

The NGS Data Sheet

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

PROGRAM = datasheet95, VERSION = 8.12.5.4

1 National Geodetic Survey, Retrieval Date = NOVEMBER 22, 2019

LB0933 *****

LB0933 CBN - This is a Cooperative Base Network Control Station.

LB0933 PACS - This is a Primary Airport Control Station.

LB0933 DESIGNATION - Q 94

LB0933 PID - LB0933

LB0933 STATE/COUNTY- IN/TIPPECANOE

LB0933 COUNTRY - US

LB0933 USGS QUAD - LAFAYETTE WEST (1987)

LB0933

LB0933 *CURRENT SURVEY CONTROL

LB0933

LB0933* NAD 83(2011) POSITION- 40 25 00.66256(N) 086 55 52.80697(W) ADJUSTED

LB0933* NAD 83(2011) ELLIP HT- 152.015 (meters) (06/27/12) ADJUSTED

LB0933* NAD 83(2011) EPOCH - 2010.00

LB0933* [NAVD 88](#) ORTHO HEIGHT - 185.690 (meters) 609.22 (feet) ADJUSTED

LB0933

LB0933 GEOID HEIGHT - -33.657 (meters) GEOID18

LB0933 NAD 83(2011) X - 260,326.434 (meters) COMP

LB0933 NAD 83(2011) Y - -4,855,969.213 (meters) COMP

LB0933 NAD 83(2011) Z - 4,113,433.130 (meters) COMP

LB0933 LAPLACE CORR - -2.85 (seconds) DEFLEC18

LB0933 DYNAMIC HEIGHT - 185.600 (meters) 608.92 (feet) COMP

LB0933 MODELED GRAVITY - 980,134.9 (mgal) NAVD 88

LB0933

LB0933 VERT ORDER - SECOND CLASS 0

LB0933

LB0933 Network accuracy estimates per FGDC Geospatial Positioning Accuracy Standards:

	FGDC (95% conf, cm)		Standard deviation (cm)			CorrNE
	Horiz	Ellip	SD_N	SD_E	SD_h	(unitless)

NETWORK	0.53	1.18	0.25	0.17	0.60	-0.09414925
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LB0933

LB0933 Click [here](#) for local accuracies and other accuracy information.

LB0933

LB0933

LB0933.This mark is at Purdue Univ Airport (LAF)

LB0933

LB0933.The horizontal coordinates were established by GPS observations

LB0933.and adjusted by the National Geodetic Survey in June 2012.

LB0933

LB0933.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has been affixed to the stable North American tectonic plate. See

LB0933.[NA2011](#) for more information.

LB0933

LB0933.The horizontal coordinates are valid at the epoch date displayed above

LB0933.which is a decimal equivalence of Year/Month/Day.

LB0933

LB0933.The orthometric height was determined by differential leveling and

LB0933.adjusted by the NATIONAL GEODETIC SURVEY

LB0933.in June 1991.

LB0933

LB0933.Significant digits in the geoid height do not necessarily reflect accuracy.

LB0933.GE0ID18 height accuracy estimate available [here](#).

LB0933

LB0933.Click [here](#) to see if photographs exist for this station.

LB0933

LB0933.The X, Y, and Z were computed from the position and the ellipsoidal ht.

LB0933

LB0933.The Laplace correction was computed from DEFLEC18 derived deflections.

LB0933

LB0933.The ellipsoidal height was determined by GPS observations

LB0933.and is referenced to NAD 83.

LB0933

LB0933.The dynamic height is computed by dividing the NAVD 88

LB0933.geopotential number by the normal gravity value computed on the

LB0933.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

LB0933.degrees latitude (g = 980.6199 gals.).

LB0933

LB0933.The modeled gravity was interpolated from observed gravity values.

LB0933

LB0933. The following values were computed from the NAD 83(2011) position.

LB0933

LB0933;		North	East	Units	Scale Factor	Converg.
LB0933;SPC IN W	-	573,813.724	912,900.003	MT	0.99996871	+0 05 54.8
LB0933;SPC IN W	-	1,882,587.19	2,995,072.76	sFT	0.99996871	+0 05 54.8
LB0933;UTM 16	-	4,474,027.504	505,825.405	MT	0.99960042	+0 02 40.3

LB0933

LB0933! - Elev Factor x Scale Factor = Combined Factor

LB0933!SPC IN W - 0.99997615 x 0.99996871 = 0.99994486

LB0933!UTM 16 - 0.99997615 x 0.99960042 = 0.99957658

LB0933

LB0933_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TEK0582574027(NAD 83)

LB0933

LB0933 SUPERSEDED SURVEY CONTROL

LB0933

LB0933	NAD 83(2007)-	40 25 00.66271(N)	086 55 52.80796(W)	AD(2002.00)	0
LB0933	ELLIP H (02/10/07)	152.040 (m)		GP(2002.00)	
LB0933	NAD 83(1997)-	40 25 00.66248(N)	086 55 52.80779(W)	AD()	B
LB0933	ELLIP H (04/10/98)	152.048 (m)		GP()	4 1
LB0933	NAVD 88	185.69 (m)	609.2 (f)	LEVELING	3
LB0933	NGVD 29 (??/??/92)	185.790 (m)	609.55 (f)	ADJ UNCH	2 0

LB0933

LB0933.Superseded values are not recommended for survey control.

LB0933

LB0933.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

LB0933.See file [dsdata.pdf](#) to determine how the superseded data were derived.

LB0933

LB0933_MARKER: DB = BENCH MARK DISK

LB0933_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LB0933_STAMPING: Q 94 1946

LB0933_MARK LOGO: CGS

LB0933_PROJECTION: PROJECTING 5 CENTIMETERS

LB0933_MAGNETIC: N = NO MAGNETIC MATERIAL

LB0933_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

LB0933+STABILITY: SURFACE MOTION

LB0933_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LB0933+SATELLITE: SATELLITE OBSERVATIONS - February 06, 2017

LB0933

LB0933 HISTORY - Date Condition Report By

LB0933 HISTORY - 1946 MONUMENTED CGS

LB0933	HISTORY	- 1968	GOOD	CGS
LB0933	HISTORY	- 1978	GOOD	NGS
LB0933	HISTORY	- 19870730	GOOD	NGS
LB0933	HISTORY	- 19970527	GOOD	NGS
LB0933	HISTORY	- 19970627	GOOD	NGS
LB0933	HISTORY	- 19980724	GOOD	WOOLPT
LB0933	HISTORY	- 20020315	GOOD	WOOLPT
LB0933	HISTORY	- 20050322	GOOD	INDIV
LB0933	HISTORY	- 20080711	GOOD	BUTLER
LB0933	HISTORY	- 20090728	GOOD	LDACE
LB0933	HISTORY	- 20110505	GOOD	JCLS
LB0933	HISTORY	- 20140710	MARK NOT FOUND	GRWAS
LB0933	HISTORY	- 20141013	GOOD	INDIV
LB0933	HISTORY	- 20170206	GOOD	INDOT

LB0933

LB0933 STATION DESCRIPTION

LB0933

LB0933'DESCRIBED BY COAST AND GEODETIC SURVEY 1946

LB0933'1.3 MI SW FROM WEST LA FAYETTE.

LB0933'ABOUT 0.8 MILE WEST ALONG STATE HIGHWAY 26 FROM THE PURDUE

LB0933'UNIVERSITY AGRICULTURE BUILDING AT WEST LA FAYETTE, THENCE 0.5 MILE

LB0933'SOUTH ALONG A PAVED ROAD, AT PURDUE UNIVERSITY AIR PORT, 141 FEET

LB0933'NORTH OF THE NORTHWEST CORNER OF THE WESTERLY AND NEWER OF TWO

LB0933'LARGE BRICK HANGARS, 35 FEET SOUTH OF THE SOUTH RAIL OF THE NEW

LB0933'YORK, CHICAGO AND ST. LOUIS RAILROAD, 16.5 FEET NORTHEAST OF A

LB0933'FIELD BOUNDARY LIGHT, 1 1/2 FEET SOUTH OF THE NORTH BOUNDARY FENCE

LB0933'LINE, 2 FEET EAST OF A WHITE WOODEN WITNESS POST AND ABOUT 3 FEET

LB0933'BELOW TRACK LEVEL. A STANDARD DISK, STAMPED Q 94 1946 AND SET IN

LB0933'THE TOP OF A CONCRETE POST PROJECTING 6 INCHES ABOVE GROUND.

LB0933

LB0933 STATION RECOVERY (1968)

LB0933

LB0933'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1968

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (1978)

LB0933

LB0933'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1978

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (1987)

LB0933

LB0933'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (1997)

LB0933

LB0933'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

LB0933'THE STATION IS LOCATED NEAR THE SOUTHWEST SIDE OF LAFAYETTE, ALONG THE

LB0933'NORTH SIDE OF THE LAFAYETTE-PURDUE UNIVERSITY AIRPORT, IN THE

LB0933'SOUTHWEST QUADRANT OF THE JUNCTION OF STATE HIGHWAY 526 (AIRPORT ROAD)

LB0933'AND A RAILROAD TRACK, AND IN A STRIP OF GRASS BETWEEN THE RAILROAD AND

LB0933'AN ACCESS ROAD LEADING TO SEVERAL HANGARS. OWNERSHIP--NEW YORK CENTRAL

LB0933'AND ST. LOUIS RAILROAD. TO REACH FROM THE UNDERPASS AT THE JUNCTION

LB0933'OF INTERSTATE HIGHWAY 65, U.S. HIGHWAY 231 AND STATE HIGHWAY 43 (EXIT

LB0933'178) ABOUT 7 KM (4.35 MI) NORTH OF LAFAYETTE, GO SOUTHWESTERLY ON

LB0933'HIGHWAYS 43 AND 231 FOR 8.29 KM (5.15 MI) TO THE T-JUNCTION OF STATE

LB0933'HIGHWAY 26 (STATE STREET) IN WEST LAFAYETTE. TURN RIGHT, WEST AND

LB0933'UPHILL ON STATE STREET FOR 2.25 KM (1.40 MI) TO A PAVED CROSSROAD

LB0933'(STATE HIGHWAY 526/AIRPORT ROAD). TURN LEFT, SOUTH ON AIRPORT ROAD FOR

LB0933'0.8 KM (0.50 MI) TO THE TERMINAL AND TWO PARKING LOTS JUST PAST A

LB0933'RAILROAD TRACK. TURN RIGHT, WEST THROUGH A PARKING LOT FOR 0.12 KM
LB0933'(0.05 MI) TO THE STATION ON THE RIGHT. THE STATION IS SET IN THE TOP
LB0933'OF A 30 CM SQUARE CONCRETE POST PROJECTING 12 CM ABOVE GROUND. IT IS
LB0933'15.0 M (49.2 FT) SOUTH OF AND ABOUT 1.5 M (4.9 FT) LOWER THAN THE
LB0933'SOUTH RAIL OF THE TRACKS, 14.0 M (45.9 FT) NORTHEAST OF A FIRE
LB0933'HYDRANT, 13.7 M (44.9 FT) EAST-NORTHEAST OF THE NORTHEAST CORNER OF A
LB0933'STEEL CABLE DUCT COVER, 12.4 M (40.7 FT) NORTH OF THE NORTHEAST CORNER
LB0933'OF THE CHAIN LINK AIRPORT PERIMETER FENCE, 8.6 M (28.2 FT) NORTH OF
LB0933'THE CENTER OF THE PAVED ACCESS ROAD, 5.4 M (17.7 FT) SOUTH OF THE
LB0933'SOUTHWEST CORNER OF A CONCRETE CABLE DUCT COVER, 4.9 M (16.1 FT)
LB0933'WEST-SOUTHWEST OF A MOTORCYCLE PARKING ONLY SIGN, 3.6 M (11.8 FT) WEST
LB0933'OF THE NORTHWEST CORNER OF THE PARKING LOT AND 0.2 M (0.7 FT) SOUTH OF
LB0933'A FIBERGLASS WITNESS POST. NOTE--THIS STATION IS DESIGNATED AS THE
LB0933'PRIMARY AIRPORT CONTROL STATION.

LB0933

LB0933 STATION RECOVERY (1997)

LB0933

LB0933'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)

LB0933'RECOVERED AS DESCRIBED.

LB0933

LB0933 STATION RECOVERY (1998)

LB0933

LB0933'RECOVERY NOTE BY WOOLPERT CONSULTANTS 1998 (KRB)

LB0933'RECOVERED AS DESCRIBED. WOOLPERT LLP 1998 (KRB).

LB0933

LB0933 STATION RECOVERY (2002)

LB0933

LB0933'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2002 (RMC)

LB0933'DUE TO LARGE TREES IN THE SOUTH AND EAST QUADRANTS THE STATION IS NO

LB0933'LONGER IDEAL FOR SATELLITE OBSERVATIONS

LB0933

LB0933 STATION RECOVERY (2005)

LB0933

LB0933'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2005 (JAB)

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (2008)

LB0933

LB0933'RECOVERY NOTE BY BUTLER FAIRMAN AND SEUFERT INC 2008 (JRC)

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (2009)

LB0933

LB0933'RECOVERY NOTE BY LOUISVILLE DISTRICT USE 2009 (DLS)

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (2011)

LB0933

LB0933'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2011

LB0933'RECOVERED IN GOOD CONDITION.

LB0933

LB0933 STATION RECOVERY (2014)

LB0933

LB0933'RECOVERY NOTE BY GRW AERIAL SURVEY 2014 (BZ)

LB0933'RECOVERED AS DESCRIBED

LB0933

LB0933 STATION RECOVERY (2014)

LB0933

LB0933'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2014 (NHH)

LB0933'RECOVERED AS DESCRIBED, DISC AND CONCRETE POST PROJECTING 12 CM ABOVE

LB0933'GROUND, IS CLEAR FOR GPS OBSERVATION.

LB0933

LB0933

STATION RECOVERY (2017)

LB0933

LB0933'RECOVERY NOTE BY INDIANA DEPARTMENT OF TRANSPORTATION 2017 (BR)

LB0933'RECOVERED AS DESCRIBED.

*** retrieval complete.

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