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STATIONS, 1984

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This report presents precipitation chemistry data for 1984, based on samples collected at 22 background stations in Norway. Air measurements of sulphur dioxide and particulate sulphate were made at 8 of the stations.

Ten of the stations were operated as part of the Norwegian national environmental monitoring programme (Statlig program for forurensnings-
overvåking) which started in 1981 with The State Pollution Control Authority (SFT) as responsible for the co-ordination and implementation of the programme. Six of these stations are also part of the Co-operative programme for Monitoring and Evaluation of the Long Range Transmission of Air Pollution in Europe (EMEP), in operation from 1978.

The present data report is a supplement to the SFT yearly report for 1984 (Statens forurensningstilsyn, 1985), and includes the precipitation chemistry data from twelve supplementary NILU-stations. Of these, four stations have daily sampling (Lista, Vatnedalen, Vikedal, Løken), six have weekly sampling (Lillestrøm, Kaupanger, Gaular, Alterneset, Skrova, Vardø, Kise (week)) and two stations have monthly sampling (Ås and Kise (month)).

The air samples of sulphur dioxide and particulate sulphate are made daily, except at Vardø and Skrova with sampling sequence 2+2+3 days in succession.

The Norwegian background measurements of zinc, cadmium and lead in precipitation at 4 stations are only presented in the SFT-report. Reference is also made to the SFT report for description of analytical methods and the discussion of the data.

The data are presented as monthly and annual values. The daily values are available at NILU.

At the monthly precipitation sampling stations at Ås and Kise the monthly mean concentrations of the main components are generally higher than measured at the stations with daily precipitation sampling. This is probably due to greater dry deposition from local and long-range transported pollutants when using monthly bulk sampling. In addition, the evaporation from the bulk sampler may cause higher concentrations particularly in the summer season and with small precipitation amounts.

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Statens forurensnings-
tilsyn

Overvåking av langtransportert forurenset
luft og nedbør. Årsrapport 1984.
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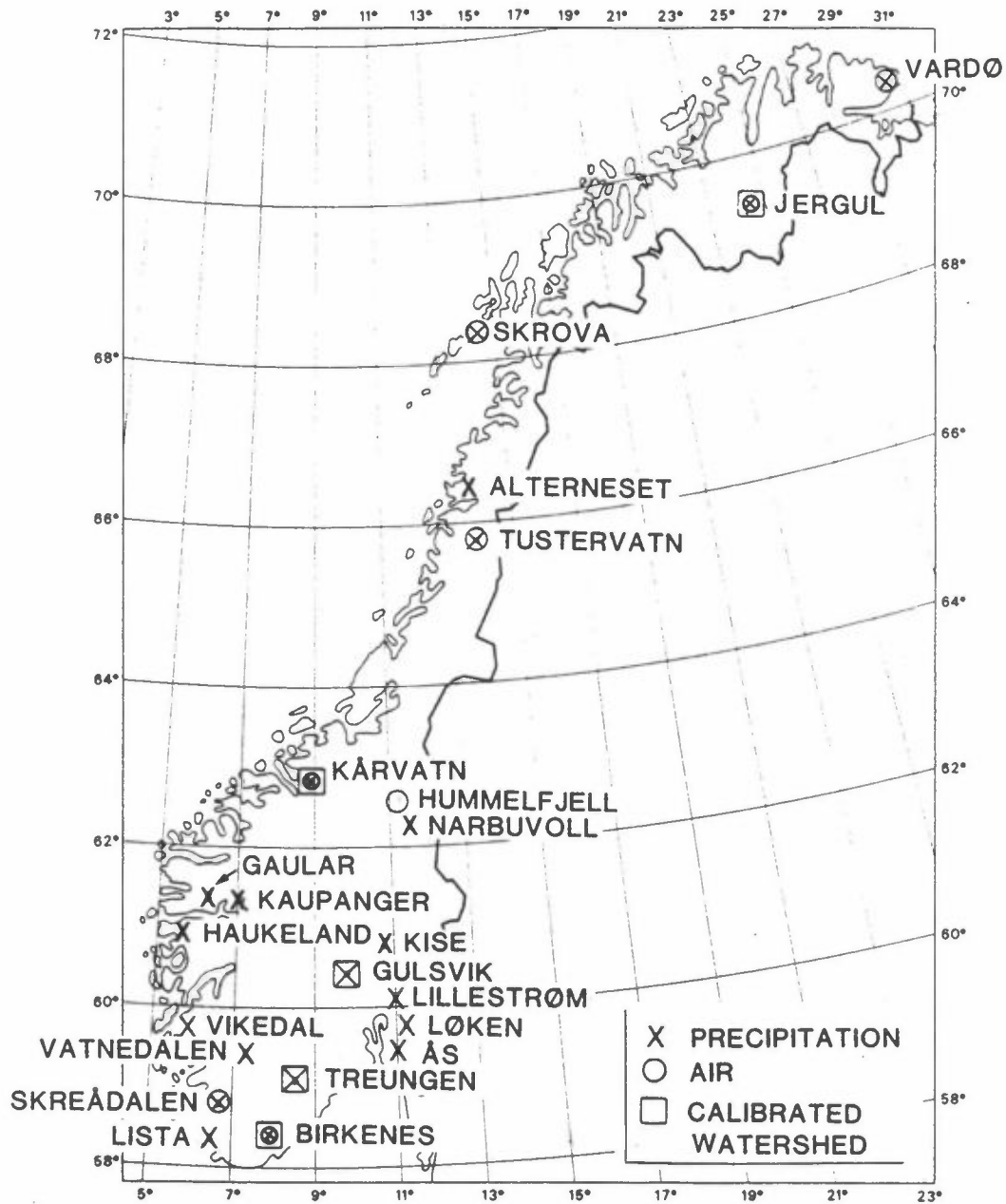


Figure 1: Norwegian background stations, 1984.

Table 1: Background stations in Norway 1984. The stations sites are shown in Figure 1.

Station	County	Precipiti. normal * 1931-60 mm	m.a.s.l.	Lat. (N)	Long. (E)	Start	Measurements			Station adress	
							Air	Precipitation			
								D	W		M
Birkenes *	Aust-Agder	(1305)	190	58° 23' 0"	8° 15' 0"	Nov 71	x	x	x	Håvar Aage Lien	4760 Birkeland
Skreådalen	Vest-Agder	2015	475	58° 49' 0"	6° 43' 0"	Nov 71	x	x		Åsa Skreå	4442 Dorgefoss
Treungen (Storgama)	Telemark	(1005)	270	59° 01' 0"	8° 32' 0"	Sep 73		x		P.Ø. Stokstad	4860 Treungen
Gulsvik (Langtjern)	Buskerud	(760)	260	60° 22' 0"	9° 39' 0"	Sep 74		x		K. Sønsteby	3530 Gulsvik
Narbuvoll	Hedmark	(534)	768	62° 21' 0"	11° 28' 0"	Apr 77		x	x	T. Narbuvoll	2554 Narbuvollen
Hummelfjell *	Hedmark	-	1539	62° 27' 0"	11° 16' 0"	Mar 73	x			T. Hernes	2550 Os i Østerdalen
Haukeland	Hordaland	3225	204	60° 49' 0"	5° 35' 0"	Aug 81		x		H. Haukeland	5198 Matredal
Kårvatn (Todalen) *	Møre og Romsdal	(1467)	210	62° 47' 0"	8° 53' 0"	Feb 78	x	x	x	Erik Halle	6645 Todalen
Tustervatn	Nordland	1100	439	65° 50' 0"	13° 55' 0"	Des 71	x	x		A. Tustervatn	8647 Bleikvasslia
Jergul *	Finmark	(370)	255	69° 24' 0"	24° 36' 0"	Nov 76	x	x	x	K. Holmestrand	9732 Jergul
Lista	Vest-Agder	1049	13	58° 06' 0"	6° 34' 0"	Nov 71		x		Kåre Nordberg	4653 Borhaug
Vatnedalen	Aust-Agder	(945)	800	59° 28' 0"	7° 23' 0"	Nov 73		x		Lilly Vatnedalen	4694 Bykle
Løken	Akershus	(774)	150	59° 48' 0"	11° 27' 0"	Feb 72		x		Minni Hauer	1960 Løken i Høland
Vikedal II	Rogaland	(2650)	60	59° 32' 0"	5° 58' 0"	Jan 84		x		Magne Hunseid	4210 Vikedal
Lillestrøm	Akershus	(810)	100	59° 58' 0"	11° 02' 0"	Sep 83			x	NILU	2000 Lillestrøm
Kaupanger	Sogn og Fjordane	(910)	500	61° 09' 0"	7° 06' 0"	Jul 83			x	Harald Haukås	5880 Kaupanger
Alterneset	Nordland	(1432)	10	66° 18' 0"	11° 01' 0"	Des 83			x	T. Soløy	8600 Mo, Jernverket
Gaular	Sogn og Fjordane	(1820)	240	61° 19' 0"	6° 13' 0"	Des 83			x	Oline Oppedal	6836 Viksdalen
Skrova *	Nordland	742	18	68° 09' 0"	14° 39' 0"	Sep 82	x		x	Skrova Fyr	8320 Skrova
Vardø *	Finmark	(545)	60	70° 23' 0"	31° 09' 0"	Sep 82	x		x	Vardø Fyr	9950 Vardø
Ås	Akershus	785	95	59° 40' 0"	10° 47' 0"	1954			x	Margit Hopland	1432 Ås
Kise	Hedmark	(534)	128	60° 46' 0"	10° 48' 0"	1956			x	Statens forsøksgård	2350 Nes i Hedmark

D: Daily sampling

W: Weekly sampling

M: Monthly sampling

Analyses:

Air, daily and three times

a week (see text)

Precipitation D : SO₂ and SO₄

Precipitation W1 : Amount (mm), pH, conductivity, SO₄, NH₄, NO₃, Ca, (K), Mg, Cl, (Na)

Precipitation W2 : Amount (mm), pH, conductivity, SO₄, NH₄, NO₃, Ca, (K), Mg, Cl, (Na)

Precipitation M : Amount (mm), pH, conductivity, SO₄, NH₄, NO₃, Ca, K, Mg, Cl, Na

* Precipitation stations for the Norwegian Meteorological Institute (DNMI)

() the nearest DNMI station

Table 2: Annual weighted mean concentrations ($\mu\text{ekv/l}$) of precipitation components and the ion balances, measured at the Norwegian background stations, 1984.

Station	H^+	SO_4^{2-}	NO_3^-	NH_4^+	Ca^{2+}	K^+	Sea salt content				Total ion balance $\Sigma \text{ cation} / \Sigma \text{ anion}$
							Mg^{2+}	Na^+	Cl^-	SO_4^{2-}	
Birkenes	58	68	40	45	10	5	15	67	78	8	1.03
Skreådalen	26	28	17	16	8		17		87	9	
Treungen	54	48	26	19	7		4		19	2	
Gulsvik	39	54	29	41	12		3		7	1	
Narbuvoll	19	29	14	26	10		3		6	1	
Haukeland	23	26	12	20	10		18		89	10	
Kårvatn	9	15	7	13	11		14		69	8	
Tustervatn	14	15	6	6	6		8		41	4	
Jergul	32	31	10	16	7		3		7	1	
Lista	53	57	44	34	43		174		873	91	
Vatnedalen	26	25	13	10	8		6		31	3	
Vikedal II	27	32	17	19	12	4	21	87	104	11	1.04
Løken	36	57	35	54	15		8		34	4	
Lillestrøm	39	65	32	44	18	6	5	19	21	3	1.08
Kaupanger	16	20	8	9	6	5	8	39	43	4	1.11
Gualar *	18	20	9	12	6	4	12	50	56	6	1.12
Alterneset	11	27	8	9	19	3	15	56	63	8	1.07
Vardø	14	102	42	125	132		559		2899	295	
Kise (weekly)	23	49	25	40	15	9	4	6	6	2	1.18
Kise (monthly)	42	79	31	47	23	4	5	7	6	2	1.08
Ås	34	93	48	72	36	21	19	59	67	10	1.11

* December is missing.

Table 3: Annual weighted mean concentrations of precipitation components at the Norwegian background stations, 1984.

Station	H ⁺ µekv/l	SO ₄ [*] -S mg S/l	NO ₃ -N mg N/l	NH ₄ -N mg N/l	Ca mg/l	K mg/l	Mg mg/l	Na mg/l	Cl mg/l
Birkenes	58	1.09	0.57	0.63	0.21	0.21	0.19	1.55	2.78
Skreådalen	26	0.46	0.24	0.23	0.16		0.21		3.09
Treungen	54	0.77	0.36	0.27	0.15		0.05		0.67
Gulsvik	39	0.87	0.40	0.58	0.25		0.04		0.26
Narbuvoll	19	0.47	0.20	0.36	0.21		0.04		0.23
Haukeland	23	0.42	0.16	0.28	0.20		0.22		3.14
Kårvatn	9	0.24	0.10	0.18	0.22		0.18		2.43
Tustervatn	14	0.24	0.09	0.09	0.12		0.10		1.46
Jergul	32	0.50	0.15	0.22	0.14		0.03		0.24
Lista	53	0.92	0.61	0.47	0.86		2.12		30.96
Vatnedalen	26	0.40	0.18	0.13	0.16		0.08		1.10
Vikedal II	27	0.51	0.24	0.27	0.24	0.15	0.25	2.01	3.67
Løken	36	0.91	0.49	0.76	0.30		0.10		1.19
Lillestrøm	39	1.04	0.45	0.62	0.36	0.23	0.06	0.43	0.75
Kaupanger	16	0.31	0.12	0.12	0.12	0.19	0.10	0.90	1.53
Gaular	18	0.33	0.13	0.17	0.13	0.15	0.14	1.15	2.00
Alterneset *	11	0.43	0.11	0.13	0.39	0.11	0.18	1.29	2.25
Vardø	14	1.64	0.58	1.75	2.65		6.80		102.79
Kise (weekly)	23	0.79	0.36	0.56	0.31	0.34	0.05	0.13	0.22
Kise (monthly)	42	1.27	0.44	0.66	0.47	0.14	0.06	0.17	0.20
Ås	34	1.50	0.68	1.01	0.73	0.82	0.23	1.35	2.37

* December is missing.

Table 4: The wet deposition of precipitation components at the Norwegian background stations, 1984.

Station	H ⁺ meq/m ²	SO ₄ ²⁻ * g S/m ²	NO ₃ ⁻ -N g N/m ²	NH ₄ ⁺ -N g N/m ²	Ca g/m ²	K g/m ²	Mg g/m ²	Na g/m ²	Cl g/m ²
Birkenes	93	1.75	0.91	1.00	0.34	0.34	0.30	2.48	4.46
Skreådalen	46	0.80	0.42	0.40	0.28		0.37		5.45
Treungen	64	0.92	0.44	0.32	0.18		0.06		0.80
Gulsvik	37	0.82	0.38	0.55	0.24		0.03		0.25
Narbuvoll	14	0.34	0.14	0.26	0.15		0.03		0.17
Haukeland	65	1.16	0.45	0.78	0.57		0.62		8.76
Kårvatn	8	0.22	0.09	0.17	0.20		0.16		2.22
Tustervatn	15	0.25	0.09	0.09	0.13		0.10		1.54
Jergul	11	0.17	0.05	0.08	0.05		0.01		0.08
Lista	53	0.92	0.61	0.47	0.86		2.12		31.04
Vatnedalen	20	0.31	0.14	0.10	0.12		0.06		0.84
Vikedal II	52	0.98	0.46	0.52	0.46	0.29	0.49	3.88	7.10
Løken	27	0.68	0.37	0.57	0.22		0.07		0.89
Lillestrøm	29	0.77	0.33	0.46	0.27	0.17	0.05	0.32	0.55
Kaupanger	12	0.23	0.09	0.09	0.09	0.14	0.08	0.66	1.13
Gaular	25	0.46	0.18	0.24	0.19	0.22	0.20	1.61	2.81
Alterneset *	12	0.44	0.12	0.13	0.40	0.11	0.18	1.31	2.29
Vardø	4	0.46	0.16	0.48	0.74		1.90		28.45
Kise (weekly)	15	0.50	0.22	0.35	0.19	0.21	0.03	0.08	0.14
Kise (monthly)	19	0.58	0.20	0.30	0.21	0.06	0.03	0.08	0.09
Ås	19	0.86	0.39	0.58	0.42	0.47	0.13	0.77	1.36

* December is missing.

Table 5: Monthly and annual weighted mean values of pH in precipitation at the Norwegian background stations, 1984.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	4.22	3.97	4.23	3.96	4.14	4.27	4.11	3.92	4.39	4.48	4.18	4.29	4.24
Skreådalen	4.89	4.61	4.74	4.25	4.27	4.19	4.01	4.70	4.55	4.81	4.58	4.67	4.59
Treungen	4.43	4.08	4.20	3.94	4.18	4.09	4.08	4.28	4.41	4.43	4.22	4.25	4.27
Gulsvik	4.34	4.16	4.39	4.04	4.45	4.57	4.43	4.23	4.53	4.59	4.34	4.46	4.41
Narbuvooll	4.76	4.38	4.77	4.17	4.66	5.15	5.14	4.71	4.80	4.83	4.50	4.54	4.73
Haukeland	4.76	4.42	5.19	4.44	4.25	4.26	4.47	4.99	4.48	4.91	4.64	4.70	4.63
Kårvatn	5.07	5.01	5.08	4.81	4.91	4.68	5.21	5.37	4.76	5.41	4.89	5.46	5.04
Tustervatn	5.09	4.85	5.23	4.95	4.62	4.86	4.83	4.72	4.46	4.95	4.88	5.01	4.85
Jergul	4.52	4.49	4.82	4.19	4.46	4.23	4.50	4.49	4.73	5.01	4.84	4.34	4.50
Lista	4.35	4.15	4.12	3.87	4.10	4.05	3.77	4.42	4.50	4.56	4.24	4.30	4.28
Vatnedalen	4.95	4.52	4.60	3.89	4.45	4.32	4.28	4.50	4.60	4.81	4.76	4.73	4.59
Vikedal II	4.88	4.85	4.83	4.20	4.56	4.22	4.09	4.70	4.51	4.80	4.70	4.69	4.57
Løken	4.55	4.21	4.25	4.14	4.34	4.86	5.58	4.76	4.52	4.50	4.12	4.26	4.45
Lillestrøm	4.44	4.45	4.32	3.99	5.50	4.44	4.64	4.60	4.62	4.38	4.24	4.35	4.41
Kaupanger	5.04	4.81	5.17	4.73	4.28	4.57	4.38	4.73	4.73	5.17	4.57	4.82	4.79
Gaular	4.74	4.59	5.03	4.64	4.44	4.57	4.43	5.17	4.77	5.06	4.58	4.96	4.75
Alterneset	5.00	4.86	5.28	5.07	4.48	5.02	4.97	4.85	4.53	5.12	6.23	-	4.94
Skrova	4.52	4.64	4.51	4.38	4.46	4.64	4.74						(4.56)
Vardø	4.18	4.18	4.57	4.43	5.10	5.99	6.21	5.39	5.17	4.61	4.86	4.74	4.86
Kise (weekly)	4.28	3.92	4.33	4.55	4.83	4.67	4.91	4.48	5.15	4.80	4.35	4.52	4.63
Kise (monthly)	4.40	4.20	4.50	3.90	4.30	4.25	4.80	4.45	4.65	4.40	4.26	4.26	4.37
Ås	4.10	3.65	4.30	4.20	6.40	4.25	4.80	7.10	4.94	4.80	4.32	4.38	4.47

Table 6: Monthly and annual weighted mean values of excess sulphate (SO₄) in precipitation at the Norwegian background stations, 1984.
Unit: mg S/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.87	1.73	1.45	2.25	1.89	1.13	1.47	1.38	0.78	0.56	1.40	1.02	1.09
Skreådalen	0.17	0.26	0.35	1.14	1.41	0.92	1.55	0.25	0.47	0.28	0.54	0.37	0.46
Treungen	0.36	1.10	0.87	2.05	1.25	1.30	1.02	0.58	0.58	0.48	1.02	0.75	0.77
Gulsvik	0.46	0.89	1.08	3.10	2.28	1.10	0.77	0.94	0.60	0.43	0.82	0.53	0.87
Narbuvooll	0.20	0.48	0.30	1.86	1.37	0.22	0.37	0.63	0.37	0.40	0.45	0.21	0.47
Haukeland	0.20	0.65	0.30	0.54	1.62	0.52	1.15	0.16	0.78	0.21	0.53	0.29	0.42
Kårvatn	0.14	0.20	0.21	0.35	0.39	0.22	0.27	0.42	0.35	0.10	0.33	0.10	0.24
Tustervatn	0.13	0.19	0.17	0.23	0.75	0.16	0.28	0.25	0.59	0.23	0.19	0.13	0.24
Jergul	0.24	0.46	0.19	1.53	0.83	0.45	0.38	0.68	0.44	0.23	0.18	0.41	0.50
Lista	0.92	0.89	1.85	1.73	1.53	1.39	2.79	0.71	0.60	0.53	1.32	0.73	0.92
Vatnedalen	0.10	0.31	0.43	1.88	1.09	0.83	0.78	0.34	0.41	0.21	0.40	0.28	0.40
Vikedal II	0.19	0.39	0.39	1.15	1.05	0.93	1.26	0.46	0.55	0.30	0.50	0.32	0.51
Løken	0.45	1.00	0.81	3.91	2.40	0.78	0.50	0.75	0.70	0.70	1.23	0.91	0.91
Lillestrøm	0.88	1.01	1.14	3.85	1.96	0.55	0.46	1.05	0.75	0.86	1.60	1.25	1.04
Kaupanger	0.11	0.30	0.27	0.46	1.55	0.69	0.51	0.25	0.53	0.14	0.60	0.21	0.31
Gaular	0.17	0.42	0.21	0.40	0.89	0.40	0.57	0.27	0.45	0.16	0.53	0.23	0.33
Alterneset	0.31	0.52	0.40	0.57	1.26	0.32	0.26	0.28	1.04	0.33	1.05	-	0.43
Skrova	0.84	1.00	0.88	1.42	1.50	0.27	0.47						(0.86)
Vardø	3.82	2.90	2.93	3.53	3.90	1.24	0.83	0.89	1.29	0.78	2.57	2.07	1.64
Kise (weekly)	0.68	1.59	0.97	3.59	1.85	0.59	0.30	0.70	0.52	0.64	0.83	0.60	0.79
Kise (monthly)	1.05	2.90	1.19	5.82	3.15	0.72	0.41	1.11	0.89	1.24	1.54	1.32	1.27
Ås	2.38	5.98	5.83	4.03	2.48	0.97	0.36	7.51	0.73	0.82	1.13	1.02	1.50

Table 7: Monthly and annual weighted mean values of nitrate (NO_3^-) in precipitation at the Norwegian background stations, 1984.
Unit: mg N/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.52	0.86	0.81	1.19	0.53	0.39	0.47	0.67	0.32	0.37	0.76	0.63	0.57
Skreådalen	0.08	0.19	0.37	0.60	0.35	0.29	0.64	0.12	0.23	0.19	0.30	0.25	0.24
Treungen	0.25	0.69	0.73	0.99	0.36	0.37	0.32	0.17	0.29	0.26	0.45	0.48	0.36
Gulsvik	0.40	0.74	0.83	1.18	0.67	0.29	0.25	0.40	0.23	0.22	0.44	0.45	0.40
Narbuvoll	0.20	0.43	0.22	0.55	0.33	0.07	0.12	0.18	0.10	0.15	0.28	0.37	0.20
Haukeland	0.06	0.37	0.10	0.19	0.32	0.14	0.31	0.05	0.12	0.12	0.25	0.16	0.16
Kårvatn	0.06	0.08	0.05	0.07	0.12	0.09	0.18	0.15	0.06	0.07	0.20	0.06	0.10
Tustervatn	0.06	0.10	0.06	0.06	0.22	0.05	0.08	0.07	0.14	0.09	0.17	0.12	0.09
Jergul	0.27	0.31	0.12	0.47	0.13	0.09	0.09	0.17	0.08	0.09	0.16	0.50	0.15
Lista	0.60	0.61	1.31	1.38	0.45	0.54	1.98	0.58	0.38	0.43	0.84	0.59	0.61
Vatnedalen	0.06	0.28	0.26	1.02	0.28	0.25	0.29	0.12	0.21	0.11	0.18	0.20	0.18
Vikedal II	0.07	0.17	0.19	0.58	0.24	0.29	0.46	0.21	0.18	0.19	0.27	0.20	0.24
Løken	0.32	0.69	0.65	1.84	0.77	0.22	0.20	0.33	0.50	0.39	0.88	0.61	0.49
Lillestrøm	0.43	0.73	0.76	1.90	0.60	0.14	0.13	0.29	0.33	0.32	0.89	0.66	0.45
Kaupanger	0.06	0.18	0.09	0.19	0.37	0.17	0.12	0.03	0.04	0.07	0.31	0.15	0.12
Gaular	0.06	0.20	0.07	0.10	0.26	0.12	0.18	0.10	0.11	0.08	0.25	0.14	0.13
Alterneset	0.10	0.15	0.09	0.11	0.32	0.07	0.07	0.07	0.22	0.10	0.40	-	0.11
Skrova	0.29	0.65	0.22	0.52	0.38	0.13	0.19						(0.34)
Vardø	1.67	2.83	1.16	1.36	0.59	0.18	0.21	0.21	0.34	0.82	0.63	0.96	0.58
Kise (weekly)	0.55	1.15	0.68	1.32	0.54	0.18	0.17	0.32	0.23	0.27	0.54	0.46	0.36
Kise (monthly)	0.64	1.45	0.70	1.57	0.76	0.20	0.11	0.36	0.33	0.46	0.62	0.77	0.44
Ås	1.42	3.26	2.32	2.38	0.69	0.29	0.16	0.71	0.25	0.50	0.90	0.71	0.68

Table 8: Monthly and annual weighted mean values of ammonium (NH_4^+) in precipitation at the Norwegian background stations, 1984.
Unit: mg N/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.54	0.89	0.92	1.42	1.11	0.57	0.70	0.56	0.35	0.33	0.93	0.52	0.63
Skreådalen	0.11	0.09	0.33	0.86	0.66	0.35	0.88	0.10	0.22	0.12	0.21	0.21	0.23
Treungen	0.13	0.46	0.39	1.20	0.56	0.62	0.35	0.20	0.24	0.07	0.23	0.27	0.27
Gulsvik	0.31	0.72	0.70	2.26	1.57	1.00	0.70	0.85	0.23	0.14	0.39	0.38	0.58
Narbuvoll	0.04	0.16	0.13	0.62	0.90	0.82	0.97	0.45	0.14	0.16	0.04	0.06	0.36
Haukeland	0.03	0.32	0.09	0.29	0.99	0.21	2.82	0.12	0.20	0.06	0.19	0.09	0.28
Kårvatn	0.02	0.05	0.05	0.12	0.26	0.05	0.52	0.64	0.05	0.04	0.02	0.04	0.18
Tustervatn	0.08	0.09	0.06	0.08	0.50	0.05	0.13	0.10	0.08	0.06	0.03	0.05	0.09
Jergul	0.04	0.12	0.03	0.91	0.25	0.13	0.12	0.61	0.15	0.04	0.02	0.07	0.22
Lista	0.44	0.29	1.23	1.02	0.55	0.63	1.71	0.43	0.31	0.18	0.87	0.46	0.47
Vatnedalen	0.05	0.19	0.23	0.93	0.55	0.29	0.31	0.05	0.07	0.02	0.07	0.11	0.13
Vikedal II	0.06	0.17	0.18	0.80	0.62	0.47	1.06	0.39	0.15	0.16	0.12	0.13	0.27
Løken	0.33	0.74	0.47	2.99	1.36	1.44	0.99	0.75	0.37	0.38	0.93	0.63	0.76
Lillestrøm	0.52	0.68	0.63	2.82	1.28	0.31	0.28	0.84	0.45	0.38	1.07	0.69	0.62
Kaupanger	0.08	0.23	0.17	0.36	0.78	0.35	0.07	0.04	0.06	0.03	0.21	0.07	0.12
Gaular	0.03	0.16	0.13	0.19	0.82	0.09	0.52	0.42	0.15	0.06	0.18	0.07	0.17
Alterneset	0.10	0.16	0.08	0.22	0.67	0.04	0.10	0.09	0.14	0.07	0.32	-	0.13
Skrova	0.08	0.20	0.24	0.60	0.69	0.18	0.33						(0.30)
Vardø	0.79	1.16	- *	2.83	3.61	3.18	2.07	1.03	1.03	0.35	1.68	0.99	1.75
Kise (weekly)	0.44	0.76	0.47	1.80	1.41	0.30	0.25	0.76	0.46	0.54	0.42	0.48	0.56
Kise (monthly)	0.47	1.50	0.72	3.60	1.68	0.20	0.21	0.47	0.40	0.86	0.76	0.76	0.66
Ås	1.04	2.34	3.80	4.00	3.00	0.40	0.16	3.00	0.50	0.39	0.78	0.74	1.01

* Small amount of precipitation.

Table 9: Monthly and annual weighted mean values of calcium (Ca) in precipitation at the Norwegian background stations, 1984.
Unit: mg/l

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.18	0.23	0.25	0.33	0.54	0.16	0.58	0.14	0.09	0.08	0.35	0.16	0.21
Skreådalen	0.30	0.15	0.21	0.22	0.44	0.12	0.40	0.07	0.07	0.11	0.16	0.10	0.16
Treungen	0.11	0.12	0.14	0.36	0.25	0.15	0.35	0.06	0.06	0.07	0.36	0.10	0.15
Gulsvik	0.09	0.12	0.80	0.73	0.99	0.29	0.23	0.20	0.08	0.06	0.12	0.08	0.25
Narbuvoll	0.16	0.18	0.16	0.78	0.78	0.14	0.11	0.33	0.11	0.11	0.12	0.15	0.21
Haukeland	0.32	0.25	0.58	0.08	0.24	0.08	0.57	0.12	0.16	0.15	0.28	0.15	0.20
Kårvatn	0.42	0.19	0.67	0.14	0.24	0.11	0.09	0.10	0.05	0.17	0.38	0.28	0.22
Tustervatn	0.23	0.21	0.10	0.10	0.33	0.11	0.10	0.07	0.05	0.10	0.14	0.12	0.12
Jergul	0.16	0.20	0.12	0.19	0.25	0.14	0.08	0.18	0.06	0.12	0.13	0.23	0.14
Lista	2.39	0.86	0.61	0.48	0.40	0.28	1.17	0.60	0.23	0.99	1.11	0.49	0.86
Vatnedalen	0.14	0.08	0.10	0.37	0.48	0.12	0.15	0.08	0.30	0.08	0.32	0.12	0.16
Vikedal II	0.43	0.24	0.28	0.23	0.52	0.20	0.24	0.22	0.09	0.15	0.53	0.13	0.24
Løken	0.25	0.23	0.26	1.81	1.70	0.22	0.16	0.30	0.16	0.10	0.25	0.16	0.30
Lillestrøm	0.26	0.22	0.95	1.41	1.49	0.16	0.22	0.37	0.25	0.10	0.50	0.59	0.36
Kaupanger	0.13	0.13	0.25	0.12	0.57	0.08	0.19	0.08	0.08	0.07	0.18	0.12	0.12
Gaular	0.28	0.18	0.23	0.10	0.23	0.08	0.07	0.11	0.10	0.10	0.14	0.18	0.13
Alterneset	0.53	0.36	0.48	0.71	0.57	0.59	0.20	0.14	0.36	0.24	2.00	-	0.39
Skrova	2.32	4.06	1.24	1.35	2.02	0.69	0.45						(1.84)
Varde	8.68	4.28	6.84	4.15	2.95	1.48	1.56	0.84	1.09	3.35	6.19	3.34	2.65
Kise (weekly)	0.17	0.35	0.41	2.00	1.17	0.18	0.20	0.40	0.18	0.10	0.13	0.11	0.31
Kise (monthly)	0.90	1.80	0.90	1.80	1.60	0.30	0.20	0.50	0.30	0.10	0.30	0.30	0.47
Ås	1.70	1.90	2.50	2.00	1.90	0.30	0.10	2.80	0.30	0.60	0.50	0.30	0.73

Table 10: Monthly and annual weighted mean values of potassium (K) in precipitation at the Norwegian background stations, 1984
Unit: mg/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.33	0.26	0.16	0.20	0.21	0.29	0.24	0.20	0.14	0.13	0.28	0.17	0.21
Vikedal II	0.31	0.13	0.24	0.10	0.34	0.25	0.27	0.17	0.06	0.15	0.11	0.11	0.15
Lillestrøm	0.24	0.17	0.20	0.38	0.22	0.17	0.50	0.34	0.30	0.08	0.29	0.21	0.23
Kaupanger	0.23	0.37	0.31	0.16	0.46	0.37	0.26	0.21	0.24	0.05	0.17	0.17	0.19
Gaular	0.51	0.13	0.21	0.06	0.17	0.19	0.17	0.10	0.20	0.12	0.08	0.16	0.15
Alterneset	0.24	0.15	0.07	0.13	0.15	0.10	0.10	0.04	0.07	0.09	0.14	-	0.11
Kise (weekly)	0.21	0.62	0.27	0.55	0.24	0.47	0.20	0.52	0.48	0.28	0.17	0.13	0.34
Kise (monthly)	0.06	0.28	0.05	0.17	0.26	0.14	0.13	0.16	0.11	0.13	0.13	0.17	0.14
Ås	1.20	0.75	1.03	0.35	4.20	0.55	0.14	6.00	0.17	0.63	0.16	0.14	0.82

Table 11: Monthly and annual weighted mean values of magnesium (Mg) in precipitation at the Norwegian background stations, 1984
Unit: mg/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.33	0.27	0.13	0.09	0.09	0.07	0.07	0.04	0.07	0.14	0.33	0.16	0.19
Skreådalen	0.76	0.27	0.16	0.14	0.05	0.05	0.07	0.07	0.05	0.17	0.17	0.07	0.21
Treungen	0.15	0.06	0.04	0.06	0.03	0.04	0.04	0.01	0.02	0.04	0.07	0.04	0.05
Gulsvik	0.03	0.04	0.08	0.08	0.13	0.07	0.03	0.04	0.01	0.02	0.02	0.02	0.04
Narbuvoll	0.04	0.05	0.05	0.09	0.07	0.04	0.06	0.06	0.03	0.01	0.02	0.03	0.04
Haukeland	0.71	0.37	0.51	0.14	0.12	0.07	0.12	0.04	0.18	0.21	0.12	0.20	0.22
Kårvatn	0.45	0.19	0.43	0.12	0.13	0.04	0.05	0.06	0.04	0.15	0.04	0.38	0.18
Tustervatn	0.41	0.32	0.12	0.10	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.14	0.10
Jergul	0.05	0.06	0.03	0.03	0.04	0.06	0.02	0.06	0.01	0.02	0.02	0.06	0.03
Lista	6.58	2.12	0.82	0.76	0.13	0.42	0.96	1.30	0.43	2.88	2.26	1.27	2.12
Vatnedalen	0.27	0.14	0.08	0.11	0.05	0.03	0.03	0.01	0.08	0.04	0.05	0.03	0.08
Vikedal II	0.83	0.25	0.48	0.24	0.15	0.12	0.08	0.18	0.10	0.37	0.21	0.14	0.25
Løken	0.25	0.10	0.03	0.18	0.16	0.10	0.06	0.09	0.03	0.07	0.14	0.08	0.10
Lillestrøm	0.18	0.05	0.03	0.15	0.14	0.03	0.03	0.08	0.03	0.03	0.10	0.10	0.06
Kaupanger	0.31	0.15	0.36	0.11	0.11	0.04	0.03	0.02	0.02	0.04	0.05	0.15	0.10
Gaular	0.42	0.25	0.56	0.12	0.07	0.03	0.04	0.07	0.14	0.12	0.06	0.17	0.14
Alterneset	0.58	0.32	0.14	0.30	0.17	0.13	0.03	0.05	0.08	0.09	0.30	-	0.18
Skrova	6.30	12.46	3.33	3.30	4.67	1.69	0.98						(5.05)
Vardø	23.32	10.28	15.86	10.86	4.39	3.27	3.87	2.08	2.27	9.83	17.36	9.06	6.80
Kise (weekly)	0.05	0.07	0.05	0.43	0.11	0.04	0.02	0.07	0.03	0.03	0.02	0.02	0.05
Kise (monthly)	0.09	0.18	0.10	0.18	0.17	0.04	0.03	0.05	0.02	0.04	0.05	0.08	0.06
Ås	1.65	0.97	0.41	0.27	0.38	0.08	0.03	0.45	0.04	0.18	0.20	0.13	0.23

Table 12: Monthly and annual weighted mean concentration of sodium (Na) in precipitation at the Norwegian background stations, 1984.

Unit: mg/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	2.76	2.23	0.99	0.57	0.31	0.69	0.30	0.22	0.61	1.20	2.69	1.46	1.55
Vikedal II	7.22	2.05	3.91	1.73	0.83	1.04	0.49	1.32	0.91	2.81	1.53	1.23	2.01
Lillestrøm	1.67	0.64	0.37	0.59	0.24	0.07	0.19	0.20	0.13	0.29	0.88	0.76	0.43
Kaupanger	2.58	1.66	3.23	0.91	0.35	0.33	0.28	0.18	0.29	0.39	0.33	1.41	0.90
Gaular	3.65	2.07	4.53	1.35	0.44	0.22	0.21	0.40	0.66	0.85	0.47	1.51	1.15
Alterneset	4.65	2.65	0.93	2.06	0.98	0.63	0.13	0.30	0.48	0.54	0.90	-	1.29
Kise (weekly)	0.29	0.34	0.24	0.20	0.11	0.09	0.11	0.10	0.12	0.13	0.13	0.16	0.13
Kise (monthly)	0.40	0.40	0.20	0.20	0.20	0.05	0.10	0.10	0.20	0.20	0.20	0.40	0.17
Ås	13.00	4.50	2.70	0.70	0.30	0.10	0.10	7.00	0.20	0.60	1.40	1.20	1.35

Table 13: Monthly and annual weighted mean concentrations of chloride (Cl) in precipitation at the Norwegian background stations, 1984.
Unit: mg/l.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	5.15	3.98	1.63	0.88	0.69	0.65	0.58	0.62	1.10	2.16	4.96	2.51	2.78
Skreådalen	10.91	3.96	2.02	2.74	0.34	0.80	0.62	1.10	0.86	2.58	2.58	1.28	3.09
Treungen	2.17	0.91	0.60	0.54	0.11	0.25	0.31	0.10	0.43	0.58	0.80	0.55	0.67
Gulsvik	0.36	0.61	0.49	0.43	0.25	0.31	0.12	0.15	0.24	0.18	0.28	0.27	0.26
Narbuvoil	0.47	0.32	0.42	0.40	0.12	0.28	0.23	0.34	0.18	0.16	0.13	0.26	0.23
Haukeland	10.79	4.97	8.19	2.20	1.38	0.95	0.66	0.65	2.52	2.99	1.52	2.95	3.14
Kårvatn	6.66	2.26	6.63	1.83	1.73	0.50	0.20	0.72	0.68	2.21	0.75	5.36	2.43
Tustervatn	5.92	4.85	1.79	1.44	0.43	0.38	0.14	0.30	0.31	0.32	0.21	2.20	1.46
Jergul	0.52	0.30	0.24	0.32	0.13	0.47	0.11	0.23	0.08	0.23	0.19	0.32	0.24
Lista	101.89	23.07	12.89	9.91	1.19	4.70	8.72	19.94	6.21	42.50	34.42	17.54	30.96
Vatnedalen	4.09	1.76	0.96	1.12	0.36	0.12	0.21	0.25	0.43	0.61	0.71	0.75	1.10
Vikedal II	12.09	3.50	7.45	3.26	1.40	1.58	0.75	2.29	1.65	5.50	2.84	2.19	3.67
Loken	4.14	1.59	0.31	0.78	0.40	0.67	0.28	0.70	0.36	1.04	2.14	1.32	1.19
Lillestrøm	3.04	0.92	0.47	1.23	0.24	0.13	0.28	0.31	0.30	0.55	1.44	1.28	0.75
Kaupanger	4.66	2.74	5.65	1.70	0.70	0.24	0.41	0.31	0.50	0.67	0.39	2.34	1.53
Gaular	6.77	3.55	8.56	1.92	0.82	0.33	0.21	0.44	0.90	1.62	0.77	2.70	2.00
Alterneset	8.39	4.20	1.72	3.75	1.80	1.18	0.23	0.58	0.60	1.00	1.70	-	2.25
Skrova	97.77	187.37	54.78	53.18	66.88	23.13	13.69						(76.45)
Varde	375.65	150.00	-*	159.79	67.20	47.37	57.20	30.82	35.26	135.96	288.97	143.88	102.79
Kise (weekly)	0.55	0.59	0.33	0.50	0.22	0.14	0.13	0.23	0.17	0.21	0.16	0.24	0.22
Kise (monthly)	0.60	0.30	0.20	0.50	0.30	0.10	0.10	0.30	0.10	0.20	0.20	0.40	0.20
As	23.00	7.50	3.30	1.50	0.90	0.20	0.20	9.50	0.40	1.20	2.80	2.00	2.37

* Small amount of precipitation.

Table 14: Monthly and annual amounts of precipitation at the Norwegian background stations, 1984.
Unit: mm. NILU sampler.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year	% of normal
														precipitation DMI 1931-1960
Birkenes	226	76	82	40	70	64	45	23	198	283	253	243	1603	98*
Skreådalen	224	87	34	76	69	83	26	72	143	472	200	277	1762	90
Treungen	131	49	41	20	106	46	42	103	148	222	141	148	1196	114*
Gulsvik	77	34	62	27	63	51	135	49	124	178	92	56	946	113*
Narbuvoil	39	24	25	6	67	90	46	63	123	126	69	49	725	117*
Haukeland	224	178	77	265	55	158	131	300	90	649	273	392	2792	92
Kårvatn	70	70	88	18	49	84	138	85	71	132	35	75	914	79*
Tustervatn	85	90	63	68	23	83	80	178	57	191	51	87	1056	98
Jergul	10	8	21	19	34	50	46	46	42	48	11	8	342	96*
Lista	111	51	19	45	44	53	17	17	148	231	97	169	1002	105
Vatnedalen	111	38	13	12	36	53	50	66	44	174	77	88	762	102*
Vikedal II	83	120	54	124	53	114	82	102	131	484	236	348	1932	85*
Loken	68	30	23	14	41	92	57	34	94	156	57	83	747	107
Lillestrøm	55	18	20	30	29	111	58	34	95	180	48	64	741	106*
Kaupanger	95	37	25	26	13	46	41	78	22	217	70	66	736	109*
Gaular	101	56	35	135	28	97	89	113	38	331	181	197	1400	92*
Alterneset	87	156	75	73	28	61	118	172	31	194	26	-	1020	76*
Skrova	67	65	34	39	39	49	64						(356)	102
Varde	17	5	3	23	7	29	80	40	24	15	13	25	280	97
Kise (weekly)	28	11	15	16	52	108	63	39	97	121	33	46	629	115*
Kise (monthly)	18	4	11	11	38	96	53	34	70	71	30	22	456	115*
As	25	7	18	17	49	76	59	11	86	86	66	73	573	116

* The nearest DMI-sampler

Table 15: Monthly and annual wet deposition of strong acid (H^+) at the Norwegian background stations, 1984.
Unit: meq/m².

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	13.77	8.20	4.83	4.39	5.05	3.47	3.50	2.82	8.15	9.31	16.63	12.55	92.66
Skreådalen	2.88	2.16	0.63	4.31	3.73	5.33	2.59	1.44	3.98	7.39	5.26	5.90	45.60
Treungen	4.48	4.08	2.63	2.25	7.00	3.72	3.49	4.45	5.73	8.30	8.55	8.41	64.46
Gulsvik	3.49	2.31	2.53	2.45	2.26	1.38	5.00	2.89	3.68	4.58	4.24	1.94	36.77
Narbuvoll	0.68	0.99	0.42	0.42	1.45	0.64	0.34	1.22	1.94	1.88	2.15	1.42	13.56
Haukeland	3.88	6.78	0.50	9.67	3.11	8.76	4.46	3.09	2.97	7.95	6.30	7.83	65.30
Kårvatn	0.60	0.67	0.74	0.27	0.59	1.75	0.85	0.36	1.24	0.52	0.44	0.26	8.31
Tustervatn	0.69	1.26	0.37	0.77	0.57	1.14	1.19	3.36	1.96	2.13	0.67	0.84	14.95
Jergul	0.31	0.25	0.31	1.21	1.16	2.95	1.47	1.50	0.78	0.47	0.16	0.37	10.93
Lista	4.93	3.62	1.47	5.98	3.53	4.77	2.89	0.62	4.67	6.39	5.57	8.46	52.91
Vatnedalen	1.24	1.14	0.33	1.59	1.30	2.54	2.64	2.10	1.11	2.67	1.32	1.65	19.63
Vikedal II	1.10	1.68	0.81	7.94	1.46	6.94	6.67	2.05	4.06	7.66	4.77	7.17	52.30
Løken	1.91	1.88	1.28	1.05	1.88	1.26	0.15	0.58	2.83	4.89	4.30	4.56	26.58
Lillestrøm	2.00	1.25	0.98	3.03	0.09	4.07	1.33	0.85	2.27	7.48	2.75	2.81	28.92
Kaupanger	0.87	0.57	0.17	0.49	0.66	1.25	1.70	1.45	0.41	1.47	1.89	1.01	11.93
Gaular	1.86	1.45	0.33	3.10	1.02	2.62	3.31	0.76	0.65	2.90	4.77	2.14	24.91
Alterneset	0.87	2.14	0.39	0.62	0.93	0.59	1.25	2.42	0.90	1.46	0.02	-	11.61
Skrova	2.00	1.50	1.05	1.61	1.34	1.13	1.15						(9.78)
Vardø	1.15	0.31	0.09	0.84	0.06	0.03	0.05	0.16	0.17	0.36	0.17	0.45	3.83
Kise (weekly)	1.50	1.36	0.70	0.44	0.77	2.30	0.77	1.29	0.68	1.91	1.50	1.37	14.59
Kise (monthly)	0.72	0.25	0.34	1.42	1.90	5.37	0.83	1.19	1.56	2.81	1.64	1.21	19.25
Ås	1.98	1.63	0.88	1.07	0.02	4.26	0.93	0.00	0.99	1.36	3.16	3.06	19.34

Table 16: Monthly and annual wet deposition of excess sulphate (SO_4) of the Norwegian background stations, 1984.
Unit: mg S/m².

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	197	131	118	91	131	73	66	32	155	157	355	248	1755
Skreådalen	38	23	12	87	98	76	40	18	67	133	108	102	802
Treungen	47	54	36	40	132	60	43	60	86	108	144	111	919
Gulsvik	35	30	67	83	143	56	104	46	74	76	75	29	819
Narbuvoll	8	11	7	12	91	19	17	39	45	50	31	10	342
Haukeland	46	115	23	143	89	82	151	47	70	136	144	112	1157
Kårvatn	10	14	18	6	19	19	37	35	25	14	11	7	216
Tustervatn	11	17	11	16	18	14	23	44	34	43	10	11	250
Jergul	2	4	4	29	28	22	17	31	18	11	2	3	172
Lista	102	46	36	77	67	74	48	12	88	122	129	123	923
Vatnedalen	11	12	6	23	40	44	39	23	18	36	31	24	306
Vikedal II	16	46	21	143	56	106	104	47	72	146	119	110	985
Løken	30	30	19	56	99	72	28	25	66	109	69	75	678
Lillestrøm	48	18	23	114	57	61	26	35	72	155	77	79	767
Kaupanger	11	11	7	12	20	32	21	20	12	30	42	14	230
Gaular	17	24	8	54	25	38	51	30	17	51	96	45	456
Alterneset	27	81	29	42	35	19	30	48	32	64	27	-	436
Skrova	56	65	30	55	58	13	30						(307)
Vardø	66	14	9	79	27	36	67	35	31	11	32	51	460
Kise (weekly)	19	18	15	56	97	63	19	27	51	77	28	27	497
Kise (monthly)	19	12	13	66	119	69	21	37	62	88	46	29	580
Ås	59	44	102	68	121	74	21	85	63	70	75	75	857

Table 17: Monthly and annual wet deposition of nitrate (NO_3) at the Norwegian background stations, 1984.
Unit: mg N/m^2 .

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	117	65	66	48	37	25	21	16	63	103	191	152	905
Skreådalen	17	17	13	46	25	24	17	9	33	87	60	69	415
Treungen	33	34	30	19	38	17	13	17	42	58	63	70	436
Gulsvik	31	25	52	32	42	15	34	20	28	39	40	25	382
Narbuvoil	8	10	5	3	22	7	6	11	12	19	19	18	141
Haukeland	14	65	8	50	18	23	41	16	11	77	67	64	454
Kårvatn	4	6	4	1	6	8	25	16	4	9	7	5	91
Tustervatn	5	9	4	4	5	4	7	12	8	17	9	10	94
Jergul	3	2	3	9	4	4	4	8	3	4	2	4	50
Lista	67	31	25	61	20	29	34	10	56	99	82	100	613
Vatnedalen	7	10	3	13	10	13	14	8	9	18	14	18	138
Vikedal II	6	21	10	72	13	33	38	22	24	94	64	69	465
Løken	22	21	15	26	32	20	11	11	47	60	50	50	365
Lillestrøm	24	13	16	56	17	15	7	10	32	58	43	42	332
Kaupanger	6	7	2	5	5	8	5	2	1	15	22	10	87
Gaular	6	11	3	14	7	12	16	11	4	27	45	27	183
Alterneset	8	23	7	8	9	4	9	12	7	19	10	-	116
Skrova	19	42	7	20	15	7	12						(122)
Vardø	29	13	4	31	4	5	17	8	8	12	8	24	163
Kise (weekly)	15	13	10	21	28	20	10	12	22	32	18	21	223
Kise (monthly)	12	6	7	18	29	19	6	12	23	32	19	17	199
As	35	24	41	40	34	22	9	8	22	43	59	52	389

Table 18: Monthly and annual wet deposition of ammonium (NH_4) at the Norwegian background stations, 1984.
Unit: mg N/m^2 .

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	121	68	75	57	77	37	32	13	70	94	235	125	1003
Skreådalen	24	8	11	65	46	29	23	7	31	57	41	58	401
Treungen	16	23	16	23	59	28	15	21	36	16	33	39	325
Gulsvik	24	24	43	61	99	51	94	41	28	24	36	21	547
Narbuvoil	2	4	3	4	60	73	45	28	18	20	3	3	262
Haukeland	8	56	7	76	55	34	369	35	18	40	52	36	783
Kårvatn	2	3	4	2	13	4	71	54	3	6	1	3	166
Tustervatn	6	8	4	6	12	4	10	18	4	12	2	4	89
Jergul	0	1	1	17	8	6	6	28	6	2	0	1	76
Lista	49	15	24	46	24	33	29	7	46	41	85	77	474
Vatnedalen	6	7	3	11	20	15	16	3	3	3	5	10	102
Vikedal II	5	20	10	100	33	54	87	40	20	75	28	44	516
Løken	23	23	11	43	56	132	56	25	35	60	52	52	567
Lillestrøm	28	12	13	84	37	34	16	28	43	68	51	44	458
Kaupanger	8	8	4	9	10	16	3	3	1	6	15	5	88
Gaular	3	9	5	26	23	8	47	48	6	21	32	14	241
Alterneset	8	24	6	16	19	2	11	15	4	13	8	-	128
Skrova	5	13	8	23	27	9	21						(106)
Vardø	14	5	*	64	25	93	166	41	25	5	21	24	484
Kise (weekly)	12	9	7	28	74	33	16	30	44	66	14	22	354
Kise (monthly)	9	6	8	41	64	19	11	16	28	61	23	17	300
As	26	17	67	68	147	30	9	34	43	34	52	54	580

* Small amount of precipitation.

Table 19: Monthly and annual wet deposition of calcium (Ca) at the Norwegian background stations, 1984.
Unit: mg/m²

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	40	17	20	13	37	11	26	3	17	23	89	38	336
Skreådalen	67	13	7	17	30	10	11	5	9	51	32	27	279
Treungen	15	6	6	7	27	7	15	6	9	16	51	15	179
Gulsvik	7	4	50	20	62	15	31	10	10	10	11	5	235
Narbuvoll	6	4	4	5	52	13	5	21	14	14	8	7	154
Haukeland	72	45	45	22	13	13	75	37	14	100	77	58	571
Kårvatn	29	13	59	2	11	9	12	8	4	22	13	21	204
Tustervatn	19	19	6	7	8	9	8	13	3	19	7	10	127
Jergul	2	2	2	4	8	7	4	8	2	6	1	2	48
Lista	266	44	12	21	17	15	20	10	34	229	108	83	860
Vatnedalen	16	3	1	5	17	7	8	5	13	14	25	11	125
Vikedal II	36	29	15	28	27	23	20	23	11	73	124	45	455
Loken	17	7	6	26	70	21	9	10	15	15	14	13	223
Lillestrøm	14	4	19	42	43	18	13	12	24	18	24	37	268
Kaupanger	12	5	6	3	7	4	8	7	2	15	13	8	89
Gaular	28	10	8	13	6	8	6	13	4	32	25	35	188
Alterneset	46	57	36	52	16	36	23	24	11	47	51	-	398
Skrova	155	263	42	52	78	34	28						(653)
Vardø	149	20	22	93	21	44	125	33	27	49	77	83	743
Kise (weekly)	5	4	6	31	61	19	13	16	18	13	4	5	195
Kise (monthly)	16	7	10	20	61	29	11	17	21	7	9	7	214
Ås	42	14	44	34	93	23	6	32	26	52	33	22	419

Table 20: Monthly and annual wet deposition of potassium (K) at the Norwegian background stations, 1984.
Unit: mg/m²

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	74	19	13	8	15	19	11	5	28	38	71	42	343
Vikedal II	26	16	13	13	18	28	22	17	8	72	25	37	294
Lillestrøm	13	3	4	11	6	19	29	11	28	15	14	13	168
Kaupanger	22	14	8	4	6	17	11	16	5	12	12	11	138
Gaular	51	8	7	8	5	18	15	11	7	38	15	32	217
Alterneset	21	23	5	9	4	6	12	8	2	17	4	-	111
Kise (weekly)	6	7	4	9	13	51	12	20	46	34	6	6	213
Kise (monthly)	1	1	1	2	10	13	7	5	8	9	4	4	65
Ås	30	5	18	6	205	42	8	68	15	54	11	10	472

Table 21: Monthly and annual wet deposition of magnesium (Mg) at the Norwegian background stations, 1984.
Unit: mg/m^2

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	75.0	20.2	11.0	3.7	6.3	4.6	3.2	0.8	13.0	39.0	84.5	38.2	299.3
Skreådalen	170.0	23.5	5.5	10.9	3.2	4.0	1.7	4.8	6.6	80.8	33.9	20.5	365.6
Treungen	19.1	3.0	1.6	1.1	3.3	1.8	1.6	1.5	3.5	8.7	9.8	5.1	60.2
Gulsvik	2.3	1.2	4.7	2.2	7.9	3.6	4.4	1.8	1.0	2.8	2.1	0.9	35.0
Narbuvooll	1.6	1.1	1.3	0.5	4.9	3.3	2.6	3.4	3.2	1.7	1.2	1.3	26.2
Haukeland	159.5	66.6	39.4	37.8	6.4	11.2	16.1	13.1	16.0	137.8	32.5	78.8	615.3
Kårvatn	31.1	12.9	38.4	2.2	6.2	3.6	7.3	5.3	3.1	20.0	1.5	28.2	159.8
Tustervatn	34.6	28.6	7.4	6.4	1.1	3.2	1.5	3.7	0.9	4.2	1.0	12.0	104.6
Jergul	0.5	0.5	0.5	0.6	1.2	2.9	0.8	2.8	0.2	1.0	0.2	0.5	11.7
Lista	731.8	108.5	15.8	34.0	5.5	22.3	16.5	21.4	63.8	665.8	219.8	215.2	2120.4
Vatnedalen	30.4	5.1	1.0	1.4	1.9	1.4	1.4	0.8	3.6	7.0	4.0	2.4	60.3
Vikedal II	69.3	30.0	25.8	29.2	7.8	13.5	6.5	18.2	13.6	176.5	48.8	50.2	489.4
Løken	16.8	3.0	0.8	2.6	6.5	9.1	3.7	3.0	2.6	10.5	7.8	6.7	73.1
Lillestrøm	9.7	1.0	0.7	4.3	4.1	3.1	1.7	2.7	2.8	4.6	5.0	6.2	45.9
Kaupanger	29.3	5.5	9.1	2.8	1.4	1.9	1.2	1.6	0.5	8.8	3.2	10.1	75.3
Gaular	42.5	13.7	19.7	16.4	1.9	3.3	3.6	7.7	5.2	39.9	10.0	33.1	197.1
Alterneset	50.7	49.4	10.6	21.6	4.8	7.9	3.6	7.9	2.4	17.7	7.7	-	184.4
Skrova	419.9	808.3	112.0	127.8	181.3	83.0	62.3						(1794.6)
Vardø	401.0	48.3	50.8	244.3	30.7	96.2	310.0	82.4	55.3	143.5	217.0	224.6	1904.1
Kise (weekly)	1.4	0.8	0.7	6.8	5.9	4.3	1.4	2.8	3.1	3.6	0.5	0.8	32.2
Kise (monthly)	1.6	0.7	1.1	2.0	6.4	3.8	1.6	1.7	1.4	2.8	1.5	1.8	26.4
Ås	41.1	7.1	7.2	4.6	18.6	6.1	1.8	5.1	3.5	15.5	13.2	9.5	133.1

Table 22: Monthly and annual wet deposition of sodium (Na) at the Norwegian background stations, 1984.
Unit: mg/m^2 .

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	626	169	81	23	21	44	13	5	122	339	680	354	2478
Vikedal II	602	246	212	216	44	119	40	135	119	1359	360	428	3879
Lillestrøm	92	11	8	17	7	7	11	7	12	53	42	48	316
Kaupanger	244	61	81	23	4	15	11	14	6	85	23	93	663
Gaular	369	116	160	182	12	21	18	45	25	281	85	298	1612
Alterneset	405	414	69	151	27	38	15	51	15	105	23	-	1314
Kise (weekly)	8	4	4	3	6	9	7	4	12	16	4	8	84
Kise (monthly)	7	2	2	2	8	5	5	3	14	14	6	9	77
Ås	324	33	47	12	15	8	6	79	17	52	93	88	772

Table 23: Monthly and annual wet deposition of chloride (Cl) at the Norwegian background stations, 1984.
Unit: mg/m².

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	1167	302	133	36	48	42	26	15	218	612	1254	608	4460
Skreådalen	2440	344	69	208	24	66	16	79	122	1215	515	354	5452
Treungen	284	44	25	11	11	12	13	11	64	130	112	81	797
Gulsvik	28	20	31	11	16	16	16	8	30	31	26	15	248
Narbuvoll	18	7	10	3	8	25	10	21	23	20	9	13	168
Haukeland	2414	885	630	583	76	150	87	196	226	1938	417	1154	8756
Kårvatn	464	157	586	33	84	42	27	61	48	292	26	403	2222
Tustervatn	501	438	113	98	10	32	11	54	18	61	10	191	1536
Jergul	5	2	5	6	4	24	5	10	3	11	2	3	81
Lista	11330	1183	249	441	52	248	150	329	921	9814	3352	2965	31035
Vatnedalen	454	66	12	14	13	6	11	17	19	106	54	66	839
Vikedal II	1009	419	405	406	74	180	61	234	215	2660	671	763	7098
Løken	280	48	7	11	16	61	16	24	34	162	121	109	890
Lillestrøm	167	16	10	36	7	14	16	10	28	99	69	81	555
Kaupanger	441	101	142	44	9	11	17	24	11	145	27	154	1126
Gaular	684	199	302	259	23	32	19	50	34	536	139	531	2807
Alterneset	730	656	128	273	50	72	27	100	18	193	43	-	2293
Skrova	6521	12160	1841	2058	2595	1138	872						(27185)
Vardø	6461	705	-*	3595	470	1393	4582	1221	860	1985	3612	3568	28452
Kise (weekly)	16	7	5	8	12	15	8	9	17	26	5	11	138
Kise (monthly)	11	1	2	6	11	10	5	10	7	14	6	9	92
Ås	573	55	58	25	44	15	12	107	35	103	185	147	1358

* Small amount of precipitation.

Table 24: Annual weighted mean concentrations and wet depositions of main components in precipitation at Norwegian background stations, 1973-1984.

Station	Year	Annual mean conc. mg/l					Annual means pH	Annual prec. mm	Wet deposition			
		SO ₄ -S	NO ₃ -N	NH ₄ -N	Ca	Mg			SO ₄ -S mg/m ²	NO ₃ -N mg/m ²	NH ₄ -N mg/m ²	H ⁺ mekv/m ²
Birkenes	1973	1.06				0.11	4.27	1072	1136			58
	1974	1.11	0.50	0.52	0.23	0.19	4.25	1563	1735	782	813	88
	1975	1.01	0.49	0.45	0.19	0.17	4.27	1341	1354	657	603	72
	1976	1.18	0.63	0.50	0.17	0.12	4.21	1434	1692	903	717	88
	1977	1.04	0.54	0.54	0.17	0.17	4.27	1597	1661	862	862	86
	1978	1.17	0.62	0.57	0.17	0.12	4.11	1242	1453	770	708	96
	1979	1.25	0.57	0.65	0.22	0.15	4.09	1560	1950	889	1014	127
	1980	1.23	0.57	0.63	0.22	0.11	4.16	1160	1427	661	731	80
	1981	1.04	0.52	0.53	0.20	0.13	4.21	1316	1369	684	697	81
	1982	1.05	0.56	0.72	0.22	0.21	4.27	1592	1663	887	1140	86
	1983	0.91	0.49	0.50	0.24	0.17	4.33	1313	1195	646	650	62
	1984	1.09	0.57	0.63	0.21	0.19	4.24	1603	1755	905	1003	93

Table 24: Cont.

Station	Year	Annual mean conc. mg/l					Annual means pH	Annual prec. mm	Wet deposition			
		SO ₄ -S	NO ₃ -N	NH ₄ -N	Ca	Mg			SO ₄ -S mg/m ²	NO ₃ -N mg/m ²	NH ₄ -N mg/m ²	H ⁺ mekv/m ²
Skreådalen	1973	0.50				0.19	4.60	2185	1093			55
	1974	0.55				0.18	4.47	2460	1350			83
	1975	0.57	0.18	0.17		0.19	4.55	2436	1389	438	414	69
	1976	0.60	0.24	0.23		0.17	4.55	1687	1012	405	388	48
	1977	0.57	0.27	0.28	0.15	0.13	4.55	2051	1169	554	574	58
	1978	0.49	0.20	0.26	0.20	0.29	4.52	1769	867	354	460	53
	1979	0.61	0.26	0.28	0.16	0.14	4.33	2311	1410	601	647	108
	1980	0.48	0.21	0.21	0.15	0.17	4.54	1949	936	409	409	56
	1981	0.49	0.20	0.28	0.16	0.18	4.58	2260	1107	452	633	59
	1982	0.57	0.28	0.37	0.17	0.22	4.52	2519	1436	709	933	76
	1983	0.43	0.19	0.26	0.18	0.23	4.70	2843	1221	551	734	57
	1984	0.46	0.24	0.23	0.16	0.21	4.59	1762	802	415	401	46
Treungen	1974	0.94	0.38	0.33	0.14	0.07	4.27	1039	977	395	343	56
	1975	0.91	0.37	0.34	0.15	0.06	4.26	894	814	331	304	49
	1976	1.05	0.50	0.42	0.11	0.06	4.20	706	741	353	297	45
	1977	0.81	0.44	0.39	0.11	0.05	4.32	1165	944	513	454	56
	1978	0.87	0.38	0.41	0.14	0.04	4.21	945	822	359	387	58
	1979	-	-	-	-	-	-	-	-	-	-	-
	1980	0.88	0.37	0.39	0.14	0.04	4.23	759	668	281	296	45
	1981	0.86	0.39	0.46	0.12	0.05	4.29	949	816	370	437	49
	1982	0.84	0.45	0.50	0.14	0.07	4.32	1130	948	504	563	54
	1983	0.83	0.40	0.43	0.18	0.05	4.35	1091	908	431	471	48
1984	0.77	0.36	0.27	0.15	0.05	4.27	1196	919	436	325	64	
Gulsvik	1974	0.81	0.38	0.28	0.13	0.04	4.28	783	634	298	219	41
	1975	0.89	0.40	0.34	0.21	0.05	4.36	560	498	224	190	24
	1976	0.85	0.38	0.30	0.10	0.03	4.35	641	545	244	192	29
	1977	0.77	0.39	0.35	0.13	0.03	4.35	683	526	266	239	31
	1978	0.94	0.40	0.38	0.16	0.03	4.22	693	651	277	263	42
	1979	1.27	0.53	0.62	0.23	0.04	4.11	790	1003	419	490	61
	1980	0.78	0.25	0.27	0.13	0.03	4.33	667	520	167	180	31
	1981	0.86	0.35	0.40	0.13	0.03	4.30	628	540	220	251	31
	1982	0.89	0.44	0.52	0.22	0.05	4.38	778	696	346	408	33
	1983	0.94	0.40	0.58	0.25	0.05	4.39	664	623	263	384	27
1984	0.87	0.40	0.58	0.25	0.04	4.41	946	819	382	547	37	
Narbuvoll	1978	0.34	0.16	0.15	0.18	0.03	4.71	380	129	61	57	7
	1979	0.59	0.23	0.22	0.31	0.04	4.49	422	249	97	93	14
	1980	0.40	0.15	0.14	0.23	0.04	4.80	600	240	90	84	10
	1981	0.41	0.18	0.28	0.23	0.04	4.83	541	222	97	151	8
	1982	0.49	0.28	0.36	0.25	0.06	4.71	358	176	101	129	7
	1983	0.38	0.16	0.19	0.18	0.05	4.76	613	232	98	114	11
	1984	0.47	0.20	0.36	0.21	0.04	4.73	725	342	141	262	14
Haukeland	74/75*	0.31	0.13	0.15	0.17	0.29	4.70	3901	1207	522	582	78
	75/76*	0.36	0.10	0.17	0.17	0.37	4.73	4551	1636	431	753	85
	76/77*	0.59	0.23	0.45	0.18	0.25	4.59	1808	1060	417	813	46
	1982	0.48	0.18	0.20	0.14	0.24	4.56	3688	1756	674	722	101
	1983	0.32	0.14	0.14	0.15	0.26	4.70	4769	1536	647	687	96
	1984	0.42	0.16	0.28	0.20	0.22	4.63	2792	1157	454	783	65
Kårvatn	1978**	0.16	0.05	0.09	0.11	0.13	4.98	1317	211	66	119	14
	1979	0.23	0.09	0.08	0.10	0.10	4.63	1248	287	112	100	29
	1980	0.20	0.07	0.08	0.11	0.13	4.88	1225	245	86	98	16
	1981	0.20	0.08	0.15	0.17	0.25	4.96	1101	220	88	165	12
	1982	0.26	0.08	0.11	0.15	0.16	4.87	995	256	78	112	13
	1983	0.14	0.05	0.06	0.18	0.20	5.08	1918	265	100	106	16
	1984	0.24	0.10	0.18	0.22	0.18	5.04	914	216	91	166	8

* From July the first year and to June the next year. Sulphate in precipitation is corrected for sea salt with Cl (instead of Mg).

** One month is missing.

Table 24: Cont.

Station	Year	Annual mean conc. mg/l					Annual means pH	Annual prec. mm	Wet deposition			
		SO ₄ -S	NO ₃ -N	NH ₄ -N	Ca	Mg			SO ₄ -S mg/m ²	NO ₃ -N mg/m ²	NH ₄ -N mg/m ²	H ⁺ mekv/m ²
Tustervatn	1973	0.24				0.18	4.94	1336	321			15
	1974	0.28				0.11	4.88	695	195			9
	1975	0.25				0.33	4.91	1756	439			22
	1976	0.27				0.16	4.97	1064	287			11
	1977	0.30	0.09	0.11	0.17	0.16	4.91	1111	333	100	122	14
	1978	0.23	0.08	0.10	0.16	0.16	4.85	1128	259	90	113	16
	1979	0.28	0.08	0.13	0.15	0.11	4.73	1168	327	93	152	22
	1980**	0.29	0.09	0.16	0.14	0.12	4.91	858	249	77	137	11
	1981	0.18	0.07	0.10	0.21	0.15	5.00	1099	198	77	110	11
	1982	0.16	0.08	0.09	0.22	0.47	4.98	1385	227	109	121	15
	1983	0.20	0.06	0.09	0.16	0.22	4.90	1665	337	101	142	21
1984	0.24	0.09	0.09	0.12	0.10	4.85	1056	250	94	89	15	
Jergul	1977	0.45	0.13	0.11	0.20	0.04	4.75	344	155	45	38	6
	1978	0.43	0.10	0.11	0.13	0.02	4.52	351	151	35	39	11
	1979	0.59	0.18	0.13	0.14	0.03	4.33	306	181	55	40	14
	1980	0.42	0.12	0.09	0.12	0.03	4.57	262	110	31	24	7
	1981	0.46	0.13	0.12	0.11	0.02	4.57	434	200	56	52	12
	1982	0.36	0.13	0.14	0.10	0.03	4.65	473	172	62	65	11
	1983	0.41	0.11	0.11	0.13	0.04	4.60	382	156	41	43	10
	1984	0.50	0.15	0.22	0.14	0.03	4.50	342	172	50	76	11
Lista	1973	1.01				1.31	4.33	851	860			40
	1974	1.06				1.00	4.28	1208	1280			63
	1975	1.10				1.06	4.30	1109	1220			56
	1976	1.37				1.21	4.23	922	1263			54
	1977	0.95				1.09	4.34	1114	1058			51
	1978	1.01	0.50	0.45	0.54	1.18	4.27	931	940	466	419	50
	1979	1.27	0.63	0.57	0.53	1.04	4.09	1157	1469	729	659	94
	1980	1.05	0.59	0.54	0.47	1.00	4.22	953	1001	562	515	57
	1981	0.90	0.47	0.50	0.60	1.36	4.34	1037	933	487	519	47
	1982	1.09	0.65	0.60	0.85	1.82	4.29	1070	1161	699	645	55
	1983	0.88	0.49	0.40	0.77	1.69	4.36	1198	1051	584	480	53
1984	0.92	0.61	0.47	0.86	2.12	4.28	1002	923	613	474	53	
Vatnedalen	1974	0.54				0.06	4.59	884	477			23
	1975	0.53	0.17	0.22		0.09	4.85	994	527	169	219	14
	1976	0.50	0.20	0.36	0.12	0.10	4.85	715	358	143	257	10
	1977	0.44	0.21	0.25	0.13	0.06	4.71	761	335	160	190	15
	1978	0.41	0.17	0.23	0.14	0.10	4.62	862	353	147	198	21
	1979	0.56	0.22	0.20	0.20	0.06	4.38	948	531	209	190	40
	1980	0.45	0.16	0.10	0.14	0.06	4.55	799	360	128	80	23
	1981	0.49	0.19	0.18	0.14	0.09	4.49	900	441	171	162	29
	1982	0.38	0.18	0.17	0.13	0.08	4.62	967	366	174	159	23
	1983	0.29	0.13	0.10	0.14	0.08	4.76	1249	363	166	130	22
1984	0.40	0.18	0.13	0.16	0.08	4.59	762	306	138	102	20	

** One month is missing.

Table 24: Cont.

Station	Year	Annual mean conc. mg/l					Annual means pH	Annual prec. mm	Wet deposition			
		SO ₄ -S	NO ₃ -N	NH ₄ -N	Ca	Mg			SO ₄ ⁻	NO ₃ ⁻	NH ₄ ⁺	H ⁺
		mg/m ²	mg/m ²	mg/m ²	mg/m ²	mg/m ²		mm	mg/m ²	mg/m ²	mg/m ²	mekv/m ²
Løken	1973	1.03				0.06	4.48	569	586			19
	1974	0.94				0.08	4.43	831	781			31
	1975	1.03	0.41	0.42		0.08	4.32	657	677	269	276	31
	1976	1.20	0.49	0.50	0.40	0.09	4.39	533	640	261	267	22
	1977	0.96	0.41	0.43	0.22	0.07	4.41	699	671	287	301	27
	1978	1.10	0.48	0.52	0.24	0.07	4.25	597	657	287	310	34
	1979	1.03	0.49	0.57	0.30	0.07	4.22	784	808	384	447	47
	1980	0.97	0.39	0.49	0.25	0.08	4.33	695	674	271	341	33
	1981	0.77	0.36	0.51	0.20	0.06	4.48	700	539	252	357	23
	1982	1.06	0.60	0.79	0.24	0.11	4.33	585	908	515	679	40
	1983	0.91	0.47	0.62	0.28	0.10	4.42	656	595	311	404	25
	1984	0.91	0.49	0.76	0.30	0.10	4.45	747	678	365	567	27
Kise (week)	1982	0.96	0.53	0.74	0.24	0.04	4.34	484	464	255	357	22
	1983	0.97	0.43	0.67	0.33	0.06	4.45	394	362	161	249	13
	1984	0.79	0.36	0.56	0.31	0.05	4.63	629	497	223	354	15
Kise (month)	1975	0.88	0.10	0.35	0.24	0.05	4.36	335	295	34	117	15
	1976	1.24	0.40	0.61	0.36	0.07	4.40	378	469	151	231	15
	1977	1.32	0.34	0.73	0.32	0.07	4.50	344	454	117	251	11
	1978	1.97	0.49	0.83	0.56	0.10	4.24	203	400	99	168	12
	1979	1.40	0.38	0.81	0.39	0.05	4.33	399	559	152	323	19
	1980	1.10	0.35	1.68	0.55	0.17	4.60	457	503	160	768	11
	1981	1.24	0.42	0.55	0.53	0.06	4.38	325	403	137	179	14
	1982	1.25	0.55	0.81	0.71	0.07	4.44	319	400	177	258	12
	1983	1.49	0.49	0.83	0.57	0.10	4.44	295	441	145	244	11
1984	1.27	0.44	0.66	0.47	0.06	4.37	456	580	199	300	19	
As	1975	1.58	0.13	0.59	0.42	0.15	4.25	484	765	63	286	27
	1976	1.62	0.57	0.79	0.73	0.18	4.44	506	820	288	400	18
	1977	1.50	0.55	1.06	0.78	0.22	4.50	522	783	287	553	17
	1978	1.71	0.62	0.90	0.60	0.13	4.20	496	848	308	446	31
	1979	2.11	0.88	1.27	0.89	0.25	4.15	454	958	400	577	32
	1980	1.82	0.64	0.75	0.79	0.21	4.22	483	879	309	362	29
	1981	1.11	0.53	0.76	0.47	0.16	4.48	534	593	283	406	18
	1982**	1.30	0.59	0.82	0.51	0.18	4.47	695	901	411	572	23
	1983	1.52	0.71	0.67	0.77	0.23	4.38	458	694	324	308	19
1984	1.50	0.68	1.01	0.73	0.23	4.47	573	857	389	580	19	

** One month is missing.

Table 25: Monthly and annual mean concentrations of sulphur dioxide (SO_2) in air at the Norwegian background stations, 1984.
Unit: $\mu\text{g S/m}^3$.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.7	1.4	1.1	0.6	0.6	0.3	0.6	0.3	0.3	0.3	0.9	0.9	0.7
Skreådalen	1.1	2.2	1.1	0.7	0.4	0.2	0.6	0.1	0.4	0.3	1.2	1.5	0.8
Hummelfjell	0.6	0.8	0.6	0.4	0.3	0.1	0.2	0.1	0.8	0.1	0.5	0.3	0.4
Kårvatn	0.9	1.0	0.5	0.3	0.3	0.1	0.2	0.1	0.2	0.1	0.5	1.0	0.4
Tustervatn	1.2	2.2	1.5	0.4	0.2	0.1	0.2	0.1	0.8	0.3	0.4	1.1	0.7
Jergul	1.8	3.7	2.0	0.8	0.4	0.2	0.1	0.2*	0.4**	0.8	1.6	1.2	1.2
Vardø	3.7	5.5	1.9	1.1	0.6	0.2	0.3	0.4	2.9	2.5	1.8	1.6	1.9
Skrova	0.9	1.3	0.8	0.4	0.2	0.1	0.1						(0.5)

* 25 days are missing.

** 13 days are missing.

Table 26: Monthly and annual mean concentrations of sulphate (SO_4) in air at the Norwegian background stations, 1984.
Unit: $\mu\text{g S/m}^3$.

Station	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Birkenes	0.6	2.0	1.0	1.4	2.0	0.7	1.5	1.0	0.7	0.6	1.9	1.7	1.3
Skreådalen	0.5	1.4	1.1	1.3	1.9	0.7	1.4	0.7	0.7	0.4	1.3	1.1	1.0
Hummelfjell	0.3	0.7	0.6	0.8	1.2	0.2	0.5	0.3	0.3	0.2	0.2	0.3	0.5
Kårvatn	0.2	0.5	0.6	0.9	1.3	0.3	0.8	0.3	0.4	0.2	0.3	0.5	0.5
Tustervatn	0.5	1.2	1.1	1.1	1.2	0.4	0.8	0.3	0.8	0.4	0.4	0.7	0.7
Jergul	1.1	1.7	1.0	1.0	0.7	0.4	0.2	0.5*	0.6**	0.6	0.6	0.8	0.8
Vardø	2.4	2.5	1.9	1.2	0.8	0.4	0.6	0.6	2.0	1.2	0.8	1.0	1.3
Skrova	0.8	1.0	0.9	0.9	0.7	0.3	0.5						(0.7)

* 25 days are missing.

** 13 days are missing.

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TITTEL Precipitation and air chemistry at the Norwegian background stations, 1984		PROSJEKTLEDER E. Joranger	
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REFERAT (maks. 300 anslag, 7 linjer) Rapporten inneholder nedbørdata for 22 norske bakgrunnstasjoner i 1984. Den kjemiske sammensetning av nedbørprøvene er presentert som måneds- og årsverdier. Årsverdiene er også gitt for hver stasjon fra deres start. Luftkonsentrasjonene av svoveldioksid og partikulært sulfat er målt på 8 av stasjonene, og presentert som måneds- og årsmiddelverdier.			

TITLE Precipitation and air chemistry at the Norwegian background stations, 1984.
ABSTRACT (max. 300 characters, 7 lines) The precipitation quality data measured in 1984 at 22 Norwegian background stations are presented. The chemical compositions are given as monthly and annual values. Annual values from the start of each station are also given. Air concentrations of sulphur dioxide and particulate sulphate were measured at 8 stations, and presented as monthly and annual averages.

* Kategorier: Åpen - kan bestilles fra NILU A
 Må bestilles gjennom oppdragsgiver B
 Kan ikke utleveres C