

# WEST VIRGINIA LEGISLATURE

2024 REGULAR SESSION

2024 MAR 26 P 2:25  
OFFICE OF WEST VIRGINIA  
SECRETARY OF STATE

FILED

Enrolled

Committee Substitute

for

**Senate Bill 540**

BY SENATOR WOODRUM

[Passed March 6, 2024; in effect 90 days from  
passage (June 4, 2024)]

SB 540



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1 AN ACT to amend and reenact §1-1-5 of the Code of West Virginia, 1931, as amended, relating  
2 to updating the West Virginia coordinate systems.

*Be it enacted by the Legislature of West Virginia:*

**ARTICLE 1. LIMITS AND JURISDICTION.**

**§1-1-5. West Virginia coordinate systems; definitions; plane coordinates, limitations of use; conversion factor for meters to feet; official geodetic datum.**

1 (a) The following acronyms used throughout this section shall have the following  
2 meanings:

3 (1) "FGDC" means the Federal Geographic Data Committee or its successors;

4 (2) "NSRS" means the National Spatial Reference System or its successors;

5 (3) "NGS" means the National Geodetic Survey or its successors;

6 (4) "SPCS" means the State Plane Coordinate System or its successors; and

7 (5) "WVCS" means the West Virginia Coordinate System.

8 (b) The most recent system of plane coordinates which has been established by the NGS,  
9 based on the NSRS, and known as the SPCS, for defining and stating the positions or locations  
10 of points within West Virginia shall be known and designated as the West Virginia Coordinate  
11 System.

12 (c) The plane coordinate values used to express the position or location of a point in this  
13 system shall consist of two distances, expressed in feet and decimals of a foot or in meters and  
14 decimals of a meter. One of these distances, to be known as the x-coordinate, shall give the  
15 position in an east-and-west direction. The other, to be known as the y-coordinate, shall give the  
16 position in a north-and-south direction.

17 (d) The associated factor of one meter equals 1/0.3048 feet shall be used in any  
18 conversion necessitated by changing values from meters to feet.

19 (e) Information and mathematical data for defining the WVCS, and previous versions  
20 thereof, including but not limited to, the West Virginia Coordinate System of 1927 and the West

21 Virginia Coordinate System of 1983, and information and mathematical data for translating or  
22 converting coordinates between the WVCS and the previous versions thereof, shall be the  
23 information and data published by the NGS for such purposes.

24 (f) For purposes of describing the location of any survey station in the State of West  
25 Virginia, it shall be considered a complete, legal, and satisfactory description of the location to  
26 give the position of the survey station on the WVCS as defined in this section.

27 (g) Any survey that establishes WVCS coordinates to express definite positions, which is  
28 to be used or relied upon by any federal, state, or local government entity, or by the public  
29 generally, shall be performed:

30 (1) By a professional surveyor licensed to practice surveying in the State of West Virginia  
31 pursuant to §30-13A-1 *et seq.* of this code;

32 (2) In compliance with all other laws, rules, or regulations governing surveying in the State  
33 of West Virginia; and

34 (3) In compliance with the Geospatial Positioning Accuracy Standards established and  
35 published by the FGDC, and in effect at the time the survey is performed.

36 (h) In addition to any other requirements imposed by law, rule or regulation, any map,  
37 plat, report, description or geospatial product that claims to report WVCS coordinates to express  
38 definite positions, to be used or relied upon by any federal, state, or local government entity, or  
39 by the public generally, shall show, or have attached thereto, metadata that meets the  
40 requirements established by the FGDC in effect at the time the map, plat, report, description, or  
41 geospatial product was produced, including a description of the methodology used to establish  
42 the WVCS coordinate values reported that is adequate for users to evaluate the accuracy of the  
43 coordinates.

44 (i) For purposes of describing the location of any land boundary corner in the State of West  
45 Virginia, it shall be considered a complete, legal, and satisfactory description of the location to  
46 give the position of the land boundary corner on the WVCS as required in this section, in addition

47 to other location information as may otherwise be required by law, rule, or regulation: *Provided,*  
48 That nothing contained in this section requires a purchaser or mortgagee of real property to rely  
49 wholly on a land description, any part of which depends exclusively upon the WVCS.

50 (j) No coordinates based on the WVCS, purporting to define the position of a point on a  
51 land boundary, may be presented to be recorded in any public records or deed records unless a  
52 certification is attached thereto and, recorded simultaneously therewith, certifying the coordinates  
53 were established in compliance with the laws, rules, and regulations governing surveying in West  
54 Virginia by a professional surveyor licensed to practice surveying in West Virginia pursuant to  
55 §30-13A-1 *et seq.* of this code.

56 (k) A plat and a description of survey purporting to define the position of a point on a land  
57 boundary by the use of the WVCS must show the following:

58 (1) The accuracy of the coordinates stated at the 95 percent confidence level and in  
59 compliance with the Geospatial Positioning Accuracy Standards established and published by the  
60 FGDC in effect at the time of the survey. The coordinate accuracies reported by the surveyor shall  
61 take into account the network accuracy of existing control, as well as additional systematic effects;

62 (2) The applicable datum, datum tag, epoch date in a decimal year format, and the zone  
63 that are the basis of the coordinates. The datum, datum tag, epoch date, and zone shall be as  
64 published by the NGS and shall be shown by an appropriate note, or by suffix such as "NAD83  
65 (2011) epoch 2010.00, WVCS, South Zone"; and

66 (3) The signature and seal of the professional surveyor licensed to practice surveying in  
67 West Virginia pursuant to §30-13A-1 *et seq.* of this code.

68 (l) The use of the term "West Virginia Coordinate System" on any map, report, or survey,  
69 or other document shall be limited to coordinates based on the WVCS as defined in this section.

70 (m) Nothing in this section prevents the recording in any public record of any deed, map,  
71 plat, survey, description, or of any other document or writing of whatever nature which would  
72 otherwise constitute a recordable instrument or document even though the same is not based

73 upon or done in conformity with the WVCS established by this section, nor does nonconformity  
74 with the WVCS invalidate any deed, map, plat, survey, description, or other document which is  
75 otherwise proper.

76 (n) The official geodetic datums to which geodetic coordinates (including, but not limited  
77 to, latitude, longitude, ellipsoid height, orthometric height, or dynamic height) are referenced within  
78 the State of West Virginia shall be as defined for the NSRS.

79 (o) Any map, plat, report, description, or geospatial product that establishes or reports  
80 geodetic positions referenced to the NSRS for the purpose of expressing definite positions that is  
81 to be used by or relied on by any federal, state, or local government entity or by the public  
82 generally shall comply with the accuracy and reporting requirements set forth above for the  
83 WVCS.

84 (p) The provisions of this chapter may not be construed to prohibit the appropriate use of  
85 other coordinate systems, datums, and other geodetic reference networks.



The Clerk of the Senate and the Clerk of the House of Delegates hereby certify that the foregoing bill is correctly enrolled.

*Joe Linn*  
.....  
Clerk of the Senate

*Steve Harrison*  
.....  
Clerk of the House of Delegates

FILED  
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OFFICE OF WEST VIRGINIA  
SECRETARY OF STATE

Originated in the Senate.

In effect 90 days from passage.

*G.P. Bess*  
.....  
President of the Senate

*Les Jordan*  
.....  
Speaker of the House of Delegates

The within is *approved* this the *26th*  
Day of *March* 2024.

*James Justice*  
.....  
Governor



PRESENTED TO THE GOVERNOR

MAR 11 2024

~~Time~~ 2:09 PM