



Major chemical constituents, in percent, of auger-hole samples from the Princeville Ranch and Kilauea area, Kauai, Hawaii—Continued

(Samples with a laboratory number were analyzed by rapid methods described by Shastri and Branson (1960). Analyte: P. L. D. Elmer, S. D. Bost, J. H. Bostow, and Gillian Chao. Samples without a laboratory number were analyzed by X-ray fluorescence methods by R. M. Brantley.)

Auger hole	Sample depth interval (feet)	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	FeO	TiO ₂	Loss on ignition	Laboratory No.
PR-34	1-4	1.2	26.0	43.2	.....	5.8	.....	.....
	4-6	1.7	31.7	41.1	.....	5.6	.....	.....
	6-8	2.5	31.7	38.5	.....	5.3	.....	.....
	8-10	1.2	42.0	38.1	.....	4.8	.....	.....
PR-35	1-4	6.8	24.2	38.7	46	7.1	21.9	15791
	4-9	4.8	31.4	30.8	1.2	7.0	23.6	15791
	9-14	5.0	30.2	32.6	1.6	6.6	22.4	15791
	14-19	7.8	30.0	31.8	1.4	6.3	21.8	15791
PR-37	2-5.5	1.5	18.8	47.2	.....	8.0	.....	.....
	5.5-9	1.5	32.9	39.2	.....	6.6	.....	.....
	9-14	1.5	36.0	37.0	.....	5.5	.....	.....
	14-19	3.8	32.1	40.0	.....	5.5	.....	.....
PR-38	1.5-4	2.6	23.5	46.0	.....	7.4	.....	.....
	4-8	1.4	23.2	44.6	.....	7.8	.....	.....
	8-9	2.8	26.8	40.5	.....	7.6	.....	.....
	9-14	2.7	26.2	42.1	.....	7.5	.....	.....
PR-40	1-4	1.5	20.7	45.0	.....	7.1	.....	.....
	4-9	1.3	27.7	39.5	.....	6.9	.....	.....
	9-14	2.7	28.2	38.0	.....	4.7	.....	.....
	14-19	4.4	22.0	38.0	.....	4.1	.....	.....
PR-41	0.9-3	1.3	26.6	40.4	.....	6.6	.....	15330
	3-8	1.4	28.8	38.2	.....	6.6	.....	15330
	8-13	1.3	26.1	38.8	.....	6.4	.....	15330
	13-18	1.8	28.1	40.2	.....	6.9	.....	15330
PR-46	0.3-5	35.2	32.7	8	.....	9.8	.....	.....
	5-10	15.8	32.7	8	.....	9.8	.....	.....
	10-15	31.2	38.5	1.0	.....	8.0	.....	.....
	15-20	32.2	41.2	1.6	.....	7.1	.....	.....
PR-49	0-4	4.4	25.3	40.6	.....	7.1	.....	15754
	4-9	28.4	.....	.....	.....	.....	.....	15754
	9-14	28.6	.....	.....	.....	.....	.....	15754
	14-19	22.0	28.6	28.8	.....	5.8	.....	15754
K-4	1-4	11.0	21.0	34.7	.....	5.7	.....	.....
	4-8	7.3	22.8	37.8	.....	6.4	.....	.....
	8-29	.....	.....	.....	.....	.....	.....	.....
	1-4	11.0	19.2	38.0	.....	5.7	.....	.....
K-11	4-9	9.8	24.7	35.7	.....	6.7	.....	.....
	9-14	10.0	28.4	36.0	.....	4.9	.....	.....
	14-19	11.7	29.2	34.4	.....	5.0	.....	.....
	19-34	.....	.....	.....	.....	.....	.....	.....
K-14	1.5-4	3.8	21.5	40.4	.....	7.8	.....	.....
	4-9	3.5	22.2	38.2	.....	6.4	.....	.....
	9-14	6.7	22.7	35.6	.....	6.4	.....	.....
	14-19	17.0	23.2	29.3	.....	4.0	.....	.....
K-15	0.5-4	8.4	17.3	40.0	.....	7.1	.....	.....
	4-9	7.2	24.0	36.2	.....	6.6	.....	.....
	9-14	6.7	21.5	31.7	.....	5.9	.....	.....
	14-19	7.0	24.8	33.5	.....	5.7	.....	.....
K-17	0.5-4	8.3	25.0	35.4	.....	6.6	.....	.....
	4-9	11.8	27.7	32.2	.....	6.6	.....	.....
	9-14	22.2	26.5	28.7	.....	5.3	.....	.....
	14-19	25.7	29.4	27.8	.....	5.0	.....	.....
K-21	0-4	3.4	20.0	40.5	.....	7.4	.....	.....
	4-9	5.8	22.3	36.9	.....	6.9	.....	.....
	9-14	11.8	26.7	32.2	.....	6.4	.....	.....
	14-19	12.5	24.8	36.1	.....	6.2	.....	.....
K-22	1-5	4.0	20.6	39.8	.....	7.0	.....	.....
	5-9	9.2	21.7	35.8	.....	6.5	.....	.....
	9-14	11.8	26.7	32.2	.....	6.4	.....	.....
	14-19	15.0	27.0	30.8	.....	5.4	.....	.....
K-29	1-4	7.2	28.4	34.8	.....	7.0	.....	15740
	4-9	20.3	31.2	.....	.....	.....	.....	15740
	9-14	29.2	28.0	.....	.....	.....	.....	15740
	14-19	21.0	28.0	27.8	.....	4.8	.....	15740
K-32	1-6	30.8	40.8	2.6	.....	5.8	.....	.....
	6-7	20.3	38.0	2.7	.....	6.1	.....	.....
	6.7-11	28.0	40.4	2.4	.....	6.1	.....	.....
	11-15	30.5	40.5	2.5	.....	5.5	.....	.....
PR-3	1-4	13.0	21.8	34.9	2.4	5.6	20.1	157909
	4-4	14.6	21.4	36.3	2.6	5.6	18.7	157910
	6-14	15.4	22.2	36.9	1.9	6.0	16.4	157911
	14-19	8.6	33.4	28.0	1.6	4.5	22.0	157912
PR-9	0-4	7.0	21.2	41.9	.....	6.5	.....	.....
	4-10	10.8	25.1	37.6	.....	6.5	.....	.....
	10-15	18.5	23.0	38.7	.....	7.0	.....	.....
	15-19	26.8	26.7	29.3	.....	4.9	.....	.....
PR-11	1-4	4.7	16.5	43.5	.....	8.7	.....	.....
	4-9	1.3	22.3	40.1	.....	8.2	.....	.....
	9-14	9.0	22.6	38.7	.....	6.9	.....	.....
	14-19	14.7	23.1	34.7	.....	6.2	.....	.....
PR-13	1-4	2.4	15.9	47.6	.....	8.3	.....	.....
	4-9	2.0	24.2	42.6	.....	8.4	.....	.....
	9-14	1.7	26.2	43.1	.....	9.2	.....	.....
	14-19	4.1	18.8	42.6	.....	9.5	.....	.....
PR-15	1-4	2.4	21.9	43.5	1.8	8.3	21.1	157905
	4-9	2.2	20.9	47.0	.54	10.0	17.3	157906
	9-14	11.5	20.1	40.4	1.9	9.6	14.2	157907
	14-19	16.0	20.2	37.9	1.2	9.2	13.4	157908
PR-20	1-4	4.5	16.9	45.6	.....	7.8	.....	.....
	4-9	1.7	21.0	42.5	.....	7.4	.....	.....
	9-14	0.8	25.0	41.9	.....	7.4	.....	.....
	14-19	2.8	21.0	41.5	.....	7.3	.....	.....
PR-23	0-1	3.3	15.8	51.0	.....	7.3	.....	.....
	1-4	3.0	18.8	45.2	.....	7.1	.....	.....
	4-9	1.0	30.2	40.1	.....	6.7	.....	.....
	9-19	3.8	28.5	39.5	.....	6.1	.....	.....
K-36	1-6	31.7	35.0	5.6	.....	5.7	.....	157909
	6-10	28.0	27.2	20.5	.....	5.2	.....	157910
	10-15	19.8	18.3	36.0	.....	5.0	.....	157911
	15-20	30.0	40.4	2.4	.....	5.0	.....	157912
K-41	0.7-4	3.4	21.5	44.3	.....	9.4	.....	15740
	4-9	21.6	.....	.....	.....	.....	.....	15740
	9-14	14.8	33.0	38.3	.....	7.8	.....	15740
	14-19	.....	.....	.....	.....	.....	.....	.....
K-44	1-4	6.3	17.2	39.8	.....	8.5	.....	.....
	4-9	12.4	22.7	34.7	.....	7.0	.....	.....
	9-14	16.3	18.3	32.2	.....	6.5	.....	.....
	14-19	18.0	26.3	31.2	.....	6.6	.....	.....
K-49	1-4	3.5	25.3	36.7	.....	6.9	.....	.....
	4-9	35.9	.....	.....	.....	.....	.....	.....
	9-14	5.3	21.0	38.7	.....	7.5	.....	.....
	14-19	10.2	22.0	35.5	.....	7.2	.....	.....
K-54	0-4	1.2	23.5	30.8	.....	8.8	.....	.....
	4-9	1.7	21.7	41.2	.....	8.9	.....	.....
	9-14	6.8	23.4	40.8	.....	8.9	.....	.....
	14-19	11.8	24.3	34.0	.....	7.2	.....	.....
K-59	1-4	4.6	22.7	43.2	.....	8.2	.....	15748
	4-9	22.8	37.8	.....	.....	.....	.....	15749
	9-14	24.8	.....	.....	.....	.....	.....	15748
	14-19	11.4	25.1	38.9	.....	7.2	.....	15749
K-69	0.5-4	2.0	17.5	42.5	.....	8.9	.....	.....
	4-9	9.3	25.7	34.7	.....	7.2	.....	.....
	9-14	11.0	26.5	33.2	.....	4.1	.....	.....
	14	.....	.....	.....	.....	.....	.....	.....
K-70	0.5-4	1.3	20.7	40.2	.....	7.4	.....	.....
	4-9	1.8	26.0	36.0	.....	7.5	.....	.....
	9-14	4.5	22.0	36.2	.....	7.6	.....	.....
	14-19	11.0	23.8	34.7	.....	7.3	.....	.....
K-78	0.7-4	2.7	20.2	40.4	.....	7.8	.....	.....
	4-9	2.2	24.8	40.5	.....	7.0	.....	.....
	9-14	2.5	27.8	37.4	.....	7.0	.....	.....
	14-19	10.0	28.4	32.9	.....	6.2	.....	.....
K-82	1-4	8.5	23.4	34.8	.....	7.1	.....	.....
	4-9	10.2	18.3	34.7	.....	7.5	.....	.....
	9-14	17.6	20.3	32.0	.....	7.3	.....	.....
	14-19	16.0	22.0	32.0	.....	6.3	.....	.....
K-89	0-4	6.8	20.0	35.0	.....	7.5	.....	.....
	4-9	6.8	20.7	36.1	.....	7.8	.....	.....
	9-14	9.0	20.0	34.1	.....	7.4	.....	.....
	14-19	12.7	20.8	31.4	.....	6.4	.....	.....
K-96	2-4	6.5	19.0	37.3	.....	7.0	.....	.....
	4-9	6.5	21.3	37.5	.....	7.2	.....	.....
	9-14	12.0	22.0	34.0	.....	6.5	.....	.....
	10-39	.....	.....	.....	.....	.....	.....	.....
K-105	0.5-4	3.5	23.3	37.2	.....	7.3	.....	.....
	4-9	11.8	24.7	36.8	.....	6.8		