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Principal Facts for Gravity Stations in the
Bruneau-Grandview Area, Owyhee and Elmore Counties,
Idaho, and Elko County, Nevada

By

Donald L. Peterson and Carol W. Wilson
U.S. Geological Survey

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edited or reviewed for conformity with U.S.
Geological Survey standards and nomenclature.

PRINCIPAL FACTS FOR GRAVITY STATIONS IN THE
BRUNEAU-GRANDVIEW AREA, Owyhee AND ELMORE COUNTIES,
IDAHO, AND ELKO COUNTY, NEVADA

By Donald L. Peterson and Carol W. Wilson
U.S. Geological Survey
Denver, Colorado 80225

ABBREVIATIONS OF THE HEADINGS OF THE ACCOMPANYING TABLES OF PRINCIPAL
FACTS ARE EXPLAINED IN THE FOLLOWING LIST:

STATION	STATION DESIGNATION
LAT	NORTH LATITUDE IN DEGREES, MINUTES, AND HUNDREDTHS OF MINUTES
LONG	WEST LONGITUDE IN DEGREES, MINUTES, AND HUNDREDTHS OF MINUTES
ELEV (F)	ELEVATION IN FEET
OBS G	OBSERVED GRAVITY IN MILLIGALS MINUS 978 GALS
FAA	FREE AIR ANOMALY IN MILLIGALS
BA 2.67	SIMPLE BOUGUER ANOMALY IN MILLIGALS FOR ASSUMED DENSITY OF 2.67 G PER CC
BA (OPT)	SIMPLE BOUGUER ANOMALY IN MILLIGALS FOR ASSUMED DENISTY OF 2.45 G PER CC
CC	CURVATURE CORRECTION IN MILLIGALS

THE GRAVITY DATA ARE REFERENCED TO WOOLLARD AIRPORT BASE STATION AT
BOISE, IDAHO (WOOLLARD, 1958).

REFERENCE

Woollard, G. P., 1958, Results for a gravity control network at
airports in the United States: Geophysics, v. 23, no. 3,
p. 529-535.

STATION	LAT	LONG	ELEV(F)	ORS G	FAA	BA2.57	BA(OPT)	CC
BUC001	42 52.84	115 49.04	2472.0	2171.71	-34.11	-118.42	-111.47	0.88
BUC002	42 51.50	115 52.58	2538.0	2158.97	-38.63	-125.19	-118.06	0.91
BUC003	42 50.44	115 53.12	2600.0	2156.10	-34.08	-122.75	-115.45	0.93
BUC004	42 47.79	115 54.84	2712.0	2154.36	-21.32	-113.82	-106.20	0.96
BUC005	42 40.10	115 55.30	3641.0	2066.33	-10.48	-134.66	-124.43	1.23
BUC006	42 37.40	115 54.10	4434.0	2004.64	6.42	-144.81	-132.35	1.42
HB34-20	42 31.50	115 54.10	4985.0	1952.62	15.03	-154.99	-140.98	1.53
BUC007	42 26.60	115 53.10	4991.0	1940.83	11.14	-159.08	-145.06	1.53
34-0	42 52.86	115 47.68	2600.0	2168.60	-25.21	-113.89	-106.58	0.93
BUC008	42 25.50	115 53.00	5124.0	1931.92	16.38	-158.39	-143.99	1.56
BUC009	42 25.20	115 53.00	5149.0	1930.77	18.03	-157.58	-143.11	1.56
BUC010	42 24.30	115 53.10	5145.0	1929.69	17.93	-157.55	-143.09	1.56
BUC011	42 23.40	115 53.10	5123.0	1920.75	16.26	-158.47	-144.07	1.58
BUC012	42 22.30	115 52.90	5123.0	1926.45	15.61	-159.12	-144.72	1.55
BUC014	42 11.22	116 6.55	5366.0	1886.75	15.34	-167.67	-152.59	1.59
BUC015	42 10.35	116 6.82	5327.0	1887.82	14.05	-167.64	-152.67	1.59
BUC016	42 9.48	116 6.82	5314.0	1887.04	13.35	-167.89	-152.96	1.59
BUC017	42 8.20	116 7.20	5305.0	1889.96	17.33	-163.60	-148.69	1.58
BUC018	42 7.30	116 7.48	5308.0	1886.48	15.49	-165.55	-150.63	1.58
BUC019	42 5.98	116 7.78	5344.0	1883.07	13.67	-167.23	-152.32	1.58
BUC020	42 4.60	116 7.70	5330.0	1878.89	14.01	-167.78	-152.80	1.59
BUC021	42 3.92	116 7.88	5340.0	1878.40	15.46	-166.66	-151.66	1.59
BUC022	42 2.98	116 8.12	5311.0	1875.82	11.57	-169.57	-154.64	1.59
BUC023	42 2.25	116 8.32	5331.0	1871.25	9.97	-171.85	-156.87	1.59
BUC024	42 1.68	116 8.50	5336.0	1868.98	9.02	-172.97	-157.98	1.59
BUC025	42 0.62	116 8.45	5345.0	1868.75	11.23	-171.07	-156.05	1.59
BR97	41 52.65	116 13.65	5405.0	1849.70	9.73	-174.61	-159.43	1.60
BR95	41 50.30	116 14.05	5599.0	1833.00	15.58	-175.38	-159.64	1.63
34-0	42 52.86	115 47.68	2600.0	2168.55	-25.27	-113.94	-106.64	0.93
BUC026	43 10.55	115 39.50	3285.0	2151.92	-3.29	-115.33	-106.09	1.13
BUC027	43 8.76	115 38.20	3294.0	2143.87	-8.55	-120.90	-111.64	1.14
BUC028	43 15.30	115 32.40	4959.0	2043.59	37.85	-131.29	-117.35	1.53
BUC029	43 15.95	115 30.50	4841.0	2049.07	31.27	-133.84	-120.24	1.51
BUC030	43 16.90	115 29.60	4890.0	2045.65	31.02	-135.76	-122.52	1.51
BUC031	43 17.20	115 28.40	5031.0	2038.65	36.82	-134.77	-120.64	1.54
BUC032	43 17.50	115 27.20	5219.0	2024.86	40.25	-137.75	-123.08	1.57
BUC033	43 19.20	115 26.90	4750.0	2053.72	22.48	-139.52	-126.17	1.49
BUC034	43 18.50	115 26.80	4942.0	2041.24	29.09	-139.46	-125.58	1.52
BUC039	43 36.76	115 15.35	4551.0	2040.60	-35.73	-190.95	-178.16	1.45
BUC040	43 36.08	115 15.78	4488.0	2045.32	-35.91	-188.98	-176.36	1.43
BUC041	43 34.80	115 15.84	4482.0	2048.11	-31.75	-184.62	-172.02	1.43
BUC042	43 33.23	115 16.48	4377.0	2056.00	-31.38	-180.66	-168.36	1.41
BUC043	43 31.76	115 17.98	4339.0	2059.65	-29.09	-177.08	-164.88	1.40
BUC044	43 30.65	115 18.64	4325.0	2060.80	-27.58	-175.09	-162.94	1.40

STATION	LAT	LONG	ELEV(F)	ORIG	FAA	DA2.57	BA(OPT)	CS	
BU0045	42	30.00	115 54.00	4943.0	1950.53	11.23	-157.35	-143.46	1.52
BU0046	42	29.00	115 53.50	5008.0	1945.12	13.43	-157.37	-143.30	1.53
BU0047	42	28.20	115 53.40	4941.0	1947.50	10.71	-157.81	-143.92	1.52
BU0048	42	27.50	115 53.30	4980.0	1944.22	12.15	-157.70	-143.71	1.53
BU0049	42	12.12	116 6.52	5369.0	1890.06	17.58	-165.53	-150.45	1.59
BU0050	42	12.60	116 6.50	5395.0	1890.35	19.60	-164.40	-149.24	1.60
BU0051	42	13.10	116 4.78	5685.0	1873.56	29.32	-164.58	-148.60	1.64
BU0052	42	13.45	116 3.65	5657.0	1875.39	27.99	-164.95	-149.05	1.63
BU0053	42	14.40	116 1.88	5719.0	1873.77	30.77	-164.29	-148.21	1.64
BU0054	42	14.94	116 1.40	5695.0	1876.38	30.32	-163.92	-147.92	1.64
34-0	42	52.86	115 47.68	2600.0	2168.48	-25.33	-114.01	-106.70	0.93
BU0055	43	2.82	116 21.60	2672.0	2163.67	-38.38	-129.52	-122.01	0.95
BU0056	43	3.28	116 19.43	2598.0	2175.36	-34.28	-122.88	-115.58	0.93
BU0057	43	3.28	116 18.82	2568.0	2179.59	-32.86	-120.45	-113.23	0.92
BU0058	43	3.28	116 17.32	2490.0	2189.37	-30.41	-115.34	-108.34	0.89
BU0059	43	2.36	116 15.12	2465.0	2191.81	-28.95	-113.02	-106.10	0.88
BU0060	43	2.38	116 23.65	2805.0	2152.32	-36.50	-132.17	-124.29	0.99
BU0061	43	3.62	116 25.88	2996.0	2144.30	-28.43	-130.61	-122.19	1.05
BU0062	43	4.73	116 24.54	2967.0	2153.18	-23.94	-125.14	-116.80	1.04
BU0063	43	5.18	116 26.12	3086.0	2147.60	-19.01	-124.26	-115.59	1.07
BU0064	43	4.56	116 26.80	3234.0	2132.33	-19.44	-129.74	-120.65	1.12
BU0065	43	6.55	116 28.10	3267.0	2139.23	-12.42	-123.85	-114.67	1.13
BU0066	43	7.87	116 28.70	3253.0	2146.31	-8.64	-119.58	-110.44	1.12
BU0067	43	7.75	116 27.50	3142.0	2157.35	-7.86	-115.02	-106.19	1.09
BU0068	43	7.88	116 26.85	3102.0	2160.27	-8.88	-114.68	-105.96	1.08
BU0069	43	8.15	116 25.50	3078.0	2162.33	-9.49	-114.47	-105.82	1.07
BU0070	43	10.04	116 26.38	3088.0	2165.27	-8.44	-113.77	-105.09	1.08
BU0071	43	9.63	116 28.25	3170.0	2158.21	-7.18	-115.30	-106.39	1.10
BU0072	43	9.30	116 29.58	3217.0	2149.91	-10.56	-120.28	-111.24	1.11
BU0073	43	10.20	116 29.58	3184.0	2153.98	-10.95	-119.54	-110.59	1.10
BU0074	43	11.10	116 29.53	3164.0	2154.62	-13.54	-121.45	-112.56	1.10
BU0075	43	11.05	116 28.68	3138.0	2158.76	-11.77	-118.79	-109.98	1.09
34-0	42	52.86	115 47.68	2600.0	2168.51	-25.30	-113.98	-106.67	0.93
BU0076	43	11.06	116 27.20	3074.0	2168.48	-8.08	-112.92	-104.28	1.07
BU0077	43	11.06	116 26.00	3042.0	2173.28	-6.29	-110.05	-101.50	1.06
BU0078	43	12.80	116 26.00	3023.0	2188.17	4.20	-98.90	-90.41	1.06
BU0079	43	13.68	116 26.00	3027.0	2194.46	9.54	-93.70	-85.19	1.06
BU0080	43	14.55	116 26.00	3030.0	2197.84	11.90	-91.44	-82.93	1.06
BU0081	43	14.54	116 24.82	3034.0	2202.17	16.63	-86.85	-78.33	1.06
BU0082	43	3.97	116 22.32	2795.0	2160.70	-31.45	-126.77	-118.92	0.99
BU0083	42	40.60	115 44.25	3707.0	2082.18	10.82	-115.61	-105.20	1.25
34-0	42	52.86	115 47.68	2600.0	2168.54	-25.27	-113.94	-106.64	0.93

STATION	LAT	LONG	ELEV(F)	ODS G	FAA	RA2.67	BA(OPT)	CC
BU0084	42 54.28	115 36.62	2679.0	2185.13	-3.39	-94.76	-87.23	0.88
BU0085	42 52.55	115 38.50	3041.0	2142.24	-9.65	-113.36	-104.82	1.04
BU0086	42 50.43	115 40.72	3287.0	2112.80	-12.78	-124.89	-115.65	1.13
BU0087	42 51.24	115 43.14	2965.0	2141.04	-16.03	-117.15	-108.82	1.04
BU0088	42 54.63	115 53.05	2470.0	2178.53	-30.15	-114.40	-107.46	0.88
BU0089	42 48.76	115 55.45	2666.0	2157.39	-24.07	-115.00	-107.51	0.95
BU0090	42 51.95	115 52.60	2530.0	2160.62	-38.40	-124.69	-117.58	0.90
BU0091	42 51.90	115 53.80	2596.0	2155.43	-37.32	-125.86	-118.57	0.92
BU0092	42 51.00	115 54.75	2670.0	2149.57	-34.87	-125.94	-118.43	0.95
BU0093	42 51.10	115 56.04	2671.0	2154.54	-29.95	-121.05	-113.55	0.95
BU0094	42 50.24	115 57.38	2704.0	2154.40	-25.70	-117.93	-110.33	0.96
H834-9	42 51.75	115 51.84	2535.0	2159.97	-38.29	-124.75	-117.62	0.90
BU0095	42 59.42	115 47.35	2978.0	2181.81	13.69	-87.88	-79.51	1.04
BU0096	42 59.43	115 47.95	2978.0	2181.06	12.93	-88.64	-80.27	1.04
34-0	42 52.86	115 47.68	2600.0	2168.57	-25.25	-113.92	-106.62	0.93
BU0097	43 21.50	115 26.80	4206.0	2082.06	-3.77	-147.22	-135.40	1.37
BU0098	43 22.80	115 26.30	4156.0	2082.44	-10.04	-151.79	-140.11	1.36
BU0099	43 23.90	115 24.90	4156.0	2078.83	-15.30	-157.05	-145.37	1.36
BU100	43 24.80	115 23.50	4156.0	2077.65	-17.83	-159.58	-147.90	1.36
BU101	43 26.60	115 18.50	4157.0	2072.35	-25.74	-167.52	-155.84	1.36
BU102	43 27.85	115 18.40	4232.0	2068.07	-24.85	-169.19	-157.29	1.38
BU103	43 29.00	115 18.80	4218.0	2067.37	-28.60	-172.46	-160.61	1.37
BU104	43 25.05	115 20.60	4665.0	2045.24	-2.78	-161.88	-148.77	1.47
BU105	42 20.50	115 53.30	5200.0	1917.08	16.17	-161.19	-146.57	1.57
BU106	42 19.70	115 54.05	5233.0	1910.77	14.16	-164.32	-149.61	1.57
BU107	42 18.50	115 55.30	5361.0	1902.96	20.18	-162.67	-147.60	1.59
BU108	42 17.80	115 57.30	5800.0	1871.94	31.46	-166.35	-150.05	1.65
BU109	42 17.15	115 59.85	5714.0	1876.27	28.69	-166.20	-150.14	1.64
BU110	42 23.40	115 53.10	5123.0	1928.19	15.70	-159.03	-144.63	1.55
BU110	42 46.80	116 15.00	3998.0	2036.24	-17.06	-153.42	-142.18	1.32
BU111	42 45.80	116 17.20	4337.0	2010.51	-9.43	-157.35	-145.16	1.40
BU113	42 43.50	116 20.20	5145.0	1955.49	14.95	-160.53	-146.07	1.55
BU114	42 42.45	116 22.30	6016.0	1902.64	45.52	-159.66	-142.76	1.58
BU115	42 53.26	116 6.98	2896.0	2137.73	-28.86	-127.63	-119.49	1.02
BU116	42 53.70	116 6.95	2847.0	2141.30	-30.55	-127.65	-119.65	1.00
BU117	42 50.20	116 15.40	3813.0	2070.37	-5.42	-135.46	-124.75	1.23
BU118	42 51.78	116 12.78	3413.0	2100.67	-15.09	-131.50	-121.91	1.17
BU119	42 55.44	116 8.15	2702.0	2154.42	-33.67	-125.83	-118.23	0.96
BU120	42 54.57	116 8.15	2820.0	2144.96	-30.73	-126.91	-118.99	0.99