Central Oregon Coordinate System

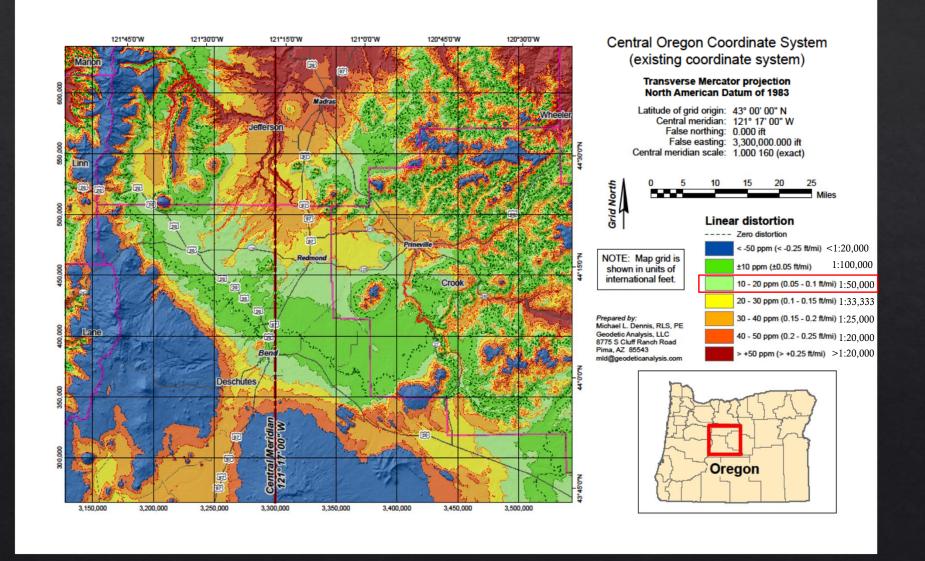
Oregon GNSS User Group

Developed by Bill Kauffman, PLS of Deschutes County between 1988 and 1991

Transverse Mercator Conformal Map Projection

Best fit for 80% of population area of Deschutes County

Grid to Ground < 1:50,000



Why do we still use COCS? LEGACY DATA

Original COCS - Public Land Corners



Deschutes09 14 transformation points

Deschutes09 - Public Land Corners



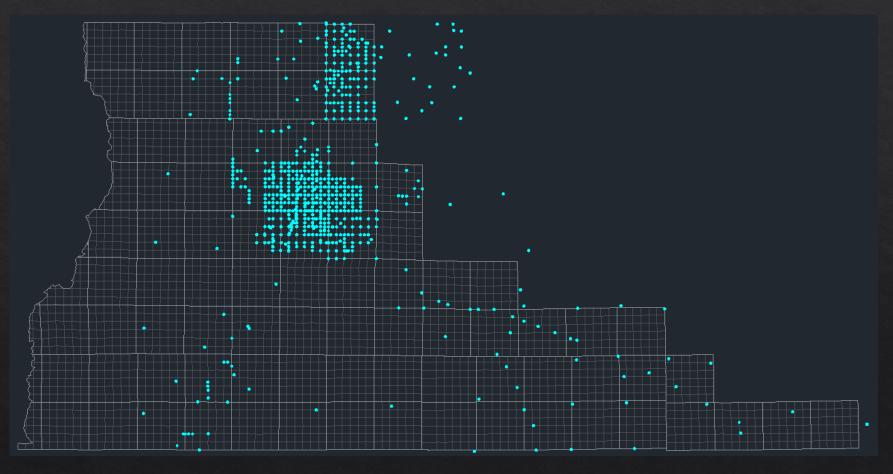
Deschutes13



Deschutes 13 - Public Land Corners



~500 Public Land Corners - combined



~300 plat checks since 2009

CAD drawings for plat/field checks

Every plat check conducted on COCS

GIS Indexing of plat boundaries on COCS per field check

Deschutes County Road Department

R/W retracement surveys

County Road Legalization surveys

County Road Design

R/W acquisitions

City of Bend

Engineering Division requires engineering drawings on COCS

City of Bend sewer and water systems designed/built to COCS

Many local firms use COCS as a default system of measurement

LEGACY DATA – 500 PUBLIC LAND CORNERS



REPEATABLE BY VARIED USERS OVER TIME

ONE SYSTEM, ENTIRE COUNTY

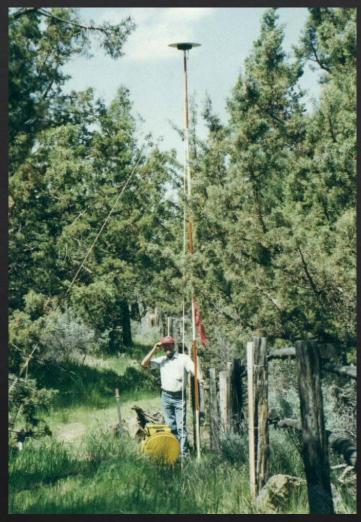
CURRENT WORK

4 hr static observation of transformation points – NGS shared

FUTURE WORK

Deschutes 25? - to align with NGS NATRF 2022





Bill Kauffman, PLS 1031 1942 - 2020