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Preliminary potassium-argon age data on volcanic rocks of Long Valley caldera and vicinity, Mono County, California, as of 22 February 1974.

G. B. Dalrymple and M. A. Lanphere, Branch of Isotope Geology, U.S. Geological Survey, 345 Middlefield Road, Menlo Park, California 94025.

Note: The calculated ages are preliminary and subject to change as additional analytical data are acquired.

Sample no.	Location* N. lat.	W. long.	Rock type	Material dated	K_2O† (wgt. %)	$^{40}Ar_{rad}$ (mol/gm)	100 $^{40}Ar_{rad}$ / $^{40}Ar_{total}$	Calculated age‡ (10^6 years)
72G001	37°39.6'	118°56.2'	Aphyric rhyolite	Obsidian	5.10 (2)	4.948 x 10^{-12} 5.189	29.1 43.5	0.672 ± 0.016
72G002	37°40.6'	118°55.1'	Biotite rhyolite	Obsidian	5.24 (2)	5.125 5.070	53.4 16.5	0.658 ± 0.027
72G003	37°40.7'	118°53.4'	Pyroxene rhyolite	Obsidian	5.25 (4)	5.199 5.131	16.7 34.6	0.668 ± 0.029
72G004	37°38.7'	118°53.7'	Pyroxene rhyolite	Obsidian	5.22 (5)	5.312 5.057	34.7 57.0	0.670 ± 0.014
72G005	37°38.5'	118°48.3'	Hornblende-biotite rhyolite	Sanidine	10.96 (2)	5.263	48.2	0.324 ± 0.010
72G006	37°39.7'	118°52.6'	Pyroxene rhyolite	Obsidian	5.02 (2)	5.583 5.280	46.4 45.3	0.732 ± 0.016
72G007	37°40.6'	118°59.3'	Hornblende-biotite rhyolite	Sanidine	10.88 (2)	1.724	64.4	0.106 ± 0.003
72G008	37°39.5'	118°58.8'	Hornblende-biotite rhyolite	Sanidine	11.24 (2)	1.330 1.590	9.1 33.5	0.094 ± 0.006
72G009	37°39.3'	118°58.4'	Hornblende-biotite rhyolite	Sanidine	11.32 (2)	1.735 1.744	38.8 34.2	0.103 ± 0.002
72G010	37°43.6'	118°54.5'	Rhyolite	Obsidian	5.07 (2)	5.145 4.967	43.9 53.0	0.674 ± 0.014
72G011	37°43.8'	118°54.0'	Hornblende-biotite rhyolite	Sanidine	11.64 (2)	7.293 7.440	40.4 40.7	0.468 ± 0.010
72G012	37°43.2'	118°53.0'	Hornblende-biotite rhyolite	Sanidine	10.45 (2)	8.023 7.730	62.3 76.0	0.510 ± 0.011
72G013	37°43.4'	118°54.6'	Rhyolite	Obsidian	5.14 (2)	4.992 5.036	54.5 41.6	0.658 ± 0.014
72G014	37°41.9'	118°56.2'	Pyroxene rhyolite	Obsidian	5.15 (2)	4.958 4.725	57.4 34.5	0.636 ± 0.013
72G015	37°40.3'	118°57.5'	Basalt	Whole-rock	1.654(2)	0.366	3.1	0.149 ± 0.093
72G016	37°40.2'	118°57.4'	Basalt	Whole-rock	1.663(2)	0.372	8.8	0.151 ± 0.027
72G017	37°41.8'	119° 0.7'	Rhyolite	Sanidine	10.63 (2)	1.890 1.728	24.8 32.2	0.115 ± 0.004
73G008	37°43.0'	118°57.2'	Basalt	Whole-rock	1.997(2)	0.428	8.8	0.145 ± 0.015
73G009	37°45.0'	118°56.3'	Basalt	Whole-rock	1.60 (2)	0.271	13.3	0.114 ± 0.012
73G010	37°44.8'	118°55.8'	Olivine andesite	Whole-rock	3.02 (2)	12.79	70.2	2.87 ± 0.09

†The number in parentheses indicates the number of measurements.

‡$\lambda_c = 0.585 \times 10^{-10}\ yr^{-1}$, $\lambda_\beta = 4.72 \times 10^{-10}\ yr^{-1}$, $^{40}K/K_{total} = 1.19 \times 10^{-4}$ mol/mol. Errors are the estimated analytical precision at the two-thirds confidence level.

*The locations are also shown on three topographic maps, copies of which accompany this table.