

TABLE A8.6. Statistical data for concentrations of solar-wind-implanted elements (see section 8.8, Figs. 8.35 and 8.39).

	H μg/g	C μg/g	N μg/g	He μg/g	Ne μg/g	Ar μg/g	Kr ng/g	Xe ng/g
Apollo 11 MBAS								
N				33	33	32	21	20
Average								
Std. dev.								
Minimum				0.0192	0.00017	0.0280	0.00079	0.00111
Maximum				0.47	0.1270	0.194	0.104	0.102
Apollo 12 MBAS								
N	3	11	6	10	10	10	9	10
Average		33				0.0227		
Std. dev.		11.0				0.0073		
Minimum	1.5	5.3	0.6	0.026	0.00047	0.0114	0.00086	0.00058
Maximum	9	45	44	0.089	0.00191	0.036	0.0051	0.0038
Apollo 15 MBAS								
N	11	13	3					
Average								
Std. dev.								
Minimum	1.2	7.7	3.5					
Maximum	12	22	125					
Apollo 17 MBAS								
N	6	25	12					
Average								
Std. dev.								
Minimum								
Maximum								
Luna 20 MBAS								
N				4	4	4	1	
Average							0.059	
Std. dev.								
Minimum				0.199	0.0157	0.079		
Maximum				0.97	0.067	0.165		
Apollo 11 S&RB								
N	11	16	7	30	23	17	25	16
Average		154	78	46			1.95	
Std. dev.		38	21	14		-	0.66	
Minimum	20	96	45	19.6	1.93	1.28	1.05	0.47
Maximum	100	216	110	84	10.7	12.3	3.2	3.8
Apollo 12 S&RB								
N	7	33	19	7	7	7	14	16
Average		115	89					0.42
Std. dev.		42	24					0.15
Minimum	1.9	23	46	14.0	1.20	0.47	0.065	0.090
Maximum	106	170	140	68	6.0	4.6	1.32	0.62

TABLE A8.6. (continued).

	H μg/g	C μg/g	N μg/g	He μg/g	Ne μg/g	Ar μg/g	Kr ng/g	Xe ng/g
Apollo 14 S&RB								
N	3	25	5	13	13	13	14	14
Average	80	131	91	10.6				
Std. dev.	24	42	23	3.6				
Minimum	67	42	25	5.2	0.141	0.36	0.079	0.036
Maximum	105	225	130	15.9	1.55	2.2	1.60	1.02
Apollo 15 S&RB								
N	24	90	46	33	33	33	22	22
Average		109	86	11.2	1.24	1.10	0.76	0.41
Std. dev.		35	26	3.4	0.31	0.39	0.25	0.12
Minimum	13	21	33	4.5	0.61	0.47	0.36	0.187
Maximum	125	186	135	18.7	1.80	2.7	1.56	0.70
Apollo 16 S&RB								
N	26	58	52	39	37	39	30	31
Average		112			0.78		1.04	0.63
Std. dev.		49			0.21		0.37	0.21
Minimum	3.9	31	4	3.0	0.41	0.65	0.29	0.22
Maximum	146	280	209	36	1.23	3.4	2.2	1.00
Apollo 17 S&RB								
N	24	63	40	28	22	22	19	20
Average				23.9	1.76	1.44		0.45
Std. dev.				7.9	0.39	0.57		0.17
Minimum	0.1	3.5	7.3	13.0	1.21	0.60	0.056	0.040
Maximum	106	200	94	41	2.7	2.6	1.39	0.69
Luna 20 S&RB								
N				3	3	3	1	1
Average				11.8	1.41	1.51	0.91	0.74
Std. dev.				3.4	0.31	0.52		
Minimum				8.1	1.12	0.92		
Maximum				14.9	1.74	1.95		
Apollo 14 BX								
N		15	17	17	16	24	15	15
Average								
Std. dev.								
Minimum		21	2.5	0.021	0.0011	0.0107	0.00111	0.0022
Maximum		170	99	19.5	2.0	3.75	1.82	1.27
Apollo 15 BX								
N	4	20	14					
Average								
Std. dev.								
Minimum	12	11	23					
Maximum	60	210	102					

TABLE A8.6. (continued).

	H μg/g	C μg/g	N μg/g	He μg/g	Ne μg/g	Ar μg/g	Kr ng/g	Xe ng/g
Apollo 16 BX								
N	1	49	28					
Average	89							
Std. dev.								
Minimum		2	0.7					
Maximum		385	135					
Apollo 17 BX								
N	11	24	13					
Average			72					
Std. dev.		—	27					
Minimum	1	12	30					
Maximum	56	157	120					

Note that data for the highland monomict rocks (HMCT) are not given because the HMCT have very low concentrations of solar-wind-implanted elements, and the few data available show a great deal of scatter. For the data from other sample types, wherever the number of analyses (N) is >1 but no average or standard deviation is given, this was done because of extreme scatter in the data (relative standard deviation >40%). Standard deviations are also not listed where N is <3. N = number of analyses, Std. dev. = standard deviation, MBAS = mare basalts, S&RB = soils and regolith breccias, BX = polymict breccias.

Main sources for data used in this table: **H**: refs. 2, 10, 12, 16-20, 23, 25, 26, 43, 56, 57; **He**: refs. 3, 8, 9, 21, 22, 24, 29-31, 33, 38, 41-43, 53, 54, 56, 57; **C**: refs. 2, 6, 11-20, 23, 34-37, 44-48, 52, 54-56; **N**: refs. 3-6, 11-13, 27, 28, 34, 37, 39, 46, 48-52, 54, 56, 58; **Ne**: refs. 7, 9, 21, 22, 24, 29-33, 38, 41, 42, 53; **Ar**: refs. 8, 9, 21, 22, 24, 29-33, 38, 41, 42, 53; **Kr**: refs. 1, 9, 24, 29-31, 33, 38, 41, 42; **Xe**: refs. 1, 9, 24, 29-31, 33, 40, 41, 42.

References: **1.** Basford et al.(1973); **2.** Becker(1980); **3.** Becker and Clayton(1975); **4.** Becker and Clayton(1977); **5.** Becker et al.(1976); **6.** Becker and Epstein(1981); **7.** Behrmann et al.(1973); **8.** Bogard et al.(1974); **9.** Bogard and Nyquist(1973); **10.** Bustin et al.(1984); **11.** Chang et al.(1974a); **12.** Chang et al.(1974b); **13.** Des Marais(1978); **14.** Des Marais et al.(1975); **15.** Des Marais et al.(1973); **16.** Des Marais et al.(1974); **17.** Epstein and Taylor(1970); **18.** Epstein and Taylor(1971); **19.** Epstein and Taylor(1973); **20.** Epstein and Taylor(1975); **21.** Eugster et al.(1975); **22.** Frick et al.(1973); **23.** Friedman et al.(1971); **24.** Funkhouser et al.(1970); **25.** Gibson and Bustin(1987); **26.** Gibson et al.(1987); **27.** Goel and Kothari(1972); **28.** Goel et al.(1975); **29.** Hintenberger et al.(1975); **30.** Hintenberger et al.(1974); **31.** Hintenberger et al.(1970); **32.** Hübner et al.(1975); **33.** Husain et al.(1972); **34.** Kaplan et al.(1976); **35.** Kaplan and Petrowski(1971); **36.** Kaplan et al.(1970); **37.** Kerridge et al.(1975b); **38.** Kirsten et al.(1973); **39.** Kothari and Goel(1973); **40.** Lightner and Marti(1974); **41.** Lugmair et al.(1976); **42.** Marti et al.(1970); **43.** Merlivat et al.(1974); **44.** Moore and Lewis(1976); **45.** C. B. Moore et al.(1974); **46.** Moore et al.(1972); **47.** Moore et al.(1973); **48.** Moore et al.(1971); **49.** Müller(1972); **50.** Müller(1973); **51.** Müller(1974); **52.** Norris et al.(1983); **53.** Pepin et al.(1970); **54.** Petrowski et al.(1974); **55.** Pillinger et al.(1974); **56.** J. W. Smith et al.(1973); **57.** Stoenner et al.(1974); **58.** Thiemens and Clayton(1980).