



EXPLANATION

Geological Units:

- Quaternary:** Surficial deposits, Quaternary deposits, Quaternary deposits, Quaternary deposits, Quaternary deposits.
- Central Plateau Area:** Gibbon River flow, Softwater Plateau flow, West Yellowstone flow, Neel Perry Creek flow, Hayden Valley flow, Elephant Back flow, West Thumb, Aster Creek flow, Summit Lake flow, Flatstone Plateau flow, Boulder River flow, Buffalo Lake flow, Spring Creek flow, Upper Basin Member, Mallard Lake Member.
- Madison Plateau Area:** (Detailed list of flows and members)
- Other Units:** Lava Creek Tuff of Yellowstone Group, Undine Falls Basalt, Mount Jackson, Sediments and basalt of The Narrows, Lower Canyon, Hackberry Ridge Tuff of Yellowstone Group, Junction Butte Basalt, Heart Lake Conglomerate, Wiggins Formation, Two Ocean Formation, Langford Formation, Trout Creek, Mount Wallace Formation, Crescent Hill Basalt, Wapiti Formation, Lamar River Formation, Cathedral Cliffs Formation, Riparian Formation, Upper and Lower Snake River, Morrison Formation, Three Forks Formation, and others.

EXPLANATION OF LINE SYMBOLS:

- Contact
- Dotted where concealed
- Normal fault
- Dotted where concealed. Dip and half on downthrown side
- Reverse fault along which later normal faulting took place
- Dotted where concealed. Block back on overriding block of reverse fault; bar and half on downthrown side of normal fault
- Reverse fault
- Dotted where concealed. Block back on overriding
- Low-angle fault
- Symmetric on upper side
- Anticline, showing direction of plunge
- Dotted where concealed
- Syncline
- Dotted where concealed
- Strike and dip of beds
- Strike and dip of overturned beds
- Horizontal beds
- Area of hydrothermal and alteration

Geological Time Scale:

- Quaternary:** Quaternary
- Tertiary:** Tertiary
- Cretaceous:** Cretaceous
- Jurassic:** Jurassic
- Triassic:** Triassic
- Permian:** Permian
- Carboniferous:** Carboniferous
- Devonian:** Devonian
- Silurian:** Silurian
- Ordovician:** Ordovician

Scale: 1:125,000

Contour Interval: 50 Feet

Map Location: (Inset map of Wyoming showing the location of Yellowstone National Park)

Base: From U.S. Geological Survey, 1:250,000 scale, 15-minute map, surveyed 1955-60. Partial cultural revision 1961 and 1970. Depth curves and soundings compiled from data supplied by the U.S. Fish and Wildlife Service, 1961. 50,000-foot grid based on Wyoming coordinate system, west one.

Geology based on detailed mapping of Quaternary volcanic rocks by R. L. Christians and H. R. Blake, Jr., 1965-70. Partial cultural revision 1961 and 1970. Pre-Quaternary volcanic rocks by H. W. Schminke and H. J. Prosser, 1965-70. Pre-Quaternary volcanic rocks in the northwestern part of Park by E. T. Ruppel, 1965-68. J. J. Wilshire, G. D. Fisher, H. R. Prosser, and H. J. Prosser, 1965-67 and W. G. Pearce, 1965-67. Pre-Quaternary volcanic rocks in the southern part of Park by J. D. Love, 1965-67. Pre-Quaternary volcanic rocks in the northern part of Park by K. L. Farver and H. A. Woodcock, U.S. Geological Survey, 1972. Surficial geologic map of Yellowstone National Park, U.S. Geol. Survey Misc. Inv. Map I-7111.

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GEOLOGIC MAP OF YELLOWSTONE NATIONAL PARK
By
The U.S. Geological Survey
1972

QUATERNARY
TERTIARY
CRETACEOUS
JURASSIC
TRIASSIC
PERMIAN
CARBONIFEROUS
DEVONIAN
SILURIAN
ORDOVICIAN