Central Oregon Coordinate System  
Description, Purpose and Parameters

The Central Oregon Coordinate System (COCS) is a mapping projection that covers Deschutes County Oregon and portions of Crook and Jefferson Counties. The Central Oregon Coordinate System is also known as the “C.O. Grid”.

A system that has a ground to grid difference of no more than 0.05 feet in 1000 feet in the least populated areas and 0.00 to 0.02 feet in 1000 feet in the major population area.

Purpose:
To help the local surveyor to perform precise survey work.
A continuous coordinate system for all surveys and maps.
In many cases no need to use a ground to grid factor.

Description:
The Central Oregon Coordinate System is based on the following data:

Horizontal:
  Datum:                NAD 83   (adjustment 1991)
  Projection:           Transverse Mercator
  Zone:                Central Oregon LCS
  Central Meridian:      W 121° 17’ 00.00”
  Latitude of Origin:     N 43° 00’ 00.00”
  Origin Northing:           0.00  feet
  Origin Easting:           3,300,000.00 feet
  Scale Along Meridian:      1.0001600
  Linear Units:           International Foot

Ortho Elevations are NGVD 29.

The C.O. Grid on-line research application web address is:
http://road.deschutes.org/cogrid/default.aspx

See next page for Section & Quarter Corner numbering diagram.
Central Oregon Coordinate System
Mark Naming System for Section & Quarter Corner

Mark names for PLSS corners are at least 8 digit identifiers. Some will have a 9th place designation such as A or B.

MARK NAME: 17122340A
17 12 23 4 0 A
  17 Township 17 South of the Willamette Base Line
  12 Range 12 East of the Willamette Principal Meridian
  23 Section 23
  4 4 X 10 chains North from SW. Cor. of Section 23.
  0 0 X 10 chains East from SW. Cor. of Section 23.
  A (Optional) Indicates more than one important corner in proximity.

Note: The 10 chains is more a fractional part than a distance.
All others marks such as tri-station and bench have Mark Names reflecting the name stamped on the monument or unique to that monument.

CORNER NUMBERING DIAGRAM

SECTION & QUARTER CORNER NAMING CONVENTION