

Table 10. Rare element content in weight percent of granite plutons, and their constituent minerals.

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Lab. No.	Field No.	Sample type and location	SiO <sub>2</sub> <sup>1/</sup>	Be	Sn	W <sup>2/</sup>	Li	B	Cu	Pb	Zn	As <sup>2/</sup>	Nb	Type analyses <sup>3/</sup>
61 M-68	60-ASn-52	Bulk chip, granite of Tin Creek	76.5	.0012	.0008	-	.027	.004	.0021	.006	-	-	.0065	A
61 M-63	60-ASn-52A	Biotite		.0020	.014	-	.60	.005	.0019	<.002	.10	-	.045	A
61 M-71	60-ASn-145	Bulk chip, granite of Brooks Mountain	71.3	.0015	.0035	-	.018	.005	.0035	.005	-	-	.0040	A
61 M-66	60-ASn-145A	Biotite		.0009	.020	-	.13	.006	.0024	.004	.11	-	.030	A
D112126	63-ASn-6B	Plagioclase		.0015	.01	B.D.L.	N.D. <sup>4/</sup>	.003	0	.002	0	0	0	B
D112112	63-ASn-5	Orthoclase		.0005	.005	B.D.L.	N.D.	0	.0003	.007	0	0	0	B
D112125	63-ASn-6	Quartz		.0002	0	B.D.L.	N.D.	0	0	0	0	0	0	B
D112114	63-ASn-4	Fraction between 2.87 and 3.3 Sp. gr. nonmagnetic fraction		.0007	.015	.03	N.D.	0	.0005	.001	0	0	0	B
D112116	63-ASn-4B	Fraction between 2.87 and 3.3 Sp. gr. magnetic		.0015	.015	B.D.L.	N.D.	.01	.001	.002	.05	0	.015	B
D112115	63-ASn-4A	Fraction of > 3.3 Sp. gr.		.015	.15	.15	N.D.	.01	.05	.015	0	.2	.03	B
61 M-69	60-ASn-90A	Bulk chip, granite of Cape Mountain	73.8	.0014	.0010	-	.011	.006	.0055	.005	-	-	.0025	A
61 M-64	60-ASn-90B	Biotite		.0009	.012	-	.14	.003	.0020	.002	.12	-	.018	A
D112124	63-ASn-9B	Plagioclase		.0015	.005	B.D.L.	N.D.	0	0	.005	0	0	0	B
D112118	63-ASn-8	Orthoclase		.015	.01	B.D.L.	N.D.	0	0	.007	0	0	0	B
D112123	63-ASn-9	Quartz		.0005	0	B.D.L.	N.D.	0	.0005	.001	0	0	0	B
D112119	63-ASn-8A	Fraction > 3.3 Sp. gr.		.0015	.03	B.D.L.	N.D.	.03	.03	.002	.03	0	.01	B
61 M-72	60-ASn-67	Bulk chip, bleached granite, Lost River mine	74.8	.0026	.012	-	.040	.004	.0055	.028	-	-	.0055	A
61 M-67	60-ASn-67A	Biotite, bleached		.0012	.021	-	.80	.005	.0027	.002	.07	-	.026	A
D112128	63-ASn-11B	Plagioclase		.001	.01	B.D.L.	N.D.	0	0	.003	0	0	0	B
D112122	63-ASn-10	Orthoclase		.0007	.01	B.D.L.	N.D.	0	.0001	.007	0	0	0	B
D112127	63-ASn-11	Quartz		.005	.007	B.D.L.	N.D.	0	.0005	0	0	0	.001	B
D112120	63-ASn-12	Fraction > 3.3 Sp. gr.		.10	2.0	.7	N.D.	.015	.05	.7	1.5	.3	.15	B
D112121	63-ASn-13	Fraction between 3.0 and 3.3 Sp. gr.		.10	.15	.03	N.D.	.02	.005	.03	.07	0	.015	B
D112992	63-ASn-24BA	Bulk chip, granite at Black Mountain	74.3	.0003	.003	B.D.L.	0	.01	.001	.003	0	-	.003	B
D112997	63-ASn-24B5	Biotite		.0003	.05	B.D.L.	.20	.07	.007	.003	.07	-	.05	B
D112996	63-ASn-24B4	Plagioclase		.0002	.007	B.D.L.	0	.003	.001	.01	0	-	.0015	B
D112994	63-ASn-24B2	Orthoclase		.0003	.015	B.D.L.	0	0	.0015	.01	0	-	.003	B
D112995	64-ASn-24B3	Quartz		.0002	.003	B.D.L.	0	.03	.0015	0	0	-	.003	B
D112993	63-ASn-24B1	Fraction > 3.3 Sp. gr.		.0007	.5	.15	0	0	.05	.015	0	-	.05	B
61 M-70	60-ASn-119	Bulk chip, untourmalinized biotite granite of Ear Mountain	73.93	.0016	.0029	B.D.L.	.026	.03	.007	.006	-	-	.0045	A
61 M-65	60-ASn-119A	Biotite		.0008	.035	B.D.L.	.40	.010	.0035	.002	.07	-	.025	A
D112971	63-ASn-EM24A	Chip, fine grained border, granite of Black Mountain		.001	.003	B.D.L.	.05	.02	.0007	.007	0	-	.003	B
D113001	63-ASn-EM24C	Bulk chip, tourmalinized granite of Black Mountain		.001	.03	B.D.L.	0	.5	.01	.005	0	.3	.003	B
Arithmetic average, unaltered granite				.0012	.0020	B.D.L.	.019	.011	.0036	.005	.022	-	.0093	
Arithmetic average, altered granite				.0018	.021	B.D.L.	.02	.252	.0077	.014	.15	-	.0043	
Arithmetic average, quartz in unaltered granite				.0003	.001	B.D.L.	0	.01	.001	.0003	0	-	.001	
Arithmetic average, plagioclase in unaltered granite				.0011	.007	B.D.L.	N.D.	.002	.0003	.056	0	-	.0005	
Arithmetic average, orthoclase in unaltered granite				.0053	.010	B.D.L.	N.D.	0	.0006	.008	0	-	.001	
Arithmetic average, biotite in unaltered granite				.0010	.026	B.D.L.	.294	.019	.0034	.003	.094	-	.034	
Arithmetic average, fraction of 3.3														
Crustal abundance <sup>5/</sup>				.0002	.0003	.0001	.003	.0003	.0045	.0015	.0065	.0002	.0024	

<sup>1/</sup> For total analysis, see page<sup>2/</sup> In quantitative spectrographic analyses, reported as "looked for but not found", shown by dash; in semiquantitative spectrographic analyses, reported as 0, shown here by B.D.L. (below detection limit); detection limits - W = .01 percent; As = 0.1 percent<sup>3/</sup> Quantitative spectrographic analyses by H. V. Bastron (A); semiquantitative analyses by John C. Hamilton (B), U. S. Geological Survey<sup>4/</sup> N.D. means not determined<sup>5/</sup> After Mason, Brian, Principles of Geochemistry, 2nd Edition, John Wiley and Sons, Inc. N. Y.