BIBLIOGRAPHY OF THE GEOLOGY AND MINERAL RESOURCES OF OREGON (FOURTH SUPPLEMENT)

January 1, 1956 to December 31, 1960

Compiled by
Miriam Roberts

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1970
Bibliography of the Geology and Mineral Resources of Oregon

(Fourth Supplement)
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Miriam Roberts

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BIBLIOGRAPHY of the GEOLOGY and MINERAL RESOURCES of OREGON

Fourth Supplement

1956 - 1960

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Introduction

Bulletin 67 is the fourth supplement to the original "Bibliography of the Geology and Mineral Resources of Oregon" by Ray C. Treasher and Edwin T. Hodge, which was published in 1936 and is now out of print. The first supplement, compiled by John E. Allen and published as Bulletin 33, carried the bibliography through the year 1945. The second supplement, compiled by M. L. Steere and published as Bulletin 44, extended the bibliography through 1950. The third supplement, compiled by Margaret L. Steere and Lillian F. Owen, covered the material that was published during the five-year period from January 1951 through December 1955, and was issued as Bulletin 53. This, the fourth supplement, is a survey of publications which appeared from January 1956 through December 1960. A fifth supplement, covering the subsequent 10-year period, is planned.

Publications which were consulted in the compilation of the fourth supplement are listed on pages 1 and 2. This bibliography, as well as those published previously, includes theses, open-file reports, and other material which was not published but is available for inspection in libraries.

Gratitude is extended to everyone who assisted with the preparation of this bulletin, especially to librarians at the Oregon State Library, the University of Oregon, Oregon State University, Portland State University, and the Multnomah County Library, for their assistance in locating source material.

The first section of Bulletin 67 consists of an alphabetical listing of authors and the titles of their articles. The subject index which follows lists the names of the authors and refers by number to the particular articles involved.
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- Standard mine: Wagner 1

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- Baker County, 1861-1959: Wagner 6
- Bohemia district: Nelson
- Buffalo mine: Pilcher
- Standard mine: Wagner 1

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Geology: Baldwin 1
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Granite plant burns: Baker Record-Courier
Petrographic studies:
- Granite: Whitney
- Zircons: Larsen; Poldervoort 1
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- Western Cascades: Burchardt

GRANT COUNTY

Geology:
- Aldrich Mountain quadrangle: Thayer 1
- Botes quadrangle: Mabey; Nelson, A. M.
- Buffalo mine: Pilcher
- Courtrock quadrangle: Cummings; Napper
- Dale quadrangle: Dale
- Eldhorn Mountains, Bold Mountain batholith:
  - Twibeneck 1
- Lava area: Dickinson 1, 3
- Lava quadrangle: Wallace
- John Day Formation: Fisher 1
- John Day quadrangle: Thayer 3
- Logdell quadrangle: Wallace
- Monument quadrangle: Jolly, J. H.; Jolly, J. L.
- Mount Vernon quadrangle: Thayer 2
- Quartzburg district: Vhay
- Ritter quadrangle: Thomas, G. M.
- Seneca-Silvies area: Crowley
- Suplee quadrangle: Vigliss
- Susanville quadrangle: Humphrey; Thompson
- Tertiary volcanology and structure:
  - Thayer 5, 6

Ground water:
- Phreatic phreones: Robinson

Mineral resources:
- Chromites, John Day: Hunsheaden 2
- Chromites, flotation of: Sullivan
- Copper-cobalt deposits, Quartzburg district:
  - Vhay
- Gold and silver:
  - Buffalo mine: Pilcher
  - Granite mining district: Kach, G. S.
- Limestone occurrences: Libbey 1; Wagner 4
- Manganese deposits: Appling 2
- Oil and gas exploration:
  - Sedimentary basins: Corcoran 1
- Uranium: Jarrard

Mining history:
- British investment and Oregon mining: Spence
GRANT COUNTY; Mining history, continued:
- Gold and Oregon's settlement: Rand
- Standard mine: Wagner 1

Paleontology:
- Plant microfossils, Columbia plateau: Gray, J. 3
- Species of Nimrovus: Taohey

Petrographic studies:
- Jurassic marine tufts: Dickinson 3
- Marine clastic rocks: Dickinson 2
- Triassic greywackes, Aldrich Mountains: Thayer 8
- Volcanic clastic rocks: Fisher 2

Stratigraphy:
- Triassic formations, correlation of: Reeside

GRANTS PASS QUADRANGLE
- Maps, aeromagnetic: Balsley

GRAVELS
- Lacomb gravels: Smith, R. 1.; Wilkinson 2
- Leffler gravels: Smith, R. 1.; Wilkinson 2
- Linn gravels: Smith, R. 1.; Wilkinson 2
- Localities:
  - Bear River Ridge, Wash.: Howell, P.W. 2
  - Terrace gravels in highway construction: Pacific Builder and Engineer

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- Airport network: Woollard
- Bouguer anomalies: Harrison

GRAYWACKES
- Aldrich Mountains: Thayer 8
- Izee-Suplee quadrangles: Wallace; Dickinson 1

GRAYLOCK FORMATION
- Geology: Dickinson 1

GREAT BASIN
- (see BASIN AND RANGE PROVINCE)

GROUND WATER
- General:
  - Bibliography, Oregon: Newcomb 2
  - Carbon dioxide, natural sources of: Wagner 7

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- Legislation: Scevo
- Observation wells: Brown, S. G. 3, 4
- Artesian pressure: Brown, S. G. 3, 4
- Artificial recharge: Hart 3
- Floods of January 1953: Rantz

Localities:
- Clark County, Wash.: Mundarff
- Cow Valley, Malheur County: Brown, S. G. 2; Oreg. State Engineer 2
- Florence dune-sand area: Hampton 2
- Klamath Falls: Hart 1
- Klamath River basin: Newcomb 5
- Snake River basin: Newcomb 7
- The Dalles area: Oreg. State Engineer 1
- Tualatin Valley: Hart 2
- Umatilla River basin: Hogenson 2
- Vancouver, Wash.: Griffin, W. C.
- Willamette Valley: Highsmith

Phreatophytes: Robinson
- Resources:
  - Clark County, Wash.: Griffin, W. C.; Mundarff
  - Columbia River Basin: Newcomb 6
  - Coos Bay sand dunes: Brown, S. G. 2
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  - Florence dune-sand area: Hampton 2
  - Klamath River basin: Newcomb 5
  - Schoolie Flat area, Wasco County: Newcomb 1
  - Snake River basin: Newcomb 7
  - Tualatin Valley: Hart 2
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- Observation wells: Brown, S. G. 3, 4
- Schoolie Flat area: Newcomb 1

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- Lagdell to Pine Creek: Imray 3
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- Prineville to John Day: Wilkinson 3

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- Annual production: Bador 1
- Localities:
  - Northeastern Oregon: Wagner 5, 6
- Mining history:
  - Baker County, 1861-1959: Wagner 6
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Formations: Campbell, 1.
Sedimentary basins: Corcoran

HARNEY COUNTY

Dating:
Absolute dating, Lake Lahonton: Broecker
Relative dating: volcanic rocks, age and correlation: Walker

Geology:
Alvord Lake Three quadrangle: Johnson
Beatty Butte Four quadrangle: Moloney
Drinking Water Pass: Gray, W. L.
Steens Mountain: Fryberger; Wilkerson
Suplee area: Vigroux

Mineral resources:
Boron, Alvord Valley: Libbey 4; Mason 7
Gem stones: Schlegel
Limestone: Wagner 4
Oil and gas: Buddenhagen; Corcoran 1
Perlite: Jaster
Uranium: Peterson 3; Schaefer

Paleontology:
Miocene chlorophycean algae: Gray, J. 4
Plant microfossils, Columbia Plateau: Gray, J. 3

Stratigraphy:
Paleozoic rocks: Ogren

HARNEY FORMATION

Central Oregon: Ogren

HEAVY MINERALS (see BLACK SANDS)

HECETA HEAD QUADRANGLE

Geology: Baldwin 1
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HEINRICHITE

White King mine: Gross

HELLS CANYON

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Medford quadrangle: Wells

HIGH CASCADES

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Pacific Coast Trail: Heald 1

Geology:
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Cenozoic volcanism: Peck 3
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Glaciers:
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Hot Springs (see Thermal Springs)

Humbbug Mountain
Geology: Koch, J. G.

Huntington Quadrangle
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Northeast quarter: Berry
Northwest quarter: Kennedy

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Correlations: Reeside
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Hyde Formation
Geology: Dickinson 1
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Idaho Group
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Snake River canyon: Savage
Petrographic studies: Ladwig

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Geochmical investigations: Nockolds
Intrusives: Willow Lake type: Poldervoort 2
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Cape Kiwanda: Laurence 2
Cornucopia: Goodspeed 1; Raddick
Cougar Peak volcanic area: Haddock
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Elkhorn Mountains: Poldervoort 2
Emplacement of granitic plutons: Toubeneck 9
Glide quadrangle: Patterson
Granite problems: Walton
Izee quadrangle: Wallace
Lone County: Bray
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Monument dike swarm: Thayer 6
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Paleozoic rock, central Oregon: Ogren
Quartzburg district, Grant County: Vhay
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Rock units, diorite: Wagner 5
Wallowa batholith: Toubeneck 4
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Wallowa Lake type plutons: Poldervoort 2

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Annual reviews: Mason 9
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Ironside Formation
Volcanology and structure: Thayer 5, 6, 7

Ironside Mountain Quadrangle
Volcanology and structure: Thayer 5, 6, 7

Izee Quadrangle
Geology: Dickinson 1; Thayer 5, 6, 7; Wallace
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JACKSON COUNTY

Meteorites:
Sam's Valley: Lange 4

Minerals and mineral resources:
Gemstones: Dysart
Gold placer mining: Ramp 4
Limestone: Libbey 1; Peterson 2
Manganese: Appling 1; Hewett
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Rhodonite: Minerologist 2
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Stratigraphy:
Chico Formation, new name: Steere 3
Upper Cretaceous rocks: Peck 1

Surface water:
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JEFFERSON COUNTY

Geology:
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High Cascade Mountains: Williams
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Mineral resources:
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Gilchrist, H.
Oil and gas exploration: Corcoran 1
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JOHN DAY AREA (see also JOHN DAY FORMATION)

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Fossil vertebrates: Dawson; Downs; Tookey
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Jolly, J. H.; Jolly, J. L.
Guide book: Wilkinson 1, 4, 5

Localities:
Aldrich Mountain quadrangle: Thayer 1
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JOHN DAY AREA, Localities, continued:

Mitchell quadrangle: Taylor, E. M.
Monument quadrangle: Fisher 1
Mount Vernon quadrangle: Thayer 2

Petrographic studies:
John Day Formation: Fisher 2
Jurassic marine tufts: Dickinson 3
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Volcanic rocks: Dickinson 2; Thayer 5, 6, 7

JOHN DAY FORMATION

Fossil plants: Brown, R. W. 3
Fossil vertebrates: Dawson; Brown, R. W. 3

Gemstones: Brown, M. D.

Localities:
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Schoolie Flat area: Newcomb 1
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Mineral resources:
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Petrographic studies: Fisher 2; Hay 2;
Smith 2

Volcanology and structure: Thayer 5, 6, 7

JOHN DAY QUADRANGLE

Geology: Thayer 3, 6

JORDAN CRATERS

Malheur County: Kindschy

JOSEPHINE COUNTY

Geology:
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Illinois River: chromite district; Ramp 2
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Toklma-Wolda copper district; Hundhausen 1

Minerals and mineral resources:
Chromite: Oregon chrome mine closes;
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Copper: Toklma-Wolda district; Hundhausen 1

Gemstones: Schlegel
Gold placer mining: Ramp 4

History, British investment: Spence
Josephinite: see arogenite
JOSEPHINE COUNTY

Minerals and mineral resources, continued:
Limestone: Libbey 1; Peterson 2
Manganese: Appling 1
Oregonite (josephinite): Romdahl;
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Rhodonite: Mineralogist 2
Silica: Mueller, E. E.
Paleontology:
Early Cretaceous ammonites: Imloy 5
Stratigraphy:
Jurassic, Cretaceous formations, relations of: Imloy, 4
Surface water:

JOSEPH UPLAND

Geomorphology: Oreg. Dept. Geol. 17

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Fossil fauna, Clarendonian: Russell

JUNTURA FORMATION

Beulah area: Bowen
Drinking Water Pass: Groy, W. L.

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Correlation chart: Imloy 4
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Grant County: Dickinson 1, 2
Izee-Logdell quadrangles: Wallace
Jim Robertson ranch: Woisgerber
Northern Wallowa Mountains: Smedes 1
Petrographic studies: Dickinson 3
Stratigraphy:
Central Oregon: Ogren
Granitic plutons: Toubeneck 6
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KEASEY FORMATION

Fossil invertebrates (foraminifera): Stewart
Fossil vertebrates (fish): David
Localities:
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Sunset Highway area: Steere 2
Oil and gas exploration: Newell

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Aeromagnetic maps: Bolsey

KLAMATH COUNTY

Archaeology:
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Geology:
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Yonona Formation: Newcomb 4
Ground water:
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Klamath River basin: Newcomb 5
Paleontology:
Fresh-water clam distribution: Taylor
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KLAMATH MOUNTAINS

Geology: Baldwin 4
Geomorphology: Oreg. Dept. Geol. 17
Surface water:
Umpqua River basin: Oreg. State Water Res. Bd. 1

KLAMATH MOUNTAIN BATHOLITH

Quartz diorite boundary line: Moore, J. G.

KLAMATH RIVER BASIN

Archaeology: Newman
Dams: Newman
Geology: Newcomb 4, 5
Ground-water resources: Newcomb 5

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LAKE COUNTY

Archaeology:
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Fort Rock Cave: Briggs
Lake Lahontan: Braecker

Relative dating:
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Geology:
Ana River: Conrad
Basin-Range structure: Donath 1
Cougar Mountain Cave: Cowles
Cougar Peak volcanic area: Haddock
Faulting: Donath 2; Trauger
Fort Rock - caldera: Howell, P.W. 8
Lakeview uranium area: Peterson 4
Pleistocene lakes: Brogan 1

Ground water:
Ana Springs: Brown, S. G. 5
Crump geyser: Oreg. Dept. Geol. 22, 23; Peterson 5

Minerals and mineral resources:
Gold: Last Blue Bucket mine: Shaw
Manganese: Hewett
Obsidian: Dake 5, 6
Opal, Hart Mountain: Dake 9
Perlite: Jaster
Uranium: Jarard: Lake County Examiner; Oreg. Dept. Geol. 14; Peterson 3
Uranium minerals: Gross

Paleontology:
Fresh-water clam distribution: Taylor

LAKE COUNTY, LAKES (see also PLEISTOCENE)

Fossil invertebrates: Taylor, D. W.

Localities:
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Tule Lake: Cleghorn
Opalite mining district: Brooks 2

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Tualatin Mountains: Howell, P. W. 3, 5; Lawrence 1

LANE COUNTY

Geology:
Florence dune-sand area: Hampton 2
High Cascades: Howell 4; Williams
Igneous intrusives: Bray
Leaburg quadrangle: Schlicker 2
Lookout Point Dam, landslide at: Staples 1
Lowell quadrangle: Schlicker 2
Lower Siuslaw River area: Baldwin 1
Marcola quadrangle: Bristow; Schlicker 2
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Zeolite deposits: Kieck

Ground water:
Florence dune-sand area: Hampton 2
Williamsley, Irrigation: Highsmith

Mineral deposits:
Block Butte: mine: Waters 1

LEAD

Annual production: Baber 1-5
Annual reviews: Mason 1

LIGHTWEIGHT AGGREGATE (see AGGREGATE)

LIMESTONE

Annual production: Baber 1-5; Mason 5
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Cement industry:
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Chemical Lime Co. operation: Vervoeko
Market: Libbey 1
Quarry: Lenhart 2

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In lentils: Imlay 4
Old Ferry quadrangle: Spiller
Paleozoic inlier: Mamay; Ogren
Western Oregon: Peterson 2
White Butte area: Howard

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- Undeveloped deposits: Libbey 1

LIMONITE (see also IRON)

Annual production: Bober 3
Annual reviews: Mason 1

LINCOLN COUNTY

Geology:
- Granite erratics: Howell, P. W. 6
- Guide book: Corvallis to Depoe Bay; Bastwick
- Valleymt quadrangle: Schnitbyte
- Mineral resources: Gem stones: Schlegel
- Paleontology:
  - Anacanthin fishes: David
  - Tertiary foraminfera, Waldport: Jones, R. W.

LINK RIVER

Archaeology: Rack dams: King

LINN COUNTY

Geology:
- Lebanon quadrangle: Allison
- High Cascades: Williams
- Snow Peak quadrangle: Smith, R. 1.
- Western Cascades: Peck 2

Ground water:
- Willamette Valley, irrigation: Highsmith

Mineral resources:
- Electron-beam melting at Wah Chang: Matthews 3
- Gold: Quartzville: Maxwell

Mining history:
- British investment: Spence
- Quartzville: Maxwell

Paleontology:
- Fossil woods: Eubanks

LITTLE BUTTE VOLCANIC SERIES

Western Cascades: Peck 2; Wolfe 3

LOESS (see also SOILS)

Distribution: Theisen 1, 2
Localities: Northeastern Oregon: Lewis

LOGAN VALLEY QUADRANGLE

Volcanology and structure: Thoyer 5, 6, 7

LOGDELL QUADRANGLE

Geology: Thoyer 5, 6, 7; Wallace

LONE MOUNTAIN FORMATION

Localities:
- Beatty Butte Four quadrangle: Maloney
- Petrographic studies: Maloney

LONESOME FORMATION

Geology: Dickinson 1; Imlay 3
Localities: Imlay 3

LONG CREEK QUADRANGLE

Volcanology and structure: Thoyer 5, 6, 7

LOOKOUT POINT DAM

Landslide: Staples 1

LOST MINES AND TREASURES: Hult

LOWELL QUADRANGLE

Geology: Kleck; Schlicker 2

LOWER SEDIMENTARY SERIES

Corelation: Reeside
Geology: Loudon; Smedes 1

McINTOSH FORMATION

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Foraminifera: Stewart
Localities: Baldwin 5
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MCKENZIE RIVER
Geology: Bristow

MADRAS FORMATION
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MAGNESIAN HORNFELS
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MALHEUR COUNTY
Geology:
Beulah area: Bowen
Drinking Water Pass: Gray, W. L.
Huntington quadrangle: Kennedy
Jordan Craters: Kindschy
Mitchell Butte quadrangle: Ludwig
Upper Willow Creek-Cow Creek valley area: Wolff

Ground water:
Cow Valley: Brown, S. G.

Mineral resources:
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Mercury: (schuetteite) Bailey; Benson; Brooks 2
Mercury flotation: Kunze; Town
Oil and gas exploration: Corcoran 1
Perlite: Jaster
Uranium: Jarrod

Mining history:
British investment: Spence
El Dorado Ditch: Linn

Paleontology:
Fresh-water clam distribution: Taylor
Pliocene Clarendonian fauna: Russell

MAMMALS (See FOSSIL VERTEBRATES)

MANGANESE
Annual production: Baber 2, 3, 4
Localities:
Borax hot spring, Lake County: Hewett
Northeastern Oregon: Appling 2
Southwestern Oregon: Appling 1
Tyrrell mine, Jackson County: Hewett

Mining history:
Baker County, 1861-1959: Wagner 6

MAPLETON QUADRANGLE
Geology: Baldwin 1
Petrography and petrology: Bray

MAPS (see GEOLOGIC MAPS, PUBLISHED; GEOLOGIC MAPS, UNPUBLISHED)

MARBLE
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MARCOLA QUADRANGLE
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Geology:
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Scotts Mills: Gilchrist, F. G. 2
Western Cascades: Peck 2

Ground water:
Williamette Valley irrigation: Highsmith

Mineral resources:
Salem Hills ferruginous bauxite deposits:
Corcoran 2
Titanium mineralogy of bauxites: Hartman 2

Uranium: Schrader

Paleontology:
Salem-Dallas fossil locality: Steere 5

MARKS RIDGE
Geology: Howell, P. W. 4

MARTIN BRIDGE FORMATION
Correlation: Reeside
Geology: Loudon; Smedes 1

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Guide book: Bostwick
MASCALL FORMATION
Fossil flora: Gray, J. 2, 3, 4
Fossil vertebrates: Downs
Geology: Dickinson 1; Thayer 1, 2, 5, 6, 7

MEDFORD QUADRANGLE
Geology: Wells

MEHAMA VOLCANICS
Locality:
Leaburg quadrangle: Schlicker 2
Lebanon quadrangle: Allison
Lewell quadrangle: Schlicker 2
Marcola quadrangle: Schlicker 2
Snow Peak quadrangle: Smith, R. I.

MERCURY
Annual production: Bober 1-5
Annual reviews: Mason 1, 4, 6, 9, 11
Exploration: Pennington
Flotation methods: Kunze; Town
Locality:
Black Butte mine: Waters 1
Bretz mine: Benson; Brooks 2; Kunze; Town
Horse Heaven mine: Gilbert
Nonparel mine: Patterson
Opalite mining district: Brooks 2
Southern Steens Mountain: Wilkerson
Mining history: Brooks 1
Reserves: Pennington; U.S. Bur. Mines 1, 3

MESA BASALT
Beaty Butte Four quadrangle: Maloney

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METAMORPHIC ROCKS
Locality:
Izee, Logdell quadrangles: Wallace
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Classification: Lange 3
Port Orford meteorite: Hult; Lange 4, 6
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Annual production: Bober 1-5; Mason 5, 8, 10, 12; American Bur. Metal Statistics
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Methods:
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Chromite concentrates, electric smelting:
Walsbad
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U.S. Bur. Mines 2
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General: U.S. Bur. Mines 1, 3
Atlas of Pacific Northwest: Hintze 3
Continental shelf: Trumbull, J.
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Northeastern Oregon: Wagner 5

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Baker County, 1861-1959: Wagner 6
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Cornucopia gold mines: Goodspeed 1
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Randolph: Bright
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