

ABBREVIATED EXPLANATION

Approximate stratigraphic relationships only; see Geologic Map Explanation for more accurate age designations and unit descriptions.

QUATERNARY	Qa Alluvium	Qd Dune and beach sand	Qm Marine terrace deposits	Qp Volcanic rocks of Shasta Valley (andesite; pyroclastic deposits)
PLIOCENE	Qp1 Fluvial deposits (Gravel, sand, and silt)	Qp2 Battery Formation (Marine and continental blue sandstone and clay)	Qp3 Undifferentiated Plio-Pleistocene marine and non-marine deposits	Qp4 St. George Formation (Marine; blue-gray siltstone and shale)
MIOCENE	Qp5 Marine mudstone undifferentiated (Offshore)	Qp6 Tertiary gravels ("Auriferous")	Qp7 Wimer Formation (Marine; friable yellow siltstone, sandstone, and conglomerate)	Qp8 Hornbrook Formation (Marine; massive arkosic sandstone, conglomerate, and shale)
OLIGOCENE	Qp9 Franciscan Complex* (sandstone, shale, conglomerate, chert, gneiss, and locally chert; mg-metagraywacke; silt-south fork mountain schist; r-chert of Redwood Creek; blue-chist blocks)	Qp10 Franciscan Complex* (sandstone, shale, conglomerate, chert, gneiss, and locally chert; mg-metagraywacke; silt-south fork mountain schist; r-chert of Redwood Creek; blue-chist blocks)	Qp11 Franciscan Complex* (sandstone, shale, conglomerate, chert, gneiss, and locally chert; mg-metagraywacke; silt-south fork mountain schist; r-chert of Redwood Creek; blue-chist blocks)	Qp12 Franciscan Complex* (sandstone, shale, conglomerate, chert, gneiss, and locally chert; mg-metagraywacke; silt-south fork mountain schist; r-chert of Redwood Creek; blue-chist blocks)
CRETACEOUS	Qp13 Ultramafic rocks—partly to completely serpenitized	Qp14 Galle Formation (Marine slate, metagraywacke, and gneiss)	Qp15 Volcanic rocks (Pillow lava and breccia)	Qp16 Gabbro, diorite, and related rocks
JURASSIC	Qp17 Ultramafic rocks—partly to completely serpenitized	Qp18 Ultramafic rocks—partly to completely serpenitized	Qp19 Ultramafic rocks—partly to completely serpenitized	Qp20 Ultramafic rocks—partly to completely serpenitized
TRIASIC	Qp21 Condry Mountain Schist	Qp22 Condry Mountain Schist	Qp23 Condry Mountain Schist	Qp24 Condry Mountain Schist
PERMIAN	Qp25 Stuart Fork Formation (Phyllic quartzite with some blueschist)	Qp26 Stuart Fork Formation (Phyllic quartzite with some blueschist)	Qp27 Stuart Fork Formation (Phyllic quartzite with some blueschist)	Qp28 Stuart Fork Formation (Phyllic quartzite with some blueschist)
DEVONIAN	Qp29 ms - metasedimentary rocks	Qp30 mvs - meta-igneous clastic sedimentary rocks	Qp31 mv - metavolcanic rocks	Qp32 cg - conglomerate and sedimentary breccia
SILURIAN	Qp33 ch - chert	Qp34 ls - limestone and marble	Qp35 gb - gabbro	Qp36 um - serpentinite and metaserpentine
ORDOVICIAN	Qp37 sch - amphibolite and greenschist	Qp38 bs - blueschist	Qp39 bs - blueschist	Qp40 bs - blueschist

MAP SYMBOLS

Contact
Observed or approximately located; queried where gradational or inferred.

Fault
Solid where well located, dashed where approximately located or inferred, dotted where located by younger rocks or water; queried where continuation or existence is uncertain. U, upthrown side; D, downthrown side (relative or apparent).

Antiformal fold
Synclinal fold
Strike and dip of beds
Strike and dip of foliation

Blueschist blocks
Joints
(Prominent joints in granitic rocks of Cattle Crag.)

EXPLANATION

method** mineral***
location no. age (m.y.) Sample location

*See accompanying tables in separate pamphlet.

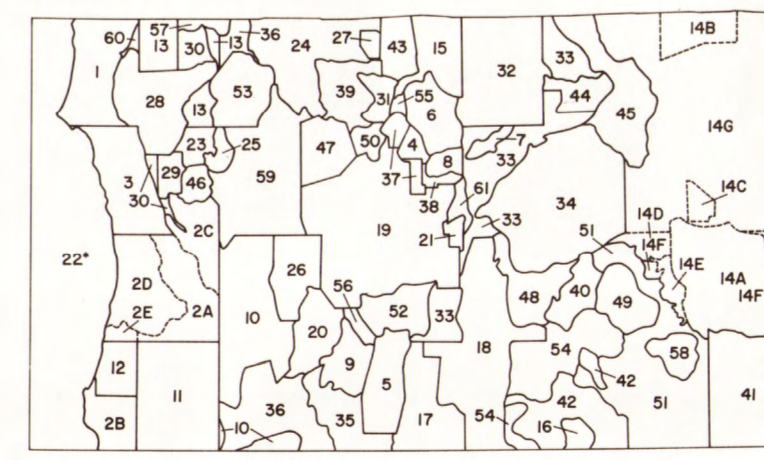
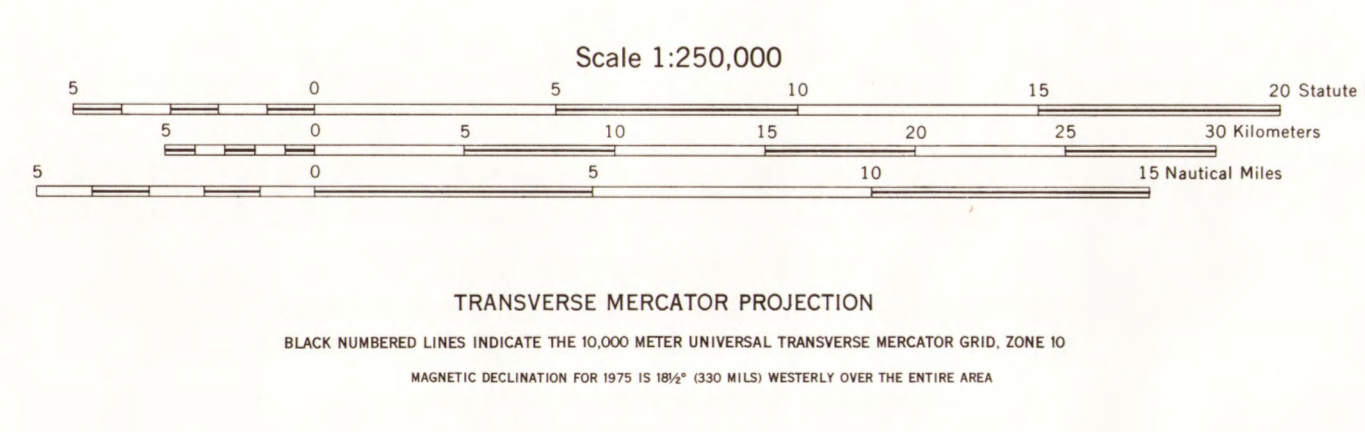
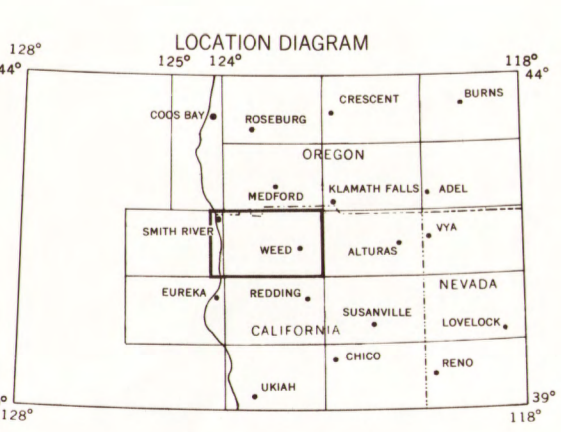
**method
KA = Potassium/Argon;
FT = Fission-track;
UPb = Uranium/Lead;
WR = Whole Rock; Z = Zircon;
AA = Argon/Argon

***mineral or material
A = Actinolite; B = Biotite;
H = Hornblende; M = Muscovite;
P = Plagioclase; S = Sulfide;

Geology compiled 1981-1983

BASE MAP
Prepared by the U.S. Army Topographic Command (KCSM), Washington, D.C. Compiled in 1957 from United States Quadrangles 148,000, 150,000, 152,000, 150,154. Map field checked 1958. Revised in 1979 by the U.S. Geological Survey from aerial photographs taken 1975.

Area west of 120° taken from Crockett City NK 157 Map (Revised 1977). Bathymetry and shoreline compiled by the National Ocean Survey (NOS). Minor corrections and additions to culture by California Division of Mines & Geology, 1983.



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LOCATION MAP OF ROCK SAMPLES DATED RADIOMETRICALLY, WEED QUADRANGLE, CALIFORNIA, 1:250,000

Compilation by
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