.750	2.640	14.70	2.640	.3900
12	.1500	.1500	.1500	.1500	.1500	14.70	3.760	.5700	1.380	1.750	9.710	2.170	.3900
13	.1500	.1500	.1500	.1500	.1500	17.70	4.410	.5700	.8000	1.070	6.750	2.170	.3900
14	.1500	.1500	.1500	.1500	.1500	19.30	5.130	1.070	.8000	1.070	17.70	2.170	.3900
15	.1500	.1500	.1500	.1500	.1500	26.50	5.130	1.750	.5700	1.070	21.00	1.750	.3900
16	.1500	.1500	.1500	.1500	.1500	48.90	5.130	1.380	.5700	1.070	13.30	1.380	.3900
17	.1500	.1500	.1500	.1500	.1500	48.90	5.130	1.070	.3900	.8000	14.70	1.380	.3900
18	.1500	.1500	.1500	.1500	.1500	63.80	4.410	.8000	.5700	.8000	9.710	1.070	.5700
19	.1500	.1500	.1500	.1500	.1500	40.20	5.910	.8000	.3900	.8000	10.84	.8000	.5700
20	.1500	.1500	.1500	.1500	.2500	35.30	5.910	.5700	.3900	.8000	17.70	.8000	.5700
21	.1500	.1500	.1500	.1500	.5700	48.90	5.130	.3900	.3900	.8000	14.70	.8000	.5700
22	.1500	.1500	.1500	.1500	1.070	63.80	5.910	.3900	.3900	.8000	7.700	.5700	.5700
23	.1500	.1500	.1500	.1500	1.750	42.80	4.410	.2500	.3900	.8000	4.410	.5700	.5700
24	.1500	.1500	.1500	.1500	2.640	42.80	3.170	.2500	.3900	.8000	3.760	.5700	.5700
25	.1500	.1500	.1500	.1500	3.760	40.20	3.170	.2500	.3900	.8000	3.170	.5700	.5700
26	.1500	.1500	.1500	.1500	5.130	37.70	2.640	.2500	.3900	.5700	2.640	.8000	.5700
27	.1500	.1500	.1500	.1500	7.700	32.90	2.640	.2500	.3900	.3900	4.410	.8000	.3900
28	.1500	.1500	.1500	.1500	12.10	42.80	2.170	.2500	.3900	.3900	4.410	.8000	.3900
29	.1500	.1500	.1500	.1500	14.70	40.20	1.750	.2500	.2500	.3900	4.410	.8000	.3900
30	.1500	.1500	.1500	.1500	19.30	32.90	1.750	.8000	.2500	.3900	10.84	.8000	.3900
31	.1500	.1500	.1500	.1500	40.20	40.20	9.710	.8000	9.710	.3900	7.700	.8000	.3900

SNI TT: .1765 .1500 .1500 .1500 .1500 .1500 .1500 .1500 .1500 .1500 .1500 .1500 .1500 .1500
 *2.627+06 4.635+05 3.940+05 3.940+05 3.940+05 6.288+06 8.461+07 2.578+07 2.003+06 5.391+06 3.763+06 1.842+07 7.490+06 1.385+06

ARRSRLOKK MED DAGNVERDIER: 84 NVE SOG2												
DAG	KDDJ VANNF. MAR APR MAY JUN JUL AUG SEP OCT NOV DEC											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.000-02	0.000	0.000	0.000	-1500	1.380	0.000	3.000-02	.5700	.2500	.8000	0.000
2	3.000-02	0.000	0.000	0.000	-1500	-8000	0.000	-2500	-3900	-3900	-8000	0.000
3	3.000-02	0.000	0.000	0.000	-1500	1.070	0.000	-8000	.3900	.8000	1.070	0.000
4	1.000-02	0.000	0.000	0.000	-2500	-3900	0.000	-3900	-1500	-3900	1.750	0.000
5	1.000-02	0.000	0.000	0.000	-2500	-3900	0.000	-3900	.1500	.3900	1.380	0.000
6	1.000-02	0.000	0.000	0.000	-2500	.1500	0.000	-3900	.1500	.3900	.8000	0.000
7	0.000	0.000	0.000	0.000	-2500	-2500	0.000	-3900	-1500	-3900	.5700	0.000
8	0.000	0.000	0.000	0.000	-3900	.1500	0.000	-2500	.1500	.3900	-3900	0.000
9	0.000	0.000	0.000	0.000	-3900	7.000-02	0.000	-2500	.5700	.8000	-3900	0.000
10	0.000	0.000	0.000	0.000	-3900	3.000-02	0.000	-1500	.3900	1.070	-3900	0.000
11	0.000	0.000	0.000	0.000	-3900	1.000-02	0.000	.1500	.3900	1.380	-3900	0.000
12	0.000	0.000	0.000	0.000	-5700	1.000-02	0.000	7.000-02	-3900	.8000	-3900	0.000
13	0.000	0.000	0.000	0.000	-8000	3.000-02	0.000	7.000-02	.5700	.5700	-3900	0.000
14	0.000	0.000	0.000	0.000	-8000	-1500	0.000	3.000-02	.3900	2.640	-3900	0.000
15	0.000	0.000	0.000	0.000	1.380	-1500	0.000	1.000-02	.2500	1.750	-3900	0.000
16	0.000	0.000	0.000	0.000	3.170	7.000-02	0.000	0.000	.2500	1.380	-3900	0.000
17	0.000	0.000	0.000	0.000	2.640	7.000-02	0.000	0.000	-1500	1.070	-3900	0.000
18	0.000	0.000	0.000	0.000	3.760	7.000-02	0.000	0.000	-1500	.3900	7.000-02	0.000
19	0.000	0.000	0.000	0.000	2.170	-2500	0.000	0.000	.1500	.8000	3.000-02	0.000
20	0.000	0.000	0.000	0.000	2.170	-2500	0.000	0.000	.2500	1.750	3.000-02	0.000
21	0.000	0.000	0.000	0.000	2.640	-3900	0.000	0.000	.1500	1.380	3.000-02	0.000
22	0.000	0.000	0.000	0.000	3.170	-3900	0.000	0.000	.1500	.5700	3.000-02	0.000
23	0.000	0.000	0.000	0.000	2.170	-2500	0.000	0.000	.1500	.3900	1.000-02	0.000
24	0.000	0.000	0.000	0.000	3.000-02	-1500	0.000	0.000	-1500	.3900	1.000-02	0.000
25	0.000	0.000	0.000	0.000	1.750	-1500	0.000	0.000	-1500	.2500	0.000	0.000
26	0.000	0.000	0.000	0.000	1.070	7.000-02	0.000	0.000	.3900	.3900	0.000	0.000
27	0.000	0.000	0.000	0.000	1.070	3.000-02	0.000	0.000	-3900	.3900	0.000	0.000
28	0.000	0.000	0.000	0.000	1.380	7.000-02	0.000	0.000	.3900	.3900	0.000	0.000
29	0.000	0.000	0.000	0.000	1.380	3.000-02	0.000	-1500	-3900	.3900	0.000	0.000
30	0.000	0.000	0.000	0.000	1.070	1.000-02	0.000	1.380	1.070	0.000	0.000	0.000
31	0.000	0.000	0.000	0.000	1.380	1.070	0.000	1.070	.8000	0.000	0.000	0.000
SMTT: 5.161-03 0.000 2.333-02 1.268 .2427 0.000 .2773 .7806 .3760 0.000												
*2.627+06 1.356+04 0.000 6.129+04 3.330+06 6.374+05 5.270+05 7.284+05 2.050+06 9.376+05 0.000												

ARRSBLOKK MED DØGNVERDIER: 84 NVE S064

KD00 VANNF.

DAG	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.000-02	0.000	0.000	0.000	.2500	3.000-02	0.000	0.000	3.000-02	7.000-02	5.000-02	0.000
2	7.000-02	0.000	0.000	0.000	.3900	1.000-02	0.000	3.000-02	1.000-02	1.000-02	1.000-02	0.000
3	3.000-02	0.000	0.000	0.000	.2500	7.000-02	0.000	7.000-02	1.000-02	7.000-02	5.000-02	0.000
4	3.000-02	0.000	0.000	0.000	.2500	3.000-02	0.000	7.000-02	1.000-02	1.000-02	.1500	0.000
5	3.000-02	0.000	0.000	0.000	.2500	1.000-02	0.000	7.000-02	1.000-02	1.000-02	5.000-02	0.000
6	3.000-02	0.000	0.000	0.000	.1500	1.000-02	0.000	3.000-02	0.000	1.000-02	1.000-02	0.000
7	1.000-02	0.000	0.000	0.000	7.000-02	0.000	0.000	3.000-02	0.000	1.000-02	1.000-02	0.000
8	1.000-02	0.000	0.000	0.000	7.000-02	0.000	0.000	3.000-02	0.000	1.000-02	0.000	0.000
9	1.000-02	0.000	0.000	0.000	7.000-02	0.000	0.000	3.000-02	1.000-02	7.000-02	0.000	0.000
10	1.000-02	0.000	0.000	0.000	7.000-02	0.000	0.000	1.000-02	5.000-02	.1500	0.000	0.000
11	0.000	0.000	0.000	0.000	7.000-02	0.000	0.000	1.000-02	5.000-02	.1500	0.000	0.000
12	0.000	0.000	0.000	0.000	.1500	0.000	0.000	1.000-02	5.000-02	5.000-02	0.000	0.000
13	0.000	0.000	0.000	0.000	.1500	1.000-02	1.000-02	0.000	5.000-02	.1500	0.000	0.000
14	0.000	0.000	0.000	0.000	.1500	3.000-02	1.000-02	0.000	1.000-02	.2500	0.000	0.000
15	0.000	0.000	0.000	0.000	.2500	1.000-02	0.000	0.000	1.000-02	.3900	0.000	0.000
16	0.000	0.000	0.000	0.000	.3900	1.000-02	0.000	0.000	1.000-02	7.000-02	0.000	0.000
17	0.000	0.000	0.000	0.000	.3900	0.000	0.000	0.000	0.000	.1500	0.000	0.000
18	0.000	0.000	0.000	0.000	.3900	1.000-02	0.000	0.000	0.000	7.000-02	0.000	0.000
19	0.000	0.000	0.000	0.000	.2500	3.000-02	0.000	0.000	0.000	.2500	0.000	0.000
20	0.000	0.000	0.000	0.000	.2500	1.000-02	0.000	0.000	0.000	.2500	0.000	0.000
21	0.000	0.000	0.000	0.000	.3900	1.000-02	0.000	0.000	0.000	.2500	0.000	0.000
22	0.000	0.000	0.000	0.000	.3900	3.000-02	0.000	0.000	0.000	5.000-02	0.000	0.000
23	0.000	0.000	0.000	0.000	.2500	3.000-02	0.000	0.000	0.000	1.000-02	0.000	0.000
24	0.000	0.000	0.000	0.000	.2500	1.000-02	0.000	0.000	0.000	1.000-02	0.000	0.000
25	0.000	0.000	0.000	0.000	.2500	1.000-02	0.000	0.000	0.000	1.000-02	0.000	0.000
26	0.000	0.000	0.000	0.000	.1500	1.000-02	0.000	0.000	0.000	1.000-02	0.000	0.000
27	0.000	0.000	0.000	0.000	.1500	1.000-02	0.000	0.000	5.000-02	3.000-02	0.000	0.000
28	0.000	0.000	0.000	0.000	.1500	1.000-02	0.000	0.000	1.000-02	1.000-02	0.000	0.000
29	0.000	0.000	0.000	0.000	7.000-02	1.000-02	0.000	0.000	1.000-02	1.000-02	0.000	0.000
30	0.000	0.000	0.000	0.000	7.000-02	1.000-02	1.000-02	.1500	1.000-02	.1500	0.000	0.000
31	0.000	0.000	0.000	0.000	7.000-02	0.000	0.000	.1500	1.000-02	3.000-02	0.000	0.000
SNI TT:	9.677-03	0.000	0.000	3.367-02	.2081	1.433-02	9.677-04	2.258-02	1.300-02	8.355-02	1.100-02	0.000
*2.627+06	2.542+04	0.000	0.000	8.843+04	5.465+05	3.765+04	2.542	5.931+04	3.415+04	2.194+05	2.489+04	0.000

DAG	ARRSBLOKK MED DØGNVERDIER: K000 VANNF. 85 NVE SOG1											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.2500	.2500	.2500	.1600	.2500	5.000	2.400	.9400	5.100	13.30	1.100	
2	.2500	.2500	.2500	.1600	.2500	4.100	1.600	.8800	3.800	5.100	1.100	
3	.2500	.2500	.2500	.1400	.2500	3.900	1.200	.8300	3.200	4.400	1.100	
4	.2500	.2500	.2500	.1200	.2700	3.300	1.000	.7500	2.600	5.100	1.100	
5	.2500	.2500	.2500	.1200	.2800	3.900	.8400	.6400	2.200	10.80	1.100	
6	.2500	.2500	.2500	.1100	.3200	3.700	.7400	.5100	2.600	5.900	1.100	
7	.2500	.2500	.2500	9.000-02	.3700	3.500	.6500	.7700	1.400	5.100	1.400	
8	.2500	.2500	.2500	.1000	.4200	3.600	.7900	.9700	1.400	5.100	1.400	
9	.2500	.2500	.2500	.1000	11.10	2.900	.9500	.9400	1.100	3.200	3.200	
10	.2500	.2500	.2500	.1100	13.70	2.500	1.200	8.000-02	1.100	3.200	3.200	
11	.2500	.2500	.2500	.1000	11.90	1.900	1.400	.9800	.8000	6.800	6.800	
12	.2500	.2500	.2500	.1100	12.30	1.300	1.800	1.300	.8000	5.900	5.900	
13	.2500	.2500	.2500	.1300	14.30	1.200	2.200	1.900	.8000	4.400	4.400	
14	.2500	.2500	.2500	.1300	16.40	.9000	2.500	2.100	1.100	4.400	4.400	
15	.2500	.2500	.2500	.1300	21.70	.8000	3.000	2.300	3.200	4.400	4.400	
16	.2500	.2500	.2500	.1400	22.40	.7000	3.400	2.300	8.700	4.400	4.400	
17	.2500	.2500	.2500	.1400	29.70	.7000	3.900	1.900	5.100	3.800	3.800	
18	.2500	.2500	.2500	.1400	25.80	.6000	4.400	1.400	3.800	3.200	3.200	
19	.2500	.2500	.2500	.1600	29.80	.5300	5.800	1.300	3.800	2.600	2.600	
20	.2500	.2500	.2500	.1600	26.30	.5300	10.60	1.400	8.700	2.600	2.600	
21	.2500	.2500	.2500	.1600	24.80	.5300	10.50	1.400	9.700	2.200	2.200	
22	.2500	.2500	.2500	.1800	28.20	.4900	6.100	3.200	7.700	2.200	2.200	
23	.2500	.2500	.2500	.1800	14.90	.4900	3.900	5.900	4.400	2.200	2.200	
24	.2500	.2500	.2500	.1800	10.50	.4900	3.500	4.400	3.200	2.200	2.200	
25	.2500	.2500	.2500	.2000	15.80	.4500	2.900	3.800	2.600	1.800	1.800	
26	.2500	.2500	.2500	.2000	18.40	.4100	2.400	3.200	2.200	1.800	1.800	
27	.2500	.2500	.2500	.2300	23.40	.4600	2.100	2.200	2.200	1.400	1.400	
28	.2500	.2500	.2200	.2300	20.50	.7000	1.800	4.400	2.200	1.100	1.100	
29	.2500	.2500	.1900	.2200	13.60	1.300	1.500	3.800	2.600	1.100	1.100	
30	.2500	.2500	.1900	.2300	8.300	2.600	1.200	3.200	7.700	1.100	1.100	
31	.2500	.2500	.1800	.2300	6.000	1.000	1.000	5.900	1.100	1.100	1.100	
SNITT:	.2500	.2500	.2423	.1510	13.62	1.799	2.809	2.116	3.527	3.932	1.143	
*2.627+06	6.566+05	6.566+05	6.363+05	3.966+05	3.577+07	4.726+06	7.377+06	5.557+06	9.263+06	1.033+07	3.002+06	

ARSBLOKK MED DØGNVERDIER: K000 VANNF. 85 NVE S062

DAG	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						.2500	.1500	5.000-03	.3900	1.750	.2500	
2						.1500	7.000-02	5.000-03	.3900	.3900	.2500	
3						.1500	7.000-02	5.000-03	.2500	.3900	.1900	
4						7.000-02	7.000-02	5.000-03	.2500	.3900	.2100	
5						7.000-02	7.000-02	5.000-03	.1500	.5700	.3900	
6						7.000-02	7.000-02	0.000	7.000-02	.3900	.8000	
7						7.000-02	3.000-02	3.000-02	7.000-02	.5700		
8						.1500	3.000-02	7.000-02	7.000-02	.2500		
9						.1500	3.000-02	7.000-02	7.000-02	.2500		
10						7.000-02	7.000-02	3.000-02	7.000-02	.2500		
11						7.000-02	7.000-02	3.000-02	7.000-02	.5700		
12						.3900	7.000-02	.1500	7.000-02	.5700		
13						.2500	7.000-02	.1500	.1500	.3900		
14						.1500	7.000-02	.1500	.1500	.3900		
15						.1500	.1500	.1500	.3900	.2500		
16						.1500	7.000-02	.1500	.8000	.1500		
17						7.000-02	7.000-02	7.000-02	.3900	.1500		
18						7.000-02	7.000-02	3.000-02	.2500	.2500		
19						3.000-02	7.000-02	3.000-02	.3900	.3900		
20						3.000-02	.2500	.1500	.8000	.3900		
21						5.000-03	.5700	.5700	1.070	.3900		
22					2.170	5.000-03	.3900	1.070	.5700	.3900		
23					1.070	5.000-03	.2500	.5700	.2500	.2800		
24					1.380	5.000-03	.1500	.3900	.1500	.2500		
25					1.380	0.000	.1500	.3900	.1500	.2500		
26					1.070	3.000-02	7.000-02	.2500	.1500	.1800		
27					1.380	.1500	7.000-02	.1500	.1500	.1800		
28					1.070	7.000-02	3.000-02	.8000	.2500	.1800		
29					.8000	.1500	3.000-02	.5700	.1500	.1800		
30					.5700	.2500	3.000-02	.3900	.1500	.5700		
31					.3900		5.000-03	.5700	.3900	.3900		
SMITT:												
1.128 .1077 .1085 .2260 .2873 .3852 .3483												
*2.627+06 2.963+06 2.828+05 2.851+05 5.935+05 7.547+05 1.012+06 9.149+05												

ÅRSBLOKK MED ØFØSNVERDIER: KDOU VANNF. 85 NVE SØG4

DAG	MRNED:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	7.000-02	5.000-03	1.300-02	4.600-02	5.000-02	5.000-03
2	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	1.900-02	1.900-02	5.000-03
3	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	0.000	8.000-03	1.300-02	1.300-02	5.000-03
4	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	0.000	5.000-03	1.900-02	1.900-02	5.000-03
5	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	0.000	5.000-03	1.900-02	1.900-02	5.000-03
6	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	0.000	5.000-03	1.300-02	1.300-02	5.000-03
7	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	1.300-02	1.300-02	5.000-03
8	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	3.000-02	2.000-03	8.000-03	8.000-03	8.000-03
9	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	2.000-03	8.000-03	8.000-03	8.000-03
10	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	2.000-03	8.000-03	8.000-03	8.000-03
11	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	3.000-02	2.000-03	1.900-02	1.900-02	1.900-02
12	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	3.000-02	2.000-03	1.300-02	1.300-02	1.300-02
13	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	7.000-02	5.000-03	8.000-03	8.000-03	8.000-03
14	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	7.000-02	5.000-03	8.000-03	8.000-03	8.000-03
15	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	7.000-02	5.000-03	8.000-03	8.000-03	8.000-03
16	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	7.000-02	5.000-03	8.000-03	8.000-03	8.000-03
17	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	3.000-02	1.900-02	8.000-03	8.000-03	8.000-03
18	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	3.000-02	8.000-03	8.000-03	8.000-03	8.000-03
19	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
20	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
21	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
22	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
23	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
24	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
25	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
26	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
27	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
28	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
29	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
30	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03
31	0.000	0.000	0.000	0.000	3.000-02	3.000-02	3.000-02	3.000-02	5.000-03	8.000-03	8.000-03	8.000-03	8.000-03

SNI TT:	0.000	0.000	0.000	4.839-04	2.750-02	3065	2.450-02	5.548-02	1.923-02	8.400-03	9.710-03	5.000-03	5.000-03
*2.627+06	0.000	0.000	1271.	7.225+04	7.998+05	6.435+04	1.457+05	5.050+04	2.206+04	2.206+04	2.550+04	1.313+04	1.313+04
=====													

Table 13. Input-output budgets for winter and summer seasons at Risdalsheia. Units: meq/m²; non-labile Al mg Al/m²; TOC g C/m².

Notes:

- 1) Al calculated from labile-Al measurements assuming valence of +3.
- 2) Organic anion calculated from ionic balance as difference sum cations less sum anions.
- 3) Dry deposit calculated pro rata from 17-month total. Per month H⁺ 1.9, Na 1.9, K 0, Ca 0, Mg 0.4, Al 0, NH₄ 0.4, NO₃ 1.1, Cl 2.2, SO₄ 1.5 meq/m².
- 4) Discharge assumed equal to KIM.
- 5) Birkenes weighted-average concentrations.

ROLF meq/m²

	84061J-841213		841214-850501		850502-85113	
	IN wet	OUT dry	IN wet	OUT dry	IN wet	OUT dry
H ₂ O					844	510
H ⁺					48	45
Na					23	32
K					3	1
Ca					8	8
Mg					6	12
Al ¹					0	4
NH ₄					35	2
PO ₃					27	5
Cl					25	46
SO ₄					53	40
org.anion ²					0	13
NLAL						103
TOC						9,3

K I M meq/m²

	840325-840612			840613-841213			841214-850501			850502-851113		
	IN wet	dry	OUT	IN wet ⁵	dry ³	OUT	IN wet	dry ³	OUT	IN wet ⁵	dry ³	OUT
H ₂ O			417	506	0	410	114	0	153	482	0	272
H ⁺			37	3	11	39	2	9	10	5	12	22
Na			56	27	11	34	11	9	16	23	12	28
K			4	0	0	2	0	0	3	0	0	2
Ca			8	2	0	5	0	0	3	1	0	3
Mg			13	6	2	6	3	2	4	5	3	4
Al ¹			7	0	0	2	0	0	1	0	0	3
NH ₄			7	0	2	1	0	2	3	0	3	2
NO ₃			26	0	7	2	0	5	2	0	7	2
Cl			50	32	13	48	13	10	22	26	14	34
SO ₄			57	4	9	30	1	8	13	3	10	16
org.anion ²			0	0	0	9	0	0	3	0	0	12
NLAL mg/m ²			62			115			30			93
TOC g/m ²			3,5			7,1			2,3			6,1

E G I L meq/m²

	840325-840612		840613-841213		841214-850501		850502-851113		OUT	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
	wet	dry	wet ⁵	dry ³	wet	dry ³	wet ⁵	dry ³	I	
H ₂ O			654	0	654	0	578	0	578	429
H ⁺			27	11	38	60	33	12	45	33
Na			40	11	51	50	16	12	28	28
K			3	0	3	3	2	0	2	2
Ca			6	0	6	8	5	0	5	5
Mg			9	2	11	13	4	3	7	7
Al ¹			0	0	0	12	0	0	0	4
NH ₄			26	2	28	5	24	3	27	6
NO ₃			24	7	31	20	18	7	25	8
Cl			42	13	55	64	17	14	31	27
SO ₄			44	9	53	61	36	10	46	38
org.anion ²			0	0	0	6	0	0	0	12
NLAL						103				109
TOC						5,0				6,5

Table 14. Input-output budgets for winter and summer seasons at Sogndal. Units: meq/m^2 ; labile Al mg Al/m^2 ; TOC g C/m^2 ; SiO_2 $\text{g SiO}_2/\text{m}^2$. Hydrologic budgets estimated for each period.

Notes:

1) From labile Al concentrations assuming valence +1.

SOG I

	830901-831114		831115-840630		840701-841112		84113-850616		850617-851101	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
H ₂ O (mm)	320	320	656	656	470	370	476	476	452	352
H ⁺	4	0	10	1	9	0	10	1	9	0
Na	14	12	64	73	6	18	17	16	24	13
K	2	0	4	10	2	1	3	1	3	0
Ca	2	6	5	14	4	7	3	7	2	6
Mg	3	3	14	11	2	4	3	4	2	3
Al ¹	0	0	0	0	0	0	0	0	0	0
NH ₄	1	0	6	6	3	0	4	2	4	2
NO ₃	1	1	6	2	4	16	7	1	3	0
Cl	15	11	73	76	6	9	18	14	15	10
SO ₄	5	7	18	20	12	1	11	9	10	9
HCO ₃	0	3	0	12	0	0	0	8	0	3
LAL		0.6		13.3		0.1		3.3		0.0
TOC		5.5		4.1		0.4		0.8		0.4
SiO ₂								0.3		0.4

	830901-831114		831115-840630		840701-841112		84113-850616		850617-851101	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
H ₂ O (mm)	320	320	656	656	530	530	476	476	515	415
H ⁺	4	1	35	6	54	3	35	2	66	2
Na	14	17	64	47	9	17	16	13	27	15
K	2	1	4	4	2	1	3	2	4	0
Ca	2	6	5	12	5	12	3	8	3	12
Mg	3	4	13	9	2	5	3	4	2	6
Al ¹	0	0	0	0	0	1	0	0	0	0
NH ₄	1	0	6	3	3	0	4	0	4	0
NO ₃	1	1	6	3	4	1	7	1	3	11
Cl	15	20	73	51	10	14	18	12	17	23
SO ₄	5	7	43	21	57	22	37	11	68	0
HCO ₃	0	3	0	5	0	0	0	2	0	0
LAL		3,2		1,1		36,4		12,0		13,1
TOC		0,8		2,2		0,5		0,9		0,5
SiO ₂								0,4		0,8

	830901-831114		831115-840630		840701-841112		84113-850616		850617-851101	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
H ₂ O (mm)	320	320	656	656	470	370	476	476	452	352
H ⁺	4	1	10	3	9	1	10	1	9	0
Na	14	6	64	64	6	16	17	14	24	13
K	2	0	4	2	2	0	3	1	3	0
Ca	2	6	5	15	4	6	3	7	2	6
Mg	3	3	14	15	2	4	3	4	2	3
Al ¹	0	0	0	0	0	0	0	0	0	0
NH ₄	1	0	6	1	3	0	4	0	4	0
NO ₃	1	0	6	2	4	0	7	0	3	0
Cl	15	13	73	72	6	13	18	12	15	9
SO ₄	5	7	18	17	12	8	11	10	10	8
HCO ₃	0	2	0	0	0	1	0	2	0	2
LAL		0,8		11,7		0,7		2,0		0,1
TOC		0,3		0,4		0,4		0,5		0,3
SiO ₂										

	830901-831114		831115-840630		840701-841112		84113-850616		850617-851101	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
H ₂ O (mm)	320	320	656	656	530	430	476	476	515	415
H ⁺	4	0	35	2	54	2	35	2	66	2
Na	14	12	64	37	9	18	17	12	27	15
K	2	1	4	2	2	0	3	1	4	0
Ca	2	7	5	16	5	12	3	7	3	11
Mg	3	3	14	8	2	5	3	4	2	4
Al ¹	0	0	0	0	0	1	0	0	0	0
NH ₄	1	0	6	1	3	0	4	1	4	0
NO ₃	1	0	18	1	26	3	19	0	32	1
Cl	15	12	73	39	9	23	18	11	13	12
SO ₄	5	6	31	14	34	14	24	10	39	11
HCO ₃	0	4	0	6	0	1	0	2	0	4
LAL		5,2		9,6		15,5		4,4		10,3
TOC		1,0		2,2		0,7		1,1		1,4
SiO ₂								0,4		1,2



RAIN PROJECT

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