**United States Department of the Interior
Geological Survey**

**Principal facts for 548 new gravity stations in
the Long Valley caldera and vicinity, California**

by

Carter W. Roberts, Robert F. Sikora and Robert C. Jachens

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Introduction

During the summers of 1983, 1984, and 1985, gravity measurements were made at 548 locations (Figure 1) in and around the Long Valley caldera in eastern California. The primary goal was to identify any gravity anomalies that might correlate with the zones of seismicity in the south moat area and to see if similar anomalies might be present at other locations. This report provides the principal facts for these stations.

Gravity Methods

Most of the gravity stations listed in this report were established with LaCoste and Romberg gravity meter G161. Those stations with a 1 in the last digit of the accuracy code were established with meters G8, D26, and G161 with each meter being used for two closed loops. A calibration factor, in addition to the factory calibration tables, was determined (Barnes and others, 1968) for each meter on the Mt. Hamilton calibration line (Robbins and others, 1974). These factors are 1.000612 for meter G8, 1.000999 for D26, and 1.000573 for G161. Observed gravity values are on the IGSN 71 datum (Morelli, 1974) and are based on ties to one or more of the following high-precision gravity stations which are described in a companion report: MLEQB1, MLEQ01, MLEQ02, CH225, 4JCM1982, A124REST, 1JD1952 and 8JCM82 (Roberts and Jachens, 1987). Observed gravity values for these high-precision stations are based on ties between two absolute gravity stations in Long Valley (Sasagawa, written communication 1985) and the primary base station MLEQB1.

Terrain corrections were made by a three-step process. The innermost corrections for Hayford-Bowie (1912) zones A and B (0 to 68 meters) were estimated in the field or were worked out later from notes made in the field. Ring templates were used with 1:24,000-scale topographic maps for zones C through D (590 meters, ITC code D) or in a few cases E1 (870 meters, ITC code e). From this distance to 166.7 km, terrain corrections were made by computer using a modification of a program by Plouff (1977) and terrain digitized at intervals of 15 seconds, 1 minute, and 3 minutes. Terrain corrections for most stations are thought to be accurate to within 10 percent. The same program calculated the free-air, Bouguer, latitude, and curvature corrections. Theoretical gravity at sea level was calculated using the Geodetic Reference System 1967 reference spheroid (International Union of Geodesy and Geophysics, 1971).

Isostatic corrections were made on all the data and are based on an Airy-Heiskanen model of compensation (Heiskanen and Vening Meinesz, 1958). The three-minute digital elevation model was used with a program by Jachens and Roberts (1981) to calculate the isostatic correction from each station to a radius of 166.7 km with an assumed sea level crustal thickness of 25 km, an upper crustal density of 2.67 g/cm³, and a lower crust to upper mantle density contrast of 0.4 g/cm³. Combined terrain and isostatic corrections for regions from 166.7 km to 180° were derived from published maps of Karki and others (1961).

The largest source of error in the anomaly values at many stations is the uncertainty of the station elevation. Most of the stations that are not at bench marks or points surveyed by the authors are at spot elevations determined photogrammetrically and not field checked. Such elevations are claimed to be good to one fourth the contour interval which means a possible error of about 5 meters or 1 milligal on a map with a 20 meter contour interval. In a few locations where control was unavailable, contour interpolation or altimetry was used.

Locations of all gravity stations are shown in figures 1 and 1A through 1F. The format of the principal facts data is described in table 1. A four digit accuracy code, described in table 2, has been assigned to each station

TABLE 1.— *Explanation of principal facts format*

Item	Explanation
STATION NAME ----	An alphanumeric combination of up to 8 characters used for station identification
LAT -----	Latitude in degrees and minutes, to 0.01 minute
LON -----	Longitude in degrees and minutes, to 0.01 minute
ELEV -----	Elevation, to 0.1 feet
OG -----	Observed gravity, to 0.01 mGal
AC -----	Four digit code describing the general location, elevation, latitude, and observed gravity accuracy
FAA -----	Free-air anomaly, to 0.01 mGal
ITC -----	Inner-zone terrain correction from 0.0 to 0.59 km or 0.87 km for a density of 2.67 g/cm ³ , to 0.01 mGal. D Single letter code indicates 0.59 km radius, code e indicates 0.87 km
TC -----	Total terrain correction from 0.0 to 166.7 km for a density of 2.67 g/cm ³ , to 0.01 mGal
CBA -----	Complete Bouguer anomaly reduced for a density of 2.67 g/cm ³ , to 0.01 mGal
ISO -----	Isostatic anomaly based on Airy-Heiskanen compensation, assumes sea level crustal thickness of 25 km, density of topography 2.67 g/cm ³ , and lower crust upper mantle density contrast of 0.40 g/cm ³ , to 0.01 mGal

TABLE 2. - Accuracy Codes

Location code (first digit)

A) Survey marks (vertical) - Topographic Maps (horizontal)

B — Base plate directly on USGS or USC&GS level-line bench mark.

M — Base plate directly on CDH or other bench mark.

V — Base plate directly on vertical angle (VABM) bench mark.

N — Base plate near USGS or USC&GS level line bench mark.

E — Base plate near bench marks of other agencies.

H — Base plate near vertical angle (VABM) bench mark.

P — Base plate on or near other reference marks that have been surveyed by the authors.

X — On or near Section Corners, $\frac{1}{4}$ Section Corners, and other property boundary markers.

D — Destroyed or not found bench or reference mark.

B) Map locations (vertical and horizontal)

F — Black spot elevations on published maps and spot elevations given to 0.1 meter on manuscript maps.

G — Brown spot elevations, elevations taken off original manuscripts, and "T" elevations on "Provisional" maps - not field checked.

W — Lake elevations.

C — Contour line interpolation.

Q — Stream gradient interpolation.

C) Air Photographs (vertical and horizontal)

T — Elevations determined by USGS National Mapping Division by Kern or Kelsh plotter.

K — elevations determined by others with Kern or Kelsh plotters.

D) Altimetry (vertical) - Topographic Maps (horizontal)

A — Altimetry - good control (2 or more altimeters, double loops etc.)

Elevation accuracy code (second digit)
Relative to 1929 USC&GS datum

	Elev. Approx.		
	Acc.	Gravity	
Code	Feet	Effect	Typical types of Elevation Data
1	±0.2	±0.01	On levelled BM
2	±0.3	±0.02	Beside BM
3	±1	±0.05	Transit or Total Station surveys
4	±2	±0.1	VABM, most black map elevations
5	±4	±0.2	Black elevations on old maps
6	±10	±0.5	Brown elevations and contour interpolation on maps with 40' contour interval
7	±20	±1.0	Brown elevations on maps with 80' contour interval
8	±40	±2.0	Contour interpolation on maps with 80' contour interval
9	±80	±5.0	Data from 1:250,000 scale maps
0	>80	>5.0	Poor altimetry

TABLE 2. - Accuracy Codes (continued)

Latitude accuracy code (third digit) (based on mean value of 1.45 mGal/minute at 37° Latitude)			
Code	Lat. Dist.	Approx. Gravity	Typical Map Measurement Requirements in inches
	Min.	Feet	Effect
1	±0.0075	±42	±0.01
2	±0.015	±84	±0.02
3	±0.035	±210	±0.05
4	±0.07	±420	±0.1
5	±0.14	±840	±0.2
6	±0.35	±2100	±0.5
7	±0.70	±4200	±1.0
8	±1.4	±8400	±2.0
Observed gravity accuracy code (fourth digit) (relative to local base station)			
Code	Observed Gravity Accuracy	Suggested types of gravity measurements	
1	±0.01	2 or more closed loops with 2 or more LaCoste & Romberg meters	
2	±0.02	Multiple readings with LaCoste & Romberg meter	
3	±0.05	Average LaCoste and Multiple Worden readings	
4	±0.10	Most USGS Worden data etc.	
5	±0.20	Data from loops with closures this large	
6	±0.50	Data from loops with closures this large	
7	±1.00	Data from loops with closures this large	
8	±2.00	Data from loops with closures this large	
9	±5.00	Data from loops with closures this large	

References

- Barnes, D. F., Oliver, H. W., and Robbins, S. L., 1969, Standardization of gravimeter calibrations in the Geological Survey: EOS, Transactions, American Geophysical Union, v. 50, no. 10, p. 526-527.
- Hayford, J. F., and Bowie, William, 1912, The effect of topography and isostatic compensation upon the intensity of gravity: U.S. Coast and Geodetic Survey Special Publication no. 10, 132 p.
- Heiskanen, W. A., and Vening Meinesz, F. A., 1958, The Earth and its gravity field: New York, McGraw-Hill Book Company, Inc., 470 p.
- International Union of Geodesy and Geophysics, 1971, Geodetic reference System 1967: International Association of Geodesy Special Publication no. 3, 116 p.
- Jachens, R. C., and Roberts, C. W., 1981, Documentation of a FORTRAN program "iso-comp" for computing isostatic residual gravity: U.S. Geological Survey Open-File Report 81-574, 26 p.
- Karki, P., Kivioja, L., and Heiskanen, W. A., 1961, Topographic-isostatic reduction maps for the world for Hayford Zones 18-1, Airy-Heiskanen system, T=30 km: International Association of Geodesy, Isostatic Institute, Helsinki, no. 35, 25 p.
- Morelli, C. (ed.), 1974, The International Gravity Standardization Net 1971 (I.G.S.N.71): International Association of Geodesy Special Publication No. 4, 194 p.
- Plouff, Donald, 1977, Preliminary documentation for a FORTRAN program to compute gravity terrain corrections based on topography digitized on a geographic grid: U.S. Geological Survey Open-File Report 77-535, 45 p.
- Robbins, S.L., Oliver, H.W., Holden, K.D., and Farewell, R.C., 1974, Principal facts, accuracies, and sources for 3046 gravity stations on the San Jose 1°x2° quadrangle, California: U.S. Geological Survey report, 106 p.; available from National Technical Information Service, U.S. Dept. of Commerce, Springfield, Va., NTIS PB-232-728.
- Roberts, C.W., and Jachens, R.C., 1987, High-precision stations for monitoring gravity changes in Long Valley caldera, California: U.S. Geological Survey Open-File Report, in press.

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
1 J D 1 9 5 2	37 37.92	118 48.62	6981.6	979279.87	B221	-23.61	-261.74	0.23 e	3.72	-259.53	-56.36
2 J D 1 9 5 2	37 40.26	118 48.67	6960.3	979277.14	B221	-31.75	-269.15	0.03 e	2.46	-268.21	-64.84
3 J D 1 9 5 2	37 41.31	118 47.26	6915.7	979276.00	B221	-36.62	-274.49	0.01 e	2.25	-273.76	-70.41
4 J D 1 9 5 2	37 41.98	118 45.72	6816.6	979285.69	B221	-39.22	-271.71	0.01 e	2.45	-270.78	-67.57
9 D O R	37 37.44	118 50.27	7102.7	979270.87	B221	-20.54	-262.79	0.00 e	4.46	-259.84	-56.77
1 1 D O R	37 38.29	118 53.56	7183.7	979268.27	B221	-16.76	-261.77	0.53 e	4.95	-258.33	-55.47
1 2 D O R	37 40.82	118 55.97	7580.0	979242.32	B221	-9.16	-267.69	0.04 e	2.94	-266.25	-63.62
1 J C M	37 38.41	118 55.54	7434.4	979255.21	B221	-6.44	-260.01	0.09 e	4.37	-257.14	-54.80
2 J C M	37 38.50	118 56.50	7649.9	979242.02	B221	0.49	-260.42	0.12 e	4.13	-257.79	-55.75
3 J C M	37 38.84	118 57.46	7784.8	979232.66	B221	3.31	-262.21	0.06 e	3.85	-259.84	-58.09
4 J C M	37 38.93	118 58.88	8014.4	979220.49	B221	12.59	-260.76	0.12 e	4.04	-258.19	-57.00
1 6 J C M	37 41.80	118 53.29	7404.5	979253.37	B221	-16.03	-268.58	0.28 D	3.06	-267.02	-63.78
1 7 J C M	37 40.88	118 53.20	7358.3	979257.77	B221	-14.63	-265.60	0.91 e	3.71	-263.40	-60.28
2 2 J C M	37 40.38	118 54.16	7677.5	979236.31	B221	-5.37	-267.22	0.48 e	3.23	-265.49	-62.72
2 3 J C M	37 39.76	118 54.49	7637.8	979237.90	B221	-6.61	-267.11	0.31 D	3.39	-265.22	-62.56
3 0 J C M	37 36.81	118 50.67	7272.0	979271.14	B223	-3.44	-251.47	0.40 e	5.99	-246.98	-44.11
3 1 J C M	37 36.25	118 51.00	7546.2	979260.92	B223	12.93	-244.45	0.19 e	6.85	-239.10	-36.47
D 9 1 6	37 42.19	118 56.99	7585.2	979242.43	B221	-10.57	-269.27	0.04 D	2.72	-268.05	-65.31
W 9 1 1	37 39.60	118 55.50	7355.3	979258.67	B221	-12.14	-263.01	0.70 e	4.42	-260.10	-57.42
CH 2 2 5	37 38.76	118 54.80	7290.3	979263.50	B221	-12.20	-260.85	0.10 e	4.12	-258.24	-55.59
C A S A A Z	37 38.66	118 54.53	7249.7	979264.83	B223	-14.54	-261.81	0.11 e	4.26	-259.06	-56.34
A 1 2 4 R E S T	37 37.76	118 51.84	7114.2	979268.81	B221	-21.98	-264.62	0.01 D	4.65	-261.49	-58.50
7 0 6 6 1 9 0 5	37 37.40	118 49.79	7060.4	979275.87	B321	-19.46	-260.27	0.74 e	5.19	-256.59	-53.51
C O N V I C T	37 36.90	118 48.61	7056.3	979284.16	B221	-10.82	-261.49	0.20 D	5.06	-247.94	-44.89
F L O W Y	37 37.85	118 53.75	7203.7	979264.48	B221	-18.02	-263.72	0.02 e	5.30	-259.93	-57.23
H O T X	37 38.94	118 50.27	7112.8	979272.70	B221	-19.93	-262.53	0.04 e	3.01	-261.04	-57.80
M L E Q B 1	37 33.80	118 41.68	6955.0	979312.16	P221	12.18	-225.04	0.49 D	6.65	-219.90	-17.85
M L E Q 0 3	37 43.73	118 56.79	8344.8	979192.37	V421	8.51	-276.11	1.70 D	7.86	-269.69	-67.23
M L E Q 1 4	37 37.72	118 56.11	7605.0	979244.58	A721	-0.04	-259.42	0.31 e	5.71	-255.21	-53.28
M L E Q 0 1	37 38.92	118 48.57	7005.9	979275.92	P321	-26.73	-265.69	0.05 e	2.85	-264.35	-61.06
M L V 0 1	37 37.39	118 54.79	7354.0	979259.59	A721	-8.12	-258.95	0.16 e	7.14	-253.31	-51.00
M L V 0 2	37 37.54	118 55.47	7456.0	979252.70	A721	-5.65	-259.95	0.16 e	6.35	-255.10	-52.97
M L V 0 3	37 37.76	118 56.59	7690.3	979239.85	A721	3.19	-259.10	0.16 e	5.40	-255.19	-53.46
M L V 0 4	37 37.73	118 57.24	7644.5	979230.36	A721	6.23	-259.32	0.10 e	5.22	-255.55	-54.15
M L V 0 5	37 37.82	118 57.72	7851.0	979232.12	A721	10.46	-257.30	0.05 e	5.07	-253.71	-52.40
M L V 0 6	37 37.79	118 58.84	7942.9	979228.34	A721	15.36	-255.53	0.07 e	5.44	-251.57	-50.72
M L V 0 7	37 38.06	118 56.95	7710.0	979238.26	A721	2.96	-259.98	0.15 e	4.76	-256.71	-54.90
M L V 0 8	37 37.21	118 57.13	7959.3	979231.64	A721	21.06	-250.41	0.90 e	7.72	-244.17	-42.91
P V 0 0 1	37 37.29	118 50.58	7129.9	979270.09	P533	-18.53	-261.71	0.04 e	4.86	-256.37	-55.36
P V 0 0 2	37 37.37	118 50.83	7142.0	979268.07	P533	-19.53	-263.13	0.06 e	4.80	-259.84	-56.83
P V 0 0 3	37 37.37	118 51.11	7152.9	979266.94	P533	-19.65	-263.61	0.10 e	4.96	-260.17	-57.18
P V 0 0 4	37 37.36	118 51.37	7167.0	979266.63	P533	-18.61	-263.06	0.14 e	5.17	-259.40	-56.45
P V 0 0 5	37 37.36	118 51.62	7145.0	979267.69	P533	-19.62	-263.32	0.06 e	5.37	-259.46	-56.51
P V 0 0 6	37 37.36	118 51.90	7135.2	979268.95	P533	-19.28	-262.64	0.02 e	5.57	-258.59	-55.68
P V 0 0 7	37 37.36	118 52.20	7126.0	979270.27	P533	-18.83	-261.87	0.00 e	5.88	-257.51	-54.63
P V 0 0 8	37 37.18	118 52.19	7126.0	979270.98	P533	-17.85	-260.90	0.01 e	6.57	-255.84	-52.97
P V 0 0 9	37 37.02	118 52.05	7141.1	979271.96	P533	-15.22	-258.79	0.11 e	7.14	-253.16	-50.30
P V 0 1 0	37 36.84	118 52.08	7115.1	979273.33	P533	-16.03	-258.71	0.26 e	8.54	-251.68	-48.83
P V 0 1 1	37 37.12	118 51.73	7178.1	979268.79	P533	-15.06	-259.88	0.67 e	6.64	-254.76	-51.89
P V 0 1 2	37 37.54	118 52.16	7125.0	979270.26	P533	-19.20	-262.21	0.00 e	5.31	-255.41	-55.48
P V 0 1 3	37 37.37	118 52.49	7124.0	979271.16	P533	-18.12	-261.10	0.00 e	6.17	-256.44	-53.58
P V 0 1 4	37 37.37	118 52.83	7136.1	979270.97	P423	-17.19	-260.58	0.00 e	6.55	-255.55	-52.75
P V 0 1 5	37 37.59	118 52.83	7147.0	979269.46	P433	-17.98	-261.74	0.00 e	5.63	-257.62	-54.77
P V 0 1 6	37 37.72	118 52.84	7155.8	979269.90	P433	-16.92	-260.99	0.00 e	5.21	-257.29	-54.43
P V 0 1 7	37 37.44	118 53.17	7142.0	979270.07	P433	-17.64	-261.23	0.00 e	6.61	-256.13	-53.36
P V 0 1 8	37 37.27	118 53.10	7128.9	979272.69	P433	-16.00	-259.15	0.03 e	7.55	-253.11	-50.36
P V 0 1 9	37 37.47	118 53.41	7164.0	979268.49	P433	-17.19	-261.54	0.00 e	6.62	-256.43	-53.70
P V 0 2 0	37 37.26	118 53.41	7164.0	979271.60	P433	-13.78	-258.12	0.05 e	7.88	-251.75	-49.06
P V 0 2 1	37 37.07	118 53.63	7189.9	979274.45	P433	-8.21	-253.44	2.07 e	11.60	-243.35	-40.76
P V 0 2 2	37 37.07	118 53.87	7265.1	979270.11	P433	-5.50	-253.29	1.67 e	10.91	-243.89	-41.39
P V 0 2 3	37 37.26	118 53.94	7272.0	979267.31	P433	-7.92	-255.95	0.02 e	7.76	-249.68	-47.15
P V 0 2 4	37 37.54	118 53.62	7190.9	979266.75	P433	-16.51	-261.77	0.00 e	6.34	-256.94	-54.24
P V 0 2 5	37 37.64	118 54.09	7246.0	979262.86	P433	-15.36	-262.51	0.01 e	5.99	-255.03	-55.46
P V 0 2 6	37 37.65	118 54.22	7260.2	979261.81	P433	-15.10	-262.72	0.01 e	5.98	-255.25	-55.72
P V 0 2 7	37 37.86	118 54.33	7264.1	979259.74	P433	-17.11	-264.87	0.01 e	5.35	-261.03	-58.47

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV028	37 38.00	118 54.48	7252.0	979259.95	P 433	-18.24	-265.58	0.05	e 5.15	-261.94	-59.34
PV029	37 38.14	118 54.50	7232.9	979261.80	P 433	-18.39	-265.08	0.06	e 4.95	-261.64	-59.00
PV030	37 38.14	118 54.29	7212.9	979262.99	P 433	-19.07	-265.09	0.02	e 4.89	-261.71	-59.00
PV031	37 38.02	118 53.99	7202.1	979265.13	P 433	-17.78	-263.42	0.00	e 5.03	-259.90	-57.18
PV032	37 38.19	118 55.43	7439.9	979252.91	P 433	-7.89	-261.65	0.22	e 4.76	-258.39	-56.08
PV033	37 37.35	118 55.13	7400.9	979257.71	P 433	-5.54	-257.96	0.19	e 7.30	-252.17	-49.98
PV034	37 38.12	118 56.01	7537.1	979248.89	P 433	-2.69	-259.76	0.00	e 4.63	-256.63	-54.51
PV035	37 38.13	118 56.38	7574.1	979246.19	P 433	-1.92	-260.25	0.03	e 4.68	-257.07	-55.06
PV036	37 37.03	118 54.46	7622.0	979250.00	P 433	7.99	-251.97	0.57	e 8.15	-245.32	-43.16
PV037	37 36.78	118 54.81	8147.0	979220.58	P 433	28.26	-249.61	1.61	e 8.75	-242.32	-40.46
PV038	37 38.44	118 54.05	7192.6	979266.40	N 223	-16.02	-263.34	0.47	e 4.87	-259.98	-57.15
PV039	37 38.58	118 50.47	7073.5	979273.82	F 523	-21.99	-263.25	0.05	e 3.36	-261.40	-58.15
PV041	37 35.69	118 51.04	7588.2	979260.28	N 323	17.05	-241.76	0.41	e 9.63	-233.63	-31.12
PV042	37 38.79	118 55.91	7568.9	979247.00	P 323	-2.57	-260.72	0.07	e 3.79	-258.43	-56.17
PV043	37 39.04	118 56.24	7641.1	979242.95	P 323	-0.19	-260.81	0.04	e 3.56	-258.74	-56.53
PV044	37 39.26	118 56.89	7726.4	979238.65	A 723	3.19	-260.33	0.00	e 3.48	-258.34	-56.29
PV045	37 39.59	118 56.16	8224.1	979200.49	A 723	11.32	-269.18	2.69	e 7.15	-263.48	-61.52
PV046	37 38.74	118 57.03	7719.8	979236.37	M 223	1.05	-262.25	0.02	e 3.86	-259.88	-57.98
PV047	37 38.39	118 56.26	7583.0	979247.05	M 223	-0.61	-259.24	0.02	e 4.21	-256.53	-54.44
PV048	37 37.56	118 51.14	7133.5	979266.32	M 223	-22.36	-265.67	0.01	e 4.58	-262.60	-59.59
PV049	37 37.74	118 51.62	7118.1	979267.50	M 223	-22.89	-265.67	0.01	e 4.56	-262.62	-59.61
PV050	37 37.84	118 52.03	7108.9	979270.21	M 223	-21.19	-263.66	0.02	e 4.64	-260.53	-57.53
PV051	37 37.93	118 52.39	7127.0	979270.75	M 223	-19.09	-262.17	0.01	e 4.61	-259.07	-56.13
PV052	37 37.99	118 52.58	7133.8	979270.90	M 223	-18.38	-261.70	0.01	e 4.58	-258.63	-55.66
PV053	37 38.05	118 52.79	7134.5	979271.55	M 223	-17.76	-261.09	0.00	e 4.58	-258.03	-55.08
PV054	37 38.10	118 53.00	7146.3	979270.87	M 223	-17.40	-261.14	0.01	e 4.57	-258.08	-55.15
PV055	37 38.17	118 53.35	7163.7	979269.55	M 223	-17.19	-261.52	0.11	e 4.68	-258.35	-55.47
PV056	37 38.22	118 53.70	7197.5	979267.80	M 223	-16.03	-261.52	0.20	e 4.73	-258.30	-55.49
PV057	37 38.25	118 53.97	7206.0	979265.79	M 223	-17.09	-262.56	0.13	e 4.70	-259.67	-56.87
PV058	37 38.32	118 54.57	7240.1	979263.15	M 223	-16.62	-263.56	0.00	e 4.60	-260.47	-57.81
PV059	37 38.84	118 58.07	7832.7	979231.03	M 223	6.18	-260.97	0.06	e 4.01	-258.44	-56.93
PV060	37 38.79	118 57.69	7794.3	979232.74	M 223	4.36	-261.49	0.02	e 3.91	-259.06	-57.41
PV061	37 38.76	118 57.23	7733.6	979234.92	M 223	0.87	-262.90	0.06	e 3.93	-260.45	-58.60
PV062	37 38.35	118 56.06	7551.5	979249.15	M 223	-1.41	-258.97	0.10	e 4.36	-256.11	-53.97
PV063	37 38.38	118 55.79	7474.7	979253.81	M 223	-4.00	-258.95	0.09	e 4.40	-256.05	-53.78
PV064	37 38.36	118 55.49	7432.4	979254.85	M 223	-6.91	-260.41	0.11	e 4.44	-257.47	-55.13
PV065	37 38.40	118 55.31	7357.3	979258.79	M 223	-10.09	-261.03	0.18	e 4.60	-257.93	-55.51
PV066	37 38.44	118 55.06	7322.2	979260.74	M 223	-11.50	-261.23	0.00	e 4.37	-258.37	-55.86
PV067	37 38.00	118 53.57	7189.9	979267.12	B 223	-16.90	-262.13	0.03	e 4.90	-258.74	-55.94
PV068	37 37.55	118 53.91	7230.0	979264.76	B 223	-14.85	-261.44	0.01	e 6.34	-256.61	-53.99
PV069	37 37.41	118 54.35	7294.9	979262.43	B 223	-10.87	-259.68	0.20	e 7.18	-254.00	-51.54
PV070	37 38.07	118 53.57	7183.4	979268.11	P 223	-16.63	-261.64	0.03	e 4.80	-258.35	-55.55
PV071	37 38.16	118 53.54	7184.7	979268.31	P 223	-16.43	-261.48	0.09	e 4.69	-258.31	-55.47
PV072	37 37.95	118 53.64	7187.0	979266.79	P 223	-17.44	-262.56	0.00	e 5.05	-259.03	-56.28
PV073	37 37.90	118 53.71	7188.0	979265.68	P 223	-18.38	-263.54	0.00	e 5.20	-259.85	-57.14
PV074	37 37.78	118 53.81	7204.7	979264.29	P 223	-18.02	-263.76	0.01	e 5.52	-259.75	-57.08
PV075	37 37.70	118 53.84	7211.9	979264.15	P 223	-17.37	-263.35	0.00	e 5.76	-259.10	-56.45
PV076	37 37.62	118 53.88	7221.8	979264.47	P 223	-16.01	-262.32	0.00	e 6.04	-257.79	-55.15
PV077	37 37.52	118 54.00	7245.7	979264.35	P 223	-13.73	-260.86	0.03	e 6.49	-255.86	-53.31
PV078	37 37.49	118 54.08	7259.2	979264.02	P 223	-12.75	-260.34	0.06	e 6.65	-255.20	-52.65
PV079	37 37.46	118 54.17	7270.7	979263.66	P 223	-11.99	-259.97	0.10	e 6.84	-254.64	-52.12
PV080	37 37.43	118 54.27	7282.5	979263.16	P 223	-11.33	-259.72	0.14	e 7.04	-254.19	-51.70
PV100	37 41.88	118 56.18	7654.0	979234.87	G 623	-11.19	-272.25	0.05	D 2.66	-271.08	-68.31
PV101	37 42.27	118 55.63	7650.9	979236.65	G 623	-10.28	-271.24	0.44	D 3.15	-269.58	-66.69
PV102	37 43.46	118 55.48	7454.0	979250.82	G 623	-16.35	-270.58	0.27	D 2.88	-269.21	-66.07
PV103	37 44.36	118 55.61	7411.0	979265.97	G 623	-6.52	-269.30	1.16	D 3.89	-256.91	-63.65
PV104	37 44.97	118 57.66	7441.0	979282.04	G 623	11.44	-242.35	0.02	D 2.82	-241.04	-37.92
PV105	37 44.54	118 57.44	7503.0	979269.92	G 623	5.80	-250.12	0.03	D 2.59	-249.03	-45.96
PV106	37 44.86	118 56.77	7444.0	979278.25	G 633	8.12	-245.78	0.05	D 2.61	-244.67	-41.45
PV107	37 44.57	118 56.60	7309.4	979278.07	B 223	-4.31	-253.61	0.37	D 3.52	-251.60	-48.30
PV108	37 43.95	118 57.41	7470.1	979254.59	B 223	-11.79	-266.57	0.45	D 3.38	-264.69	-61.74
PV109	37 44.08	118 59.76	7562.0	979272.36	G 623	14.46	-243.47	0.01	D 3.53	-241.44	-38.90
PV110	37 43.34	119 0.19	7782.0	979249.40	G 623	13.23	-252.19	0.01	D 3.40	-250.28	-48.17
PV111	37 43.17	119 1.72	8022.0	979243.15	G 623	29.74	-243.66	0.79	D 6.90	-238.43	-36.95
PV112	37 42.51	119 0.26	7904.0	979235.07	G 723	11.52	-258.05	0.08	D 3.48	-256.04	-54.21

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV113	37 42.91	118 59.08	7707.0	979240.49	G623	-2.13	-264.99	0.01 D	2.86	-263.62	-61.29
PV114	37 43.39	118 58.91	7651.0	979248.61	G623	0.04	-260.91	0.01 D	2.78	-259.62	-57.13
PV115	37 44.12	118 58.18	7509.5	979266.42	N223	3.50	-252.63	0.01 D	2.68	-251.45	-48.59
PV116	37 43.43	118 57.65	7687.3	979241.31	B223	-3.89	-266.08	0.05 D	2.61	-264.96	-62.24
PV117	37 43.09	118 56.74	7556.0	979242.27	G623	-14.80	-272.51	0.17 D	2.87	-271.13	-68.26
PV118	37 39.07	118 59.52	8209.0	979207.59	G623	17.72	-262.25	0.20 D	4.43	-259.27	-58.39
PV119	37 38.66	118 59.69	8284.0	979203.16	G623	20.99	-261.56	0.23 D	4.81	-258.20	-57.56
PV120	37 38.52	118 59.17	8084.0	979217.74	G623	16.97	-258.76	0.21 D	4.60	-255.62	-54.72
PV121	37 38.16	118 59.29	8087.0	979219.04	G623	19.10	-256.74	0.06 D	4.92	-253.28	-52.55
PV122	37 38.35	118 58.79	7976.0	979224.50	G623	13.80	-258.23	0.05 D	4.42	-255.26	-54.23
PV123	37 38.66	118 58.55	7910.0	979227.42	G623	10.10	-259.69	0.02 D	4.19	-256.97	-55.73
PV124	37 37.64	119 0.26	8540.0	979193.60	G723	36.95	-254.32	1.59 D	7.98	-247.76	-47.95
PV125	37 36.91	119 0.11	8740.0	979190.49	G723	53.71	-244.39	0.97 D	6.86	-238.93	-39.43
PV126	37 36.00	118 59.70	8973.0	979180.53	G723	66.96	-239.09	0.49 D	7.80	-232.65	-33.48
PV127	37 36.31	119 0.48	8927.0	979179.71	G623	61.37	-243.11	0.15 D	6.19	-238.29	-39.35
PV128	37 37.12	118 59.67	8579.0	979200.52	G623	48.33	-244.29	1.35 D	7.60	-238.10	-38.25
PV129	37 37.95	118 58.35	7894.0	979230.99	F 433	13.20	-256.05	0.01 D	4.84	-252.68	-51.56
PV130	37 38.41	118 57.93	7861.0	979229.99	G623	8.41	-259.70	0.01 D	4.11	-257.07	-55.67
PV131	37 40.32	118 59.02	8455.0	979193.08	G623	24.51	-263.85	0.10 D	3.75	-261.53	-60.30
PV132	37 40.18	118 58.54	8501.0	979189.71	G623	25.66	-264.27	0.07 D	3.85	-261.85	-60.53
PV133	37 40.02	118 58.44	8599.0	979182.57	G523	28.00	-265.29	0.36 D	4.66	-262.04	-60.78
PV134	37 41.36	118 58.31	8163.0	979208.70	G523	11.15	-267.26	0.11 D	3.40	-265.31	-63.42
PV135	37 41.41	118 58.75	8133.0	979208.97	G623	8.61	-268.79	1.00 D	4.27	-265.98	-64.15
PV136	37 41.43	118 57.46	7684.0	979238.35	G623	-4.28	-266.34	0.62 D	3.93	-263.91	-61.46
PV137	37 40.73	118 57.81	8255.0	979201.80	G623	13.83	-267.71	1.05 D	4.53	-264.63	-62.82
PV138	37 38.94	118 54.05	7618.0	979240.47	G623	-4.69	-264.53	0.35 D	4.04	-261.98	-59.35
PV139	37 38.66	118 53.74	7918.5	979215.87	P 523	-0.66	-270.74	2.63 D	8.44	-263.77	-61.31
PV140	37 38.99	118 53.75	7680.0	979235.96	D533	-3.42	-265.38	0.23 D	4.06	-262.81	-60.16
PV141	37 39.18	118 53.65	7595.1	979242.37	P 433	-5.30	-264.35	0.35 D	3.86	-261.98	-59.25
PV142	37 39.03	118 53.00	7179.0	979268.42	G623	-18.18	-263.02	0.23 D	4.14	-260.39	-57.34
PV143	37 39.65	118 53.27	7142.0	979271.24	G623	-19.66	-263.26	1.01 D	5.50	-259.28	-56.15
PV144	37 40.44	118 53.67	7631.0	979238.72	B223	-7.38	-267.66	0.99 D	3.89	-265.27	-62.40
PV145	37 40.68	118 52.91	7238.0	979267.10	G623	-16.36	-263.21	0.15 D	3.51	-261.21	-57.99
PV146	37 40.16	118 52.13	7533.0	979251.01	G623	-3.94	-260.87	0.27 D	3.28	-259.09	-56.08
PV147	37 39.52	118 52.19	7825.0	979228.23	G623	1.64	-265.24	0.52 D	5.03	-261.69	-58.92
PV148	37 39.06	118 51.64	7385.0	979256.68	G623	-10.54	-262.43	0.39 D	3.77	-260.17	-57.13
PV149	37 39.05	118 51.17	7179.0	979271.67	G623	-14.96	-259.80	0.13 D	3.28	-258.03	-54.83
PV150	37 39.69	118 51.27	7215.0	979271.17	G623	-13.00	-259.07	0.08 D	3.07	-257.51	-54.28
PV151	37 39.75	118 50.47	7179.0	979271.41	C723	-16.24	-261.08	0.02 D	2.70	-259.89	-56.64
PV152	37 40.12	118 49.74	7057.0	979274.22	G623	-25.38	-266.08	0.01 D	2.53	-265.06	-61.73
PV153	37 40.53	118 50.94	7169.0	979270.82	G623	-18.89	-263.39	0.20 D	2.79	-262.12	-58.51
PV154	37 40.62	118 49.04	6962.0	979277.05	G623	-32.22	-269.67	0.02 D	2.42	-268.77	-65.38
PV155	37 38.21	118 51.78	7097.3	979269.02	P 323	-24.01	-266.08	0.01 D	4.00	-263.60	-60.51
PV156	37 37.76	118 50.28	7093.0	979272.38	G523	-20.38	-262.31	0.01 D	4.04	-259.79	-56.67
PV157	37 38.26	118 49.73	7336.0	979257.47	G623	-13.21	-263.42	0.43 D	3.78	-261.15	-58.11
PV158	37 38.10	118 49.66	7309.0	979261.83	G623	-11.09	-260.40	0.10 D	3.51	-258.40	-55.36
PV159	37 37.88	118 49.84	7372.0	979254.61	G623	-12.13	-263.57	0.77 D	4.54	-260.53	-57.57
PV160	37 37.88	118 49.08	7366.0	979253.53	G623	-13.82	-265.04	1.14 D	4.97	-261.58	-58.63
PV161	37 38.22	118 48.65	6974.7	979278.84	N123	-25.73	-263.61	0.16 D	3.53	-261.60	-58.34
PV162	37 37.39	118 48.30	6943.0	979283.89	P 323	-22.47	-259.26	0.02 D	4.03	-256.75	-53.59
PV163	37 37.27	118 47.95	6907.4	979287.13	P 323	-22.38	-257.97	0.02 D	4.07	-255.42	-52.26
PV164	37 38.00	118 48.13	6957.9	979279.44	P 323	-26.39	-263.70	0.01 D	3.33	-261.89	-58.69
PV165	37 38.33	118 46.96	6880.0	979286.88	G523	-26.76	-261.41	0.02 D	2.92	-260.01	-56.82
PV166	37 38.28	118 45.18	6798.0	979295.04	F 423	-26.23	-258.09	0.01 D	2.74	-256.86	-53.51
PV167	37 38.20	118 44.86	6817.0	979297.27	G523	-22.03	-254.56	0.04 D	2.74	-253.34	-50.35
PV168	37 37.13	118 45.36	6788.0	979307.25	F 323	-13.28	-244.80	0.01 D	3.33	-242.98	-40.01
PV169	37 37.57	118 45.68	6814.0	979300.68	G523	-18.02	-250.43	0.01 D	3.12	-248.83	-45.81
PV170	37 37.74	118 46.36	6834.0	979294.09	P 323	-23.04	-256.12	0.01 D	3.16	-254.47	-51.37
PV171	37 39.95	118 46.82	6860.0	979281.14	G523	-36.71	-270.69	0.03 D	2.43	-269.78	-66.50
PV172	37 40.50	118 46.65	6890.0	979278.08	F 423	-37.80	-272.79	0.01 D	2.31	-272.00	-68.79
PV173	37 41.27	118 46.37	6825.1	979283.63	N223	-39.44	-272.23	0.06 D	2.38	-271.36	-68.09
PV174	37 40.50	118 46.35	6956.7	979276.76	N223	-32.83	-270.10	0.05 D	2.37	-269.25	-66.12
PV175	37 40.07	118 46.68	6973.1	979276.86	N223	-30.56	-268.39	0.01 D	2.48	-267.42	-64.08
PV176	37 39.80	118 49.35	7077.0	979273.89	G623	-23.39	-264.76	0.06 D	2.60	-263.67	-60.34
PV177	37 39.31	118 49.97	7113.0	979275.87	G623	-17.31	-259.91	0.10 D	2.86	-258.56	-55.28

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV178	37 39.45	118 48.29	6964.9	979278.78	N223	-28.51	-266.06	0.01 D	2.61	-264.97	-61.64
PV179	37 38.91	118 48.53	7006.3	979276.54	B223	-26.07	-265.03	0.04 D	2.87	-263.68	-60.40
PV180	37 39.38	118 55.51	7342.2	979259.23	P323	-12.50	-262.92	0.86 D	4.93	-259.50	-56.69
PV181	37 39.29	118 55.52	7337.8	979259.17	P323	-12.84	-263.11	0.72 D	4.82	-259.80	-57.20
PV182	37 39.20	118 55.52	7329.2	979259.62	P323	-13.07	-263.04	0.96 D	5.11	-259.44	-56.86
PV183	37 39.09	118 55.52	7331.0	979259.68	P323	-12.68	-262.72	1.02 D	5.19	-259.04	-56.49
PV184	37 39.00	118 55.48	7338.3	979259.73	P323	-11.81	-262.10	0.75 D	4.88	-258.73	-56.18
PV185	37 38.88	118 55.42	7379.3	979257.75	P323	-9.76	-261.45	0.18 D	4.17	-258.78	-56.30
PV186	37 39.06	118 55.37	7328.8	979260.30	P323	-12.22	-262.19	0.13 D	4.20	-259.49	-56.90
PV187	37 39.19	118 55.37	7317.8	979259.58	P323	-14.16	-263.75	0.14 D	4.22	-261.04	-58.43
PV188	37 39.56	118 55.41	7333.3	979260.00	P323	-12.83	-262.94	0.14 D	4.15	-260.30	-57.62
PV189	37 39.45	118 55.27	7321.6	979260.12	P323	-13.65	-263.37	0.03 D	3.97	-260.91	-58.22
PV190	37 39.38	118 55.13	7321.0	979259.89	P323	-13.83	-263.53	0.11 D	3.98	-261.06	-58.37
PV191	37 39.51	118 55.04	7356.7	979257.25	P323	-13.31	-264.22	0.12 D	3.82	-261.91	-59.21
PV192	37 39.24	118 55.09	7334.9	979259.53	P323	-12.68	-262.85	0.13 D	3.95	-260.41	-57.75
PV193	37 39.22	118 55.17	7318.9	979260.42	P323	-13.27	-262.89	0.06 D	3.98	-260.42	-57.76
PV194	37 39.13	118 55.31	7317.6	979260.70	P323	-12.98	-262.56	0.06 D	4.10	-259.97	-57.36
PV195	37 39.05	118 55.18	7323.1	979260.51	B223	-12.53	-262.30	0.24 D	4.22	-259.59	-56.96
PV196	37 38.93	118 55.09	7332.5	979259.93	P323	-12.06	-262.15	0.16 D	4.12	-259.54	-56.92
PV197	37 38.84	118 55.14	7346.4	979259.58	P323	-10.97	-261.53	0.13 D	4.11	-258.93	-56.37
PV198	37 39.17	118 55.26	7315.8	979260.83	N223	-13.07	-262.59	0.05 D	4.05	-260.65	-57.42
PV199	37 39.31	118 55.36	7315.9	979260.70	N223	-13.40	-262.93	0.11 D	4.17	-260.26	-57.61
PV200	37 39.46	118 55.44	7327.6	979260.38	N223	-12.84	-262.76	0.26 D	4.33	-259.94	-57.27
PV201	37 39.21	118 54.65	7477.0	979250.47	G623	-8.34	-263.36	0.36 D	3.81	-261.05	-58.41
PV202	37 39.93	118 54.31	7618.0	979235.95	G623	-7.65	-267.46	0.17 D	3.19	-265.79	-63.05
PV203	37 40.60	118 54.99	7805.0	979224.14	G623	-5.87	-272.08	0.09 D	2.94	-270.62	-68.01
PV204	37 40.81	118 54.36	7739.0	979228.77	G623	-7.71	-271.68	0.33 D	3.18	-269.99	-67.24
PV205	37 41.23	118 53.33	7339.0	979258.73	G623	-15.97	-266.30	0.37 D	3.42	-264.38	-61.18
PV206	37 41.37	118 52.79	7375.0	979255.86	G623	-15.66	-267.21	0.17 D	2.75	-265.93	-62.71
PV207	37 42.77	118 53.62	7520.0	979240.02	G623	-19.97	-276.45	0.04 D	2.47	-275.46	-72.28
PV208	37 43.18	118 53.63	7523.0	979240.42	G623	-19.87	-276.45	0.09 D	2.54	-275.41	-72.21
PV209	37 42.84	118 55.18	7526.0	979244.99	G623	-14.49	-271.19	0.21 D	2.78	-269.91	-66.82
PV210	37 41.97	118 55.49	7927.0	979217.52	G623	-3.08	-273.43	0.51 D	3.56	-271.35	-68.66
PV211	37 41.86	118 54.90	8120.0	979206.76	G623	4.51	-272.44	0.16 D	3.75	-270.15	-67.51
PV212	37 41.28	118 56.30	7581.1	979241.04	N223	-11.01	-269.58	0.02 D	2.94	-268.14	-65.44
PV213	37 39.16	118 48.36	6993.2	979276.55	P323	-27.36	-265.87	0.03 D	2.72	-264.67	-61.36
PV214	37 39.39	118 48.05	6975.1	979277.05	P323	-29.19	-267.09	0.01 D	2.58	-266.03	-62.73
PV215	37 39.37	118 47.74	6965.4	979276.12	P323	-31.00	-268.57	0.01 D	2.56	-267.53	-64.25
PV216	37 39.25	118 47.36	6987.7	979273.82	P323	-31.03	-269.36	0.01 D	2.55	-268.32	-65.08
PV217	37 39.09	118 47.50	6986.8	979274.39	P323	-30.32	-268.62	0.01 D	2.60	-267.53	-64.29
PV218	37 38.90	118 47.66	6986.7	979275.11	P323	-29.32	-267.62	0.01 D	2.68	-266.46	-63.21
PV219	37 38.72	118 47.81	6989.9	979275.54	P323	-28.33	-266.73	0.01 D	2.78	-265.47	-62.20
PV220	37 38.54	118 47.95	6993.9	979276.82	P323	-26.41	-264.95	0.01 D	2.89	-263.58	-60.35
PV221	37 38.36	118 48.10	6999.9	979277.61	P323	-24.80	-263.54	0.01 D	3.02	-262.04	-58.80
PV222	37 38.22	118 48.28	6980.6	979278.98	P323	-25.04	-263.12	0.01 D	3.19	-261.45	-58.22
PV223	37 38.07	118 48.49	6974.3	979279.23	P323	-25.16	-263.03	0.04 D	3.43	-261.12	-57.89
PV224	37 37.96	118 48.41	6971.6	979279.37	P323	-25.12	-262.90	0.04 D	3.48	-260.93	-57.73
PV225	37 38.05	118 47.88	6945.2	979279.65	P323	-27.23	-264.11	0.01 D	3.33	-262.30	-59.09
PV226	37 38.13	118 47.58	6922.2	979280.44	P323	-28.93	-265.03	0.01 D	3.11	-263.43	-60.22
PV227	37 38.21	118 47.29	6902.4	979282.08	P323	-29.27	-264.69	0.01 D	3.02	-263.16	-59.96
PV228	37 38.21	118 47.01	6884.7	979286.37	P323	-26.64	-261.46	0.01 D	2.98	-260.00	-56.80
PV229	37 38.21	118 46.80	6906.1	979286.65	P323	-24.35	-259.90	0.01 D	2.91	-258.50	-55.33
PV230	37 38.20	118 46.41	6885.6	979289.04	P323	-23.87	-258.72	0.03 D	2.89	-257.34	-54.22
PV231	37 38.21	118 46.02	6842.6	979289.72	P323	-27.25	-260.63	0.01 D	2.84	-259.31	-56.21
PV232	37 38.20	118 45.77	6841.1	979290.37	P323	-26.72	-260.05	0.01 D	2.80	-258.77	-55.69
PV233	37 37.66	118 45.94	6819.5	979297.38	P323	-20.96	-253.55	0.01 D	3.12	-251.95	-46.90
PV234	37 37.80	118 46.70	6858.9	979290.64	P323	-24.20	-258.14	0.01 D	3.17	-256.49	-53.36
PV235	37 37.85	118 47.02	6882.3	979286.77	P323	-25.94	-260.68	0.01 D	3.19	-259.01	-55.65
PV236	37 37.88	118 47.31	6908.6	979282.84	P323	-27.45	-263.08	0.01 D	3.22	-261.38	-56.24
PV237	37 37.99	118 47.65	6927.4	979280.44	P323	-28.24	-264.51	0.01 D	3.22	-262.81	-59.60
PV238	37 37.85	118 48.04	6947.4	979280.15	P323	-26.45	-263.40	0.01 D	3.42	-261.50	-58.34
PV239	37 37.75	118 48.78	6996.7	979280.55	P323	-21.27	-259.91	0.18 D	3.96	-257.46	-54.30
PV240	37 37.68	118 48.64	6984.9	979281.09	P323	-21.73	-259.97	0.02 D	3.79	-257.69	-54.54
PV241	37 37.50	118 48.61	6976.2	979281.60	P323	-21.78	-259.72	0.01 D	3.96	-257.26	-54.10
PV242	37 37.43	118 48.69	6986.0	979281.65	P323	-20.71	-258.98	0.03 D	4.11	-256.39	-53.25

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV243	37 37.38	118 48.52	6961.3	979283.45	P 323	-21.16	-258.59	0.06 D	4.17	-255.94	-52.79
PV244	37 37.37	118 48.08	6924.1	979284.87	P 323	-23.22	-259.38	0.01 D	3.96	-256.94	-53.79
PV246	37 37.36	118 47.75	6901.0	979286.71	P 323	-23.54	-258.91	0.01 D	3.86	-256.56	-53.42
PV247	37 37.52	118 47.83	6938.1	979282.38	P 323	-24.61	-261.25	0.01 D	3.66	-259.11	-55.96
PV248	37 37.66	118 47.92	6955.0	979280.15	P 323	-25.46	-262.67	0.01 D	3.53	-260.66	-57.52
PV249	37 37.67	118 49.05	7006.3	979278.96	P 323	-21.84	-260.81	0.57 D	4.54	-257.78	-54.62
PV250	37 37.58	118 48.91	7008.6	979279.54	P 323	-20.91	-259.96	0.06 D	4.06	-257.41	-54.29
PV251	37 37.34	118 49.13	7013.7	979280.35	P 323	-19.27	-258.49	0.03 D	4.45	-255.56	-52.45
PV252	37 37.13	118 49.34	7036.1	979280.52	B 223	-16.51	-256.55	0.02 D	4.88	-253.19	-50.09
PV253	37 36.93	118 48.89	7067.3	979282.12	P 323	-11.87	-252.92	0.04 D	5.03	-249.40	-46.36
PV254	37 36.87	118 49.27	7047.6	979283.80	P 323	-11.95	-252.32	0.17 D	5.70	-248.14	-45.05
PV255	37 36.76	118 49.92	7091.1	979282.56	P 323	-8.94	-250.80	0.07 D	6.31	-246.00	-42.97
PV256	37 38.47	118 48.66	6981.1	979278.75	N 223	-25.59	-263.69	0.10 D	3.29	-261.92	-58.64
PV257	37 38.68	118 48.67	6972.8	979276.33	P 323	-27.09	-264.91	0.11 D	3.19	-263.24	-59.95
PV258	37 38.92	118 48.23	6971.5	979277.58	P 323	-26.31	-266.09	0.02 D	2.81	-264.80	-61.51
PV259	37 38.54	118 48.22	7042.0	979274.71	P 323	-24.00	-264.19	0.10 D	3.01	-262.69	-59.46
PV260	37 38.68	118 48.37	6979.4	979275.54	P 323	-26.26	-264.31	0.24 D	3.17	-262.65	-59.35
PV261	37 38.14	118 49.19	7307.2	979259.83	P 323	-13.38	-262.61	0.07 D	3.48	-260.63	-57.61
PV262	37 37.92	118 48.96	7328.0	979256.32	P 323	-14.61	-264.55	1.04 D	4.77	-261.29	-58.31
PV263	37 38.82	118 55.74	7624.1	979241.79	P 323	-2.63	-262.67	0.42 D	4.18	-259.98	-57.71
PV264	37 38.67	118 55.78	7523.1	979249.27	P 323	-4.42	-261.02	0.10 D	4.04	-255.47	-56.18
PV265	37 38.92	118 56.07	7597.4	979244.85	P 323	-2.23	-261.36	0.04 D	3.73	-259.12	-56.87
PV266	37 38.82	118 55.86	7547.8	979247.62	P 323	-3.97	-261.41	0.14 D	3.94	-255.97	-56.66
PV267	37 36.92	118 55.75	7603.1	979243.52	P 323	-3.03	-262.34	0.21 D	3.90	-259.94	-57.64
PV268	37 39.02	118 55.82	7630.5	979241.13	P 323	-2.98	-263.24	0.16 D	3.79	-260.94	-58.65
PV269	37 39.33	118 55.88	7806.5	979229.24	P 323	1.21	-265.04	0.80 D	4.47	-262.06	-59.81
PV270	37 39.48	118 55.95	7940.2	979219.88	P 323	4.20	-266.62	1.91 D	5.87	-262.23	-60.06
PV271	37 38.99	118 55.95	7582.3	979245.58	P 323	-3.02	-261.63	0.11 D	3.79	-259.34	-57.05
PV272	37 39.09	118 56.11	7608.0	979244.14	G 223	-2.17	-261.66	0.11 D	3.73	-259.43	-57.16
PV273	37 38.75	118 55.70	7608.7	979243.03	P 323	-2.74	-262.25	0.55 D	4.35	-259.39	-57.12
PV274	37 38.01	118 49.79	7327.3	979257.59	P 323	-13.54	-263.45	0.37 D	3.92	-261.04	-58.01
PV275	37 38.05	118 51.79	7105.0	979268.36	P 323	-23.72	-266.05	0.01 D	4.20	-263.37	-60.30
PV276	37 37.99	118 51.48	7099.6	979267.99	P 323	-24.51	-266.65	0.01 D	4.14	-264.03	-60.94
PV277	37 37.89	118 51.14	7110.5	979267.51	P 323	-23.52	-266.04	0.01 D	4.13	-263.42	-60.37
PV278	37 37.80	118 50.81	7112.0	979269.25	P 323	-21.81	-264.38	0.01 D	4.12	-261.77	-58.72
PV279	37 37.73	118 50.51	7103.5	979270.80	P 323	-20.96	-263.24	0.01 D	4.13	-260.62	-57.55
PV280	37 37.95	118 50.87	7103.8	979269.98	P 323	-22.07	-264.36	0.01 D	3.96	-261.91	-58.84
PV281	37 38.07	118 51.18	7097.0	979268.71	P 323	-24.15	-266.21	0.01 D	3.94	-263.76	-60.64
PV282	37 37.87	118 50.58	7098.8	979271.75	P 323	-20.65	-262.77	0.03 D	4.00	-260.26	-57.20
PV283	37 38.05	118 50.53	7094.5	979271.67	P 323	-21.40	-263.37	0.03 D	3.79	-261.10	-57.95
PV284	37 37.98	118 50.32	7090.8	979271.82	P 323	-21.49	-263.33	0.01 D	3.81	-261.04	-57.90
PV285	37 38.28	118 50.40	7106.0	979271.95	P 323	-20.37	-262.73	0.12 D	3.61	-260.64	-57.45
PV286	37 38.52	118 50.77	7093.6	979272.41	P 323	-21.43	-263.37	0.02 D	3.41	-261.47	-58.26
PV287	37 38.35	118 51.12	7075.7	979271.89	P 323	-23.38	-264.71	0.02 D	3.68	-262.54	-59.34
PV288	37 38.25	118 51.45	7076.5	979270.52	P 323	-24.53	-265.89	0.01 D	3.88	-263.52	-60.36
PV289	37 38.07	118 50.06	7086.9	979271.40	P 323	-22.41	-264.12	0.24 D	3.90	-261.74	-58.57
PV290	37 38.17	118 49.91	7227.3	979263.93	P 323	-16.83	-263.33	0.22 D	3.57	-261.28	-58.16
PV291	37 42.97	118 54.27	7661.2	979232.81	N 223	-14.18	-275.46	0.07 D	2.63	-274.35	-71.26
PV292	37 38.60	118 54.92	7349.6	979259.73	P 323	-10.17	-260.84	0.07 D	4.16	-258.19	-55.63
PV293	37 38.68	118 55.08	7376.7	979255.10	P 323	-9.37	-260.97	0.05 D	4.05	-258.42	-55.91
PV294	37 38.47	118 55.32	7377.9	979257.90	P 323	-9.15	-260.79	0.07 D	4.37	-257.92	-55.49
PV295	37 38.51	118 55.46	7409.4	979256.63	P 323	-7.51	-260.23	0.09 D	4.33	-257.40	-55.02
PV296	37 38.56	118 55.62	7465.6	979253.74	P 323	-5.20	-259.83	0.12 D	4.23	-257.10	-54.78
PV297	37 38.56	118 55.31	7365.9	979258.77	P 323	-9.54	-260.77	0.03 D	4.27	-258.01	-55.56
PV298	37 38.67	118 55.28	7367.8	979258.62	P 323	-9.67	-260.96	0.03 D	4.15	-258.32	-55.85
PV299	37 38.77	118 55.36	7374.4	979258.08	P 323	-9.74	-261.26	0.08 D	4.13	-258.63	-56.15
PV300	37 38.53	118 55.18	7357.4	979259.04	P 323	-10.02	-260.96	0.03 D	4.27	-258.20	-55.73
PV301	37 38.40	118 54.88	7318.8	979260.14	P 323	-12.36	-261.98	0.06 D	4.45	-259.04	-56.50
PV302	37 38.24	118 54.49	7224.2	979263.05	P 323	-16.11	-264.50	0.02 D	4.82	-261.19	-58.53
PV303	37 38.31	118 54.67	7265.2	979262.20	P 323	-15.20	-263.00	0.04 D	4.65	-259.86	-57.25
PV304	37 38.24	118 54.80	7252.1	979263.02	P 323	-15.51	-262.86	0.05 D	4.66	-259.51	-56.93
PV305	37 38.26	118 55.02	7293.9	979261.50	P 323	-13.14	-261.91	0.04 D	4.76	-258.66	-56.16
PV306	37 38.25	118 55.21	7312.7	979260.40	P 323	-12.45	-261.87	0.14 D	4.91	-258.47	-56.05
PV307	37 38.38	118 55.17	7356.7	979258.38	P 323	-10.53	-261.44	0.14 D	4.55	-258.40	-55.95
PV308	37 38.31	118 55.26	7389.9	979256.51	P 323	-9.18	-261.22	0.16 D	4.61	-258.12	-55.73

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV309	37 38.25	118 55.54	7468.4	979252.28	P 323	-5.95	-260.67	0.09	D 4.53	-257.64	-55.35
PV310	37 38.20	118 56.55	7644.4	979241.91	P 323	0.30	-260.43	0.07	D 4.48	-257.44	-55.52
PV311	37 38.08	118 56.68	7628.5	979242.23	P 323	-0.70	-260.89	0.17	D 4.89	-257.49	-55.62
PV312	37 37.49	118 56.70	7791.1	979236.30	P 323	9.50	-256.23	0.18	D 6.10	-251.61	-50.02
PV313	37 37.64	118 55.25	7427.5	979253.24	P 323	-7.94	-261.27	0.04	D 5.86	-256.91	-54.67
PV314	37 37.88	118 55.20	7403.9	979253.54	P 323	-10.21	-262.73	0.03	D 5.21	-259.03	-56.72
PV315	37 38.05	118 55.22	7345.8	979257.20	P 323	-12.26	-262.80	0.07	D 5.08	-259.23	-56.85
PV316	37 38.14	118 55.16	7313.7	979259.53	P 323	-13.07	-262.52	0.07	D 5.01	-259.01	-56.60
PV317	37 38.19	118 54.92	7281.6	979261.34	P 323	-14.35	-262.71	0.09	D 4.92	-259.29	-56.76
PV318	37 38.16	118 54.68	7257.4	979261.34	P 323	-16.58	-264.11	0.08	D 4.95	-260.67	-58.07
PV319	37 38.10	118 55.37	7357.5	979257.40	P 323	-11.03	-261.97	0.17	D 5.11	-258.37	-56.02
PV320	37 36.92	118 55.41	7744.9	979243.94	P 323	13.63	-250.52	1.27	D 9.70	-242.31	-40.47
PV321	37 37.06	118 55.33	7568.6	979252.28	P 323	5.20	-262.94	0.52	D 8.98	-245.46	-43.46
PV322	37 38.29	118 54.14	7207.5	979264.68	P 323	-18.12	-263.94	0.03	D 4.73	-260.72	-57.96
PV323	37 38.45	118 54.38	7210.0	979264.75	P 323	-18.05	-263.96	0.03	D 4.62	-260.85	-58.10
PV324	37 38.76	118 54.38	7309.5	979259.98	P 323	-13.92	-263.22	0.35	D 4.45	-260.28	-57.54
PV325	37 39.45	118 56.63	7789.0	979232.96	G 623	3.08	-262.57	0.20	D 3.59	-260.46	-58.35
PV326	37 37.72	118 56.76	7723.0	979238.50	G 623	4.98	-258.43	1.31	D 6.64	-253.28	-51.62
PV327	37 37.66	118 55.65	7477.0	979252.14	P 423	-4.41	-259.43	0.06	D 5.89	-255.05	-52.95
PV328	37 37.50	118 55.35	7451.0	979254.05	F 423	-4.73	-258.86	0.06	D 6.41	-253.95	-51.81
PV329	37 37.80	118 55.56	7462.0	979251.77	P 423	-6.40	-260.91	0.02	D 5.39	-257.02	-54.85
PV330	37 37.11	118 53.43	7165.0	979274.85	G 623	-10.19	-254.57	0.21	D 9.58	-246.51	-43.87
PV331	37 36.99	118 51.95	7153.0	979271.34	F 323	-14.64	-258.62	0.19	D 7.33	-252.30	-49.95
PV332	37 37.29	118 51.21	7178.0	979266.98	G 523	-17.09	-261.92	0.18	D 5.36	-258.08	-55.14
PV333	37 37.23	118 49.91	7079.1	979275.29	B 223	-18.03	-259.48	0.02	D 4.81	-256.18	-53.12
PV334	37 34.39	118 47.21	7421.0	979270.01	G 723	12.98	-240.14	0.48	D 11.73	-229.91	-27.38
PV335	37 33.93	118 47.09	7566.0	979263.17	G 723	20.38	-237.66	0.91	D 12.07	-227.09	-24.70
PV336	37 33.31	118 47.79	7792.0	979249.58	G 723	28.96	-236.50	0.89	D 18.07	-220.22	-18.01
PV337	37 32.92	118 48.52	8045.0	979230.57	G 723	34.25	-240.12	1.24	D 20.95	-220.64	-18.66
PV338	37 38.69	118 54.66	7272.9	979264.23	B 223	-13.01	-261.06	0.07	D 4.30	-258.27	-55.58
PV339	37 38.58	118 54.38	7246.2	979263.72	P 323	-15.86	-263.01	0.08	D 4.47	-260.05	-57.29
PV340	37 38.53	118 54.26	7240.1	979263.05	P 323	-17.03	-263.97	0.09	D 4.53	-260.95	-58.17
PV341	37 38.38	118 53.84	7195.9	979267.63	P 323	-16.39	-261.82	0.75	D 5.38	-257.95	-55.10
PV342	37 38.57	118 54.65	7267.2	979263.84	P 323	-13.76	-261.62	0.05	D 4.36	-258.77	-56.09
PV343	37 38.52	118 54.78	7307.1	979261.35	P 323	-12.42	-261.65	0.05	D 4.30	-258.85	-56.25
PV400	37 43.43	118 46.89	6993.0	979282.06	G 623	-37.78	-272.88	0.05	D 2.74	-271.65	-68.36
PV401	37 43.42	118 46.10	6883.0	979285.31	G 623	-35.46	-270.21	0.01	D 2.85	-268.88	-65.71
PV402	37 44.28	118 46.03	6985.0	979288.59	G 623	-23.85	-262.08	0.02	D 3.61	-259.99	-56.89
PV403	37 44.89	118 46.83	6985.0	979294.02	G 623	-19.31	-257.54	0.10	D 4.78	-254.28	-51.05
PV404	37 45.53	118 46.92	7273.0	979282.30	A 723	-4.90	-252.95	0.41	D 7.70	-246.76	-43.70
PV405	37 44.72	118 45.48	7151.0	979289.35	F 523	-8.13	-252.02	0.08	D 4.52	-249.02	-46.05
PV406	37 44.24	118 44.76	7090.0	979289.23	G 623	-13.28	-255.10	0.10	D 4.13	-252.48	-49.61
PV407	37 44.84	118 44.82	7274.0	979286.01	G 623	-0.09	-248.18	0.12	D 5.25	-244.44	-41.67
PV408	37 44.92	118 43.88	7674.0	979266.93	G 623	18.30	-243.43	0.46	D 6.66	-238.26	-35.90
PV409	37 44.03	118 43.52	7139.0	979294.98	G 623	-2.62	-246.11	0.16	D 5.21	-242.41	-39.83
PV410	37 43.58	118 43.67	6992.0	979298.05	G 623	-12.71	-251.18	0.05	D 4.09	-248.61	-45.91
PV411	37 43.43	118 44.17	6948.0	979294.52	F 423	-20.15	-257.13	0.04	D 3.52	-255.12	-52.31
PV412	37 43.43	118 42.98	7070.0	979298.33	F 423	-4.88	-246.01	0.17	D 4.60	-242.93	-40.41
PV413	37 43.75	118 42.09	7585.0	979278.47	A 723	23.19	-235.51	1.90	D 8.85	-228.16	-26.13
PV414	37 42.59	118 42.98	6992.0	979295.60	G 623	-13.71	-252.19	0.03	D 3.23	-250.47	-47.89
PV415	37 42.18	118 42.98	6974.0	979293.28	P 323	-17.13	-254.99	0.03	D 2.90	-253.60	-51.00
PV416	37 41.99	118 44.29	6828.0	979288.55	P 323	-34.42	-267.30	0.01	D 2.46	-266.36	-63.39
PV417	37 39.48	118 43.27	6927.0	979291.92	B 223	-18.97	-255.22	0.04	D 2.41	-254.33	-51.65
PV418	37 40.05	118 42.95	6959.0	979290.63	G 623	-18.08	-255.43	0.03	D 2.37	-254.57	-52.01
PV419	37 40.54	118 42.96	6942.0	979290.81	G 623	-20.21	-256.98	0.01	D 2.40	-256.10	-53.53
PV420	37 40.51	118 42.43	7011.0	979292.81	G 623	-11.68	-250.81	0.03	D 2.44	-249.88	-47.44
PV421	37 41.28	118 42.12	7011.0	979299.07	G 623	-6.55	-245.67	0.04	D 2.72	-244.46	-42.03
PV422	37 41.83	118 41.89	7070.0	979300.57	G 623	-0.30	-241.44	0.04	D 3.07	-239.88	-37.52
PV423	37 41.98	118 41.55	7145.0	979302.41	F 423	8.36	-235.33	0.06	D 3.35	-233.49	-31.26
PV424	37 42.44	118 40.53	7687.0	979280.85	C 723	37.06	-225.12	1.48	D 6.25	-220.36	-18.65
PV425	37 41.27	118 41.32	7219.5	979297.31	F 523	11.30	-234.93	0.10	D 2.93	-233.51	-31.40
PV426	37 40.80	118 40.82	7428.0	979296.98	G 623	51.25	-222.10	0.23	D 3.03	-220.57	-18.72
PV427	37 40.32	118 40.21	7402.0	979301.93	G 623	34.45	-218.00	0.49	D 3.10	-216.41	-14.73
PV428	37 38.53	118 44.07	6772.0	979301.30	G 423	-22.77	-263.74	0.01	D 2.61	-252.64	-49.77
PV429	37 38.87	118 44.09	6773.3	979296.60	W423	-27.84	-258.85	0.02	D 2.55	-257.82	-54.91

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV430	37 38.60	118 38.97	7526.0	979293.18	G 623	39.86	-216.82	0.08	D 2.51	-215.81	-14.50
PV431	37 39.60	118 39.14	7713.0	979260.18	C 723	42.98	-220.09	0.33	D 3.06	-218.52	-17.26
PV432	37 37.47	118 40.73	7513.0	979280.80	G 623	27.91	-228.33	0.03	D 2.86	-226.97	-25.30
PV433	37 37.48	118 41.49	7398.3	979283.95	F 423	20.27	-232.06	0.20	D 3.10	-230.47	-28.54
PV434	37 37.16	118 40.69	7457.0	979281.94	G 623	24.24	-230.09	0.09	D 2.82	-228.78	-27.11
PV435	37 44.12	118 38.01	8921.0	979208.36	G 623	78.06	-226.21	0.70	D 7.66	-219.92	-19.56
PV436	37 44.84	118 39.24	9882.0	979142.80	G 623	101.72	-235.32	0.46	D 12.08	-224.45	-24.28
PV437	37 44.92	118 38.45	9232.0	979190.46	G 623	88.21	-226.67	0.29	D 7.90	-220.09	-19.80
PV438	37 44.39	118 38.73	9472.0	979171.94	G 623	93.00	-230.05	0.45	D 9.23	-222.11	-21.83
PV439	37 41.68	118 37.69	7802.0	979285.38	G 623	53.51	-212.59	0.12	D 3.40	-210.68	-9.85
PV440	37 41.61	118 38.79	8310.0	979247.75	G 623	63.71	-219.72	1.55	D 5.99	-215.17	-14.24
PV441	37 42.23	118 39.72	8747.0	979215.57	G 623	71.68	-226.65	0.80	D 9.60	-218.54	-17.64
PV442	37 41.77	118 39.38	8455.0	979237.91	G 623	67.26	-221.11	0.63	D 6.47	-216.07	-15.07
PV443	37 41.02	118 39.09	8127.0	979260.11	G 623	59.73	-217.45	0.91	D 5.00	-213.91	-12.86
PV444	37 40.03	118 43.57	6905.5	979288.62	B 223	-25.09	-260.61	0.02	D 2.37	-259.76	-56.99
PV445	37 40.46	118 45.14	6795.0	979287.73	G 523	-36.99	-268.74	0.01	D 2.37	-267.89	-64.81
PV446	37 37.43	118 39.89	7510.0	979285.34	G 623	32.23	-223.91	0.02	D 2.66	-222.76	-21.31
PV447	37 37.38	118 39.28	7562.0	979287.45	G 623	39.29	-218.62	0.02	D 2.69	-217.43	-16.18
PV448	37 36.81	118 38.96	7503.0	979290.02	G 723	37.15	-218.75	0.08	D 2.77	-217.48	-16.26
PV449	37 37.13	118 38.55	7556.0	979291.53	G 623	43.17	-214.53	0.04	D 2.73	-213.30	-12.27
PV450	37 36.53	118 39.31	7467.0	979287.17	G 623	31.33	-223.35	0.05	D 2.79	-222.06	-20.75
PV451	37 36.36	118 39.00	7471.0	979288.07	G 623	32.85	-221.96	0.05	D 2.85	-220.61	-19.39
PV452	37 36.06	118 38.20	7421.0	979291.08	G 623	31.60	-221.51	0.08	D 2.93	-220.08	-19.09
PV453	37 36.68	118 36.30	7477.0	979294.35	G 623	39.23	-215.79	0.12	D 2.80	-214.49	-13.46
PV454	37 36.18	118 37.57	7267.0	979302.34	G 623	28.21	-219.64	0.07	D 2.71	-218.44	-17.55
PV455	37 35.85	118 37.99	7290.0	979299.82	G 623	28.34	-220.30	0.27	D 3.05	-218.76	-17.78
PV456	37 35.44	118 38.42	7326.0	979295.12	G 623	27.62	-222.25	0.13	D 3.46	-220.30	-19.20
PV457	37 35.83	118 39.28	7411.0	979286.94	G 623	26.85	-225.91	0.03	D 3.11	-224.30	-22.96
PV458	37 35.44	118 39.26	7251.0	979297.86	G 723	23.31	-224.00	0.34	D 3.59	-221.92	-20.56
PV459	37 35.60	118 40.97	7123.0	979297.68	G 723	10.87	-232.07	0.09	D 3.26	-230.33	-28.45
PV460	37 35.42	118 41.84	6978.0	979305.41	G 723	5.23	-232.76	0.27	D 3.73	-230.55	-28.37
PV461	37 41.70	118 56.74	7603.3	979240.71	B 223	-9.86	-269.19	0.16	D 2.98	-267.70	-65.00
PV462	37 42.50	118 57.40	7591.1	979243.27	B 223	-9.62	-268.52	0.10	D 2.77	-267.25	-64.58
PV463	37 41.80	118 59.78	7871.0	979229.89	G 623	4.32	-264.13	0.09	D 3.42	-262.19	-60.35
PV464	37 41.20	118 59.32	7943.0	979225.93	F 523	8.00	-262.90	0.57	D 4.26	-260.12	-58.38
PV465	37 40.89	118 59.63	8064.0	979219.62	G 623	13.51	-261.52	0.57	D 4.20	-258.79	-57.36
PV466	37 40.88	118 59.71	8064.3	979219.25	P 623	13.18	-261.87	0.22	D 3.86	-259.47	-58.07
PV467	37 40.75	119 0.07	8113.5	979216.35	P 623	15.10	-261.63	0.04	D 3.66	-259.43	-58.20
PV468	37 40.91	119 0.29	8128.6	979216.35	P 623	16.28	-260.96	0.02	D 3.45	-258.97	-57.78
PV469	37 40.93	119 0.85	8132.0	979215.34	F 623	15.57	-261.79	0.07	D 3.64	-259.61	-58.59
PV470	37 41.64	119 1.62	8167.0	979222.09	X 623	24.57	-253.98	0.06	D 3.78	-251.66	-50.71
PV471	37 42.51	119 1.64	8055.0	979236.01	X 523	26.70	-248.03	0.02	D 4.15	-245.35	-44.03
PV472	37 42.71	119 4.09	8556.4	979213.65	A 723	51.15	-240.68	2.70	D 10.83	-231.27	-31.16
PV473	37 42.42	119 2.92	8234.9	979230.28	A 723	38.00	-242.87	0.94	D 6.69	-237.63	-36.94
PV474	37 44.38	119 0.11	7566.0	979277.12	G 723	19.13	-238.92	0.69	D 5.04	-235.38	-32.84
PV475	37 45.55	118 58.71	7989.0	979254.72	G 623	34.77	-237.71	0.48	D 3.49	-235.69	-32.99
PV476	37 45.90	118 58.85	8478.0	979221.63	G 623	47.11	-242.04	1.72	D 6.74	-236.73	-34.32
PV477	37 45.64	118 57.85	8325.0	979228.56	G 623	40.05	-243.89	0.60	D 5.95	-239.38	-36.79
PV478	37 46.47	118 59.33	8085.0	979255.85	G 523	43.58	-232.17	0.15	D 2.77	-230.87	-28.25
PV479	37 47.26	118 59.14	8102.0	979259.07	G 623	47.24	-229.09	0.66	D 3.10	-227.45	-24.72
PV480	37 47.36	118 58.08	8052.0	979258.12	G 623	41.45	-233.18	0.01	D 2.42	-232.22	-29.36
PV481	37 47.76	118 59.79	7963.0	979271.95	G 523	46.33	-225.26	0.08	D 2.53	-224.20	-21.41
PV482	37 44.07	118 56.59	8228.0	979200.57	G 623	5.23	-275.39	2.00	D 7.42	-269.42	-66.75
PV483	37 46.43	118 57.60	7694.0	979275.80	G 623	26.84	-235.58	0.64	D 3.55	-233.52	-30.46
PV484	37 39.26	119 1.68	8780.4	979182.27	B 123	45.84	-253.63	0.15	D 4.85	-250.17	-50.48
PV485	37 38.95	119 4.38	7686.0	979249.98	G 723	11.19	-250.96	0.99	D 10.03	-242.42	-43.53
PV486	37 38.47	119 4.67	7658.0	979252.51	G 723	11.79	-249.40	0.05	D 7.70	-243.20	-44.71
PV487	37 37.24	119 4.56	7641.0	979254.21	G 723	13.68	-246.93	0.29	D 7.20	-241.22	-43.34
PV488	37 37.64	119 4.47	7618.0	979253.37	W 623	10.10	-249.73	0.17	D 8.11	-243.11	-44.94
PV489	37 39.03	119 2.32	8917.0	979176.32	G 723	53.07	-251.06	0.23	D 5.70	-246.73	-47.51
PV490	37 39.22	119 2.02	8833.3	979180.60	B 123	49.20	-252.08	0.24	D 5.12	-248.34	-48.85
PV491	37 45.83	118 55.51	7347.0	979291.19	G 523	10.51	-240.07	0.33	D 3.14	-238.44	-35.00
PV492	37 46.08	118 55.44	7196.0	979303.24	G 523	8.00	-237.43	0.48	D 4.11	-234.83	-31.31
PV493	37 46.58	118 54.98	7300.0	979299.56	G 623	13.37	-235.61	0.55	D 5.67	-231.45	-27.98
PV494	37 46.03	118 54.47	7328.0	979296.22	G 623	13.46	-236.47	0.67	D 5.09	-232.89	-29.43

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV495	37 48.22	118 59.73	7978.0	979272.69	G 523	47.81	-224.29	0.14 D	2.53	-223.23	-20.42
PV496	37 48.50	118 59.43	7957.0	979273.92	G 523	46.66	-224.73	0.18 D	2.54	-223.66	-20.80
PV497	37 49.20	118 59.97	7755.0	979280.01	G 623	32.75	-231.75	0.09 D	2.60	-230.64	-27.71
PV498	37 49.78	118 59.11	7880.0	979272.69	G 523	36.32	-232.44	0.09 D	2.41	-231.50	-28.52
PV499	37 49.00	118 59.01	7940.0	979269.64	D 423	40.05	-230.76	0.05 D	2.33	-229.90	-26.97
PV500	37 48.05	118 58.84	8201.0	979261.08	G 623	57.40	-222.31	0.09 D	2.55	-221.21	-18.47
PV501	37 48.61	118 58.05	8021.0	979267.06	G 623	45.65	-227.92	0.04 D	2.32	-227.07	-24.12
PV502	37 48.91	118 57.47	8136.0	979257.54	G 623	46.50	-230.99	0.05 D	2.32	-230.13	-27.18
PV503	37 47.51	118 56.00	7966.0	979260.87	M 323	35.90	-235.80	0.03 D	2.49	-234.78	-31.69
PV504	37 47.31	118 55.59	7958.0	979260.05	G 523	34.62	-236.80	0.07 D	2.81	-235.46	-32.38
PV505	37 47.98	118 55.63	8131.0	979250.17	G 523	40.02	-237.31	0.24 D	2.76	-236.00	-32.99
PV506	37 49.09	118 55.54	8166.0	979252.34	G 523	43.85	-234.66	0.06 D	2.48	-233.64	-30.68
PV507	37 49.58	118 54.97	8250.0	979247.03	G 523	45.72	-235.66	0.06 D	2.71	-234.40	-31.51
PV508	37 48.75	118 54.22	8455.0	979230.53	G 623	49.69	-238.68	0.09 D	3.09	-237.02	-34.21
PV509	37 47.04	118 54.02	9104.0	979176.75	F 523	59.36	-251.13	0.99 D	10.47	-242.00	-39.54
PV510	37 46.65	118 53.44	8810.0	979198.95	G 623	54.53	-245.95	0.49 D	7.06	-240.28	-37.69
PV511	37 46.34	118 53.76	8535.0	979214.72	F 623	44.92	-246.18	2.10 D	6.79	-238.81	-36.05
PV512	37 46.46	118 53.35	9045.0	979179.92	V 523	57.85	-250.64	2.01 D	12.37	-239.62	-37.17
PV513	37 47.78	118 53.91	8561.0	979221.53	G 623	52.07	-239.92	0.09 D	3.53	-237.81	-34.99
PV514	37 47.08	118 52.73	8085.0	979249.61	G 623	36.45	-239.30	0.24 D	4.20	-236.57	-33.56
PV515	37 48.22	118 54.00	8494.0	979227.99	M 323	51.59	-238.12	0.07 D	3.18	-236.36	-33.54
PV516	37 48.11	118 53.73	8573.0	979222.64	G 623	53.82	-238.57	0.02 D	3.28	-236.71	-33.94
PV517	37 48.03	118 53.43	8553.0	979223.81	G 623	53.23	-238.48	0.06 D	3.33	-236.57	-33.81
PV518	37 48.54	118 53.38	8658.0	979218.58	G 523	57.12	-238.18	0.16 D	3.54	-236.04	-33.37
PV519	37 48.32	118 52.27	8973.0	979197.98	G 623	66.43	-239.60	0.30 D	4.58	-236.39	-33.94
PV520	37 47.51	118 49.51	9111.0	979187.24	G 623	69.84	-240.91	0.10 D	5.54	-236.71	-34.51
PV521	37 48.24	118 48.61	9017.0	979195.42	G 623	68.12	-239.42	0.10 D	4.58	-236.19	-34.06
PV522	37 48.50	118 50.24	8848.0	979208.07	G 523	64.52	-237.26	0.12 D	3.93	-234.71	-32.33
PV523	37 49.82	118 48.17	8505.0	979235.55	G 623	57.85	-232.23	0.96 D	4.36	-229.29	-27.11
PV524	37 50.64	118 51.74	8670.0	979227.25	G 623	63.85	-231.85	0.10 D	3.37	-229.89	-27.45
PV525	37 51.65	118 55.30	7977.0	979270.13	G 523	40.15	-231.92	0.13 D	2.53	-230.86	-27.91
PV526	37 50.86	118 56.24	7885.0	979272.20	G 523	34.73	-234.20	0.03 D	2.35	-233.33	-30.26
PV527	37 50.20	118 57.48	7959.0	979269.20	X 623	39.64	-231.81	0.11 D	2.31	-230.97	-27.92
PV528	37 50.24	118 58.07	8067.0	979262.13	G 623	42.66	-232.48	0.06 D	2.37	-231.57	-28.64
PV529	37 44.62	118 55.97	7512.0	979264.75	G 523	1.34	-254.87	0.48 D	3.15	-253.22	-50.01
PV530	37 44.36	118 56.29	7625.0	979249.73	G 623	-2.68	-262.75	0.71 D	3.48	-260.76	-57.67
PV531	37 43.86	118 55.51	7605.0	979246.62	G 623	-6.94	-266.32	0.17 D	2.82	-265.00	-61.90
PV532	37 44.22	118 54.95	7296.0	979268.81	F 523	-14.31	-263.16	0.28 D	2.89	-261.77	-58.40
PV533	37 44.28	118 54.14	7142.0	979277.65	G 523	-20.03	-263.62	0.01 D	2.67	-262.46	-58.90
PV534	37 44.33	118 53.42	7110.0	979280.17	G 523	-20.59	-263.09	0.01 D	2.67	-261.93	-58.32
PV535	37 44.83	118 53.33	7087.0	979287.67	F 323	-15.96	-257.70	0.01 D	2.99	-256.22	-52.59
PV536	37 42.28	118 42.69	7012.3	979294.48	P 323	-12.47	-251.64	0.04 D	3.07	-250.08	-47.53
PV537	37 42.08	118 43.23	6931.4	979292.64	P 323	-21.62	-258.03	0.04 D	2.82	-256.73	-54.03
PV538	37 41.94	118 43.40	6901.7	979292.24	P 323	-24.61	-260.00	0.01 D	2.72	-258.80	-56.07
PV539	37 41.77	118 43.56	6876.5	979291.65	P 323	-27.32	-261.55	0.01 D	2.65	-260.72	-57.95
PV540	37 41.59	118 43.74	6854.9	979290.80	P 323	-29.94	-263.73	0.01 D	2.58	-262.67	-59.85
PV541	37 41.49	118 43.99	6842.3	979289.76	P 323	-32.02	-265.38	0.01 D	2.52	-264.38	-61.50
PV542	37 41.41	118 44.58	6825.1	979287.66	P 323	-35.62	-268.40	0.01 D	2.42	-267.49	-64.46
PV543	37 41.36	118 44.95	6814.0	979286.79	N 223	-37.46	-269.86	0.01 D	2.39	-268.99	-65.89
PV544	37 41.95	118 42.97	6957.5	979293.37	P 323	-18.25	-255.55	0.04 D	2.80	-254.26	-51.63
PV545	37 41.72	118 42.97	6910.0	979296.09	F 523	-19.66	-255.34	0.04 D	2.77	-254.08	-51.42
PV546	37 33.92	118 46.25	7173.0	979284.59	F 523	4.92	-239.72	0.75 D	10.82	-230.42	-27.79
PV547	37 33.36	118 42.97	7063.2	979293.12	B 123	3.95	-236.95	0.46 D	11.07	-227.40	-25.18
PV548	37 33.51	118 42.16	7001.1	979305.35	B 123	10.13	-236.66	1.04 D	9.03	-221.14	-19.03
PV549	37 33.67	118 40.79	7074.0	979305.83	N 323	17.22	-224.05	0.09 D	5.31	-220.25	-18.49
PV550	37 33.62	118 41.52	7024.2	979306.79	P 223	13.58	-225.99	0.80 D	7.38	-220.13	-18.15
PV551	37 33.95	118 41.20	6977.5	979308.33	P 223	10.25	-227.73	0.43 D	5.56	-223.69	-21.78
PV552	37 34.17	118 41.54	6900.7	979314.61	P 223	8.99	-226.37	0.23 D	5.29	-222.59	-20.55
PV553	37 33.76	118 41.73	6958.0	979311.54	P 223	11.90	-225.41	0.41 D	6.84	-220.09	-18.04
PV554	37 33.72	118 41.63	6968.7	979310.75	P 223	12.18	-225.50	0.29 D	6.78	-220.24	-18.22
PV555	37 34.54	118 41.77	7037.0	979303.14	G 723	9.79	-230.22	0.16 D	4.37	-227.36	-25.32
PV556	37 34.69	118 41.06	7063.6	979302.02	G 723	10.95	-229.96	0.15 D	3.88	-227.60	-25.72
PV557	37 34.99	118 41.45	6965.0	979307.72	G 723	6.95	-230.60	0.08 D	3.77	-228.35	-26.29
PV558	37 35.47	118 42.93	6877.0	979308.48	G 723	-1.26	-235.81	0.21 D	4.03	-233.30	-30.85
PV559	37 36.01	118 42.71	7008.0	979298.41	G 723	0.19	-238.83	0.05 D	3.38	-236.96	-34.60

Table 3.—Principal facts for new gravity stations in Long Valley and vicinity, California.—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC 2.67	CBA 2.67	ISO
PV560	37 36.39	118 42.89	6978.0	979300.13	G723	-1.46	-239.45	0.16 D	3.34	-237.63	-35.19
PV561	37 34.80	118 40.20	7037.0	979306.97	G623	13.24	-226.77	0.16 D	3.63	-224.65	-22.99
PV562	37 34.56	118 38.60	7201.0	979300.00	G623	22.03	-223.57	0.07 D	3.35	-221.73	-20.62
PV563	37 33.88	118 38.47	7179.0	979300.91	G623	21.87	-222.99	0.22 D	3.78	-220.72	-19.65
PV564	37 34.15	118 38.89	7260.5	979295.16	G623	23.38	-224.26	0.07 D	3.66	-222.11	-20.98
PV565	37 34.29	118 39.35	7172.0	979302.42	G623	22.12	-222.49	0.06 D	3.54	-220.46	-19.15
PV566	37 34.10	118 40.11	7051.0	979305.34	G723	13.95	-226.54	0.20 D	4.18	-223.87	-22.28
PV567	37 34.05	118 40.50	7074.0	979302.82	G723	13.66	-227.61	0.32 D	4.52	-224.60	-22.93
PV568	37 34.79	118 43.71	6860.0	979305.51	G623	-4.84	-238.81	0.11 D	5.28	-235.04	-32.49
PV569	37 34.94	118 43.24	6844.0	979309.06	G623	-3.01	-236.43	0.09 D	4.76	-233.19	-30.72
PV570	37 44.76	118 55.60	7179.0	979293.08	G623	-1.83	-246.68	0.19 D	3.18	-245.01	-41.58
PV571	37 45.49	118 53.77	7130.0	979299.48	G523	-1.10	-244.28	0.17 D	4.46	-241.33	-37.73
PV572	37 45.40	118 52.02	6998.0	979307.51	G523	-5.34	-244.02	0.34 D	5.00	-240.53	-36.89
PV573	37 46.40	118 51.74	7500.0	979284.59	Q723	17.45	-238.35	2.07 D	8.06	-231.79	-28.47
PV574	37 45.38	118 53.55	7043.0	979305.80	G623	-2.79	-243.00	0.23 D	4.71	-239.81	-36.15
PV575	37 44.63	118 52.36	7056.4	979290.21	B223	-16.03	-256.70	0.07 D	2.94	-255.27	-51.68
PV576	37 44.57	118 51.60	7001.0	979287.49	G523	-23.87	-262.65	0.03 D	2.94	-261.22	-57.56
PV577	37 44.01	118 52.05	7064.0	979274.33	G623	-30.29	-271.22	0.01 D	2.67	-270.06	-66.45
PV578	37 43.43	118 47.84	6877.0	979279.96	G623	-41.38	-275.94	0.03 D	2.64	-274.81	-71.39
PV579	37 42.73	118 49.76	7057.0	979269.14	G623	-34.27	-274.96	0.02 D	2.31	-274.16	-70.67
PV580	37 42.20	118 50.50	7287.0	979257.82	G623	-23.20	-271.74	0.09 D	2.50	-270.75	-67.38
PV581	37 41.93	118 49.87	7064.0	979269.57	G623	-32.01	-272.94	0.06 D	2.37	-272.09	-68.62
PV582	37 40.97	118 51.59	7287.0	979265.47	G623	-13.76	-262.29	0.06 D	2.53	-261.27	-57.97
PV583	37 40.29	118 55.47	7647.0	979236.04	F523	-8.37	-269.18	0.10 D	3.02	-267.66	-65.09
PV584	37 37.83	119 1.89	1053.0	979014.97	V622	94.10	-282.88	4.80 D	31.07	-252.74	-55.23
PV585	37 37.57	119 1.84	958.0	979022.68	A722	93.27	-280.47	3.71 D	28.76	-252.66	-55.19
PV586	37 37.66	119 1.78	946.0	979024.62	A733	93.95	-279.38	2.03 D	26.57	-253.77	-56.22
PV587	37 38.55	119 1.76	9603.0	979125.86	A722	67.75	-259.78	0.64 D	8.84	-252.20	-53.38

Figure 1. Index to plots of gravity station locations (Figures 1A – 1F).

Figure 1A. Gravity stations in the northwest portion of Long Valley.

Figure 1B. Gravity stations in the northeast portion of Long Valley.

Figure 1C. Gravity stations in the southwest portion of Long Valley.

Figure 1D. Gravity stations in the southeast portion of Long Valley.

Figure 1E. Detailed plot of gravity stations near Casa Diablo Hot Springs.

Figure 1F. Detailed plot of gravity stations near Whitmore Hot Springs.