


Map of Quaternary Faults and Folds of Wyoming

A project of International Lithosphere Program Task Group II-2, Major Active Faults of the World

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MAP EXPLANATION

| TIME OF MOST RECENT SURFACE RUPTURE | | STRUCTURE TYPE AND RELATED FEATURES | |
|---|--|---|----------------------------------|
| — | Historic (1959, Hegben earthquake) | | Synclinal fold |
| — | Holocene (<10,000 years) or post last glaciation (<15,000 years; 15 ka) | | Normal fault |
| — | Late Quaternary (<130,000; post penultimate glaciation) | | Fault section marker |
| — | Late and middle Quaternary (<750,000 years; 750 ka) | | Fault group boundary |
| — | Quaternary, undifferentiated (<1,600,000 years; <1.6 Ma) | | DETAILED STUDY SITES |
| — | Class B, suspect (shown in black on inset map) | | Trench site |
| | Area of no Quaternary faults or area unmapped | | Other site |
| SLIP RATE | | CULTURAL AND GEOGRAPHIC FEATURES | |
| — | 1.0-5.0 mm/year | | National Park boundary |
| — | 0.2-1.0 mm/year | | Primary highway |
| — | <0.2 mm/year | | Primary or secondary road |
| TRACE | | | Permanent river or stream |
| — | Mostly continuous at map scale | | Intermittent river or stream |
| — | Mostly discontinuous at map scale | | Permanent lake |
| — | Inferred or concealed | | Intermittent or dry lake (playa) |

DATA ON QUATERNARY FAULTS AND FOLDS IN WYOMING

Abbreviations: ka, thousands of years ago; Ma, millions of years ago. Reported length is straight line, from end to end. Class B structures are shown on map, and mentioned in text. Fault no. 745 not used on map or in database.

| Number | Name of structure | Primary 1° x 2° sheet | Most recent event | Slip rate (mm/yr) | Length (km) | Azimuth (average) | Fault type | Dip direction |
|--------|--|-----------------------|-------------------|-------------------|-------------|-------------------|------------|------------------|
| 657 | Red Canyon fault | ----- | ----- | ----- | 35.3 | N63°W | ----- | ----- |
| 657b | Richards Creek section | Driggs | <15 ka | <0.2 | 5.2 | N76°W | Normal | S |
| 657c | Maple Creek Section | Driggs | <750 ka | <0.2 | 4.0 | N73°W | Normal | S |
| 724 | Faults south of Blacktail Butte | Driggs | <130 ka | <0.2 | 1.5 | N9°W | Normal | W, E |
| 725 | Secondary faults in Jackson Hole Valley (Class B) | Driggs | <130 ka | <0.2 | 33.1 | N5°W | Normal | W, E |
| 726 | Grand Valley fault | ----- | ----- | ----- | 135.5 | N22°W | ----- | ----- |
| 726b | Grand Valley section | Driggs | <1.6 Ma | <0.2 | 30.9 | N29°W | Normal | SW |
| 726c | Unnamed section near Prater Mountain | Driggs | <130 ka | <0.2 | 17.2 | N7°W | Normal | W |
| 726d | Star Valley section | Preston | <15 ka | 0.2-1.0 | 51.5 | N8°W | Normal | W |
| 727 | Unnamed piedmont fault | Preston | <130 ka | <0.2 | 1.6 | N9°W | Normal | W, E |
| 728 | Greys River fault | Preston | <15 ka | 0.2-1.0 | 49.4 | N3°W | Normal | W |
| 729 | Rock Creek fault | Ogden | <15 ka | 0.2-1.0 | 40.5 | N5°E | Normal | W |
| 730 | Bear River fault zone | Ogden | <15 ka | 1.0-5.0 | 33.2 | N11°W | Normal | W, E |
| 731 | Absaroka fault | Ogden | <15 ka | 0.2-1.0 | 3.7 | N18°E | Normal | W |
| 732 | Hogsback fault | ----- | ----- | ----- | 52.4 | N7°E | ----- | ----- |
| 732a | Northern section | Ogden | <750 ka | 0.2-1.0 | 22.4 | N17°E | Normal | W |
| 732b | Southern section | Ogden | <750 ka | 0.2-1.0 | 38.3 | N4°E | Normal | W |
| 733 | Sublette Flat fault | Preston | <1.6 Ma | <0.2 | 36.0 | N10°E | Normal | W |
| 734 | Eastern Bear Valley fault (Class B) | Ogden | <1.6 Ma | <0.2 | 47.2 | N2°E | Normal | W |
| 735 | Western Bear Valley faults | Ogden | <1.6 Ma | <0.2 | 12.4 | N21°E | Normal | E |
| 736 | Elk Mountain fault | Ogden | <1.6 Ma | <0.2 | 7.8 | N20°E | Normal | W |
| 737 | North Bridger Creek fault | Ogden | <1.6 Ma | <0.2 | 4.2 | N17°E | Normal | W |
| 738 | Spring Creek fault | Ogden | <1.6 Ma | <0.2 | 2.3 | N25°E | Normal | W |
| 739 | The Pinnacle fault | Ogden | <1.6 Ma | <0.2 | 2.3 | N25°W | Normal | W |
| 740 | Ryckman Creek fault | Ogden | <1.6 Ma | <0.2 | 5.3 | N9°W | Normal | W |
| 741 | Whitney Canyon fault | Ogden | <15 ka | <0.2 | 5.5 | N18°W | Normal | W, E |
| 742 | Almy fault zone | Ogden | <1.6 Ma | <0.2 | 10.7 | N3°E | Normal | E |
| 743 | Duncomb Hollow fault | Ogden | <1.6 Ma | <0.2 | 2.4 | N44°W | Normal | E |
| 744 | Faults on north flank of Phil Pico Mountain | Rock Springs | <130 ka | <0.2 | 4.4 | N83°E | Normal | N |
| 746 | East Gallatin-Reese Creek fault system | ----- | ----- | ----- | 39.6 | N2°W | ----- | ----- |
| 746a | Reese Creek section | Ashton | <1.6 Ma | <0.2 | 13.5 | N5°E | Normal | E |
| 746b | East Gallatin section | Ashton | <750 ka | <0.2 | 26.9 | N13°W | Normal | E |
| 747 | Post-Lava Creek faults in NW Yellowstone National Park | Ashton | <750 ka | <0.2 | 49.2 | N23°W | Normal | E, W |
| 748 | Unnamed faults near Opal Creek | Ashton | <15 ka | <0.2 | 2.5 | N53°W | Normal | NE |
| 749 | Mirror Plateau faults | ----- | ----- | ----- | 23.5 | N39°W | ----- | ----- |
| 749a | Younger section | Ashton | <15 ka | 0.2-1.0 | 18.4 | N36°W | Normal | NE, SW |
| 749b | Older section | Ashton | <750 ka | <0.2 | 23.1 | N43°W | Normal | NE, SW |
| 750 | Unnamed faults in the Burnt-Raven Creek area | Ashton | <750 ka | <0.2 | 44.8 | N13°W | Normal | E to NE, W to SW |
| 751 | Shoshone Lake faults | Ashton | <750 ka | <0.2 | 6.0 | N15°W | Normal | |
| 752 | Wolf Lake fault and nearby faults | Ashton | <15 ka | <0.2 | 6.0 | N33°W | Normal | NE |
| 753 | Mallard Lake resurgent dome faults (Class B) | Ashton | <750 ka | <0.2 | 11.0 | N43°W | Normal | NE, SW |
| 754 | Elephant Back fault zone | Ashton | <130 ka | <0.2 | 28.1 | N47°E | Normal | NW, SE |
| 755 | Lake Hotel faults (graben) | Ashton | <15 ka | <0.2 | 2.0 | N2°W | Normal | E, W |
| 756 | East Gros Ventre fault (Class B) | Driggs | <15 ka | <0.2 | 19.5 | N47°E | Normal | SE, E |
| 757 | Eagle Bay fault | ----- | ----- | ----- | 30.9 | N3°E | ----- | ----- |
| 757a | Northern section | Ashton | <15 ka | <0.2 | 12.6 | N5°E | Normal | E |
| 757b | Middle section | Ashton | <15 ka | 0.2-1.0 | 5.9 | N3°E | Normal | E |
| 757c | Southern section | Ashton | <750 ka | <0.2 | 13.8 | 0° | Normal | E |
| 758 | Sour Creek Dome faults (Class B) | Ashton | <750 ka | <0.2 | 14.9 | N31°W | Normal | All |
| 759 | Faults near Clear Creek (Class B) | Ashton | <15 ka | <0.2 | 8.5 | N12°E | Normal | W |
| 760 | Faults of Brimstone Basin area | Ashton | <15 ka | <0.2 | 7.8 | N17°W | Normal | E, W |
| 761 | Upper Yellowstone Valley faults | Ashton | <15 ka | <0.2 | 24.9 | N9°W | Normal | E, W |
| 762 | Faults near Trishman and Douglas Knobs | Ashton | <130 ka | <0.2 | 4.3 | N29°W | Normal | NE, SW |
| 763 | Faults along the Lava Creek caldera margin (Class B) | Ashton | <750 ka | <0.2 | 64.6 | N49°W | Normal | all |
| 764 | Faults in boundary region of Yellowstone and Grand Teton National Parks | Ashton | <1.6 Ma | <0.2 | 50.8 | N8°W | Normal | E, W |
| 765 | Snake River caldera faults | Ashton | <750 ka | <0.2 | 13.5 | N4°E | Normal | E |
| 766 | East Mount Sheridan faults | Ashton | <15 ka | 1.0-5.0 | 21.4 | N3°W | Normal | E |
| 767 | Buffalo Fork fault | ----- | ----- | ----- | 30.0 | N1°E | ----- | ----- |
| 767a | Northern section | Ashton | <750 ka | <0.2 | 24.9 | N5°E | Normal | E |
| 767b | Middle section | Ashton | <15 ka | <0.2 | 3.2 | N22°W | Normal | E |
| 767c | Southern section (Class B) | Ashton | <1.6 Ma | <0.2 | 2.2 | N9°W | Normal | E |
| 768 | Teton fault | ----- | ----- | ----- | 58.6 | N19°E | ----- | ----- |
| 768a | Steamboat Mountain section | Driggs | <15 ka | <0.2 | 4.6 | N22°E | Normal | E |
| 768b | Northern section | Driggs | <15 ka | 0.2-1.0 | 12.2 | N18°E | Normal | E |
| 768c | Middle section | Driggs | <15 ka | 1.0-5.0 | 21.3 | N6°E | Sinistral | E |
| 768d | Southern section | Driggs | <15 ka | 0.2-1.0 | 17.8 | N28°E | Normal | E |
| 768e | Avalanche Canyon section | Driggs | <15 ka | <0.2 | 7.7 | N21°E | Normal | E |
| 768f | Granite Canyon section | Driggs | <15 ka | <0.2 | 6.0 | N30°E | Normal | E |
| 769 | Togwotee Lodge faults | Driggs | <15 ka | <0.2</ | | | | |

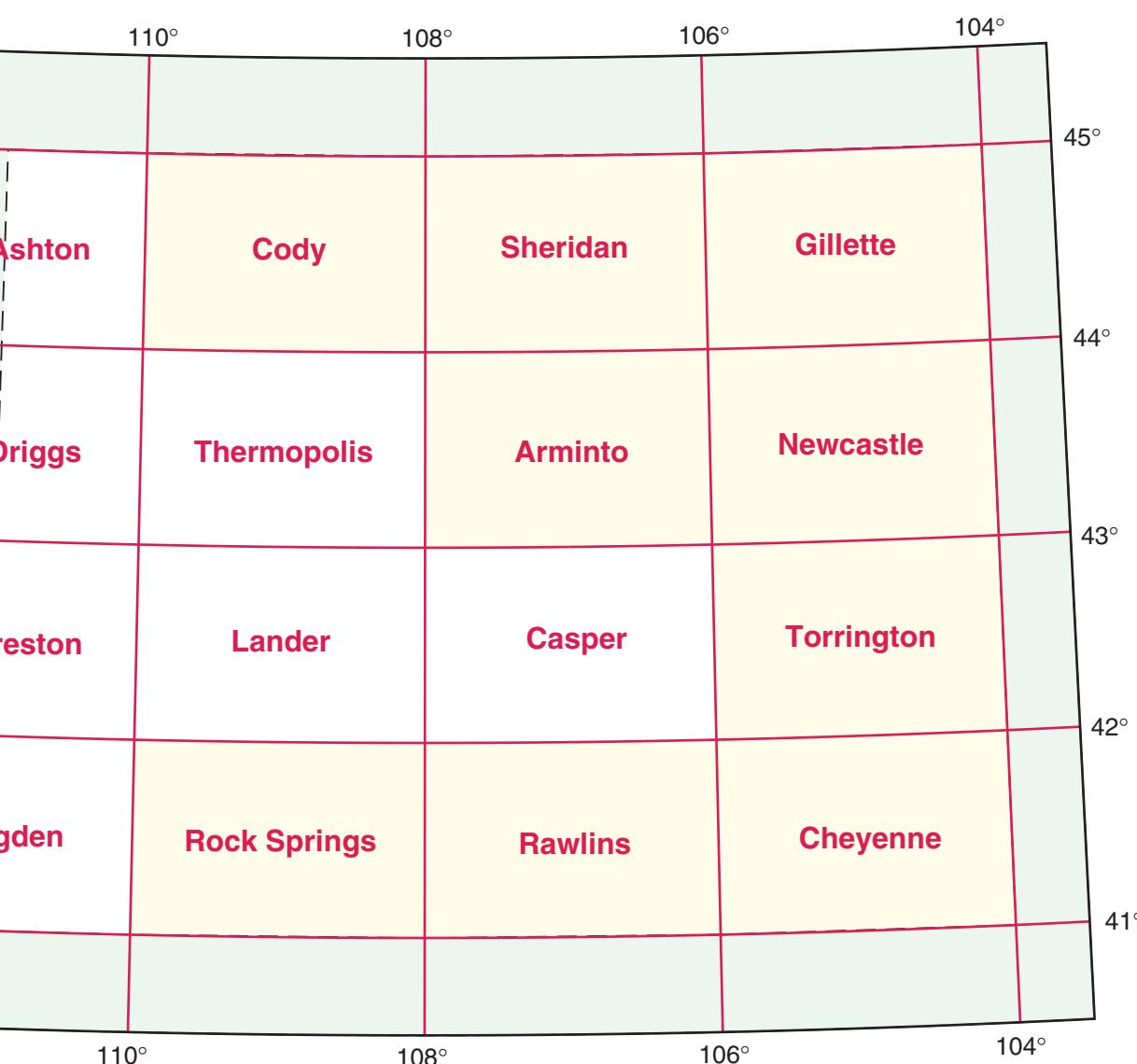


Diagram of topographic map sheets for Wyoming. Yellow-shaded area has no Quaternary faults or area is unmapped.