



Quaternary Faults and Folds in Wyoming

Compiled by
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 October, 2013

From
 Machette, M.N., Pierce, K.L., McCalpin, J.P., Haller, K.M., and
 Dart, R.L., 2001. Map and data for Quaternary faults and folds in
 Wyoming; U.S. Geological Survey Open-File Report 01-461.

EXPLANATION

QUATERNARY FAULTS (AGE)

- < 15,000 years
- < 130,000 years
- < 750,000 years
- < 1,600,000 years
- Class B

FOLDS

- Syncline (Class B)

Class B Faults

Geologic evidence demonstrates the existence of Quaternary deformation, but either 1) the fault might not extend deeply enough to be a potential source of significant earthquakes, or 2) the currently available geologic evidence is too strong to confidently sign the feature to Class C but not strong enough to assign it to Class A.

BASE MAP SYMBOLS

- ★ Capital
- ☆ County seat
- Town
- Interstate highway
- US highway
- State highway
- County or other road
- County boundary
- Wind River Reservation boundary
- Yellowstone National Park boundary
- State boundary

BASE MAP REFERENCES

Bureau of Indian Affairs, 2005, Boundaries—Indian Lands, Raw Data Release, December, 2005: National Atlas of the United States, at <http://nationalatlas.gov/>.
 National Oceanic and Atmospheric Administration, 1985, Digital magnetic declination: National Geophysical Data Center, at <http://www.ngdc.noaa.gov/geomagmodels/struts/calDeclination>.
 Stoesser, D.B., and others, 2005, Preliminary integrated geologic map databases for the United States—Central states—Montana, Wyoming, Colorado, New Mexico, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Iowa, Missouri, Arkansas, and Louisiana: U.S. Geological Survey Open-File Report 2005-1351, 18 p.
 U.S. Census Bureau, 1996, Cities, towns, census designated places of Wyoming at 1:1 00,000, at <http://wygl.wygis.org/wygeolib/catalog/main/home.page>.
 U.S. Census Bureau, 1997, Wyoming roads at 1:100,000, at <http://piny.wygis.org/wygeolib/catalog/main/home.page>.
 U.S. Geological Survey, 2002, The National Elevation Dataset: Photogrammetric Engineering and Remote Sensing, v. 68, no. 1, at <http://ned.usgs.gov>.
 Wyoming Geographic Information Science Center, 1997, Internet mapping service—Basemap data for Wyoming: Spatial Data and Visualization Center, at <http://wygl.wygis.org/wygeolib/catalog/main/home.page>.

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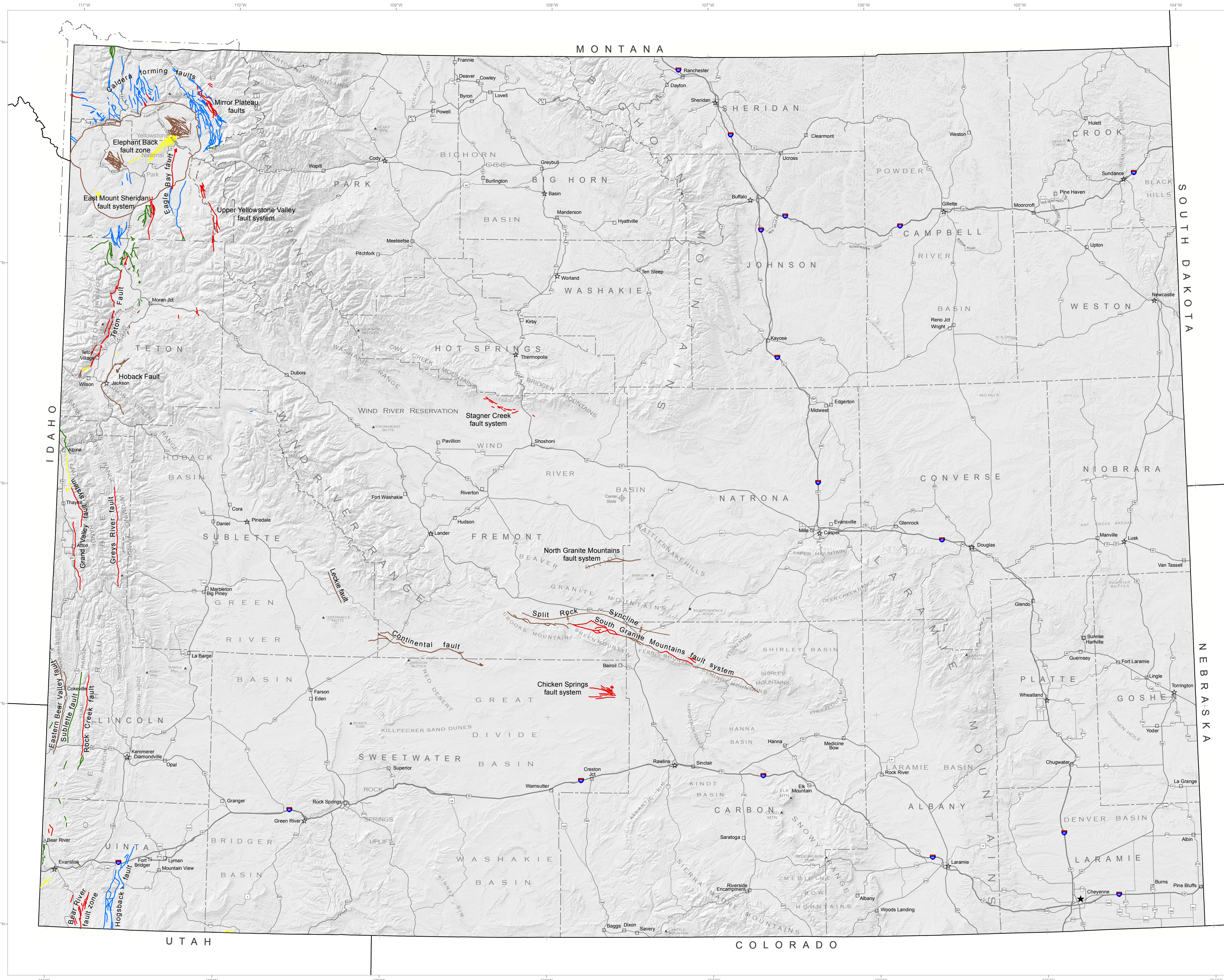
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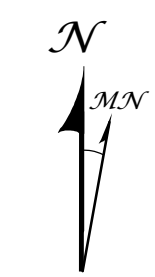
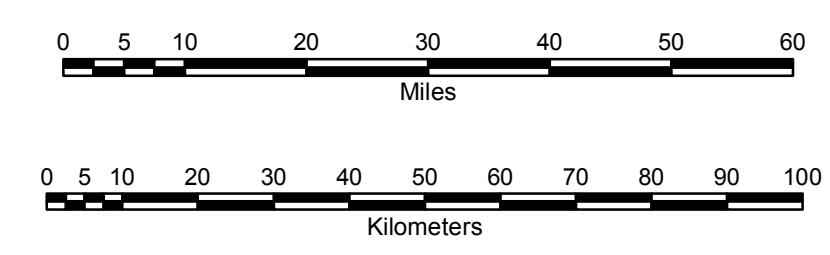
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Map Projection: Wyoming Lambert Conformal Conic
 False Easting: 500000, False Northing: 200000
 Central Meridian: 107.5 degrees West
 Standard Parallel 1: 41 degrees North
 Standard Parallel 2: 45 degrees North
 Latitude of Origin: 41 degrees North
 Linear Unit: Meter
 Horizontal Datum: North American Datum of 1983 (NAD 83)
 Ellipsoid: Geocentric Reference System 80
 Base hillshade derived from USDA/NRCS - National
 Cartography & Geospatial Center 10-meter Digital
 Elevation Model (DEM), 2000; azimuth 125°,
 sun angle 45°, vertical exaggeration 2

Scale 1:1,000,000



Magnetic Declination = 10° 17' E
 at center of map
 (Oct. 1, 2013)

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