

TABLE DR1.  $^{40}\text{Ar}/^{39}\text{Ar}$  ANALYTICAL DATA

TABLE DR1. CONTINUED

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TABLE DR2. MAJOR ELEMENT, TRACE ELEMENT, AND ISOTOPIC COMPOSITIONS OF SUNLIGHT ROCKS

Strat Group:	Black Mountain + Jim Mountain										Lower Trout Peak Trachyandesite									
	SV97-23	SV97-24	SV97-25	SV97-28	SV98-4	SV97-3	SV97-6	SV97-29	SV97-5	SV97-7	SV97-13	SV97-12	SV97-8	SV97-9	SV97-11	SV98-9	SV97-19	SV97-18	SV97-10	SV97-15
Unnormalized major element results (wt%)																				
SiO <sub>2</sub>	51.73	52.02	52.44	53.75	55.59	56.23	56.41	56.42	56.73	52.77	52.81	52.89	52.93	53.00	53.03	53.91	53.95	54.30	54.32	54.53
Al <sub>2</sub> O <sub>3</sub>	16.31	16.50	16.93	16.95	16.53	18.47	17.22	17.19	17.63	15.87	16.25	15.76	15.62	15.58	16.14	17.25	16.96	16.96	17.99	18.37
Fe <sub>2</sub> O <sub>3</sub> <sup>T</sup>	9.91	9.96	9.51	8.86	8.67	7.20	8.73	7.93	7.82	9.37	8.42	9.16	9.21	9.10	9.28	7.12	8.24	8.59	7.79	7.47
TiO <sub>2</sub>	0.85	0.86	0.87	0.87	1.02	0.86	1.00	0.71	0.97	0.88	0.81	0.80	0.80	0.79	0.94	0.90	0.95	0.93	0.91	0.90
MnO	0.15	0.15	0.14	0.11	0.11	0.10	0.09	0.13	0.12	0.13	0.12	0.14	0.12	0.12	0.13	0.13	0.12	0.12	0.09	0.10
CaO	9.13	9.16	8.60	7.89	6.22	6.24	5.28	6.75	5.29	7.51	8.14	8.40	8.22	8.39	7.57	6.64	7.10	6.87	6.90	5.93
MgO	6.34	6.72	5.23	4.96	4.50	2.78	3.12	4.54	3.61	6.04	6.57	6.53	6.56	6.70	5.64	4.08	3.81	4.28	3.52	3.51
K <sub>2</sub> O	2.16	2.98	3.13	3.34	3.91	4.19	4.12	3.63	4.20	3.05	3.02	2.97	2.90	2.91	3.30	3.82	3.76	3.63	3.71	3.79
Na <sub>2</sub> O	2.99	2.10	2.14	2.66	3.24	2.89	3.55	2.86	3.52	3.66	3.21	3.01	3.09	3.01	3.55	4.20	3.77	3.80	3.91	4.30
P <sub>2</sub> O <sub>5</sub>	0.31	0.32	0.35	0.37	0.56	0.45	0.63	0.35	0.61	0.55	0.46	0.43	0.42	0.42	0.51	0.64	0.51	0.51	0.57	0.62
Total	99.89	100.45	99.00	99.38	99.79	98.95	99.53	100.16	99.89	99.29	99.36	99.65	99.45	99.61	99.58	98.06	98.66	99.48	99.14	98.90
Trace elements (ppm)																				
Ni	21	26	13	12	34	16	21	13	19	46	63	55	58	56	55	36	27	27	26	20
Cr	110	112	57	75	67	39	48	34	43	149	151	167	167	167	180	114	75	65	38	32
Sc	29	31	25	22	13	14	15	21	11	22	16	25	26	26	23	21	19	13	16	
V	229	226	204	214	181	155	148	165	153	203	171	207	198	191	214	204	226	206	190	184
Ba	955	933	1295	1596	1652	1590	1724	1525	1666	1591	1526	1365	1319	1334	1849	2835	2003	1955	1979	1984
Rb	57	51	39	58	107	62	113	64	119	90	81	60	66	61	102	115	91	87	98	118
Sr	866	853	1114	1004	1178	1365	1194	1153	1225	999	1087	969	900	921	1321	1678	1471	1466	1324	1355
Zr	102	101	125	116	236	160	253	133	252	149	143	124	121	119	154	172	166	165	171	184
Y	16	17	15	15	20	15	21	13	20	16	14	14	14	13	17	17	16	16	15	16
Nb	4.9	5.0	7.3	6.5	15.6	8.6	17.2	5.6	17.3	8.7	6.5	6.3	5.6	5.7	8.5	8.6	8.6	8.4	8.8	9.1
Pb	12	9	13	14	27	23	32	15	26	17	19	12	13	13	16	25	20	20	25	23
Th	5	7	7	6	16	5	17	7	14	5	8	2	5	4	4	9	10	9	6	7
La	28		42.0			78.4										58.2				
Ce	50.5		77.0			148.2										98.6				
Pr																10.78				
Nd	21		36.0			52.1										40.9				
Sm	5.3		5.5			8.89										6.68				
Eu	1.58		1.73			2.35										2.05				
Gd																4.90				
Tb	0.5		0.68			1.01										0.65				
Dy																3.36				
Ho																0.64				
Er																1.64				
Tm																0.23				
Yb	1.7		1.8			2.5										1.4				
Lu	0.29		0.21			0.31										0.23				
( <sup>87</sup> Sr/ <sup>86</sup> Sr) <sub>i</sub>			0.704337			0.704285										0.704798				
( <sup>143</sup> Nd/ <sup>144</sup> Nd) <sub>i</sub>			0.511501			0.511767										0.511689				

TABLE DR2. CONTINUED

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Strat Group:	Copper Lakes Intrusive Series															Dikes				
Sample:	SV99-1	SV99-16	SV97-38	SV99-7	SV97-31	SV98-18	SV99-17	SV98-20	SV98-11	SV97-30	SV98-13	SV98-7	SV97-22	SV98-17	SV97-2	SV98-12	SV97-33	SV99-18		
Unnormalized major element results (wt%)																				
SiO <sub>2</sub>	61.22	62.94	63.76	64.13	51.99	52.07	52.64	52.66	53.25	53.73	53.75	53.81	54.84	55.19	55.24	57.38	60.58	76.54		
Al <sub>2</sub> O <sub>3</sub>	18.24	17.68	17.14	18.10	16.03	14.50	13.75	15.46	17.26	17.56	17.94	17.31	19.68	19.61	18.10	19.44	17.93	13.38		
Fe <sub>2</sub> O <sub>3</sub> <sup>T</sup>	4.46	3.42	3.52	3.26	8.82	7.48	8.30	8.37	6.66	7.12	6.32	8.69	5.69	5.24	7.76	4.54	4.22	0.24		
TiO <sub>2</sub>	0.39	0.26	0.31	0.32	1.00	0.75	0.79	0.88	0.83	0.84	0.84	0.96	0.86	0.84	0.92	0.65	0.38	0.01		
MnO	0.11	0.08	0.11	0.06	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.15	0.09	0.10	0.11	0.10	0.10	B.D.		
CaO	3.27	2.30	2.79	2.13	7.19	8.46	8.14	7.64	4.85	5.21	4.50	7.53	5.54	4.94	5.20	3.67	3.48	2.52		
MgO	1.70	0.88	1.60	1.05	5.16	9.55	8.05	4.58	3.87	3.76	3.31	3.92	2.56	2.09	3.02	1.48	1.74	0.09		
K <sub>2</sub> O	6.25	5.91	5.72	5.95	3.36	2.78	2.64	3.71	4.20	3.44	4.29	3.62	3.89	5.73	4.48	5.79	4.36	3.99		
Na <sub>2</sub> O	4.43	5.63	4.19	4.43	4.61	3.35	4.70	4.69	6.01	6.52	6.03	3.12	5.39	3.68	4.43	4.78	5.55	2.88		
P <sub>2</sub> O <sub>5</sub>	0.28	0.15	0.18	0.22	0.76	0.50	0.64	0.64	0.76	0.80	0.78	0.60	0.58	0.55	0.56	0.43	0.26	0.03		
Total	100.07	99.10	99.14	99.42	98.29	99.06	99.14	98.11	97.05	98.31	97.09	99.11	98.54	97.42	99.26	98.25	98.60	99.68		
Trace elements (ppm)																				
Ni	16	10	23	16	51	242	148	67	37	40	32	28	23	8	7	4	18	2		
Cr	39	21	49	33	120	505	353	164	108	69	70	86	32	10	17	1	41	B.D.		
Sc	7	4	6	3	22	23	21	21	12	11	7	22	7	9	17	8	5	B.D.		
V	86	62	58	53	238	173	198	192	182	204	165	234	136	146	197	77	78	6		
Ba	2545	2465	3210	3189	2907	2486	2783	2737	3949	3566	4068	2104	3361	2721	3821	3195	2545	1059		
Rb	127	123	125	122	135	89	102	151	174	207	161	69	119	98	120	140	121	116		
Sr	2001	1507	2167	2214	1526	1052	1218	1251	1236	1421	1574	1299	1756	1319	1019	1244	2115	742		
Zr	215	353	246	202	180	137	119	160	173	179	190	148	220	180	160	206	262	21		
Y	12	14	12	10	17	15	13	16	17	17	15	17	16	15	17	19	13	3		
Nb	17.7	20.5	23.7	20.2	9.8	7.0	6.4	9.2	10.3	11.6	11.4	7.2	13.0	10.8	10.0	13.1	19.0	1.0		
Pb	24	44	44	23	24	20	25	21	36	32	35	16	31	23	24	24	28	25		
Th	16	23	17	22	9	5	6	8	6	8	8	7	8	9	7	10	16	39		
La				70.5	70.01		36.9		35.5	59.6			61.5			59.5	66.0	77.2		
Ce				111.1	102.16		65.3		62.7	101.0			104.1			101.0	107.0	122.54		
Pr					9.57		7.20		6.92	10.89			11.05			10.79	-	11.62		
Nd					37.6		30.80		27.9	27.6		41.0			41.7	39.9	40.5	39.26		
Sm					4.65		4.39		5.52	5.54		7.04			6.81	6.60	5.2	5.77		
Eu					1.27		1.22		1.59	1.65		2.14			2.02	2.08	1.47	0.77		
Gd					2.82		4.09		4.22	5.08			4.64			4.79	-	3.18		
Tb					0.55		0.38		0.57	0.59		0.64			0.61	0.65	0.73	0.30		
Dy							2.05		2.97	3.13		3.20			3.25	3.47	-	1.10		
Ho							0.41		0.54	0.60		0.58			0.60	0.65	-	0.15		
Er							1.11		1.38	1.54		1.48			1.52	1.70	-	0.29		
Tm							0.17		0.19	0.22		0.21			0.22	0.25	-	0.03		
Yb							1.4		1.15	1.1		1.2			1.3	1.6	1.2	0.2		
Lu							0.19		0.19	0.18		0.21			0.22	0.26	0.14	0.03		
( <sup>87</sup> Sr/ <sup>86</sup> Sr) <sub>i</sub>					0.704212				0.705126	0.705137			0.704544			0.704734	0.704270	-		
( <sup>143</sup> Nd/ <sup>144</sup> Nd) <sub>i</sub>					0.511974				0.511679	0.511641			0.511637			0.511961	0.511952	-		

Note: Major and trace elements Ni-Th by XRF. REE in normal type by ICP-MS, REE in *italic* type by INAA. Initial isotopic ratios calculated at 48.75 Ma. B.D. - below detection

TABLE DR3. ANALYSES OF OLIVINE PHENOCRYSTS IN SUNLIGHT BASALTIC LAVAS

Sample:		SV98-3																
Grain:		1c	2c	2r	3c	4c	5c	5r	6c	6r	7c	8c	9c	10c	11c	11r	12c	13c
SiO <sub>2</sub>		39.57	39.27	38.42	39.18	38.65	39.05	38.37	39.22	38.81	39.30	39.04	39.53	39.04	40.76	39.54	38.40	39.39
TiO <sub>2</sub>		0.02	0.01	0.05	0.01	0.01	0.00	0.04	0.02	0.02	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.03
Al <sub>2</sub> O <sub>3</sub>		0.03	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.02	0.03	0.04	0.04	0.05	0.04	0.02	0.03	0.02
FeO		16.74	16.66	16.77	17.49	17.25	17.41	16.64	17.33	16.74	17.20	16.73	16.62	16.43	9.79	16.12	17.03	16.96
MnO		0.31	0.30	0.32	0.31	0.39	0.33	0.29	0.29	0.30	0.26	0.33	0.29	0.26	0.14	0.33	0.29	0.30
MgO		44.03	44.35	44.04	43.38	43.90	43.77	44.49	43.88	44.30	43.48	44.29	44.20	44.47	50.02	44.43	43.84	43.79
CaO		0.20	0.27	0.25	0.18	0.26	0.14	0.27	0.18	0.26	0.23	0.18	0.25	0.18	0.06	0.20	0.20	0.21
NiO		0.27	0.19	0.22	0.28	0.19	0.25	0.23	0.25	0.22	0.28	0.28	0.26	0.30	0.37	0.23	0.27	0.25
Fo		82	83	82	82	82	83	82	83	82	83	83	83	90	83	82	82	

  

Sample:		SV98-4														
Grain:		1c	2c	3c	4c	5c	6c	7c	8c	9c	10c	10r	11c	11r	12c	13c
SiO <sub>2</sub>		38.86	39.32	39.54	39.12	38.49	39.06	38.58	38.74	38.53	39.46	38.45	38.79	38.84	38.33	39.24
TiO <sub>2</sub>		0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.03	0.00	0.03	0.03	0.02	0.02	0.00	0.00
Al <sub>2</sub> O <sub>3</sub>		0.02	0.04	0.03	0.02	0.03	0.03	0.04	0.05	0.03	0.02	0.03	0.05	0.05	0.05	0.03
FeO		16.48	16.95	14.08	16.78	16.73	16.54	16.85	17.45	17.13	14.17	21.06	17.56	18.24	16.61	16.72
MnO		0.34	0.34	0.18	0.33	0.30	0.32	0.35	0.31	0.30	0.26	0.39	0.31	0.41	0.29	0.34
MgO		44.21	43.61	46.68	44.04	44.14	44.28	44.10	43.46	43.84	46.32	40.77	43.44	42.87	44.15	44.31
CaO		0.28	0.19	0.09	0.22	0.19	0.17	0.26	0.20	0.19	0.08	0.25	0.17	0.27	0.22	0.23
NiO		0.23	0.19	0.37	0.21	0.20	0.25	0.25	0.25	0.24	0.26	0.14	0.29	0.19	0.21	0.23
Fo		83	82	86	82	83	83	82	82	82	85	78	82	81	83	83

  

Sample:		SV98-5														
Grain:		1c	1r	2c	2r	3c	4c	5c	6c	7c	8c	9c	10c	11c	11r	
SiO <sub>2</sub>		38.45	39.12	39.83	39.13	38.88	39.34	39.14	39.49	38.78	39.46	38.71	39.54	39.14	39.33	
TiO <sub>2</sub>		0.03	0.04	0.02	0.00	0.04	0.00	0.02	0.00	0.00	0.06	0.00	0.03	0.02	0.00	
Al <sub>2</sub> O <sub>3</sub>		0.04	0.09	0.02	0.02	0.04	0.06	0.03	0.05	0.03	0.04	0.05	0.04	0.04	0.06	
FeO		17.41	16.79	13.91	14.97	16.35	17.34	16.61	17.74	16.46	17.05	16.77	17.00	16.40	16.68	
MnO		0.28	0.36	0.25	0.28	0.33	0.33	0.35	0.30	0.35	0.32	0.32	0.35	0.30	0.27	
MgO		42.92	43.56	46.25	45.75	43.86	43.35	44.00	43.29	43.85	43.81	44.06	44.05	43.87	43.85	
CaO		0.19	0.24	0.19	0.16	0.30	0.22	0.25	0.18	0.27	0.21	0.26	0.23	0.25	0.27	
NiO		0.18	0.21	0.25	0.23	0.24	0.23	0.20	0.26	0.25	0.24	0.28	0.23	0.16	0.19	
Fo		82	82	86	85	83	82	83	81	83	82	82	82	83	82	

Note: c = core analyses; r = rim analyses

TABLE DR4. ANALYSES OF PLAGIOCLASE IN SUNLIGHT BASALTIC AND SHOSHONITIC LAVAS

Sample:	SV98-5																			
Grain:	1c	1r	2c	2r	3c	3r	4c	4r	5c	5r	6c	6r	7c	7r	8c	8r	9c	9r	10c	10r
SiO <sub>2</sub>	50.48	52.00	50.93	51.46	50.73	51.88	51.04	51.12	50.36	51.08	51.32	51.13	51.62	51.82	51.84	51.54	51.09	51.69	51.79	51.89
Al <sub>2</sub> O <sub>3</sub>	28.84	28.40	29.61	29.29	29.30	28.92	29.44	29.05	29.06	29.15	28.96	28.64	28.65	28.39	28.38	28.42	29.09	28.41	28.35	28.28
Fe <sub>2</sub> O <sub>3</sub>	1.12	0.90	1.00	1.10	0.94	1.05	0.92	1.00	1.03	0.97	0.92	1.00	0.89	0.97	0.93	0.92	0.95	1.11	1.03	1.09
CaO	13.07	11.94	13.34	12.33	13.00	12.21	12.85	12.57	13.03	12.64	12.54	12.16	12.06	11.84	11.95	12.25	12.83	11.78	11.87	11.87
SrO	0.49	0.52	0.52	0.45	0.52	0.55	0.48	0.54	0.46	0.45	0.48	0.56	0.47	0.54	0.53	0.54	0.56	0.48	0.50	0.48
BaO	0.21	0.22	0.17	0.21	0.18	0.31	0.24	0.25	0.24	0.34	0.24	0.20	0.30	0.26	0.26	0.27	0.19	0.45	0.28	0.30
Na <sub>2</sub> O	3.39	3.68	3.25	3.81	3.48	4.04	3.43	3.49	3.39	3.80	3.55	3.81	3.65	3.91	3.76	3.82	3.49	4.29	3.69	4.09
K <sub>2</sub> O	0.86	1.09	0.86	0.36	0.90	0.37	0.98	1.03	0.87	0.55	1.00	0.96	1.11	0.88	1.17	0.88	0.99	0.45	1.18	0.83
An	64	59	65	62	63	60	62	61	63	62	61	59	59	58	58	59	62	57	58	58

  

Sample:	SV98-4													
Grain:	1c	1r	2c	2r	3c	3r	4c	4r	5c	5r	6c	6r	7c	7r
SiO <sub>2</sub>	51.69	54.06	51.35	61.67	51.02	52.10	51.47	51.29	51.08	52.20	50.48	52.83	50.71	50.89
Al <sub>2</sub> O <sub>3</sub>	29.15	26.69	29.60	22.09	29.53	29.15	29.58	30.00	29.68	29.25	29.54	27.65	29.85	29.97
Fe <sub>2</sub> O <sub>3</sub>	0.93	0.73	0.83	0.67	0.90	0.87	0.88	0.98	0.92	0.79	0.82	1.00	0.86	0.91
CaO	11.79	10.00	12.61	3.81	12.57	11.83	12.99	13.14	12.62	12.32	12.69	10.63	12.87	12.69
SrO	0.39	0.41	0.51	0.11	0.46	0.48	0.46	0.48	0.54	0.44	0.50	0.45	0.51	0.51
BaO	0.25	0.71	0.33	0.67	0.25	0.27	0.25	0.23	0.24	0.30	0.24	0.43	0.24	0.24
Na <sub>2</sub> O	4.24	4.87	3.71	6.41	3.80	4.33	3.60	3.77	3.85	4.25	4.03	5.04	3.68	3.94
K <sub>2</sub> O	0.42	1.77	0.70	4.63	0.66	0.32	0.68	0.40	0.61	0.34	0.30	0.41	0.69	0.27
An	58	47	61	18	61	58	63	63	61	59	61	51	62	62

  

Sample:	SV98-3									
Grain:	1c	1r	2c	2r	3c	3r	4c	4r	5c	5r
SiO <sub>2</sub>	51.10	52.10	51.35	51.31	51.17	55.02	52.19	52.15	51.19	55.17
Al <sub>2</sub> O <sub>3</sub>	29.29	29.04	29.18	29.86	29.60	27.22	28.92	29.07	29.43	27.43
Fe <sub>2</sub> O <sub>3</sub>	0.81	0.87	1.11	0.88	0.96	1.06	0.67	0.86	0.80	0.94
CaO	12.39	12.00	12.72	12.89	12.70	10.06	11.83	12.00	12.52	9.44
SrO	0.49	0.46	0.55	0.51	0.48	0.40	0.44	0.43	0.50	0.41
BaO	0.27	0.29	0.26	0.21	0.15	0.53	0.28	0.25	0.21	0.52
Na <sub>2</sub> O	3.73	4.18	3.59	3.96	3.72	5.73	3.75	4.39	3.84	5.80
K <sub>2</sub> O	0.80	0.78	0.96	0.30	0.69	0.41	1.12	0.28	0.65	0.46
An	61	58	61	62	62	47	58	58	61	45

  

Sample:	SV98-2									
Grain:	1c	1r	2c	2r	3c	3r	4c	4r	5c	5r
SiO <sub>2</sub>	47.58	50.05	45.84	49.36	45.46	48.87	46.22	49.77	47.06	51.43
Al <sub>2</sub> O <sub>3</sub>	32.63	30.14	32.73	30.52	33.51	31.42	32.68	30.98	32.79	29.83
Fe <sub>2</sub> O <sub>3</sub>	0.80	1.14	0.98	0.88	0.86	0.93	0.89	0.89	0.76	0.73
CaO	16.02	13.17	16.44	13.69	17.15	14.96	16.83	14.26	16.67	12.87
SrO	0.39	0.32	0.39	0.45	0.39	0.39	0.43	0.37	0.40	0.41
BaO	0.15	0.29	0.22	0.15	0.15	0.12	0.13	0.17	0.07	0.24
Na <sub>2</sub> O	2.12	3.45	1.73	3.24	1.39	2.65	1.39	3.00	1.72	3.71
K <sub>2</sub> O	0.11	0.21	0.09	0.24	0.09	0.09	0.24	0.23	0.10	0.26
An	79	66	82	68	86	74	85	71	83	64

  

Sample:	SV97-7									
Grain:	1c	1r	2c	2r	3c	3r	4c	4r	5c	5r
SiO <sub>2</sub>	50.29	52.43	49.93	52.00	48.12	51.84	48.55	51.51	52.8	47.55
Al <sub>2</sub> O <sub>3</sub>	30.86	29.11	30.89	29.53	31.86	29.25	31.52	29.02	28.51	31.24
Fe <sub>2</sub> O <sub>3</sub>	0.75	0.75	0.74	0.73	0.77	0.79	0.94	0.85	0.80	0.70
CaO	14.23	12.36	14.41	12.85	15.9	12.49	15.03	12.55	12.01	15.07
SrO	0.24	0.32	0.24	0.36	0.31	0.30	0.35	0.35	0.28	0.29
BaO	0.08	0.13	0.14	0.08	0.10	0.07	0.10	0.20	0.17	0.08
Na <sub>2</sub> O	3.07	4.03	2.82	3.79	2.22	3.96	2.49	3.9	4.04	2.4
K <sub>2</sub> O	0.41	0.71	0.42	0.62	0.29	0.65	0.20	0.65	0.74	0.29
An	70	60	71	62	78	61	75	61	59	76

TABLE DR4. CONTINUED

Sample:		SV97-13									
Grain:		1c	1r	2c	2r	3c	3r	4c	4r	5c	5r
SiO <sub>2</sub>		49.46	53.94	48.79	53.45	51.34	53.81	52.74	55.13	52.17	55.15
Al <sub>2</sub> O <sub>3</sub>		31.14	27.78	31.22	27.60	28.98	27.97	28.59	27.17	28.61	27.22
Fe <sub>2</sub> O <sub>3</sub>		0.88	1.07	0.80	1.20	1.12	0.98	0.87	0.97	0.78	1.11
CaO		14.86	11.36	14.89	11.00	12.66	11.27	11.78	10.51	12.00	10.47
SrO		0.29	0.26	0.30	0.25	0.21	0.21	0.26	0.26	0.29	0.26
BaO		0.11	0.22	0.09	0.17	0.17	0.18	0.14	0.21	0.14	0.26
Na <sub>2</sub> O		2.60	4.51	2.68	4.4	3.73	4.44	4.03	4.98	3.89	4.89
K <sub>2</sub> O		0.41	0.78	0.41	0.97	0.57	0.76	0.88	0.90	0.80	0.85
An		73	55	73	54	62	55	58	51	59	51

  

Sample:		SV97-24									
Grain:		1c	1r	2c	2r	3c	3r	4c	4r	5c	5r
SiO <sub>2</sub>		48.94	51.44	49.37	54.52	51.06	52.16	48.01	52.46	51.47	51.53
Al <sub>2</sub> O <sub>3</sub>		31.08	29.47	30.26	27.28	30.26	28.12	30.09	28.65	29.56	28.91
Fe <sub>2</sub> O <sub>3</sub>		0.96	1.02	1.04	1.03	0.73	1.46	2.08	0.98	1.06	1.10
CaO		14.72	13.27	13.83	10.51	13.99	12.23	14.82	12.24	13.35	12.69
SrO		0.16	0.10	0.18	0.11	0.15	0.14	0.13	0.11	0.15	0.14
BaO		0.15	0.16	0.03	0.19	0.06	0.13	0.10	0.06	0.10	0.13
Na <sub>2</sub> O		2.70	3.82	3.14	5.21	3.45	3.94	2.22	4.15	3.64	3.81
K <sub>2</sub> O		0.26	0.43	0.33	0.49	0.33	0.48	0.37	0.55	0.36	0.46
An		73	64	69	51	68	61	76	60	65	63

  

Sample:		SV97-22							
Grain:		1c	1r	2c	2r	3c	3r	4c	4r
SiO <sub>2</sub>		51.82	52.49	50.47	53.65	51.71	53.49	53.37	52.68
Al <sub>2</sub> O <sub>3</sub>		29.1	29.04	30.07	27.13	28.95	28.48	28.43	28.87
Fe <sub>2</sub> O <sub>3</sub>		0.76	0.79	0.78	0.74	0.71	0.73	0.79	0.79
CaO		12.48	12.22	13.42	9.13	12.5	11.49	11.51	12.08
SrO		0.38	0.40	0.39	0.26	0.43	0.41	0.37	0.47
BaO		0.21	0.25	0.17	0.59	0.19	0.25	0.29	0.15
Na <sub>2</sub> O		3.93	3.87	3.11	3.65	3.87	4.31	4.32	3.89
K <sub>2</sub> O		0.60	0.55	0.49	2.81	0.49	0.70	0.74	0.59
An		61	61	67	47	61	56	56	60

Note: c = core analyses; r = rim analyses