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GRAVITY SURVEY OF THE TULAROSA VALLEY
AND ADJACENT AREAS, NEW MEXICO

By

D. L. Healey, R. R. Wahl, and F. E. Currey

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ABSTRACT

The gravity survey of the Tularosa Valley and adjacent areas is a compilation of gravity data acquired from several sources and reduced to the 1971 International Gravity Standardization Network datum. In addition, three local surveys were made that helped to fill in gaps in the gravity coverage. The resulting complete Bouguer gravity anomaly map and first- and third-order polynomial maps exhibit anomalies of great lateral extent and amplitudes that exceed 45 mGals.

Five generalized geologic cross sections were constructed and analyzed by the two-dimensional method to investigate the thickness of the valley fill in Tularosa Valley and Jornada Del Muerto. On the basis of an assumed density contrast of 0.4 Mg/m^3 between the valley fill and the bedrock (pre-Cenozoic and Cenozoic rocks, undivided), the calculated depths to the pre-Cenozoic surfaces range from 1,372 to 2,743 m (4,500-9,000 ft).

INTRODUCTION

This report releases the complete Bouguer gravity anomaly map and the geologic interpretation that were discussed by Bath, Healey, and Karably (1977) at the south-central meeting of the Geological Society of America in El Paso, Tex. This gravity study was reported earlier (Healey, 1976) as a chapter in a comprehensive AFWL (Air Force Weapons Laboratory) report. However, the principal facts for the gravity station data were not included in the AFWL report. A companion aeromagnetic survey, covering much of this same area, was reported by Bath (1976).

This work was accomplished under contract with the AFWL, Kirtland Air Force Base, New Mexico. The primary objective was to compile a complete Bouguer anomaly gravity map of the Tularosa Valley and adjacent areas by combining the several gravity surveys made in the area. As described herein, the Tularosa Valley and adjacent areas is that area in south-central New Mexico bounded by lat $32^{\circ}00'$ and $34^{\circ}00'$ and long $105^{\circ}45'$ and $107^{\circ}00'$. The area includes parts of Otero, Doña Ana, Sierra, Lincoln, and Socorro Counties (fig. 1).

A comprehensive study of the saline ground-water resources of Tularosa Basin was made by McLean (1970). His study also included a compilation of drill-hole data and a generalized interpretation of the configuration of the buried pre-Cenozoic rock surface beneath the valley. These data were helpful in formulating ideas and guiding the interpretations reported herein. The geophysical studies made by Zohdy and others (1969) at the White Sands Missile Range were also used.

GRAVITY DATA SOURCES

The gravity data were obtained from the following sources: DOD (Department of Defense, Gravity Services Division), St. Louis, Mo., supplied data from their files to begin the compilation. Additional gravity data were obtained from Zohdy and others (1969); D. L. Peterson (U.S. Geological Survey, unpub. data) on the Holloman and El Paso areas; and McLean (1970).

In addition, the DMA (Defense Mapping Agency) conducted three local gravity surveys to obtain additional data in areas where they had plans for future projects. The additional gravity stations from these three surveys helped to fill in gaps in the gravity coverage. A total of 1,236 gravity stations were compiled.

REDUCTION OF DATA

The DOD and DMA gravity data, when received, had been adjusted to the 1971 IGSN (International Gravity Standardization Network) (International Association of Geodesy, 1971). The data from the other sources were also adjusted to this datum.

The principal gravity reference base station was Pendulum Station 767, located at lat 32°54.1' and long 105°57.6'. The observed gravity value (IGSN) at this base is 979,110.4 mGals (DMA, Topographic Center, written commun., 1975).

None of the data acquired from the above sources had been terrain corrected; therefore, individual gravity stations were terrain corrected by hand through zone H (Hammer, 1939), a radial distance of 2.615 km. The total terrain correction, out to a radial distance of 166.7 km, was then determined by the Plouff (1966) terrain correction program. This program utilizes two sets of maps (card decks) on which the topography has been digitized in 1x1 minute and 3x3 minutes of latitude and longitude.

It was not possible to make corrections for Earth tides. Instrument drift corrections had presumably been made in the course of reduction to observed gravity by those persons who originally acquired the field data.

GENERALIZED GEOLOGIC SETTING

The major structural feature in this area is the Rio Grande rift that extends from Colorado into Mexico (Chapin, 1971; Chapin and Seager, 1975; and Woodward and others, 1975). The rift zone consists of an ensemble of grabens that includes Tularosa Basin and Jornada Del Muerto Basin.

According to Chapin and Seager (1975, p. 318), the early basins of the rift were broad downwarps which received several thousand feet of bolson sediments during Miocene time. The bolson deposits are characterized by intertonguing of alluvial fan, piedmont slope, and alluvial flat/playa facies. Large volumes of basaltic andesite lavas were erupted and interbedded with fanglomerates.

In Miocene and Pliocene time, uplifting and block faulting fragmented the broad basins and created the modern landscape. Rifting apparently culminated at this time.

Basalt-rhyolite volcanism began about 14 m.y. ago and occurred where major northeast-trending lineaments intersected the Rio Grande rift (Chapin and Seager, 1975, p. 311 and p. 318).

The Tertiary history of the nearby Doña Ana County region is reported by Hawley (1975).

The mountain ranges, uplifted in late Miocene or Pliocene time, rise abruptly from the valley floor. These mountain ranges are composed of rocks that range in age from Precambrian to Tertiary. The Precambrian rocks are granitic; Paleozoic rocks are predominantly dolomite, limestone, sandstone, and shale. The Mesozoic rocks are predominantly sandstone, shale, and conglomerate. Large bodies of intrusive rocks (of various ages) that include stocks, laccoliths, dikes, and sills are present. These rocks are predominantly intermediate, calc-alkalic in composition. Tertiary volcanic rocks are predominantly andesite, basalt, latite, and rhyolite. Quaternary basalt flows are present in the northern parts of Tularosa Valley and Jornada Del Muerto.

The geologic map of New Mexico (Dane and Bachman, 1965) was used to construct the geologic base map on which the gravity contours could be superimposed (fig. 2). A reconnaissance study of the surficial deposits in Tularosa was made by Fernald (1976). Range-front faults mapped by Fernald (1976) are also shown on figure 2.

The above described geologic units are generalized into seven map units on figure 2; however, owing to the limited gravity station coverage in such a large area, seven map units may be too detailed. For the purpose of this report, only the terms "fill" and "bedrock" will be used. "Fill" in this sense will include all the low-density bolson type, valley-fill deposits. The term "bedrock" will be understood to include all other rocks.

DENSITY ESTIMATES

Density data are lacking for the Tularosa area; however, generalized estimates of rock density values can be made. In an area immediately south of this report area, Mattick (1967, p. 90) assigned a value of 2.67 Mg/m^3 to the Precambrian rocks and 2.55 Mg/m^3 to the Mesozoic and Paleozoic sedimentary rocks. These values are in agreement with density measurements on similar rock types in other areas (Berman and others, 1942).

The Tertiary and Cretaceous intrusive rocks and the Tertiary extrusive rocks probably have densities similar to the Mesozoic, Paleozoic, and Precambrian rocks described above. For the purpose of this report, no attempt will be made to differentiate between these rocks on the basis of the gravity data.

The unconsolidated valley fill has a low density and probably accounts for the low-gravity anomalies associated with the valley areas. The density contrast difference between this material and the older rocks is important to the depth calculations that follow. Mattick (1967, p. 90) distinguished three layers in the valley fill. On the basis of seismic velocities, he assigned values of 2.15 , 2.20 , and 2.40 Mg/m^3 to these three layers. If these three layers are converted to an average vertical value over short lateral distances, density contrasts are determined that range from 0.35 Mg/m^3 on the west to 0.52 Mg/m^3 on the east end of Mattick's profile. Decker, Cook, Ramberg, and Smithson (1975) used 0.35 Mg/m^3 as the density contrast in the Mesilla Basin west of the Organ Mountains.

Zohdy, Jackson, Mattick, and Peterson (1969, p. 18 and fig. 6) report on a density log taken in T-14, a 1,833-m (6,015-ft) deep hole drilled by the Corps of Engineers near White Sands Headquarters. On the basis of this density log data, they assumed a density contrast of 0.50 Mg/m^3 between the fill material and the underlying pre-Cenozoic rocks.

In the interpretations that follow, density contrasts of 0.40 and 0.50 Mg/m³ are assumed. These contrasts are consistent with the density data cited above. The 0.50 Mg/m³ contrast should yield a calculated depth value that might be considered a minimum depth. However, the 0.40 Mg/m³ may not yield a maximum depth; the actual density contrast could be 0.35 Mg/m³ or even less in various places.

COMPLETE BOUGUER MAP

Although figure 2 encompasses a larger area, the following discussion will be confined to Tularosa Valley, the northern part of Jornada Del Muerto, and the adjacent mountains. The very sparse gravity coverage beyond these places does not fully define the gravity anomalies and will not be discussed.

Figure 2 exhibits several impressive anomalies. A major gravity high trends northward along the mountains west of the Tularosa Valley. This high enters the map from the south, extends through North Anthonys Nose, Bishop Cap, Organ Mountains, San Andres Mountains, and off the map north of the Oscura Mountains. Although not as well defined, gravity highs occur over the Sacramento Mountains, Sierra Blanca, and Carrizo Mountain along the east side of the map. A third major high extends northward from the Hueco Mountains through the Jarilla Mountains to a point southwest of Alamogordo. This high is associated with the band of pre-Cenozoic and Cenozoic bedrock that crops out through the fill in Tularosa Valley. A long, narrow saddle separates this high from the one associated with the single outcrop of bedrock west of Tularosa.

A major gravity low occurs in Tularosa Valley. This low enters the map from the south (at Newman) and trends northward throughout the entire length of the valley. West of Three Rivers this low curves eastward and then southeastward through Tularosa and continues approximately 24 km south of Alamogordo.

A major gravity low occurs west of the Oscura Mountains at the north end of Jornada Del Muerto.

RESIDUAL GRAVITY MAPS

As part of the gravity study, two residual maps were constructed. First- and third-degree polynomial surfaces were calculated and removed from the gravity data. The resulting first-order surface residual map is shown on figure 3 and the third-order surface residual map on figure 4. The calculated polynomial surfaces are shown superimposed on each map as heavy contours. The contours are shown on both maps with a 5-mGal contour interval.

The major anomalies shown on the complete Bouguer map (fig. 2) are also shown on figures 3 and 4. In some instances, anomaly amplitudes are modified somewhat, but the general shape and trends are maintained in the residual data.

These two residual maps are presented to document for the AFWL our gravity study of the Tularosa Valley. However, neither map will be discussed in detail.

INTERPRETATION OF ANOMALIES

Woodward and others (1975) indicate range-front normal faults (down to the east) along the west side of the Tularosa Valley on their tectonic map of the Rio Grande region. It is indicated that these faults continue the full length of the valley. A normal fault (down to the west) that trends northward and is located near the center of the valley is also indicated. Range-front normal faults (down to the west) are shown along the Sacramento and Oscura Mountains. Range-front faults mapped by Fernald (1976) and those reported by Dane and Bachman (1965) are shown by a distinctive symbol on figure 2.

Inspection of the gravity anomalies indicates that major normal faults do occur around the valley. The steep gradients in the gravity data along the range fronts are indicative of faulting. Immediately south of this report area, Mattick (1967) reported on a combined seismic and gravity survey from the Hueco Mountains to the Franklin Mountains (in Texas--just south of the 32° line). Mattick reported a major normal fault east of the Franklin Mountains and 2,743 m (9,000 ft) of unconsolidated fill in the trough between the mountains.

Preliminary two-dimensional analyses were made at several places across the valley, using an iterative computer program HOLLIN written by R. R. Wahl. HOLLIN is based on a combination of two-dimensional iterative programs described by Bott (1960) and Negi and Garde (1969) and on an algorithm of Cordell and Henderson (1968). The program assumes that the geologic structure can be represented by prisms that are rectangular in cross section and that are of very long length normal to the profile. The prisms can be assigned individually different density contrasts. The height of any prism can be fixed on the basis of drill hole or outcrop information. The initial prism height is determined from the infinite slab formula (Nettleton, 1940, p. 114), which is based on the assumption that the residual anomaly (that is, the difference between the regional gradient and the complete Bouguer gravity profile) is caused by an horizontal slab of infinite extent. Subsequent iterations use the ratio between the observed and calculated gravity values above each prism to adjust the prism heights (Cordell and Henderson, 1968). Usually five to eight iterations are required to achieve the proper fit. The calculated elevations of the prism bottoms are then plotted to determine the subsurface profiles shown on figure 5.

Input parameters include the average ground surface elevation, the residual gravity, and the density contrast ($\Delta\rho$) for each prism. Over outcropping bedrock, the prism height was set to 0. If drill-hole control is available, the bottom of the prism at that hole is set to the depth of basement rocks in the drill hole.

The resulting interpretations, of course, depend on the assumption about the density contrast--the greater the contrast, the less the structural relief. The results of these two-dimensional analyses are shown as six generalized geologic cross sections on figure 5. The location of each cross section is shown on figure 2. Although each cross section was calculated using density contrasts of 0.5 and 0.4 Mg/m³, only the 0.4 Mg/m³ interpretation is shown.

For interpretative purposes, the regional gradient was taken as a straight line projected between areas of outcropping bedrock. The complete Bouguer anomaly values over these outcrops

determined both the slope of the regional gradient and the zero value. The residual gravity, described above, was then taken as the difference between the regional gradient and the complete Bouguer profile. Over outcropping bedrock, the residual gravity values are zero or nearly zero. All residual values are negative.

Line A-A' (figs. 2 and 5) extend northeastward from a point near North Anthonys Nose to northeast of Newman. The maximum depth calculated to the pre-Cenozoic surface is 2,438 m (8,000 ft) near the center of the valley. Two faults are implied, by the interpretation, near the west end of the line A-A'. The interpretation indicates a uniform dip slope, or unresolved step faults, away from the bedrock outcrop at the east end of the line.

Line B-B' (figs. 2 and 5) extends from the southern San Andres Mountains to the Jarilla Mountains and duplicates a cross section by Zohdy, Jackson, Mattick, and Peterson (1969, fig. 8). The maximum depth calculated to the pre-Cenozoic surface from the 0.5 Mg/m³ contrast agrees with the 1,829-m (6,000-ft) depth reported by Zohdy, Jackson, Mattick, and Peterson (1969), who also assumed an 0.5 Mg/m³ contrast. However, from the 0.4 Mg/m³ contrast, the calculated depth of 2,073 m (6,800 ft) might be more applicable as this subsurface configuration plots below the depth penetrated by T-14. Drill hole T-14 bottomed in unconsolidated fill at 1,833 m (6,015 ft). A major fault (or faults) is indicated on the west end of line B-B'.

Line C-C' (figs. 2 and 5) extends from the San Andreas Mountains across the valley to the Sacramento Mountains. The gravity high, seemingly a buried extension of the Jarilla Mountains structural high, associated with the outcropping bedrock southwest of Alamogordo effectively divides the valley into two basins. The interpreted maximum depth on the west side is 1,737 m (5,700 ft). Four faults are shown near the west side of the valley and a single fault is shown west of the mid-valley gravity high.

A spectacular range-front fault is shown adjacent to the Sacramento Mountains in the eastern basin. Here the valley fill is calculated to be 2,743 m (9,000 ft) thick.

Line D-D' (figs. 2 and 5) extends from the San Andres Mountains northeastward through Tularosa and into the Sacramento Mountains. The same Jarilla Mountains extension-gravity high associated with the bedrock that crops out southwest of Tularosa also divides the valley into two basins along this line. The west basin is conspicuous by the apparent lack of major faults. The basin appears to deepen along a sloping pre-Cenozoic rock surface rather than along fault scarps. However, unresolved step faults may be present here also. The calculated maximum depth is 1,890 m (6,200 ft). The eastern basin is narrow and relatively deep. It appears to be fault controlled on both sides. The calculated maximum thickness is 1,372 m (4,500 ft).

Line E-E' (fig. 2) extends from the northern San Andres Mountains to a point south of Oscura. The interpretation of this line was reported in detail by Healey (1976, p. 120, figs. 6.3, 6.7, 6.8, 6.9) and is not repeated here. This line was interpreted using a density contrast 0.35 Mg/m³ to give what might be considered maximum depths. The interpretation indicated the valley fill is 1,829 m (6,000 ft) thick at the deepest point. Major range-front faults are also shown by the interpretation along this cross section.

Line F-F' extends eastward from a point southeast of Little San Pasqual Mountain to the Oscura Mountains (figs. 2 and 5). This line crosses the deep gravity low that is west of the Oscura Mountains. The interpreted valley-fill thickness (0.4 Mg/m^3) is 2,896 m (9,500 ft). Several faults are indicated by the interpretation--the major one is located at about long $106^{\circ}30'$. On the west, two faults appear to step the basin down eastward. On the east, four faults step the basin down westward.

These interpretations, although unverified, are presented to give some idea as to the possible thickness of the unconsolidated valley fill in Tularosa Valley and Jornada Del Muerto. When compared with the drill-hole data and with seismically determined values reported by Mattick (1967), these thicknesses appear to be reasonable. This interpretation of the subsurface structure of the Tularosa Valley substantiates the interpretation of Zohdy and others (1969) and McLean (1970). However, this interpretation leads to slightly greater thickness of fill than that estimated by Zohdy, Jackson, Mattick, and Peterson (1969).

CONCLUSIONS

The complete Bouguer gravity anomaly map, together with the first- and third-order residual maps, displays large low-gravity anomalies that reflect the great thickness of sedimentary fill in Tularosa Valley and in adjacent areas. The mountains and other areas where the dense bedrock crops out have associated gravity highs. The low-density unconsolidated valley fill has associated gravity lows. The amplitude of these anomalies exceeds 45 mGals in places.

Assumptions were made to determine the probable density contrast between the pre-Cenozoic rocks and the valley fill. Zohdy, Jackson, Mattick, and Peterson (1969) indicated a value of 0.5 Mg/m^3 from their work. Mattick (1967) presented data that indicated a possible lateral change in the density contrast from west to east. This change could range from 0.35 to 0.52 Mg/m^3 . Without definite data in each local area, we decided to adopt a density contrast of 0.4 Mg/m^3 . In an earlier report (Healey, 1976), an interpretation along line E-E' was presented where the assumed density contrast was 0.35 Mg/m^3 . These contrasts are within the range of possible values indicated by available data. The valley-fill thickness ranges from 1,402 to 1,981 m (4,600-6,500 ft), based on the unreported 0.5 Mg/m^3 contrast. Thicknesses calculated from the 0.4 Mg/m^3 contrast range from 1,737 to 2,743 m (5,700-9,000 ft). These latter values are thought to be more representative of the true valley-fill thicknesses.

In places around the valley, the gravity anomaly may not be fully defined owing to a lack of gravity stations. In many areas, gravity stations are lacking in the transitional zone between the valley and the mountains. Because of this, the range-front fault anomalies may not be well defined locally.

The gravity high that extends from the Hueco Mountains through the Jarilla Mountains to a point southwest of Alamogordo is not well defined. Additional stations in all the ranges would be beneficial. New data in any of these areas could alter the contouring locally. However, because of the magnitude of the major anomalies, local changes would not significantly alter the anomaly pattern.

PRINCIPAL FACTS FOR GRAVITY STATIONS

The principal facts for the Tularosa Valley gravity stations are listed in table 1. Abbreviations for the column headings on each page of tabulated data are described below:

Column heading of table 1	Definition
STATION	Gravity station number.
LATITUDE	North latitude in degrees, minutes, and hundredths of minutes.
LONGITUDE	West longitude in degrees, minutes, and hundredths of minutes.
ELEV	Elevation of station, in feet. ¹
OBS GRV	Observed gravity, in mGals.
FA	Free-air anomaly, in mGals.
SB 1	Simple Bouguer anomaly in mGals (reduction density of 2.67 Mg/m ³).
SB 2	Simple Bouguer anomaly in mGals (second reduction density of 2.60 Mg/m ³).
CC	Curvature correction, in mGals.
TC	Hand-terrain correction computed through zone H of the Hammer (1939) system.
TER	Total computer-determined terrain correction, in mGals, carried out to a radial distance of 166.7 km.
(NEAR)	Part of total terrain correction that represents contribution of compartments that intersect the circular inner radius.
TOT	Total terrain correction (hand plus computer values), in mGals.
CB 1	Complete Bouguer anomaly, in mGals, at the reduction density of 2.67 Mg/m ³ .
CB 2	Complete Bouguer anomaly, in mGals, at the second reduction density of 2.60 Mg/m ³ .
ACC	No significance in this listing.
STA	Repeat of the gravity station number.

¹1 foot=0.3048 m

Table 1.--Principal facts for gravity stations in Tularosa Valley and adjacent areas

SUMMARY FOR 1,236 STATIONS FOR TULAROSA VALLEY GRAVITY

COMPUTER TERRAIN CORRECTIONS CARRIED FROM NONCIRCULAR INNER RADIUS OF 2:615 TO 166.7 KM.. DENSITIES ARE 2.67 AND 2.60 Mg/m³. DENSITY OF 2.67 Mg/m³ IS USED FOR VALUES IN COLUMNS LABELED CC, TC, TER, (NEAR), TOT; TC=HAND CORRECTION, AND TER=TOTAL COMPUTER CORRECTION. (NEAR)= PART OF TOTAL THAT REPRESENTS CONTRIBUTION OF COMPARTMENTS THAT INTERSECT INNER CIRCULAR RADIUS. TOT=HAND PLUS COMPUTER TERRAIN.

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
BNDMD 32	0.00	106 35.50	3860.5	979119.10	-1.31	-132.97	-129.52	1.23	0.00	0.01	0.00	0.01	-134.19	-130.71	BNDMD
D029 32	0.05	106 24.63	4030.8	979086.27	-18.19	-155.67	-152.06	1.27	0.00	0.02	0.00	0.02	-156.91	-153.27	D029
D030 32	0.10	106 16.47	4060.0	979079.48	-22.30	-160.77	-157.14	1.27	0.00	-0.08	0.00	-0.08	-162.12	-158.46	D030
U031 32	0.10	106 17.49	4022.9	979077.97	-27.30	-164.51	-160.91	1.26	0.00	-0.09	0.00	-0.09	-165.86	-162.23	D031
D032 32	0.10	106 18.39	3978.9	979078.62	-30.79	-166.49	-162.94	1.26	0.00	-0.09	0.00	-0.09	-167.84	-164.25	D032
NEWMN 32	0.10	106 19.30	4002.1	979077.30	-29.93	-166.42	-162.85	1.26	0.00	-0.08	0.00	-0.08	-167.77	-164.15	NEWMN
BNDYN 32	0.10	106 9.90	4087.5	979091.00	-8.20	-147.61	-143.95	1.28	0.00	-0.01	0.00	-0.01	-148.89	-145.21	BNDYN
BYMON 32	0.10	106 25.20	4036.6	979090.40	-13.58	-151.26	-147.65	1.27	0.00	0.02	0.00	0.02	-152.50	-148.86	BYMON
D033 32	0.46	106 51.52	4190.9	979081.54	-8.42	-151.36	-147.61	1.29	0.00	-0.09	0.00	-0.09	-152.74	-148.96	D033
C-335 32	0.59	106 31.97	4267.4	979108.44	25.49	-120.05	-116.24	1.31	0.20	0.17	0.00	0.37	-120.98	-117.14	C-335
BMK22 32	0.60	106 5.10	4176.8	979085.80	-5.68	-148.13	-144.40	1.29	0.09	0.33	0.00	0.42	-149.01	-145.25	BMK22
D-335 32	0.68	106 32.78	4153.2	979114.23	20.43	-121.23	-117.51	1.29	0.20	0.13	0.00	0.33	-122.19	-118.45	D-335
Z-334 32	0.94	106 30.43	4358.6	979100.89	26.04	-122.61	-118.71	1.32	0.15	0.19	0.00	0.34	-123.59	-119.67	Z-334
E-335 32	0.95	106 33.74	4023.0	979117.69	11.28	-125.93	-122.33	1.26	0.15	0.08	0.00	0.23	-126.97	-123.35	E-335
Y-334 32	1.28	106 29.64	4310.7	979099.98	20.17	-126.85	-123.00	1.31	0.10	0.11	0.00	0.21	-127.95	-124.07	Y-334
YB99 32	1.35	106 33.25	4094.5	979117.67	17.44	-122.21	-118.55	1.28	0.20	0.07	0.00	0.27	-123.22	-119.53	YB99
F-335 32	1.38	106 34.67	3978.7	979118.20	7.04	-128.66	-125.10	1.26	0.10	0.03	0.00	0.13	-129.78	-126.19	F-335
D034 32	1.70	106 37.20	3794.2	979119.70	-9.24	-138.65	-135.25	1.22	0.00	-0.02	0.00	-0.02	-139.89	-136.46	D034
D035 32	1.72	106 52.93	4204.0	979083.32	-7.12	-150.50	-146.74	1.30	0.00	-0.09	0.00	-0.09	-151.89	-148.09	D035
X-334 32	1.73	106 28.67	4203.1	979102.86	12.33	-131.03	-127.27	1.30	0.00	0.06	0.00	0.06	-132.27	-128.48	X-334
P085 32	1.74	106 27.53	4138.0	979094.79	-1.88	-143.01	-139.31	1.28	0.00	0.01	0.00	0.01	-144.28	-140.55	P085
YB115 32	1.76	106 29.09	4236.9	979102.21	14.81	-129.69	-125.91	1.30	0.00	0.06	0.00	0.06	-130.94	-127.11	YB115
P086 32	1.96	106 28.75	4189.0	979102.48	10.31	-132.56	-128.82	1.29	0.00	0.04	0.00	0.04	-133.82	-130.04	P086
W-334 32	2.12	106 27.79	4141.1	979096.87	-0.02	-141.26	-137.56	1.29	0.00	0.00	0.00	0.00	-142.54	-138.81	W-334
YB98 32	2.21	106 33.65	4093.2	979117.14	15.62	-123.98	-120.32	1.28	0.18	0.04	0.00	0.22	-125.04	-121.36	YB98
YB114 32	2.43	106 29.63	4223.3	979101.16	12.05	-132.17	-128.38	1.30	0.00	0.04	0.00	0.04	-133.43	-129.61	YB114
YB97 32	2.94	106 34.00	4063.0	979119.20	13.86	-124.72	-121.09	1.27	0.18	0.02	0.00	0.20	-125.80	-122.13	YB97
D036 32	3.00	106 54.33	4211.9	979080.95	-10.48	-154.13	-150.36	1.30	0.00	-0.09	0.00	-0.09	-155.52	-151.72	D036
YB71 32	3.01	106 28.29	4147.3	979097.00	-0.51	-141.96	-138.26	1.29	0.00	-0.02	0.00	-0.02	-143.27	-139.53	YB71
YB113 32	3.15	106 30.21	4206.4	979101.77	9.62	-133.84	-130.08	1.30	0.02	0.01	0.00	0.03	-135.11	-131.32	YB113
P084 32	3.50	106 28.53	4137.0	979097.45	-1.70	-142.79	-139.10	1.28	0.00	-0.03	0.00	-0.03	-144.11	-140.37	P084
YB112 32	3.85	106 30.78	4209.6	979102.32	9.53	-134.05	-130.28	1.30	0.04	0.00	0.00	0.04	-135.30	-131.51	YB112
YB96 32	3.86	106 34.42	4061.0	979121.22	14.44	-124.07	-120.44	1.27	0.14	0.02	0.00	0.16	-125.18	-121.52	YB96
T-334 32	3.94	106 28.69	4138.8	979098.10	-1.47	-142.63	-138.93	1.28	0.00	-0.03	0.00	-0.03	-143.95	-140.22	T-334
D037 32	3.97	106 56.00	4205.0	979078.74	-14.65	-158.07	-154.31	1.30	0.00	-0.10	0.00	-0.10	-159.46	-155.66	D037
RM1DA 32	4.40	106 9.10	4194.5	979100.50	5.54	-137.52	-133.77	1.29	0.00	-0.01	0.00	-0.01	-138.83	-135.04	RM1DA
YB111 32	4.56	106 31.36	4207.7	979102.59	8.65	-134.86	-131.09	1.30	0.05	-0.01	0.00	0.04	-136.11	-132.31	YB111
YB95 32	4.68	106 34.80	4064.0	979124.40	16.79	-121.82	-118.18	1.27	0.10	0.00	0.00	0.10	-122.98	-119.32	YB95
BML21 32	4.80	106 16.50	4073.9	979088.60	-18.24	-157.19	-153.54	1.27	0.00	-0.09	0.00	-0.09	-158.55	-154.87	BML21
S-334 32	4.82	106 28.93	4112.5	979097.29	-5.95	-146.21	-142.53	1.28	0.00	-0.04	0.00	-0.04	-147.53	-143.82	S-334
D038 32	4.89	106 57.76	4215.8	979080.98	-12.64	-156.43	-152.66	1.30	0.00	-0.10	0.00	-0.10	-157.82	-154.01	D038
D039 32	4.95	106 52.25	4225.0	979080.70	-12.14	-156.24	-152.46	1.30	0.00	-0.09	0.00	-0.09	-157.62	-153.91	D039
S007 32	4.99	106 29.00	4106.0	979096.69	-7.39	-147.43	-143.76	1.28	0.00	-0.04	0.00	-0.04	-148.75	-145.05	S007
R-334 32	5.18	106 29.02	4126.0	979094.87	-7.59	-148.31	-144.62	1.28	0.00	-0.04	0.00	-0.04	-149.64	-145.91	R-334
D041 32	5.20	106 38.90	3808.7	979126.90	-5.42	-135.32	-131.91	1.22	0.00	-0.03	0.00	-0.03	-136.58	-133.14	D041
YB110 32	5.27	106 31.93	4185.4	979107.95	10.96	-131.79	-128.05	1.29	0.08	-0.02	0.00	0.06	-133.02	-129.25	YB110
S008 32	5.29	106 28.68	4111.0	979093.99	-10.03	-150.24	-146.56	1.28	0.00	-0.05	0.00	-0.05	-151.56	-147.85	S008
P078 32	5.38	106 28.21	4090.0	979093.34	-12.77	-152.27	-148.61	1.28	0.00	-0.05	0.00	-0.05	-153.59	-149.90	P078
YB94 32	5.40	106 35.15	4095.8	979124.70	-19.11	-120.59	-116.93	1.28	0.06	0.01	0.00	0.07	-121.80	-118.10	YB94
Q-334 32	5.42	106 28.12	4087.9	979093.16	-13.20	-152.63	-148.97	1.28	0.00	-0.05	0.00	-0.05	-153.95	-150.26	Q-334

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS	GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA	
8009	32	5.59	106	27.40	4084.0	979090.66	-16.30	-155.59	-151.94	1.27	0.00	-0.05	0.00	-0.05	-156.82	-153.23	8009
P066	32	5.63	106	29.16	4136.0	979092.61	-9.52	-150.58	-146.88	1.28	0.00	-0.04	0.00	-0.04	-151.91	-148.17	P066
P-334	32	5.65	106	27.11	4085.9	979089.36	-17.50	-156.86	-153.21	1.28	0.00	-0.05	0.00	-0.05	-158.19	-154.50	P-334
P079	32	5.70	106	26.90	4092.0	979088.07	-18.29	-157.85	-154.19	1.28	0.00	-0.06	0.00	-0.06	-159.19	-155.49	P079
D042	32	5.72	106	59.51	4228.0	979085.75	-7.85	-152.05	-149.27	1.30	0.00	-0.10	0.00	-0.10	-153.45	-149.63	D042
F-334	32	5.89	106	18.97	3995.1	979088.93	-26.80	-163.06	-159.48	1.26	0.00	-0.10	0.00	-0.10	-164.41	-160.81	F-334
TS906	32	5.97	106	25.96	4122.0	979083.51	-20.39	-160.98	-157.30	1.28	0.00	-0.06	0.00	-0.06	-162.32	-158.60	TS906
P080	32	5.99	106	25.59	4076.0	979085.84	-22.42	-161.43	-157.79	1.27	0.00	-0.06	0.00	-0.06	-162.77	-159.09	P080
YB109	32	6.02	106	32.55	4239.2	979110.95	17.60	-126.99	-123.20	1.30	0.10	0.01	0.00	0.11	-128.18	-124.36	YB109
M-334	32	6.13	106	25.04	4085.9	979084.07	-23.44	-162.80	-159.15	1.28	0.00	-0.07	0.00	-0.07	-164.14	-160.45	M-334
YB93	32	6.17	106	35.50	4065.6	979129.06	19.58	-119.08	-115.45	1.27	0.05	0.01	0.00	0.06	-120.30	-116.63	YB93
J-335	32	6.19	106	29.28	4123.4	979092.44	-11.63	-152.26	-148.58	1.28	0.00	-0.04	0.00	-0.04	-153.58	-149.86	J-335
S012	32	6.20	106	24.74	4073.0	979084.28	-24.54	-163.46	-159.82	1.27	0.00	-0.07	0.00	-0.07	-164.80	-161.12	S012
TS912	32	6.29	106	17.67	4088.2	979088.27	-19.25	-158.66	-155.02	1.28	0.00	-0.09	0.00	-0.09	-160.04	-156.35	TS912
L-334	32	6.41	106	23.84	4070.2	979083.33	-26.04	-164.86	-161.22	1.27	0.00	-0.07	0.00	-0.07	-166.21	-162.53	L-334
YB78	32	6.48	106	34.65	4138.4	979126.02	22.97	-118.18	-114.48	1.28	0.08	0.01	0.00	0.09	-119.38	-115.65	YB78
S013	32	6.51	106	23.38	4053.0	979043.75	-27.37	-165.61	-161.98	1.27	0.00	-0.08	0.00	-0.08	-166.95	-163.29	S013
D129	32	6.60	106	55.50	4234.9	979087.10	-7.04	-151.48	-147.70	1.30	0.00	-0.09	0.00	-0.09	-152.88	-149.05	D129
T8611	32	6.60	106	19.84	3995.7	979088.00	-28.63	-164.91	-161.34	1.26	0.00	-0.09	0.00	-0.09	-166.27	-162.66	T8611
K-334	32	6.63	106	22.86	4046.2	979084.24	-27.69	-165.69	-162.07	1.27	0.00	-0.08	0.00	-0.08	-167.04	-163.38	K-334
YB108	32	6.69	106	33.08	4230.0	979117.79	23.06	-121.21	-117.42	1.30	0.10	0.01	0.00	0.11	-122.39	-118.58	YB108
D043	32	6.70	106	51.24	4238.8	979076.95	-16.96	-161.53	-157.74	1.30	0.00	-0.08	0.00	-0.08	-162.91	-159.09	D043
FIRE	32	6.70	106	21.60	4031.5	979084.70	-28.70	-166.20	-162.60	1.27	0.00	-0.09	0.00	-0.09	-167.56	-163.92	FIRE
GL0 8	32	6.70	106	38.50	3823.9	979138.10	5.18	-125.24	-121.82	1.23	0.00	-0.01	0.00	-0.01	-126.48	-123.03	GL0 8
S005	32	6.71	106	29.45	4111.0	979092.52	-13.42	-153.63	-149.96	1.28	0.00	-0.03	0.00	-0.03	-154.94	-151.23	S005
YB77	32	6.72	106	34.23	4198.2	979120.93	23.17	-120.01	-116.26	1.29	0.12	0.01	0.00	0.13	-121.18	-117.39	YB77
P082	32	6.75	106	22.32	4029.0	979084.78	-28.93	-166.34	-162.74	1.27	0.00	-0.09	0.00	-0.09	-167.69	-164.06	P082
H-334	32	6.77	106	20.94	4002.6	979086.98	-29.23	-165.75	-162.17	1.26	0.00	-0.09	0.00	-0.09	-167.10	-163.49	H-334
Y-338	32	6.79	106	15.78	4093.5	979095.25	-12.45	-152.06	-148.40	1.28	0.00	-0.08	0.00	-0.08	-153.42	-149.72	Y-338
YB57	32	6.81	106	25.48	4088.9	979084.52	-23.64	-163.09	-159.44	1.28	0.00	-0.06	0.00	-0.06	-164.43	-160.74	YB57
YB92	32	7.06	106	35.94	4140.7	979126.83	23.21	-118.02	-114.32	1.28	0.02	0.02	0.00	0.04	-119.26	-115.53	YB92
K-335	32	7.15	106	29.54	4107.3	979092.52	-14.37	-154.45	-150.78	1.28	0.00	-0.02	0.00	-0.02	-155.75	-152.04	K-335
S004	32	7.21	106	29.59	4106.0	979091.98	-15.11	-155.15	-151.48	1.28	0.00	-0.02	0.00	-0.02	-156.44	-152.74	S004
YB76	32	7.34	106	33.62	4202.4	979119.27	21.07	-122.26	-118.50	1.30	0.10	0.02	0.00	0.12	-123.44	-119.65	YB76
S002	32	7.49	106	29.66	4102.0	979091.98	-15.86	-155.77	-152.10	1.28	0.00	-0.01	0.00	-0.01	-157.05	-153.35	S002
RM1HU	32	7.50	106	23.40	4062.8	979083.50	-28.04	-166.61	-162.98	1.27	0.00	-0.07	0.00	-0.07	-167.96	-164.29	RM1HU
X-338	32	7.57	106	15.28	4091.5	979099.69	-9.25	-148.80	-145.14	1.28	0.00	-0.08	0.00	-0.08	-150.16	-146.46	X-338
YB58	32	7.66	106	25.35	4078.1	979084.84	-25.48	-164.57	-160.93	1.27	0.00	-0.06	0.00	-0.06	-165.90	-162.22	YB58
D044	32	7.70	106	14.20	4096.1	979098.41	-10.27	-149.98	-146.32	1.28	0.00	-0.08	0.00	-0.08	-151.33	-147.64	D044
YB79	32	7.81	106	32.79	4190.9	979110.30	10.38	-132.56	-128.81	1.29	0.08	0.03	0.00	0.11	-133.75	-129.97	YB79
YB91	32	7.81	106	36.27	4182.1	979127.53	26.78	-115.86	-112.12	1.29	0.02	0.04	0.00	0.06	-117.09	-113.32	YB91
S003	32	7.84	106	29.78	4082.0	979093.40	-16.80	-156.02	-152.37	1.27	0.00	0.01	0.00	0.01	-157.29	-153.60	S003
YB83	32	8.03	106	34.08	4199.5	979122.37	22.96	-120.27	-116.52	1.30	0.08	0.04	0.00	0.12	-121.45	-117.66	YB83
S001	32	8.24	106	29.87	4076.0	979094.28	-17.03	-156.05	-152.40	1.27	0.01	0.03	0.00	0.04	-157.28	-153.60	S001
YB80	32	8.25	106	31.97	4115.1	979105.77	-1.87	-142.23	-138.55	1.28	0.06	0.05	0.00	0.11	-143.40	-139.69	YB80
RUBEN	32	8.48	106	19.97	4072.8	979085.79	-26.14	-165.05	-161.41	1.27	0.00	-0.08	0.00	-0.08	-166.41	-162.73	RUBEN
YB72	32	8.50	106	31.53	4114.8	979101.06	-6.95	-147.29	-143.61	1.28	0.05	0.07	0.00	0.12	-148.46	-144.75	YB72
YB59	32	8.57	106	25.27	4048.2	979086.48	-27.89	-165.96	-162.34	1.27	0.00	-0.05	0.00	-0.05	-167.27	-163.62	YB59
D045	32	8.64	106	59.00	4266.0	979088.33	-5.66	-151.15	-147.34	1.31	0.00	-0.10	0.00	-0.10	-152.56	-148.71	D045
CV-7	32	8.66	106	29.13	4100.0	979091.38	-18.24	-158.08	-154.41	1.28	0.01	0.04	0.00	0.05	-159.31	-155.61	CV-7

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	ORG GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
RANGE 32	8.70	106 29.80	4071.3	979096.30	-16.07	-154.93	-151.29	1.27	0.01	0.06	0.00	0.07	-156.13	-152.46	RANGE
CV-5 32	8.70	106 27.96	4116.1	979086.74	-21.42	-161.81	-158.13	1.28	0.00	0.00	0.00	0.00	-163.08	-159.37	CV-5
YB82 32	8.73	106 33.40	4217.2	979122.37	23.67	-120.16	-116.39	1.30	0.08	0.08	0.00	0.16	-121.30	-117.50	YB82
TS879 32	8.74	106 16.18	4095.8	979097.96	-12.16	-151.86	-148.20	1.28	0.00	-0.08	0.00	-0.08	-153.22	-149.52	TS879
YB75 32	8.76	106 33.89	4211.6	979124.70	25.44	-118.21	-114.44	1.30	0.06	0.08	0.00	0.14	-119.36	-115.57	YB75
YB90 32	8.78	106 36.70	4167.3	979132.87	29.41	-112.72	-108.99	1.29	0.02	0.07	0.00	0.09	-113.92	-110.16	YB90
P063 32	8.94	106 29.68	4075.0	979094.93	-17.42	-156.41	-152.76	1.27	0.01	0.08	0.00	0.09	-157.59	-153.91	P063
U046 32	9.00	106 41.30	3832.3	979126.70	-8.55	-139.26	-135.83	1.23	0.05	-0.01	0.00	0.04	-140.45	-136.99	U046
YB84 32	9.04	106 34.83	4208.0	979128.72	28.74	-114.78	-111.02	1.30	0.06	0.09	0.00	0.15	-115.93	-112.13	YB84
P064 32	9.11	106 30.53	4103.0	979097.21	-12.74	-152.68	-149.01	1.28	0.05	0.11	0.00	0.16	-153.80	-150.10	P064
YB81 32	9.11	106 31.97	4204.0	979103.13	2.68	-140.71	-136.95	1.30	0.06	0.11	0.00	0.17	-141.84	-138.05	YB81
CV-4 32	9.15	106 30.54	4111.9	979097.44	-11.73	-151.97	-148.29	1.28	0.05	0.11	0.00	0.16	-153.09	-149.39	CV-4
YB85 32	9.17	106 35.67	4206.0	979131.35	31.00	-112.45	-108.69	1.30	0.04	0.10	0.00	0.14	-113.61	-109.82	YB85
YB56 32	9.21	106 18.96	4071.8	979090.21	-22.81	-161.68	-158.04	1.27	0.00	-0.08	0.00	-0.08	-163.03	-159.36	YB56
BMB14 32	9.40	106 4.00	4190.6	979101.20	-0.91	-143.83	-140.09	1.29	0.09	0.10	0.00	0.19	-144.93	-141.16	BMB14
YB86 32	9.42	106 36.94	4196.2	979133.39	31.78	-111.34	-107.58	1.29	0.04	0.10	0.00	0.14	-112.49	-108.70	YB86
YR60 32	9.44	106 25.27	4050.8	979086.68	-28.62	-166.78	-163.16	1.27	0.00	-0.03	0.00	-0.03	-168.08	-164.42	YR60
TS881 32	9.50	106 16.34	4071.8	979101.77	-11.64	-150.52	-146.88	1.27	0.00	-0.08	0.00	-0.08	-151.87	-148.20	TS881
YB73 32	9.53	106 32.26	4244.7	979105.00	7.80	-136.97	-133.17	1.30	0.06	0.14	0.00	0.20	-138.07	-134.24	YB73
YB74 32	9.53	106 33.06	4261.8	979114.17	18.58	-126.77	-122.96	1.31	0.06	0.14	0.00	0.20	-127.88	-124.04	YB74
TS928 32	9.57	106 33.74	4292.0	979125.70	32.90	-113.49	-109.65	1.31	0.08	0.14	0.00	0.22	-114.58	-110.71	TS928
P062 32	9.70	106 28.72	4087.0	979092.85	-19.40	-158.80	-155.14	1.28	0.02	0.10	0.00	0.12	-159.95	-156.27	P062
CV-1 32	9.86	106 27.93	4086.3	979090.36	-22.18	-161.55	-157.89	1.28	0.02	0.08	0.00	0.10	-162.72	-159.04	CV-1
YB55 32	9.99	106 18.73	4052.8	979093.87	-21.99	-160.22	-156.60	1.27	0.00	-0.09	0.00	-0.09	-161.57	-157.92	YB55
YB100 32	10.01	106 30.80	4244.4	979102.68	4.80	-139.96	-136.16	1.30	0.08	0.18	0.00	0.28	-141.00	-137.18	YB100
CV-6 32	10.08	106 26.76	4073.1	979088.09	-25.99	-164.91	-161.26	1.27	0.01	0.04	0.00	0.08	-166.13	-162.46	CV-6
YB87 32	10.16	106 37.24	4190.6	979134.49	31.35	-111.57	-107.83	1.29	0.04	0.15	0.00	0.19	-112.68	-108.90	YB87
D047 32	10.19	106 58.09	4233.9	979081.72	-17.39	-161.79	-158.01	1.30	0.00	-0.10	0.00	-0.10	-163.19	-159.37	D047
NATH 32	10.19	106 25.82	4049.8	979087.74	-28.70	-166.82	-163.20	1.27	0.00	0.01	0.00	0.01	-168.08	-164.42	NATH
GLO 9 32	10.20	106 34.80	4259.8	979129.90	33.21	-112.07	-108.26	1.31	0.05	0.22	0.00	0.27	-113.11	-109.28	GLO 9
TS883 32	10.30	106 16.42	4091.2	979102.05	-10.62	-150.16	-146.50	1.28	0.00	-0.08	0.00	-0.08	-151.52	-147.82	TS883
S018 32	10.33	106 25.28	4038.0	979088.26	-29.46	-167.18	-163.57	1.27	0.00	0.00	0.00	0.00	-168.44	-164.80	S018
P061 32	10.45	106 27.26	4066.0	979091.36	-23.89	-162.56	-158.93	1.27	0.02	0.09	0.00	0.11	-163.72	-160.06	P061
YB107 32	10.59	106 33.54	4385.2	979119.10	33.67	-115.89	-111.97	1.33	0.08	0.26	0.00	0.34	-116.87	-112.93	YB107
USBM3 32	10.70	106 42.30	3844.5	979128.20	-8.21	-139.33	-135.90	1.23	0.00	0.01	0.00	0.01	-140.56	-137.09	USBM3
NED 32	10.73	106 25.29	4030.5	979088.88	-30.08	-167.85	-163.95	1.27	0.00	0.02	0.00	0.02	-168.80	-165.16	NED
YB54 32	10.81	106 18.83	4049.9	979094.36	-22.89	-161.02	-157.39	1.27	0.00	-0.08	0.00	-0.08	-162.37	-158.71	YB54
YB101 32	10.83	106 31.16	4410.1	979101.15	17.74	-132.67	-128.73	1.33	0.10	0.31	0.00	0.41	-133.59	-129.62	YB101
YB88 32	10.94	106 37.62	4185.2	979134.20	30.44	-112.65	-108.90	1.29	0.06	0.19	0.00	0.25	-113.69	-109.91	YB88
TS885 32	11.05	106 16.56	4097.4	979102.58	-10.53	-150.28	-146.61	1.28	0.00	-0.08	0.00	-0.08	-151.63	-147.93	TS885
YB106 32	11.39	106 33.04	4486.9	979105.63	28.68	-124.35	-120.34	1.34	0.10	0.42	0.00	0.52	-125.18	-121.14	YB106
D048 32	11.50	106 45.94	3856.9	979109.71	-25.62	-158.17	-154.72	1.23	0.00	-0.04	0.00	-0.04	-159.44	-155.96	D048
YB70 32	11.50	106 26.68	4083.3	979092.41	-22.63	-161.90	-158.25	1.27	0.05	0.13	0.00	0.18	-162.99	-159.31	YB70
BMO21 32	11.60	106 12.00	4076.4	979116.30	0.47	-138.56	-134.92	1.27	0.00	-0.07	0.00	-0.07	-139.91	-136.23	BMO21
YB53 32	11.60	106 19.15	4021.6	979095.16	-25.82	-162.98	-159.39	1.26	0.00	-0.08	0.00	-0.08	-164.33	-160.69	YB53
YB102 32	11.60	106 31.37	4571.8	979095.39	26.13	-129.80	-125.71	1.35	0.20	0.50	0.00	0.70	-130.46	-126.35	YB102
YB89 32	11.71	106 37.95	4243.8	979130.07	29.83	-114.91	-111.12	1.30	0.08	0.24	0.00	0.32	-115.90	-112.08	YB89
T-335 32	11.74	106 25.03	4000.3	979091.27	-31.91	-168.34	-164.77	1.26	0.00	0.06	0.00	0.06	-169.54	-165.93	T-335
D049 32	11.79	106 56.70	4232.9	979077.25	-24.12	-168.49	-164.71	1.30	0.00	-0.09	0.00	-0.09	-169.88	-166.06	D049
U-335 32	12.20	106 24.35	3960.3	979092.65	-34.91	-169.98	-166.44	1.25	0.00	0.04	0.00	0.04	-171.19	-167.62	U-335

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

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STATION	LATITUDE	LONGITUDE	ELEV	DBS	GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TDT	C.B.1	C.B.2	ACC	STA
YB105	32 12.21	106 32.64	4649.9	979093.52	30.78	-127.81	-123.65	1.37	0.20	0.69	0.00	0.89	-128.28	-124.11		YB105
LEON	32 12.42	106 19.47	4033.4	979093.16	-27.83	-165.39	-161.78	1.27	0.00	-0.07	0.00	-0.07	-166.73	-163.08		LEON
YB103	32 12.50	106 31.59	4767.4	979084.41	32.32	-130.28	-126.01	1.38	0.35	0.81	0.00	1.16	-130.49	-126.23		YB103
YB68	32 12.54	106 25.25	4055.4	979092.78	-26.30	-164.62	-160.99	1.27	0.02	0.10	0.00	0.12	-165.77	-162.11		YB68
YB69	32 12.56	106 26.06	4080.7	979093.73	-23.00	-162.18	-158.53	1.27	0.05	0.16	0.00	0.21	-163.24	-159.56		YB69
D050	32 12.57	106 54.16	4216.8	979075.19	-28.76	-172.58	-168.81	1.30	0.00	-0.09	0.00	-0.09	-173.97	-170.16		D050
T8899	32 12.57	106 16.79	4062.0	979103.65	-14.85	-153.39	-149.76	1.27	0.00	-0.09	0.00	-0.09	-154.75	-151.08		T8899
D051	32 12.90	106 43.70	3854.3	979124.80	-13.68	-145.13	-141.69	1.23	0.05	0.02	0.00	0.07	-146.30	-142.82		D051
YB52	32 12.95	106 19.71	4016.4	979093.77	-29.53	-166.52	-162.93	1.26	0.00	-0.07	0.00	-0.07	-167.85	-164.23		YB52
V-335	32 13.09	106 24.02	3940.6	979092.87	-37.75	-172.15	-168.63	1.25	0.00	0.06	0.00	0.06	-173.34	-169.78		V-335
D052	32 13.27	106 50.92	4191.9	979075.69	-31.55	-174.52	-170.77	1.29	0.00	-0.06	0.00	-0.06	-175.87	-172.09		D052
YB67	32 13.33	106 25.25	4029.8	979092.98	-29.58	-167.02	-163.42	1.27	0.02	0.14	0.00	0.16	-168.13	-164.49		YB67
T8891	32 13.34	106 16.87	4083.6	979100.72	-16.80	-156.07	-152.42	1.27	0.00	-0.08	0.00	-0.08	-157.43	-153.74		T8891
YB104	32 13.38	106 31.72	4975.4	979069.09	35.36	-134.33	-129.88	1.41	0.50	1.25	0.00	1.75	-133.99	-129.55		YB104
YB44	32 13.45	106 23.92	3935.7	979092.45	-39.12	-173.35	-169.83	1.28	0.00	0.07	0.00	0.07	-174.53	-170.98		YB44
YB45	32 13.53	106 22.90	3925.2	979092.75	-39.92	-173.79	-170.28	1.25	0.00	0.01	0.00	0.01	-175.02	-171.48		YB45
YB46	32 13.61	106 21.94	3926.8	979093.99	-38.64	-172.57	-169.05	1.25	0.00	-0.02	0.00	-0.02	-173.83	-170.29		YB46
YB47	32 13.69	106 20.92	3956.7	979094.12	-35.80	-170.75	-167.21	1.25	0.00	-0.04	0.00	-0.04	-172.05	-168.48		YB47
YB48	32 13.76	106 20.06	4025.6	979091.36	-32.18	-169.48	-165.88	1.26	0.00	-0.06	0.00	-0.06	-170.80	-167.17		YB48
SAND	32 13.90	106 7.30	4135.8	979114.00	0.63	-140.43	-136.73	1.28	0.00	-0.04	0.00	-0.04	-141.75	-138.02		SAND
W-335	32 14.06	106 23.81	3934.4	979092.13	-40.39	-174.58	-171.06	1.25	0.00	0.09	0.00	0.09	-175.74	-172.19		W-335
T8893	32 14.09	106 16.99	4079.4	979098.75	-20.18	-159.31	-155.67	1.27	0.00	-0.08	0.00	-0.08	-160.66	-156.98		T8893
YB66	32 14.23	106 25.24	4045.3	979093.05	-29.28	-167.25	-163.63	1.27	0.02	0.20	0.00	0.22	-168.30	-164.65		YB66
D053	32 14.29	106 47.15	3871.0	979105.64	-33.16	-165.18	-161.72	1.24	0.00	-0.05	0.00	-0.05	-166.47	-162.97		D053
YB49	32 14.32	106 19.17	4024.3	979093.83	-30.59	-167.85	-164.25	1.26	0.00	-0.07	0.00	-0.07	-169.18	-165.54		YB49
P058	32 14.66	106 23.75	3928.0	979091.69	-42.25	-176.22	-172.71	1.25	0.00	0.11	0.00	0.11	-177.36	-173.82		P058
X-335	32 14.82	106 23.76	3935.7	979091.66	-41.77	-176.01	-172.49	1.25	0.00	0.11	0.00	0.11	-177.14	-173.59		X-335
T8895	32 14.82	106 17.15	4083.0	979096.58	-23.00	-162.26	-158.61	1.27	0.00	-0.07	0.00	-0.07	-163.61	-159.92		T8895
YB50	32 14.83	106 18.39	4049.9	979094.74	-27.97	-166.10	-162.48	1.27	0.00	-0.07	0.00	-0.07	-167.44	-163.78		YB50
D054	32 15.00	106 10.00	4086.9	979108.71	-10.75	-150.14	-146.49	1.28	0.00	-0.07	0.00	-0.07	-151.49	-147.80		D054
YB65	32 15.11	106 25.24	4030.8	979092.84	-32.04	-169.52	-165.92	1.27	0.02	0.25	0.00	0.27	-170.51	-166.88		YB65
I-15	32 15.40	106 28.70	4431.3	979087.30	-0.33	-151.46	-147.50	1.33	0.60	1.33	0.00	1.93	-150.87	-146.92		I-15
GLO 8	32 15.40	106 22.60	3923.7	979093.10	-42.25	-176.07	-172.57	1.25	0.00	0.05	0.00	0.05	-177.27	-173.73		GLO 8
T8897	32 15.55	106 17.24	4075.1	979096.55	-24.77	-163.76	-160.11	1.27	0.00	-0.07	0.00	-0.07	-165.10	-161.42		T8897
YB51	32 15.64	106 18.23	4062.6	979094.81	-27.81	-166.37	-162.73	1.27	0.00	-0.07	0.00	-0.07	-167.71	-164.04		YB51
D055	32 15.70	106 45.45	3873.6	979114.68	-25.79	-157.90	-154.44	1.24	0.10	0.01	0.00	0.11	-159.03	-155.53		D055
Y-335	32 15.75	106 23.87	3942.2	979091.77	-42.32	-176.77	-173.25	1.25	0.00	0.15	0.00	0.15	-177.87	-174.32		Y-335
P057	32 15.96	106 23.92	3945.0	979091.40	-42.71	-177.26	-173.73	1.25	0.00	0.16	0.00	0.16	-178.35	-174.79		P057
YB64	32 16.00	106 25.22	4022.6	979091.27	-35.60	-172.79	-169.20	1.26	0.02	0.30	0.00	0.32	-173.74	-170.11		YB64
RUBY	32 16.10	106 18.21	4081.0	979093.95	-27.56	-166.75	-163.10	1.27	0.00	-0.06	0.00	-0.06	-168.09	-164.40		RUBY
T8899	32 16.29	106 17.38	4068.2	979097.02	-25.95	-164.71	-161.07	1.27	0.00	-0.07	0.00	-0.07	-166.05	-162.38		T8899
BMB10	32 16.30	106 0.90	4340.9	979103.10	5.75	-142.30	-138.42	1.32	0.00	0.04	0.00	0.04	-143.88	-139.66		BMB10
D056	32 16.50	106 45.90	3879.5	979115.00	-26.00	-158.32	-154.85	1.24	0.10	0.01	0.00	0.11	-159.44	-155.95		D056
Z-335	32 16.58	106 23.99	3955.7	979091.57	-42.37	-177.29	-173.78	1.25	0.01	0.18	0.00	0.19	-178.35	-174.79		Z-335
YB63	32 16.75	106 25.22	4026.2	979090.41	-37.14	-174.46	-170.86	1.26	0.02	0.35	0.00	0.37	-175.36	-171.73		YB63
RM2LC	32 16.90	106 44.90	3939.6	979121.40	-14.49	-148.86	-145.34	1.25	0.00	0.05	0.00	0.05	-150.06	-146.51		RM2LC
T8901	32 17.02	106 17.48	4069.9	979097.05	-26.76	-165.57	-161.93	1.27	0.00	-0.07	0.00	-0.07	-166.91	-163.24		T8901
P077	32 17.23	106 18.96	4045.0	979093.77	-32.66	-170.62	-167.01	1.27	0.00	-0.06	0.00	-0.06	-171.95	-168.30		P077
P076	32 17.34	106 20.86	3995.0	979091.94	-39.34	-175.60	-172.03	1.26	0.00	-0.02	0.00	-0.02	-176.87	-173.27		P076
YB62	32 17.40	106 26.04	4091.8	979090.74	-31.52	-171.08	-167.42	1.28	0.05	0.58	0.00	0.63	-171.73	-168.05		YB62

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS	GNV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
P075	32 17.42	106 21.86	4002.0	979089.98	-40.78	-177.28	-173.70	1.26	0.00	0.03	0.00	0.03	-178.51	-174.90		P075
P074	32 17.59	106 23.28	3978.0	979090.58	-42.64	-178.32	-174.76	1.26	0.00	0.13	0.00	0.13	-179.44	-175.85		P074
P073	32 17.61	106 25.22	4015.0	979089.66	-40.11	-177.05	-173.46	1.26	0.01	0.43	0.00	0.44	-177.87	-174.26		P073
A-338	32 17.64	106 23.04	3989.5	979090.18	-42.03	-178.10	-174.53	1.26	0.00	0.11	0.00	0.11	-179.24	-175.65		A-338
YB61	32 17.64	106 25.11	4010.8	979090.31	-39.90	-176.69	-173.10	1.26	0.02	0.41	0.00	0.43	-177.52	-173.91		YB61
P072	32 17.64	106 26.27	4095.0	979091.02	-31.32	-170.99	-167.33	1.28	0.06	0.70	0.00	0.76	-171.51	-167.84		P072
B-338	32 17.68	106 22.12	3994.1	979090.48	-41.35	-177.57	-174.00	1.26	0.00	0.05	0.00	0.05	-178.78	-175.18		B-338
C-338	32 17.69	106 21.20	3972.8	979093.13	-40.72	-176.21	-172.66	1.25	0.00	-0.00	0.00	-0.00	-177.47	-173.89		C-338
D-338	32 17.78	106 20.30	3995.1	979093.52	-38.35	-174.81	-171.04	1.26	0.00	-0.03	0.00	-0.03	-175.90	-172.29		D-338
ELWOD	32 17.80	106 8.50	4097.5	979116.00	-26.27	-146.02	-142.36	1.28	0.00	-0.06	0.00	-0.06	-147.36	-143.66		ELWOD
E-338	32 17.81	106 19.35	4045.0	979092.69	-34.47	-172.46	-168.84	1.27	0.00	-0.05	0.00	-0.05	-173.77	-170.12		E-338
TS903	32 17.82	106 17.62	4066.3	979096.21	-29.02	-167.71	-164.07	1.27	0.00	0.07	0.00	-0.07	-169.05	-165.38		TS903
F-338	32 17.84	106 18.44	4061.3	979094.09	-31.64	-170.16	-166.52	1.27	0.00	-0.06	0.00	-0.06	-171.49	-167.82		F-338
G-338	32 17.86	106 17.60	4056.8	979096.95	-29.23	-167.59	-163.97	1.27	0.00	-0.07	0.00	-0.07	-169.93	-166.27		G-338
P071	32 18.17	106 27.08	4155.0	979093.34	-24.03	-165.74	-162.03	1.29	0.08	1.13	0.00	1.21	-168.82	-162.10		P071
5612P	32 18.30	106 35.60	5611.2	979007.10	26.45	-164.93	-159.91	1.47	1.67	2.52	0.00	4.19	-162.21	-157.26		5612P
MILL	32 18.50	106 27.70	4226.2	979094.90	-16.22	-160.36	-156.59	1.30	0.20	1.70	0.00	1.90	-159.76	-156.00		MILL
D057	32 18.60	106 47.10	3882.8	979115.19	-28.16	-160.59	-157.11	1.24	0.10	0.00	0.00	0.10	-161.72	-158.22		D057
P070	32 18.88	106 29.01	4270.0	979093.92	-13.60	-159.24	-155.42	1.31	0.50	1.71	0.00	2.21	-158.33	-154.54		P070
D058	32 18.97	106 46.74	3899.9	979118.37	-26.07	-157.08	-153.60	1.24	0.10	0.01	0.00	0.11	-158.21	-154.69		D058
P055	32 19.11	106 24.46	3962.0	979091.60	-45.19	-180.32	-176.78	1.25	0.01	0.30	0.00	0.31	-181.27	-177.70		P055
D059	32 19.60	106 47.70	3906.1	979114.30	-28.42	-161.64	-158.15	1.24	0.10	-0.01	0.00	0.09	-162.80	-159.27		D059
P069	32 20.21	106 27.48	4075.0	979104.99	-22.68	-161.66	-158.02	1.27	0.45	1.76	0.00	2.21	-160.72	-157.10		P069
P054	32 20.34	106 25.20	3945.0	979093.77	-46.30	-180.85	-177.32	1.25	0.02	0.46	0.00	0.48	-181.61	-178.06		P054
S126	32 20.60	106 29.28	4320.0	979097.03	-8.13	-155.47	-151.61	1.32	1.00	2.07	0.00	3.07	-153.71	-149.90		S126
BMX86	32 20.60	106 46.60	4000.0	979118.70	-16.55	-152.97	-149.40	1.26	0.10	0.01	0.00	0.11	-154.13	-150.52		BMX86
P053	32 20.74	106 24.00	3921.0	979094.50	-48.37	-182.10	-178.59	1.25	0.01	0.28	0.00	0.29	-183.06	-179.52		P053
P087	32 20.83	106 26.46	4015.0	979094.93	-39.22	-176.16	-172.57	1.26	0.05	0.97	0.00	1.02	-176.40	-172.80		P087
LIM 6	32 20.85	106 26.40	4010.4	979093.60	-41.01	-177.79	-174.21	1.26	0.08	0.94	0.00	1.02	-178.04	-174.44		LIM 6
ST 16	32 21.07	106 24.35	3918.9	979093.20	-50.31	-183.97	-180.47	1.24	0.01	0.32	0.00	0.33	-184.89	-181.36		ST 16
S125	32 21.19	106 27.59	4121.0	979097.32	-27.35	-167.91	-164.22	1.28	0.10	1.45	0.00	1.55	-167.64	-163.96		S125
STA C	32 21.30	106 22.60	4015.4	979090.10	-44.65	-181.61	-178.02	1.26	0.00	0.08	0.00	0.08	-182.78	-179.16		STA C
P052	32 21.35	106 23.58	4016.0	979089.66	-45.10	-182.08	-178.49	1.26	0.00	0.17	0.00	0.17	-183.17	-179.55		P052
C	32 21.35	106 22.58	4015.6	979090.20	-44.60	-181.56	-177.97	1.26	0.00	0.08	0.00	0.08	-182.74	-179.12		C
P068	32 21.62	106 28.71	4234.0	979101.12	-13.52	-157.92	-154.14	1.30	0.12	1.91	0.00	2.03	-157.20	-153.43		P068
S127	32 21.70	106 26.69	4068.0	979092.86	-37.49	-176.24	-172.60	1.27	0.03	0.82	0.00	0.85	-176.66	-173.01		S127
S128	32 22.01	106 26.10	4015.0	979092.96	-42.80	-179.74	-176.15	1.26	0.02	0.58	0.00	0.60	-180.40	-176.79		S128
BMRV4	32 22.40	106 4.90	4183.0	979121.30	0.81	-141.86	-138.12	1.29	0.05	-0.01	0.00	0.04	-143.12	-139.34		BMRV4
S129	32 22.50	106 25.25	3968.0	979093.35	-47.49	-182.83	-179.28	1.25	0.01	0.37	0.00	0.38	-183.70	-180.13		S129
D063	32 22.50	106 5.40	4180.1	979117.41	-34.49	-146.06	-142.32	1.29	0.08	-0.01	0.00	0.07	-147.28	-143.91		D063
D065	32 22.50	106 43.70	4359.8	979094.11	-9.90	-159.59	-154.70	1.32	0.00	0.07	0.00	0.07	-159.84	-156.91		D065
MCGRE	32 22.50	106 0.20	4133.8	979121.90	-3.36	-144.35	-140.65	1.28	0.00	0.08	0.00	0.08	-145.55	-141.82		MCGRE
P051	32 22.53	106 22.58	3985.0	979094.74	-44.55	-180.46	-176.90	1.26	0.00	0.08	0.00	0.08	-181.64	-178.05		P051
ST BX	32 22.53	106 22.37	3979.7	979093.80	-45.99	-181.72	-178.16	1.26	0.00	0.06	0.00	0.06	-182.91	-179.32		ST BX
ST 14	32 22.55	106 26.12	4021.5	979090.80	-45.08	-182.24	-178.65	1.26	0.05	0.52	0.00	0.57	-182.94	-179.33		ST 14
P067	32 22.56	106 28.74	4231.0	979093.53	-22.67	-166.97	-163.19	1.30	0.08	1.37	0.00	1.45	-166.82	-163.04		P067
LODDC	32 22.70	106 28.83	4246.7	979093.30	-21.61	-166.45	-162.66	1.30	0.10	1.31	0.00	1.41	-166.35	-162.55		LODDC
ST 15	32 22.77	106 24.73	3964.1	979092.30	-49.28	-184.48	-180.94	1.25	0.01	0.28	0.00	0.29	-185.44	-181.87		ST 15
S025	32 22.91	106 28.94	4252.0	979091.69	-23.01	-168.03	-164.23	1.30	0.04	1.27	0.00	1.31	-168.03	-164.23		S025
P005	32 22.97	106 28.01	4175.0	979092.03	-29.99	-172.39	-168.65	1.29	0.06	0.91	0.00	0.97	-172.71	-168.97		P005

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
D066	32 23.05	106 50.39	3920.9	979112.96	-33.06	-166.79	-163.28	1.25	0.20	0.06	0.00	0.26	-167.77	-164.24	D066
P006	32 23.18	106 27.00	4094.0	979091.45	-38.47	-178.11	-174.44	1.28	0.04	0.62	0.00	0.66	-178.72	-175.05	P006
S037	32 23.19	106 31.04	4510.0	979083.75	-7.08	-160.90	-156.86	1.34	0.16	1.83	0.00	1.99	-160.26	-156.24	S037
S036	32 23.20	106 29.01	4265.0	979089.92	-23.95	-169.42	-165.61	1.31	0.05	1.15	0.00	1.20	-169.53	-165.71	S036
S117	32 23.26	106 31.21	4530.0	979082.23	-6.81	-161.31	-157.26	1.35	0.18	1.92	0.00	2.00	-160.66	-156.63	S117
S118	32 23.38	106 31.00	4513.0	979081.74	-9.06	-162.99	-158.95	1.35	0.15	1.64	0.00	1.79	-162.54	-158.51	S118
S038	32 23.40	106 31.79	4628.0	979076.74	-3.28	-161.12	-156.99	1.36	0.21	1.99	0.00	2.20	-160.29	-156.17	S038
P007	32 23.42	106 26.00	4012.0	979092.71	-45.25	-182.09	-178.50	1.26	0.03	0.43	0.00	0.46	-182.89	-179.28	P007
S109	32 23.45	106 29.90	4367.0	979086.39	-18.23	-167.18	-163.27	1.32	0.08	1.27	0.00	1.35	-167.15	-163.25	S109
LEE	32 23.50	105 45.60	4865.5	979072.40	14.57	-151.37	-147.02	1.39	0.20	0.34	0.00	0.54	-152.22	-147.85	LEE
S119	32 23.56	106 30.68	4471.0	979083.01	-11.99	-164.48	-160.48	1.34	0.10	1.43	0.00	1.53	-164.28	-160.29	S119
S122	32 23.56	106 28.72	4246.0	979089.68	-26.47	-171.29	-167.49	1.30	0.04	0.95	0.00	0.99	-171.60	-167.80	S122
P004	32 23.63	106 29.24	4290.3	979088.79	-23.29	-169.62	-165.78	1.31	0.10	1.05	0.00	1.15	-169.78	-165.94	P004
P008	32 23.63	106 24.96	3955.0	979095.32	-48.29	-183.18	-179.44	1.25	0.01	0.30	0.00	0.31	-184.12	-180.56	P008
S108	32 23.65	106 30.11	4389.0	979085.51	-17.70	-167.25	-163.33	1.33	0.10	1.25	0.00	1.35	-167.22	-163.30	S108
P039	32 23.68	106 30.79	4509.0	979082.31	-9.65	-163.30	-159.28	1.34	0.15	1.40	0.00	1.55	-163.10	-159.08	P039
S120	32 23.72	106 30.39	4426.0	979084.38	-15.07	-166.02	-162.06	1.33	0.10	1.29	0.00	1.39	-165.96	-162.01	S120
P009	32 23.80	106 23.93	3967.0	979095.47	-47.24	-182.54	-178.99	1.25	0.00	0.17	0.00	0.17	-183.62	-180.05	P009
S110	32 23.88	106 30.65	4484.0	979084.08	-10.13	-163.06	-159.06	1.34	0.10	1.28	0.00	1.38	-163.02	-159.01	S110
P040	32 23.96	106 32.21	4705.0	979070.27	-3.27	-163.74	-159.54	1.37	0.20	1.76	0.00	1.96	-163.16	-158.96	P040
S121	32 23.96	106 30.01	4384.0	979085.95	-17.77	-167.29	-163.37	1.33	0.09	1.12	0.00	1.21	-167.41	-163.49	S121
P015	32 23.98	106 17.84	4053.0	979105.67	-29.20	-167.43	-163.81	1.27	0.00	-0.06	0.00	-0.06	-168.77	-165.11	P015
P010	32 24.00	106 22.95	3977.0	979096.48	-45.56	-181.20	-177.65	1.26	0.00	0.09	0.00	0.09	-182.36	-178.78	P010
GRAND	32 24.00	106 9.20	4353.8	979108.70	2.09	-146.41	-142.51	1.32	0.05	0.07	0.00	0.12	-147.61	-143.89	GRAND
P013	32 24.02	106 19.97	4038.0	979100.79	-35.54	-173.27	-169.65	1.27	0.00	-0.03	0.00	-0.03	-174.86	-170.92	P013
P012	32 24.02	106 20.50	4027.0	979100.30	-37.07	-174.42	-170.81	1.26	0.00	-0.02	0.00	-0.02	-178.70	-172.06	P012
S111	32 24.02	106 31.00	4528.0	979081.74	-8.52	-162.96	-158.91	1.35	0.11	1.32	0.00	1.43	-162.87	-158.83	S111
P014	32 24.03	106 18.91	4039.0	979103.25	-33.00	-170.76	-167.15	1.27	0.00	-0.05	0.00	-0.05	-172.07	-168.43	P014
P016	32 24.03	106 16.90	4041.0	979105.96	-30.11	-167.93	-164.32	1.27	0.00	-0.07	0.00	-0.07	-169.27	-165.62	P016
TS227	32 24.03	106 22.22	3987.0	979098.20	-42.94	-178.92	-175.36	1.26	0.00	0.05	0.00	0.05	-180.13	-176.53	TS227
P011	32 24.05	106 21.69	4000.0	979098.51	-41.44	-177.86	-174.29	1.26	0.00	0.03	0.00	0.03	-179.10	-175.49	P011
P017	32 24.05	106 15.88	4041.0	979105.14	-30.95	-168.78	-165.16	1.27	0.00	-0.07	0.00	-0.07	-170.12	-166.47	P017
TS200	32 24.05	106 25.78	3989.0	979093.30	-47.68	-183.73	-180.17	1.26	0.01	0.39	0.00	0.40	-184.59	-181.00	TS200
P018	32 24.07	106 14.84	4046.0	979106.30	-29.35	-167.34	-163.73	1.27	0.00	-0.07	0.00	-0.07	-168.69	-165.03	P018
P038	32 24.08	106 30.28	4444.0	979084.87	-13.37	-164.94	-160.97	1.33	0.11	1.13	0.00	1.24	-165.04	-161.06	P038
P041	32 24.08	106 24.95	3950.0	979096.14	-48.55	-183.27	-179.74	1.25	0.01	0.29	0.00	0.30	-184.22	-180.67	P041
S116	32 24.09	106 32.99	4970.0	979053.50	4.69	-164.82	-160.37	1.41	1.01	1.40	0.00	2.41	-163.82	-159.40	S116
P003	32 24.10	106 29.04	4263.6	979090.00	-25.23	-170.65	-166.84	1.31	0.10	0.93	0.00	1.03	-170.92	-167.10	P003
S019	32 24.10	106 28.78	4236.0	979090.36	-27.47	-171.94	-168.15	1.30	0.05	0.90	0.00	0.95	-172.30	-168.50	S019
S076	32 24.10	106 25.54	3973.0	979098.14	-47.41	-182.92	-179.37	1.25	0.01	0.36	0.00	0.37	-183.51	-180.23	S076
S077	32 24.10	106 26.21	4015.0	979094.04	-44.56	-181.50	-177.91	1.26	0.01	0.44	0.00	0.45	-182.32	-178.71	S077
S078	32 24.10	106 26.59	4052.0	979093.60	-41.53	-179.73	-176.10	1.27	0.01	0.48	0.00	0.49	-180.50	-176.86	S078
S079	32 24.10	106 27.00	4080.0	979093.01	-39.48	-178.64	-174.99	1.27	0.02	0.55	0.00	0.57	-179.34	-175.68	S079
S080	32 24.10	106 27.30	4100.0	979092.62	-37.99	-177.83	-174.16	1.28	0.02	0.61	0.00	0.63	-178.48	-174.80	S080
S081	32 24.10	106 27.71	4140.0	979091.83	-35.02	-176.22	-172.52	1.28	0.03	0.68	0.00	0.71	-176.80	-173.09	S081
S082	32 24.10	106 28.22	4189.0	979090.76	-31.49	-174.36	-170.61	1.29	0.04	0.77	0.00	0.81	-174.84	-171.08	S082
STA L	32 24.10	106 22.70	3980.3	979097.60	-44.27	-180.02	-176.46	1.26	0.00	0.08	0.00	0.08	-181.20	-177.61	STA L
TARE	32 24.10	106 17.50	4066.8	979105.10	-28.63	-167.34	-163.70	1.27	0.00	-0.06	0.00	-0.06	-168.67	-165.00	TARE
BMB87	32 24.10	106 39.90	4533.9	979067.50	-22.32	-176.95	-172.90	1.35	0.03	0.14	0.00	0.37	-177.93	-173.85	BMB87
E	32 24.12	106 28.63	4227.3	979090.70	-27.97	-172.15	-168.37	1.30	0.05	0.85	0.00	0.90	-172.88	-168.76	E

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TEM (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
P019	32 24.13	106 13.85	4053.0	979109.78	-25.29	-163.53	-159.90	1.27	0.00	-0.08	0.00	-0.08	-164.87	-161.21	P019
P024	32 24.16	106 12.96	4048.0	979112.39	-23.19	-161.26	-157.64	1.27	0.00	-0.07	0.00	-0.07	-162.60	-158.94	P024
S112	32 24.19	106 31.40	4599.0	979077.86	-5.96	-162.82	-158.70	1.36	0.13	1.40	0.00	1.53	-162.65	-158.54	S112
P023	32 24.20	106 11.86	4058.0	979116.74	-17.96	-156.36	-152.73	1.27	0.00	-0.07	0.00	-0.07	-157.70	-154.03	P023
DITT	32 24.20	106 22.88	3987.2	979095.00	-46.35	-182.34	-178.78	1.26	0.00	0.09	0.00	0.09	-183.51	-179.92	DITT
RESN1	32 24.23	106 17.97	4050.0	979104.30	-31.19	-169.32	-165.70	1.27	0.00	-0.06	0.00	-0.06	-170.65	-167.00	RESN1
P022	32 24.25	106 10.84	4083.0	979118.78	-13.64	-152.89	-149.24	1.27	0.00	-0.05	0.00	-0.05	-154.22	-150.53	P022
AL-45	32 24.25	106 18.33	4036.0	979102.90	-33.93	-171.59	-167.98	1.27	0.00	-0.05	0.00	-0.05	-172.91	-169.27	AL-45
NAVY	32 24.25	106 20.52	4026.8	979101.10	-36.60	-173.94	-170.34	1.26	0.00	-0.02	0.00	-0.02	-175.22	-171.59	NAVY
P021	32 24.27	106 9.76	4138.0	979118.05	-9.22	-150.35	-146.65	1.28	0.00	-0.03	0.00	-0.03	-151.67	-147.94	P021
S030	32 24.29	106 29.50	4345.0	979087.72	-20.12	-168.31	-164.43	1.32	0.10	0.94	0.00	1.04	-168.59	-164.69	S030
P020	32 24.32	106 9.12	4196.0	979118.53	-3.36	-146.47	-142.72	1.29	0.05	-0.00	0.00	0.05	-147.71	-143.93	P020
S113	32 24.33	106 31.78	4692.0	979072.91	-2.36	-162.39	-158.19	1.37	0.16	1.47	0.00	1.63	-162.12	-157.93	S113
TARPR	32 24.35	106 13.85	4063.6	979107.80	-26.58	-165.17	-161.54	1.27	0.00	-0.07	0.00	-0.07	-166.52	-162.85	TARPR
ST 18	32 24.35	106 12.17	4060.7	979113.90	-20.75	-159.24	-155.61	1.27	0.00	-0.07	0.00	-0.07	-160.58	-156.92	ST 18
TS207	32 24.38	106 24.00	3958.9	979097.40	-46.86	-181.89	-178.35	1.25	0.00	0.17	0.00	0.17	-182.97	-179.40	TS207
ST 17	32 24.40	106 26.43	4025.4	979092.90	-45.14	-182.43	-178.83	1.26	0.02	0.47	0.00	0.49	-183.21	-179.59	ST 17
SARGE	32 24.40	106 24.40	3958.1	979097.10	-47.26	-182.26	-178.72	1.25	0.00	0.21	0.00	0.21	-183.30	-179.73	SARGE
P002	32 24.41	106 29.07	4293.6	979089.42	-23.41	-169.85	-166.01	1.31	0.15	0.85	0.00	1.00	-170.16	-166.31	P002
S083	32 24.43	106 25.01	3951.0	979096.69	-48.38	-183.14	-179.60	1.25	0.05	0.29	0.00	0.34	-184.04	-180.49	S083
TS 96	32 24.43	106 20.45	4040.2	979098.40	-38.28	-176.08	-172.47	1.27	0.00	-0.02	0.00	-0.02	-177.37	-173.72	TS 96
S031	32 24.46	106 30.11	4453.0	979086.05	-11.87	-163.74	-159.76	1.34	0.12	1.01	0.00	1.13	-163.95	-159.97	S031
S024	32 24.48	106 29.08	4306.0	979089.14	-22.62	-169.49	-165.64	1.31	0.10	0.84	0.00	0.94	-169.86	-166.00	S024
S114	32 24.51	106 32.22	4810.0	979065.66	1.24	-162.81	-158.51	1.39	0.22	1.55	0.00	1.77	-162.43	-158.14	S114
P050	32 24.53	106 22.17	3980.0	979098.95	-43.53	-179.28	-175.72	1.26	0.00	0.05	0.00	0.05	-180.48	-176.89	P050
WESTM	32 24.53	106 16.48	4061.8	979104.90	-29.89	-168.42	-164.79	1.27	0.00	-0.07	0.00	-0.07	-169.77	-166.10	WESTM
S039	32 24.59	106 32.86	4980.0	979054.33	5.78	-164.07	-159.62	1.41	0.97	1.43	0.00	2.40	-163.08	-158.66	S039
S032	32 24.61	106 30.69	4577.0	979081.59	-4.87	-160.98	-156.89	1.35	0.15	1.09	0.00	1.24	-161.10	-157.00	S032
S097	32 24.61	106 22.99	3964.0	979098.26	-45.84	-181.03	-177.49	1.25	0.00	0.10	0.00	0.10	-182.19	-178.61	S097
S023	32 24.65	106 28.74	4285.0	979089.87	-24.10	-170.25	-166.41	1.31	0.10	0.77	0.00	0.87	-170.68	-166.84	S023
S084	32 24.68	106 24.60	3953.0	979097.18	-48.04	-182.87	-179.33	1.25	0.05	0.24	0.00	0.29	-183.83	-180.27	S084
P001	32 24.79	106 29.10	4353.6	979088.07	-19.64	-168.13	-164.23	1.32	0.20	0.79	0.00	0.99	-168.45	-164.55	P001
S033	32 24.82	106 31.47	4738.0	979073.50	1.89	-159.71	-155.47	1.38	0.21	1.23	0.00	1.44	-159.65	-155.41	S033
S092	32 24.89	106 20.00	4033.0	979101.39	-36.60	-174.15	-170.55	1.27	0.00	-0.03	0.00	-0.03	-175.45	-171.81	S092
S115	32 24.92	106 33.23	5180.0	979042.23	12.03	-164.64	-160.01	1.43	1.01	1.43	0.00	2.44	-163.62	-159.02	S115
P042	32 24.93	106 25.37	3950.0	979097.79	-48.06	-182.78	-179.25	1.25	0.00	0.34	0.00	0.34	-183.69	-180.13	P042
TS397	32 24.93	106 16.67	4038.0	979107.50	-30.07	-167.80	-164.19	1.27	0.00	-0.07	0.00	-0.07	-169.14	-165.49	TS397
PROFD	32 24.93	106 17.75	4040.6	979105.50	-31.83	-169.64	-166.03	1.27	0.00	-0.06	0.00	-0.06	-170.97	-167.32	PROFD
TRAV1	32 24.97	106 28.75	4319.8	979090.14	-20.99	-168.33	-164.47	1.32	0.14	0.76	0.00	0.90	-168.75	-164.87	TRAV1
S123	32 24.98	106 28.72	4313.0	979090.12	-21.67	-168.77	-164.91	1.31	0.25	0.75	0.00	1.00	-169.08	-165.21	S123
S034	32 24.99	106 32.08	4896.0	979062.03	5.04	-161.95	-157.57	1.40	0.30	1.29	0.00	1.59	-161.75	-157.38	S034
D067	32 25.00	106 52.00	3946.8	979127.01	-19.23	-153.85	-150.32	1.25	0.20	0.20	0.00	0.40	-154.69	-151.14	D067
S098	32 25.15	106 23.01	3957.0	979099.04	-46.45	-181.41	-177.87	1.25	0.00	0.10	0.00	0.10	-182.56	-178.99	S098
S085	32 25.18	106 23.80	3944.0	979098.89	-47.86	-182.38	-178.85	1.25	0.00	0.16	0.00	0.16	-183.46	-179.91	S085
S022	32 25.20	106 27.80	4150.0	979095.22	-32.19	-173.73	-170.02	1.29	0.10	0.72	0.00	0.82	-174.20	-170.48	S022
S035	32 25.25	106 32.70	5122.0	979048.84	12.74	-161.95	-157.37	1.42	0.45	1.48	0.00	1.93	-161.45	-156.88	S035
PASS	32 25.30	106 33.00	5397.8	979030.60	20.36	-163.74	-158.91	1.48	0.70	1.60	0.00	2.30	-162.90	-158.09	PASS
P049	32 25.34	106 21.53	3979.0	979101.08	-42.60	-178.31	-174.75	1.26	0.00	0.02	0.00	0.02	-179.54	-175.95	P049
S040	32 25.46	106 33.22	5385.0	979031.39	19.73	-163.94	-159.12	1.45	1.00	1.58	0.00	2.58	-162.81	-158.02	S040
S135	32 25.50	106 34.01	5714.0	979013.50	32.71	-162.17	-157.07	1.48	2.56	1.96	0.00	4.52	-159.13	-154.10	S135

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
S021	32 25.52	106 27.24	4092.0	979096.88	-36.42	-175.99	-172.33	1.28	0.08	0.63	0.00	0.71	-176.55	-172.88	S021
S124	32 25.71	106 28.29	4257.0	979097.32	-20.73	-165.92	-162.11	1.30	0.30	0.74	0.00	1.04	-168.19	-162.37	S124
P043	32 25.77	106 25.56	3948.0	979100.11	-47.07	-181.72	-178.19	1.25	0.01	0.40	0.00	0.41	-182.57	-179.01	P043
RUSH	32 25.80	106 22.92	3966.5	979098.20	-47.28	-182.57	-179.02	1.25	0.00	0.10	0.00	0.10	-183.72	-180.14	RUSH
S020	32 25.85	106 26.69	4030.0	979099.28	-40.30	-177.75	-174.15	1.27	0.04	0.58	0.00	0.62	-178.40	-174.78	S020
S073	32 25.85	106 24.62	3933.0	979100.31	-48.39	-182.53	-179.01	1.25	0.01	0.27	0.00	0.28	-183.49	-179.95	S073
S074	32 25.85	106 25.13	3936.0	979099.87	-48.55	-182.59	-179.27	1.25	0.01	0.34	0.00	0.35	-183.69	-180.15	S074
S075	32 25.85	106 26.09	3965.0	979100.27	-45.42	-180.65	-177.11	1.25	0.02	0.49	0.00	0.51	-181.40	-177.84	S075
S086	32 25.85	106 24.22	3942.0	979099.82	-48.03	-182.48	-178.96	1.25	0.00	0.22	0.00	0.22	-183.51	-179.95	S086
S087	32 25.86	106 22.58	3961.0	979100.41	-45.67	-180.77	-177.23	1.25	0.00	0.08	0.00	0.08	-181.94	-178.37	S087
S088	32 25.86	106 22.08	3973.0	979100.46	-44.49	-180.00	-176.45	1.25	0.00	0.05	0.00	0.05	-181.20	-177.62	S088
S071	32 25.86	106 23.23	3944.0	979100.46	-47.22	-181.73	-178.21	1.25	0.00	0.13	0.00	0.13	-182.86	-179.30	S071
S072	32 25.86	106 23.60	3943.0	979100.14	-47.63	-182.12	-178.59	1.25	0.00	0.16	0.00	0.16	-183.20	-179.65	S072
S089	32 25.87	106 21.52	3974.0	979101.83	-43.04	-178.58	-175.03	1.25	0.00	0.03	0.00	0.03	-179.81	-176.22	S089
S091	32 25.87	106 20.51	4000.0	979103.26	-39.17	-175.59	-172.02	1.26	0.00	-0.01	0.00	-0.01	-176.86	-173.25	S091
S093	32 25.87	106 20.00	4013.0	979102.67	-38.54	-175.61	-171.82	1.26	0.00	-0.02	0.00	-0.02	-176.69	-173.07	S093
S094	32 25.87	106 19.50	4024.0	979102.77	-37.40	-174.65	-171.05	1.26	0.00	-0.04	0.00	-0.04	-175.95	-172.31	S094
S090	32 25.88	106 21.12	3985.0	979103.06	-40.79	-176.71	-173.14	1.26	0.00	0.01	0.00	0.01	-177.95	-174.36	S090
S095	32 25.88	106 18.99	4025.0	979103.40	-36.69	-173.97	-170.37	1.26	0.00	-0.04	0.00	-0.04	-175.28	-171.64	S095
S096	32 25.89	106 18.47	4020.0	979103.75	-36.82	-173.93	-170.34	1.26	0.00	-0.05	0.00	-0.05	-175.25	-171.62	S096
CLOWR	32 25.97	106 28.18	4262.8	979094.70	-21.28	-167.35	-163.52	1.31	0.40	0.72	0.00	1.12	-167.53	-163.70	CLOWR
P048	32 26.02	106 20.86	3978.0	979103.20	-41.50	-177.18	-173.62	1.26	0.00	0.00	0.00	0.00	-178.43	-174.84	P048
T5472	32 26.07	106 20.33	4006.4	979101.20	-40.90	-177.54	-173.96	1.26	0.00	-0.01	0.00	-0.01	-178.82	-175.20	T5472
S134	32 26.19	106 32.82	5280.0	979040.02	17.49	-162.59	-157.87	1.44	0.57	1.31	0.00	1.90	-162.13	-157.42	S134
BMG87	32 26.20	106 31.10	4905.6	979066.10	8.36	-158.98	-154.56	1.40	0.96	1.09	0.00	2.05	-158.30	-153.93	BMG87
S133	32 26.21	106 31.67	5083.0	979055.76	14.69	-158.68	-154.13	1.42	0.65	1.13	0.00	1.78	-158.32	-153.78	S133
S132	32 26.22	106 31.02	4906.0	979065.85	8.12	-159.20	-154.82	1.40	1.00	1.08	0.00	2.08	-158.52	-154.15	S132
ST 22	32 26.22	106 18.43	4022.4	979102.50	-38.30	-175.49	-171.89	1.26	0.00	-0.05	0.00	-0.05	-176.81	-173.17	ST 22
ST 21	32 26.22	106 26.45	4005.3	979099.20	-43.21	-179.81	-176.23	1.26	0.04	0.57	0.00	0.61	-180.46	-176.87	ST 21
ST 20	32 26.23	106 24.52	3942.0	979099.20	-49.17	-183.62	-180.09	1.25	0.04	0.27	0.00	0.31	-184.56	-181.01	ST 20
P037	32 26.25	106 30.13	4730.0	979076.85	2.54	-158.79	-154.56	1.38	0.35	0.97	0.00	1.32	-158.85	-154.62	P037
S131	32 26.25	106 29.98	4699.0	979079.19	1.96	-158.30	-154.10	1.37	0.85	0.94	0.00	1.79	-157.89	-153.70	S131
T5328	32 26.25	106 16.88	4016.0	979105.00	-36.44	-173.41	-169.82	1.26	0.00	-0.07	0.00	-0.07	-174.74	-171.12	T5328
NASAA	32 26.28	106 22.87	3946.2	979110.40	-37.64	-172.24	-168.71	1.25	0.00	0.11	0.00	0.11	-173.38	-169.82	NASAA
S130	32 26.29	106 29.11	4501.0	979090.51	-5.39	-158.90	-154.88	1.34	0.75	0.86	0.00	1.61	-158.64	-154.62	S130
P036	32 26.33	106 28.13	4280.0	979096.77	-19.96	-168.94	-162.11	1.31	0.30	0.79	0.00	1.09	-166.15	-162.32	P036
S099	32 26.39	106 23.10	3940.0	979101.78	-47.00	-181.38	-177.85	1.25	0.00	0.13	0.00	0.13	-182.49	-178.94	S099
J 95	32 26.48	106 22.48	3947.1	979101.10	-47.13	-181.75	-178.23	1.25	0.00	0.09	0.00	0.09	-182.92	-179.36	J 95
P044	32 26.59	106 25.55	3942.0	979102.14	-46.72	-181.17	-177.65	1.25	0.01	0.46	0.00	0.47	-181.95	-178.40	P044
S107	32 26.73	106 21.90	3954.0	979103.35	-44.57	-179.43	-175.90	1.28	0.00	0.06	0.00	0.06	-180.63	-177.06	S107
P047	32 26.74	106 20.22	3998.0	979103.64	-40.16	-176.52	-172.94	1.26	0.00	-0.01	0.00	-0.01	-177.79	-174.18	P047
S100	32 26.97	106 23.16	3926.0	979104.19	-46.69	-180.60	-177.09	1.25	0.00	0.16	0.00	0.16	-181.69	-178.15	S100
P035	32 27.03	106 26.03	4046.0	979100.21	-39.47	-177.47	-173.85	1.27	0.09	0.51	0.00	0.60	-178.13	-174.50	P035
S027	32 27.03	106 29.75	4800.0	979073.94	5.14	-158.57	-154.27	1.39	1.00	1.03	0.00	2.03	-157.92	-153.65	S027
S026	32 27.11	106 28.97	4605.0	979086.20	-1.04	-158.70	-153.98	1.36	0.42	0.94	0.00	1.36	-158.10	-153.98	S026
D068	32 27.40	106 53.00	3962.9	979132.40	-15.60	-150.76	-147.22	1.25	0.20	0.26	0.00	0.46	-151.55	-147.99	D068
P046	32 27.41	106 19.57	4002.0	979105.04	-39.30	-175.79	-172.22	1.26	0.00	-0.02	0.00	-0.02	-177.08	-173.46	P046
S041	32 27.41	106 30.50	5149.0	979052.52	16.01	-159.60	-155.00	1.43	2.63	1.27	0.00	3.90	-157.13	-152.59	S041
W 8	32 27.50	106 25.41	3955.0	979103.01	-45.87	-180.76	-177.23	1.25	0.01	0.52	0.00	0.53	-181.49	-177.93	W 8
S056	32 27.51	106 28.21	4475.0	979092.37	-7.64	-160.26	-156.26	1.34	-0.25	0.96	0.00	1.21	-160.40	-156.39	S056

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
S057	32 27.51	106 27.71	4321.0	979094.63	-19.85	-167.23	-163.36	1.32	0.20	0.89	0.00	1.09	-167.46	-163.59	S057
S029	32 27.54	106 29.46	4775.0	979076.44	4.54	-158.32	-154.05	1.38	0.40	1.08	0.00	1.48	-158.22	-153.95	S029
S067	32 27.58	106 26.80	4123.0	979099.68	-33.51	-174.14	-170.45	1.28	0.12	0.79	0.00	0.91	-174.51	-170.81	S067
S068	32 27.58	106 27.59	4288.0	979095.61	-22.07	-168.32	-164.49	1.31	0.19	0.89	0.00	1.08	-168.55	-164.71	S068
S069	32 27.58	106 27.83	4350.0	979095.07	-18.78	-165.15	-161.26	1.32	0.20	0.93	0.00	1.13	-165.33	-161.44	S069
S058	32 27.59	106 26.18	4037.0	979100.76	-40.53	-178.22	-174.51	1.27	0.10	0.67	0.00	0.77	-178.72	-175.10	S058
S070	32 27.59	106 27.98	4404.0	979094.33	-12.46	-162.66	-158.73	1.33	0.21	0.92	0.00	1.13	-162.86	-158.92	S070
S101	32 27.60	106 23.20	3936.0	979103.99	-46.81	-181.06	-177.54	1.25	0.00	0.18	0.00	0.18	-182.13	-178.58	S101
AB 11	32 27.60	106 16.38	3990.9	979107.30	-38.34	-174.46	-170.89	1.26	0.00	-0.07	0.00	-0.07	-175.78	-172.18	AB 11
QBQE	32 27.60	106 17.30	3995.5	979107.30	-37.91	-174.18	-170.61	1.26	0.00	-0.06	0.00	-0.06	-175.50	-171.90	QBQE
NAN	32 27.60	106 28.00	4405.0	979094.80	-11.91	-162.15	-158.21	1.33	0.24	0.93	0.00	1.17	-162.30	-158.36	NAN
TS 56	32 27.67	106 20.87	3964.4	979104.50	-43.73	-178.94	-175.40	1.25	0.00	0.02	0.00	0.02	-180.18	-176.60	TS 56
S106	32 27.70	106 21.50	3948.0	979105.95	-43.86	-178.51	-174.98	1.25	0.00	0.05	0.00	0.05	-179.71	-176.15	S106
S028	32 27.71	106 28.91	4735.0	979078.55	2.72	-158.78	-154.55	1.38	0.33	1.07	0.00	1.40	-158.76	-154.53	S028
S044	32 27.85	106 31.31	5405.0	979038.40	25.36	-158.99	-154.15	1.45	1.00	1.48	0.00	2.48	-157.96	-153.15	S044
S042	32 27.87	106 29.89	4920.0	979069.04	10.38	-157.43	-153.03	1.40	0.40	1.23	0.00	1.63	-157.19	-152.80	S042
TS482	32 27.92	106 24.47	3944.2	979102.20	-48.27	-182.79	-179.27	1.25	0.01	0.37	0.00	0.38	-183.67	-180.12	TS482
TS383	32 27.93	106 14.58	3999.1	979114.60	-30.72	-167.12	-163.54	1.26	0.00	-0.07	0.00	-0.07	-168.45	-164.84	TS383
J 101	32 27.98	106 22.38	3942.2	979104.10	-46.64	-181.09	-177.57	1.25	0.00	0.12	0.00	0.12	-182.23	-178.67	J 101
P045	32 28.13	106 18.91	4002.0	979106.44	-38.88	-175.37	-171.80	1.26	0.00	-0.04	0.00	-0.04	-176.67	-173.06	P045
4F918	32 28.13	106 18.92	4008.4	979104.60	-40.12	-176.83	-173.25	1.26	0.00	-0.04	0.00	-0.04	-178.13	-174.51	4F918
S043	32 28.24	106 30.49	5109.0	979056.59	15.19	-159.06	-154.49	1.42	1.30	1.40	0.00	2.70	-157.78	-153.25	S043
S054	32 28.25	106 28.60	4627.0	979085.41	-1.31	-159.13	-154.99	1.36	0.45	1.25	0.00	1.70	-158.79	-154.66	S054
S059	32 28.29	106 26.16	4072.0	979101.69	-37.27	-176.15	-172.51	1.27	0.10	0.80	0.00	0.90	-176.53	-172.88	S059
SAUL	32 28.33	106 19.35	4021.7	979103.80	-39.94	-177.11	-173.51	1.26	0.00	-0.03	0.00	-0.03	-178.40	-174.77	SAUL
S046	32 28.50	106 29.65	4958.0	979066.44	10.49	-158.61	-154.17	1.41	0.55	1.31	0.00	1.86	-158.16	-153.74	S046
S102	32 28.55	106 23.27	3943.0	979105.95	-45.49	-179.97	-176.45	1.25	0.00	0.23	0.00	0.23	-181.00	-177.44	S102
S045	32 28.69	106 30.84	5335.0	979045.61	24.84	-157.11	-152.34	1.45	0.55	1.58	0.00	2.13	-156.43	-151.68	S045
JORNA	32 28.70	106 44.20	4310.0	979097.00	-20.14	-167.14	-163.29	1.31	0.00	0.02	0.00	0.02	-168.43	-164.84	JORNA
S055	32 28.72	106 28.68	4698.0	979082.62	1.93	-158.30	-154.10	1.37	0.80	1.36	0.00	2.16	-157.51	-153.33	S055
S062	32 28.72	106 26.80	4197.0	979101.74	-26.05	-169.20	-165.44	1.29	0.16	1.14	0.00	1.30	-169.20	-165.44	S062
S047	32 28.78	106 29.27	4873.0	979072.91	8.59	-157.61	-153.25	1.40	0.75	1.42	0.00	2.17	-156.83	-152.50	S047
S066	32 28.87	106 27.30	4327.0	979098.26	-17.51	-165.09	-161.22	1.32	0.28	1.26	0.00	1.54	-164.87	-161.01	S066
REFER	32 28.87	106 25.15	3978.5	979106.90	-41.64	-177.33	-173.78	1.26	0.02	0.64	0.00	0.66	-177.93	-174.35	REFER
S065	32 28.88	106 27.58	4386.0	979096.98	-13.26	-162.85	-158.93	1.33	0.35	1.36	0.00	1.71	-162.47	-158.55	S065
S063	32 28.89	106 27.73	4443.0	979095.95	-8.95	-160.48	-156.51	1.33	0.40	1.40	0.00	1.80	-160.02	-156.06	S063
S060	32 28.90	106 26.08	4095.0	979103.75	-33.88	-173.54	-169.88	1.28	0.10	0.91	0.00	1.01	-173.81	-170.14	S060
S105	32 28.90	106 21.33	3949.0	979109.38	-41.98	-176.66	-173.13	1.25	0.00	0.06	0.00	0.06	-177.85	-174.29	S105
U069	32 28.90	106 3.00	4094.1	979126.71	-11.00	-150.64	-146.98	1.28	0.00	0.06	0.00	0.06	-151.85	-148.16	U069
S064	32 28.91	106 27.87	4487.0	979094.53	-6.26	-159.29	-155.28	1.34	0.55	1.46	0.00	2.01	-158.62	-154.62	S064
P033	32 28.93	106 24.79	3957.0	979107.17	-43.47	-178.43	-174.89	1.25	0.02	0.56	0.00	0.58	-179.10	-175.55	P033
S050	32 28.98	106 30.06	5156.0	979055.90	17.91	-157.94	-153.33	1.43	0.80	1.52	0.00	2.32	-157.05	-152.46	S050
S061	32 29.01	106 26.52	4170.0	979103.79	-26.94	-169.16	-165.43	1.29	0.18	1.15	0.00	1.33	-169.12	-165.39	S061
SANDS	32 29.03	106 24.10	3949.1	979108.00	-43.52	-178.21	-174.68	1.25	0.01	0.39	0.00	0.40	-179.06	-175.51	SANDS
P092	32 29.04	106 24.10	3949.0	979107.46	-44.09	-178.77	-175.24	1.25	0.01	0.40	0.00	0.41	-179.62	-176.06	P092
S053	32 29.18	106 30.59	5353.0	979046.15	26.41	-156.17	-151.38	1.45	0.75	1.59	0.00	2.34	-155.27	-150.51	S053
S104	32 29.18	106 22.68	3946.0	979109.19	-42.83	-177.41	-173.88	1.25	0.00	0.19	0.00	0.19	-178.48	-174.92	S104
PINON	32 29.20	105 45.60	5094.2	979063.80	19.70	-154.05	-149.49	1.42	0.30	0.79	0.00	1.09	-154.38	-149.81	PINON
S103	32 29.31	106 23.31	3949.0	979108.94	-42.97	-177.66	-174.13	1.25	0.00	0.27	0.00	0.27	-178.64	-175.08	S103
S049	32 29.41	106 29.04	4880.0	979076.00	11.48	-154.96	-150.60	1.40	1.95	1.36	0.00	3.31	-153.05	-148.73	S049

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SUMMARY OF THE GRAVITY STATIONS FOR TULAMOSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
NO117	32 29.43	106 16.07	3977.0	979111.70	-37.75	-173.39	-169.83	1.26	0.00	-0.07	0.00	-0.07	-174.71	-171.12	NO117
PRY	32 29.48	106 24.17	3963.9	979107.50	-43.25	-178.44	-174.90	1.25	0.01	0.44	0.00	0.45	-179.24	-175.67	PRY
J 488	32 29.48	106 22.53	3945.1	979109.20	-43.31	-177.87	-174.34	1.25	0.00	0.18	0.00	0.18	-178.94	-175.38	J 488
S048	32 29.50	106 28.21	4630.0	979089.68	1.53	-156.38	-152.24	1.36	1.80	1.45	0.00	3.25	-154.49	-150.40	S048
S051	32 29.50	106 30.91	5542.0	979034.87	32.46	-156.56	-151.61	1.47	0.90	1.61	0.00	2.51	-155.52	-150.59	S051
PARKE	32 29.60	106 23.20	3966.0	979109.60	-41.11	-176.38	-172.83	1.25	0.00	0.26	0.00	0.26	-177.37	-173.80	PARKE
ST 29	32 29.62	106 18.00	3997.0	979108.20	-39.62	-175.95	-172.37	1.26	0.00	-0.05	0.00	-0.05	-177.26	-173.65	ST 29
J 524	32 29.68	106 20.40	3971.1	979110.00	-40.34	-175.78	-172.23	1.25	0.00	0.02	0.00	0.02	-177.01	-173.43	J 524
P032	32 29.78	106 24.42	3971.0	979110.22	-40.27	-175.70	-172.18	1.25	0.01	0.55	0.00	0.56	-176.40	-172.83	P032
TS470	32 29.85	106 26.00	4078.8	979109.40	-31.05	-170.16	-166.81	1.27	0.19	1.40	0.00	1.59	-169.84	-166.20	TS470
D070	32 29.90	106 56.52	3984.8	979132.80	-16.55	-152.46	-148.90	1.26	0.20	0.05	0.00	0.25	-153.47	-149.88	D070
GLO 7	32 30.10	105 50.70	4576.3	979094.20	0.19	-155.90	-151.80	1.35	0.15	0.67	0.00	0.82	-156.43	-152.32	GLO 7
GLO 6	32 30.10	105 53.80	4282.7	979112.80	-8.82	-154.89	-151.06	1.31	0.10	0.49	0.00	0.59	-155.61	-151.76	GLO 6
D071	32 30.10	106 55.60	3968.8	979135.60	-15.53	-150.89	-147.34	1.25	0.20	0.06	0.00	0.26	-151.88	-148.31	D071
D072	32 30.50	106 58.30	4003.9	979126.11	-22.27	-158.83	-155.24	1.26	0.20	-0.03	0.00	0.17	-159.92	-156.31	D072
P093	32 30.56	106 22.90	3954.0	979114.33	-38.82	-173.68	-170.14	1.25	0.00	0.26	0.00	0.26	-174.67	-171.10	P093
P031	32 30.63	106 24.26	3984.0	979113.75	-36.68	-172.56	-168.99	1.26	0.01	0.58	0.00	0.59	-173.22	-169.64	P031
MK 4	32 30.78	106 20.05	3979.8	979113.00	-38.02	-173.76	-170.20	1.26	0.00	0.02	0.00	0.02	-175.00	-171.41	MK 4
TS144	32 30.98	106 24.20	3986.6	979114.30	-36.36	-172.33	-168.76	1.26	0.02	0.59	0.00	0.61	-172.98	-169.39	TS144
PR 58	32 31.17	106 22.65	3965.8	979115.00	-37.87	-173.13	-169.59	1.25	0.00	0.23	0.00	0.23	-174.16	-170.58	PR 58
ST 33	32 31.33	106 14.40	3986.6	979117.30	-33.84	-169.81	-166.24	1.26	0.00	-0.07	0.00	-0.07	-171.13	-167.53	ST 33
FDX	32 31.40	106 26.40	4356.5	979112.80	-3.47	-152.12	-148.22	1.32	1.20	1.53	0.00	2.73	-150.71	-146.85	FDX
P088	32 31.43	106 26.50	4377.0	979112.44	-2.13	-151.41	-147.50	1.32	1.20	1.35	0.00	2.55	-150.19	-146.30	P088
RE 9	32 31.43	106 20.22	3970.0	979115.60	-37.23	-172.64	-169.09	1.25	0.00	0.03	0.00	0.03	-173.86	-170.28	RE 9
GEORG	32 31.50	106 15.70	3988.6	979114.50	-36.68	-172.72	-169.15	1.26	0.00	-0.06	0.00	-0.06	-174.04	-170.44	GEORG
D073	32 31.70	106 58.90	3983.9	979130.60	-21.30	-157.17	-153.61	1.26	0.20	-0.04	0.00	0.16	-158.27	-154.68	D073
TS114	32 31.77	106 18.48	3984.3	979114.30	-37.65	-173.54	-169.98	1.26	0.00	-0.01	0.00	-0.01	-174.81	-171.22	TS114
TURQ	32 31.90	106 1.60	4034.2	979133.00	-14.44	-152.03	-148.42	1.27	0.00	0.14	0.00	0.14	-153.16	-149.52	TURQ
WIN 2	32 32.00	106 44.60	4310.2	979089.20	-32.43	-179.43	-175.58	1.31	0.00	-0.04	0.00	-0.04	-180.78	-176.89	WIN 2
P030	32 32.26	106 24.10	3974.0	979121.19	-32.40	-167.94	-164.39	1.25	0.01	0.63	0.00	0.64	-168.55	-164.98	P030
4F961	32 32.40	106 35.40	5542.2	979041.90	35.27	-153.75	-148.80	1.47	0.62	1.50	0.00	2.12	-153.09	-148.15	4F961
UPDOC	32 32.97	106 19.92	3982.6	979118.00	-35.75	-171.59	-168.02	1.26	0.00	0.02	0.00	0.02	-172.82	-169.23	UPDOC
WHITE	32 33.07	106 25.65	4040.7	979124.40	-24.03	-161.84	-158.23	1.27	0.30	1.85	0.00	2.15	-160.96	-157.37	WHITE
U-242	32 33.15	106 24.12	3948.4	979124.70	-32.51	-167.18	-163.65	1.25	0.01	0.68	0.00	0.69	-167.74	-164.19	U-242
TS 90	32 33.15	106 16.00	3980.8	979117.60	-36.57	-172.34	-168.78	1.26	0.00	-0.06	0.00	-0.06	-173.65	-170.06	TS 90
TS-7	32 33.42	106 22.42	3939.4	979124.80	-33.63	-167.99	-164.46	1.25	0.00	0.23	0.00	0.23	-169.00	-165.45	TS-7
LU 5	32 33.43	106 16.70	3998.3	979117.00	-35.90	-172.27	-168.70	1.26	0.00	-0.02	0.00	-0.02	-173.55	-169.94	LU 5
P029	32 33.97	106 24.03	3935.0	979129.32	-30.27	-164.48	-160.96	1.25	0.01	0.64	0.00	0.65	-165.08	-161.55	P029
P094	32 34.24	106 20.00	3988.0	979121.53	-33.45	-169.47	-165.90	1.26	0.00	0.02	0.00	0.02	-170.71	-167.11	P094
TS248	32 34.40	106 16.10	3973.6	979120.80	-35.75	-171.28	-167.72	1.25	0.00	-0.06	0.00	-0.06	-172.59	-169.00	TS248
WIN 3	32 34.50	106 40.30	4414.6	979096.70	-18.53	-169.09	-165.15	1.33	0.03	0.13	0.00	0.16	-170.26	-166.29	WIN 3
SK 25	32 34.57	106 20.60	3991.9	979121.20	-33.86	-170.01	-166.44	1.26	0.00	0.05	0.00	0.05	-171.22	-167.62	SK 25
TS 36	32 34.88	106 12.33	3981.6	979127.70	-28.75	-164.55	-160.99	1.26	0.00	-0.04	0.00	-0.04	-165.85	-162.26	TS 36
D074	32 35.00	106 59.80	3997.3	979128.70	-26.44	-162.78	-159.20	1.26	0.20	-0.05	0.00	0.15	-163.88	-160.28	D074
J 351	32 35.02	106 22.45	3929.6	979130.00	-31.54	-165.56	-162.05	1.25	0.00	0.21	0.00	0.21	-166.59	-163.05	J 351
ZEBRA	32 35.03	106 26.57	4477.2	979119.20	9.13	-143.57	-139.56	1.34	1.42	1.37	0.00	2.79	-142.11	-138.15	ZEBRA
TS543	32 35.05	106 22.32	3952.3	979128.40	-31.04	-164.57	-162.31	1.25	0.00	0.19	0.00	0.19	-166.91	-163.34	TS543
SAUND	32 35.22	106 24.13	3951.4	979131.20	-28.56	-163.33	-159.79	1.25	0.00	0.57	0.00	0.57	-164.01	-160.46	SAUND
BMA22	32 35.30	106 0.80	4031.7	979130.80	-21.52	-159.03	-155.42	1.27	0.00	0.28	0.00	0.28	-160.02	-156.39	BMA22
P091	32 35.40	106 24.74	3959.0	979135.27	-24.02	-159.05	-155.51	1.25	0.02	0.81	0.00	0.83	-159.47	-155.92	P091

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

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STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TUT	C.B.1	C.B.2	ACC	STA
P089	32 35.47	106 26.48	4282.0	979131.35	2.33	-143.71	-139.88	1.31	1.00	1.20	0.00	2.20	-142.82	-139.01	P089
D075	32 35.50	106 24.80	4067.9	979132.92	-16.27	-155.01	-151.37	1.27	0.02	0.62	0.00	0.64	-155.64	-151.99	D075
DONA	32 35.60	106 18.90	3990.7	979123.50	-33.08	-169.19	-165.62	1.26	0.00	-0.02	0.00	-0.02	-170.47	-166.87	DONA
P028	32 35.67	106 23.94	3937.0	979134.98	-26.75	-161.03	-157.51	1.25	0.02	0.48	0.00	0.50	-161.78	-158.24	P028
D076	32 36.20	106 0.50	4037.0	979125.71	-27.34	-165.03	-161.42	1.27	0.00	0.33	0.00	0.33	-165.97	-162.33	D076
D077	32 36.20	106 18.80	4004.9	979123.11	-32.96	-169.55	-165.97	1.26	0.00	-0.03	0.00	-0.03	-170.84	-167.22	D077
ARMY2	32 36.30	106 26.10	4356.7	979125.50	2.37	-146.22	-142.33	1.32	0.30	0.90	0.00	1.20	-146.34	-142.45	ARMY2
HF873	32 36.30	106 5.40	4002.2	979136.60	-19.86	-156.36	-152.78	1.26	0.00	0.10	0.00	0.10	-157.52	-153.91	HF873
WIN 4	32 36.30	106 50.80	4316.8	979089.10	-37.78	-185.01	-181.15	1.31	0.00	-0.13	0.00	-0.13	-186.46	-182.56	WIN 4
TS598	32 36.53	106 20.33	3966.2	979126.50	-33.66	-168.93	-165.39	1.25	0.00	0.01	0.00	0.01	-170.17	-166.59	TS598
NIKEE	32 36.58	106 24.30	3961.7	979136.40	-24.25	-159.37	-155.83	1.25	0.05	0.45	0.00	0.50	-160.12	-156.56	NIKEE
J 30	32 36.63	106 22.37	3937.4	979132.40	-30.60	-164.89	-161.37	1.25	0.00	0.15	0.00	0.15	-165.99	-162.44	J 30
LKWTW	32 36.63	106 23.77	3956.6	979135.00	-26.20	-163.14	-161.61	1.25	0.00	0.34	0.00	0.34	-162.05	-158.49	LKWTW
TS165	32 36.65	106 21.95	3947.1	979129.40	-30.84	-166.14	-162.59	1.25	0.00	0.10	0.00	0.10	-167.29	-163.71	TS165
A-16	32 36.77	106 18.08	3975.0	979126.65	-33.01	-168.58	-165.03	1.26	0.00	-0.05	0.00	-0.05	-169.89	-166.30	A-16
P027	32 37.13	106 23.00	3939.0	979135.65	-27.89	-162.23	-158.71	1.25	0.00	0.20	0.00	0.20	-163.28	-159.73	P027
RANG2	32 37.20	106 45.20	4341.5	979102.20	-23.59	-171.66	-167.78	1.32	0.00	-0.08	0.00	-0.08	-173.07	-169.15	RANG2
P101	32 37.31	105 52.93	4390.0	979093.58	-27.80	-177.53	-173.60	1.33	0.15	1.69	0.00	1.84	-177.02	-173.10	P101
A15	32 37.46	106 17.54	3970.0	979128.34	-32.73	-168.14	-164.59	1.25	0.00	-0.05	0.00	-0.05	-169.44	-165.86	A15
P103	32 37.56	105 51.94	4524.0	979090.25	-18.87	-173.17	-169.13	1.35	0.25	2.11	0.00	2.36	-172.16	-168.14	P103
P102	32 37.62	105 50.48	4745.0	979080.43	-8.00	-169.84	-165.59	1.38	4.00	2.64	0.00	6.64	-164.58	-160.47	P102
P100	32 37.71	105 53.76	4306.0	979097.89	-31.94	-178.80	-174.95	1.31	0.12	1.56	0.00	1.68	-178.43	-174.59	P100
P095	32 37.76	106 0.34	4000.0	979125.06	-33.63	-170.06	-166.48	1.26	0.00	0.43	0.00	0.43	-170.89	-167.29	P095
P099	32 37.79	105 54.70	4219.0	979102.53	-35.58	-179.48	-175.71	1.30	0.07	1.31	0.00	1.38	-179.39	-175.62	P099
P098	32 37.82	105 56.18	4148.0	979108.14	-36.69	-178.16	-174.45	1.29	0.00	0.97	0.00	0.97	-178.48	-174.76	P098
P097	32 37.96	105 57.84	4088.0	979114.23	-36.43	-175.86	-172.20	1.28	0.00	0.71	0.00	0.71	-176.43	-172.76	P097
P096	32 38.06	105 59.04	4028.0	979120.23	-36.21	-173.59	-169.99	1.26	0.00	0.57	0.00	0.57	-174.28	-170.66	P096
RANCH	32 38.08	106 26.08	4117.7	979133.20	-14.83	-155.27	-151.59	1.28	0.05	0.56	0.00	0.61	-155.95	-152.25	RANCH
MID	32 38.10	106 0.30	3997.3	979126.70	-32.68	-169.02	-165.44	1.26	0.00	0.45	0.00	0.45	-169.82	-166.23	MID
J 373	32 38.15	106 23.97	3957.4	979136.90	-26.30	-161.27	-157.74	1.28	0.00	0.26	0.00	0.26	-162.27	-158.70	J 373
P090	32 38.16	106 25.40	4046.0	979136.67	-18.21	-156.21	-152.59	1.27	0.05	0.44	0.00	0.49	-156.99	-153.35	P090
4F962	32 38.20	106 34.90	5214.8	979081.40	36.34	-141.52	-136.86	1.43	0.75	1.17	0.00	1.92	-141.03	-136.38	4F962
P026	32 38.27	106 21.79	3941.0	979134.11	-30.80	-165.21	-161.69	1.25	0.00	0.06	0.00	0.06	-166.40	-162.85	P026
MT 55	32 38.27	106 20.37	3950.0	979130.70	-33.36	-168.08	-164.55	1.25	0.00	-0.01	0.00	-0.01	-169.34	-165.78	MT 55
TS636	32 38.33	106 18.70	3965.4	979130.40	-32.29	-167.54	-164.00	1.25	0.00	-0.06	0.00	-0.06	-168.86	-165.28	TS636
J 202	32 38.52	106 22.45	3951.4	979133.50	-30.77	-165.54	-162.01	1.25	0.00	0.09	0.00	0.09	-166.70	-163.14	J 202
HJ12	32 38.70	106 24.72	3977.9	979138.00	-24.03	-159.70	-156.14	1.26	0.00	0.31	0.00	0.31	-160.85	-157.07	HJ12
TS584	32 38.73	106 14.42	3982.3	979131.10	-30.55	-166.38	-162.82	1.26	0.00	-0.05	0.00	-0.05	-167.89	-164.09	TS584
TS133	32 38.75	106 12.32	3974.0	979135.30	-27.16	-162.70	-159.15	1.25	0.00	-0.03	0.00	-0.03	-163.99	-160.40	TS133
WIN 5	32 38.80	106 55.80	4349.6	979095.70	-31.52	-179.87	-175.98	1.32	0.00	-0.15	0.00	-0.15	-181.34	-177.41	WIN 5
A13	32 38.90	106 16.38	3984.0	979133.49	-30.12	-165.31	-161.77	1.25	0.00	-0.06	0.00	-0.06	-166.63	-163.05	A13
P034	32 38.93	106 27.54	4138.0	979140.30	-6.99	-148.12	-144.42	1.28	0.05	0.85	0.00	0.90	-148.50	-144.79	P034
A12	32 39.61	106 15.82	3965.0	979136.15	-28.33	-163.57	-160.02	1.25	0.00	-0.06	0.00	-0.06	-164.88	-161.30	A12
P025	32 39.62	106 20.49	3964.0	979124.41	-40.18	-175.38	-171.84	1.25	0.00	-0.02	0.00	-0.02	-176.65	-173.08	P025
TS424	32 39.68	106 26.32	4012.1	979139.50	-20.65	-157.49	-153.90	1.26	0.05	0.49	0.00	0.54	-158.21	-154.60	TS424
UTERO	32 39.80	106 15.60	3970.6	979135.50	-26.72	-164.14	-160.59	1.25	0.00	-0.06	0.00	-0.06	-165.45	-161.87	UTERO
TS442	32 40.23	106 26.97	4001.9	979141.00	-20.86	-157.35	-153.78	1.26	0.05	0.62	0.00	0.67	-157.94	-154.35	TS442
BMT87	32 40.30	106 20.10	4013.4	979129.70	-31.18	-168.06	-164.47	1.26	0.00	-0.03	0.00	-0.03	-169.36	-165.73	BMT87
A11	32 40.44	106 15.20	3952.0	979137.17	-29.67	-164.46	-160.93	1.25	0.00	-0.06	0.00	-0.06	-165.77	-162.20	A11
S144	32 40.63	105 58.72	4018.0	979117.70	-43.20	-180.24	-176.64	1.26	0.00	0.88	0.00	0.88	-180.62	-177.02	S144

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

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STATION	LATITUDE	LONGITUDE	ELEV	ORIG	GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
S145	32 40.63	105 57.69	4042.0	979113.63	-45.01	-182.87	-179.25	1.27	0.00	1.10	0.00	1.10	-183.04	-179.42		S145
A10	32 41.06	106 14.32	3942.0	979138.86	-29.77	-164.22	-160.69	1.25	0.00	-0.05	0.00	-0.05	-165.51	-161.96		A10
S151	32 41.20	105 56.59	4065.0	979109.27	-47.99	-186.63	-183.00	1.27	0.00	1.59	0.00	1.59	-186.31	-182.69		S151
S150	32 41.29	105 55.40	4077.0	979105.10	-51.15	-190.21	-186.56	1.27	0.00	2.31	0.00	2.31	-189.17	-185.55		S150
GATLN	32 41.60	105 54.60	4104.2	979104.70	-49.42	-189.40	-185.73	1.28	0.20	3.21	0.00	3.41	-187.27	-183.66		GATLN
LUCER	32 41.60	106 27.40	3940.3	979149.60	-19.93	-154.32	-150.80	1.25	0.10	0.69	0.00	0.79	-154.78	-151.24		LUCER
S149	32 41.61	105 54.35	4039.0	979103.14	-57.12	-194.88	-191.27	1.27	0.10	3.76	0.00	3.86	-192.29	-188.74		S149
S143	32 41.76	105 58.72	4014.0	979116.28	-46.54	-183.44	-179.85	1.26	0.00	1.02	0.00	1.02	-183.68	-180.09		S143
S142	32 41.88	105 59.66	4004.0	979119.76	-44.16	-180.73	-177.15	1.26	0.00	0.83	0.00	0.83	-181.16	-177.57		S142
D080	32 42.10	106 13.90	4013.1	979137.41	-25.96	-162.83	-159.24	1.26	0.00	-0.04	0.00	-0.04	-164.13	-160.51		D080
TWOBU	32 42.20	106 7.60	4552.3	979105.20	-7.61	-162.88	-158.81	1.35	0.06	0.68	0.00	0.74	-163.49	-159.40		TWOBU
S147	32 42.46	105 54.60	4158.0	979103.24	-47.00	-188.81	-185.10	1.29	0.15	3.76	0.00	3.91	-186.19	-182.54		S147
A-8	32 42.62	106 13.44	3970.0	979140.94	-27.19	-162.60	-159.05	1.25	0.00	-0.03	0.00	-0.03	-163.88	-160.30		A-8
S148	32 42.73	105 53.09	4537.0	979089.07	-25.91	-180.63	-176.59	1.35	1.00	5.43	0.00	6.43	-175.87	-171.65		S148
DRY	32 43.00	106 44.66	4470.9	979108.10	-13.46	-165.95	-161.95	1.34	0.00	-0.03	0.00	-0.03	-167.32	-163.28		DRY
S141	32 43.03	105 59.45	4007.0	979117.75	-47.47	-184.13	-180.55	1.26	0.00	0.98	0.00	0.98	-184.41	-180.82		S141
S146	32 43.08	105 57.87	4044.0	979111.62	-50.19	-188.11	-184.50	1.27	0.00	1.46	0.00	1.46	-187.92	-184.31		S146
BMD22	32 43.10	105 59.50	4012.5	979118.70	-46.10	-192.95	-179.36	1.26	0.00	0.97	0.00	0.97	-183.26	-179.64		BMD22
S152	32 43.27	105 57.01	4047.0	979108.68	-53.10	-191.13	-187.52	1.27	0.00	1.95	0.00	1.95	-190.45	-186.85		S152
A7	32 43.37	106 12.85	3971.0	979143.85	-25.22	-160.66	-157.10	1.25	0.00	-0.02	0.00	-0.02	-161.93	-158.35		A7
NE 30	32 43.77	106 20.38	4115.8	979126.50	-29.50	-169.88	-166.20	1.28	0.00	-0.02	0.00	-0.02	-171.17	-167.46		NE 30
GI-10	32 43.78	106 12.05	3963.7	979154.00	-16.32	-151.50	-147.96	1.25	0.00	-0.01	0.00	-0.01	-152.76	-149.19		GI-10
REGER	32 43.90	106 54.30	4425.9	979104.50	-22.53	-173.48	-169.52	1.33	0.00	-0.14	0.00	-0.14	-174.95	-170.95		REGER
4F963	32 43.90	106 35.40	5771.0	979049.90	49.32	-147.51	-142.35	1.48	0.70	1.72	0.00	2.42	-146.57	-141.44		4F963
A6	32 44.07	106 12.31	3965.0	979145.52	-25.07	-160.30	-156.76	1.25	0.00	-0.01	0.00	-0.01	-161.57	-157.99		A6
S140	32 44.10	105 59.28	4024.0	979115.69	-49.39	-186.64	-183.04	1.26	0.00	1.12	0.00	1.12	-186.78	-183.18		S140
P116	32 44.60	105 58.10	4042.0	979110.36	-53.72	-191.58	-187.96	1.27	0.00	1.64	0.00	1.64	-191.20	-187.60		P116
S185	32 44.60	105 59.17	4024.0	979114.27	-51.50	-188.74	-185.15	1.26	0.00	1.18	0.00	1.18	-188.83	-185.23		S185
S186	32 44.60	105 58.62	4031.0	979112.11	-53.00	-190.48	-186.88	1.27	0.00	1.42	0.00	1.42	-190.33	-186.73		S186
P117	32 44.61	105 59.20	4024.0	979114.47	-51.31	-188.56	-184.96	1.26	0.00	1.21	0.00	1.21	-188.62	-185.02		P117
S187	32 44.61	105 57.60	4058.0	979108.34	-54.25	-192.65	-189.02	1.27	0.00	1.91	0.00	1.91	-192.01	-188.40		S187
P115	32 44.65	105 57.16	4062.0	979107.56	-54.71	-193.25	-189.61	1.27	0.00	2.23	0.00	2.23	-192.28	-188.68		P115
P114	32 44.66	105 56.00	4130.0	979105.91	-49.97	-190.84	-187.14	1.28	0.15	3.41	0.00	3.56	-188.56	-184.93		P114
S188	32 44.67	105 56.69	4081.0	979106.13	-54.38	-193.56	-189.92	1.27	0.00	2.66	0.00	2.66	-192.17	-188.56		S188
A5	32 44.80	106 11.75	3972.0	979145.74	-25.19	-160.66	-157.11	1.25	0.00	0.01	0.00	0.01	-161.91	-158.33		A5
VAL	32 44.80	105 59.20	4031.5	979116.00	-49.34	-186.84	-183.23	1.27	0.00	1.22	0.00	1.22	-186.80	-183.28		VAL
S162	32 44.81	106 0.79	4027.0	979122.41	-43.37	-180.71	-177.11	1.26	0.00	0.81	0.00	0.81	-181.16	-177.55		S162
S163	32 44.81	106 1.80	4024.0	979128.34	-37.72	-174.96	-171.36	1.26	0.00	0.64	0.00	0.64	-175.59	-171.97		S163
S164	32 44.81	106 2.86	4015.0	979133.34	-33.56	-170.50	-166.91	1.26	0.00	0.50	0.00	0.50	-171.27	-167.66		S164
S189	32 44.81	105 55.33	4248.0	979104.07	-40.93	-185.81	-182.01	1.30	1.50	4.43	0.00	5.93	-181.19	-177.51		S189
P113	32 44.90	105 54.80	4409.0	979096.92	-33.06	-183.44	-179.50	1.33	4.50	4.74	0.00	9.24	-175.53	-171.80		P113
S165	32 44.98	106 4.08	4027.0	979134.42	-31.59	-168.93	-165.33	1.26	0.00	0.37	0.00	0.37	-169.83	-166.20		S165
S166	32 44.99	106 5.10	4013.0	979135.94	-31.40	-168.27	-164.68	1.26	0.00	0.30	0.00	0.30	-169.23	-165.62		S166
MOTEL	32 45.00	106 11.60	4003.3	979143.60	-24.66	-161.20	-157.62	1.26	0.00	0.01	0.00	0.01	-162.45	-158.84		MOTEL
T8-82	32 45.10	106 30.25	4482.5	979135.90	12.55	-140.33	-136.32	1.34	0.60	0.82	0.00	1.42	-140.25	-136.25		T8-82
SEEH0	32 45.35	106 29.20	4343.7	979139.30	2.56	-145.59	-141.70	1.32	0.20	0.54	0.00	0.74	-146.16	-142.26		SEEH0
4F937	32 45.40	106 23.80	3907.0	979145.00	-32.87	-166.12	-162.63	1.24	0.00	0.02	0.00	0.02	-167.34	-163.82		4F937
A4	32 45.54	106 11.22	3983.0	979146.30	-25.61	-161.46	-157.90	1.26	0.00	0.03	0.00	0.03	-162.69	-159.10		A4
S139	32 45.59	105 59.02	4044.0	979114.03	-51.22	-189.14	-185.53	1.27	0.00	1.37	0.00	1.37	-189.04	-185.43		S139
S156	32 46.07	105 56.69	4162.0	979105.74	-49.07	-191.02	-187.30	1.29	0.00	3.01	0.00	3.01	-189.30	-185.62		S156

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STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
MONT	32 46.20	106 3.40	4045.1	979134.50	-31.48	-169.44	-165.83	1.27	0.00	0.46	0.00	0.46	-170.25	-166.61	MONT
A3	32 46.31	106 10.81	3987.0	979144.65	-26.94	-162.92	-159.36	1.26	0.00	0.04	0.00	0.04	-164.14	-160.54	A3
B=2	32 46.55	106 8.64	3990.0	979143.37	-28.27	-164.35	-160.79	1.26	0.00	0.12	0.00	0.12	-165.49	-161.90	B=2
B=1	32 46.67	106 9.34	4017.0	979147.98	-21.28	-158.29	-154.70	1.26	0.00	0.09	0.00	0.09	-159.46	-155.84	B=1
S168	32 46.71	106 10.24	3995.0	979143.73	-27.66	-163.91	-160.34	1.26	0.00	0.06	0.00	0.06	-165.11	-161.51	S168
S155	32 46.91	105 55.10	4625.0	979090.99	-21.44	-179.18	-175.05	1.36	4.79	4.91	0.00	9.70	-170.84	-166.93	S155
4F993	32 47.00	106 48.10	4552.7	979107.50	-11.85	-167.13	-163.06	1.35	0.00	-0.05	0.00	-0.05	-168.53	-164.42	4F993
S138	32 47.04	105 58.79	4071.0	979113.24	-51.45	-190.30	-186.66	1.27	0.00	1.61	0.00	1.61	-189.96	-186.33	S138
D081	32 47.10	106 9.50	4057.0	979140.91	-25.18	-163.55	-159.93	1.27	0.00	0.08	0.00	0.08	-164.74	-161.08	D081
SACPk	32 47.30	105 49.20	9246.6	978802.10	123.48	-191.89	-183.63	1.32	6.46	11.07	0.00	17.53	-175.69	-167.84	SACPk
A1	32 47.40	106 9.03	4027.0	979146.57	-22.75	-160.10	-156.50	1.26	0.00	0.11	0.00	0.11	-161.26	-157.63	A1
S154	32 47.50	105 56.69	4195.0	979107.95	-45.72	-188.79	-185.04	1.29	0.35	3.50	0.00	3.85	-186.24	-182.55	S154
B=4	32 47.72	106 12.94	3975.0	979142.99	-31.66	-167.24	-161.68	1.26	0.00	-0.00	0.00	-0.00	-168.49	-164.91	B=4
S169	32 47.74	106 8.19	4037.0	979141.57	-27.28	-164.97	-161.36	1.27	0.00	0.14	0.00	0.14	-166.09	-162.45	S169
S153	32 47.90	105 57.71	4119.0	979108.93	-52.43	-192.92	-189.23	1.28	0.10	2.40	0.00	2.50	-191.70	-188.05	S153
S137	32 48.05	105 58.62	4102.0	979111.87	-51.30	-191.20	-187.53	1.28	0.00	1.75	0.00	1.75	-190.73	-187.07	S137
S179	32 48.12	105 56.69	4180.0	979109.22	-46.71	-189.27	-185.54	1.29	0.55	3.67	0.00	4.22	-186.35	-182.69	S179
S181	32 48.13	105 57.20	4137.0	979108.44	-51.54	-192.64	-188.94	1.28	0.30	3.03	0.00	3.33	-190.60	-186.95	S181
S182	32 48.13	105 57.71	4117.0	979108.73	-53.13	-193.55	-189.87	1.28	0.15	2.44	0.00	2.59	-192.25	-188.60	S182
S183	32 48.13	105 58.54	4102.0	979111.33	-51.94	-191.85	-188.18	1.28	0.00	1.81	0.00	1.81	-191.32	-187.67	S183
S184	32 48.13	105 58.10	4106.0	979109.91	-52.99	-193.03	-189.36	1.28	0.00	2.11	0.00	2.11	-192.20	-188.55	S184
S180	32 48.24	105 55.98	4423.0	979103.24	-30.01	-180.86	-176.90	1.33	3.00	4.09	0.00	7.09	-175.10	-171.30	S180
D=3	32 48.30	106 30.30	4292.2	979148.80	3.17	-143.22	-139.38	1.31	0.50	0.78	0.00	1.28	-143.25	-139.41	D=3
MULEP	32 48.50	105 52.70	5109.6	978878.90	91.80	-184.79	-177.54	1.46	4.39	11.02	0.00	15.41	-170.84	-163.95	MULEP
S170	32 48.65	106 6.43	4038.0	979137.51	-32.50	-170.22	-166.61	1.27	0.00	0.25	0.00	0.25	-171.23	-167.60	S170
WHSAN	32 48.80	106 16.00	3964.3	979142.20	-34.94	-170.15	-166.60	1.25	0.00	-0.06	0.00	-0.06	-171.46	-167.88	WHSAN
P112	32 48.94	105 57.72	4151.0	979108.53	-51.25	-192.82	-189.11	1.29	0.10	2.45	0.00	2.55	-191.56	-187.89	P112
D082	32 48.99	106 6.67	4085.9	979136.06	-29.91	-169.26	-165.61	1.28	0.00	0.12	0.00	0.12	-170.41	-166.73	D082
P110	32 49.00	105 55.98	4456.0	979101.22	-29.97	-181.94	-177.96	1.34	3.40	3.79	0.00	7.19	-176.09	-172.26	P110
P109	32 49.01	105 56.48	4136.0	979110.46	-50.83	-191.89	-188.19	1.28	0.05	1.85	0.00	1.90	-191.28	-187.60	P109
P111	32 49.01	105 56.70	4209.0	979108.14	-46.28	-189.84	-186.07	1.30	0.55	3.65	0.00	4.20	-186.93	-183.25	P111
S171	32 49.34	106 5.10	4063.0	979138.19	-30.41	-168.99	-165.35	1.27	0.00	0.34	0.00	0.34	-169.92	-166.26	S171
S167	32 49.66	106 5.10	4070.0	979137.16	-31.22	-170.04	-166.40	1.27	0.00	0.34	0.00	0.34	-170.97	-167.30	S167
S172	32 49.86	106 4.02	4078.0	979132.80	-35.10	-174.19	-170.54	1.27	0.00	0.45	0.00	0.45	-175.02	-171.35	S172
S158	32 50.15	105 56.69	4325.0	979104.56	-40.52	-188.03	-184.16	1.32	0.55	3.20	0.00	3.75	-185.60	-181.79	S158
D083	32 50.20	106 3.30	4172.8	979117.81	-41.65	-183.97	-180.24	1.29	0.00	0.51	0.00	0.51	-184.75	-181.00	D083
S157	32 50.23	105 55.98	4577.0	979095.05	-26.45	-182.55	-178.46	1.35	2.50	3.69	0.00	6.19	-177.71	-173.75	S157
S136	32 50.29	105 58.27	4202.0	979110.01	-46.83	-190.14	-186.38	1.30	0.05	1.90	0.00	1.95	-189.49	-185.75	S136
S173	32 50.30	106 2.98	4121.0	979128.49	-35.98	-176.53	-172.84	1.28	0.00	0.56	0.00	0.56	-177.25	-173.55	S173
ALKAL	32 50.30	106 27.90	3937.8	979151.10	-30.59	-164.89	-161.37	1.25	0.00	0.27	0.00	0.27	-165.87	-162.32	ALKAL
BLO#	32 50.30	106 47.10	4711.1	979105.90	-3.09	-163.77	-159.55	1.37	0.00	0.04	0.00	0.04	-165.10	-160.86	BLO#
S174	32 50.74	106 1.85	4142.0	979123.68	-39.42	-180.68	-176.98	1.29	0.00	0.73	0.00	0.73	-181.24	-177.52	S174
D084	32 51.00	106 0.00	4199.4	979114.60	-43.46	-186.68	-182.93	1.30	0.00	1.12	0.00	1.12	-186.86	-183.10	D084
S175	32 51.10	106 0.98	4167.0	979119.12	-42.12	-184.24	-180.51	1.29	0.00	0.89	0.00	0.89	-184.64	-180.90	S175
4F938	32 51.10	106 24.40	3902.0	979146.80	-39.35	-172.44	-168.95	1.24	0.00	-0.01	0.00	-0.01	-173.69	-170.17	4F938
2=2PT	32 51.47	106 5.25	4092.0	979131.40	-37.40	-176.96	-173.30	1.28	0.00	0.34	0.00	0.34	-177.90	-174.22	2=2PT
S178	32 51.50	105 59.05	4262.0	979109.17	-43.69	-189.05	-185.24	1.31	0.05	1.88	0.00	1.93	-188.42	-184.63	S178
S176	32 51.53	105 59.89	4201.0	979115.69	-42.94	-186.22	-182.47	1.30	0.00	1.15	0.00	1.15	-186.37	-182.61	S176
S159	32 51.67	105 57.10	4367.0	979104.71	-38.51	-187.45	-183.55	1.32	0.15	2.40	0.00	2.55	-186.23	-182.38	S159
S161	32 51.72	105 54.90	4781.0	979085.45	-18.91	-181.98	-177.70	1.38	3.15	3.95	0.00	7.10	-176.26	-172.14	S161

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	DBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
S177	32 51.98	105 58.79	4244.0	979111.77	-43.44	-188.19	-184.39	1.30	0.00	1.50 0.00	1.50	-187.99	-184.20		S177
ALKTG	32 51.98	106 26.53	3898.8	979148.20	-39.46	-172.44	-168.95	1.24	0.00	0.10 0.00	0.10	-173.88	-170.06		ALKTG
TS370	32 52.28	106 29.00	3995.2	979150.80	-28.21	-164.47	-160.90	1.26	0.10	0.39 0.00	0.49	-168.24	-161.85		TS370
GORDU	32 52.30	105 58.00	4277.7	979110.90	-41.58	-187.48	-183.65	1.31	0.03	1.82 0.00	1.85	-186.93	-183.12		GORDU
D016	32 52.40	105 59.80	4212.2	979117.60	-41.17	-184.84	-181.07	1.30	0.00	1.15 0.00	1.15	-184.99	-181.21		D016
A1R	32 52.40	106 4.48	4139.4	979129.30	-36.32	-177.50	-173.80	1.28	0.00	0.40 0.00	0.40	-178.38	-174.66		A1R
EASTB	32 52.50	106 4.90	4139.1	979131.10	-34.68	-175.85	-172.18	1.28	0.00	0.36 0.00	0.36	-176.78	-173.05		EASTB
WESTB	32 52.50	106 9.70	4040.4	979146.40	-28.66	-166.47	-162.85	1.27	0.00	0.10 0.00	0.10	-167.64	-163.99		WESTB
S160	32 52.80	105 56.05	4468.0	979098.93	-36.34	-188.73	-184.74	1.34	0.30	2.96 0.00	3.26	-186.81	-182.97		S160
NW 30	32 53.08	106 29.75	4020.9	979152.60	-25.05	-162.19	-158.60	1.26	0.15	0.58 0.00	0.73	-162.73	-159.12		NW 30
S190	32 53.08	106 8.93	4057.0	979143.19	-31.09	-169.45	-165.82	1.27	0.00	0.13 0.00	0.13	-170.59	-166.93		S190
ALAM	32 53.13	105 57.59	4322.0	979107.80	-41.65	-189.06	-185.20	1.32	0.03	1.94 0.00	1.97	-189.41	-184.96		ALAM
P106	32 53.43	105 56.57	4383.0	979102.63	-41.50	-190.99	-187.07	1.33	0.25	2.57 0.00	2.82	-189.50	-185.62		P106
P107	32 53.43	105 55.51	4496.0	979097.21	-36.30	-189.64	-185.62	1.34	0.40	3.48 0.00	3.88	-187.11	-183.15		P107
P104	32 53.49	105 59.93	4245.0	979116.02	-41.17	-185.95	-182.15	1.30	0.00	1.08 0.00	1.08	-186.17	-182.37		P104
WIN 6	32 53.50	106 50.50	4648.8	979106.80	-12.44	-170.99	-166.83	1.37	0.00	-0.01 0.00	-0.01	-172.37	-168.17		WIN 6
P105	32 53.52	105 58.80	4267.0	979112.15	-43.01	-188.54	-184.73	1.31	0.00	1.42 0.00	1.42	-188.43	-184.62		P105
GLO 3	32 53.60	106 16.40	3972.1	979143.10	-39.90	-175.37	-171.82	1.25	0.00	-0.06 0.00	-0.06	-176.68	-173.10		GLO 3
P108	32 53.68	105 55.03	4632.0	979094.50	-26.54	-184.52	-180.38	1.36	1.40	3.77 0.00	5.17	-180.71	-176.66		P108
D024	32 53.90	105 57.30	4332.9	979106.51	-42.98	-190.76	-186.88	1.32	0.05	2.06 0.00	2.11	-189.96	-186.11		D024
TS508	32 53.92	106 24.57	3906.3	979144.20	-45.42	-178.65	-175.16	1.24	0.00	-0.02 0.00	-0.02	-179.92	-176.39		TS508
S191	32 54.00	106 9.02	4063.0	979142.41	-32.59	-171.16	-167.53	1.27	0.00	0.13 0.00	0.13	-172.31	-168.65		S191
D085	32 54.00	106 59.50	4601.0	979110.62	-13.80	-170.72	-166.61	1.36	0.00	-0.12 0.00	-0.12	-172.20	-168.05		D085
PS767	32 54.10	105 57.57	4339.4	979110.60	-38.55	-186.55	-182.67	1.32	0.05	1.86 0.00	1.91	-185.96	-182.10		PS767
ST 8	32 54.30	106 20.57	3908.7	979141.60	-48.32	-181.63	-178.13	1.24	0.00	-0.09 0.00	-0.09	-182.96	-179.43		ST 8
D025	32 54.34	105 57.60	4339.2	979108.85	-40.65	-188.64	-184.76	1.32	0.05	1.84 0.00	1.89	-188.07	-184.20		D025
TS409	32 54.38	106 27.97	3901.6	979151.90	-38.79	-171.86	-168.38	1.24	0.00	0.22 0.00	0.22	-172.89	-169.37		TS409
D086	32 54.53	106 9.08	4067.5	979143.17	-32.13	-170.86	-167.22	1.27	0.00	0.12 0.00	0.12	-172.01	-168.34		D086
S192	32 55.01	106 9.10	4072.0	979142.85	-32.69	-171.57	-167.93	1.27	0.00	0.12 0.00	0.12	-172.72	-169.05		S192
D087	32 55.13	106 21.11	3919.9	979141.81	-48.19	-181.89	-178.38	1.24	0.00	-0.08 0.00	-0.08	-183.22	-179.68		D087
PLANE	32 55.48	106 23.50	3912.0	979144.10	-47.13	-180.55	-177.06	1.24	0.00	-0.06 0.00	-0.06	-181.86	-178.33		PLANE
TS453	32 55.83	106 24.48	3904.0	979145.70	-46.76	-179.91	-176.42	1.24	0.00	-0.04 0.00	-0.04	-181.19	-177.67		TS453
J 539	32 55.83	106 25.37	3905.2	979147.50	-44.85	-178.04	-174.55	1.24	0.00	-0.01 0.00	-0.01	-179.29	-175.77		J 539
S193	32 55.98	106 9.20	4081.0	979144.81	-31.22	-170.41	-166.76	1.27	0.00	0.12 0.00	0.12	-171.56	-167.88		S193
P-7	32 56.60	106 5.92	4141.6	979144.80	-26.38	-167.64	-163.93	1.29	0.00	0.30 0.00	0.30	-168.62	-164.89		P-7
PETEB	32 56.80	106 4.20	4204.6	979144.20	-21.33	-164.74	-160.98	1.30	0.00	0.42 0.00	0.42	-165.61	-161.83		PETEB
D089	32 56.87	106 4.50	4230.9	979141.93	-21.23	-165.53	-161.74	1.30	0.00	0.39 0.00	0.39	-166.44	-162.63		D089
4F951	32 56.90	106 30.70	3922.0	979162.30	-29.94	-163.71	-160.20	1.25	0.08	0.71 0.00	0.79	-164.16	-160.65		4F951
S194	32 56.99	106 9.26	4086.0	979146.48	-30.46	-169.82	-166.17	1.28	0.00	0.12 0.00	0.12	-170.98	-167.30		S194
BNM06	32 57.00	105 50.60	6516.9	979005.80	57.35	-164.92	-159.09	1.51	1.40	3.52 0.00	4.92	-163.51	-158.78		BNM06
D028	32 57.20	105 44.80	8664.0	978859.11	112.16	-183.34	-175.60	1.40	0.33	4.83 0.00	5.16	-179.59	-171.94		D028
BNM05	32 57.30	105 49.80	6691.4	978994.60	62.14	-166.08	-160.10	1.52	1.20	3.52 0.00	4.72	-162.88	-156.98		BNM05
LUZ	32 57.40	105 58.40	4524.6	979113.20	-23.07	-177.39	-173.34	1.35	0.05	1.28 0.00	1.33	-177.41	-173.36		LUZ
GLO 1	32 57.40	106 26.70	3905.1	979152.10	-42.42	-175.61	-172.11	1.24	0.00	0.05 0.00	0.05	-176.80	-173.28		GLO 1
D090	32 57.41	106 9.31	4087.5	979146.97	-30.41	-169.82	-166.17	1.28	0.00	0.12 0.00	0.12	-170.98	-167.30		D090
FLATS	32 57.45	106 25.60	3908.9	979149.10	-45.13	-178.45	-174.95	1.24	0.00	-0.00 0.00	-0.00	-179.69	-176.17		FLATS
D128	32 57.50	105 56.50	4698.1	979104.20	-15.90	-176.13	-171.93	1.37	0.10	1.94 0.00	2.04	-175.46	-171.28		D128
BC193	32 57.50	105 44.50	8662.5	978863.10	115.59	-179.86	-172.11	1.40	0.33	4.59 0.00	4.92	-176.34	-168.69		BC193
GLO 2	32 57.50	106 20.40	3928.7	979148.60	-43.83	-177.83	-174.32	1.25	0.00	-0.09 0.00	-0.09	-179.16	-175.62		GLO 2
GLO 4	32 57.50	106 14.10	3981.3	979156.20	-31.29	-167.08	-163.52	1.26	0.00	-0.02 0.00	-0.02	-168.35	-164.76		GLO 4

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
AL108	32 57.52	106 31.13	3973.5	979158.00	-30.25	-168.77	-162.22	1.25	0.02	0.72	0.00	0.74	-166.29	-162.72	AL108
BNM07	32 57.70	105 51.50	5916.3	979041.60	35.74	-166.05	-160.76	1.49	1.40	3.22	0.00	4.62	-162.91	-157.71	BNM07
D091	32 57.73	106 11.87	4063.9	979152.39	-27.65	-166.26	-162.62	1.27	0.00	0.03	0.00	0.03	-167.49	-163.83	D091
BMR88	32 57.80	105 48.00	7111.0	978963.40	69.69	-172.84	-166.48	1.51	2.32	3.75	0.00	6.07	-168.29	-162.05	BMR88
BA193	32 57.80	105 45.60	7795.5	978915.70	86.31	-179.56	-172.59	1.48	2.80	3.70	0.00	6.20	-174.85	-168.00	BA193
S195	32 57.99	106 9.34	4089.0	979147.90	-30.14	-169.60	-165.94	1.28	0.00	0.12	0.00	0.12	-170.76	-167.07	S195
G-4	32 58.48	105 58.73	4511.0	979116.13	-22.91	-176.76	-172.73	1.35	0.05	1.19	0.00	1.24	-176.87	-172.83	G-4
MUERT	32 58.70	106 48.30	5085.7	979098.90	13.59	-159.87	-155.32	1.42	0.00	0.26	0.00	0.26	-161.03	-156.45	MUERT
BMP88	32 58.80	105 54.60	5025.8	979096.60	5.52	-165.89	-161.40	1.41	0.93	2.32	0.00	3.25	-164.06	-159.61	BMP88
S196	32 58.84	106 9.41	4092.0	979149.22	-29.70	-169.27	-165.61	1.28	0.00	0.11	0.00	0.11	-170.43	-166.74	S196
G-3	32 58.88	105 59.51	4461.0	979119.47	-24.82	-176.97	-172.98	1.34	0.03	1.02	0.00	1.05	-177.26	-173.26	G-3
MT109	32 59.08	106 22.32	3918.0	979150.20	-45.41	-179.04	-175.54	1.24	0.00	-0.08	0.00	-0.08	-180.37	-176.81	MT109
D125	32 59.70	107 0.00	4650.9	979119.40	-8.16	-166.79	-162.63	1.37	0.00	-0.11	0.00	-0.11	-168.26	-164.07	D125
4F965	32 59.70	106 34.60	4857.0	979119.70	11.51	-154.14	-149.80	1.39	1.50	1.42	0.00	2.92	-152.61	-148.31	4F965
RV-13	32 59.95	106 0.01	4436.7	979122.02	-26.02	-177.34	-173.38	1.33	0.03	0.92	0.00	0.95	-177.72	-173.75	RV-13
DRUB	33 0.11	106 23.69	3952.4	979150.54	-43.26	-178.06	-174.52	1.25	0.00	-0.07	0.00	-0.07	-179.38	-175.81	DRUB
D-4	33 0.12	106 8.57	4133.0	979152.93	-23.90	-164.86	-161.17	1.28	0.00	0.15	0.00	0.15	-165.99	-162.27	D-4
SHOT	33 0.79	106 31.03	3937.0	979156.51	-39.67	-173.95	-170.43	1.25	0.02	0.49	0.00	0.51	-174.68	-171.14	SHOT
D-3	33 1.28	106 8.21	4182.0	979159.14	-14.68	-157.31	-153.57	1.29	0.00	0.17	0.00	0.17	-158.44	-154.67	D-3
B4414	33 1.28	106 9.72	4412.4	979124.27	-27.89	-178.38	-174.43	1.33	0.05	0.81	0.00	0.86	-178.89	-174.89	B4414
TUPK2	33 1.60	106 8.30	4397.7	979144.50	-9.48	-159.47	-155.54	1.33	0.00	0.24	0.00	0.24	-160.56	-156.60	TUPK2
4F980	33 1.70	106 42.00	6447.7	979023.90	62.48	-157.43	-151.66	1.51	4.12	2.12	0.00	6.24	-152.70	-147.06	4F980
HA261	33 1.93	106 24.38	3978.7	979149.47	-44.36	-180.05	-176.50	1.26	0.00	-0.07	0.00	-0.07	-181.38	-177.79	HA261
F-241	33 2.25	106 32.07	3965.2	979156.56	-38.98	-174.22	-170.67	1.25	0.05	0.75	0.00	0.80	-174.67	-171.12	F-241
T-354	33 2.25	106 26.31	4040.3	979144.99	-43.49	-181.29	-177.67	1.27	0.00	-0.02	0.00	-0.02	-182.58	-178.93	T-354
RV-14	33 2.62	106 1.39	4403.2	979125.78	-29.09	-179.26	-175.33	1.33	0.00	0.72	0.00	0.72	-179.87	-175.92	RV-14
D-2	33 2.85	106 9.00	4140.0	979163.24	-16.69	-157.89	-154.19	1.28	0.00	0.13	0.00	0.13	-159.04	-155.31	D-2
GUN	33 3.30	106 31.61	3972.1	979155.98	-40.35	-175.83	-172.28	1.25	0.05	0.56	0.00	0.61	-176.47	-172.90	GUN
TS175	33 3.34	106 16.91	3995.7	979163.62	-30.55	-166.83	-163.26	1.26	0.00	-0.07	0.00	-0.07	-168.16	-164.55	TS175
4F952	33 3.47	106 27.76	4019.0	979148.68	-43.48	-180.55	-176.96	1.26	0.00	0.04	0.00	0.04	-181.77	-178.15	4F952
BOMB	33 3.81	106 22.07	3987.5	979149.63	-45.96	-181.96	-178.39	1.26	0.00	-0.09	0.00	-0.09	-183.30	-179.70	BOMB
L-22	33 3.86	106 2.02	4428.8	979125.38	-28.79	-179.84	-175.88	1.33	0.00	0.62	0.00	0.62	-180.55	-176.57	L-22
D-241	33 3.99	106 32.06	3966.2	979157.83	-40.01	-175.28	-171.74	1.25	0.01	0.70	0.00	0.71	-175.83	-172.27	D-241
952AZ	33 4.14	106 27.13	3976.0	979151.32	-45.80	-181.41	-177.86	1.26	0.00	0.02	0.00	0.02	-182.64	-179.06	952AZ
D094	33 4.40	106 5.80	4205.0	979153.02	-22.93	-166.35	-162.59	1.30	0.00	0.32	0.00	0.32	-167.32	-163.54	D094
D095	33 4.50	106 1.00	4515.0	979116.22	-30.73	-184.72	-180.68	1.35	0.00	0.75	0.00	0.75	-185.31	-181.26	D095
TUL 8	33 4.58	106 2.03	4451.4	979124.66	-28.38	-180.20	-176.22	1.34	0.01	0.62	0.00	0.63	-180.90	-176.90	TUL 8
C-12	33 4.60	106 7.05	4225.0	979154.47	-19.88	-163.98	-160.20	1.30	0.00	0.23	0.00	0.23	-165.04	-161.24	C-12
D-8	33 4.60	106 4.12	4340.0	979135.53	-28.01	-176.03	-172.15	1.32	0.00	0.42	0.00	0.42	-176.93	-173.03	D-8
OASIS	33 4.60	106 8.90	4152.3	979160.60	-20.58	-162.20	-158.49	1.29	0.00	0.14	0.00	0.14	-163.35	-159.80	OASIS
BMA48	33 4.62	106 5.59	4302.3	979143.29	-23.82	-170.55	-166.71	1.31	0.00	0.31	0.00	0.31	-171.55	-167.68	BMA48
D-1	33 4.64	106 6.60	4259.0	979149.91	-21.30	-166.56	-162.75	1.31	0.00	0.26	0.00	0.26	-167.50	-163.77	D-1
FI-61	33 4.67	106 10.42	4117.8	979159.73	-24.79	-165.24	-161.55	1.28	0.00	0.08	0.00	0.08	-166.43	-162.72	FI-61
4F996	33 4.70	106 48.40	5481.6	979086.20	29.85	-157.11	-152.21	1.46	0.10	0.62	0.00	0.72	-157.86	-152.94	4F996
D-6	33 4.74	106 0.55	4549.0	979120.81	-23.27	-178.42	-174.35	1.35	0.05	0.82	0.00	0.87	-178.90	-174.82	D-6
C-48	33 4.81	106 11.25	4106.3	979158.71	-27.09	-167.14	-163.47	1.28	0.00	0.05	0.00	0.05	-168.36	-164.66	C-48
TS829	33 4.85	106 24.37	3960.9	979149.27	-50.25	-185.35	-181.80	1.25	0.00	-0.06	0.00	-0.06	-186.66	-183.09	TS829
BMA23	33 4.87	106 59.15	4698.2	979122.57	-7.66	-167.90	-163.70	1.37	0.08	1.04	0.00	1.09	-168.18	-163.98	BMA23
C-241	33 4.88	106 32.09	3985.2	979157.41	-39.87	-175.79	-172.23	1.26	0.01	0.67	0.00	0.68	-176.37	-172.79	C-241
RHODE	33 5.12	106 11.35	4117.8	979157.12	-28.02	-168.47	-164.78	1.28	0.00	0.05	0.00	0.05	-169.70	-166.98	RHODE

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	GBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA	
JACK	33	5.15	106 24.40	3960.0	979148.84	-51.18	-186.24	-182.70	1.25	0.00	-0.06	0.00	-0.06	-187.56	-183.98	JACK
SC-35	33	5.21	106 9.33	4143.7	979158.77	-24.06	-165.39	-161.68	1.29	0.00	0.12	0.00	0.12	-166.55	-162.82	SC-35
D-48	33	5.25	106 13.20	4042.3	979160.22	-32.20	-170.07	-166.45	1.27	0.00	0.00	0.00	0.00	-171.33	-167.69	D-48
D-689	33	5.26	106 23.10	3954.4	979148.87	-51.83	-186.70	-183.16	1.25	0.00	-0.08	0.00	-0.08	-188.03	-184.46	D-689
RV-15	33	5.31	106 2.15	4459.6	979124.92	-28.35	-160.45	-176.46	1.34	0.02	0.61	0.00	0.63	-181.15	-177.15	RV-15
FI-59	33	5.36	106 13.31	4053.8	979159.23	-32.26	-170.52	-166.90	1.27	0.00	-0.00	0.00	-0.00	-171.79	-168.13	FI-59
T5541	33	5.37	106 19.12	3987.2	979160.28	-37.49	-173.48	-169.91	1.26	0.00	-0.08	0.00	-0.08	-174.81	-171.21	T5541
B-241	33	5.69	106 31.77	3994.4	979157.26	-40.27	-176.50	-172.93	1.26	0.01	0.56	0.00	0.87	-177.20	-173.61	B-241
YB-42	33	5.78	106 57.40	4965.5	979108.84	2.48	-166.87	-162.43	1.41	0.15	1.31	0.00	1.46	-166.83	-162.39	YB-42
BAL-2	33	5.84	106 26.14	4005.6	979147.30	-49.38	-186.00	-182.42	1.26	0.00	-0.02	0.00	-0.02	-187.28	-183.66	BAL-2
T8840	33	5.90	106 23.70	3959.3	979147.72	-53.40	-188.44	-184.90	1.25	0.00	-0.07	0.00	-0.07	-189.76	-186.18	T8840
D097	33	6.00	106 33.00	4000.9	979151.72	-45.63	-182.08	-178.51	1.26	0.12	0.99	0.00	1.11	-182.23	-178.65	D097
C-8	33	6.10	106 14.84	4012.0	979160.58	-35.86	-172.70	-169.11	1.26	0.00	-0.02	0.00	-0.02	-173.98	-170.36	C-8
OKK	33	6.20	106 9.40	4146.3	979158.65	-25.30	-166.72	-163.01	1.29	0.00	0.12	0.00	0.12	-167.88	-164.14	OKK
LAURA	33	6.39	106 30.58	3986.2	979187.08	-42.19	-178.14	-174.58	1.26	0.00	0.33	0.00	0.33	-179.07	-175.48	LAURA
VALLY	33	6.40	106 16.20	4009.2	979161.30	-35.82	-172.56	-168.97	1.26	0.00	-0.05	0.00	-0.05	-173.87	-170.25	VALLY
M-22	33	6.45	106 2.36	4454.7	979126.44	-28.86	-180.80	-176.81	1.34	0.02	0.61	0.00	0.63	-181.50	-177.50	M-22
F-48	33	6.70	106 16.78	4014.1	979159.93	-37.14	-174.05	-170.46	1.26	0.00	-0.06	0.00	-0.06	-175.36	-171.74	F-48
G-48	33	6.91	106 18.85	4002.0	979158.82	-39.68	-176.17	-172.59	1.26	0.00	-0.08	0.00	-0.08	-177.51	-173.90	G-48
D 5	33	6.95	106 34.39	4409.8	979151.34	-8.87	-159.28	-155.33	1.33	1.20	1.03	0.00	2.23	-158.37	-154.45	D 5
TS751	33	6.95	106 10.67	4121.4	979156.76	-30.57	-171.13	-167.45	1.28	0.00	0.08	0.00	0.08	-172.34	-168.62	TS751
YB-43	33	6.96	106 55.71	5181.1	979093.49	5.77	-170.94	-166.30	1.43	0.12	1.67	0.00	1.79	-170.58	-165.95	YB-43
D099	33	7.00	106 32.00	4004.9	979151.72	-46.63	-183.22	-179.64	1.26	0.03	0.60	0.00	0.63	-183.85	-180.26	D099
C-319	33	7.12	106 26.23	3984.9	979148.85	-51.54	-187.46	-183.89	1.26	0.00	0.00	0.00	0.00	-188.71	-185.11	C-319
CORNR	33	7.13	106 20.34	4032.8	979151.59	-44.31	-181.86	-178.25	1.27	0.00	-0.09	0.00	-0.09	-183.21	-179.57	CORNR
TS257	33	7.13	106 25.00	3979.0	979147.35	-53.61	-189.32	-185.76	1.26	0.00	-0.03	0.00	-0.03	-190.61	-187.02	TS257
J-48	33	7.17	106 22.61	4013.1	979143.91	-53.90	-190.77	-187.19	1.26	0.00	-0.08	0.00	-0.08	-192.12	-188.49	J-48
ELRAC	33	7.30	106 24.27	3966.5	979147.26	-55.11	-190.40	-186.85	1.25	0.00	-0.05	0.00	-0.05	-191.70	-188.12	ELRAC
TS742	33	7.33	106 10.02	4145.7	979156.44	-29.12	-170.52	-166.81	1.29	0.00	0.10	0.00	0.10	-171.71	-167.97	TS742
D-667	33	7.45	106 27.13	3977.3	979151.49	-50.07	-185.72	-182.17	1.26	0.00	0.04	0.00	0.04	-186.94	-183.35	D-667
D-331	33	7.70	106 17.57	4024.9	979158.88	-38.55	-175.83	-172.23	1.26	0.00	-0.06	0.00	-0.06	-177.16	-173.52	D-331
COWN2	33	7.94	106 9.57	4155.5	979156.80	-28.68	-170.41	-166.70	1.29	0.00	0.12	0.00	0.12	-171.58	-167.83	COWN2
B4462	33	7.96	106 2.61	4460.3	979127.16	-29.70	-181.82	-177.83	1.34	0.04	0.60	0.00	0.64	-182.52	-178.52	B4462
Y-240	33	8.05	106 30.30	4064.6	979157.31	-42.51	-179.10	-175.52	1.26	0.00	0.31	0.00	0.31	-180.05	-176.44	Y-240
TS152	33	8.26	106 20.73	4014.1	979150.69	-46.53	-185.44	-181.85	1.26	0.00	-0.08	0.00	-0.08	-186.78	-183.16	TS152
A-319	33	8.35	106 27.88	3998.4	979152.93	-47.89	-184.26	-180.69	1.26	0.00	0.10	0.00	0.10	-185.42	-181.82	A-319
WIN12	33	8.40	106 54.40	4983.5	979116.90	8.62	-161.35	-156.89	1.41	0.00	0.07	0.00	0.07	-162.68	-158.19	WIN12
H-239	33	8.51	106 9.93	4151.2	979157.34	-29.33	-170.92	-167.21	1.29	0.00	0.11	0.00	0.11	-172.10	-168.36	H-239
W-94	33	8.60	106 54.20	5476.9	979070.30	8.13	-178.67	-173.77	1.46	1.00	2.07	0.00	3.07	-177.06	-172.20	W-94
WC-50	33	8.71	106 26.19	4030.8	979147.26	-51.01	-188.49	-184.88	1.27	0.00	0.01	0.00	0.01	-189.74	-186.11	WC-50
BASE2	33	8.81	106 28.39	3998.0	979157.94	-43.55	-179.91	-176.33	1.26	0.00	0.15	0.00	0.15	-181.02	-177.42	BASE2
Y-319	33	8.82	106 29.76	4005.6	979157.68	-43.11	-179.73	-176.15	1.26	0.00	0.27	0.00	0.27	-180.73	-177.11	Y-319
N-22	33	8.86	106 2.74	4459.0	979126.28	-31.94	-184.02	-180.03	1.34	0.03	0.60	0.00	0.63	-184.72	-180.72	N-22
SALTT	33	9.01	106 22.62	4039.7	979144.84	-53.01	-190.79	-187.17	1.27	0.00	-0.07	0.00	-0.07	-192.12	-188.47	SALTT
F-331	33	9.09	106 16.57	4044.6	979159.40	-38.10	-176.04	-172.43	1.27	0.00	-0.05	0.00	-0.05	-177.36	-173.71	F-331
Q-238	33	9.15	106 28.82	4002.6	979156.69	-44.84	-181.35	-177.77	1.26	0.00	0.19	0.00	0.19	-182.42	-178.81	Q-238
A-239	33	9.37	106 10.20	4142.7	979156.65	-32.01	-173.30	-169.60	1.29	0.00	0.11	0.00	0.11	-174.48	-170.75	A-239
BMP23	33	9.40	106 50.80	5918.1	979037.80	16.00	-185.85	-180.56	1.49	1.00	2.65	0.00	3.65	-183.69	-178.66	BMP23
AZNMK	33	9.50	106 46.30	6641.1	978996.00	42.01	-184.49	-178.55	1.52	1.00	2.45	0.00	3.45	-182.56	-176.67	AZNMK
P-238	33	9.61	106 29.31	4017.7	979158.01	-42.73	-179.76	-176.17	1.26	0.00	0.26	0.00	0.26	-180.77	-177.15	P-238

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

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STATION	LATITUDE	LONGITUDE	ELEV	GRV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA		
G-331	33	9.89	106	16.44	4057.7	979159.41	-37.96	-176.35	-172.72	1.27	0.00	-0.05	0.00	-0.05	-177.67	-174.01	G-331
TS600	33	10.08	106	23.54	4064.0	979145.07	-51.97	-190.58	-186.94	1.27	0.00	-0.04	0.00	-0.04	-191.89	-188.22	TS600
4F997	33	10.30	106	48.00	5826.3	979071.40	39.73	-188.99	-153.78	1.49	0.25	1.01	0.00	1.26	-159.21	-154.00	4F997
4F953	33	10.40	106	30.20	4085.8	979157.70	-37.73	-177.08	-173.43	1.28	0.02	0.39	0.00	0.41	-177.95	-174.27	4F953
SPENC	33	10.50	106	8.69	4184.4	979151.83	-34.47	-177.18	-173.44	1.29	0.00	0.18	0.00	0.18	-178.29	-174.52	SPENC
M-238	33	10.72	106	28.60	4025.2	979160.12	-41.45	-178.73	-175.14	1.26	0.00	0.25	0.00	0.25	-179.74	-176.12	M-238
P-48	33	10.74	106	31.37	4162.1	979157.51	-31.22	-173.17	-169.45	1.29	-0.02	0.57	0.00	0.59	-173.87	-170.13	P-48
H-331	33	10.76	106	16.61	4065.3	979159.89	-37.96	-176.62	-172.98	1.27	0.00	-0.04	0.00	-0.04	-177.93	-174.26	H-331
B4520	33	10.81	106	3.08	4518.0	979125.23	-30.13	-184.22	-180.18	1.35	0.03	0.59	0.00	0.62	-184.95	-180.89	B4520
BMT48	33	11.10	106	38.70	5188.7	979116.50	23.79	-153.18	-148.54	1.43	2.50	1.82	0.00	4.32	-150.29	-145.73	BMT48
RV-16	33	11.15	106	3.12	4519.0	979125.88	-29.86	-183.99	-179.94	1.35	0.04	0.59	0.00	0.63	-184.70	-180.64	RV-16
TS782	33	11.29	106	22.75	4040.3	979150.17	-50.77	-188.57	-184.95	1.27	0.00	-0.03	0.00	-0.03	-189.86	-186.21	TS782
S-48	33	11.34	106	36.90	4909.4	979133.83	14.53	-152.91	-148.52	1.40	2.50	1.60	0.00	4.10	-150.21	-145.89	S-48
PET15	33	11.40	106	7.20	4284.0	979142.30	-35.88	-181.99	-178.16	1.31	0.00	0.25	0.00	0.25	-183.04	-179.19	PET15
L-238	33	11.47	106	28.16	4026.6	979162.07	-40.40	-177.74	-174.13	1.26	0.00	0.27	0.00	0.27	-178.73	-175.10	L-238
BMV48	33	11.50	106	42.10	5934.2	979071.30	48.11	-154.28	-149.98	1.49	1.00	1.51	0.00	2.51	-153.27	-147.99	BMV48
Q-48	33	11.63	106	33.12	4385.8	979155.57	-13.35	-162.94	-159.01	1.33	0.05	1.01	0.00	1.06	-163.21	-159.28	Q-48
J-331	33	11.64	106	16.75	4084.0	979159.44	-37.87	-177.16	-173.51	1.27	0.00	-0.04	0.00	-0.04	-178.48	-174.79	J-331
FL200	33	11.79	106	35.17	4664.0	979146.80	3.81	-155.26	-151.09	1.37	0.35	1.58	0.00	1.93	-154.70	-150.54	FL200
MISS1	33	11.97	106	16.81	4104.0	979158.24	-37.64	-177.62	-173.95	1.28	0.00	-0.05	0.00	-0.05	-178.94	-175.24	MISS1
X-238	33	12.04	106	12.97	4144.7	979154.56	-37.60	-178.96	-175.25	1.29	0.00	0.62	0.00	0.62	-180.22	-176.48	X-238
H-4	33	12.06	106	3.32	4501.0	979127.91	-30.77	-184.29	-180.26	1.34	0.00	0.59	0.00	0.59	-185.04	-180.99	H-4
TOWER	33	12.12	106	29.45	4106.3	979160.71	-35.17	-175.22	-171.55	1.28	0.02	0.47	0.00	0.49	-176.00	-172.31	TOWER
D-647	33	12.20	106	27.61	4026.5	979163.85	-39.45	-176.85	-173.25	1.26	0.00	0.28	0.00	0.28	-177.83	-174.21	D-647
T-526	33	12.42	106	35.53	4851.0	979137.59	11.31	-154.14	-149.80	1.39	2.20	1.74	0.00	3.94	-151.59	-147.32	T-526
MAC	33	12.47	106	30.18	4192.6	979159.03	-29.21	-172.21	-168.46	1.29	0.05	0.60	0.00	0.65	-172.85	-169.09	MAC
P-22	33	12.49	106	3.36	4492.4	979128.59	-31.50	-184.72	-180.70	1.34	0.03	0.59	0.00	0.62	-185.44	-181.40	P-22
4F924	33	12.50	106	19.00	4095.6	979156.10	-41.31	-180.99	-177.33	1.28	0.00	-0.06	0.00	-0.06	-182.33	-178.63	4F924
W-238	33	12.60	106	13.81	4140.1	979155.87	-37.49	-178.69	-174.99	1.28	0.00	0.00	0.00	0.00	-179.98	-176.24	W-238
TS263	33	12.70	106	23.49	4052.8	979154.27	-47.44	-185.66	-182.04	1.27	0.00	0.02	0.00	0.02	-186.91	-183.26	TS263
T-655	33	12.72	106	27.85	4051.2	979164.49	-37.39	-175.57	-171.94	1.27	0.02	0.36	0.00	0.38	-176.46	-172.81	T-655
L-331	33	12.76	106	16.63	4119.7	979156.77	-38.73	-179.24	-175.55	1.28	0.00	-0.05	0.00	-0.05	-180.57	-176.85	L-331
M-331	33	13.11	106	15.62	4119.4	979157.74	-38.27	-178.77	-175.09	1.28	0.00	-0.03	0.00	-0.03	-180.08	-176.36	M-331
V-238	33	13.46	106	15.15	4132.2	979156.93	-38.36	-179.30	-175.60	1.28	0.00	-0.02	0.00	-0.02	-180.60	-176.87	V-238
TS460	33	13.65	106	21.96	4071.5	979156.85	-44.41	-183.28	-179.63	1.27	0.00	-0.01	0.00	-0.01	-184.55	-180.88	TS460
D-606	33	13.70	106	22.64	4063.3	979156.87	-45.23	-183.81	-180.18	1.27	0.00	0.02	0.00	0.02	-185.07	-181.40	D-606
T-628	33	13.77	106	23.54	4052.5	979158.10	-45.11	-183.33	-179.71	1.27	0.00	0.07	0.00	0.07	-184.53	-180.88	T-628
H-3	33	13.78	106	3.64	4466.0	979129.81	-34.54	-186.86	-182.87	1.34	0.00	0.58	0.00	0.58	-187.62	-183.60	H-3
BMX48	33	13.80	106	43.50	6532.6	979033.40	63.28	-159.52	-153.68	1.51	0.25	1.58	0.00	1.83	-159.21	-153.38	BMX48
SKILL	33	13.80	106	38.30	7609.0	978955.30	86.34	-173.18	-166.37	1.50	9.63	7.66	0.00	17.29	-157.38	-150.99	SKILL
H-238	33	13.84	106	26.65	4036.1	979165.95	-38.90	-176.56	-172.95	1.27	0.00	0.35	0.00	0.35	-177.47	-173.84	H-238
4F940	33	13.90	106	23.90	4053.6	979159.20	-44.09	-182.34	-178.72	1.27	0.00	0.09	0.00	0.09	-183.52	-179.87	4F940
U-238	33	14.05	106	15.97	4124.3	979157.70	-39.15	-179.81	-176.13	1.28	0.00	-0.03	0.00	-0.03	-181.13	-177.41	U-238
D-590	33	14.10	106	21.64	4079.4	979158.33	-42.81	-181.94	-178.29	1.27	0.00	-0.01	0.00	-0.01	-183.22	-179.54	D-590
BMA49	33	14.20	106	49.30	5650.9	979087.00	33.46	-159.28	-154.22	1.47	0.10	0.67	0.00	0.77	-159.98	-154.91	BMA49
B4471	33	14.32	106	3.66	4468.8	979130.44	-34.39	-186.81	-182.81	1.34	0.08	0.59	0.00	0.67	-187.47	-183.46	B4471
T-238	33	14.58	106	16.78	4126.3	979157.23	-40.16	-180.89	-177.21	1.28	0.00	-0.04	0.00	-0.04	-182.21	-178.49	T-238
G-238	33	14.63	106	26.18	4051.8	979165.62	-38.84	-177.04	-173.41	1.27	0.02	0.39	0.00	0.41	-177.90	-174.25	G-238
RV-17	33	14.69	106	3.70	4474.4	979130.69	-34.13	-186.73	-182.73	1.34	0.04	0.58	0.00	0.62	-187.45	-183.43	RV-17
RACK	33	14.81	106	30.81	4579.7	979145.32	-9.76	-165.96	-161.87	1.36	0.30	1.36	0.00	1.66	-165.66	-161.57	RACK

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

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STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
D1007	33 14.82	106 24.19	4058.7	979161.55	-42.53	-180.96	-177.33	1.27	0.00	0.16	0.00	0.16	-182.07	-178.41	D1007
HOLL1	33 14.95	106 14.24	4178.8	979153.32	-39.65	-182.17	-178.43	1.29	0.00	-0.00	0.00	-0.00	-183.47	-179.70	HOLL1
T-431	33 14.95	106 20.17	4120.1	979158.52	-39.97	-180.49	-176.80	1.28	0.00	-0.03	0.00	-0.03	-181.80	-179.08	T-431
F-13	33 15.00	106 19.86	4112.0	979159.36	-39.96	-180.20	-176.52	1.28	0.00	-0.03	0.00	-0.03	-181.51	-177.80	F-13
CO-11	33 15.05	106 17.47	4130.9	979157.05	-40.56	-181.45	-177.76	1.28	0.00	-0.04	0.00	-0.04	-182.77	-179.04	CO-11
D-771	33 15.12	106 25.15	4045.9	979164.97	-40.73	-178.72	-175.10	1.27	0.02	0.30	0.00	0.32	-179.67	-176.03	D-771
DENAZ	33 15.17	106 19.44	4117.4	979158.79	-40.25	-180.68	-177.00	1.28	0.00	-0.03	0.00	-0.03	-181.99	-178.28	DENAZ
F-10	33 15.26	106 17.12	4140.0	979156.98	-40.06	-181.26	-177.56	1.28	0.00	-0.04	0.00	-0.04	-182.59	-178.85	F-10
F-12	33 15.48	106 18.20	4125.0	979157.25	-41.51	-182.20	-178.51	1.28	0.00	-0.04	0.00	-0.04	-183.51	-179.79	F-12
D1008	33 15.59	106 21.61	4091.2	979161.16	-40.93	-180.46	-176.81	1.28	0.00	0.04	0.00	0.04	-181.70	-178.01	D1008
F-14	33 15.75	106 21.66	4095.0	979161.16	-40.79	-180.46	-176.79	1.28	0.00	0.04	0.00	0.04	-181.69	-178.00	F-14
MAL-2	33 15.75	106 18.31	4146.3	979156.19	-40.94	-182.35	-178.65	1.29	0.00	-0.04	0.00	-0.04	-183.67	-179.93	MAL-2
D-824	33 15.78	106 16.15	4150.9	979156.27	-40.47	-182.04	-178.33	1.29	0.00	-0.02	0.00	-0.02	-183.35	-179.60	D-824
Q-22	33 15.91	106 3.93	4486.5	979132.56	-32.80	-185.82	-181.81	1.34	0.03	0.56	0.00	0.59	-186.58	-182.55	Q-22
F-11	33 16.04	106 18.20	4138.0	979157.05	-41.26	-182.39	-178.69	1.28	0.00	-0.03	0.00	-0.03	-183.71	-179.97	F-11
MALAZ	33 16.13	106 15.06	4170.3	979154.39	-41.01	-183.24	-179.51	1.29	0.00	-0.01	0.00	-0.01	-184.54	-180.78	MALAZ
E-238	33 16.21	106 25.18	4107.9	979164.02	-37.35	-177.46	-173.79	1.28	0.01	0.41	0.00	0.42	-178.32	-174.63	E-238
TS408	33 16.21	106 23.21	4086.2	979161.35	-41.88	-181.31	-177.65	1.28	0.00	0.15	0.00	0.15	-182.43	-178.75	TS408
4F910	33 16.60	106 12.50	4253.3	979147.20	-41.04	-186.11	-182.30	1.30	0.00	0.05	0.00	0.05	-187.36	-183.53	4F910
F-15	33 16.64	106 23.39	4074.0	979163.93	-41.22	-180.17	-176.53	1.27	0.00	0.21	0.00	0.21	-181.24	-177.57	F-15
T-679	33 16.90	106 15.55	4171.9	979154.70	-41.61	-183.90	-180.17	1.29	0.06	-0.01	0.00	0.05	-185.14	-181.38	T-679
CO-4	33 16.99	106 13.37	4227.3	979149.38	-41.84	-186.02	-182.24	1.30	0.00	0.04	0.00	0.04	-187.29	-183.47	CO-4
F-16	33 17.00	106 24.58	4121.0	979165.74	-35.49	-176.05	-172.36	1.28	0.00	0.40	0.00	0.40	-176.93	-173.22	F-16
H-1	33 17.20	106 4.21	4522.0	979136.02	-27.79	-182.02	-177.98	1.35	0.02	0.52	0.00	0.54	-182.82	-178.76	H-1
LU-39	33 17.23	106 21.80	4107.6	979161.73	-41.08	-181.18	-177.50	1.28	0.00	0.10	0.00	0.10	-182.35	-178.68	LU-39
T-237	33 17.33	106 18.75	4146.0	979155.91	-43.43	-184.83	-181.13	1.29	0.00	-0.01	0.00	-0.01	-186.13	-182.39	T-237
CO-5	33 17.33	106 12.44	4254.6	979146.66	-42.47	-187.58	-183.77	1.30	0.00	0.04	0.00	0.04	-188.84	-185.01	CO-5
D-830	33 17.58	106 21.34	4113.8	979161.25	-41.46	-181.77	-178.09	1.28	0.00	0.09	0.00	0.09	-182.96	-179.25	D-830
C-238	33 17.76	106 24.22	4125.3	979169.41	-32.47	-173.17	-169.48	1.28	0.01	0.44	0.00	0.45	-174.00	-170.29	C-238
CO-6	33 17.77	106 11.60	4269.3	979144.96	-43.39	-189.01	-185.19	1.31	0.00	0.06	0.00	0.06	-190.25	-186.40	CO-6
CO-7	33 17.79	106 10.65	4292.0	979141.51	-44.74	-191.12	-187.28	1.31	0.00	0.11	0.00	0.11	-192.32	-188.45	CO-7
F-17	33 17.91	106 26.44	4363.0	979159.61	-20.13	-168.94	-165.03	1.32	0.02	1.01	0.00	1.03	-169.23	-165.32	F-17
SAL-2	33 17.92	106 31.92	8941.6	978886.02	106.58	-198.39	-190.39	1.37	18.34	24.78	0.00	40.10	-159.66	-152.68	SAL-2
D-828	33 17.97	106 19.25	4145.0	979156.05	-44.27	-185.64	-181.93	1.29	0.00	0.01	0.00	0.01	-186.92	-183.18	D-828
D-829	33 17.98	106 20.79	4114.5	979159.65	-43.55	-183.88	-180.20	1.28	0.00	0.06	0.00	0.06	-185.10	-181.38	D-829
S-237	33 18.05	106 19.06	4150.9	979155.58	-44.29	-185.87	-182.15	1.29	0.00	0.00	0.00	0.00	-187.15	-183.40	S-237
CO-10	33 18.09	106 9.79	4317.6	979143.37	-40.89	-188.14	-184.28	1.31	0.00	0.14	0.00	0.14	-189.32	-185.43	CO-10
WIN 1	33 18.20	106 50.40	5284.2	979112.90	19.36	-160.86	-156.14	1.44	0.00	0.28	0.00	0.28	-162.03	-157.27	WIN 1
RV-18	33 18.21	106 4.29	4535.1	979139.68	-24.29	-178.97	-174.92	1.35	0.02	0.52	0.00	0.54	-179.78	-175.70	RV-18
D-827	33 18.28	106 21.23	4109.9	979160.65	-43.40	-183.57	-179.89	1.28	0.00	0.10	0.00	0.10	-184.75	-181.04	D-827
CO-8	33 18.32	106 8.83	4354.3	979139.12	-42.00	-190.51	-186.62	1.32	0.00	0.17	0.00	0.17	-191.66	-187.74	CO-8
D-825	33 18.44	106 20.01	4136.8	979156.82	-44.92	-186.01	-182.31	1.28	0.00	0.03	0.00	0.03	-187.26	-183.53	D-825
CO-9	33 18.47	106 7.85	4386.2	979138.68	-39.65	-189.25	-185.33	1.33	0.00	0.23	0.00	0.23	-190.35	-186.40	CO-9
D-826	33 18.59	106 20.48	4139.1	979157.41	-44.32	-185.49	-181.79	1.28	0.00	0.06	0.00	0.06	-186.72	-182.98	D-826
F-1	33 18.79	106 5.04	4522.0	979143.56	-22.45	-176.64	-172.63	1.35	0.02	0.44	0.00	0.46	-177.56	-173.50	F-1
R-237	33 18.90	106 18.73	4162.1	979154.84	-45.15	-187.11	-183.39	1.29	0.00	0.01	0.00	0.01	-188.39	-184.63	R-237
CURT	33 19.03	106 6.91	4445.5	979140.10	-33.43	-185.05	-181.08	1.34	0.08	0.29	0.00	0.37	-186.01	-182.01	CURT
RUS8	33 19.08	106 6.07	4475.7	979142.20	-28.56	-181.21	-177.21	1.34	0.01	0.37	0.00	0.38	-182.17	-178.15	RUS8
F-3	33 19.13	106 4.94	4739.0	979139.16	-6.92	-168.55	-164.31	1.38	0.05	0.48	0.00	0.53	-169.40	-165.14	F-3
B4570	33 19.30	106 4.50	4567.8	979144.40	-18.01	-173.80	-169.71	1.38	0.02	0.50	0.00	0.52	-174.63	-170.82	B4570

SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
F-18	33 19.52	106 28.18	5000.0	979134.11	12.03	-158.50	-154.03	1.41	3.00	1.52	0.00	4.52	-155.39	-151.00	F-18
925AZ	33 19.70	106 18.89	4169.3	979154.76	-45.66	-187.86	-184.14	1.29	0.00	0.02	0.00	0.02	-189.13	-185.37	925AZ
TS345	33 19.73	106 23.67	4178.5	979166.66	-32.94	-175.45	-171.72	1.24	0.05	0.60	0.00	0.65	-176.09	-172.34	TS345
R-331	33 19.80	106 7.06	4417.6	979146.24	-30.98	-181.65	-177.70	1.33	0.00	0.30	0.00	0.30	-182.68	-178.70	R-331
4F925	33 19.96	106 18.65	4198.8	979153.55	-44.46	-187.67	-183.91	1.29	0.00	0.02	0.00	0.02	-188.95	-185.16	4F925
FALL	33 20.00	106 0.00	5104.0	979112.50	-0.47	-174.55	-169.98	1.42	0.20	1.03	0.00	1.23	-174.74	-170.17	FALL
T8935	33 20.20	106 5.03	4546.9	979148.96	-16.66	-171.73	-167.67	1.35	0.03	0.45	0.00	0.48	-172.60	-168.51	T8935
Z-237	33 20.37	106 23.88	4238.2	979164.73	-30.14	-174.69	-170.90	1.30	0.03	0.67	0.00	0.70	-175.29	-171.49	Z-237
D-928	33 20.45	106 21.13	4142.0	979162.02	-42.01	-183.28	-179.57	1.29	0.01	0.16	0.00	0.17	-184.40	-180.66	D-928
D-759	33 20.59	106 18.04	4193.6	979154.25	-45.12	-188.15	-184.40	1.29	0.00	0.02	0.00	0.02	-189.42	-185.64	D-759
D-929	33 20.75	106 20.80	4150.6	979161.09	-42.54	-184.11	-180.40	1.29	0.01	0.13	0.00	0.14	-185.26	-181.52	D-929
F-4	33 20.76	106 0.32	4999.0	979122.11	-1.78	-172.28	-167.81	1.41	0.30	1.05	0.00	1.35	-172.34	-167.87	F-4
S-331	33 20.77	106 7.25	4395.6	979153.45	-26.90	-176.92	-172.98	1.33	0.00	0.31	0.00	0.31	-177.94	-173.98	S-331
FL-48	33 20.83	106 8.67	4345.5	979149.34	-36.08	-184.29	-180.41	1.32	0.00	0.21	0.00	0.21	-185.40	-181.40	FL-48
D-755	33 20.84	106 23.61	4267.7	979164.05	-38.70	-174.26	-170.44	1.31	0.04	0.65	0.00	0.69	-174.87	-171.04	D-755
H-5	33 20.89	106 4.90	4587.0	979151.30	-11.50	-167.95	-163.85	1.36	0.01	0.48	0.00	0.49	-168.81	-164.69	H-5
WIN13	33 20.90	106 44.10	5452.1	979100.70	19.21	-166.74	-161.87	1.46	0.00	0.47	0.00	0.47	-167.73	-162.82	WIN13
CU-13	33 21.23	106 22.22	4204.4	979164.05	-35.19	-178.59	-174.83	1.30	0.03	0.30	0.00	0.33	-179.55	-175.77	CU-13
T-331	33 21.24	106 8.10	4355.6	979154.63	-30.41	-178.96	-175.07	1.32	0.00	0.26	0.00	0.26	-180.02	-176.10	T-331
D-930	33 21.27	106 20.72	4168.0	979161.02	-41.70	-183.85	-180.13	1.29	0.01	0.13	0.00	0.14	-185.01	-181.25	D-930
WIN10	33 21.50	106 51.30	4975.8	979134.60	7.51	-162.20	-157.75	1.41	0.00	0.01	0.00	0.01	-163.59	-159.11	WIN10
D-386	33 21.57	106 19.40	4188.6	979157.59	-43.61	-186.46	-182.72	1.29	0.00	0.06	0.00	0.06	-187.70	-183.92	D-386
ARMY7	33 21.59	106 17.11	4236.5	979154.32	-42.40	-186.89	-183.10	1.30	0.00	0.01	0.00	0.01	-188.18	-184.36	ARMY7
CO-12	33 21.62	106 23.02	4277.2	979165.03	-27.91	-173.79	-169.96	1.31	0.05	0.47	0.00	0.52	-174.57	-170.73	CO-12
D-659	33 21.62	106 15.65	4264.1	979153.94	-40.23	-186.66	-181.85	1.31	0.00	0.01	0.00	0.01	-186.96	-183.11	D-659
4F968	33 21.70	106 35.50	5460.8	979104.80	-22.99	-163.25	-158.36	1.46	0.30	0.68	0.00	0.98	-163.72	-158.83	4F968
U-331	33 21.93	106 8.55	4359.9	979156.16	-29.43	-178.13	-174.23	1.32	0.00	0.24	0.00	0.24	-179.22	-175.29	U-331
CO-17	33 22.02	106 27.61	4766.1	979145.67	-1.86	-164.41	-160.15	1.38	3.77	1.09	0.00	4.86	-160.93	-156.76	CO-17
CO-16	33 22.07	106 26.83	4673.2	979149.30	-7.03	-166.42	-162.24	1.37	5.18	1.18	0.00	6.36	-161.43	-157.38	CO-16
CO-18	33 22.10	106 28.54	4856.3	979143.20	4.04	-161.59	-157.25	1.39	0.84	1.10	0.00	1.94	-161.04	-156.71	CO-18
SH-70	33 22.14	106 23.92	4381.2	979164.46	-19.42	-168.84	-164.93	1.33	0.00	0.78	0.00	0.78	-169.39	-165.46	SH-70
CU-15	33 22.22	106 25.88	4571.2	979157.40	-8.72	-164.63	-160.54	1.35	2.91	0.92	0.00	3.83	-162.16	-158.13	CU-15
CO-14	33 22.27	106 24.93	4480.0	979163.56	-11.21	-164.01	-160.00	1.34	0.59	0.94	0.00	1.53	-163.82	-159.82	CO-14
MIKEG	33 22.32	106 17.80	4239.5	979155.37	-42.08	-186.67	-182.88	1.30	0.00	0.02	0.00	0.02	-187.95	-184.13	MIKEG
JANE	33 22.35	106 29.50	4966.2	979137.40	8.23	-161.15	-156.71	1.41	1.75	1.05	0.00	2.80	-159.76	-155.36	JANE
RV-19	33 22.51	106 4.33	4696.2	979151.40	-3.37	-163.55	-159.35	1.37	0.04	0.56	0.00	0.60	-164.32	-160.10	RV-19
YB-41	33 22.60	106 20.67	4194.5	979162.79	-39.28	-182.34	-178.59	1.29	0.01	0.15	0.00	0.16	-183.47	-179.69	YB-41
YB-40	33 22.68	106 20.95	4201.8	979163.37	-38.12	-181.43	-177.67	1.30	0.02	0.18	0.00	0.20	-182.53	-178.74	YB-40
H-6	33 22.70	106 4.55	4686.0	979153.67	-2.33	-162.15	-157.96	1.37	0.03	0.54	0.00	0.57	-162.98	-158.74	H-6
V-331	33 22.78	106 8.50	4386.5	979159.77	-24.49	-174.10	-170.18	1.33	0.00	0.25	0.00	0.25	-175.18	-171.23	V-331
YB-39	33 22.86	106 21.51	4206.7	979164.84	-36.44	-179.91	-176.15	1.30	0.04	0.25	0.00	0.29	-180.92	-177.13	YB-39
YB-38	33 22.97	106 21.91	4217.8	979165.32	-35.07	-178.92	-175.15	1.30	0.05	0.33	0.00	0.38	-179.88	-176.05	YB-38
YB-37	33 23.13	106 22.40	4238.8	979168.63	-33.00	-177.58	-173.79	1.30	0.06	0.44	0.00	0.50	-178.38	-174.57	YB-37
YB-36	33 23.21	106 22.65	4258.8	979165.02	-31.85	-177.10	-173.29	1.31	0.08	0.52	0.00	0.60	-177.80	-173.98	YB-36
YB-35	33 23.30	106 23.29	4293.6	979164.96	-28.76	-175.20	-171.36	1.31	0.15	0.67	0.00	0.82	-175.69	-171.84	YB-35
D-814	33 23.35	106 19.37	4257.2	979158.59	-38.62	-183.82	-180.01	1.30	0.00	0.07	0.00	0.07	-185.08	-181.21	D-814
YB-34	33 23.30	106 23.74	4370.1	979163.72	-22.89	-171.94	-168.03	1.32	0.30	0.76	0.00	1.06	-172.21	-168.39	YB-34
D-145	33 23.38	106 24.36	4614.5	979154.40	-9.26	-166.64	-162.92	1.36	1.75	0.82	0.00	2.57	-165.44	-161.34	D-145
K-237	33 23.40	106 18.30	4256.6	979157.57	-39.76	-184.94	-181.14	1.30	0.00	0.04	0.00	0.04	-186.20	-182.36	K-237
YB-33	33 23.42	106 24.14	4501.0	979159.00	-15.39	-168.90	-164.87	1.34	0.63	0.80	0.00	1.43	-168.82	-164.79	YB-33

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS	GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
V-237	33 23.69	106 22.61	4293.3	979163.70	-30.59	-177.02	-173.18	1.31	0.07	0.51	0.00	0.58	-177.75	-173.89		V-237
WIN11	33 23.70	106 54.00	4805.9	979146.50	0.39	-163.52	-159.22	1.39	0.00	-0.11	0.00	-0.11	-165.02	-160.68		WIN11
GILL	33 23.71	106 8.48	4403.9	979163.07	-20.85	-171.05	-167.11	1.33	0.03	0.28	0.00	0.31	-172.07	-168.11		GILL
D107	33 23.72	106 40.43	5145.9	979119.98	5.81	-169.70	-165.10	1.43	0.00	0.21	0.00	0.21	-170.92	-166.29		D107
HAYF1	33 24.08	106 18.91	4266.1	979160.41	-36.97	-182.47	-178.66	1.31	0.00	0.06	0.00	0.06	-183.72	-179.87		HAYF1
MIKED	33 24.08	106 17.93	4276.6	979157.99	-38.41	-184.27	-180.44	1.31	0.00	0.04	0.00	0.04	-185.53	-181.68		MIKED
B4801	33 24.24	106 3.88	4799.9	979149.84	2.42	-161.29	-157.00	1.39	0.07	0.63	0.00	0.70	-161.98	-157.67		B4801
TUL N	33 24.40	106 4.16	4777.2	979151.71	1.93	-161.00	-156.73	1.38	0.05	0.59	0.00	0.64	-161.74	-157.45		TUL N
X-331	33 24.42	106 8.73	4401.2	979165.28	-19.87	-169.98	-166.05	1.34	0.03	0.28	0.00	0.31	-171.00	-167.04		X-331
BASIN	33 24.56	106 20.95	4306.7	979162.97	-31.26	-178.15	-174.30	1.31	0.01	0.17	0.00	0.18	-179.28	-175.40		BASIN
D-237	33 24.78	106 21.77	4332.7	979163.83	-28.26	-176.03	-172.16	1.32	0.02	0.27	0.00	0.29	-177.06	-173.16		D-237
H-237	33 24.91	106 19.32	4304.8	979162.18	-32.71	-179.54	-175.69	1.31	0.00	0.08	0.00	0.08	-180.77	-176.89		H-237
G-237	33 25.10	106 20.04	4333.0	979162.18	-30.33	-178.11	-174.24	1.32	0.01	0.10	0.00	0.11	-179.31	-175.41		G-237
Y-331	33 25.20	106 9.06	4417.3	979166.03	-18.69	-169.35	-165.40	1.33	0.05	0.25	0.00	0.30	-170.38	-166.41		Y-331
RV-20	33 25.38	106 3.70	4872.7	979146.70	6.55	-159.65	-155.29	1.40	0.09	0.64	0.00	0.73	-160.31	-155.93		RV-20
ROSE	33 25.80	105 59.30	7127.1	978987.60	56.76	-186.32	-179.95	1.51	11.53	6.05	0.00	17.58	-170.26	-164.31		ROSE
PR290	33 25.88	106 21.73	4410.7	979161.97	-24.31	-174.74	-170.80	1.33	0.03	0.22	0.00	0.25	-175.82	-171.85		PR290
TS857	33 25.94	106 18.68	4363.2	979162.79	-28.04	-178.85	-172.95	1.32	0.01	0.07	0.00	0.08	-178.09	-174.16		TS857
Z-331	33 26.00	106 9.27	4447.5	979165.39	-17.60	-169.29	-165.31	1.34	1.50	0.26	0.00	1.76	-168.86	-164.90		Z-331
WIN 9	33 26.40	106 48.60	4736.2	979152.40	-4.00	-165.53	-161.30	1.38	0.00	-0.09	0.00	-0.09	-167.01	-162.73		WIN 9
4F926	33 26.51	106 18.27	4395.0	979162.94	-25.69	-175.59	-171.66	1.33	0.00	0.08	0.00	0.08	-176.84	-172.88		4F926
PHILL	33 26.66	106 7.99	5294.3	979117.80	13.50	-167.07	-162.33	1.44	0.50	1.00	0.00	1.50	-167.01	-162.27		PHILL
D-8	33 26.70	106 8.70	4861.5	979180.20	-3.64	-162.63	-158.46	1.37	0.30	0.21	0.00	0.51	-163.48	-159.29		D-8
CU-2	33 26.78	106 3.76	4931.7	979146.50	7.95	-160.25	-155.84	1.40	0.10	0.57	0.00	0.67	-160.98	-156.55		CU-2
TS339	33 26.78	106 8.58	4681.4	979159.02	-3.06	-162.73	-158.54	1.37	0.30	0.22	0.00	0.52	-163.58	-159.37		TS339
DOLL	33 26.86	106 21.36	4503.9	979159.21	-19.67	-173.28	-169.25	1.34	0.02	0.16	0.00	0.18	-174.45	-170.39		DOLL
4F984	33 26.90	106 41.20	4817.2	979146.00	-3.48	-167.78	-163.47	1.39	0.00	-0.02	0.00	-0.02	-169.19	-164.84		4F984
TS862	33 27.10	106 16.28	4433.1	979157.39	-28.48	-179.67	-175.71	1.33	0.00	0.07	0.00	0.07	-180.94	-176.94		TS862
A-237	33 27.27	106 22.19	4546.6	979158.49	-16.94	-172.01	-167.94	1.35	0.03	0.21	0.00	0.24	-173.11	-169.02		A-237
D-332	33 27.67	106 9.06	4507.2	979164.59	-15.10	-168.82	-164.79	1.34	2.50	0.22	0.00	2.72	-167.48	-163.46		D-332
T-660	33 28.19	106 14.09	4480.0	979158.35	-24.62	-177.41	-173.41	1.34	0.00	0.08	0.00	0.08	-178.64	-174.64		T-660
G-245	33 28.34	106 23.05	4705.7	979153.10	-8.86	-169.35	-165.14	1.37	0.06	0.26	0.00	0.32	-170.41	-166.17		G-245
TS826	33 28.47	106 16.30	4553.8	979162.00	-14.42	-169.73	-165.66	1.35	0.01	0.09	0.00	0.10	-170.98	-166.88		TS826
TS941	33 28.47	106 15.75	4504.3	979159.48	-21.59	-175.22	-171.19	1.34	0.01	0.09	0.00	0.10	-176.46	-172.40		TS941
C-332	33 28.55	106 8.99	4516.1	979162.65	-17.42	-171.45	-167.41	1.35	2.01	0.22	0.00	2.23	-170.56	-166.55		C-332
D-892	33 28.75	106 23.53	4774.9	979151.91	-4.11	-166.96	-162.69	1.38	0.09	0.31	0.00	0.40	-167.95	-163.65		D-892
F-234	33 29.01	106 5.23	4852.7	979159.65	10.59	-154.92	-150.58	1.39	0.05	0.36	0.00	0.41	-155.91	-151.54		F-234
B5024	33 29.01	106 3.21	5023.0	979150.52	17.46	-153.85	-149.36	1.41	0.05	0.52	0.00	0.57	-154.69	-150.14		B5024
E-234	33 29.04	106 4.19	4935.0	979155.48	14.11	-154.20	-149.79	1.40	0.02	0.43	0.00	0.45	-155.16	-150.72		E-234
B-332	33 29.15	106 8.34	4973.2	979159.83	-15.70	-171.68	-167.59	1.35	2.00	0.23	0.00	2.23	-170.80	-166.74		B-332
TS915	33 29.17	106 7.99	4602.3	979160.19	-12.64	-169.60	-165.49	1.36	0.20	0.25	0.00	0.45	-170.52	-166.38		TS915
X-236	33 29.34	106 23.95	4845.8	979150.41	0.18	-165.09	-160.76	1.39	0.10	0.36	0.00	0.46	-166.02	-161.67		X-236
REDHI	33 29.40	106 16.80	4826.3	979145.00	-7.09	-171.70	-167.38	1.39	0.02	0.18	0.00	0.20	-172.88	-168.54		REDHI
G-234	33 29.46	106 6.09	4744.1	979164.21	4.31	-157.49	-153.25	1.38	0.03	0.30	0.00	0.33	-158.84	-154.27		G-234
W-234	33 29.50	106 19.13	4629.9	979155.66	-15.03	-172.94	-168.80	1.36	0.03	0.21	0.00	0.24	-174.06	-169.89		W-234
TS866	33 29.52	106 18.67	4667.3	979156.27	-10.93	-170.12	-165.94	1.37	0.03	0.19	0.00	0.24	-171.25	-167.05		TS866
TS870	33 29.60	106 18.25	4686.7	979155.23	-10.26	-170.10	-165.91	1.37	0.05	0.19	0.00	0.24	-171.24	-167.02		TS870
A-332	33 29.61	106 7.51	4611.9	979161.71	-10.82	-168.12	-164.00	1.36	1.00	0.25	0.00	1.25	-168.23	-164.10		A-332
TS801	33 29.62	106 14.94	4580.4	979157.56	-17.95	-174.17	-170.07	1.36	0.05	0.12	0.00	0.17	-175.36	-171.23		TS801
T-234	33 29.68	106 16.59	4673.2	979153.09	-13.78	-173.16	-168.99	1.37	0.06	0.15	0.00	0.21	-174.32	-170.11		T-234

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

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STATION	LATITUDE	LONGITUDE	ELEV	OBS	GNAV	F.A.	S.B.1	S.B.2	CC	TC	TER (MEAN)	TOT	C.B.1	C.B.2	ACC	STA	
B4633	33	29.68	106	19.84	4630.9	979156.12	-14.72	-172.67	-168.53	1.36	0.05	0.24	0.00	0.29	-173.74	-169.57	B4633
GREAS	33	29.70	106	18.60	4724.6	979153.60	-8.46	-169.60	-166.38	1.38	0.10	0.20	0.00	0.30	-170.68	-166.43	GREAS
GO-94	33	29.81	106	20.52	4646.6	979156.55	-13.00	-171.48	-167.32	1.36	0.05	0.26	0.00	0.31	-172.54	-168.35	GO-94
Y-342	33	29.93	106	2.87	5024.9	979152.63	18.48	-152.90	-148.41	1.41	0.01	0.51	0.00	0.52	-153.80	-149.28	Y-342
S-234	33	30.03	106	15.68	4632.9	979154.84	-16.30	-174.31	-170.17	1.36	0.05	0.16	0.00	0.21	-175.47	-171.30	S-234
R-234	33	30.09	106	14.58	4604.0	979157.73	-16.21	-173.24	-169.12	1.36	0.01	0.13	0.00	0.14	-174.46	-170.31	R-234
W-236	33	30.10	106	24.58	4966.5	979144.37	4.49	-164.90	-160.46	1.41	1.50	0.46	0.00	1.96	-164.34	-159.91	W-236
H-234	33	30.12	106	6.73	4643.4	979165.22	-5.06	-163.43	-159.28	1.36	0.02	0.29	0.00	0.31	-164.48	-160.30	H-234
Y-234	33	30.14	106	21.85	4721.1	979158.28	-4.78	-165.80	-161.58	1.38	0.02	0.29	0.00	0.31	-166.87	-162.62	Y-234
J-234	33	30.29	106	7.76	4574.5	979160.55	-16.44	-172.46	-168.37	1.35	0.01	0.24	0.00	0.25	-173.57	-169.45	J-234
FL146	33	30.30	106	13.42	4583.0	979159.34	-16.87	-173.18	-169.08	1.36	0.01	0.12	0.00	0.13	-174.40	-170.27	FL146
U-323	33	30.33	106	8.79	4562.0	979159.24	-18.98	-174.58	-170.50	1.35	0.01	0.20	0.00	0.21	-175.71	-171.61	U-323
TS873	33	30.37	106	12.79	4580.4	979158.98	-17.57	-173.79	-169.69	1.36	0.00	0.12	0.00	0.12	-175.03	-170.90	TS873
Z-234	33	30.48	106	22.80	4785.7	979154.70	-2.70	-165.92	-161.65	1.38	0.03	0.33	0.00	0.36	-166.95	-162.65	Z-234
N-234	33	30.49	106	11.52	4564.0	979159.60	-18.66	-174.32	-170.24	1.35	0.00	0.13	0.00	0.13	-175.54	-171.43	N-234
Z-319	33	30.51	106	10.41	4539.4	979159.91	-20.69	-175.51	-171.45	1.35	0.00	0.15	0.00	0.15	-176.71	-172.62	Z-319
U-22	33	30.67	106	2.49	5078.1	979151.80	21.62	-151.57	-147.03	1.42	0.03	0.51	0.00	0.54	-152.46	-147.89	U-22
L-234	33	30.74	106	9.46	4540.3	979160.31	-20.52	-175.38	-171.32	1.35	0.00	0.18	0.00	0.18	-176.54	-172.45	L-234
K-236	33	30.81	106	25.18	5090.9	979136.62	7.45	-166.18	-161.63	1.42	1.30	0.55	0.00	1.85	-165.75	-161.21	K-236
F-343	33	31.34	106	1.86	5089.6	979153.87	23.85	-149.74	-145.19	1.42	0.03	0.52	0.00	0.55	-150.62	-146.04	F-343
BM119	33	31.50	106	59.60	4720.7	979151.50	-13.43	-174.43	-170.21	1.38	0.00	-0.15	0.00	-0.15	-175.96	-171.70	BM119
D-9	33	31.60	106	26.60	5519.7	979113.20	23.24	-165.01	-160.08	1.46	1.20	0.70	0.00	1.90	-164.58	-159.65	D-9
BEN	33	31.85	106	25.33	5078.4	979140.48	8.70	-164.51	-159.97	1.42	1.20	0.52	0.00	1.72	-164.21	-159.68	BEN
G-343	33	31.87	106	1.36	5119.4	979153.12	25.16	-149.44	-144.87	1.42	0.03	0.52	0.00	0.55	-150.31	-145.71	G-343
H-343	33	32.40	106	0.85	5145.0	979151.38	25.09	-150.39	-145.79	1.43	0.04	0.53	0.00	0.57	-151.24	-146.62	H-343
4F912	33	32.50	106	10.70	4648.9	979156.70	-16.36	-174.92	-170.76	1.37	0.00	0.16	0.00	0.16	-176.13	-171.94	4F912
GAP	33	32.79	106	26.18	5383.5	979122.60	18.19	-165.42	-160.61	1.45	0.40	0.53	0.00	0.93	-165.94	-161.12	GAP
D110	33	33.10	106	32.26	4717.8	979142.41	-25.01	-185.92	-181.70	1.37	0.00	0.11	0.00	0.11	-187.18	-182.93	D110
J-343	33	33.10	106	0.21	5172.2	979150.62	25.92	-150.49	-145.86	1.43	0.04	0.53	0.00	0.57	-151.34	-146.70	J-343
GP-1	33	33.32	106	20.76	5210.9	979130.75	9.38	-168.34	-163.69	1.43	0.35	0.47	0.00	0.82	-168.96	-164.29	GP-1
A-327	33	33.35	106	32.29	4692.2	979145.16	-25.01	-185.05	-180.85	1.37	0.00	0.10	0.00	0.10	-186.32	-182.09	A-327
JAN	33	33.49	106	11.53	4759.5	979152.23	-11.81	-174.14	-169.88	1.38	0.02	0.17	0.00	0.19	-175.33	-171.04	JAN
V-22	33	33.73	105	59.41	5199.8	979150.75	27.77	-149.58	-144.93	1.43	0.05	0.55	0.00	0.60	-150.41	-145.74	V-22
D111	33	33.74	106	35.62	4725.0	979148.55	-19.08	-180.23	-176.01	1.38	0.00	-0.10	0.00	-0.10	-181.71	-177.45	D111
L-332	33	33.79	106	34.73	4672.9	979146.66	-25.94	-185.31	-181.13	1.37	0.00	-0.07	0.00	-0.07	-186.75	-182.53	L-332
M-332	33	33.85	106	33.73	4673.5	979145.39	-27.23	-186.63	-182.45	1.37	0.00	-0.03	0.00	-0.03	-188.03	-183.81	M-332
N-332	33	33.90	106	32.72	4677.5	979144.62	-27.70	-187.23	-183.05	1.37	0.00	0.04	0.00	0.04	-188.56	-184.35	N-332
TS918	33	33.92	106	21.33	5191.6	979127.89	3.87	-173.19	-168.55	1.43	0.75	1.26	0.00	2.01	-172.62	-167.99	TS918
H-319	33	33.96	106	31.66	4722.1	979142.40	-25.61	-186.86	-182.64	1.38	0.00	0.11	0.00	0.11	-188.13	-183.87	H-319
GP-2	33	34.02	106	27.22	5089.2	979137.08	3.30	-170.28	-165.72	1.42	0.30	0.46	0.00	0.76	-170.94	-166.37	GP-2
D130	33	34.50	105	58.00	5157.4	979148.80	20.76	-155.14	-150.53	1.43	0.10	0.64	0.00	0.74	-155.82	-151.19	D130
BMW22	33	34.50	105	57.60	5198.3	979147.00	22.81	-154.49	-149.84	1.43	0.05	0.68	0.00	0.73	-155.19	-150.52	BMW22
G-319	33	34.52	106	30.99	4767.7	979139.45	-25.25	-187.86	-183.59	1.38	0.00	0.12	0.00	0.12	-189.12	-184.82	G-319
G-235	33	34.57	106	28.16	4985.9	979139.75	-4.50	-174.56	-170.10	1.41	0.20	0.34	0.00	0.54	-175.43	-170.95	G-235
GP-21	33	34.67	106	25.78	5429.8	979120.37	17.70	-167.49	-162.63	1.46	2.28	0.53	0.00	2.81	-166.13	-161.31	GP-21
HARRI	33	34.70	106	44.50	4734.3	979158.30	-9.79	-171.26	-167.02	1.38	0.00	-0.20	0.00	-0.20	-172.83	-168.56	HARRI
CHURC	33	34.70	106	33.70	4676.7	979143.50	-30.00	-189.51	-185.33	1.37	0.00	-0.05	0.00	-0.05	-190.92	-186.71	CHURC
TS919	33	34.72	106	22.02	5223.7	979125.80	3.69	-174.47	-169.80	1.44	0.75	1.62	0.00	2.37	-173.53	-168.89	TS919
D-875	33	34.85	106	22.76	5119.1	979135.06	2.94	-171.66	-167.08	1.42	0.75	1.50	0.00	2.25	-170.83	-166.27	D-875
D-876	33	34.88	106	22.37	5189.3	979129.13	3.57	-173.42	-168.78	1.43	0.77	1.71	0.00	2.48	-172.37	-167.76	D-876

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STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOP	C.B.1	C.B.2	ACC	STA
GUS-2	33 34.95	106 28.85	4932.0	979139.24	-10.61	-178.82	-174.41	1.40	0.03	0.26	0.00	0.29	-179.93	-178.49	GUS-2
TS849	33 35.11	106 33.62	4672.9	979142.11	-32.32	-191.69	-187.52	1.37	0.00	-0.06	0.00	-0.06	-193.12	-188.91	TS849
GP-48	33 35.13	106 34.61	4674.2	979142.74	-31.59	-191.01	-186.84	1.37	0.00	-0.09	0.00	-0.09	-192.47	-188.28	GP-48
TS525	33 35.18	106 23.41	5157.5	979137.68	8.71	-167.19	-162.58	1.43	0.65	1.48	0.00	2.13	-166.49	-161.90	TS525
GP-22	33 35.29	106 27.00	5128.6	979134.38	2.54	-172.38	-167.79	1.43	0.29	0.39	0.00	0.68	-173.12	-168.52	GP-22
F-320	33 35.37	106 12.12	4960.6	979140.66	-7.08	-176.27	-171.84	1.41	0.08	0.21	0.00	0.29	-177.38	-172.92	F-320
U-235	33 35.49	106 29.81	4833.3	979139.25	-20.63	-185.47	-181.15	1.39	0.05	0.17	0.00	0.22	-186.65	-182.30	U-235
GP-3	33 35.98	106 29.43	4857.9	979138.84	-19.41	-185.09	-180.75	1.39	0.00	0.18	0.00	0.18	-186.31	-181.93	GP-3
GP-23	33 36.12	106 27.04	5116.5	979136.60	2.47	-172.04	-167.46	1.42	0.25	0.43	0.00	0.68	-172.78	-168.18	GP-23
GP-49	33 36.34	106 33.89	4685.4	979140.62	-34.34	-194.14	-189.95	1.37	0.00	-0.08	0.00	-0.08	-195.60	-191.37	GP-49
GP-29	33 36.36	106 23.34	5381.2	979120.49	10.91	-172.62	-167.81	1.45	0.35	1.87	0.00	2.22	-171.85	-167.06	GP-29
GP-30	33 36.37	106 23.34	5380.6	979119.74	10.09	-173.42	-168.61	1.45	0.35	1.88	0.00	2.23	-172.64	-167.85	GP-30
GP-4	33 36.78	106 30.14	4806.1	979138.74	-25.48	-189.40	-185.11	1.39	0.00	0.11	0.00	0.11	-190.68	-186.35	GP-4
Y-235	33 36.88	106 29.29	4868.1	979138.23	-20.30	-186.34	-181.99	1.39	0.00	0.18	0.00	0.18	-187.56	-183.17	Y-235
4F891	33 36.90	106 4.20	5077.7	979151.10	12.24	-160.94	-156.40	1.42	0.10	0.25	0.00	0.35	-162.02	-157.45	4F891
D-10	33 37.00	106 9.40	5039.0	979141.90	-0.74	-172.60	-168.09	1.42	0.10	0.20	0.00	0.30	-173.71	-169.18	D-10
GP-24	33 37.04	106 27.07	5073.8	979138.66	-0.76	-173.81	-169.27	1.42	0.15	0.46	0.00	0.61	-174.62	-170.06	GP-24
D1040	33 37.05	106 23.94	5462.2	979118.60	15.68	-170.62	-165.74	1.46	0.31	1.59	0.00	1.90	-170.18	-165.31	D1040
FL182	33 37.36	106 24.67	5396.0	979125.00	15.42	-168.62	-163.79	1.45	0.20	1.42	0.00	1.62	-168.45	-163.63	FL182
JIM	33 37.42	106 22.06	4469.2	978909.45	90.49	-199.05	-191.46	1.42	11.05	15.37	0.00	26.42	-174.05	-167.11	JIM
H-320	33 37.43	106 13.62	5172.9	979130.16	-0.49	-176.92	-172.29	1.43	0.10	0.30	0.00	0.40	-177.94	-173.29	H-320
GP-28	33 37.53	106 24.33	5444.9	979117.51	12.29	-173.41	-168.55	1.46	0.28	1.81	0.00	2.09	-172.78	-167.93	GP-28
GP-5	33 37.54	106 30.62	4764.8	979138.86	-30.30	-192.81	-188.55	1.38	0.00	0.05	0.00	0.05	-194.14	-189.85	GP-5
Z-235	33 37.72	106 29.07	4877.9	979138.30	-20.48	-186.85	-182.49	1.40	0.00	0.20	0.00	0.20	-188.04	-183.65	Z-235
D112	33 37.77	106 12.79	5740.1	979090.23	12.43	-183.35	-178.21	1.48	2.60	0.91	0.00	3.51	-181.31	-176.23	D112
SLASH	33 37.90	106 49.10	4770.4	979167.60	-1.54	-164.24	-159.97	1.38	0.00	-0.19	0.00	-0.19	-165.81	-161.50	SLASH
GP-25	33 37.90	106 27.10	5083.0	979138.20	-1.55	-174.91	-170.37	1.42	0.10	0.47	0.00	0.57	-175.77	-171.20	GP-25
L-235	33 38.20	106 31.41	4718.8	979139.94	-34.46	-195.41	-191.19	1.37	0.00	0.02	0.00	0.02	-196.76	-192.51	L-235
K-343	33 38.25	106 22.06	4378.9	978926.95	96.47	-189.31	-181.81	1.44	10.50	13.87	0.00	24.37	-166.38	-159.48	K-343
A-236	33 38.56	106 28.94	4884.5	979137.99	-21.34	-187.93	-183.56	1.40	0.00	0.22	0.00	0.22	-189.11	-184.71	A-236
U-341	33 39.65	106 14.61	5273.9	979126.23	3.38	-176.49	-171.78	1.44	0.30	0.38	0.00	0.68	-177.25	-172.52	U-341
PS766	33 39.70	105 52.40	5429.5	979133.70	25.41	-159.77	-154.92	1.46	0.05	0.50	0.00	0.55	-160.67	-155.79	PS766
D1039	33 39.74	106 24.93	5447.8	979119.28	12.66	-173.15	-168.89	1.46	0.53	1.43	0.00	1.96	-172.65	-167.79	D1039
T-266	33 39.75	106 34.13	4708.3	979138.15	-38.00	-198.59	-194.38	1.37	0.00	-0.11	0.00	-0.11	-200.07	-195.82	T-266
4F944	33 39.79	106 22.36	4637.8	978904.98	98.07	-196.53	-188.81	1.41	10.52	16.26	0.00	26.78	-171.15	-164.10	4F944
HOPE	33 39.81	106 35.11	4692.9	979140.70	-36.99	-197.04	-192.85	1.37	0.00	-0.13	0.00	-0.13	-198.55	-194.31	HOPE
M-235	33 39.87	106 32.02	4688.0	979140.02	-38.21	-198.10	-193.91	1.37	0.00	-0.01	0.00	-0.01	-199.48	-195.26	M-235
GP-27	33 39.00	106 25.15	5398.3	979122.59	10.95	-173.17	-168.34	1.45	0.20	1.35	0.00	1.55	-173.07	-168.24	GP-27
MWAAZ	33 39.08	106 27.55	5038.0	979137.13	-8.45	-180.28	-175.77	1.42	0.05	0.42	0.00	0.47	-181.22	-176.69	MWAAZ
D-333	33 39.28	106 32.41	4683.4	979138.87	-40.36	-200.10	-195.91	1.37	0.00	-0.03	0.00	-0.03	-201.50	-197.27	D-333
D114	33 39.31	106 32.35	4689.9	979136.71	-41.95	-201.91	-197.72	1.37	0.00	-0.03	0.00	-0.03	-203.31	-199.08	D114
GP-9	33 39.39	106 28.77	4898.0	979137.00	-22.21	-189.26	-184.89	1.40	0.00	0.25	0.00	0.25	-190.41	-186.00	GP-9
N-235	33 39.42	106 32.62	4684.7	979137.96	-41.35	-201.12	-196.94	1.37	0.00	-0.04	0.00	-0.04	-202.54	-198.31	N-235
986	33 39.50	106 40.90	4745.6	979152.90	-20.79	-182.65	-178.40	1.38	0.00	-0.19	0.00	-0.19	-184.22	-179.93	986
Z-333	33 39.70	106 29.43	5136.1	979133.61	-3.65	-178.82	-174.23	1.43	0.05	0.55	0.00	0.60	-179.68	-175.03	Z-333
GP-26	33 39.73	106 25.84	5323.5	979127.30	7.61	-173.95	-169.19	1.45	0.15	0.90	0.00	1.05	-174.35	-169.89	GP-26
HE 37	33 39.77	106 31.04	4726.0	979139.27	-36.64	-197.83	-193.60	1.38	0.00	0.05	0.00	0.05	-199.16	-194.89	HE 37
OTIS	33 39.78	106 35.06	4705.0	979139.65	-38.25	-198.72	-194.51	1.37	0.00	-0.13	0.00	-0.13	-200.22	-195.98	OTIS
MILWA	33 40.00	106 26.20	5282.5	979129.40	5.49	-174.68	-169.96	1.44	0.10	0.78	0.00	0.88	-175.25	-170.51	MILWA
GP-32	33 40.00	106 25.07	5512.5	979116.08	13.79	-174.23	-169.30	1.46	0.10	1.20	0.00	1.30	-174.39	-169.46	GP-32

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STATION	LATITUDE	LONGITUDE	ELEV	OBS GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TUT	C.B.1	C.B.2	ACC	STA	
GP-6	33	40.13	106 30.08	4791.7	979137.59	-32.64	-196.07	-191.79	1.38	0.00	0.13	0.00	0.13	-197.33	-193.01	GP-6
GP-12	33	40.19	106 27.13	5115.5	979132.35	-7.53	-182.00	-177.43	1.42	0.05	0.50	0.00	0.55	-182.87	-178.28	GP-12
GP-13	33	40.23	106 28.01	5002.0	979135.14	-15.46	-186.06	-181.59	1.41	0.02	0.35	0.00	0.37	-187.10	-182.60	GP-13
D1043	33	40.25	106 24.14	5806.4	979098.89	23.87	-174.16	-168.97	1.48	0.20	1.71	0.00	1.91	-173.74	-168.56	D1043
C-343	33	40.33	106 22.03	8149.6	978945.09	90.17	-187.78	-180.49	1.46	5.02	10.76	0.00	15.78	-173.46	-166.54	C-343
P-235	33	40.33	106 33.20	4695.2	979136.41	-43.17	-203.31	-199.11	1.37	0.00	-0.07	0.00	-0.07	-204.75	-200.51	P-235
GP-8	33	40.36	106 26.54	4918.0	979136.52	-22.16	-189.90	-185.50	1.40	0.25	0.29	0.00	0.84	-190.76	-186.34	GP-8
WIN R	33	40.40	106 49.30	4814.6	979175.90	7.45	-156.76	-152.46	1.39	0.00	-0.18	0.00	-0.18	-158.33	-153.98	WIN R
GP-7	33	40.45	106 29.11	4859.6	979137.35	-26.94	-192.69	-188.34	1.39	0.00	0.22	0.00	0.22	-193.86	-189.49	GP-7
GP-33	33	40.48	106 23.67	6038.7	979084.23	30.73	-175.23	-169.83	1.50	1.75	1.59	0.00	3.34	-173.39	-168.04	GP-33
D115	33	40.66	106 40.45	4768.0	979150.97	-22.23	-184.85	-180.58	1.38	0.00	-0.19	0.00	-0.19	-186.42	-182.11	D115
GP-34	33	40.69	106 23.13	6372.0	979062.79	40.32	-177.00	-171.31	1.51	3.40	1.92	0.00	5.32	-173.19	-167.59	GP-34
C-333	33	40.76	106 26.12	5300.8	979127.95	4.70	-176.09	-171.35	1.44	0.10	0.77	0.00	0.87	-176.67	-171.91	C-333
GP-54	33	40.87	106 28.66	4915.7	979136.64	-22.96	-190.62	-186.23	1.40	0.00	0.27	0.00	0.27	-191.76	-187.33	GP-54
GP-35	33	40.92	106 24.22	5814.6	979098.11	22.93	-175.38	-170.18	1.49	0.71	1.73	0.00	2.44	-174.43	-169.26	GP-35
Q-235	33	41.07	106 33.68	4712.3	979135.92	-43.08	-203.80	-199.59	1.37	0.00	-0.09	0.00	-0.09	-205.27	-201.02	Q-235
5F109	33	41.10	106 53.20	5052.8	979153.40	6.36	-165.97	-161.45	1.42	0.00	0.06	0.00	0.06	-167.32	-162.77	5F109
OFF 2	33	41.40	106 33.80	4711.5	979136.70	-42.84	-203.53	-199.32	1.37	0.00	-0.09	0.00	-0.09	-205.00	-200.75	OFF 2
A-343	33	41.48	106 22.13	7877.0	978965.27	83.14	-185.52	-178.47	1.48	4.56	8.44	0.00	12.94	-174.06	-167.31	A-343
GP-53	33	41.50	106 29.02	4884.5	979137.20	-26.21	-192.81	-188.44	1.40	0.00	0.22	0.00	0.22	-193.98	-189.58	GP-53
B-333	33	41.56	106 26.48	5225.4	979129.34	-2.11	-180.33	-175.66	1.44	0.07	0.63	0.00	0.70	-181.06	-176.37	B-333
D116	33	41.60	106 58.80	4470.1	979165.11	-37.40	-189.86	-185.86	1.34	0.00	-0.03	0.00	-0.03	-191.23	-187.19	D116
FL167	33	41.70	106 35.44	4719.2	979141.34	37.89	-198.85	-194.63	1.37	0.00	-0.14	0.00	-0.14	-200.36	-196.10	FL167
GP-36	33	41.70	106 23.70	5983.9	979088.05	27.70	-176.39	-171.04	1.50	1.70	1.56	0.00	3.26	-174.62	-169.32	GP-36
GP-37	33	41.76	106 22.81	6564.9	979050.15	44.33	-179.58	-173.71	1.52	2.00	2.34	0.00	4.34	-176.76	-170.96	GP-37
Y-341	33	41.79	106 15.34	5933.7	979090.52	25.33	-177.05	-171.75	1.49	1.33	0.77	0.00	2.10	-176.44	-171.15	Y-341
BRV25	33	41.80	106 50.80	5508.6	979136.20	31.04	-156.84	-151.92	1.46	0.05	0.35	0.00	0.40	-157.91	-152.95	BRV25
GP-59	33	41.87	106 33.18	4720.1	979135.70	-43.68	-204.67	-200.45	1.38	0.00	-0.07	0.00	-0.07	-206.12	-201.86	GP-59
GP-60	33	41.90	106 32.28	4733.9	979134.15	-43.98	-205.43	-201.20	1.38	0.00	-0.03	0.00	-0.03	-206.84	-202.57	GP-60
GP-61	33	41.94	106 31.25	4758.2	979133.87	-42.03	-204.31	-200.06	1.38	0.00	0.03	0.00	0.03	-205.66	-201.37	GP-61
GP-62	33	41.98	106 30.52	4794.9	979134.12	-38.38	-201.92	-197.63	1.39	0.00	0.09	0.00	0.09	-203.22	-198.90	GP-62
GP-52	33	42.31	106 29.33	4877.6	979135.98	-29.21	-195.57	-191.20	1.40	0.00	0.16	0.00	0.18	-196.78	-192.39	GP-52
A-333	33	42.37	106 26.50	5171.2	979132.27	-5.40	-181.77	-177.15	1.43	0.05	0.61	0.00	0.66	-182.54	-177.90	A-333
GP-38	33	42.54	106 23.49	5954.4	979090.80	26.51	-176.57	-171.25	1.49	1.77	1.39	0.00	3.16	-174.91	-169.63	GP-38
X-342	33	42.56	106 22.21	7677.5	978977.78	75.40	-186.45	-179.59	1.49	5.80	7.14	0.00	12.94	-175.00	-168.44	X-342
A-342	33	42.73	106 16.62	6362.8	979065.18	39.01	-178.00	-172.31	1.51	1.17	1.35	0.00	2.52	-176.99	-171.32	A-342
5F92	33	43.00	106 47.70	4802.0	979171.90	-1.35	-165.13	-160.84	1.39	0.00	-0.18	0.00	-0.18	-166.70	-162.37	5F92
TS295	33	43.05	106 34.78	4733.6	979140.06	-39.70	-201.14	-196.91	1.38	0.00	-0.12	0.00	-0.12	-202.64	-198.37	TS295
Z-329	33	43.16	106 27.20	5129.6	979135.39	-7.29	-182.24	-177.66	1.43	0.00	0.43	0.00	0.43	-183.24	-178.63	Z-329
4F958	33	43.20	106 29.70	4878.4	979132.70	-33.65	-200.04	-195.67	1.40	0.00	0.14	0.00	0.14	-201.29	-196.90	4F958
GP-57	33	43.32	106 32.61	4756.9	979134.30	-43.64	-205.88	-201.63	1.38	0.00	-0.05	0.00	-0.05	-207.31	-203.02	GP-57
GP-58	33	43.33	106 31.60	4802.2	979131.22	-42.48	-206.26	-201.97	1.39	0.00	-0.01	0.00	-0.01	-207.66	-203.33	GP-58
GP-56	33	43.34	106 33.55	4738.5	979137.05	-42.65	-204.26	-200.02	1.38	0.00	-0.09	0.00	-0.09	-205.72	-201.45	GP-56
BECK	33	43.42	106 28.18	5057.4	979134.41	-15.42	-187.91	-183.39	1.42	0.00	0.28	0.00	0.28	-189.05	-184.50	BECK
GP-39	33	43.54	106 23.34	5790.3	979103.09	21.99	-175.50	-170.32	1.48	1.50	1.58	0.00	3.08	-173.90	-168.77	GP-39
V-342	33	43.62	106 22.11	7327.1	979005.36	68.58	-181.32	-174.77	1.51	4.29	4.64	0.00	8.93	-173.90	-167.54	V-342
T-235	33	43.63	106 35.11	4747.4	979140.92	-38.34	-200.26	-196.02	1.38	0.00	-0.13	0.00	-0.13	-201.77	-197.49	T-235
GP-47	33	43.65	106 24.59	5512.5	979119.88	12.51	-175.50	-170.57	1.46	0.10	1.21	0.00	1.31	-175.66	-170.72	GP-47
C-342	33	43.79	106 17.74	6743.4	979046.05	54.18	-175.82	-169.79	1.52	0.97	1.91	0.00	2.88	-174.46	-168.46	C-342
GP-46	33	43.87	106 25.69	5313.6	979132.28	9.91	-175.32	-170.57	1.44	0.00	0.76	0.00	0.76	-176.00	-171.23	GP-46

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STATION	LATITUDE	LONGITUDE	ELEV	OBS	GRAV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
BECKA	33 43.91	106 29.04	4957.0	979131.97		-27.98	-197.05	-192.61	1.41	0.00	0.18	0.00	0.18	-198.27	-193.81	BECKA
Y-329	33 43.96	106 27.55	5088.2	979136.05		-11.64	-185.18	-180.63	1.42	0.00	0.36	0.00	0.36	-186.24	-181.66	Y-329
D-525	33 44.00	106 35.30	4755.9	979141.37		-37.61	-199.82	-195.56	1.38	0.00	-0.13	0.00	-0.13	-201.33	-197.04	D-525
GREGG	33 44.03	106 32.66	4772.6	979134.48		-42.97	-205.75	-201.48	1.38	0.00	-0.05	0.00	-0.05	-207.18	-202.87	GREGG
GP-45	33 44.07	106 26.61	5186.3	979138.34		0.28	-177.16	-172.53	1.43	0.00	0.51	0.00	0.51	-178.08	-173.42	GP-45
GLO10	33 44.20	106 44.60	6498.0	979095.00		79.49	-142.13	-136.32	1.51	1.00	0.78	0.00	1.78	-141.87	-136.06	GLO10
GP-40	33 44.29	106 23.40	5848.7	979099.95		23.29	-176.19	-170.96	1.49	1.40	1.88	0.00	3.28	-174.40	-169.21	GP-40
ATOM	33 44.40	106 21.80	7964.4	978958.60		80.62	-191.02	-183.90	1.47	5.50	8.42	0.00	13.92	-178.67	-171.78	ATOM
NORMA	33 44.42	106 33.20	4788.0	979134.56		-41.99	-205.29	-201.01	1.38	0.00	0.08	0.00	0.08	-206.75	-202.43	NORMA
P-342	33 44.53	106 19.86	7340.5	979012.30		75.51	-174.85	-168.28	1.51	0.68	3.55	0.00	4.23	-172.12	-165.63	P-342
GP-50	33 44.56	106 28.39	5021.6	979132.48		-22.30	-193.57	-189.08	1.41	0.00	0.23	0.00	0.23	-194.75	-190.23	GP-50
X-329	33 44.80	106 27.93	5062.7	979136.85		-14.40	-187.07	-182.55	1.42	0.00	0.27	0.00	0.27	-188.22	-183.66	X-329
W101	33 44.90	106 0.80	5872.2	979102.20		26.90	-173.38	-168.13	1.49	0.10	0.43	0.00	0.53	-174.34	-169.06	W101
BMJ50	33 44.90	106 2.90	5421.0	979124.20		6.49	-178.40	-173.55	1.45	0.10	0.16	0.00	0.26	-179.60	-174.72	BMJ50
GLO12	33 45.00	106 57.00	5450.5	979136.70		21.62	-164.27	-159.40	1.46	0.05	0.21	0.00	0.26	-165.47	-160.57	GLO12
BMH50	33 45.00	106 5.00	5442.6	979118.50		2.68	-182.95	-178.08	1.46	0.10	0.15	0.00	0.25	-184.15	-179.25	BMH50
CRA1R	33 45.08	106 35.95	4775.6	979143.88		-34.75	-197.63	-193.36	1.38	0.00	-0.14	0.00	-0.14	-199.15	-194.84	CRA1R
4F945	33 45.10	106 22.30	7999.0	978955.90		80.20	-192.62	-185.47	1.47	11.50	8.72	0.00	20.22	-173.87	-167.21	4F945
TS798	33 45.22	106 23.45	5866.5	979099.93		23.65	-176.44	-171.19	1.49	2.04	1.61	0.00	3.65	-174.28	-169.09	TS798
WINDM	33 45.30	106 44.40	4819.5	979165.90		-8.91	-173.29	-168.98	1.39	0.00	-0.17	0.00	-0.17	-174.85	-170.50	WINDM
D118	33 45.49	106 6.91	5612.8	979105.97		5.47	-185.97	-180.95	1.47	0.10	0.22	0.00	0.32	-187.12	-182.07	D118
GP-15	33 45.61	106 34.80	4794.6	979139.28		-38.30	-201.83	-197.54	1.39	0.00	-0.12	0.00	-0.12	-203.33	-199.00	GP-15
GP-17	33 45.61	106 32.75	4817.6	979134.63		-40.79	-205.10	-200.79	1.39	0.00	-0.06	0.00	-0.06	-206.55	-202.21	GP-17
TS628	33 45.61	106 34.45	4791.3	979138.42		-39.47	-202.89	-198.60	1.38	0.00	-0.11	0.00	-0.11	-204.38	-200.06	TS628
W-329	33 45.62	106 28.30	5045.3	979138.43		-15.60	-187.68	-183.16	1.42	0.30	0.22	0.00	0.52	-188.57	-184.04	W-329
GP-16	33 45.64	106 33.57	4802.2	979136.32		-40.59	-204.38	-200.08	1.39	0.00	-0.09	0.00	-0.09	-205.85	-201.52	GP-16
GP-18	33 45.68	106 31.83	4860.6	979132.49		-38.98	-204.76	-200.42	1.39	0.00	-0.03	0.00	-0.03	-206.19	-201.81	GP-18
GP-19	33 45.79	106 30.81	4911.7	979131.99		-34.83	-202.35	-197.96	1.40	0.00	0.01	0.00	0.01	-203.74	-199.31	GP-19
GP-20	33 45.84	106 30.04	4952.4	979132.56		-30.51	-199.42	-194.99	1.40	0.00	0.06	0.00	0.06	-200.78	-196.30	GP-20
GP-41	33 45.89	106 24.28	5515.1	979121.73		11.49	-176.61	-171.68	1.46	1.40	1.50	0.00	2.90	-175.18	-170.28	GP-41
N01MP	33 45.90	106 34.60	4803.8	979138.70		-38.42	-202.26	-197.97	1.39	0.00	-0.11	0.00	-0.11	-203.76	-199.42	N01MP
GP-14	33 46.31	106 36.77	4809.4	979145.59		-31.57	-195.61	-191.31	1.39	0.00	-0.14	0.00	-0.14	-197.14	-192.80	GP-14
GP-42	33 46.40	106 24.95	5176.0	979132.99		8.96	-174.39	-169.59	1.45	1.20	0.92	0.00	2.12	-173.72	-168.93	GP-42
GP-44	33 46.47	106 26.97	5195.5	979146.35		5.26	-171.94	-167.30	1.43	0.05	0.35	0.00	0.40	-172.98	-168.31	GP-44
GP-43	33 46.49	106 25.97	5278.9	979140.90		7.62	-172.42	-167.70	1.44	0.07	0.55	0.00	0.62	-173.25	-168.51	GP-43
Y-329	33 46.51	106 28.70	5055.1	979138.77		-15.58	-187.99	-183.47	1.42	0.20	0.15	0.00	0.35	-189.05	-184.51	Y-329
TS601	33 46.77	106 37.04	4811.0	979146.44		-31.21	-195.30	-191.00	1.39	0.00	-0.14	0.00	-0.14	-196.83	-192.49	TS601
MINE	33 47.24	106 29.18	5094.1	979134.95		-16.75	-190.49	-185.93	1.42	0.15	0.09	0.00	0.24	-191.67	-187.08	MINE
W-235	33 47.26	106 37.31	4818.6	979147.43		-30.19	-194.54	-190.23	1.39	0.00	-0.14	0.00	-0.14	-196.07	-191.72	W-235
U-329	33 47.45	106 30.07	4975.4	979136.87		-26.28	-195.97	-191.62	1.41	0.05	0.04	0.00	0.09	-197.29	-192.81	U-329
T-329	33 47.47	106 31.08	4920.3	979134.53		-33.82	-201.64	-197.24	1.40	0.00	-0.02	0.00	-0.02	-203.06	-198.62	T-329
S-329	33 47.56	106 32.10	4892.7	979133.90		-37.17	-204.05	-199.67	1.40	0.00	-0.06	0.00	-0.06	-205.50	-201.09	S-329
R-329	33 47.57	106 33.09	4870.7	979134.86		-38.30	-204.42	-200.06	1.39	0.00	-0.09	0.00	-0.09	-205.90	-201.51	R-329
Q-329	33 47.66	106 34.08	4842.2	979137.95		-38.01	-203.16	-198.83	1.39	0.00	-0.10	0.00	-0.10	-204.66	-200.29	Q-329
P-239	33 47.70	106 35.06	4838.9	979140.59		-35.74	-200.77	-196.45	1.39	0.00	-0.12	0.00	-0.12	-202.29	-197.92	P-239
GP-11	33 47.71	106 35.84	4835.6	979142.81		-33.84	-198.77	-194.44	1.39	0.00	-0.13	0.00	-0.13	-200.29	-195.92	GP-11
GP-10	33 47.77	106 36.89	4830.0	979145.98		-31.28	-196.01	-191.70	1.39	0.00	-0.14	0.00	-0.14	-197.55	-193.19	GP-10
BN230	33 47.80	106 53.80	4512.6	979166.70		-40.44	-194.35	-190.31	1.35	0.00	0.12	0.00	0.12	-195.57	-191.50	BN230
X-235	33 47.97	106 37.91	4827.6	979149.25		-28.53	-193.18	-188.86	1.39	0.00	-0.14	0.00	-0.14	-194.71	-190.35	X-235
C-327	33 48.59	106 38.67	4882.2	979148.53		-24.97	-191.48	-187.11	1.40	0.00	-0.14	0.00	-0.14	-193.02	-188.61	C-327

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SUMMARY OF THE GRAVITY STATIONS FOR TULAROSA BASIN GRAVITY

STATION	LATITUDE	LONGITUDE	ELEV	OBS GRV	F.A.	S.B.1	S.B.2	CC	TC	TER (NEAR)	TOT	C.B.1	C.B.2	ACC	STA
CATGU	33 48.60	106 14.40	6677.2	979051.80	47.01	-180.73	-174.75	1.52	0.20	1.00	0.00	1.20	-181.05	-175.07	CATGU
BRV27	33 48.80	105 49.40	5811.0	979107.80	21.32	-176.87	-171.66	1.48	0.10	0.25	0.00	0.35	-178.01	-172.78	BRV27
BUR8U	33 48.90	106 28.20	5510.0	979123.80	8.89	-179.04	-174.11	1.46	0.00	0.39	0.00	0.39	-180.11	-175.16	BUR8U
4F896	33 49.20	105 58.20	5424.3	979133.80	10.41	-174.59	-169.74	1.45	0.05	0.12	0.00	0.17	-175.88	-170.99	4F896
5F94	33 49.60	106 47.00	4804.5	979169.20	-13.01	-176.87	-172.58	1.39	0.00	-0.10	0.00	-0.10	-178.36	-174.03	5F94
RED 8	33 49.60	106 39.90	5179.0	979135.90	-11.10	-187.74	-183.11	1.43	0.00	-0.03	0.00	-0.03	-169.20	-184.53	RED 8
D120	33 49.65	106 53.00	4513.7	979160.90	-48.71	-202.66	-198.62	1.35	0.00	0.13	0.00	0.13	-203.87	-199.80	D120
4F897	33 49.90	106 3.90	6383.7	979055.70	21.52	-196.21	-190.50	1.51	0.10	0.51	0.00	0.61	-197.11	-191.38	4F897
4F946	33 50.20	106 24.00	5536.8	979127.10	12.90	-175.95	-170.99	1.46	0.10	0.40	0.00	0.50	-176.91	-171.94	4F946
4F930	33 50.60	106 17.00	6173.8	979085.80	30.91	-179.65	-174.13	1.50	0.20	0.57	0.00	0.77	-180.39	-174.85	4F930
D121	33 51.30	106 23.90	5422.8	979133.52	7.07	-177.89	-173.04	1.45	0.10	0.25	0.00	0.35	-178.99	-174.11	D121
BMZ49	33 51.80	106 18.40	5906.1	979105.20	23.48	-177.96	-172.68	1.49	0.20	0.41	0.00	0.61	-178.84	-173.53	BMZ49
B4532	33 52.50	106 52.30	4532.2	979156.50	-55.35	-209.92	-205.87	1.35	0.00	0.13	0.00	0.13	-211.14	-207.06	B4532
GLQ11	33 53.00	105 51.30	5674.8	979112.40	7.26	-186.28	-181.21	1.48	0.05	0.17	0.00	0.22	-187.53	-182.43	GLQ11
D122	33 53.20	106 43.90	5005.8	979156.62	-11.68	-182.41	-177.93	1.41	0.00	-0.10	0.00	-0.10	-183.93	-179.41	D122
RM-3	33 53.20	106 41.60	5099.3	979147.20	-12.31	-186.23	-181.67	1.42	0.00	-0.12	0.00	-0.12	-187.77	-183.17	RM-3
F-329	33 53.21	106 43.75	5026.6	979156.84	-9.52	-180.96	-176.46	1.41	0.20	-0.10	0.00	0.10	-182.28	-177.75	F-329
E-329	33 53.38	106 44.79	4932.4	979160.88	-14.57	-182.80	-178.39	1.40	0.30	-0.09	0.00	0.21	-183.99	-179.55	E-329
STORN	33 53.70	106 37.40	5027.8	979135.30	-31.63	-203.11	-198.61	1.41	0.00	-0.14	0.00	-0.14	-204.67	-200.13	STORN
W-103	33 53.90	106 36.00	5003.1	979137.00	-32.53	-203.17	-198.70	1.41	0.00	-0.14	0.00	-0.14	-204.72	-200.20	W-103
L-49	33 54.05	106 46.34	4774.6	979165.97	-25.25	-188.10	-183.83	1.38	0.30	-0.02	0.00	0.28	-189.20	-184.90	L-49
BMK49	33 54.60	106 48.30	4680.8	979165.10	-35.71	-195.35	-191.17	1.37	0.00	-0.02	0.00	-0.02	-196.75	-192.52	BMK49
D123	33 54.65	106 27.01	5203.0	979148.54	-3.24	-180.70	-176.05	1.43	0.00	-0.01	0.00	-0.01	-182.14	-177.45	D123
STA56	33 54.70	106 21.00	5604.9	979127.60	13.52	-177.64	-172.63	1.47	0.00	0.15	0.00	0.15	-178.96	-173.91	STA56
4F900	33 55.00	106 4.90	6184.1	979078.20	16.15	-192.77	-187.24	1.50	0.00	0.30	0.00	0.30	-193.98	-188.41	4F900
W-104	33 55.10	106 52.00	4572.4	979158.00	-53.69	-209.64	-205.55	1.35	0.00	0.07	0.00	0.07	-210.93	-206.81	W-104
4F959	33 55.20	106 30.80	5237.9	979135.60	-13.67	-192.32	-187.64	1.44	0.00	-0.04	0.00	-0.04	-193.80	-189.08	4F959
4F899	33 55.20	106 0.00	5976.2	979090.90	11.03	-192.80	-187.46	1.49	0.00	0.23	0.00	0.23	-194.07	-188.69	4F899
5F112	33 55.80	106 53.80	4840.5	979145.10	-42.37	-207.46	-203.13	1.39	0.00	0.09	0.00	0.09	-208.76	-204.40	5F112
BRV29	33 56.40	105 44.40	6122.7	979092.70	24.92	-183.90	-178.43	1.50	0.10	0.32	0.00	0.42	-184.99	-179.48	BRV29
4F917	33 58.40	106 11.40	6596.4	979061.90	35.85	-189.13	-183.23	1.52	0.00	0.57	0.00	0.57	-190.07	-184.15	4F917
4F901	33 58.80	106 2.00	6321.0	979072.40	19.91	-195.68	-190.03	1.51	0.00	0.33	0.00	0.33	-196.85	-191.17	4F901
4F989	33 59.00	106 41.30	5698.0	979108.90	-2.43	-196.76	-191.67	1.48	0.00	0.27	0.00	0.27	-197.97	-192.85	4F989
4F974	33 59.10	106 34.90	5567.4	979134.10	10.36	-179.53	-174.55	1.47	0.00	0.13	0.00	0.13	-180.87	-175.88	4F974
4F934	33 59.30	106 14.70	6432.6	979073.10	30.40	-188.99	-183.24	1.51	0.00	0.55	0.00	0.55	-189.96	-184.18	4F934
4F948	33 59.90	106 24.50	5379.3	979147.10	4.56	-178.91	-174.10	1.45	0.00	-0.01	0.00	-0.01	-180.37	-175.53	4F948

REFERENCES CITED

- Bath, G. D., 1976, Interpretation of magnetic surveys in intermontane valleys of Nevada and southern New Mexico: U.S. Geol. Survey Open-file Rept. 76-440, 37 p.
- Bath, G. D., Healey, D. L., and Karably, L. S., 1977, Combined analysis of gravity and magnetic anomalies at Tularosa Valley, New Mexico [abs.]: Geol. Soc. America Abs. with Programs, v. 9, no. 1, p. 3-4.
- Berman, H., Daly, R. A., and Spicer, H. C., 1942, Density at room temperature and 1 atmosphere, sec. 2 of Handbook of physical constants, Francis Birch, J. F. Schairer, and H. C. Spicer, eds.: Geol. Soc. America Spec. Paper 36, p. 8-26.
- Bott, M. P. H., 1960, The use of rapid digital computing methods for gravity interpretation of a sedimentary basin: Geophys. Jour. (London, Royal Astronomical Soc.), v. 3, no. 1, p. 63-67.
- Chapin, C. E., 1971, The Rio Grande rift; pt. 1, Modifications and additions, in Guidebook of the San Luis Basin, Colorado: New Mexico Geol. Soc., Ann. Field Conf. Guidebook 22, p. 191-201.
- Chapin, C. E., and Seager, W. R., 1975, Evolution of the Rio Grande rift in the Socorro and Las Cruces area, in Guidebook of the Las Cruces country: New Mexico Geol. Soc., Ann. Field Conf. Guidebook, no. 26, p. 297-321.
- Cordell, Lindrith, and Henderson, R. G., 1968, Iterative three-dimensional solution of gravity anomaly data using a digital computer: Geophysics, v. 33, no. 4, p. 596-601.
- Dane, C. H., and Bachman, G. O., 1965, Geologic map of New Mexico: Washington, D. C., U.S. Geol. Survey, 2 sheets, scale 1:500,000.
- Decker, E. R., Cook, F. A., Ramberg, I. B., and Smithson, S. B., 1975, Significance of geothermal and gravity studies in the Las Cruces area, in Guidebook of the Las Cruces country: New Mexico Geol. Soc., Ann. Field Conf. Guidebook, no. 26, p. 251-259.
- Fernald, A. T., 1976, Map of northern portion of White Sands Missile Range, New Mexico, showing surface geology, figure 3.3 (p. 42), in J.T. Neal and others, 1976, Site investigation methodology for multiple aim point missile systems: Air Force Weapons Laboratory Report AFWL-TR-76-145, 232 p.
- Hammer, Sigmund, 1939, Terrain corrections for gravimeter stations: Geophysics, v. 4, no. 3, p. 184-194.
- Hawley, J. W., 1975, Quaternary history of Doña Ana County region, south-central New Mexico, in Guidebook of the Las Cruces country: New Mexico Geol. Soc., Ann. Field Conf. Guidebook, no. 26, p. 139-150.
- Healey, D. L., 1976, Interpretation of gravity surveys in intermontane basins of Nevada and New Mexico. Chapter 6, in J. T. Neal, 1976, Site investigation methodology for multiple aim point missile systems: Air Force Weapons Laboratory Report AFWL-TR-76-145, 232 p.
- International Association of Geodesy, 1971, Geodetic reference system, 1967: Internat. Assoc. Geodesy, Spec. Pub. 3 (Bureau Central, Assoc. Internat. Geodesie, Paris), 116 p.

- Mattick, R. E., 1967, A seismic and gravity profile across the Hueco Bolson, Texas, in Geological Survey Research, 1967: U.S. Geol. Survey Prof. Paper 575-D, p. D85-D91.
- McLean, J. S., 1970, Saline ground-water resources in the Tularosa Basin, New Mexico: U.S. Dept. Interior, Office of Saline Water Research and Development, Progress Report No. 561.
- Negt, J. G., and Garde, S. C., 1969, Symmetric matrix method for rapid gravity interpretation: Jour. Geophys. Research, v. 74, no. 15, p. 3804-3807.
- Nettleton, L. L., 1940, Geophysical prospecting for oil, 1st ed.: New York, McGraw-Hill Book Co., 444 p.
- Plouff, Donald, 1966, Digital terrain correction based on geographic coordinates [abs.]: Geophysics, v. 31, no. 6, p. 1208.
- Woodward, L. A., Callender, J. F., Gries, J., Seager, W. R., Chapin, C. E., Zilinski, R. E., and Shaffer, W. L., compilers, 1975, Tectonic map of the Rio Grande region from New Mexico-Colorado border to Presidio, Texas, in Guidebook of the Las Cruces country: New Mexico Geol. Soc. Ann. Field Conf. Guidebook, no. 26, p. 239.
- Zohdy, A. A. R., Jackson, D. B., Mattick, R. E., and Peterson, D. L., 1969, Geophysical surveys for groundwater at White Sands Missile Range, New Mexico: U.S. Geol. Survey, Open-file Report, 31 p. (plus 44 p. graphs, 8 p. tabular material).