

SENATE FILE NO. SF0017

Plane coordinates system-amendments.

Sponsored by: Joint Transportation, Highways & Military
Affairs Interim Committee

A BILL

for

1 AN ACT relating to the plane coordinates system; updating
2 the plane coordinates system for Wyoming; providing for the
3 use of other datums, systems and networks for the system;
4 providing definitions; making conforming amendments;
5 repealing provisions related to obsolete coordinate
6 standards; and providing for an effective date.

7

8 *Be It Enacted by the Legislature of the State of Wyoming:*

9

10 **Section 1.** W.S. 34-25-109 is created to read:

11

12 **34-25-109. Definitions.**

13

14 (a) As used in this chapter:

15

1 (i) "Metadata" means data that describes other
2 data including utilized geodetic reference system data,
3 applicable epoch, statement or relative accuracy data and
4 date of observation data;

5

6 (ii) "NGS" means the national ocean service's
7 national geodetic survey of the national oceanic and
8 atmospheric administration, United States department of
9 commerce or its successor;

10

11 (iii) "NSRS" means the national spatial
12 reference system or its successor;

13

14 (iv) "Wyoming Plane Coordinate System" means the
15 system of plane coordinates under this chapter that is
16 identical to the state plane coordinate system as defined
17 for the state of Wyoming by NGS.

18

19 **Section 2.** W.S. 34-25-101(a), 34-25-102, 34-25-103
20 and 34-25-105 through 34-25-108 are amended to read:

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22 **34-25-101. System of plane coordinates adopted.**

23

1 (a) The ~~system~~ most recent version of the state plane
2 coordinates ~~which~~ coordinate system for the state of
3 Wyoming that has been established by ~~the office of National~~
4 Geodetic Survey, or its successors NGS, based on the NSRS
5 for defining and stating the positions or locations of
6 points on the surface of the earth within the state of
7 Wyoming ~~is adopted and hereafter~~ shall be known ~~and~~
8 ~~designated~~ as the "Wyoming Plane Coordinate System." ~~NAD~~
9 1983. The Wyoming Plane Coordinate System shall be named,
10 and in any land description in which it is used it shall be
11 designated, the "Wyoming Plane Coordinate System" and the
12 zone used shall be specified.

13

14 **34-25-102. Designation of coordinates.**

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16 The plane coordinates of a point on the earth's surface, to
17 be used in expressing the position or location of such
18 point in the appropriate zone of this system, shall consist
19 of two (2) ~~linear~~ distances, expressed in feet and decimals
20 of a foot, or meters ~~to the nearest millimeter and decimals~~
21 of a meter. One (1) of these distances, to be known as the
22 "east x-coordinate" ~~or "east coordinate,"~~ shall give the
23 ~~position in an~~ distance east ~~and west direction of the Y~~

1 axis; the other, to be known as the "north y-coordinate" ~~or~~
2 ~~"north coordinate,"~~ shall give the ~~position in a~~
3 ~~north and south direction.~~ These coordinates shall depend
4 ~~upon and conform to the coordinates, on the Wyoming~~
5 ~~Coordinate System NAD 1983 of the National Geodetic Survey,~~
6 ~~or its successors, within the state of Wyoming, as those~~
7 ~~coordinates have been determined by the survey.~~ distance
8 north of the X axis. The Y axis of any zone shall be
9 parallel with the central meridian of that zone. The X axis
10 of any zone shall be at right angles to the central
11 meridian of that zone. One (1) foot shall equal three
12 thousand forty-eight ten-thousandths (0.3048) of one (1)
13 meter and shall be used as the standard unit of measurement
14 for the Wyoming Plane Coordinate System. The official
15 geodetic datums to which geodetic coordinates are
16 referenced within the state of Wyoming including latitude,
17 longitude, ellipsoid height, orthometric height or dynamic
18 height shall be defined by the NSRS. Height is the
19 coordinate value of the vertical elements of the NSRS
20 expressed in feet and identified as ellipsoid height or
21 orthometric height.

22

23 **34-25-103. Land extending into other zones.**

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2 When any tract of land to be defined by a single
3 description extends from one (1) zone into ~~a second of the~~
4 ~~coordinate other~~ zones, ~~specified in W.S. 34-25-101,~~ the
5 positions of all the points on its boundaries ~~may~~ shall be
6 referred to ~~either of the two (2)~~ as only one (1) of the
7 zones, ~~and~~ the zone which is used shall be specifically
8 named in the description and the metadata of the
9 observations shall be included in the description.

10

11 **34-25-105. Recording coordinates.**

12

13 ~~No~~ Coordinates based on the Wyoming Plane Coordinate
14 System, ~~NAD 1983,~~ purporting to define the position of a
15 point on a land boundary, ~~shall~~ may be presented to be
16 recorded in any public land records or deed records in the
17 office of a county clerk. ~~unless a record and report of~~
18 ~~survey of the actual survey to establish the plane~~
19 ~~coordinates of the point has been filed with the county~~
20 ~~surveyor, the county engineer or the county clerk and in~~
21 ~~conformity with the standards prescribed in W.S. 34-25-104.~~
22 ~~When acceptable satellite survey techniques are employed, a~~
23 ~~minimum of two (2) independent observing sessions shall be~~

1 ~~executed and shall agree to not less than one (1) part in~~
2 ~~one hundred thousand (100,000) of the distance between the~~
3 ~~points. The procedures and results shall conform with the~~
4 ~~standards in W.S. 34-25-104.~~ The method and source for
5 establishing coordinates shall be described in the land or
6 deed record. In all instances where reference has been made
7 to coordinates in land surveys or deeds, the combined
8 factors shall be stated for the survey lines used in
9 computing ground distances and areas and the metadata of
10 observations shall be included in the record.

11

12 **34-25-106. Reference to system on maps.**

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14 The use of the term "Wyoming Plane Coordinate System" ~~NAD~~
15 ~~1983~~" on any map, report of survey or other document, shall
16 be limited to plane coordinates based on the Wyoming Plane
17 Coordinate System ~~NAD 1983~~ as defined in this chapter.

18

19 **34-25-107. Description in other surveys; conflicts.**

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21 Wherever coordinates based on the Wyoming Plane Coordinate
22 System ~~NAD 1983~~ are used to describe any tract of land
23 which in the same document is also described by reference

1 to any subdivision, line or corner of the United States
2 public land surveys, the description by plane coordinates
3 shall be construed as supplemental to the basic description
4 of ~~such~~the subdivision, line or corner contained in the
5 official plats and field notes filed of record, and in the
6 event of any conflict, the description by reference to the
7 subdivision, line or corner of the United States public
8 land surveys shall prevail over the description by plane
9 coordinates. Every recorded map, survey or conveyance, or
10 other instrument affecting title to real property which
11 delineates, describes or refers to such property or any
12 part thereof by reference to coordinates based upon the
13 Wyoming Plane Coordinate System ~~NAD-1983~~ shall also
14 describe the property by reference and tie to a controlling
15 corner monument of the United States public land surveys,
16 if applicable.

17

18 **34-25-108. Application.**

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20 (a) Nothing contained in this chapter shall require
21 any purchaser or mortgagee to rely on a description, any
22 part of which depends exclusively upon the Wyoming Plane
23 Coordinate System. ~~NAD-1983.~~

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2 (b) The provisions of this chapter shall not be
3 construed to:

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5 (i) Prohibit the appropriate use of other
6 datums, other geodetic reference networks or systems or
7 other plane coordinate systems;

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9 (ii) Require the revision of any survey, deed,
10 record or other document prepared or recorded before July
11 1, 2024 that uses the Wyoming Coordinate System NAD 1983 or
12 any other coordinate system previously authorized under
13 this chapter.

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15 **Section 3.** W.S. 34-25-101(b) and 34-25-104 are
16 repealed.

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18 **Section 4.** This act is effective July 1, 2024.

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(END)