

734-005-0015

Coordinate System Parameters

(1) Oregon State Plane Coordinate System Of 1927

(a) North Zone

North American Datum of 1927

Reference Ellipsoid: Clarke Spheroid of 1866

Projection: Lambert Conformal Conic (Two Standard Parallel - Secant)

Central Meridian: 120° 30' West

Latitude of Origin: 43° 40' North

Standard Parallel (South): 44° 20' North

Standard Parallel (North): 46° 00' North

False Northing: 0 US Survey Feet

False Easting: 2 000 000 US Survey Feet

One U.S. Survey foot = 1200/3937 meters exactly

County Coverage of North Zone:

The area included in the following counties on June 16, 1945, constitutes the north zone: Baker, Benton, Clackamas, Clatsop, Columbia, Gilliam, Grant, Hood River, Jefferson, Lincoln, Linn, Marion, Morrow, Multnomah, Polk, Sherman, Tillamook, Umatilla, Union, Wallowa, Wasco, Washington, Wheeler and Yamhill.

(b) South Zone

North American Datum of 1927

Reference Ellipsoid: Clarke Spheroid of 1866

Projection: Lambert Conformal Conic (Two Standard Parallel - Secant)

Central Meridian: 120° 30' West

Latitude of Origin: 41° 40' North

Standard Parallel (South): 42° 20' North

Standard Parallel (North): 44° 00' North

False Northing: 0 US Survey Feet

False Easting: 2 000 000 US Survey Feet

One U.S. Survey foot = 1200/3937 meters exactly

County Coverage of South Zone:

The area included in the following counties on June 16, 1945, constitutes the south zone: Coos, Crook, Curry, Deschutes, Douglas, Harney, Jackson, Josephine, Klamath, Lake, Lane and Malheur.

(2) Oregon State Plane Coordinate System Of 1983

(a) North Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Two Standard Parallel - Secant)

Central Meridian: 120° 30' West

Latitude of Origin: 43° 40' North

Standard Parallel (South): 44° 20' North

Standard Parallel (North): 46° 00' North

False Northing: 0.000 meters

False Easting: 2 500 000.000 meters

One International Foot = 0.3048 meters exactly

County Coverage of North Zone:

The area included in the following counties on June 16, 1945, constitutes the north zone: Baker, Benton, Clackamas, Clatsop, Columbia, Gilliam, Grant, Hood River, Jefferson, Lincoln, Linn, Marion, Morrow, Multnomah, Polk, Sherman, Tillamook, Umatilla, Union, Wallowa, Wasco, Washington, Wheeler and Yamhill.

(b) South Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Two Standard Parallel - Secant)

Central Meridian: 120° 30' West

Latitude of Origin: 41° 40' North

Standard Parallel (South): 42° 20' North

Standard Parallel (North): 44° 00' North

False Northing: 0.000 meters

False Easting: 1 500 000.000 meters

One International Foot = 0.3048 meters exactly

County Coverage of South Zone:

The area included in the following counties on June 16, 1945, constitutes the south zone: Coos, Crook, Curry, Deschutes, Douglas, Harney, Jackson, Josephine, Klamath, Lake, Lane and Malheur.

(3) Oregon Coordinate Reference System Zones

(a) Baker Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 44°30'00" North

Central Meridian: 117°50'00" West

False Northing: 0 meters

False Easting: 40 000 meters

Central Meridian Scale: 1.000 160 (exact)

One International Foot = 0.3048 meters exactly

(b) Bend-Burns Zone (former name: Bend-Vale Zone)

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel - Tangent)

Standard Parallel and Grid Origin: 43°40'00" North

Central Meridian: 119°45'00" West

False Northing: 60 000 meters

False Easting: 120 000 meters

Standard Parallel Scale: 1.000 200 (exact)

One International Foot = 0.3048 meters

(c) Bend-Klamath Falls Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 41°45'00" North

Central Meridian: 121°45'00" West

False Northing: 0 meters

False Easting: 80 000 meters

Central Meridian Scale: 1.000 200 (exact)

One International Foot = 0.3048 meters

(d) Bend-Redmond-Prineville Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel - Tangent)

Standard Parallel & Grid Origin: 44°40'00" North

Central Meridian: 121°15'00" West

False Northing: 130 000 meters

False Easting: 80 000 meters

Standard Parallel Scale: 1.000 120 (exact)

One International Foot = 0.3048 meters

(e) Burns-Harper Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 43°30'00" North

Central Meridian: 117°40'00" West

False Northing: 0 meters

False Easting: 90 000 meters

Central Meridian Scale: 1.000 140 (exact)

One International Foot = 0.3048 meters

(f) Canyon City-Burns Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 43°30'00" North

Central Meridian: 119°00'00" West

False Northing: 0 meters

False Easting: 20 000 meters

Central Meridian Scale: 1.000 220 (exact)

One International Foot = 0.3048 meters

(g) Canyonville-Grants Pass Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 42°30'00" North

Central Meridian: 123°20'00" West

False Northing: 0 meters

False Easting: 40 000 meters

Central Meridian Scale: 1.000 070 (exact)

One International Foot = 0.3048 meters

(h) Coast Range North Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 45°35'00" North

Central Meridian: 123°25'00" West

False Northing: 20 000 meters

False Easting: 30 000 meters

Standard Parallel Scale: 1.000 045 (exact)

One International Foot = 0.3048 meters

(i) Columbia River East Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 45°40'00" North

Central Meridian: 120°30'00" West

False Northing: 30 000 meters

False Easting: 150 000 meters

Standard Parallel Scale: 1.000 008 (exact)

One International Foot = 0.3048 meters

(j) Columbia River West Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Oblique Mercator (Rectified Skewed Orthomorphic)

Latitude of Local Origin: 45°55'00" North

Longitude of Local Origin: 123°00'00" West

Skew Axis Azimuth at Origin: -65° 00' 00"

False Northing: -3 000 000 meters

False Easting: 7 000 000 meters

Projection Skew Axis Scale: 1.000 000 (exact)

One International Foot = 0.3048 meters

(k) Cottage Grove-Canyonville Zone
North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 42°50'00" North
Central Meridian: 123°20'00" West
False Northing: 0 meters
False Easting: 50 000 meters
Central Meridian Scale: 1.000 023 (exact)
One International Foot = 0.3048 meters

(L) Dayville-Prairie City Zone
North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 44°15'00" North
Central Meridian: 119°38'00" West
False Northing: 0 meters
False Easting: 20 000 meters
Central Meridian Scale: 1.000 120 (exact)
One International Foot = 0.3048 meters

(m) Denio-Burns Zone
North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 41°45'00" North
Central Meridian: 118°25'00" West
False Northing: 0 meters
False Easting: 80 000 meters
Central Meridian Scale: 1.000 190 (exact)
One International Foot = 0.3048 meters

(n) Dufur-Madras Zone
North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 44°30'00" North
Central Meridian: 121°00'00" West
False Northing: 0 meters
False Easting: 80 000 meters
Central Meridian Scale: 1.000 110 (exact)
One International Foot = 0.3048 meters

(o) Eugene Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 43°45'00" North

Central Meridian: 123°10'00" West

False Northing: 0 meters

False Easting: 50 000 meters

Central Meridian Scale: 1.000 015 (exact)

One International Foot = 0.3048 meters

(p) Grants Pass-Ashland Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 41°45'00" North

Central Meridian: 123°20'00" West

False Northing: 0 meters

False Easting: 50 000 meters

Central Meridian Scale: 1.000 043 (exact)

One International Foot = 0.3048 meters

(q) Gresham-Warm Springs Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 45°00'00" North

Central Meridian: 122°20'00" West

False Northing: 0 meters

False Easting: 10 000 meters

Central Meridian Scale: 1.000 050 (exact)

One International Foot = 0.3048 meters

(r) Halfway Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 45°15'00" North

Central Meridian: 117°15'00" West

False Northing: 70 000 meters

False Easting: 40 000 meters

Standard Parallel Scale: 1.000 085 (exact)

One International Foot = 0.3048 meters

(s) La Grande Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 45°00'00" North

Central Meridian: 118°00'00" West

False Northing: 0 meters

False Easting: 40 000 meters

Central Meridian Scale: 1.000 130 (exact)

One International Foot = 0.3048 meters

(t) Medford-Diamond Lake Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 42°00'00" North

Central Meridian: 122°15'00" West

False Northing: -60 000 meters

False Easting: 60 000 meters

Standard Parallel Scale: 1.000 040 (exact)

One International Foot = 0.3048 meters

(u) Mitchell Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 47°00'00" North

Central Meridian: 120°15'00" West

False Northing: 290 000 meters

False Easting: 30 000 meters

Standard Parallel Scale: 0.999 270 (exact)

One International Foot = 0.3048 meters

(v) North Central Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 46°10'00" North

Central Meridian: 120°30'00" West

False Northing: 140 000 meters

False Easting: 100 000 meters

Standard Parallel Scale: 1.000 000 (exact)

One International Foot = 0.3048 meters

(w) Ochoco Summit Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 43°30'00" North

Central Meridian: 120°30'00" West

False Northing: -80 000 meters

False Easting: 40 000 meters

Standard Parallel Scale: 1.000 060 (exact)

One International Foot = 0.3048 meters

(x) Ontario Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 43°15'00" North

Central Meridian: 117°00'00" West

False Northing: 0 meters

False Easting: 80 000 meters

Central Meridian Scale: 1.000 100 (exact)

One International Foot = 0.3048 meters

(y) Oregon Coast Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Oblique Mercator (Rectified Skewed Orthomorphic)

Latitude of Local Origin: 44°45'00" North

Longitude of Local Origin: 124°03'00" West

Skew Axis Azimuth at Origin: +5° 00' 00"

False Northing: -4 600 000 meters

False Easting: -300 000 meters

Projection Skew Axis Scale: 1.000 000 (exact)

One International Foot = 0.3048 meters

(z) Owyhee Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 41°45'00" North

Central Meridian: 117°35'00" West

False Northing: 0 meters

False Easting: 70 000 meters

Central Meridian Scale: 1.000 180 (exact)

One International Foot = 0.3048 meters

(aa) Pendleton Zone

North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 45°15'00" North
Central Meridian: 119°10'00" West
False Northing: 0 meters
False Easting: 60 000 meters
Central Meridian Scale: 1.000 045 (exact)

One International Foot = 0.3048 meters

(bb) Pendleton-La Grande Zone

North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 45°05'00" North
Central Meridian: 118°20'00" West
False Northing: 0 meters
False Easting: 30 000 meters
Central Meridian Scale: 1.000 175 (exact)

One International Foot = 0.3048 meters

(cc) Pilot Rock-Ukiah Summit Zone

North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Lambert Conformal Conic (Single Parallel- Tangent)
Standard Parallel & Grid Origin: 46°10'00" North
Central Meridian: 119°00'00" West
False Northing: 130 000 meters
False Easting: 50 000 meters
Standard Parallel Scale: 1.000 025 (exact)

One International Foot = 0.3048 meters

(dd) Portland Zone

North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Lambert Conformal Conic (Single Parallel - Tangent)
Standard Parallel & Grid Origin: 45°30'00" North
Central Meridian: 122°45'00" West
False Northing: 50 000 meters
False Easting: 100 000 meters
Standard Parallel Scale: 1.000 002 (exact)

One International Foot = 0.3048 meters

(ee) Prairie City-Brogan Summit Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 44°00'00" North

Central Meridian: 118°00'00" West

False Northing: 0 meters

False Easting: 60 000 meters

Standard Parallel Scale: 1.000 170 (exact)

One International Foot = 0.3048 meters

(ff) Riley-Lakeview Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 41°45'00" North

Central Meridian: 120°20'00" West

False Northing: 0 meters

False Easting: 70 000 meters

Central Meridian Scale: 1.000 215 (exact)

One International Foot = 0.3048 meters

(gg) Salem Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 44°20'00" North

Central Meridian: 123°05'00" West

False Northing: 0 meters

False Easting: 50 000 meters

Central Meridian Scale: 1.000 010 (exact)

One International Foot = 0.3048 meters

(hh) Santiam Pass Zone (former name: Sweet Home-Sisters Zone)

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 44°05'00" North

Central Meridian: 122°30'00" West

False Northing: 0 meters

False Easting: 0 meters

Central Meridian Scale: 1.000 155 (exact)

One International Foot = 0.3048 meters

(ii) Siskiyou Pass Summit Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 42°30'00" North

Central Meridian: 122°35'00" West

False Northing: 60 000 meters

False Easting: 10 000 meters

Standard Parallel Scale: 1.000 150 (exact)

One International Foot = 0.3048 meters

(jj) Ukiah-Fox Summit Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 45°15'00" North

Central Meridian: 119°00'00" West

False Northing: 90 000 meters

False Easting: 30 000 meters

Standard Parallel Scale: 1.000 140 (exact)

One International Foot = 0.3048 meters

(kk) Wallowa Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Transverse Mercator

Latitude of Grid Origin: 45°15'00" North

Central Meridian: 117°30'00" West

False Northing: 0 meters

False Easting: 60 000 meters

Central Meridian Scale: 1.000 195 (exact)

One International Foot = 0.3048 meters

(LL) Warner Highway Zone

North American Datum of 1983

Reference Ellipsoid: Geodetic Reference System of 1980

Projection: Lambert Conformal Conic (Single Parallel- Tangent)

Standard Parallel & Grid Origin: 42°30'00" North

Central Meridian: 120°00'00" West

False Northing: 60 000 meters

False Easting: 40 000 meters

Standard Parallel Scale: 1.000 245 (exact)

One International Foot = 0.3048 meters

(mm) Willamette Pass Zone
North American Datum of 1983
Reference Ellipsoid: Geodetic Reference System of 1980
Projection: Transverse Mercator
Latitude of Grid Origin: 43°00'00" North
Central Meridian: 122°00'00" West
False Northing: 0 meters
False Easting: 20 000 meters
Central Meridian Scale: 1.000 223 (exact)

One International Foot = 0.3048 meters

Stat. Auth.: ORS 184.616, 184.619, Chapter 179 OL 2011

Stats. Implemented: ORS 209.130, 209.155, 209.250, 390.770 and Chapter 179 OL 2011