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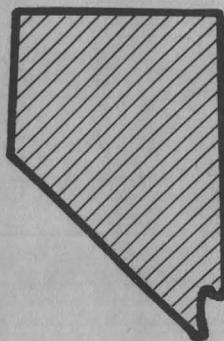
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NEVADA BUREAU OF MINES AND GEOLOGY

MAP 44

MODIFIED GEOLOGIC MAP
OF
NEVADA

By N. L. Archbold



Prepared in cooperation with the Nevada Division of Water Resources
as part of the State Water Plan

MACKAY SCHOOL OF MINES
UNIVERSITY OF NEVADA, RENO

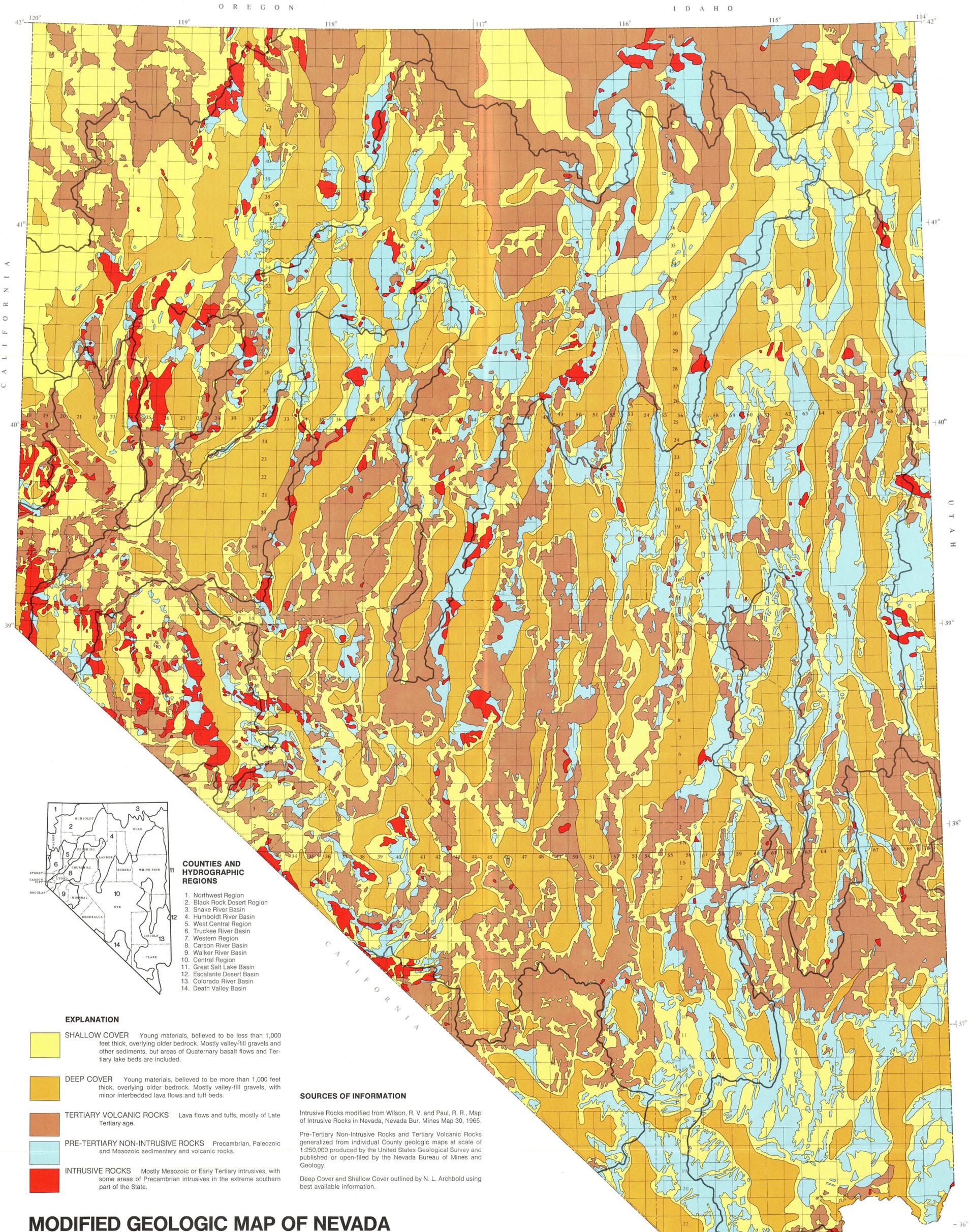
1972

Price Two Dollars

The Mackay School of Mines is the educational, research, and public service center for the mineral resources, geology, and mineral industry of Nevada. It is one of the several colleges of the University of Nevada, Reno. The School consists of three divisions: the academic division, composed of the departments of instruction; the Nevada Bureau of Mines and Geology; and the Nevada Mining Analytical Laboratory.

The Nevada Bureau of Mines and Geology and the Nevada Mining Analytical Laboratory, as public service agencies, make available information, maps, and reports on the mineral resources and geology of Nevada. Both organizations work on mineral economic and environmental problems, and assist in the development and utilization of the State's mineral resources. The Bureau conducts field studies and other research on geology and mineral deposits. The Laboratory identifies, analyzes, and evaluates minerals, rocks, and ores found in Nevada, and performs research in mineral beneficiation and extractive metallurgy.

For information concerning the mineral resources, geology, or mineral industry of Nevada, write to: Director, Nevada Bureau of Mines and Geology, University of Nevada, Reno, Nevada 89507.



COUNTIES AND HYDROGRAPHIC REGIONS

1. Northwest Region
2. Black Rock Desert Region
3. Snake River Basin
4. Humboldt River Basin
5. West Central Region
6. Truckee River Basin
7. Western Region
8. Carson River Basin
9. Walker River Basin
10. Central Region
11. Great Salt Lake Basin
12. Escalante Desert Basin
13. Colorado River Basin
14. Death Valley Basin

EXPLANATION

- SHALLOW COVER** Young materials, believed to be less than 1,000 feet thick, overlying older bedrock. Mostly valley-fill gravels and other sediments, but areas of Quaternary basalt flows and Tertiary lake beds are included.
- DEEP COVER** Young materials, believed to be more than 1,000 feet thick, overlying older bedrock. Mostly valley-fill gravels, with minor interbedded lava flows and tuff beds.
- TERTIARY VOLCANIC ROCKS** Lava flows and tuffs, mostly of Late Tertiary age.
- PRE-TERTIARY NON-INTRUSIVE ROCKS** Precambrian, Paleozoic and Mesozoic sedimentary and volcanic rocks.
- INTRUSIVE ROCKS** Mostly Mesozoic or Early Tertiary intrusives, with some areas of Precambrian intrusives in the extreme southern part of the State.

SOURCES OF INFORMATION

Intrusive Rocks modified from Wilson, R. V. and Paul, R. R., Map of Intrusive Rocks in Nevada, Nevada Bur. Mines Map 30, 1965.

Pre-Tertiary Non-Intrusive Rocks and Tertiary Volcanic Rocks generalized from individual County geologic maps at scale of 1:250,000 produced by the United States Geological Survey and published or open-filed by the Nevada Bureau of Mines and Geology.

Deep Cover and Shallow Cover outlined by N. L. Archbold using best available information.

MODIFIED GEOLOGIC MAP OF NEVADA

MAP 5-1, WATER FOR NEVADA - MINERAL PROJECTIONS

Compiled by N. L. Archbold

PERCENTAGE OF EXPOSED ROCK UNITS BY COUNTIES					
COUNTY	SHALLOW COVER % of area	DEEP COVER % of area	TERTIARY VOLCANIC ROCKS % of area	PRE-TERTIARY NON-INTRUSIVE ROCKS % of area	INTRUSIVE ROCKS % of area
Churchill	17.5	42.3	36.4	2.9	0.9
Clark	36.8	25.3	5.8	31.8	0.5
Douglas	34.9	16.8	9.1	14.4	24.9
Elko	36.8	19.7	20.1	21.1	2.3
Esmeralda	34.4	26.4	20.2	12.0	7.0
Eureka	18.8	46.7	10.3	22.1	2.0
Humboldt	27.0	36.8	22.3	9.8	4.0
Lander	24.1	29.4	27.6	17.4	1.4
Lincoln	24.8	27.8	29.7	17.5	0.2
Lyon	54.0	9.2	25.1	2.8	9.0
Mineral	37.2	16.2	23.3	12.8	10.5
Nye	23.0	34.6	32.6	8.9	0.8
Ormsby	23.8	7.7	19.2	22.7	26.6
Pershing	26.8	32.5	9.7	22.9	8.1
Storey	28.3	-	69.8	1.2	0.7
Washoe	53.7	15.2	24.6	1.4	5.2
White Pine	24.8	31.0	9.1	34.3	0.8
STATE	30.1	26.5	22.1	16.5	2.8

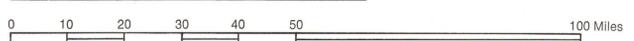
PERCENTAGE OF EXPOSED ROCK UNITS BY HYDROGRAPHIC REGIONS AND BASINS					
HYDROGRAPHIC REGION OR BASIN	SHALLOW COVER % of area	DEEP COVER % of area	TERTIARY VOLCANIC ROCKS % of area	PRE-TERTIARY NON-INTRUSIVE ROCKS % of area	INTRUSIVE ROCKS % of area
1	45.8	21.7	30.4	0.2	1.9
2	34.2	33.8	19.1	7.4	5.6
3	45.3	3.2	33.6	15.5	2.4
4	27.2	28.8	21.9	19.7	2.3
5	32.4	24.7	25.2	6.5	11.2
6	39.7	15.2	33.4	1.6	10.1
7	47.4	12.8	18.5	2.9	18.5
8	25.7	42.9	21.8	5.4	4.1
9	40.8	15.6	18.6	8.3	16.7
10	26.4	32.8	21.3	17.9	1.6
11	33.5	21.4	7.7	36.2	1.2
12	23.8	25.9	50.2	-	-
13	29.5	26.8	19.9	23.6	0.3
14	28.4	23.8	35.1	9.7	3.0
STATE	30.1	28.5	22.1	16.5	2.8

DIVISION OF WATER RESOURCES
STATE ENGINEER'S OFFICE
Prepared as a part of the Nevada State Water Plan

Nevada Bureau of Mines and Geology Edition
This map was originally prepared for inclusion in *Forecasts for the Future—Minerals*, one of a series of comprehensive State water planning reports issued by the Division of Water Resources. Because it was believed to be of particular interest to persons and organizations concerned with exploration and development of Nevada's mineral resources, the State Engineer's Office kindly granted the Nevada Bureau of Mines and Geology permission to reprint it for issue as a Bureau Map.

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Scale 1:1,000,000



Cartography by Susan L. Nichols.