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

TUSCONORA KORA ~~ELK~~ - ELKOCO

By

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U.S. Geological Survey

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UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.

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Geological Survey standards and nomenclature.

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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
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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

Woolard, G. P., 1958, Results for a gravity control network at
airports in the United States: Geophysics, v. 23, no. 3,
p. 527-535.

STATION	LAT	LONG	ELEV(F)	OBS G	FAA	BA2.57	BA(OPT)	CC
HUC001	42 52.84	115 49.04	2472.0	2171.71	-34.11	-118.42	-111.47	0.88
HUC002	42 51.50	115 52.58	2538.0	2158.97	-38.63	-125.19	-118.06	0.91
HUC003	42 50.44	115 53.12	2600.0	2156.10	-34.08	-122.75	-115.45	0.93
HUC004	42 47.79	115 54.84	2712.0	2154.36	-21.32	-113.82	-106.20	0.96
HUC005	42 40.10	115 55.30	3641.0	2066.33	-10.48	-134.66	-124.43	1.23
HUC006	42 37.40	115 54.10	4434.0	2004.64	6.42	-144.81	-132.35	1.47
HB34-20	42 31.50	115 54.10	4985.0	1952.62	15.03	-154.99	-140.98	1.53
HUC007	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
HUC008	42 25.50	115 53.00	5124.0	1931.92	16.38	-158.39	-143.99	1.56
HUC009	42 25.20	115 53.00	5149.0	1930.77	18.03	-157.58	-143.11	1.56
HUC010	42 24.30	115 53.10	5145.0	1929.69	17.93	-157.55	-143.09	1.56
HUC011	42 23.40	115 53.10	5123.0	1928.75	16.26	-158.47	-144.07	1.55
HUC012	42 22.30	115 52.90	5123.0	1926.45	15.61	-159.12	-144.72	1.55
HUC014	42 11.22	116 6.55	5366.0	1886.75	15.34	-167.67	-152.59	1.59
HUC015	42 10.35	116 6.82	5327.0	1887.82	14.05	-167.64	-152.67	1.59
HUC016	42 9.48	116 6.82	5314.0	1887.04	13.35	-167.89	-152.96	1.59
HUC017	42 8.20	116 7.20	5305.0	1889.96	17.33	-163.60	-148.69	1.58
HUC018	42 7.30	116 7.48	5308.0	1886.48	15.49	-165.55	-150.63	1.58
HUC019	42 5.98	116 7.78	5304.0	1883.07	13.67	-167.23	-152.32	1.58
HUC020	42 4.60	116 7.70	5330.0	1878.89	14.01	-167.78	-152.80	1.59
HUC021	42 3.92	116 7.88	5340.0	1878.40	15.46	-166.66	-151.66	1.59
HUC022	42 2.98	116 8.12	5311.0	1875.82	11.57	-169.57	-154.64	1.59
HUC023	42 2.25	116 8.32	5331.0	1871.25	9.97	-171.85	-156.87	1.59
HUC024	42 1.68	116 8.50	5336.0	1868.98	9.02	-172.97	-157.98	1.59
HUC025	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
HUC026	43 10.05	115 39.50	3285.0	2151.92	-3.29	-115.33	-106.09	1.13
HUC027	43 8.76	115 38.20	3294.0	2143.87	-8.55	-120.90	-111.64	1.14
HUC028	43 15.30	115 32.40	4959.0	2043.59	37.85	-131.29	-117.35	1.53
HUC029	43 15.95	115 30.50	4841.0	2049.07	31.27	-133.84	-120.24	1.51
HUC030	43 16.90	115 29.60	4890.0	2045.65	31.02	-135.76	-122.02	1.51
HUC031	43 17.20	115 28.40	5031.0	2038.65	36.82	-134.77	-120.64	1.54
HUC032	43 17.50	115 27.20	5219.0	2024.86	40.25	-137.75	-123.08	1.57
HUC033	43 19.20	115 26.90	4750.0	2053.72	22.48	-139.52	-126.17	1.49
HUC034	43 18.50	115 26.80	4942.0	2041.24	29.09	-139.46	-125.58	1.52
HUC039	43 36.76	115 15.35	4551.0	2040.67	-35.73	-190.95	-178.16	1.45
HUC040	43 36.08	115 15.78	4488.0	2045.32	-35.91	-188.98	-176.36	1.43
HUC041	43 34.80	115 15.84	4482.0	2048.11	-31.75	-184.62	-172.02	1.43
HUC042	43 33.23	115 16.48	4377.0	2056.00	-31.38	-180.66	-168.36	1.41
HUC043	43 31.76	115 17.98	4339.0	2059.65	-29.09	-177.08	-164.88	1.40
HUC044	43 30.65	115 18.64	4325.0	2060.80	-27.58	-175.09	-162.94	1.40

STATION	LAT	LONG	ELEV(F)	DNS G	FAA	BA2.57	BA(OPT)	CC
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	2163.60	-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 29.58	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	BA2.67	BA(OPT)	CC	
BU0084	42 54.28	115 36.62	2679.0	2185.13	-3.39	-94.76	-87.23	0.95	
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	
HB34-9	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	
4	BJ101	43 26.60	115 18.50	4157.0	2072.35	-25.74	-167.52	-155.84	1.36
BJ102	43 27.85	115 18.40	4232.0	2068.07	-24.85	-169.19	-157.29	1.38	
BJ103	43 29.00	115 18.80	4218.0	2067.37	-28.60	-172.46	-160.61	1.37	
BJ104	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	
BU111	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	1.53	
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	