

DATA-02-01-S

State CIO Adopted: September 2025

TSB Approved: September 2025

Sunset Review: September 2028



Replaces:

IT Standard 161.01

Geodetic Control Data Standard

July 26, 2019

## GEODETIC CONTROL DATA STANDARD

**See Also:**

RCW [43.105.054](#) WaTech Governance

RCW [43.105.020](#) (22) "State agency"

1. Agencies will use the following Geodetic Control Data Standards for significant new or redesigned agency geospatial datasets, geographic information systems, and data exchanges.

| Geodetic Control              | State Standard                                                | Owner/<br>Primary Steward |
|-------------------------------|---------------------------------------------------------------|---------------------------|
| Horizontal Datum              | NAD 83/92 - North American Datum of 1983, with 91 adjustments | NGS                       |
| State Plane Coordinate System | Washington Coordinate System of 1983                          | DNR                       |
| Vertical Datum                | NAVD 88 - North American Vertical Datum of 1988               | NGS                       |

2. The North American Datum 1983 (NAD 83) with 1991 (NAD 83/91) adjustments will be the state standard for Horizontal Datum.

- a. Reference datum and adjustments in metadata.

3. The Washington Plane Coordinate System will be the coordinate system in Washington, per RCW 58.20.

- a. The standard unit of measure is the U.S. Survey Foot.

- b. For conversion of coordinates between the meter and the United States survey foot, one foot equals 0.3048 meters, per RCW 58.20.185, Standard Value - one foot.

c. Use Washington Plane Coordinate System South Zone for Statewide Layers and for layers that are both in the South and North Zones. See FIPS: 4602; WKID: 2927.

d. Use South Zone for layers that are not in the North Zone. The area now included in the following counties will constitute the south zone:

- i. Adams
- ii. Asotin
- iii. Benton
- iv. Clark
- v. Columbia
- vi. Cowlitz
- vii. Franklin
- viii. Garfield
- ix. That part of Grant lying south of parallel 47° 30' north latitude
- x. Grays Harbor
- xi. Kittitas
- xii. Klickitat
- xiii. Lewis
- xiv. Mason
- xv. Pacific
- xvi. Pierce
- xvii. Skamania
- xviii. Thurston
- xix. Wahkiakum
- xx. Walla Walla
- xxi. Whitman
- xxii. Yakima

e. Use Washington Plane Coordinate System North Zone for layers that are not in the South Zone (FIPS: 4601; WKID: 2926). The area now included in the following counties will be considered the North Zone:

- i. Chelan
- ii. Clallam
- iii. Douglas

- iv. Ferry
- v. Island
- vi. Jefferson
- vii. King
- viii. Kitsap
- ix. Lincoln
- x. Okanogan
- xi. Pend Oreille
- xii. San Juan
- xiii. Skagit
- xiv. Snohomish
- xv. Spokane
- xvi. Stevens
- xvii. Whatcom
- xviii. That part of Grant lying north of the parallel 47 30' north latitude

**4. The North American Vertical Datum of 1988 (NAVD 88) will be the state standard for vertical datum.**

- a. National Geodetic Survey (NGS) Geodetic Tool Kit provides various free online interactive and downloadable software programs and tools for computing, converting, and adjusting geospatial data. See National Oceanic and Atmospheric Administration NGS <http://www.ngs.noaa.gov/>.
- b. VDatum is a free software tool designed to vertically transform geospatial data among a variety of tidal, orthometric, and ellipsoidal vertical datums. See National Oceanic and Atmospheric Administration VDatum <http://vdatum.noaa.gov>.

**REFERENCES**

- 1. Link to reference.
- 2. Definition of Terms Used in WaTech Policies and Reports.

**CONTACT INFORMATION**

- For questions about this policy, please email the [WaTech Policy Mailbox](#).
- For technical assistance, please email [confirmemail@watech.wa.gov](mailto:confirmemail@watech.wa.gov).