

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES

Indianapolis, Indiana

BENCH MARK DESCRIPTIONS AND ELEVATIONS

BLACKFORD COUNTY

The layout, surveys, adjustments, and publication of the following level lines have been developed by the staff of the Department of Natural Resources. All field survey records and publication procedures in the process of development of this list may be examined at the office of the Department in Indianapolis, Indiana. Requests for specific information pertaining to the surveys in this county, or others in the State, are accepted as a public service.

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER
INDIANAPOLIS, INDIANA

BLACKFORD COUNTY

July 9, 1998

The following elevations were determined during October 1961, June and July 1962, by leveling between U. S. Coast and Geodetic Survey benchmarks along the Salamonie River. The level line follows generally upstream along the Salamonie River from its mouth at Lagro (on the Wabash River) to the Blackford-Jay County Line. The listing of the marks follow in order upstream along the Salamonie River.

Second Order Levels were run by the three-wire method using invar-steel yard rods. All level circuits closed within allowable limits for second order leveling.

All levels were adjusted to agree with the standard elevations of bench marks as published by the U. S. Coast and Geodetic Survey whenever the adjustment required was within second order limits between published marks. All elevations in this line are based on the standard elevations for the following USC&GS bench marks; D 14 in Wabash county, S 203, Y 212, Z 212, P 202, N 202, A 213, M 202, Y 215, C 216, D 216 in Huntington County, M 214, N 214 in Wells County and L 215, P 215, Q 215, R 215 in Blackford County.

BENCH MARK DESCRIPTIONS
AND ELEVATIONS
BLACKFORD COUNTY

IFC&WRC TBM SR 82

In Wells County, Montpelier Quad., in the SE ¼ of Sec. 32, T. 25 N., R. 11 E., 2nd PM.; about 1.3 miles northwest of Montpelier; 0.7 mile north and west from the entrance to the Odd Fellows Cemetery at Montpelier to the Blackford-Wells County Line Road 18-foot single arch concrete bridge over Rhoton Ditch; set in top at the west end of the north guardrail, 265 feet west of a T-road south (400 East Road), 10 feet north of the centerline of the road, 3 feet east of the west end of the north guardrail, 2 feet above the road, 0.5 foot south of the north edge of the north guardrail; a chiseled triangle.

849.245 feet NGVD 1929

IFC&WRC TBM SR 83

In Blackford County, Montpelier Quad., in the SE ¼ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; at Montpelier; 0.37 mile south along 450 East Road from the entrance of the Odd Fellows Cemetery to a "T"-road east and a concrete box culvert under 450 East Road; set in the top at the north edge of the east headwall, 24 feet south of the center line of the "T"-road east, 14 feet east of the center line of 450 East Road, 0.8 foot south of the north edge of the east headwall, 0.6 foot east of the west edge of the east headwall, 0.4 foot above the ground, level with the road; a chiseled triangle.

869.864 feet NGVD 1929

IFC&WRC BM BLA 2, 1960

In Blackford County, Montpelier Quad., in the SE ¼ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; at Montpelier; at the State Road 303 bridge over the Salamonie River at Montpelier; set in the top of the southwest bridge seat abutment, 11 feet northwest of the centerline of the road, 2.0 feet southwest of the northeast edge of the southwest bridge seat abutment, 1.5 feet below the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "BLA 2 1960".

To be destroyed 2/4/76

851.076 feet NGVD 1929

USC&GS BM L 215, 1947

In Blackford County, Montpelier Quad., in the SE ¼ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; at Montpelier; 0.1 mile west of the post office to the crossing of the New York, Chicago and St. Louis Railroad; set in the top of a concrete post, 50 feet north of the centerline of the road, 17.5 feet southeast of the southeast rail, 12 feet northwest of the centerline of a drive paralleling the track, 4 feet north of a telegraph pole, 1.5 feet northwest of a telephone pole, 1.5 feet southwest of a white wooden witness post, 0.5 foot above the ground; a US Coast and Geodetic Survey bronze disk, stamped "L 215 1947".

864.231 feet NGVD 1929

IFC&WRC TBM SR 84

In Blackford County, Montpelier Quad., in the SE ¼ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; at Montpelier; at the State Road 303 crossing of the New York, Chicago, and St. Louis Railroad; set in the west-southwest edge of a 5 x 5-foot headwall around a well, 34 feet northeast of the centerline of the road, 7 feet west-northwest of the Hoosier Grain and Supply Company warehouse, 3.3 feet east-southeast of the east-southeast rail of the east-southeast set of rails of the New York, Chicago and St. Louis Railroad, 3.0 feet west of a power pole (E 8), 1.0 foot above the ground; a chiseled triangle.

862.418 feet NGVD 1929

IFC&WRC TBM SR 85

In Blackford County, Montpelier Quad., in the SW ¼ of Sec. 3, T. 24 N., R. 11 E., 2nd PM.; at Montpelier; at the junction of High Street and State Road 18 at the east side of Montpelier; set in the southwest side of a 12-inch Walnut tree, 125 feet west of the extended center line of the west-southwest road, 14 feet northeast of the centerline of High Street, 1.0 foot above the ground, level with the road; a boat spike driven through an aluminum tag, stamped "TBM SR 85 1962".
862.203 feet NGVD 1929

USC&GS BM P 215, 1947

In Blackford County, Montpelier Quad., in the SE ¼ of Sec. 3, T. 24 N., R. 11 E., 2nd PM.; about 1.0 mile east of Montpelier; at the State Road 18 bridge over the Salamonie River; set in the top at the east end of the south concrete railing, 12 feet south of the centerline of the road, 3.5 feet above the road, 2 feet west of the east end of the south railing; a US Coast and Geodetic Survey bronze disk, stamped "P 215 1947".
861.163 feet NGVD 1929

USC&GS BM Q 215, 1947

In Blackford County, Petroleum Quad., in the SW ¼ of Sec. 1, T. 24 N., R. 11 E., 2nd PM.; about 2.0 miles east of Montpelier; at the intersection of State Road 18 and a gravel 700 East road to the north and a black top Balbec Road to the southeast, in the southeast quarter of the junction; set in the top of a concrete post, 48 feet south of the center line of the blacktop road, 8 feet southeast of a power pole, 4.5 feet east of a fence corner, 2 feet below State Road 18, 1 foot west of a white wooden witness post, 0.5 foot above the ground; a US Coast and Geodetic Survey bronze disk, stamped "Q 215 1947"
866.849 feet NGVD 1929

USC&GS BM R 215, 1947

In Blackford County, Petroleum Quad., in the SW ¼ of Sec. 6, T. 24 N., R. 12 E., 2nd PM.; about 3.0 miles east of Montpelier; at the intersection of State Road 18 and a gravel 800 East Road, in the northeast quarter of the intersection; set in the top of a concrete post, 52 feet east of the centerline of the gravel 800 East Road, 41 feet north of the centerline of State Road 18, 16.5 feet east of a 36-inch Oak tree, 1.5 feet west of a wooden witness post, 1.5 feet below State Road 18, 1.0 foot south of a fence line, 0.5 foot above the ground; a US Coast and Geodetic Survey bronze disk, stamped "R 215 1947"
878.374 feet NGVD 1929

IFC&WRC TBM SR 86, 1962

In Blackford County, Petroleum Quad., in the SE ¼ of Sec. 12, T. 24 N., R. 11 E., 2nd PM.; about 3.0 miles east of Montpelier; at the intersection of a gravel 800 East Road and a paved Balbec Road, in the southwest quarter of the intersection; set in the west side of a 50-inch Oak tree, 40 feet south of the centerline of the paved Balbec Road, 20 feet west of the centerline of the gravel 800 East Road, 0.8 foot above the ground, 0.2 foot below the road; a boat spike driven through an aluminum tag, stamped "TBM SR 86 1962".

874.486 feet NGVD 1929

IFC&WRC BM BLA 3, 1960

In Blackford County, Petroleum Quad., in the SW ¼ of Sec. 7, T. 24 N., R. 12 E., 2nd PM.; about 3.3 miles east-southeast of Montpelier; at the Avenue one-span concrete arch bridge over Stoney Creek; set in the top of the south wingwall, 9 feet southwest of the centerline of the road, 0.6 foot northwest of the southeast edge of the southwest guardrail, 0.5 foot above the road; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "BLA 3 1960".

862.282 feet NGVD 1929

For the marks at Blackford-Jay County Line see Jay County benchmarks.

IFC&WRC BM BLA 1, 1960

In Blackford County, Montpelier Quad., in the NW ¼ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; about 0.8 mile northwest of Montpelier; 0.15 mile north along 450 East Road from the entrance to the Odd Fellows Cemetery at Montpelier to a 9-foot concrete box culvert at a right angle turn west in the road, in the southwest corner of the bend; set in the top at the southeast end of the southwest headwall, 60 feet west of the extended centerline of 450 East Road, 28 feet south of the extended center line of the east-west road (Blackford-Wells County Line Road), 1.0 foot above the road, 0.85 foot northwest of the southeast end of the southwest headwall; a Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "BLA 1 1960."

~~856.615 feet NGVD 1929~~ Superseded

IFC&WRC BM BLA 1 RESET 1972

In Blackford County, Montpelier Quad., in the SW $\frac{1}{4}$, Sec. 33, T. 25N., R. 11 E., about 0.8 mile northwest of Montpelier; 0.15 mile north along 450 East Road from the entrance to the Odd Fellows Cemetery at Montpelier to a right angle turn west; set in the top of the west end of the north headwall of a 3-foot box culvert in the northwest quarter of the turn, 60 feet west of the north-south centerline tangent of the curve, 11 feet north of the east-west centerline tangent of the curve, 1 foot east of the west end of the headwall; a Indiana Flood Control and Water Resources Commission brass bench mark tablet, stamped "BLA 1 RESET 1972".

856.745 feet N.G.V.D. 1929

DNR TBM SR 1, 1990

In Blackford County, Montpelier Quad., in the West $\frac{1}{2}$ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; about 0.5 mile northeast of Montpelier; about 0.45 mile southeast and then northeast along Cummins Road to the Arthur W. Carnes residence (# 5493 E. Cummins Road) on the northwest side of the road; set in the north side of utility pole # BL 579, 450 feet southwest of the centerline of the drive to the residence, 17.4 feet northwest of the centerline of the road, 0.9 foot above the ground; a railroad spike driven through a aluminum tag, stamped "IDNR TBM SR 1 1990".

THIRD ORDER

850.596 feet N.G.V.D. 1929

DNR TBM SR 2, 1990

In Blackford County, Montpelier Quad., in the West $\frac{1}{2}$ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; about 0.5 mile northeast of Montpelier; about 0.45 mile southeast and then northeast along Cummins Road to the Arthur W. Carnes residence (# 5493 E. Cummins Road) on the northwest side of the road; set in the southwest side of utility pole # E 11, 16.0 feet northeast of the centerline of the drive to the residence, 14.8 feet northwest of the centerline of the road, 0.8 foot above the ground; a railroad spike driven through a aluminum tag, stamped "IDNR TBM SR 2 1990".

THIRD ORDER

851.916 feet N.G.V.D. 1929

DNR TBM SC 3, 1990

In Blackford County, Montpelier Quad., in the West ½ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; about 0.5 mile northeast of Montpelier; about 0.45 mile southeast and then northeast along Cummins Road to the Arthur W. Carnes residence (# 5493 E. Cummins Road) on the northwest side of the road; set in the south side of a 30 inch Oak tree, 170.0 feet southwest of the southwest corner of a barn, 120.0 feet northwest of the centerline of the road, 1.2 feet above the ground; a 16 penny nail.

THIRD ORDER

851.007 feet N.G.V.D. 1929

DNR TBM SR 4, 1990

In Blackford County, Montpelier Quad., in the SE ¼ of Sec. 3, T. 24 N., R. 11 E., 2nd PM.; about 1.0 mile east of Montpelier; near the southeast corner of the State Road 18 three arch bridge over the Salamonie River; set in the north side of power pole # BL 5160, 31 feet south of the centerline of the road, 18 feet east of the centerline of a asphalt private drive, 1.0 foot above the ground; a railroad spike driven through a aluminum tag, stamped "IDNR TBM SR 4 1990".

THIRD ORDER

857.671 feet N.G.V.D. 1929

DNR TBM SAL 1, 1989

In Blackford County, Montpelier Quad., in the NE ¼ of Sec. 4, T. 24 N., R. 11 E., 2nd PM.; at Montpelier; 0.37 mile south along 450 East Road from the entrance of the Odd Fellows Cemetery to a "T"-road east, thence 0.25 mile east to the Krieg's strawberry farm, at the northeast corner of the farm; set in the top of the east end of a concrete headwall of a field drain outlet; a chiseled square.

THIRD ORDER

841.285 feet N.G.V.D. 1929

IDOH BM Not Stamped

In Blackford County, Petroleum Quad., in NE ¼ of a large unnamed grant, T. 24 N., R. 12 E., 2nd P. M.; about 3 miles northwest of Pennville; at the Blackford/Jay County Line Road bridge over the Salamonie River; set on the top of the southwest concrete bridge abutment, 15.5 feet west of the centerline of County Line Road, 1.0 foot north of the south end of the abutment, about level with the road; a Indiana Department of Highways BM tablet, (not stamped).

THIRD ORDER

870.93 feet N.G.V.D. 1929

IDOH BM No Stamping

In Blackford County, Montpelier Quad., in SE ¼ of Section 3, T. 24 N., R. 11 E., 2nd P. M.; at Matamoras; at the State Road 18 bridge over the Salamonie River; set on the top of the west end of the south concrete guardrail of the bridge, 23.5 feet south of the centerline of State Road 18, 16.5 feet east of the west end of the south concrete guardrail, 10.5 feet northeast of a power pole, about 2.8 feet above the highway; a Indiana Department of Highways BM, tablet (no stamping).

THIRD ORDER

861.67 feet N.G.V.D. 1929

SHCI BM BLA G 8

In Blackford County, Montpelier Quad., set in SE ¼ of Section 4, T. 24 N., R. 11 E., 2nd P. M.; at Montpelier; at the old State Road 303 bridge over the Salamonie River; set on top of the southwest concrete abutment of the bridge, 24 feet west of the centerline of the highway, 1.0 foot north of the south end of the abutment, about level with the road; a State Highway Commission of Indiana BM tablet stamped "BLA G8".

(Note: The stamping is very hard to read and it looks like the 8 is stamped over a 7)

THIRD ORDER

854.996 feet N.G.V.D. 1929