

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.00

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1      National Geodetic Survey,   Retrieval Date = FEBRUARY 28, 2013
DF4273 *****
DF4273 DESIGNATION -   E 445
DF4273 PID         -   DF4273
DF4273 STATE/COUNTY-   CO/JEFFERSON
DF4273 COUNTRY      -   US
DF4273 USGS QUAD     -   MORRISON (1994)
DF4273
DF4273                                *CURRENT SURVEY CONTROL
DF4273
DF4273* NAD 83(2011) POSITION- 39 42 47.64979(N) 105 12 25.07170(W) ADJUSTED
DF4273* NAD 83(2011) ELLIP HT- 1865.854 (meters) (06/27/12) ADJUSTED
DF4273* NAD 83(2011) EPOCH   - 2010.00
DF4273* NAVD 88 ORTHO HEIGHT - 1881.439 (meters) 6172.69 (feet) ADJUSTED
DF4273
DF4273 NAD 83(2011) X - -1,289,117.793 (meters) COMP
DF4273 NAD 83(2011) Y - -4,742,463.329 (meters) COMP
DF4273 NAD 83(2011) Z - 4,054,735.828 (meters) COMP
DF4273 LAPLACE CORR - -22.49 (seconds) DEFLEC12A
DF4273 GEOID HEIGHT - -15.59 (meters) GEOID12A
DF4273 DYNAMIC HEIGHT - 1879.527 (meters) 6166.41 (feet) COMP
DF4273 MODELED GRAVITY - 979,543.8 (mgal) NAVD 88
DF4273
DF4273 VERT ORDER - FIRST CLASS II
DF4273
DF4273 FGDC Geospatial Positioning Accuracy Standards (95% confidence, cm)
DF4273 Type Horiz Ellip Dist(km)
DF4273 -----
DF4273 NETWORK 0.66 1.12
DF4273 -----
DF4273 MEDIAN LOCAL ACCURACY AND DIST (002 points) 0.76 0.83 2.79
DF4273 -----
DF4273 NOTE: Click here for information on individual local accuracy
DF4273 values and other accuracy information.
DF4273
DF4273
DF4273 The horizontal coordinates were established by GPS observations
DF4273 and adjusted by the National Geodetic Survey in June 2012.
DF4273
DF4273 NAD 83(2011) refers to NAD 83 coordinates where the reference
DF4273 frame has been affixed to the stable North American tectonic plate. See
DF4273 NA2011 for more information. for more information.
DF4273
DF4273 The horizontal coordinates are valid at the epoch date displayed above
DF4273 which is a decimal equivalence of Year/Month/Day.
DF4273
DF4273 The orthometric height was determined by differential leveling and
DF4273 adjusted by the NATIONAL GEODETIC SURVEY
DF4273 in November 2003.
DF4273

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DF4273.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DF4273

DF4273.The Laplace correction was computed from DEFLEC12A derived deflections.

DF4273

DF4273.The ellipsoidal height was determined by GPS observations

DF4273.and is referenced to NAD 83.

DF4273

DF4273.The dynamic height is computed by dividing the NAVD 88

DF4273.geopotential number by the normal gravity value computed on the

DF4273.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

DF4273.degrees latitude (g = 980.6199 gals.).

DF4273

DF4273.The modeled gravity was interpolated from observed gravity values.

DF4273

DF4273. The following values were computed from the NAD 83(2011) position.

DF4273

DF4273;		North	East	Units	Scale Factor	Converg.
DF4273;SPC CO C	-	513,530.656	939,529.412	MT	0.99999293	+0 11 05.3
DF4273;SPC CO C	-	1,684,808.49	3,082,439.41	sFT	0.99999293	+0 11 05.3
DF4273;UTM 13	-	4,395,950.487	482,259.899	MT	0.99960387	-0 07 56.1

DF4273

DF4273! Elev Factor x Scale Factor = Combined Factor

DF4273!SPC CO C - 0.99970736 x 0.99999293 = 0.99970030

DF4273!UTM 13 - 0.99970736 x 0.99960387 = 0.99931135

DF4273

DF4273 SUPERSEDED SURVEY CONTROL

DF4273

DF4273 NAD 83(2007)- 39 42 47.64999(N) 105 12 25.07250(W) AD() 0

DF4273 ELLIP H (02/10/07) 1865.870 (m) GP()

DF4273 NAD 83(1992)- 39 42 47.64927(N) 105 12 25.07188(W) AD() 1

DF4273 ELLIP H (10/27/04) 1865.878 (m) GP() 4 2

DF4273 NAVD 88 (10/27/04) 1881.44 (m) 6172.7 (f) LEVELING 3

DF4273

DF4273.Superseded values are not recommended for survey control.

DF4273

DF4273.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DF4273.[See file dsdata.txt](#) to determine how the superseded data were derived.

DF4273

DF4273_U.S. NATIONAL GRID SPATIAL ADDRESS: 13SDD8225995950(NAD 83)

DF4273

DF4273_MARKER: DV = VERTICAL CONTROL DISK

DF4273_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE

DF4273_SP_SET: HEADWALL OF WALL

DF4273_STAMPING: E 445 2000

DF4273_MARK LOGO: NGS

DF4273_MAGNETIC: N = NO MAGNETIC MATERIAL

DF4273_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

DF4273+STABILITY: SURFACE MOTION

DF4273_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DF4273+SATELLITE: SATELLITE OBSERVATIONS - March 06, 2012

DF4273

DF4273	HISTORY	- Date	Condition	Report By
DF4273	HISTORY	- 20000516	MONUMENTED	NGS
DF4273	HISTORY	- 20040130	GOOD	MSAM
DF4273	HISTORY	- 20071005	GOOD	METRSC
DF4273	HISTORY	- 20120306	GOOD	INDIV

DF4273

DF4273 STATION DESCRIPTION

DF4273

DF4273'DESCRIBED BY NATIONAL GEODETIC SURVEY 2000 (RSC)

DF4273'THE STATION IS LOCATED ABOUT 3.0 MI SOUTH-SOUTHEAST OF GOLDEN, 1.7
DF4273'MI SOUTHWEST OF THE INTERSECTION OF INTERSTATE 70 AND SIXTH
DF4273'AVENUE AND 1.2 MI NORTH-NORTHEAST OF THE MOUTH OF MOUNT VERNON
DF4273'CANYON, IN THE SOUTHEAST 1/4 OF SECTION 10, T 4 S, R 70 W, AT U. S.
DF4273'HIGHWAY 40 MILEPOST 285.45. OWNERSHIP--COLORADO DEPT. OF
DF4273'TRANSPORTATION RIGHT-OF-WAY.

DF4273'

DF4273'TO REACH THE STATION FROM THE INTERSECTION OF U. S. HIGHWAY 40,
DF4273'COLORADO STATE HIGHWAY 26 AND INTERSTATE 70, SOUTH OF GOLDEN,
DF4273'GO NORTH ON U. S. HIGHWAY 40 FOR 1.0 MI TO THE STATION ON THE LEFT
DF4273'AT THE ENTRANCE TO HERITAGE SQUARE.

DF4273'

DF4273'THE MARK IS A STANDARD DISK SET INTO THE TOP OF A 9.2 M LONG
DF4273'CONCRETE HEAD WALL FOR A THREE DRAIN CULVERT AT THE
DF4273'SOUTHWESTERN CORNER OF THE NORTHERN HEAD WALL. IT IS 34.35 M
DF4273'SOUTHEAST FROM THE EASTERN MOST SUPPORT FOR THE HERITAGE
DF4273'SQUARE SIGN, 26.8 M SOUTHWEST FROM THE CENTER LINE OF U. S.
DF4273'HIGHWAY 40, 8.6 M WEST FROM THE END OF A GUARD RAIL, 7.5 M
DF4273'NORTHWEST FROM THE CENTER LINE OF THE ROAD TO HERITAGE SQUARE,
DF4273'0.15 M EAST-NORTHEAST FROM THE WESTERN MOST END OF THE
DF4273'CONCRETE HEAD WALL AND ABOUT 0.6 M BELOW THE HIGHWAY.

DF4273'

DF4273'

DF4273

DF4273

STATION RECOVERY (2004)

DF4273

DF4273'RECOVERY NOTE BY MOUNTAIN SURVEYING AND MAPPING INC 2004 (KCH)

DF4273'RECOVERY NOTE BY MOUNTAIN SURVEYING AND MAPPING, INC. 2004 (BAJ)

DF4273'RECOVERED AS DESCRIBED

DF4273

DF4273

STATION RECOVERY (2007)

DF4273

DF4273'RECOVERY NOTE BY METROPOLITAN STATE COLLEGE OF DENVER 2007 (AA)

DF4273'RECOVERED IN GOOD CONDITION.

DF4273

DF4273

STATION RECOVERY (2012)

DF4273

DF4273'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2012 (BB)

DF4273'RECOVERED AS DESCRIBED - MONUMENT IS ON HEADWALL - WOULD NOT BE EASY

DF4273'

DF4273'TO SET TRIPOD OVER MONUMENT. - TRUE NORTH SURVEYING AND MAPPING

*** retrieval complete.

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