

Measured suspended load in the river
Blanda. English summary

Björn A. Harðarson

Greinargerð BAH-84/02

National Energy Authority
Grensasvegur 9
108 Reykjavik
Iceland

MEASURED SUSPENDED LOAD IN THE RIVER BLANDA

English summary

OS-84/02 EAH May 1984

 GREINARBEIÐSÁFNIÐ

A total of 102 samples of suspended load have been taken from the river Blanda during the period 1962-1983. The sample location is at the bridge near Langamyri, called "Blanda Gudlaugsstadir". Table 1 lists all samples.

Table 2 shows calculated total suspended load for each month from January 1966 to December 1980 (in tonnes).

Table 3 shows calculated total suspended load on a yearly basis from 1966 to 1980 (in tonnes). The discharge - suspended load relations for winter and summer are given below table 3.

In Fig. 1 the measured suspended load (<0.2 mm, mg/l) for a typical year (1975) is shown for the period May to September, along with the measured river discharge in m³/s for the same period. The discharge and suspended load of the river is much less during other parts of the year. From Fig. 1 it can be seen that the correlation between the discharge and the amount of suspended load is rather obscured.

A total of seven samples have been analyzed mineralogically and the results are shown in Table 4. Most of the grains (>0.02 mm) are basaltic glass (23-52%) and crystallized basalt fragments (11-48%). The quartz content is <1%.

TABLE 1

Explanations

Columns:

- 1 Date
- 2 Time
- 3 Discharge (m^3/s)
- 4 Suspended load (mg/l)
- 5 Suspended load (kg/s)
- 6 Dissolved solids (mg/l)
- 7 Grainsize "sandur" >0.2 mm (mg/l)
- 8 Grainsize "mor" 0.02 - 0.2 mm (mg/l)
- 9 Grainsize "mela" 0.002 - 0.02 mm (mg/l)
- 10 Grainsize "leir" <0.002 mm (mg/l)
- 11 - " - >0.2 mm (%)
- 12 - " - 0.02 - 0.2 mm (%)
- 13 - " - 0.002 - 0.02 mm (%)
- 14 - " - <0.002 mm (%)
- 16 Type of sample S1: Suspended load taken into bottles in a sampler on several verticals, usually 3-5.
S2: Similiar to S1, but taken from only 1 or 2 verticals.
S3: Suspended load taken into bottles in a sampler near river banks.
F: Suspended load taken into bottles without a sampler.
- 15 Largest grains (\emptyset mm)
- 17 Internal diameter of intake nozzle of sampler (mm)
- 18 Notes (not important except "17: Contaminated by tephra from an eruption").

TABLE 1

ORKUSTOFNUN

TEKIÐ DAGSETN.	RENNSLI KLUKKA	S KL/S	SVIFAUR		UPPL. EFNI MG/L	KORNASTÆRD MG/L				KORNASTÆRD %				STÆRST TÖKU- KORN AÐFERÐ ATH			
			MG/L	KG/S		SANDUR	MOR	MELA	LEIR	SD	MR	KL	LR	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
BLANDA GUDLAUGSSTADIR																	
62.04.28	1700	250	727	181.75	6	145	429	145	7	20	59	20	1		F		AB
62.07.02	1400	51.0	114	5.81	50	1	30	41	42	1	26	36	37		F		AB
64.03.08	1800	62.0	131	8.12	28	31	37	37	26	24	28	28	20	0.9	F		A
64.04.02	1400	50.0	43	2.15	28	0	11	16	15	0	26	38	36		F		B
64.06.25	1900	55.0	75	4.13	59	3	17	37	18	4	23	49	24	0.8	F		
64.06.28	1700	44.0	68	2.99	64	1	26	35	5	2	38	52	8	0.6	F		
64.07.23	2400	130	1047	136.11	42	94	377	429	147	9	36	41	14	1.3	F		
64.07.24	2300	87.0	494	42.98	57	15	128	212	138	3	26	43	28	1.3	F		
66.04.20	2100	14.0	54	0.76	49	2	36	11	5	4	66	20	10	0.5	F		
66.04.28	1030	33.0	50	1.65	94	10	10	20	11	19	20	40	21	0.6	F		
66.06.13	1200	92.0	556	51.15	34	100	256	156	44	18	46	28	8	1.5	F		
66.07.21	2000	91.0	607	55.24	38	79	206	231	91	13	34	38	15	1.5	F		
66.10.30	1200	97.0	3769	365.59	50	415	1809	1357	188	11	48	36	5	2.4	F		
66.10.31	1500	17.0	100	1.70	81	25	29	25	21	25	29	25	21	1.1	F		
70.05.07	1600	81.0	3594	291.11	55	611	2372	539	72	17	66	15	2	1.1	F		17
70.05.09	1600	151	1009	152.36	34	242	646	111	10	24	64	11	1	1.4	F		17
70.05.10	1900	176	602	141.15	27	136	521	120	24	17	65	15	3	1.3	F		
75.05.25	0945	151	683	103.13	30	102	410	150	20	13	60	22	3	1.0	F		
75.06.16	2200	47.1	28	1.32	55	0	3	14	11	0	10	51	39	0.2	F		
75.06.20	1030	46.4	16	0.74	46	0	2	3	11	0	13	19	68	0.2	F		
75.06.20	1615	44.1	11	0.49	55	0	2	3	6	0	19	28	53		F		
75.07.04	1245	48.6	97	4.71	69	0	10	43	43	0	10	44	46		F		
75.07.06	1550	68.9	443	30.52	63	0	84	284	75	0	19	64	17	0.3	F		
75.07.07	1130	88.7	972	86.22	73	0	243	632	97	0	25	65	10	0.3	F		
75.07.24	1550	51.6	203	10.47	60	0	28	122	53	0	14	60	26	0.4	F		
76.08.07	1900	78.2	359	28.07	51	0	111	180	68	0	31	50	19	0.2	F		
MEDALTAL	26	81.0	617	65.79	50	77	301	190	48	9	35	36	21				
F-SYNA 1962-76							379	239			43		57				
BLANDA GUDLAUGSSTADIR																	
65.08.24	2030	51.0	224	11.42	46	20	78	94	31	9	35	49	14	1.4	S1		
66.06.06	1000	46.0	84	3.86	26	13	30	24	17	15	36	29	20	1.3	S1		C
69.06.25	1220	72.0	370	26.64	45	22	111	185	52	6	30	50	14	2.7	S1		
70.05.28	2000	76.0	124	9.42	28	22	57	41	4	18	46	33	3	0.9	S3	6.0	L
70.05.31	2200	58.0	42	2.44	32	15	15	12	0	35	36	29	0	1.4	S3	6.0	L
70.06.03	2300	167	2235	373.24	30	246	1654	313	22	11	74	14	1	0.8	S3	6.0	L
70.07.15	1700	40.0	28	1.12	44	5	13	8	2	19	45	30	6	0.9	S3	6.0	XBL
74.08.16	1150	65.0	593	38.54	66	30	160	285	119	5	27	48	20	0.6	S1	4.0	C
74.08.17	1145	64.0	523	33.47	77	37	146	267	73	7	28	51	14	1.0	S1	4.0	C
74.08.23	1610	49.0	162	7.94	73	8	21	65	68	5	13	40	42	0.4	S1	4.0	C
74.08.26	1800	34.0	90	3.06	70	5	14	46	25	6	15	51	28	0.3	S1	4.0	C
74.09.19	1330	27.0	39	1.05	64	2	12	22	3	5	32	56	7	0.6	S1	4.0	C

TEKIÐ RENNSLI			SVIFAUR		UPFL. EFNI	KORNASTÁRD MG/L				KORNASTÁRD %				STÆRST TÖKU-KORN AÐFERÐ ATH			
DAGSETN.	KLUKKA	KL/S	MG/L	KG/S	MG/L	SANDUR	MOR	MELA	LEIR	SD	MR	KL	LR	15	16	17	18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
BLANDA GUDLAUGSSTADIR																	
75.05.22	1800	61.1	107	6.54	31	4	63	27	13	4	59	25	12	0.6	S3	6.0	
75.07.11	1715	88.7	811	71.94	64	16	187	454	151	2	23	56	19	0.5	S1	4.0	
75.08.12	1600	100	1134	113.40	50	68	465	465	136	6	41	41	12	0.9	S1	6.0	
75.08.20	1240	72.2	669	48.30	73	13	201	335	120	2	30	50	18	0.4	S3	6.0	
75.08.30	1810	76.7	840	64.43	57	17	403	344	76	2	48	41	9	0.4	S3	6.0	
75.08.30	1900	80.0	930	74.40	53	37	446	372	74	4	48	40	8	0.7	S1	4.3	
75.09.05	1115	54.2	312	16.91	60	9	72	165	66	3	23	53	21	0.4	S1	4.3	
75.09.15	1300	36.8	164	6.04	55	5	34	85	39	3	21	52	24	0.5	S1	4.3	
75.09.27	1415	29.6	21	0.62	70	0	7	13	1	1	32	62	5	0.3	S3	6.0	
75.11.06	1100	22.2	17	0.38	79	2	4	9	2	11	26	53	10	0.3	S1	4.3	
76.04.24	1530	149	711	105.94	30	547	121	43	0	77	17	6	0	1.1	S1	4.0	
76.05.20	2040	119	340	40.46	42	48	197	88	7	14	56	26	2	0.6	S1	4.0	
76.06.26	1845	83.7	257	21.51	61	15	85	103	54	6	33	40	21	0.5	S1	3.0	
76.10.08	1100	36.2	46	1.67	56	1	12	17	16	2	25	38	35	0.3	S1		
77.01.28	1400	18.6	2	0.04	62	0	0	2	0	2	23	75	0	1.0	S2	6.0	AKC
77.04.28	1320	22.2	51	1.13	50	23	17	11	0	45	34	21	0	0.8	S2		
77.08.09	0940	40.1	63	2.53	58	4	28	21	9	7	45	34	14	0.5	S1	4.0	
77.08.30	1820	44.9	165	7.41	62	13	53	76	23	8	32	46	14	0.5	S1	3.0	
77.09.17	0250	21.7	26	0.56	56	2	10	14	0	6	39	55	0	0.5	S2	4.0	
78.04.22	1540	50.8	73	3.71	38	21	37	15	0	29	51	20	0	0.6	S1	4.0	
78.05.09	1635	197	999	196.80	21	180	629	170	20	18	63	17	2	0.8	S1	4.0	
78.06.23	1300	30.6	17	0.52	53	1	3	7	6	3	70	40	37	0.3	S1	4.0	
78.07.21	1700	50.8	180	9.14	66	4	20	121	36	2	11	67	20	0.9	S1	4.0	
78.07.30	1120	63.9	283	18.08	68	17	99	133	34	6	35	47	12	0.8	S1	4.0	
78.07.31	0130	53.4	234	12.50	63	12	94	98	30	5	40	42	13	0.8	S1	4.0	
78.08.20	1020	117	1266	148.12	44	203	595	380	89	16	47	30	7	0.8	S1	4.0	
78.09.02	2100	44.1	269	11.86	59	19	105	124	22	7	39	46	8	1.5	S1	4.0	
78.09.08	2100	43.4	183	7.94	37	5	48	60	70	3	26	33	38	0.5	S1	4.0	
78.09.11	0840	36.2	117	4.24	64	2	47	57	11	2	40	49	9	0.8	S1	4.0	
78.09.14	1820	39.4	89	3.51	47	8	28	36	17	9	32	40	19	0.6	S1	4.0	
78.10.06	1750	29.6	25	0.74	47	7	7	10	2	29	26	38	7	0.6	S1	6.0	
78.11.11	1540	24.0	15	0.36	50	5	8	1	2	30	52	5	13	0.8	S1	3.0	
79.02.24	1240	43.4	130	5.64	51	36	64	26	4	28	49	20	3	1.0	S1	3.0	
79.04.28	1835	47.8	173	8.27	33	15	85	38	5	26	49	22	3	0.8	S1	4.0	
79.06.06	1445	121	271	32.79	19	38	141	79	14	14	52	29	5	1.5	S1	6.0	
79.06.29	1900	43.4	91	3.95	38	64	8	10	9	70	9	11	10	1.2	S1	6.0	
79.07.22	1420	56.0	169	9.46	54	5	22	118	24	3	13	70	14	0.6	S1	6.0	
79.08.01	1230	62.8	214	13.44	44	17	30	133	34	8	14	62	16	0.7	S1	6.0	
79.08.09	1120	53.4	68	3.63	49	3	12	38	15	5	17	56	22	0.4	S1	6.0	
79.09.27	1300	30.1	52	1.57	57	21	8	23	0	41	15	44	0	1.0	S1		
79.10.24	1755	35.4	72	2.55	54	3	25	33	11	4	35	46	15	0.7	S1		
79.12.12	0945	25.8	7	0.18	66	1	5	1	0	14	75	11	0	0.3	S3	6.0	
80.02.27	1430	20.9	8	0.17	59	1	5	2	0	12	64	24	0	0.5	S1	5.0	AR
80.05.29	1720	32.2	13	0.42	54	0	2	8	3	2	14	59	25	0.3	S1	4.0	
80.06.19	1815	49.3	36	1.77	52	1	8	14	13	4	23	38	35	0.3	S2	4.0	
80.06.27	2200	40.8	36	1.47	44	0	5	18	13	1	15	49	35	0.3	S1	4.0	
80.07.09	1315	55.2	205	11.32	42	4	27	133	41	2	13	65	20	0.7	S1	4.0	
80.08.14	2050	49.3	173	8.53	50	12	55	80	26	7	32	46	15	0.5	S1	4.0	
80.08.28	1720	43.4	265	11.50	46	3	82	148	32	1	31	56	12	0.6	S1	4.0	21
80.09.18	1655	26.2	32	0.84	45	1	4	22	5	3	11	69	17	0.4	S1	4.0	
81.04.14	1810	65.0	477	31.00	69	91	320	52	14	19	67	11	3	1.1	S1	5.0	
81.05.27	1600	149	297	44.25	27	50	160	65	21	17	54	22	7	1.1	S1	5.0	
81.06.11	2110	31.1	17	0.53	56	2	4	6	5	9	21	38	32	0.5	S1	5.0	
81.07.06	1025	68.3	653	44.60	67	20	215	353	65	3	33	54	10	0.8	S1	5.0	
81.07.22	1430	46.4	296	13.73	59	3	89	169	36	1	30	57	12	0.5	S1	6.0	

Table 1 cont'd.


ORKUSTOFNUN

T E K I ð		RENNSLI	S V I F A U R		UPPL.	KORNASTARD MG/L				KORNASTARD %				STÆRST TÖKU- KORN AÐFERÐ ATH			
DAGSETN.	KLUKKA	KL/S	MG/L	KG/S	MG/L	SANDUR	MOR	MELA	LEIR	SD	MR	NL	LR	Ø	MM	ATH	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
BLANDA GUDLAUGSSTADIR																	
81.08.16	1830	61.7	426	26.28	35	34	162	179	51	8	38	42	12	0.7	51	6.0	
81.09.01	2200	100	1445	144.50	57	289	751	332	72	20	52	23	5	1.1	51	4.0	
81.09.20	1620	38.8	95	3.69	60	13	29	39	14	14	30	41	15	0.8	51	6.0	
82.04.06	1520	23.9	8	0.19	55	1	4	2	1	15	50	22	13	0.4	51	6.0	AK
82.06.02	1225	123	843	103.69	28	211	506	101	25	25	60	12	3	1.8	51	4.0	
82.06.11	0945	93.0	424	39.43	30	157	157	93	17	37	37	22	4	1.1	51	4.0	
82.07.13	1830	53.3	257	13.70	33	18	64	139	26	7	25	54	14	0.7	51	4.0	
82.08.17	2000	38.9	133	5.17	43	27	37	47	23	20	28	35	17	0.9	51	4.0	
82.09.25	1010	22.1	16	0.35	53	1	6	9	0	7	35	56	2	0.5	51	6.0	AR
MEDALTAL 76 58.4 294 27.67 51 38 125 102 29 13 35 40 13 0.7																	
S-SYNA 1965-82 164 130 47 53																	
BLANDA GUDLAUGSSTADIR																	
80.02.27	1440		143		10	20	87	31	4	14	61	22	3	0.8	11		
BLANDA GUDLAUGSSTADIR																	
83.03.15	1630	16.1	13	0.21	71	0	2	10	1	2	16	75	7	0.3	51	6.0	
83.03.16	1000	18.5	27	0.50	74	11	5	11	1	39	19	19	3	0.8	51	6.0	
83.04.27	1700	14.2	35	0.50	76	3	5	25	2	8	14	71	7	0.7	51	5.0	
83.05.25	2020	51.7	499	25.80	40	374	55	70	0	75	11	14	0	2.2	51	4.0	
83.05.08	2015	72.3	344	24.87	19	96	179	69	0	28	52	20	0	1.3	51	4.0	
83.07.12	1550	31.3	53	1.66	33	3	14	26	10	6	26	49	19	0.5	51	4.0	
BLANDA GUDLAUGSSTADIR																	
01.09.10	1540	49.3	678	33.43	43	136	292	231	20	20	43	34	3	1.4	51	3.0	
01.09.16	1720	24.3	58	0.92	40	8	7	19	4	21	19	50	10	1.1	51	5.0	
01.11.04	1215	15.1	9	0.14	53	1	4	5	0	3	39	53	0	0.5	51	6.0	
MEDALTAL 9 22.5 188 9.78 50 70 62 52 4 23 27 45 5 1.0																	
S-SYNA 1982 133 56 50 50																	

TABLE 2

Month/year	Total	Coarse (>0,002mm)	Fine (<0,002mm)
JAN 1966	1014.	456.	431.
FEB 1966	184.	60.	115.
MAR 1966	292.	102.	166.
APR 1966	1859.	828.	781.
MAY 1966	24428.	14538.	7035.
JUN 1966	18841.	10353.	5966.
JUL 1966	83127.	27180.	54073.
AGU 1966	55225.	18034.	36084.
SEP 1966	6342.	2268.	3522.
OKT 1966	803.	305.	401.
NOV 1966	10349.	3412.	6660.
DES 1966	99.	41.	43.
JAN 1967	21993.	17009.	4580.
FEB 1967	267.	91.	155.
MAR 1967	108.	33.	73.
APR 1967	244186.	237872.	37737.
MAY 1967	29365.	17274.	8550.
JUN 1967	78298.	53930.	18811.
JUL 1967	15845.	5508.	9245.
AGU 1967	40612.	13332.	26318.
SEP 1967	12142.	4241.	7030.
OKT 1967	1354.	505.	698.
NOV 1967	8404.	2777.	5376.
DES 1967	8802.	2912.	5627.
JAN 1968	38.	11.	30.
FEB 1968	20522.	16251.	4053.
MAR 1968	13658.	8236.	3925.
APR 1968	44795.	30813.	10818.
MAY 1968	184621.	148189.	36209.
JUN 1968	320911.	291816.	54715.
JUL 1968	36339.	12093.	22945.
AGU 1968	87974.	28571.	57968.
SEP 1968	24378.	8294.	14782.
OKT 1968	892.	335.	455.
NOV 1968	20962.	6880.	13577.
DES 1968	282.	110.	135.
JAN 1969	71.	23.	45.
FEB 1969	11.	3.	10.
MAR 1969	74.	24.	48.
APR 1969	66756.	51907.	13748.
MAY 1969	32073.	19862.	8839.
JUN 1969	11453.	6015.	3847.
JUL 1969	23334.	8014.	13908.
AGU 1969	325183.	101155.	231173.
SEP 1969	69019.	22494.	45167.
OKT 1969	6862.	2421.	3904.
NOV 1969	171.	69.	77.
DES 1969	143.	58.	63.
JAN 1970	63.	18.	46.
FEB 1970	22.	6.	10.
MAR 1970	21.	5.	17.
APR 1970	95.	29.	64.
MAY 1970	145906.	108421.	31834.
JUN 1970	43111.	26547.	11887.
JUL 1970	21416.	7320.	12890.
AGU 1970	74245.	24349.	48035.
SEP 1970	10873.	3769.	6392.
OKT 1970	7832.	2755.	4479.
NOV 1970	288.	114.	134.

TABLE 2 contd.

DES	1970	466301.	133134.	384765.
JAN	1971	127.	41.	80.
FEB	1971	88.	29.	55.
MAR	1971	10725.	6809.	2896.
APR	1971	4570.	2461.	1539.
MAY	1971	624321.	580459.	102136.
JUN	1971	7466.	3898.	2550.
JUL	1971	31810.	10779.	19426.
AGU	1971	25219.	8640.	15095.
SEP	1971	22793.	7745.	13870.
OKT	1971	8702.	2983.	5230.
NOV	1971	3510.	1259.	1943.
DES	1971	125881.	36882.	99296.
JAN	1972	7627.	4479.	2369.
FEB	1972	1083.	440.	506.
MAR	1972	1425.	587.	653.
APR	1972	53032.	40021.	11430.
MAY	1972	44855.	28104.	12098.
JUN	1972	4577.	2131.	1787.
JUL	1972	60344.	20162.	37800.
AGU	1972	40699.	13673.	25228.
SEP	1972	23379.	7968.	14140.
OKT	1972	8307.	2939.	4703.
NOV	1972	1459.	548.	744.
DES	1972	5736.	2007.	3320.
JAN	1973	94451.	77033.	18334.
FEB	1973	794.	306.	394.
MAR	1973	5808.	2989.	2029.
APR	1973	65362.	45286.	15497.
MAY	1973	17795.	9991.	5504.
JUN	1973	8859.	4448.	3140.
JUL	1973	46133.	15468.	28688.
AGU	1973	56871.	18748.	36497.
SEP	1973	28129.	9580.	17018.
OKT	1973	81516.	25225.	58705.
NOV	1973	47888.	14809.	34437.
DES	1973	483.	187.	233.
JAN	1974	187.	60.	117.
FEB	1974	116.	37.	73.
MAR	1974	98746.	84846.	18296.
APR	1974	424964.	354893.	80058.
MAY	1974	7596.	3766.	2742.
JUN	1974	16008.	8692.	5149.
JUL	1974	43066.	14476.	26660.
AGU	1974	70366.	23101.	45442.
SEP	1974	13208.	4508.	7983.
OKT	1974	3990.	1440.	2187.
NOV	1974	1955.	712.	1055.
DES	1974	462.	181.	220.
JAN	1975	324.	110.	188.
FEB	1975	824.	329.	396.
MAR	1975	973.	390.	465.
APR	1975	7847.	4180.	2622.
MAY	1975	142676.	106171.	31020.
JUN	1975	28501.	17189.	8102.
JUL	1975	152693.	49023.	102546.
AGU	1975	275279.	86853.	190588.
SEP	1975	18132.	6163.	11033.
OKT	1975	17892.	6109.	10796.

TABLE 2 cont'd.

NOV 1975	21922.	7151.	14395.
DES 1975	4585.	1607.	2654.

JAN 1976	1173.	475.	571.
FEB 1976	2742.	1216.	1140.
MAR 1976	1279.	510.	607.
APR 1976	68191.	49425.	15248.
MAY 1976	375893.	322341.	68278.
JUN 1976	87842.	58174.	21980.
JUL 1976	530905.	164361.	380877.
AGU 1976	774193.	234847.	574902.
SEP 1976	54893.	18187.	34888.
OKT 1976	10133.	3555.	5822.
NOV 1976	4696.	1666.	2652.
DES 1976	975.	372.	483.

JAN 1977	910.	388.	412.
FEB 1977	302.	103.	174.
MAR 1977	419.	148.	233.
APR 1977	1713.	811.	683.
MAY 1977	45603.	30376.	11443.
JUN 1977	6773.	3499.	2352.
JUL 1977	118107.	38213.	78229.
AGU 1977	206164.	64228.	146176.
SEP 1977	9478.	3320.	5466.
OKT 1977	2887.	1059.	1533.
NOV 1977	767.	295.	375.
DES 1977	1543.	574.	800.

JAN 1978	840.	320.	423.
FEB 1978	465.	168.	250.
MAR 1978	352.	122.	201.
APR 1978	16854.	10074.	4875.
MAY 1978	312681.	283707.	52872.
JUN 1978	10684.	5788.	3488.
JUL 1978	50275.	16789.	31494.
AGU 1978	172082.	55133.	115983.
SEP 1978	13566.	4717.	7918.
OKT 1978	3672.	1330.	1997.
NOV 1978	1564.	583.	808.
DES 1978	1421.	533.	726.

JAN 1979	430.	153.	237.
FEB 1979	1896.	899.	747.
MAR 1979	542.	197.	290.
APR 1979	5211.	2755.	1766.
MAY 1979	23799.	16406.	5737.
JUN 1979	1197361.	1264908.	167043.
JUL 1979	25197.	8611.	15153.
AGU 1979	31484.	10680.	19187.
SEP 1979	4976.	1795.	2722.
OKT 1979	8304.	2891.	4845.
NOV 1979	1610.	603.	824.
DES 1979	2226.	824.	1163.

JAN 1980	762.	316.	401.
FEB 1980	559.	208.	291.
MAR 1980	460.	163.	253.
APR 1980	3949.	1884.	1510.
MAY 1980	611549.	549850.	104352.
JUN 1980	8452.	4244.	3001.
JUL 1980	30780.	10497.	18640.
AGU 1980	87411.	28574.	56873.
SEP 1980	28492.	9523.	17855.

TABLE 2 cont'd.

OCT 1980	1562.	585.	808.
NOV 1980	9512.	3188.	5959.
DEC 1980	4941.	1668.	3059.

TABLE 3

<u>Year</u>	<u>Total (tonnes)</u>	<u>Coarse (>0,02mm)</u>	<u>Fine (<0,02mm)</u>
ARID 1966	SAMT = 202625.	GROF = 77577.	FINT = 115276.
ARID 1967	SAMT = 461378.	GROF = 355484.	FINT = 124209.
ARID 1968	SAMT = 755374.	GROF = 551598.	FINT = 219612.
ARID 1969	SAMT = 535151.	GROF = 212045.	FINT = 320830.
ARID 1970	SAMT = 770173.	GROF = 306467.	FINT = 500559.
ARID 1971	SAMT = 865213.	GROF = 661985.	FINT = 264117.
ARID 1972	SAMT = 252601.	GROF = 123010.	FINT = 114788.
ARID 1973	SAMT = 454079.	GROF = 224069.	FINT = 220474.
ARID 1974	SAMT = 680664.	GROF = 496711.	FINT = 189977.
ARID 1975	SAMT = 671648.	GROF = 285277.	FINT = 374804.
ARID 1976	SAMT = 1912929.	GROF = 855121.	FINT = 1107449.
ARID 1977	SAMT = 394666.	GROF = 143013.	FINT = 247977.
ARID 1978	SAMT = 584456.	GROF = 379264.	FINT = 221034.
ARID 1979	SAMT = 1303037.	GROF = 1310722.	FINT = 219714.
ARID 1980	SAMT = 788469.	GROF = 610682.	FINT = 213005.

VETRARLYKLAR/Discharge - suspended load relations. Winter

$$Y = 0.11102E-04 * Q^{**} 3.23636$$

$$Y = 0.13448E-05 * Q^{**} 3.59655$$

$$Y = 0.24198E-04 * Q^{**} 2.77528$$

SUMARLYKLAR/Discharge - suspended load relations. Summer

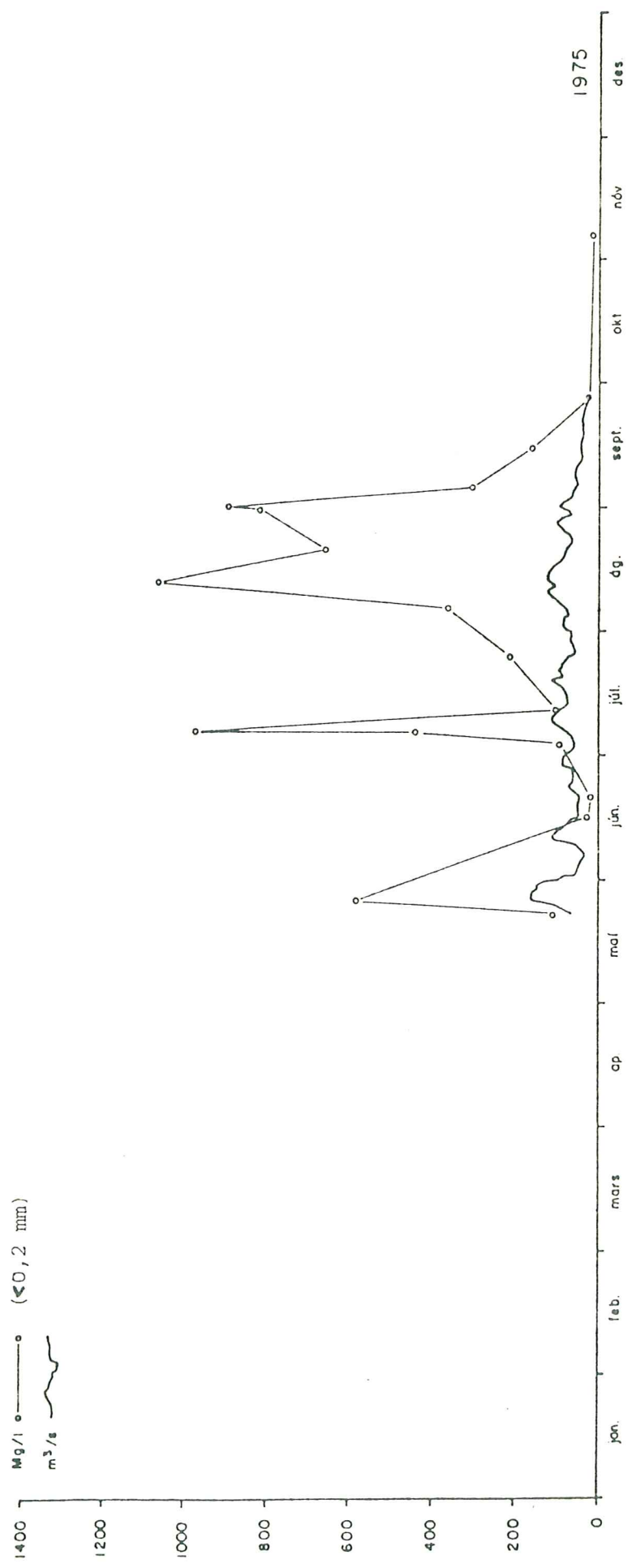
$$Y = 0.19881E-05 * Q^{**} 3.91195$$

$$Y = 0.11249E-05 * Q^{**} 3.78517$$

$$Y = 0.49222E-06 * Q^{**} 4.13489$$

1E VOD-MJ-631-SZ
83 03 0455 00

FIGURE 1



EXPLANATIONS OF TABLE OF GRAIN IDENTIFICATION (TABLE 4)

HEADINGS OF COLUMNS

- 1 DATE OF SAMPLING.
- 2 RESEARCH NO.
- 3 THIN SECTION NO.
- 4 FRACTIONS, EXPLAINED BELOW.
- 5 DENSITY.
- 6 GRAIN IDENTIFICATION GROUPS, EXPLAINED BELOW.
- 7 NUMBER OF IDENTIFIED GRAINS.
- 8 TYPE OF SAMPLE, EXPLAINED BELOW.
- 9 NOTES, (17: contaminated by tephra from an eruption).

FRACTIONS, COLUMN 4

- 1 0.02 - 0.06 MM
- 2 0.06 - 0.1 -
- 3 0.1 - 0.2 -
- 4 0.2 - 0.4 -
- 5 0.4 - 0.9 -
- 6 0.9 - 2.0 -
- 7 2.0 - 4.0 -

GRAIN IDENTIFICATION GROUPS, COLUMN 6

- A OPAQUE.
- B DARK GLASS, INDEX OF REFRACTION HIGHER THAN 1.55, (Basaltic)
- C LIGHT GLASS, INDEX OF REFRACTION LOWER THAN OR EQUAL 1.55, (Acidic)
- D ALTERED GLASS.
- E GLASSY BASALT WITH SHEAF-LIKE PYROXENE.
- F BASALT AND ANDESITE.
- G ALTERED BASALT AND ANDESITE.
- H RHYOLITE.
- I SEDIMENTARY ROCKS.
- J PLAGIOCLASE.
- K PYROXENE.
- L OLIVINE.
- M QUARTZ.
- N TEALITES AND ANALCIME.
- O CALCITE.
- P EPIDOTE.
- Q PREHNITE.
- R OTHERS.

SAMPLE TYPES, COLUMN 8

- F SUSPENDED LOAD TAKEN INTO BOTTLES WITHOUT A SAMPLER.
- S SUSPENDED LOAD TAKEN INTO BOTTLES IN A SAMPLER.
- S1 SUSPENDED LOAD TAKEN INTO BOTTLES IN A SAMPLER ON SEVERAL VERTICALS, USUALLY 3 - 5.
- S2 SIMILAR TO S1, BUT TAKEN FROM ONLY 1, OR EXCEPTIONALLY 2 VERTICALS.
- S3 SUSPENDED LOAD TAKEN INTO BOTTLES IN A SAMPLER NEAR RIVER BANKS.
- I UNDISSOLVED SOLIDS FROM ICE FORMED IN RIVERS.

TABLE 4. Grain identification

TEKID	RANN- SOKNAR NÚMUR	PUNN- SNEIDAR NÚMUR	KORNA- STÆRD	EDLIS- MASSI	BERGFLOKKAGREINING %																	BERG- GREIND KORN	TEG- UND SYNIS	ATH	
					A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q				R
1	2	3	4	5	6																	7	8	9	
BLANDA GUDLAUGSSTADIR																									
1965-80	E1190	3235	5	2.91	1	30	8	8	6	42	1	2	1	1									413	S	
1965-80	E1191	3234	4	2.84	0	43	8	8	5	30	1	2	1	2	0	1	0						1027	S	
1965-80	E1192	3236	3	2.84	1	52	5	7	3	25	0	0	1	3	0	0	0	0	0	0			1027	S	
1965-80	E1193	3237	2	2.87	2	48	6	7	2	30	0	1	3	1	0	1	0						1014	S	
1964-78	E1180	8546	1	2.87	2	43	3	5	4	26	0		8	9	0	0							1011	FS	
70.05.07	F220	7086	2		9	40	3	3	2	26	0	0	0	7	9	0	0	0					1059	F	17
70.05.07	F220	7085	1		4	23	4	2	1	10			13	43	0	0	0	0					1024	F	17