

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

**PRINCIPAL FACTS FOR NEW AND REPROCESSED GRAVITY
DATA IN AND AROUND THE WESTWATER CANYON AND
BLACK RIDGE CANYONS AREAS, UTAH AND COLORADO**

By

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INTRODUCTION

The purpose of this report is to release the principal facts for all gravity data that have been collected by the U.S. Geological Survey in the Westwater Canyon and Black Ridge Canyons areas, Utah and Colorado and vicinity that have not been previously released and which are intended to be used in subsequent geophysical interpretive reports. These data will be merged with existing data to produce contoured gravity anomaly maps for use in future interpretation.

During the early 1960's a series of gravity surveys was conducted in the northwest Uncompahgre area of the Colorado Plateau by J. E. Case. These data lie in and around three current Bureau of Land Management (BLM) Wilderness Study Areas (WSA). These study areas are Westwater Canyon, Black Ridge Canyon, and Black Ridge Canyons West. Additional data were collected in the spring of 1986 directed at filling in data gaps in these WSAs. These WSAs straddle the Utah-Colorado border and also straddle the Moab-Grand Junction 1 by 2 degree quadrangles. Although Black Ridge Canyon and Black Ridge Canyons West are two different areas, this report does not distinguish between the two, because they are basically one area divided in half.

The principal facts for 296 gravity stations are described. The gravity measurements that were collected in the early 1960's were made with Worden gravity meter W-90, which at that time of the 1962 and 1963 surveys had a factory calibration factor of 0.53876. During the 1964 field season, a new factor of 0.53991 was established by the factory. The data collected in the 1986 field season were made with LaCoste and Romberg gravity meter G-17 with a calibration factor, in addition to the factory calibration tables, of 1.0025. The calibration factor was determined by making gravity observations on an established gravity meter calibration loop in California (see Ponce and Oliver, 1981). All gravity stations have been terrain corrected from 0.39 to 166.7 km and reduced to complete Bouguer anomalies.

GRAVITY METHODS

GENERAL

Standard gravity corrections were made on all the data and include: (a) Earth-tide, (b) instrument drift, (c) free-air, (d) Bouguer, (e) latitude, (f) curvature, and (g) terrain correction. Theoretical gravity is based on the Geodetic Reference System of 1967 (International Union of Geodesy and Geophysics, 1971), and observed gravity values are referenced to the International Gravity Standardization Net 1971 (IGSN 71) observed gravity datum described by Morelli (1974, p. 18).

The data collected by Case in the early 1960's were hand reduced and used in interpretive reports at that time, but the reduced values have been misplaced. It was therefore necessary to reprocess these data. Fortunately, the original field maps and notebooks are still available.

BASE STATIONS

Several base stations were used by Case in the early surveys. These were B1, B5, B6, SLINE, and CISCO. During the 1986 field session, ties were made from the primary gravity base GJCT to B1, B5, and CISCO. The ties made it possible to obtain better values for these bases, because the ties made during the original surveys were of long duration and with a meter that at times would drift up to 0.75 mGal per day.

During the 1986 field session, with the exception of several overnight bases, gravity data were tied to the primary gravity base GJCT at the beginning and end of each day. All gravity data were ultimately tied to primary gravity base GJCT, at the post office in Grand Junction, Colorado. GJCT is part of the World Relative Gravity Reference Network described by Jablonsky (1974) and has an IGSN 71 observed gravity value of 979637.21 mGal.

ELEVATION CONTROL

Most gravity measurements were made on bench marks or at spot-elevations. In general, bench marks are considered accurate to about $\frac{1}{2}$ meter, and spot-elevations are considered accurate to about 3 meters. A 3-meter uncertainty in elevation results in a Bouguer anomaly uncertainty of about 0.60 mGal, a value within the allowable error for regional gravity studies, which is estimated to be 2 mGals in this region (Case and Joesting, 1972).

Approximately 50 stations were made along the Colorado River. River gradient was used to establish elevations for these stations. The topographic maps in this area have a 5-foot contour interval along the river and elevations, therefore, are probably within the allowable error range.

Approximately 80 stations were also established using altimetry as elevation control. Drift control was aided with the use of a base altimeter recorded every 5 minutes or by short duration loops between spot elevations. These data are also probably within the allowable error range.

TERRAIN CORRECTIONS

There were no field corrections (Hayford-Bowie zones A and B from 0 to 0.068 km) made at the time of the early surveys, and inner-zone (0.068 to 0.39 km) corrections were not made. During the 1986 field session, field corrections were made and included, but inner-zone corrections were not calculated. The outer-zone terrain corrections from 0.39 km (Hammer zone E) to a radial distance of 166.7 km (Hayford-Bowie zone O) were calculated for all data using a computer program by Plouff (1977) that utilizes digital terrain data.

PRINCIPAL FACTS

The location of the Wilderness Study Areas are shown in figure 1. The locations of the gravity stations are shown in two overlapping plots. Figure 2 shows the stations in and around Westwater Canyon WSA. Figure 3 shows the stations in and around Black Ridge Canyons WSA. The format of the principal fact data is described in table 1. A four digit accuracy code, as explained in table 2, has been assigned to each station describing the general location, elevation, latitude, and the observed gravity accuracies. The principal facts are listed in table 3.

REFERENCES

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- Hayford, John 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.
- International Union of Geodesy and Geophysics, 1971, Geodetic Reference System 1967: International Association of Geodesy Special Publication no. 3, 166 p.
- Morelli, C. (Ed.), 1974, The International Gravity Standardization Net, 1971: 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.
- Ponce, D. A., and Oliver, H. W., 1981, Charleston Peak gravity calibration loop, Nevada: U.S. Geological Survey Open-File Report 81-985, 20 p.

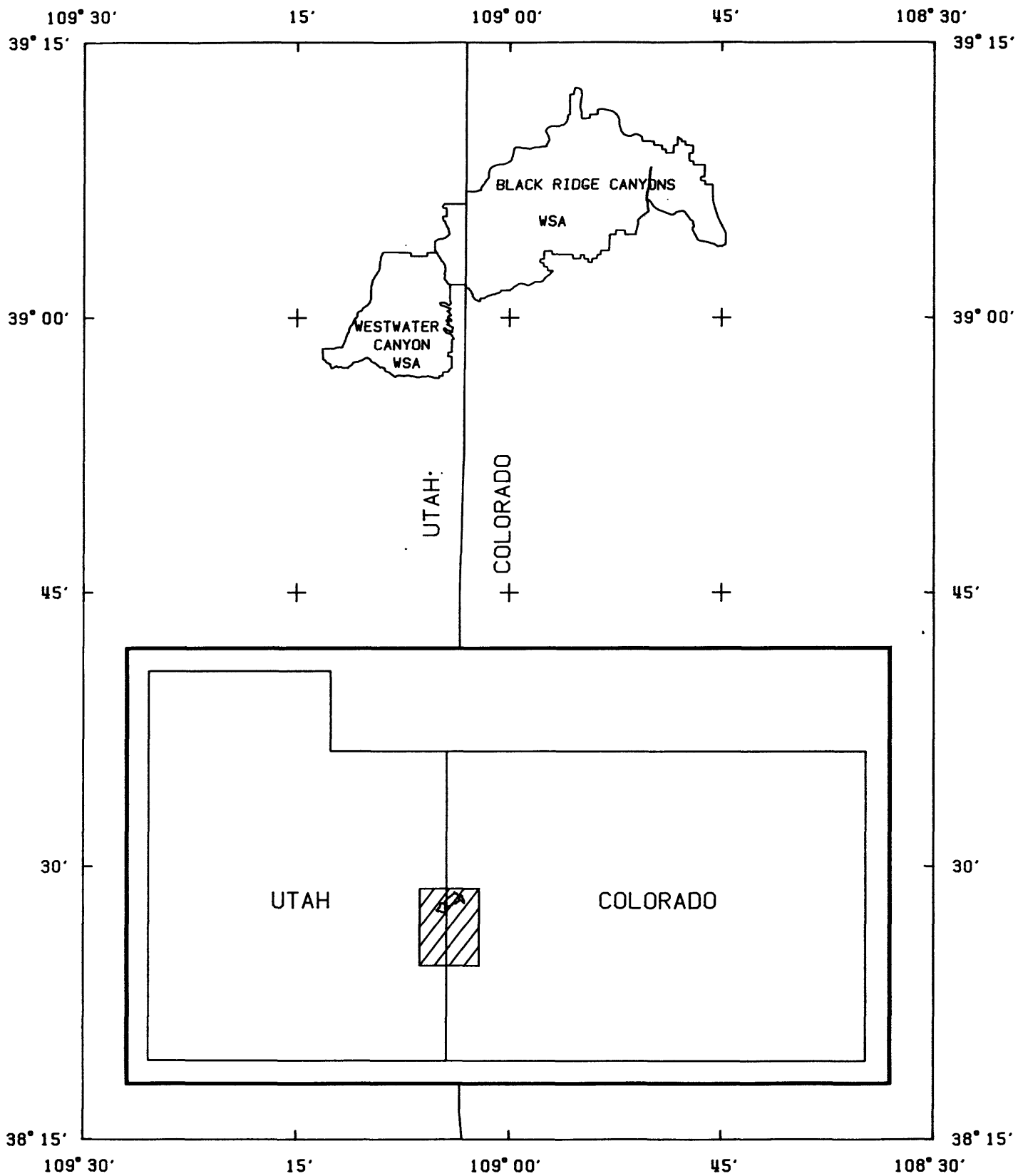


FIGURE 1—Index map of the Westwater Canyon and Black Ridge Canyons areas.

TABLE 1.—*Explanation of principal fact 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
SBA -----	Simple Bouguer anomaly reduced for a density of 2.67 g/cm ³ , to 0.01 mGal
ITC -----	Field terrain correction (0 to 0.068 km) for a density of 2.67 g/cm ³
TC -----	Total terrain correction from 0.39 to 166.7 km plus field correction, where available, 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
CBA -----	Complete Bouguer anomaly reduced for a density of 2.50 g/cm ³ , to 0.01 mGal

TABLE 2.—*Explanation of accuracy codes*

Code	Explanation			
General location code—1 st digit				
A	Altimetry, good control			
B	On level-line bench mark			
C	Contour line interpolation			
D	Destroyed or not found reference mark			
F	Map elevation, black or field checked			
G	Map elevation, brown or not field checked			
H	Near vertical angle bench mark			
I	Special source			
J	Photogrametric elevation			
L	Photogrametric elevation by laser method			
N	Near level-line bench mark			
P	On or near surveyed reference mark			
Q	River gradient interpolation			
R	Lake or resevoir elevation by leveling			
S	Sea level elevation			
T	Photogrametric elevation by Kelsh plotter or least squares			
U	Unknown elevation source			
V	On vertical angle bench mark			
W	Map elevation, blue			
X	On or near boundary marker (e.g. section corner)			
Y	Altimetry, poor control			
t	Relative Elevation with closures within 0.1 ft			
Elevation code—2 nd digit		Elevation accuracy (ft)	Approximate gravity effect (mGal)	
1	On bench mark	0.2	0.01	
2	Near bench mark	0.3	0.02	
3	Transit and good alidade surveys	1.0	0.05	
4	VABM and black map elevation	2.0	0.10	
5	Black map elevation and good photogrammetry	4.0	0.20	
6	Brown map elevation and good photogrammetry on 20 ft contour interval map	10.0	0.50	
7	Brown map elevation on 80 ft contour interval map and good altimetry	20.0	1.20	
Latitude code—3 rd digit (based at lat 37°)		Latitude accuracy (ft)	Distance accuracy (min)	Approximate gravity effect (mGal)
1	Triangulation or special survey data	0.0075	42	0.01
2	Location known to 0.04 in on 1:24,000 map (special care)	0.014	84	0.03
3	0.10 in on 1:24,000 map or 0.04 in on 1:62,500 map	0.035	210	0.06
4	0.21 in on 1:24,000 map or 0.08 in on 1:62,500 map	0.075	420	0.1
5	0.42 in on 1:24,000 map or 0.16 in on 1:62,500 map	0.14	840	0.2
6	0.40 in on 1:62,500 map or 0.1 in on 1:250,000 map	0.35	2,100	1.0
7	0.80 in on 1:62,500 map or 0.2 in on 1:250,000 map	0.75	4,200	2.0
Observed gravity code—4 th digit				Approximate gravity effect (mGal)
1	Local surveys with special gravity meters			0.01
2	Multiple observations with LaCoste and Romberg gravity meter			0.02
3	Average LaCoste and Romberg or multiple observations with Worden gravity meters			0.05
4	LaCoste and Romberg observations with small vibrations and average Worden gravity meters			0.10
5	Data from loops with closure errors this large			0.20
6	Data from loops with closure errors this large			0.50
7	Data from loops with closure errors this large			1.00

TABLE 3.—Principal facts for 296 gravity stations

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC mGal	CBA 2.67	CBA 2.50
G JCT	39 4.15	108 33.93	4588.0	979623.48	B132	-31.44	-187.92	0.00	0.84	-188.43	-178.44
LOMA	39 10.44	108 48.43	4443.0	979634.05	Q833	-43.78	-195.31	0.08	1.25	-195.40	-185.74
WEST	39 5.19	109 6.03	4316.0	979639.10	Q833	-42.91	-190.12	0.00	0.84	-190.59	-181.19
ROSE	38 58.20	109 15.02	4144.0	979633.04	Q833	-54.84	-196.18	0.03	0.63	-196.83	-187.79
WC01	39 3.70	109 7.28	4299.0	979636.50	Q833	-44.92	-191.54	0.04	1.33	-191.52	-182.19
WC02	39 2.48	109 7.55	4277.0	979639.79	Q833	-41.89	-187.77	0.46	3.83	-185.24	-176.12
WC03	39 1.50	109 7.89	4262.0	979638.82	Q833	-42.82	-188.19	0.16	4.23	-185.26	-176.19
WC04	39 1.26	109 8.35	4250.0	979640.59	Q833	-41.83	-186.79	0.07	3.26	-184.83	-175.72
WC05	39 0.82	109 8.57	4244.0	979641.80	Q833	-40.54	-185.29	0.01	3.27	-183.32	-174.23
WC06	38 58.88	109 10.61	4171.0	979633.72	Q833	-52.62	-194.88	0.58	3.74	-192.43	-183.53
WC07	38 57.56	109 12.46	4152.0	979631.31	Q833	-54.87	-196.48	0.00	2.03	-195.74	-186.77
WC08	38 58.10	109 13.06	4148.0	979635.09	Q833	-52.26	-193.74	0.21	1.41	-193.62	-184.62
BR09	39 9.97	108 49.60	4431.0	979635.07	Q833	-43.19	-194.32	0.00	2.26	-193.39	-183.83
BR10	39 9.88	108 50.55	4422.0	979635.31	Q833	-43.66	-194.48	0.00	3.17	-192.64	-183.16
BR11	39 9.98	108 51.70	4416.0	979634.81	Q833	-44.87	-195.49	0.00	3.39	-193.43	-183.97
BR12	39 10.53	108 52.17	4410.0	979635.53	Q833	-45.53	-195.94	0.00	2.85	-194.42	-184.94
BR13	39 11.32	108 52.81	4405.0	979635.99	Q833	-46.71	-196.95	0.01	2.13	-196.15	-186.63
BR14	39 11.29	108 53.86	4404.0	979636.20	Q833	-46.54	-196.75	0.01	1.76	-196.32	-186.78
BR15	39 11.21	108 54.79	4404.0	979636.27	Q833	-46.36	-196.56	0.01	1.61	-196.28	-186.74
BR16	39 11.85	108 54.85	4401.0	979637.26	Q833	-46.59	-196.70	0.01	1.19	-196.84	-187.27
BR17	39 12.59	108 55.17	4412.0	979636.77	F533	-47.14	-197.62	0.20	1.53	-197.42	-187.85
BR18	39 12.20	108 55.94	4392.0	979637.26	Q833	-47.96	-197.75	0.02	2.59	-196.49	-187.03
BR19	39 10.67	108 56.13	4381.0	979636.19	Q833	-47.80	-197.22	0.03	2.99	-195.56	-186.15
BR20	39 10.38	108 57.27	4375.0	979636.43	Q833	-47.70	-196.91	0.00	2.80	-195.44	-186.03
BR21	39 9.63	108 57.27	4367.0	979635.98	Q833	-47.79	-196.73	0.00	2.88	-195.18	-185.79
BR22	39 9.34	108 58.24	4359.0	979636.29	Q833	-47.81	-196.48	0.00	3.10	-194.70	-185.35
BR23	39 9.35	108 59.53	4350.0	979637.09	Q833	-47.87	-196.24	0.00	3.39	-194.17	-184.85
BR24	39 8.78	108 59.87	4345.0	979637.59	Q833	-46.99	-195.19	0.01	3.37	-193.14	-183.83
BR25	39 8.40	109 1.05	4338.0	979638.12	Q833	-46.56	-194.52	0.04	2.37	-193.47	-184.11
BR26	39 7.62	109 1.60	4336.0	979639.24	Q833	-44.48	-192.37	0.01	2.47	-191.22	-181.87
BR27	39 6.96	109 3.07	4331.0	979639.73	Q833	-43.48	-191.20	0.15	1.70	-190.82	-181.44
BR28	39 7.16	109 3.78	4328.0	979639.53	Q833	-44.26	-191.88	0.00	1.23	-191.97	-182.56
BR29	39 6.83	109 4.75	4323.0	979639.35	Q833	-44.43	-191.87	0.01	0.91	-192.28	-182.87
BR30	39 6.13	109 5.06	4317.0	979639.23	Q833	-44.07	-191.31	0.00	0.84	-191.79	-182.38
BR31	39 3.56	108 46.44	7040.0	979481.92	F533	58.32	-181.79	0.00	2.50	-180.81	-165.58
BR32	39 5.08	108 47.44	6816.0	979495.47	F533	48.58	-183.89	0.00	2.96	-182.45	-167.74
BR33	39 5.58	108 47.63	6881.0	979488.25	F533	46.73	-187.96	0.11	3.71	-185.77	-170.97
BR34	39 5.75	108 50.08	6789.0	979495.34	F533	44.92	-186.63	0.00	2.88	-185.27	-170.61
BR35	39 5.16	108 50.95	6890.0	979486.19	B133	46.14	-188.86	0.46	3.74	-186.64	-171.81
BR36	39 5.65	108 49.01	6849.0	979491.15	F533	46.52	-187.08	0.14	2.90	-185.70	-170.91
BR37	39 3.23	108 45.90	6817.0	979497.35	F533	53.28	-179.22	0.00	1.91	-178.83	-164.05
BR38	39 7.28	108 50.07	6108.0	979535.86	F533	19.19	-189.14	0.30	2.54	-188.10	-174.90
BR39	39 7.92	108 50.06	5952.0	979542.75	F533	10.48	-192.52	0.01	2.49	-191.53	-178.67
BR40	39 8.24	108 52.09	5777.0	979552.26	F533	3.07	-193.97	0.01	1.50	-193.95	-181.41
BR41	39 9.18	108 53.65	5660.0	979558.95	F533	-2.62	-195.67	0.02	1.58	-195.56	-183.28
BR42	39 9.82	108 53.55	5418.0	979574.03	F533	-11.23	-196.02	0.01	1.58	-195.90	-184.14
BR43	39 9.98	108 55.19	5350.0	979577.43	X533	-14.46	-196.94	0.08	1.36	-197.03	-185.40
BR44	39 9.59	108 54.92	5528.0	979565.99	F533	-8.60	-197.14	0.00	1.61	-197.00	-185.00
BR45	39 8.61	108 53.31	5756.0	979553.82	F533	2.11	-194.21	0.02	1.40	-194.29	-181.79
BR46	39 8.24	108 52.96	5783.0	979553.35	X533	4.72	-192.52	0.01	1.24	-192.76	-180.19
CC05	39 7.32	108 43.86	4674.0	979625.98	B133	-25.52	-184.94	0.00	2.54	-183.77	-173.69
CC06	39 6.01	108 44.12	5787.0	979558.93	B133	13.97	-183.41	0.06	2.69	-182.20	-169.71
BR47	39 4.91	108 43.03	6006.0	979545.06	F533	22.30	-182.54	0.16	4.36	-179.68	-166.82
BR48	39 3.75	108 43.88	6453.0	979520.22	X533	41.18	-178.91	0.02	2.53	-177.89	-163.95
CC08	39 3.42	108 43.90	6593.0	979511.36	B133	45.96	-178.90	0.02	2.46	-177.96	-163.70
BR49	39 3.31	108 44.44	6479.0	979519.02	F533	43.08	-177.90	0.01	1.83	-177.59	-163.54
CC10	39 1.89	108 41.25	6393.0	979522.11	B133	40.18	-177.87	0.03	2.59	-176.79	-162.98
BR50	39 9.85	108 44.95	4487.0	979633.52	F533	-39.30	-192.33	0.00	0.82	-192.86	-183.08
BR51	39 10.73	108 46.50	4474.0	979634.23	F533	-41.10	-193.70	0.00	0.75	-194.29	-184.54
BR52	39 11.20	108 47.62	4492.0	979632.89	F533	-41.45	-194.66	0.00	0.63	-195.37	-185.57
BR53	39 11.16	108 48.74	4516.0	979630.79	F533	-41.24	-195.26	0.00	0.69	-195.92	-186.07
BR54	39 11.59	108 49.86	4574.0	979627.44	F533	-39.77	-195.77	0.00	0.66	-196.47	-186.49
BR55	39 12.58	108 52.10	4662.0	979622.77	X533	-37.63	-196.63	0.01	0.79	-197.21	-187.05
BR56	39 4.32	108 51.32	6336.0	979526.33	F533	35.45	-180.65	0.00	1.42	-180.74	-166.97
BR57	39 4.54	108 52.89	6209.0	979533.74	F533	30.61	-181.16	0.02	1.05	-181.62	-168.11
BR58	39 4.98	108 53.54	6092.0	979540.06	F533	25.28	-182.50	0.00	1.05	-182.95	-169.69
BR59	39 5.02	108 54.17	6144.0	979535.77	F533	25.82	-183.74	0.00	1.26	-183.98	-170.62
BR60	39 5.61	108 54.60	5988.0	979544.81	F533	19.33	-184.90	0.01	1.27	-185.13	-172.11
BR61	39 6.17	108 54.71	5902.0	979549.29	F533	14.90	-186.40	0.00	1.10	-186.79	-173.95
BR62	39 7.16	108 55.68	5853.0	979548.18	F533	7.72	-191.91	0.01	1.46	-191.93	-179.22

TABLE 3.—Principal facts for 296 gravity stations—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC mGal	CBA 2.67	CBA 2.50
BR63	39 7.74	108 56.85	5761.0	979551.06	F 533	1.11	-195.39	0.07	2.31	-194.56	-182.10
BR64	39 7.72	108 57.81	5409.0	979575.14	F 533	-7.87	-192.36	0.00	0.73	-193.08	-181.29
BR65	39 8.20	108 58.80	5189.0	979587.93	F 533	-16.46	-193.44	0.02	0.85	-194.03	-182.72
BR66	39 6.67	108 54.82	6028.0	979538.46	F 533	15.18	-190.42	0.34	2.27	-189.65	-176.61
BR67	39 3.88	108 53.90	6289.0	979525.91	X533	31.27	-183.23	0.03	1.17	-183.57	-169.89
BR68	39 3.63	108 54.47	6378.0	979519.37	F 533	33.46	-184.07	0.02	1.69	-183.89	-170.05
BR69	39 3.96	108 53.38	6183.0	979532.65	F 533	28.82	-182.07	0.00	0.95	-182.62	-169.16
BR70	39 2.80	108 53.69	6202.0	979531.88	F 533	30.65	-180.88	0.00	0.94	-181.44	-167.94
BR71	39 3.24	108 54.07	6110.0	979537.89	F 533	27.37	-181.02	0.01	0.97	-181.56	-168.25
BR72	39 3.00	108 55.01	6169.0	979533.78	X533	29.16	-181.24	0.00	0.99	-181.76	-168.33
BR73	39 2.71	108 56.23	6110.0	979537.52	F 533	27.78	-180.61	0.00	0.95	-181.16	-167.86
BR74	39 2.97	108 56.80	6087.0	979539.72	F 533	27.44	-180.17	0.00	0.95	-180.72	-167.47
BR75	39 2.10	108 57.34	6050.0	979539.66	X533	25.18	-181.17	0.43	1.52	-181.15	-168.01
BR76	39 1.84	108 59.03	6044.0	979538.10	F 533	23.44	-182.70	0.00	1.19	-183.01	-169.87
BR77	39 2.64	108 58.38	5910.0	979548.46	F 533	20.03	-181.54	0.00	1.14	-181.89	-169.03
BR78	39 3.16	108 58.17	5850.0	979553.54	F 533	18.70	-180.82	0.00	1.01	-181.30	-168.57
BR79	39 4.35	108 58.63	5611.0	979567.27	F 533	8.22	-183.16	0.00	0.87	-183.76	-171.53
BR80	39 4.88	108 57.53	5652.0	979565.10	C733	9.12	-183.65	0.00	1.14	-183.99	-171.69
BR81	39 5.75	108 58.37	5410.0	979577.03	F 533	-2.98	-187.50	0.00	1.09	-187.86	-176.09
BR82	39 4.09	108 57.28	5761.0	979559.00	C733	14.43	-182.06	0.02	1.17	-182.37	-169.84
BR83	39 5.20	108 59.25	5425.0	979577.26	C733	-0.53	-185.56	0.00	0.73	-186.29	-174.46
BR84	39 6.22	108 59.72	5191.0	979588.57	C733	-12.71	-189.76	0.00	0.78	-190.41	-179.10
BR85	39 6.63	109 0.88	4978.0	979600.74	C733	-21.17	-190.96	0.00	0.66	-191.71	-180.85
BR86	39 1.72	108 59.67	5985.0	979540.66	F 533	20.64	-183.50	0.00	1.27	-183.72	-170.71
BR87	39 2.45	109 0.38	5701.0	979557.41	F 533	9.61	-184.83	0.01	1.16	-185.15	-172.75
BR88	39 3.44	109 0.95	5486.0	979571.29	C733	1.83	-185.28	0.03	1.49	-185.25	-173.34
BR89	39 4.83	109 0.13	5348.0	979581.34	C733	-3.14	-185.54	0.02	0.82	-186.17	-174.52
BR90	39 4.62	109 0.94	5324.0	979582.06	C733	-4.36	-185.95	0.03	0.84	-186.55	-174.95
BR91	39 5.32	109 0.77	5140.0	979593.22	C733	-11.53	-186.84	0.02	0.85	-187.42	-176.22
BR92	39 5.88	109 1.99	4931.0	979604.50	C733	-20.72	-188.90	0.10	0.76	-189.55	-178.80
BR93	39 3.89	108 45.34	6975.0	979485.66	F 533	55.47	-182.42	0.03	3.41	-180.53	-165.50
BR94	39 8.45	108 45.22	4549.0	979631.61	C733	-33.31	-188.47	0.00	1.78	-188.04	-178.19
BR95	39 8.16	108 47.36	4881.0	979610.12	C733	-23.17	-189.65	0.04	3.18	-187.86	-177.38
BR96	39 9.27	108 46.85	4538.0	979629.39	C733	-37.77	-192.55	0.00	1.55	-192.35	-182.51
BR97	39 8.98	108 48.95	4732.0	979617.66	C733	-30.85	-192.24	0.06	4.15	-189.47	-179.37
B1	38 56.95	109 3.17	6356.0	979507.59	F 533	29.46	-187.32	0.00	1.67	-187.16	-173.37
B5	38 59.64	108 44.42	6901.0	979492.45	F 533	61.57	-173.80	0.00	1.47	-173.85	-158.86
B6	38 58.90	108 54.20	6508.0	979514.86	F 534	48.14	-173.83		1.42	-173.92	-159.78
CISCO	38 58.30	109 19.20	4350.0	979607.42	B132	-61.24	-209.61	0.00	0.15	-210.78	-201.26
SLINE	39 12.39	109 3.03	4743.0	979615.28	B134	-37.22	-198.99		0.23	-200.14	-189.77
62002	38 57.15	109 3.63	6249.0	979515.94	F 534	27.46	-185.67		1.55	-185.63	-172.06
62003	38 56.81	109 6.93	5616.0	979545.12	F 534	-2.34	-193.69		1.38	-193.98	-181.78
62004	38 56.25	109 11.08	4452.0	979604.26	F 534	-51.79	-203.63		1.37	-203.60	-193.93
62007	38 56.96	109 1.83	6501.0	979504.94	F 535	40.42	-181.31		2.03	-180.79	-166.71
62008	38 57.20	109 0.67	7134.0	979462.86	F 535	57.47	-185.85		3.84	-183.52	-168.18
62009	38 56.43	109 0.59	7372.0	979451.74	F 535	69.85	-181.59		3.63	-179.46	-163.59
62010	38 55.86	109 1.90	7242.0	979450.20	F 535	56.94	-190.07		4.16	-187.42	-171.86
62011	38 55.56	109 1.26	7594.0	979427.13	B135	67.38	-191.63		5.23	-187.90	-171.64
62012	38 53.24	109 1.61	7891.0	979396.07	F 535	67.65	-201.49		5.00	-197.97	-181.06
62013	38 52.92	109 1.08	8019.0	979389.28	F 535	73.35	-200.15		4.90	-196.72	-179.52
62014	38 56.32	109 3.51	6406.0	979499.45	F 535	26.95	-191.54		1.97	-191.08	-177.20
62015	38 56.14	109 4.47	5930.0	979524.92	F 535	7.95	-194.30		1.79	-194.00	-181.15
62016	38 53.44	109 6.54	5752.0	979516.24	F 535	-13.48	-209.66		1.83	-209.31	-196.84
62017	38 55.09	109 4.77	6133.0	979507.21	F 535	10.87	-198.31		1.90	-197.91	-184.62
62018	38 55.07	109 5.63	6169.0	979501.14	F 535	8.21	-202.19		2.47	-201.23	-187.89
62019	38 55.76	109 5.39	6127.0	979507.33	F 535	9.44	-199.53		1.95	-199.09	-185.81
62020	38 55.60	109 14.76	4173.0	979612.25	F 534	-69.06	-211.39		0.64	-212.04	-202.94
62021	38 55.79	109 13.81	4125.0	979617.85	Q834	-68.26	-208.95		0.92	-209.31	-200.33
62022	38 56.50	109 13.93	4130.0	979626.19	Q834	-60.50	-201.36		0.93	-201.71	-192.72
62023	39 0.76	109 14.92	4346.0	979631.91	B134	-40.75	-188.98		0.36	-189.94	-180.44
62024	39 0.39	109 13.37	4485.0	979621.97	F 534	-37.08	-190.05		0.35	-191.04	-181.24
62025	39 2.20	109 13.44	4635.0	979612.25	F 534	-35.36	-193.45		0.33	-194.48	-184.35
62026	39 2.44	109 14.70	4630.0	979613.63	F 534	-34.81	-192.73		0.18	-193.91	-183.78
62027	39 3.78	109 14.91	4545.0	979617.61	F 534	-40.80	-195.82		0.14	-197.03	-187.08
62028	39 5.66	109 12.47	4540.0	979618.96	C835	-42.69	-197.54		0.17	-198.72	-188.79
62029	39 5.26	109 12.39	4638.0	979613.14	F 535	-38.71	-196.90		0.15	-198.11	-187.96
62030	39 5.00	109 12.53	4655.0	979611.63	F 535	-38.24	-197.01		0.20	-198.17	-187.99
62031	39 5.44	109 11.59	4681.0	979610.97	F 535	-37.10	-196.76		0.23	-197.90	-187.66
62032	39 4.83	109 11.15	4810.0	979601.00	B135	-34.05	-198.10		0.56	-198.93	-188.43
62033	39 4.30	109 11.64	4791.0	979601.68	F 535	-34.37	-197.78		0.54	-198.62	-188.17

TABLE 3.—Principal facts for 296 gravity stations—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC mGal	CBA 2.67	CBA 2.50
62034	39 5.21	109 9.10	4696.0	979610.87	F535	-35.46	-195.62		0.34	-196.65	-186.39
62035	39 5.41	109 8.46	4748.0	979606.82	F535	-34.91	-196.85		0.88	-197.35	-187.00
62036	39 5.86	109 10.00	4528.0	979620.38	F535	-42.69	-197.13		0.24	-198.24	-188.33
62037	39 4.67	109 9.68	4476.0	979623.79	B135	-42.42	-195.08		0.55	-195.87	-186.10
62038	39 3.95	109 10.01	4663.0	979613.17	F535	-34.40	-193.44		0.24	-194.57	-184.37
62039	39 3.57	109 10.56	4692.0	979608.25	F535	-36.03	-196.06		0.35	-197.08	-186.83
62040	39 2.70	109 12.22	4421.0	979623.09	B135	-45.38	-196.17		0.30	-197.20	-187.53
62041	39 4.15	109 8.75	4602.0	979616.97	F535	-36.63	-193.59		0.37	-194.58	-184.52
62042	39 3.32	109 9.22	4730.0	979609.65	F535	-30.69	-192.02		0.35	-193.04	-182.71
62043	39 1.84	109 9.74	4726.0	979608.82	F535	-29.72	-190.91		0.40	-191.88	-181.56
62044	39 0.98	109 9.94	4877.0	979598.40	F535	-24.67	-191.01		0.75	-191.66	-181.02
62045	39 4.01	109 7.39	4310.0	979634.54	C835	-46.30	-193.30		1.08	-193.53	-184.16
62046	39 6.96	109 8.52	4579.0	979619.04	F535	-40.86	-197.04		0.28	-198.11	-188.10
62047	39 6.34	109 9.20	4470.0	979623.54	F535	-45.69	-198.15		0.31	-199.18	-189.41
62048	39 5.02	109 7.21	4428.0	979629.32	F535	-41.92	-192.94		0.68	-193.60	-183.94
62049	39 4.58	109 6.53	4313.0	979637.28	F535	-44.12	-191.22		0.87	-191.67	-182.27
62050	39 5.56	109 6.00	4315.0	979637.16	Q835	-45.50	-192.67		0.83	-193.15	-183.75
62051	39 7.28	109 10.03	4575.0	979624.40	F535	-36.35	-192.39		0.26	-193.49	-183.48
62052	39 6.53	109 10.28	4555.0	979618.55	F535	-42.98	-198.33		0.24	-199.45	-189.48
62053	39 6.10	109 11.94	4530.0	979618.70	C635	-44.54	-199.05		0.19	-200.21	-190.29
62054	39 6.92	109 12.53	4665.0	979611.79	F535	-39.97	-199.08		0.16	-200.29	-190.08
62055	39 5.90	109 13.40	4614.0	979613.02	F535	-42.03	-199.40		0.14	-200.62	-190.52
62056	39 7.16	109 13.73	4597.0	979616.37	F535	-42.14	-198.93		0.22	-200.06	-190.01
62057	39 7.06	109 11.92	4670.0	979611.24	F535	-40.26	-199.54		0.19	-200.71	-190.50
62058	39 4.09	109 13.62	4532.0	979616.74	F535	-43.35	-197.92		0.16	-199.11	-189.19
62059	38 55.75	109 12.12	4355.0	979605.53	X535	-58.90	-207.44		0.86	-207.90	-198.41
62060	38 54.46	109 12.12	4250.0	979603.63	F534	-68.77	-213.72		1.32	-213.71	-204.48
62061	38 53.89	109 12.22	4375.0	979592.89	F534	-66.92	-216.14		0.94	-216.52	-207.00
62062	38 53.22	109 12.65	4590.0	979574.61	F534	-64.00	-220.55		0.81	-221.10	-211.09
62063	38 52.27	109 13.37	4885.0	979551.79	F534	-57.69	-224.30		0.85	-224.85	-214.21
62064	38 51.41	109 14.11	4485.0	979572.13	F534	-73.68	-226.65		0.71	-227.28	-217.50
62065	38 49.55	109 14.09	4125.0	979586.48	Q834	-90.44	-231.13		1.98	-230.43	-221.52
62066	38 49.30	109 14.47	4120.0	979585.66	Q834	-91.36	-231.88		2.23	-230.93	-222.05
62067	38 48.86	109 14.93	4115.0	979585.27	Q834	-91.57	-231.92		2.19	-231.02	-222.14
62068	38 49.52	109 13.23	4125.0	979585.26	Q835	-91.61	-232.30		2.55	-231.04	-222.16
62069	38 52.07	109 9.81	5031.0	979546.92	F535	-48.55	-220.14		0.98	-220.57	-209.62
62070	38 51.05	109 9.35	4973.0	979545.38	F535	-54.03	-223.65		1.10	-223.95	-213.13
62071	38 50.20	109 9.53	5124.0	979531.97	F535	-52.00	-226.76		1.05	-227.14	-215.99
62072	38 49.74	109 7.51	5462.0	979511.27	F535	-40.26	-226.55		1.65	-226.36	-214.51
62073	38 57.68	109 14.11	4183.0	979633.48	F534	-49.96	-192.63		0.61	-193.32	-184.19
62074	38 57.76	109 13.34	4471.0	979614.09	F534	-42.40	-194.89		0.78	-195.45	-185.71
62075	38 57.16	109 12.61	4645.0	979598.58	F534	-40.66	-199.09		1.01	-199.44	-189.33
62076	38 58.24	109 14.21	4204.0	979634.25	F534	-48.04	-191.43		0.51	-192.21	-183.03
62077	38 58.13	109 14.91	4140.0	979633.61	Q834	-54.53	-195.74		0.61	-196.41	-187.38
62078	38 57.11	109 13.86	4130.0	979631.03	Q834	-56.55	-197.42		0.89	-197.81	-188.82
62079	38 52.24	109 5.36	5940.0	979500.83	F535	-9.45	-212.05		3.08	-210.46	-197.66
62080	38 51.35	109 4.60	6361.0	979471.90	F535	2.49	-214.46		2.26	-213.71	-199.95
62081	38 51.93	109 4.69	6382.0	979470.69	F535	2.40	-215.27		2.96	-213.82	-200.05
62082	38 50.94	109 4.53	6491.0	979461.71	F535	5.12	-216.27		2.43	-215.35	-201.31
62083	38 49.88	109 4.88	6226.0	979473.28	F535	-6.65	-219.00		2.39	-218.12	-204.65
62084	38 49.28	109 5.45	6106.0	979472.60	F535	-17.72	-225.98		3.22	-224.26	-211.11
62085	38 49.48	109 6.18	5932.0	979482.93	F535	-24.04	-226.37		2.42	-225.44	-212.62
62086	38 48.05	109 1.90	7198.0	979407.60	F535	21.71	-223.80		5.33	-219.98	-204.59
62087	38 47.52	109 4.45	6679.0	979430.86	F535	-3.02	-230.82		5.62	-226.72	-212.48
62088	38 47.06	109 4.78	6512.0	979440.18	F535	-8.72	-230.83		4.50	-227.84	-213.89
62089	38 46.58	109 4.99	6428.0	979442.99	C735	-13.10	-232.34		5.16	-228.69	-214.96
62090	38 46.30	109 5.53	6236.0	979453.77	C735	-19.95	-232.64		4.45	-229.69	-216.34
62091	38 45.82	109 6.24	6084.0	979458.90	F535	-28.40	-235.90		5.26	-232.14	-219.17
62092	38 45.41	109 6.46	6289.0	979441.82	B135	-25.61	-240.11		8.82	-232.80	-219.60
62093	38 47.93	109 1.03	7259.0	979404.91	C735	24.93	-222.66		5.41	-218.76	-203.24
62094	38 48.53	109 0.10	7440.0	979398.06	C735	34.19	-219.56		4.57	-216.50	-200.53
62095	38 48.88	109 1.04	6775.0	979438.62	C735	11.76	-219.32		3.33	-217.50	-202.91
62096	38 49.28	109 1.46	6449.0	979457.10	C735	-0.99	-220.94		4.62	-217.84	-204.03
62097	38 50.06	109 2.22	6053.0	979481.98	C735	-14.47	-220.92		5.88	-216.54	-203.68
62098	38 49.83	109 3.43	5772.0	979497.11	C735	-25.41	-222.27		5.92	-217.84	-205.58
62099	38 49.63	109 4.06	5633.0	979502.33	C735	-32.96	-225.09		5.40	-221.16	-209.18
62100	39 1.25	109 0.94	6085.0	979531.40	F535	21.47	-186.07		2.61	-184.96	-171.82
62101	39 0.97	109 2.41	5930.0	979539.55	C735	15.46	-186.79		2.11	-186.17	-173.33
62102	39 1.38	109 3.33	5386.0	979573.99	C735	-1.83	-185.53		1.28	-185.70	-174.00
62103	39 1.00	109 3.01	5435.0	979570.00	C735	-0.65	-186.03		1.76	-185.72	-173.94

TABLE 3.—Principal facts for 296 gravity stations—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC mGal	CBA 2.67	CBA 2.50
62104	39 0.76	109 1.89	5548.0	979565.00	C735	5.32	-183.91		2.09	-183.28	-171.28
62105	39 0.97	109 1.30	5583.0	979563.88	C735	7.18	-183.24		1.85	-182.85	-170.76
62106	39 1.11	109 0.32	5681.0	979559.90	C735	12.20	-181.56		1.46	-181.58	-169.24
62107	38 56.06	109 3.54	6295.0	979504.78	C734	22.23	-192.47		1.95	-192.03	-178.39
62108	38 55.45	109 3.42	6415.0	979495.35	C734	24.98	-193.82		2.25	-193.08	-179.20
62109	38 55.24	109 2.79	6600.0	979485.48	C734	32.81	-192.30		2.46	-191.36	-177.08
62110	38 54.95	109 1.74	6797.0	979472.27	C734	38.53	-193.30		3.54	-191.27	-176.64
62111	38 57.21	109 4.24	6092.0	979522.84	C734	19.52	-188.26		1.52	-188.24	-175.01
62112	38 56.81	109 4.73	6090.0	979519.60	C734	16.69	-191.03		1.53	-191.00	-177.77
62113	38 56.73	109 5.22	6010.0	979521.05	C734	10.74	-194.25		1.60	-194.15	-181.10
62114	38 56.82	109 5.72	5906.0	979527.78	C734	7.56	-193.88		1.58	-193.79	-180.97
62115	38 56.80	109 6.28	5774.0	979536.07	C734	3.47	-193.47		1.42	-193.53	-180.99
62116	38 56.95	109 2.39	6443.0	979506.07	C735	36.12	-183.63		1.88	-183.27	-169.30
62117	38 57.36	109 1.27	6540.0	979503.57	C735	42.13	-180.93		1.93	-180.51	-166.34
62118	38 57.67	109 0.51	6620.0	979498.50	C735	44.12	-181.67		1.81	-181.38	-167.02
62119	38 57.63	109 3.25	6261.0	979516.62	C735	28.56	-184.98		1.58	-184.91	-171.32
62120	38 58.25	109 3.26	6251.0	979520.27	C735	30.36	-182.64		1.45	-182.90	-169.32
62121	38 59.12	109 2.87	6284.0	979518.26	C735	30.17	-184.16		1.50	-184.17	-170.52
62122	38 59.62	109 1.86	6458.0	979506.94	C735	34.46	-185.00		2.44	-184.88	-170.91
62123	38 58.80	109 2.05	6219.0	979517.64	C735	23.91	-188.20		1.55	-188.16	-174.65
62124	38 53.17	109 5.99	5770.0	979513.59	C734	-14.04	-210.64		2.82	-209.50	-197.05
62125	38 52.73	109 6.48	5914.0	979506.82	C734	-12.63	-214.33		2.56	-213.27	-200.49
62126	38 54.07	109 6.40	5587.0	979528.77	C734	-17.38	-207.94		1.91	-207.50	-195.40
62127	38 54.56	109 5.81	5789.0	979521.22	C734	-6.67	-204.11		1.84	-203.76	-191.21
62128	38 54.75	109 5.19	5901.0	979516.36	C734	-1.29	-202.55		2.08	-201.96	-189.19
62129	38 55.68	109 4.82	5976.0	979517.22	C734	5.25	-198.57		1.63	-198.43	-185.46
62130	39 3.16	109 7.55	4399.0	979635.25	F536	-35.97	-186.01		1.55	-185.78	-176.24
62131	39 2.90	109 7.93	4285.0	979640.84	Q836	-40.71	-186.86		2.89	-185.28	-176.08
62132	39 2.27	109 7.27	4628.0	979622.36	F536	-26.02	-183.87		1.56	-183.67	-173.63
62133	39 1.90	109 7.18	4689.0	979617.92	F536	-24.18	-184.11		1.76	-183.72	-173.56
62134	39 1.51	109 7.75	4260.0	979639.53	Q836	-42.32	-187.61		4.23	-184.69	-175.62
62135	39 1.27	109 8.31	4250.0	979640.45	Q836	-41.99	-186.94		3.24	-185.01	-175.90
62136	39 0.91	109 8.70	4245.0	979642.78	Q836	-39.59	-184.38		3.30	-182.38	-173.29
62137	39 0.18	109 8.14	4225.0	979635.79	Q836	-47.39	-191.49		5.41	-187.38	-178.47
62138	38 58.97	109 10.34	4170.0	979633.97	Q836	-52.59	-194.82		3.20	-192.91	-183.98
62139	38 58.20	109 11.00	4160.0	979628.95	Q836	-57.42	-199.31		4.54	-196.06	-187.23
62140	38 57.77	109 11.62	4155.0	979628.69	Q836	-57.52	-199.24		3.36	-197.16	-188.27
62141	38 57.70	109 12.79	4150.0	979630.90	Q836	-55.67	-197.22		1.56	-196.94	-187.95
62142	38 56.27	109 11.74	4382.0	979608.14	C734	-54.52	-203.98		1.10	-204.20	-194.67
62143	38 56.32	109 12.66	4303.0	979613.35	C734	-56.81	-203.57		0.88	-204.60	-194.63
62144	38 56.46	109 10.07	4722.0	979590.28	C734	-40.69	-201.75		1.59	-201.53	-191.29
62145	38 56.52	109 9.25	5074.0	979571.63	C734	-26.35	-199.41		1.33	-199.50	-188.47
62146	38 56.66	109 8.42	5259.0	979562.14	C734	-18.66	-198.03		1.49	-197.98	-186.56
62147	38 56.86	109 7.84	5359.0	979560.19	C734	-11.51	-194.28		1.48	-194.25	-182.62
62148	38 53.52	109 12.08	4622.0	979574.04	F534	-62.00	-219.65		0.97	-220.04	-209.98
62149	38 52.94	109 10.31	4948.0	979554.41	F534	-50.14	-218.90		1.16	-219.15	-208.39
62150	38 59.46	109 3.23	6396.0	979509.83	F534	31.77	-186.38		2.26	-185.64	-171.79
62151	39 1.71	109 3.78	5393.0	979573.06	C735	-2.59	-186.53		1.24	-186.74	-175.01
62152	39 1.85	109 4.36	5283.0	979578.38	C735	-7.81	-188.00		1.37	-188.07	-176.59
62153	39 2.45	109 4.63	5008.0	979595.01	C735	-17.92	-188.73		1.28	-188.86	-177.97
62154	39 2.98	109 4.72	4645.0	979618.15	C735	-29.68	-188.11		1.39	-188.08	-178.00
62155	39 3.84	109 5.48	4436.0	979631.06	C735	-37.68	-188.98		1.04	-189.27	-179.62
63156	38 55.48	109 6.38	5805.0	979524.29	F535	-3.46	-201.45		1.58	-201.35	-188.75
63157	38 56.15	109 6.44	5868.0	979522.01	F535	-0.80	-200.94		1.84	-200.59	-187.87
63158	38 56.37	109 6.97	5707.0	979533.40	F535	-4.86	-199.51		1.61	-199.38	-186.99
63159	38 55.50	109 7.89	5562.0	979534.65	F535	-15.96	-205.66		1.79	-205.34	-193.28
63160	38 54.70	109 7.52	5691.0	979522.45	F535	-14.86	-208.96		2.05	-208.39	-196.07
63161	38 53.98	109 10.01	4835.0	979568.85	F535	-47.85	-212.76		1.22	-212.93	-202.42
63162	39 6.80	109 1.25	5160.0	979587.47	F535	-17.59	-193.58		1.37	-193.64	-182.43
63163	39 7.09	109 1.39	5201.0	979584.55	F535	-17.08	-194.47		2.61	-193.30	-182.08
63164	39 1.26	109 4.32	5405.0	979572.68	C734	-1.18	-185.53		1.30	-185.68	-173.93
63165	39 1.23	109 4.66	5350.0	979575.48	C734	-3.50	-185.97		1.54	-185.88	-174.27
63166	39 1.17	109 5.17	5250.0	979582.59	C734	-5.70	-184.76		1.55	-184.65	-173.26
63167	39 1.19	109 5.62	5109.0	979592.88	C734	-8.70	-182.95		1.90	-182.47	-171.41
63168	39 1.14	109 6.00	4958.0	979600.64	C734	-15.05	-184.15		2.47	-183.09	-172.39
63169	39 0.91	109 6.39	4931.0	979603.70	C734	-14.19	-182.37		2.12	-181.66	-170.99
63170	39 0.81	109 5.77	5100.0	979596.20	C734	-5.66	-179.61		1.43	-179.60	-168.52
63171	38 50.54	109 1.26	6871.0	979439.03	F534	18.74	-215.61		4.02	-213.10	-198.34
63172	38 50.88	109 0.55	7785.0	979384.90	F534	50.00	-215.53		7.72	-209.29	-192.78
63173	38 51.29	109 0.23	8743.0	979327.47	F535	81.96	-216.24		13.03	-204.60	-186.35

TABLE 3.—Principal facts for 296 gravity stations—Continued

STATION NAME	LAT deg min	LON deg min	ELEV ft	OG mGal	AC	FAA mGal	SBA mGal	ITC mGal	TC mGal	CBA 2.67	CBA 2.50
63174	38 51.69	109 0.42	8679.0	979336.67	F535	84.56	-211.45		10.21	-202.64	-184.36
63175	38 51.78	109 1.11	8471.0	979348.04	F535	76.26	-212.66		9.84	-204.25	-186.39
63176	38 51.86	109 1.93	8336.0	979351.99	B135	67.41	-216.91		11.49	-206.86	-189.40
63177	38 51.87	109 3.13	7124.0	979431.55	F535	33.08	-209.90		5.27	-206.14	-190.91
63178	38 57.96	109 5.78	6135.0	979517.51	F534	17.13	-192.12		2.54	-191.08	-177.82
63179	38 58.21	109 6.60	5945.0	979530.98	F534	12.37	-190.40		2.20	-189.69	-176.83
63180	38 58.75	109 6.73	5814.0	979542.94	F534	11.23	-187.07		2.14	-186.42	-173.83
64181	38 58.41	109 4.09	6409.0	979502.85	F535	27.55	-191.04		2.84	-189.71	-175.88
64182	38 58.52	109 4.46	5845.0	979540.63	C735	12.17	-187.19		1.86	-186.82	-174.15
64183	38 58.78	109 5.28	5516.0	979561.36	C735	1.59	-186.54		2.16	-185.84	-173.91
64184	38 59.12	109 5.82	5326.0	979575.87	C735	-2.26	-183.91		2.10	-183.26	-171.73
64185	38 59.19	109 6.27	5142.0	979587.02	C735	-8.50	-183.88		2.54	-182.77	-171.67
64186	38 59.51	109 6.73	5070.0	979592.47	C735	-10.29	-183.22		2.06	-182.58	-171.61
64187	38 59.97	109 6.68	5036.0	979596.66	C735	-9.98	-181.74		1.58	-181.58	-170.65
64188	38 58.90	109 14.11	4371.0	979621.89	F534	-45.68	-194.76		0.52	-195.57	-186.02
64189	38 59.60	109 12.95	4570.0	979616.16	F534	-33.73	-189.60		0.66	-190.30	-180.33

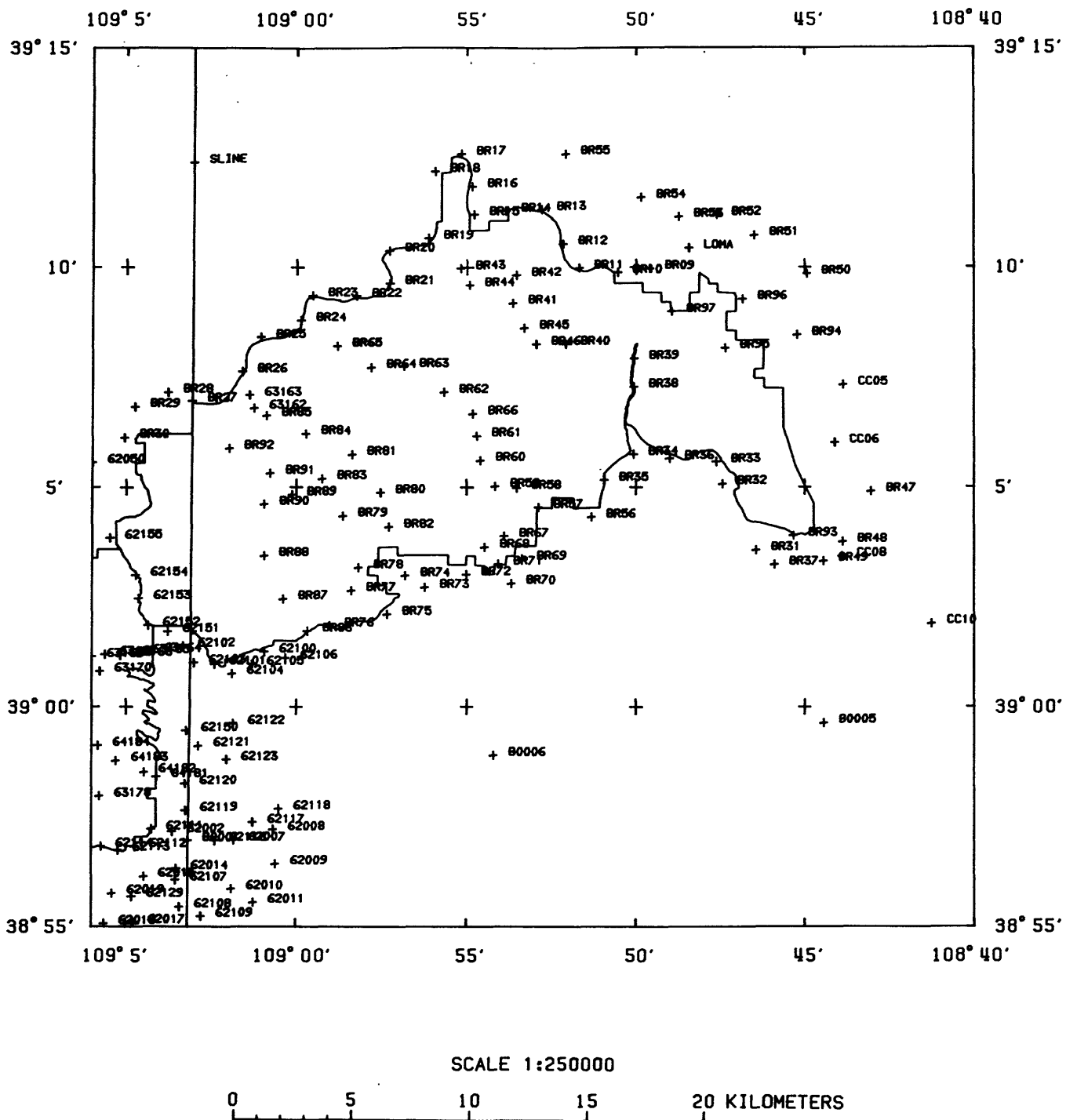


FIGURE 3—Gravity stations in and around Black Ridge Canyons Wilderness Study Areas.