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UTAH GEOLOGICAL AND MINERALOGICAL SURVEY

*List of
Publications
1972*

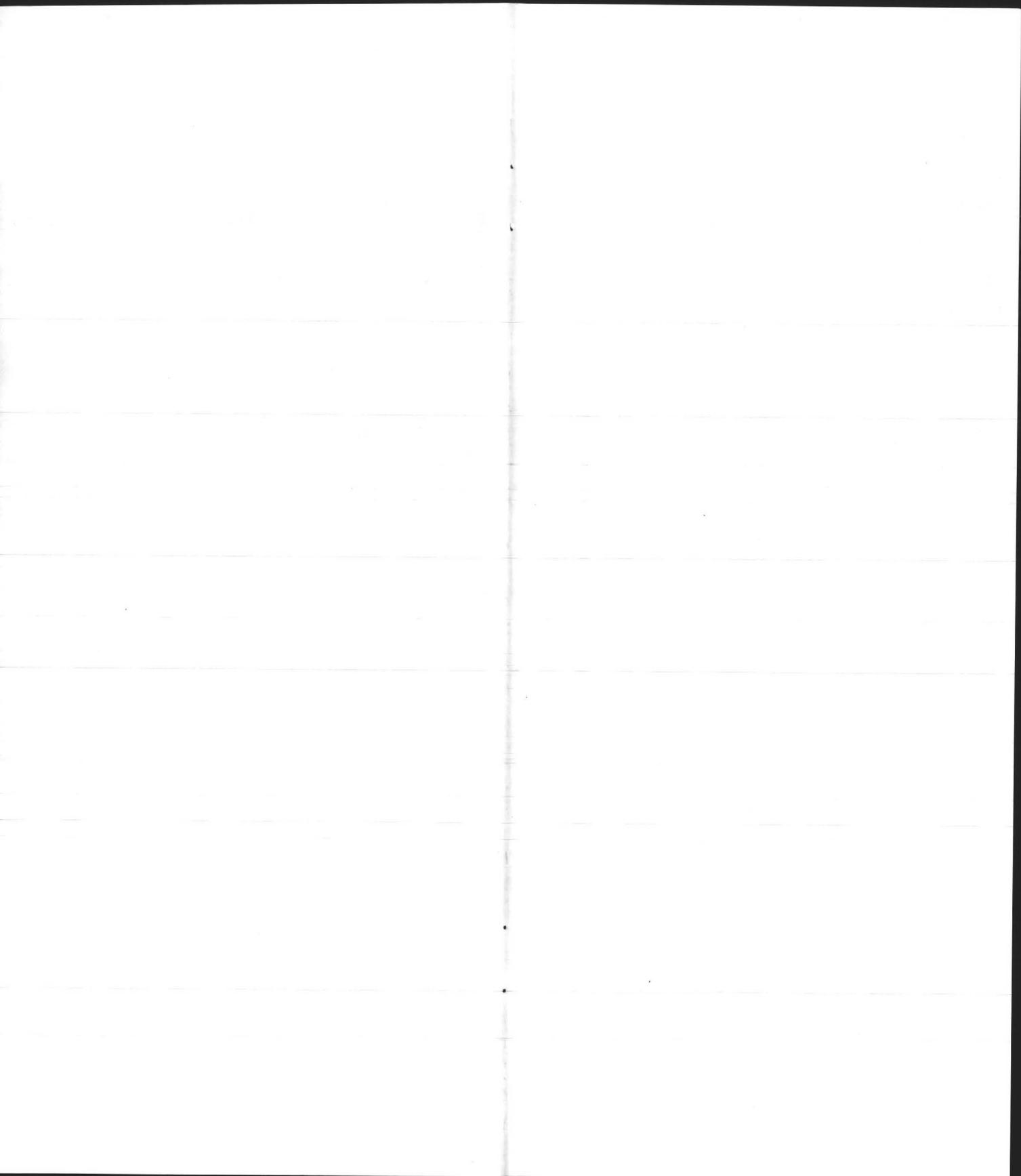


UTAH GEOLOGICAL AND MINERALOGICAL SURVEY
W.P. HEWITT, DIRECTOR
103 UTAH GEOLOGICAL SURVEY BUILDING
UNIVERSITY OF UTAH
SALT LAKE CITY, UTAH 84112

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MAIL ORDER INSTRUCTIONS

Order from the following address:

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY
103 Utah Geological Survey Building
University of Utah
Salt Lake City, Utah 84112

Make all checks and money orders payable to the Utah Geological and Mineralogical Survey. Foreign sales payable in *U. S. currency only*.

Payment by check, cash or money order should accompany all publication orders (stamps are not accepted).

All orders are sent by fourth class mail unless otherwise requested. *10 percent* is charged for packaging and postage for each order sent fourth class; *\$.10* is the *minimum fee* unless otherwise specified.

The Utah Geological and Mineralogical Survey will assume that mail orders have been filled unless notification of non-receipt is given within one month.

Out-of-print material may be consulted in public or college libraries.

DISCOUNTS

Quantity discounts are available on Utah Geological and Mineralogical Survey bulletins, special studies and water-resources bulletins *only*, as follows:

\$10.00-\$19.99 10 percent discount
\$20.00 and over 20 percent discount

No discounts apply to other Utah Geological and Mineralogical Survey publications—maps, circulars, reprints or miscellaneous.

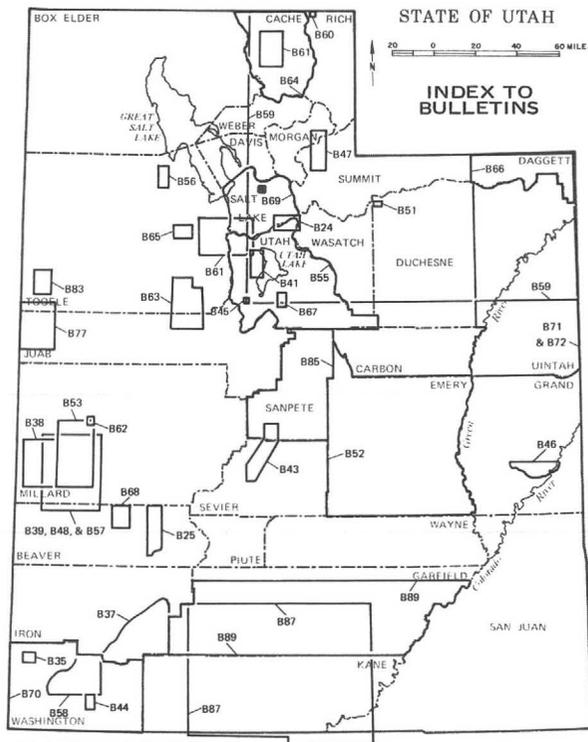
Quantity discounts are available on Utah Geological Society, Intermountain Association of Geologists and Utah Geological Association items *only*, as follows:

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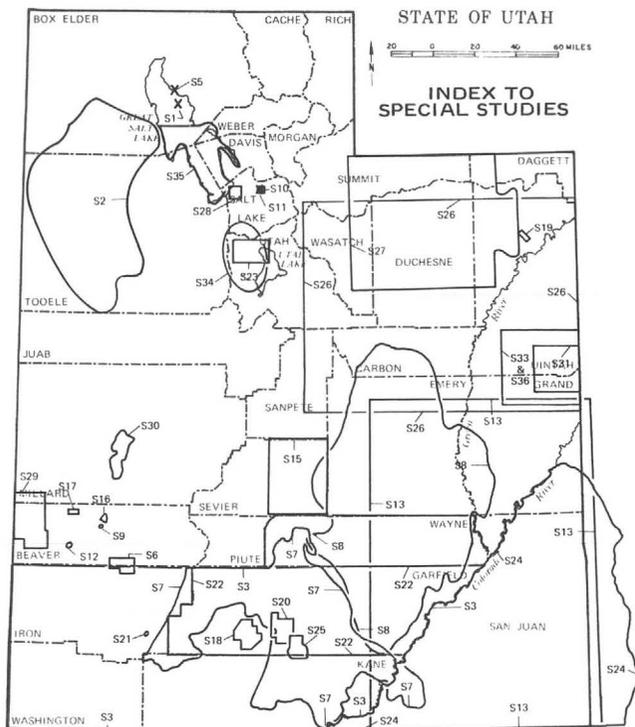
Prepayment or purchase order is required on all Utah Geological Society, Intermountain Association of Geologists and Utah Geological Association publications.

No discounts apply to miscellaneous publications available through UGMS or quarter geologic maps of Utah.



B75 COVERS WESTERN UTAH
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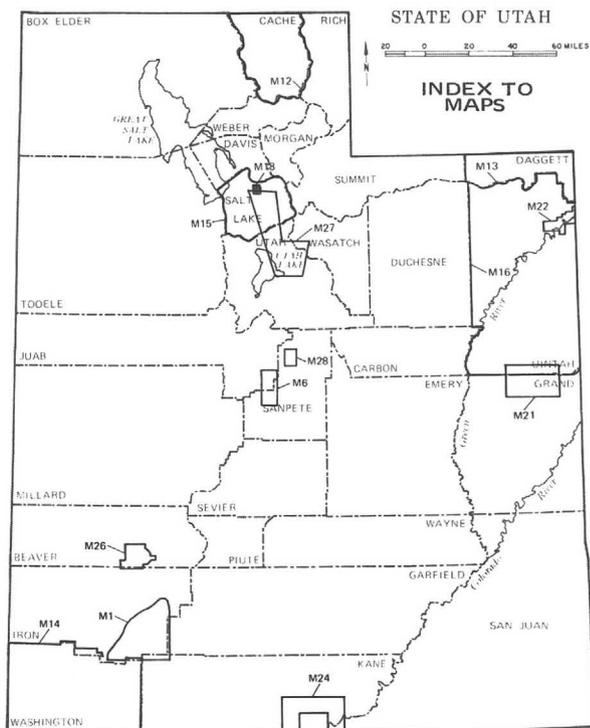
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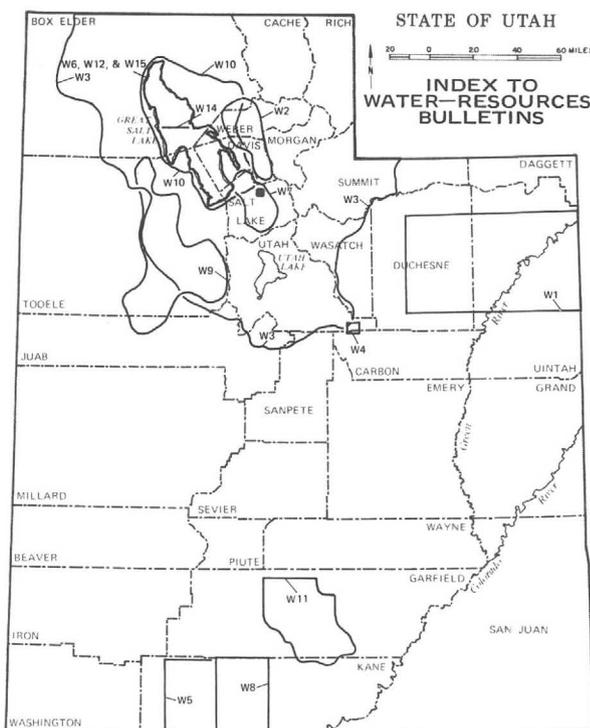
Summit County	
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Reprints	33, 39, 50, 65, 66, 68, 89, 91, 93
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All Guidebooks of the Utah Geological Society and the Intermountain Association of Geologists.	



MAPS WHICH COVER THE WHOLE STATE
M9, M20, M23, M25, & M29



WATER RESOURCES BULLETINS WHICH COVER THE WHOLE STATE
W13 & W16

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY

Bulletins (discount available)

Note: Bulletins 1-24 are published by the Utah Experiment Station in cooperation with the State Department of Publicity and Industrial Development.

No.	Price
1. Tests of Utah Brick, by E. H. Beckstrand and F. C. French, 1908.	Out of print
2. Tests of Macadam Rocks, by E. H. Beckstrand, 1909.	Out of print
3. The Construction and Maintenance of Earth Roads, by R. R. Lyman, 1910.	Out of print
4. The Economical Design of Reinforced Concrete Beams, by R. B. Ketchum, 1912.	Out of print
5. Measurement of Flowing Streams, by R. R. Lyman, 1912.	Out of print
6. Leaching a Lime-Zinc Ore with Acids, by O. C. Ralston and A. E. Gartside, 1915.	Out of print
7. Results of Experiments on Sewer Pipe and Drain Tile, by E. H. Beckstrand, 1915.	Out of print
8. Patents Relating to Oil Flotation Processes, by R. S. Lewis, 1916.	Out of print
9. Report of the Department of Metallurgical Research, State School of Mines, University of Utah, 1914-1916, by D. A. Lyon, 1916.	Out of print
10. Mine Sampling and the Commercial Value of Ores, by R. S. Lewis, 1918.	Out of print
11. Descriptive Bulletin of the Department of Metallurgical Research, State School of Mines, University of Utah, by T. M. Varley, 1919.	Out of print
12. The Mineral Industry of Utah, by R. S. Lewis, 1919.	Out of print
13. The Extraction of Potash from Low-Grade Alunite, by T. M. Varley and W. S. Reid, 1920.	Out of print

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Rept. Inv.	42
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Special Studies	1, 2, 28, 35
Water-Resources	3, 6, 10, 12, 14, 15
UGS Guidebook	20

UGMS—Bulletins (continued)

No.	Price
14. Research Investigations, 1922-1923, by T. M. Varley, 1924.	Out of print
15. Research Investigations, 1923-1924, by T. M. Varley, 1925.	Out of print
16. Research Investigations, 1924-1925, by T. M. Varley, 1925.	Out of print
17. Research Investigations, 1925-1926, by T. M. Varley, 1927.	Out of print
18. Strategic Minerals of Utah, by A. L. Crawford, 1942.	Out of print
19. Mining Laws of Utah, 1943, by R. S. Lewis, 1943.	Out of print
20. The Solution of Closed Rings with Equally Spaced Supports, by M. B. Hogan, 1943.	Out of print
21. The Solution of Closed Rings with Equally Spaced Supports and Moment Loadings, by M. B. Hogan, 1944.	Out of print
22. Bibliography on Open-Cut Mining, by R. S. Lewis and K. Eray, 1945.	Out of print
23. The Calculation of the Ultimate Depth of an Open-Cut Mine, by R. S. Lewis and K. Eray, 1945.	Out of print
24. Tungsten Reserves Discovered in the Cottonwood-American Fork Mining Districts, Utah, by A. L. Crawford and A. M. Buranek, 1944, 56 p., 6 figs. (available as Reprint 55).	50¢ Out of print
25. Tungsten Deposits of the Mineral Range, Beaver County, Utah, by A. L. Crawford and A. M. Buranek, 1945, 48 p., 5 figs. (available as reprint 56).	50¢ Out of print
26. Moment Distribution Applied to Combined Flexure and Torsion, by M. B. Hogan, 1945.	Out of print
27. The Deflection of Circular Arcs Subject to Combined Flexure and Torsion, by M. B. Hogan, 1947.	Out of print
28. Automatic Control of Temperature as a Function of Time, Using Modulated Current, by P. J. Elsey and L. D. Harris, 1945.	Out of print
29. Condensed Mining Handbook of Utah, by R. S. Lewis, 1945.	Out of print

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No.	Price	SUBJECT INDEX
30. Oxidation of Lead Sulfide, by D. Gardner, 1945.	Out of print	Age Dating Bulletin 81
31. The Derivation of Two Five-Moment Theorems for Continuous Plane Curved Beams, by M. B. Hogan, 1947.	Out of print	Aggregate Bulletins 69, 73 Special Studies 24 pt. I
32. Proceedings of the Seventh Annual Highway Engineering Conference, compiled and edited by A. Diefendorf, 1946.	Out of print	Alteration Studies Map 26 Special Studies 4, 6, 9, 12, 16, 17 UGS Guidebook 22
33. Proceedings of the Eighth Annual Highway Engineering Conference, compiled and edited by A. Diefendorf, 1947.	Out of print	Barite (see Fluorspar)
34. Age Hardening Copper-Cobalt-Manganese Alloys, by J. W. Fredrickson, 1947.	Out of print	Beaver County Bulletin 68 Map 26 Special Studies 4, 6, 9, 12, 16, 17
35. Halloysite of Agalmatolite Type, Bull Valley District, Washington County, Utah, by A. L. Crawford and A. M. Buranek, 1948, 12 p., 3 figs.	\$.10	Beryllium and Uranium Bulletins 44, 46, 73, 76 Special Studies 22, 24 pt. II IAG Guidebooks 1956, 1958, 1963 UGS Guidebooks 9, 17
36. Directory of Utah Mineral Resources and Consumer's Guide, by A. M. Buranek and C. E. Needham, 1949, 95 p., 1 pl.	\$1.00	Building Stone Bulletins 69, 73 Special Studies 24 pt. I
37. The Geology of Eastern Iron County, Utah, by H. E. Gregory, 1950, 153 p., 53 pls. and photos, 1 map.	\$1.00	Cache County Bulletins 64, 66 Map 12
38. Stratigraphy of the Burbank Hills, Western Millard County, Utah, by R. W. Rush, 1951, 24 p., 6 figs.	\$1.00	Cambrian System Bulletins 54, 54a Reprints 90, 91
39. Lower Ordovician Detailed Stratigraphic Sections for Western Utah, by L. F. Hintze, 1951, 99 p., 11 illus., 4 maps.	\$1.50	Carbon County Rept. Inv. 11
40. Bibliography of Utah Geology to December 31, 1950, by W. R. Buss, 1951, 219 p.	\$4.00	Cement (see Gypsum)
41. Geology of Lake Mountain, Utah, by K. C. Bullock, 1951, 46 p., 7 pls., 3 tables.	\$1.00	Clay Bulletins 35, 41, 55, 69, 73 Circular 49 Special Studies 4, 6, 9, 12, 24 pt. I, 26, 34, 35 UGS Guidebook 12
42. Geology of Dinosaur National Monument and Vicinity, Utah-Colorado, by G. E. Untermann and B. R. Untermann, 1954.	Out of print	Coal Bulletins 37, 71-73, 76, 80, 85 Circular 23 Rept. Inv. 1, 2 Special Studies 3, 7, 15, 18, 20, 24 pt. I, 25 IAG Guidebook 1964 UGS Guidebook 19
		Copper Bulletins 44, 69, 72, 73, 76, 82 Special Studies 28 UGS Guidebooks 12, 16, 22
		Cretaceous Bulletins 47, 54, 54a Special Studies 27
		Daggett County Bulletin 66 Map 13 Rept. Inv. 10
		Deep Creek Mountains Bulletin 77
		Devonian Bulletins 54, 54a
		Duchesne County Rept. Inv. 9

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Miscellaneous Publications (continued)

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Scenes of the Plateau Lands and How They Came to Be , by W. L. Stokes, 1969, 66 p.	\$1.00
Special Uranium Issue of Economic Geology , v. 50, no. 2, March-April, 1955. 10 papers on uranium mineralization in the western United States.	\$1.25
Map of the Great Salt Lake, Utah , by A. J. Eardley, 1961 (formerly Reprint 38).	\$.50
Mining Districts and Mineral Deposits of Utah , by C. A. Mardirosian (showing the location of 209 mining districts and mineral deposits).	\$1.50
Mining Districts and Mineral Deposits of New Mexico (exclusive of oil and gas) , compiled by C. A. Mardirosian.	\$3.00



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UGMS—Bulletins (continued)

No.	Price
43. Eastern Sevier Valley, Sevier and Sanpete Counties, Utah , by C. T. Hardy, 1952, 98 p., 4 figs., 9 pls., 1 table.	\$1.00
44. Geology and Ore Deposits of the Silver Reef (Harrisburg) Mining District, Washington County, Utah , by P. D. Proctor, 1953, 169 p., 13 figs., 11 pls., 8 tables.	\$1.00
45. Geology of the Selma Hills, Utah County, Utah , by J. K. Rigby, 1952, 107 p., 21 figs., 6 pls., 3 tables.	\$1.50
46. Uranium-Vanadium Deposits of the Thompsons Area, Grand County, Utah , by W. L. Stokes, 1952, 51 p., 12 figs., 2 pls., 1 table.	\$1.00
47. Microfossils of the Upper Cretaceous of Northeastern Utah and Southwestern Wyoming , edited by D. Jones, 1953, 158 p., 8 figs., 16 pls., 4 tables.	\$2.00
48. Lower Ordovician Trilobites from Western Utah and Eastern Nevada , by L. F. Hintze, 1952, 249 p., 28 pls.	\$2.00
49. Kanab, the Southern Gateway to Utah , by H. E. Gregory, 1963.	Out of print
50. Drilling Records for Oil and Gas in Utah , by G. H. Hansen and H. C. Scoville, 1955, 110 p., 30 illus., 1 table.	\$4.00
51. The Rocks and Scenery of Camp Steiner, Summit and Wasatch Counties, Utah , by D. J. Jones, 1955, 30 p., 13 figs., 1 pl.	\$.25
52. Geologic Atlas of Utah, Emery County , by W. L. Stokes and R. E. Cohenour, 1956, 92 p., 38 colored geologic map pls.	\$3.50
53. Silurian Rocks of Western Millard County, Utah , by R. W. Rush, 1956, 66 p., 12 figs.	\$1.50
54. Oil and Gas Possibilities of Utah, Re-evaluated , compiled and edited by A. L. Crawford, 1963, 543 p., 157 figs., 25 tables.	\$6.50

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UGMS—Bulletins (continued)

No.	Price
54a. Surface, Structure and Stratigraphy of Utah, Parts I and II of Bulletin 54 , compiled and edited by A. L. Crawford, 1963, 175 p., 50 figs., 7 tables.	Out of print
55. Clays of Utah County, Utah , by E. P. Hyatt, 1956, 83 p., 22 figs., 4 tables.	\$2.00
56. Geology of the Southern Lakeside Mountains, Utah , by J. C. Young, 1955, 110 p., 2 figs., 3 pls.	\$1.50
57. Middle Ordovician Detailed Stratigraphic Sections for Western Utah and Eastern Nevada , by G. W. Webb, 1956, 77 p., 12 figs.	\$1.00
58. Geology of the Pine Valley Mountains, Utah , by E. F. Cook, 1957, 111 p., 52 figs.	\$2.00
59. Phosphate in Utah , by T. Cheney, 1957, 54 p., 12 figs., 3 pls., 3 tables.	\$1.00
60. The Rocks and Scenery of Camp Hunt, Rich County, Utah , by C. T. Hardy, 1957, 26 p., 11 figs.	\$.25
61. The Oquirrh Formation, Stratigraphy of the Lower Portion in the Type Area and near Logan, Utah , by P. W. Nygreen, 1958, 67 p., 5 figs., 4 pls., 3 tables.	\$1.50
62. Notch Peak Intrusive, Millard County, Utah , by H. M. Gehman, Jr., 1958, 50 p., 4 pls., 12 figs., 3 tables.	\$1.50
63. Geology of the Sheeprock Mountains, Tooele County, Utah , by R. E. Cohenour, 1959, 201 p., 6 figs., 25 pls., 3 tables.	\$3.50
64. Geologic Atlas of Utah, Cache County , by J. S. Williams, 1958, 98 p., 2 figs., 13 pls., 13 colored geologic map pls.	\$3.50
65. Geology of the Stansbury Range, Tooele County, Utah , by J. A. Teichert, 1959, 75 p., 12 figs., 2 pls.	\$1.50
66. Geologic Atlas of Utah, Daggett County , by H. R. Ritzma, 1959, 111 p., 8 figs., 9 pls., 6 colored scenes, 8 geologic maps.	\$2.50

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**UTAH GEOLOGICAL ASSOCIATION
Guidebooks
(discount available)**

No.	Price
1. Environmental Geology of the Wasatch Front, 1971 (road logs available separately for \$1.00).	\$6.75

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Army Map Series Base. Scale 1:250,000
Printed by Williams and Heintz Map Corporation

Project of the College of Mines and Mineral Industries,
University of Utah
Financed by Utah State Land Board
Compiled by W. L. Stokes

NORTHEAST QUARTER, by W. L. Stokes and J. H. Madsen, Jr., 1961 (47" x 48") \$3.50
(\$4.00 mailed in continental USA)

NORTHWEST QUARTER, by W. L. Stokes, 1962 (48" x 51¼") \$3.50
(\$4.00 mailed in continental USA)

SOUTHWEST QUARTER, by L. F. Hintze, 1963 (50½" x 59½") \$3.50
(\$4.00 mailed in continental USA)

SOUTHEAST QUARTER, by L. F. Hintze and W. L. Stokes, 1963 (48" x 59½") \$3.50
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(no discount)**

The Great Basin, with Emphasis on Glacial and Post-Glacial Times, by E. Blackwelder, C. L. Hibbs, R. R. Miller and E. Antevs, 1948. \$2.00

Outline of the Geologic History and Stratigraphy of Utah, by W. L. Stokes and E. B. Heylman. \$.75

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UGS—Guidebooks (continued)

No.	Price
20. The Great Salt Lake , edited by W. L. Stokes, 1966, 173 p., 38 figs., 8 tables.	\$4.50
21. Uranium Deposits of Southeastern Utah , edited by L. F. Hintze, 1967, 194 p., 44 figs., 3 tables.	\$5.00
22. Park City District, Utah , edited by A. J. Erickson, Jr., 1968, 100 p., 38 figs., 7 pls.	\$5.00
23. The Western Grand Canyon District , edited by W. K. Hamblin and M. G. Best, 1970, 156 p., illustrated.	\$5.00

The Utah Geological Society merged into the Utah Geological Association in 1970. Utah Geological Society serial publications end with Guidebook No. 23.

Prepayment or Purchase Order required

**Miscellaneous Plates
(no discount)**

8. Plate I—Geologic Map of Central Wasatch Mountains East of Salt Lake Valley, Utah , with Roadlogs from Guidebook 8 (formerly Reprint 38).	\$.50
12. Plate XVII—Mines and Prospects of the Tintic Mining District (formerly Reprint 81).	\$.50
16. Plate I—Generalized Geology of the Northern and Central Oquirrh Mountains, Salt Lake and Tooele Counties, Utah.	\$.50
16. Plate II—Surface Geology Map of the Bingham District.	\$.50
16. Plate III—Section A-A', B-B'. To accompany surface geologic map of Bingham District.	\$.50
16. Plate IV—Section C-C', D-D'. To accompany surface geologic map of Bingham District.	\$.50
16. Plate V—Stratigraphic Correlation Chart, Bingham Mining District and Adjacent Areas.	\$.50
16. Plate VII—Map Showing Location of Field Trip Roadlog, Bingham Mining District and Central Oquirrh Mountains, Utah.	\$.50

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UGMS—Bulletins (continued)

No.	Price
67. The Rocks and Scenery of Camp Maple Dell, Utah County, Utah , by J. K. Rigby, 1959, 55 p., 16 figs., 3 pls.	\$.25
68. Beaver Lake Mountains, Beaver County, Utah , by P. J. Barosh, 1960, 89 p., 17 figs., 5 pls.	\$1.50
69. Geology of Salt Lake County , compiled and edited by A. L. Crawford, 1964, 190 p., 63 figs., 8 tables, 1 map.	\$2.50
70. Geologic Atlas of Utah, Washington County , by E. F. Cook, 1960, 119 p., 8 figs., 16 pls., 19 colored scenes, 8 colored geologic map pls.	\$3.50
71. The Mineral Resources of Uintah County , by R. G. Pruitt, Jr., 1961, 101 p., 19 figs., 11 pls.	\$2.00
72. Geology of Uintah County , by G. E. Untermann and B. R. Untermann, 1968, 98 p., 49 figs., colored geologic map in two parts (reprinted from 1964 edition).	\$2.00
73. Mineral and Water Resources of Utah , edited by L. S. Hilpert, 1969, 275 p., 36 figs., 20 tables (reprinted from 1964 edition; compiled for the U.S. Senate Committee on Interior and Insular Affairs).	\$1.00
74. Drilling Records for Oil and Gas in Utah, January 1, 1954—December 31, 1963 , by E. B. Heylman, R. E. Cohenour and R. B. Kayser, 1965, 518 p., 30 maps (a companion volume to Bulletin 50).	\$5.00
75. Reconnaissance of the Tertiary Sedimentary Rocks in Western Utah , by E. B. Heylman, 1965, 38 p., 5 figs.	\$1.25
76. Minerals of Utah , by K. C. Bullock, 1967, 237 p., 30 figs.	\$3.75
77. Geology of the Deep Creek Mountains, Tooele and Juab Counties, Utah , by K. F. Bick, 1966, 120 p., 24 figs., 2 pls.	\$2.00
78. The Cordilleran Miogeosyncline in Nevada and Utah , by R. L. Armstrong, 1967, 58 p., 10 figs., 4 pls., 1 table.	\$2.00

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UGMS—Bulletins (continued)

No.	Price
79. A Directory of the Mining Industry of Utah, 1965 , compiled by R. F. Garvin, programmed by R. B. Kayser, 1966.	Out of print
80. Central Utah Coals: A Guidebook Prepared for the Geological Society of America and Associated Societies , compiled by W. K. Hamblin and J. K. Rigby, 1966, 164 p., 71 figs., 9 pls., 3 tables.	\$5.00
81. Radioactive and Isotopic Age Determinations of Utah Rocks , compiled by J. A. Whelan, 1970, 75 p., 3 figs., 13 tables.	\$3.00
82. Guidebook of Northern Utah , edited by M. L. Jensen, 1969, 266 p., 78 figs., 3 pls., 16 tables.	\$4.00
83. Mineralization in the Gold Hill Mining District, Tooele County, Utah , by H. M. El-Shatoury and J. A. Whelan, 1970, 37 p., 12 figs., 3 pls., 7 tables.	\$2.25
84. A Directory of the Mining Industry of Utah, 1967 , compiled by N. S. Goeltz, assisted by N. Nielsen and R. L. Graham, 1970, 40 p., 21 figs.	\$1.50
85. Land and Mineral Resources of Sanpete County, Utah , by A. R. Pratt and E. Callaghan, 1970, 72 p., 29 figs., 1 pl., 21 tables.	\$2.50
86. Abstracts of Graduate Theses Concerning the Geology of Utah to 1966 , compiled and edited by B. Childers, assisted by B. Y. Smith, 1970, 236 p., 2 tables.	\$4.00
87. Stratigraphy of the San Rafael Group, Southwest and South Central Utah , by A. E. Thompson and W. L. Stokes, 1970, 54 p., 62 figs.	\$2.25
88. Iron Deposits of Utah , by K. C. Bullock, 1970, 161 p., 29 figs., 12 pls.	\$4.50
89. Palynology of the Upper Cretaceous Straight Cliffs Sandstone, Garfield County, Utah , by R. Orlansky, 1971, 61 p., 4 figs., 11 pls.	\$2.50
90. Landslides of Utah , by John F. Shroder, 51 p., 75 figs., 10 tables.	\$2.50

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UGS—Guidebooks (continued)

No.	Price
8. Geology of the Central Wasatch Mountains , edited by R. E. Marsell, 1952, 71 p., 6 pls., 9 figs.	\$1.00
9. Uranium Deposits and General Geology of Southeastern Utah , edited by W. L. Stokes, 1954, 115 p., 5 pls., 18 figs., 2 tables.	\$1.00
10. Tertiary and Quaternary Geology of the Eastern Bonneville Basin , edited by A. J. Eardley, 1955, 132 p., 35 figs.	\$2.00
11. Geology of Parts of Northwestern Utah, 1956 , 97 p., 13 figs., 1 map.	\$2.00
12. Geology of the East Tintic Mountains and Ore Deposits of the Tintic Mining District , edited by D. R. Cook, 1957, 176 p., 16 figs., 17 pls.	\$4.00
13. Geology of the Stansbury Mountains, Tooele County, Utah , edited by J. K. Rigby, 1958, 168 p., 26 figs., 9 pls.	\$2.00
14. Geology of the Southern Oquirrh Mountains and Five-mile Pass—Northern Boulder Mountains Area, Tooele and Utah Counties, Utah , by H. J. Bissell, 1959, 262 p., 25 figs., 8 pls., 11 tables.	\$2.00
15. Geology of the Silver Island Mountains, Box Elder and Tooele Counties, Utah, and Elko County, Nevada , edited by F. E. Schaeffer, 1960, 185 p., 36 figs., 3 pls.	\$2.00
16. Geology of the Bingham Mining District and Northern Oquirrh Mountains , edited by D. R. Cook, 1961, 145 p., 32 figs., 7 pls., 4 tables.	\$4.00
17. Beryllium and Uranium Mineralization in Western Juab County, Utah , edited by B. J. Sharp and N. C. Williams, 1963, 59 p., 5 figs., 2 pls.	\$2.00
18. The Wasatch Fault Zone in North Central Utah , edited by R. E. Marsell, 1964, 60 p., 11 figs., 9 pls.	\$3.50
19. Geology and Resources of South Central Utah , edited by H. D. Goode and R. A. Robison, 1965, 177 p., 45 figs., 10 tables.	\$5.00

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IAG—Guidebooks (continued)

No.	Price
1969 Geology of the Uinta Mountains, Utah's Maverick Range, 16th Annual Field Conference, edited by J. B. Lindsay, 237 p.	\$12.00

The Intermountain Association of Geologists merged into the Utah Geological Association in 1970. Intermountain Association of Geologists (and predecessor Intermountain Association of Petroleum Geologists) serial publications end with the 16th Annual Field Conference, 1969.

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Miscellaneous Plates and Publications (no discount)

1953 Geologic Map of a Portion of the Idaho-Wyoming Thrust Belt (formerly Reprint 41).	\$.75
1967 Road Logs Supplement.	\$1.00

UTAH GEOLOGICAL SOCIETY

Guidebooks (discount available)

1. Guidebook to the Geology and Geography of the Henry Mountain Region, by C. B. Hunt, 1946.	Out of print
2. Some Structural Features of the Intrusions in the Iron Springs District, by J. H. Mackin, 1947.	Out of print
3. Geology of the Utah-Colorado Salt Dome Region, with Emphasis on Gypsum Valley, Colorado, by W. L. Stokes, 1948.	Out of print
4. Transition Between the Colorado Plateaus and the Great Basin in Central Utah, by E. W. Spieker, 1949.	Out of print
5. Petroleum Geology of the Uinta Basin, edited by A. J. Eardley, 1950.	Out of print
6. Geology of the Canyon, House and Confusion Ranges, Millard County, Utah, edited by W. L. Stokes, 1951.	Out of print
7. Cedar City, Utah to Las Vegas, Nevada, edited by H. W. Thune, 1952.	Out of print

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UGMS—Bulletins (continued)

No.	Price
91. Index to the Salt Lake Mining Review, compiled by Cecil W. Warren, 111 p., 1 fig.	\$3.00
92. Gravity Base Station Network in Utah—1967, by Kenneth L. Cook, Tor H. Nilson and Justin F. Lambert, 57 p., 1 fig., 4 tables.	\$3.00
93. Geologic Hazards in Morgan County with Applications to Planning (updated from Report of Investigation 57), by B. N. Kaliser, 1972, 54 p., 45 figs., 2 pls., 9 tables.	\$2.50
94. Oil and Gas Production in Utah to 1970, compiled by Carlton Stowe, 1972.	3.50 In press, 1972
95. Magnetic Survey of Desert Mountains, Juab County, by W. E. Calkins, 1972.	2.50 In press, 1972

Circulars (no discount)

1. Report on the Copper and Asbestos Deposits of Bear Canyon, Davis County, Utah, by A. M. Buranek, 1942.	Out of print
2. Tremolite Deposits of the Mineral Range, Millard County, Utah, by A. L. Crawford and A. M. Buranek, 1942.	Out of print
3. Report on the Silver Eagle Mine, Mantua, Utah, by A. M. Buranek, 1942.	Out of print
4. Report on the Mineral Point Copper Mine, Cache County, Utah, by A. M. Buranek, 1942.	Out of print
5. Report on the Fluorite Deposits of the Wildcat Mountains, Tooele County, Utah (updated and superceded by Circular 31).	Out of print
6. Bull Valley Iron Reserves, by G. H. Hansen, A. L. Crawford and R. Chorney, 1942.	Out of print
7. A Brief Reconnaissance of the Iron Deposits of the Wah Wah Range, Iron Peak, Three Peaks, Cove Mountains, and Iron Mountain in Southern Utah.	Out of print

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UGMS—Circulars (continued)

No.	Price
8. Iron Ore from Iron Peak—Notes on Its Mineral Association and Paragenesis , by A. L. Crawford and R. Chorney, 1942.	Out of print
9. Report on the Lead Ore Mine, Tooele County, Utah , by A. M. Buranek, 1942.	Out of print
10. Report on the Milljohn Silver-Lead Claim, Juab County, Utah , by A. L. Crawford and A. M. Buranek, 1942.	Out of print
11. Manganese Deposits Northwest of Panguitch, Utah , by A. L. Crawford and A. M. Buranek, 1942.	Out of print
12. Report on the Manganese Deposits of the Lake Mountains, Utah County, Utah (revised and superceded by Circular 35).	Out of print
13. The Geology and Mineral Deposits of the Lake Mountains, Utah County, Utah (revised and superceded by Circular 35).	Out of print
14. Report on the Magnesite Deposits of the Silver Shield Mining and Milling Company, Juab County, Utah , by A. M. Buranek and A. L. Crawford, 1942.	Out of print
15. Report on the Occurrences of Magnesium Sulphate in Emery and Sanpete Counties, Utah , by A. L. Crawford and A. M. Buranek, 1942.	Out of print
16. Report on the Mica and Metals Property, Morgan County, Utah , by A. M. Buranek, 1942.	Out of print
17. Uranium Deposits Covered by the Radiant Claims, Kane County, Utah , by A. M. Buranek, 1942 (reprinted 1959).	Out of print
18. Report on the Lucky Boy and Utah-Pioche Mines, Davis County, Utah , by A. M. Buranek, 1942.	Out of print
19. Report on the Economic Geology of the Northern End of the Mineral Range, Millard County, Utah.	Out of print
20. Report on the Mono and Kearsarge Holdings, Dry Canyon, Tooele County, Utah , by A. L. Crawford and A. M. Buranek, 1942.	Out of print

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IAG—Guidebooks (continued)

No.	Price
1956 Geology and Economic Deposits of East Central Utah , edited by J. A. Peterson.	Out of print
1957 Guidebook to the Geology of the Uinta Basin , edited by O. G. Seal.	Out of print
1958 Guidebook to the Geology of the Paradox Basin , 9th Annual Field Conference, edited by A. F. Sanborn, 308 p.	\$5.00
1959 Guidebook to the Geology of the Wasatch and Uinta Mountains Transition Area , 10th Annual Field Conference, edited by N. C. Williams, 235 p.	\$9.50
1960 Guidebook to the Geology of East Central Nevada , edited by J. W. Boettcher and W. W. Sloan.	Out of print
1961 A Symposium of the Oil and Gas Fields of Utah , edited by D. Preston.	\$9.00
1962 No guidebook issued.	
1963 Guidebook to the Geology of Southwestern Utah , 12th Annual Field Conference, edited by E. B. Heylman, 232 p.	\$9.00
1964 Guidebook to the Geology and Mineral Resources of the Uinta Basin—Utah's Hydrocarbon Storehouse , 13th Annual Field Conference, edited by E. F. Sabatka, 277 p.	\$12.00
1965 Available as Utah Geological Society Guidebook 19.	
1966 No guidebook issued.	
1967 Anatomy of the Western Phosphate Field , 15th Annual Field Conference, edited by L. A. Hale, 287 p.	\$12.50
1968 Available as Utah Geological Society Guidebook 22.	

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UGMS—Water-Resources Bulletins (continued)

No.	Price
10. Dissolved-Mineral Inflow to Great Salt Lake and Chemical Characteristics of the Salt Brine: Summary for Water Years 1960, 1961 and 1964, by D. C. Hahl, 1968, 35 p., 17 figs., 15 tables.	\$2.00
11. Reconnaissance Appraisal of the Water Resources near Escalante, Garfield County, Utah, by H. D. Goode, 1969, 38 p., 5 figs., 4 pls., 8 tables.	\$2.00
12. Great Salt Lake, Utah: Chemical and Physical Variations of the Brine, 1963-1966, by D. C. Hahl and A. H. Handy, 1969, 33 p., 16 figs., 7 tables.	\$2.00
13. Major Thermal Springs of Utah, by J. C. Mundorff, 1970, 60 p., 23 figs., 2 pls., 2 tables.	\$3.00
14. The Effects of a Causeway on the Chemistry of the Brine in Great Salt Lake, Utah, by R. J. Madison, 1970, 52 p., 13 figs., 7 tables.	\$2.50
15. An Evaluation of Eddy Flux Techniques in Computing Evaporation from the Great Salt Lake, by D. R. Dickson and A. E. Rickers, 1970, 10 p., 3 figs.	\$1.00
16. Nonthermal Springs of Utah, by J. C. Mundorff, 70 p., 15 figs., 2 pls., 2 tables.	\$4.00

INTERMOUNTAIN ASSOCIATION OF GEOLOGISTS

Guidebooks
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1951 Geology of the Canyon, House and Confusion Ranges, Millard County, Utah.	Out of print
1952 Cedar City, Utah to Las Vegas, Nevada.	Out of print
1953 Geology of Northern Utah and Southeastern Idaho.	Out of print
1954 Geology of the High Plateaus, Central and South Central Utah.	Out of print
1955 Geology of Northwest Colorado, edited by H. R. Ritzma and S. S. Oriol.	Out of print

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UGMS—Circulars (continued)

No.	Price
21. The Natural Resources and Chemical Industries of Utah, by A. M. Buranek, 1942.	Out of print
22. The Occurrence of Vanadium-Uranium Ores in Utah and Colorado, by A. M. Buranek, 1942.	Out of print
23. Resinous Coals, Salina and Huntington Canyons, Utah, by A. L. Crawford and A. M. Buranek, 1943 (reprinted 1959).	Out of print
24. Utah Iron Deposits Other Than Those of Iron and Washington Counties, by A. L. Crawford and A. M. Buranek, 1943 (reprinted 1957).	Out of print
25. The Occurrence of Celestite on the San Rafael Swell, Emery County, Utah, by A. L. Crawford and A. M. Buranek, 1943 (reprinted 1957).	Out of print
26. Certain Tungsten Deposits of the Mineral Range, Beaver County, Utah (superceded by Utah Engineering Experiment Station Bulletin 25).	Out of print
27. Location and Production of Strategic Minerals of Utah, 1944, by A. M. Buranek, 1944.	Out of print
28. The Molybdenum Deposits of White Pine Canyon, near Alta, Salt Lake County, Utah, 1944, by A. M. Buranek, 1944 (reprinted 1957).	Out of print
29. Amazon Stone—A New Variety of Feldspar for Utah; With Notes on the Laccolithic Character of the House Range Intrusive, by A. L. Crawford and A. M. Buranek, 1944.	Out of print
30. The Martite Iron Deposits at Twin Peaks, Millard County, Utah, 1945, by A. L. Crawford and A. M. Buranek, 1945.	Out of print
31. The Fluorspar Deposits of the Wildcat Mountains, Tooele County, Utah, 1945, by A. M. Buranek, 1945 (supplement to Circular 5).	Out of print
32. Certain High Quality Limestones and Dolomites of the Cricket Mountains, Millard County, Utah, 1945, by A. M. Buranek, 1945.	Out of print

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UGMS—Circulars (continued)

No.	Price
33. The Johnson Manganese Deposit, Kane County, Utah, 1945 , by A. M. Buranek, 1945.	Out of print
34. The Black Warrior Mine, Washington County, Utah.	Out of print
35. A Reconnaissance of the Geology and Mineral Deposits of the Lake Mountains, Utah County, Utah, 1948 , by A. L. Crawford and A. M. Buranek, 1948 (reprinted 1951).	Out of print
36. Fluorite in Utah , by A. M. Buranek, 1948 (reprinted 1951).	Out of print
37. Metal Mining in Utah, 1935-50 , by C. E. Needham and A. M. Buranek, 1950.	Out of print
38. Diatomaceous Earth near Bryce Canyon National Park, Utah , by A. L. Crawford, 1951.	Out of print
39. The Library of Samples for Geologic Research, Mines Building, University of Utah—Facilities and Potentialities , by A. L. Crawford, 1959.	Out of print
40. Iron Ore Mining in Utah , by E. F. Hanson, 1961.	Out of print
41. Oil Shale on Chris' Creek, Juab County, Utah—The Mystery of the Legendary First Retort , by A. L. Crawford, 1961.	Out of print
42. 1963 List of Publications.	Out of print
43. Supplement I to Circular 39, Catalog of Samples Available from Library of Samples for Geologic Research, 1962 , by K. C. Thomson, 1962.	Out of print
43a. Catalog: Library of Samples for Geologic Research, January 1962 and October 1963 , by K. C. Thomson, 1963.	Out of print
44. Transportation of Energy from Coal, Utah to California , Utah Section of the AIME, Symposium, 1963.	Out of print
45. Fossil Localities in Utah, 1964.	\$.10 postage
46. Plain Facts about Oil and Gas in Utah , by E. B. Heylman, 1965.	\$.25 postage

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Water-Resources Bulletins
(discount available)

No.	Price
1. Water Production from Oil Wells of the Uinta Basin , by H. D. Goode and R. D. Feltis, 1962, 23 p., 4 figs., 3 pls., 2 tables.	\$1.00
2. Ground-Water Conditions in the Southern and Central Parts of the East Shore Area, Utah, 1953-1961 , by R. E. Smith and J. S. Gates, 1963, 41 p., 8 figs., 2 pls., 4 tables.	Out of print
3. Part I—Dissolved-Mineral Inflow to Great Salt Lake and Chemical Characteristics of the Salt Lake Brine: Selected Hydrologic Data , by D. C. Hahl and C. G. Mitchell, 1963, 40 p., 1 pl., 7 tables.	\$1.75
Part II—Dissolved-Mineral Inflow to Great Salt Lake and Chemical Characteristics of the Salt Lake Brine: Technical Report , by D. C. Hahl and R. H. Langford, 1964, 40 p., 9 figs., 9 tables.	\$1.25
4. Hydrogeologic Reconnaissance of Part of the Headwaters Area of the Price River, Utah , by R. M. Cordova, 1964, 26 p., 5 figs., 8 tables.	\$1.75
5. Reconnaissance of Water Resources of a Part of Western Kane County, Utah , by H. D. Goode, 1964, 62 p., 12 figs., 3 pls., 7 tables.	\$1.00
6. Evaporation Studies, Great Salt Lake , by E. L. Peck, D. R. Dickson and C. McCullom, 1965, 36 p., 9 figs., 4 tables.	\$2.50
7. Geology and Ground-Water Resources of the Jordan Valley, Utah , by I. W. Marine and D. Price, 1964, 67 p., 30 figs., 9 tables.	\$3.00
8. Second Reconnaissance of Water Resources in Western Kane County, Utah , by H. D. Goode, 1966, 44 p., 10 figs., 4 pls., 6 tables.	\$1.00
9. Reconnaissance of the Chemical Quality of Water in Western Utah; Part I: Sink Valley Drainage Basins of Skull, Rush and Government Creek Valleys and the Dugway Valley—Old River Bed Area , by K. M. Waddell, 1967, 15 p., 6 figs., 3 tables.	\$1.50

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UGMS—Special Studies (continued)

No.	Price
29. Tertiary Volcanic Rocks of Needles Range, Western Utah, by O. G. Conrad, 1969, 28 p., 5 figs., 5 pls., 1 table.	\$2.00
30. Subsurface Brines and Soluble Salts of Subsurface Sediments, Sevier Lake, Millard County, Utah, by J. A. Whelan, 1969, 13 p., 2 figs., 6 tables.	\$1.00
31. P. R. Spring Oil-Impregnated Sandstone Deposit, Uintah and Grand Counties, Utah, by W. D. Byrd III, 1970, 34 p., 2 figs., 17 pls., 4 tables.	\$5.00
32. Governor's Conference on Geologic Hazards in Utah, 1970, 28 p., 18 figs., 6 tables.	\$1.50
33. Sedimentology of Oil-Impregnated Lacustrine and Fluvial Sandstone, P. R. Spring Area, Uinta Basin, Utah, by M. D. Picard and L. R. High, 1970, 32 p., 27 figs., 6 tables.	\$2.00
34. Origin of Pyrophyllite-Rectorite, by G. V. Henderson, 1971, 46 p., 28 figs., 24 tables.	\$2.00
35. Clay Mineralogy at the Brine-Sediment Interface in the South Arm of Great Salt Lake, Utah, by L. L. Hedburg and W. T. Parry, 1971, 12 p., 9 figs., 8 tables.	\$1.00
36. Petrographic Criteria for Recognition of Lacustrine and Fluvial Sandstone, P. R. Spring Oil-Impregnated Sandstone Area, Southeast Uinta Basin, Utah, by M. D. Picard, 24 p.	\$1.50
37. Instrumental Analysis of Tars and Their Correlations in Oil-Impregnated Sandstone Beds, Uintah and Grand Counties, Utah, by J. W. Gwynn, 64 p.	\$3.00
38. Engineering Geology of the City and County Building, Salt Lake City, Utah, by B. N. Kaliser, 1971, 16 p., 7 figs.	\$1.00
39. Analyses of Oil Extracted From Oil-Impregnated Sandstone Deposits in Utah, by H. R. Ritzma and R. E. Wood, 1972, 28 p., 3 figs., 2 tables.	\$1.50

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UGMS—Circulars (continued)

No.	Price
47. Gold Placers in Utah, compiled by the Utah Geological and Mineralogical Survey from United States Geological Survey bulletins and professional papers, 1966.	\$.25
48. Catalog: Library of Samples for Geological Research Consolidated Index, 1951-1965, 1966.	Out of print
49. Semi-Quantitative Estimates of Bulk Mineralogical Composition of Some Utah Shales, Siltstones and Related Materials, by J. A. Whelan, J. R. Odekirk and L. Barraclough, 1966.	\$.25 postage
50. Catalog: Library of Samples for Geological Research, Consolidated Index, 1951-1966, compiled and programmed by R. B. Kayser, R. E. Willie, W. D. Byrd and R. C. Fox, 1967, 314 p.	Out of print
51. Not issued	
52. Catalog: Library of Samples for Geological Research, Supplement to Consolidated Index, 1951-1966—Material Added in 1967, compiled and programmed by W. D. Byrd, R. C. Fox, R. E. Willie and H. R. Ritzma, 1968, 24 p.	\$1.00
53. Catalog: Library of Samples for Geological Research, Second Supplement to Consolidated Index, 1951-1966—Material Added in 1968, compiled by R. C. Fox, 1969, 12 p.	\$1.00

Earth Science Series
(no discount)

1. Field Guide to the Geology of the Uinta Mountains and Adjacent Synclinal Basin, by G. E. Untermann and B. R. Untermann, 13 p., illus. (revision of Reprint 43).	\$.50
2. Environmental Geology and Geologic Hazards in Utah: A Photographic Series, by B. N. Kaliser, 5 p., 100 slide transparencies.	\$35.00

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Maps
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No.	Price
1. Reconnaissance Geologic Map of Eastern Iron County, Utah , by H. E. Gregory (formerly Reprint 37).	\$.50
2. Geologic Map Index of Utah, 1948 , by G. E. Untermann and B. R. Untermann.	Out of print
3. Colored Relief Map of Utah.	Out of print
4. A Correlation Chart of Formations in Utah.	Out of print
5. Geology of the Egnar-Gypsum Valley Area, San Miguel and Montrose Counties, Colorado , by W. L. Stokes and D. A. Phoenix, 1948 (formerly Reprint 27).	\$.50
6. Geology of the West Central Part of the Gunnison Plateau, Utah , by C. T. Hardy and H. D. Zeller, 1953 (formerly Reprint 33a).	\$.25
7. Index to Unpublished Geologic Thesis Mapping in Utah , by L. F. Hintze, 1958 (formerly Reprint 58).	\$.50
8. Colored Geologic Map of Utah , from Guidebook to Annual Brigham Young University Geology Field Trip.	Out of print
9. Physiographic Map of Utah , by E. J. Raisz (formerly Reprint 78).	\$.15
10. Geologic Map of Dinosaur National Monument and Vicinity.	Out of print
11. No map issued.	
12. Colored Geologic Map of Cache County, Utah , by J. S. Williams (formerly Reprint 64).	\$1.00
13. Colored Geologic Map of Daggett County, Utah , by H. R. Ritzma, 1959 (formerly Reprint 76).	\$1.00
14. Colored Geologic Map of Washington County , by E. F. Cook, 1960 (formerly Reprint 84).	\$1.00
15. Colored Geologic Map of Salt Lake County , by R. E. Marsell and R. L. Threet, 1960 (formerly Reprint 83).	\$1.00

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UGMS—Special Studies (continued)

No.	Price
19. Bituminous Sandstone Deposits of Asphalt Ridge, Uintah County, Utah , by R. B. Kayser, 1966, 62 p., 2 pls., 6 figs., 12 tables.	\$2.75
20. Kaiparowits Plateau, Garfield County, Utah, Escalante-Upper Valley Coal Area , by H. H. Doelling, 1967, 16 p., 2 figs., 4 pls., 1 table.	\$1.50
21. Rates of Denudation as Measured by Bristlecone Pines, Cedar Breaks, Utah , by A. J. Eardley and W. Vivant, 1967, 13 p., 3 figs.	\$1.00
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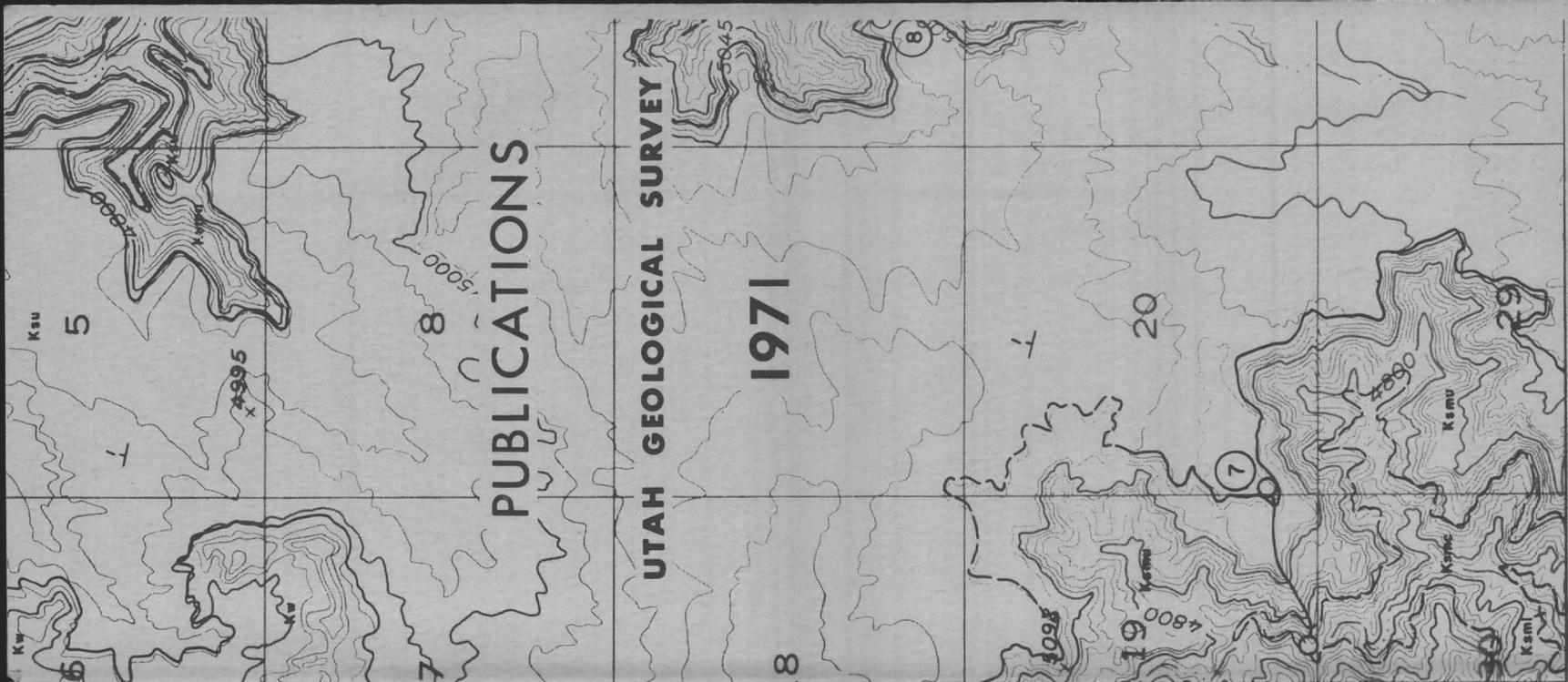
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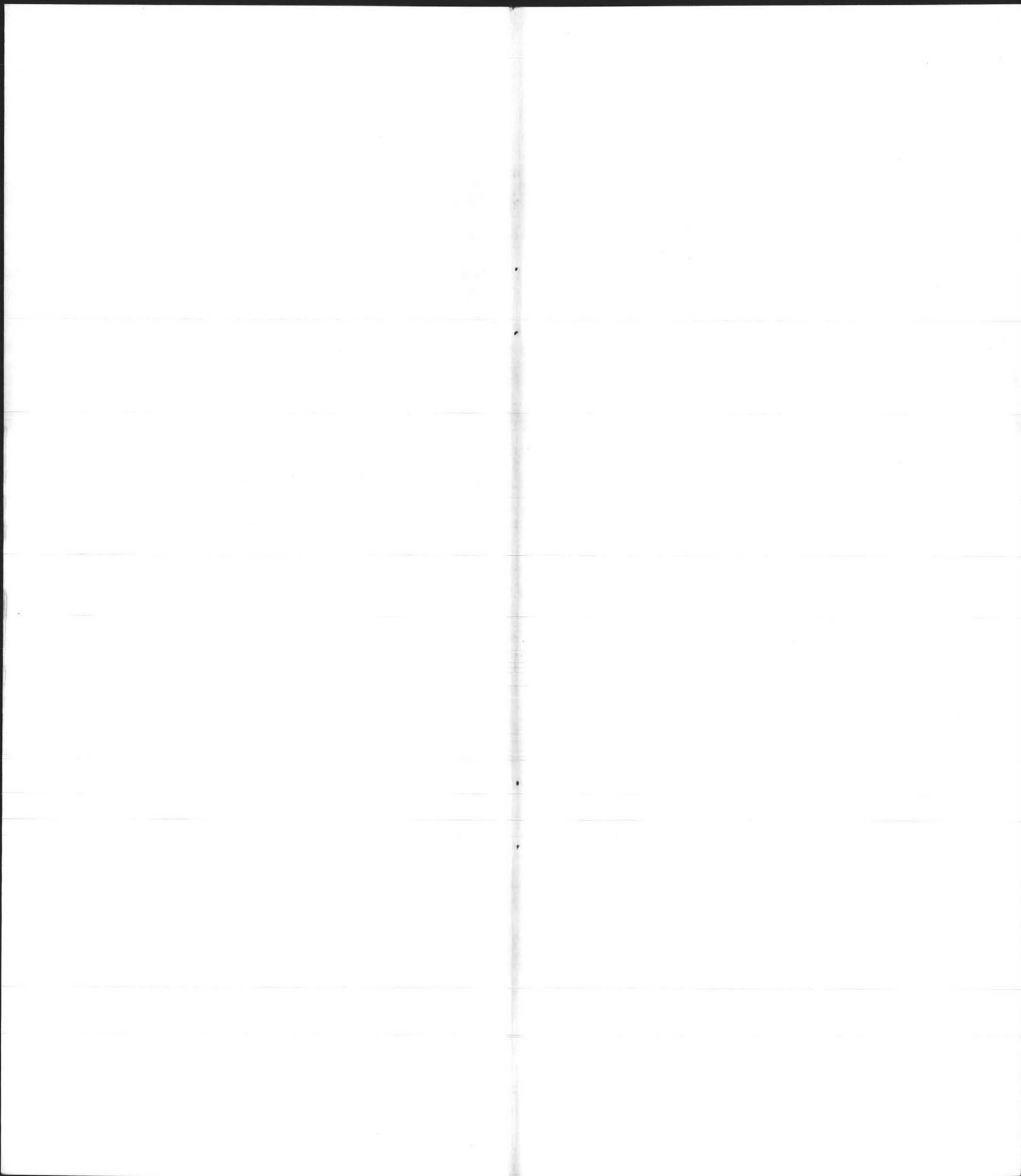
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10. <i>Mine Sampling and the Commercial Value of Ores</i> by R. S. Lewis, 1918.	Out of print
11. <i>Descriptive Bulletin of the Department of Metallurgical Research, State School of Mines, University of Utah</i> by T. M. Varley, 1919.	Out of print
12. <i>The Mineral Industry of Utah</i> by R. S. Lewis, 1919.	Out of print
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UTAH GEOLOGICAL SOCIETY
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UTAH GEOLOGICAL SOCIETY GUIDEBOOKS

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70. <i>Geologic Atlas of Utah, Washington County</i> by E. F. Cook, 1960, 119 p., 8 figs., 16 pls., 19 colored scenes, 8 colored geologic map pls.	\$3.50
71. <i>The Mineral Resources of Uintah County</i> by R. G. Pruitt, Jr., 1961, 101 p., 19 figs., 11 pls.	\$2.00
72. <i>Geology of Uintah County</i> by G. E. Untermann and B. R. Untermann, 1968, 98 p., 49 figs., colored geologic map in two parts (reprinted from 1964 edition).	\$2.00

INTERMOUNTAIN ASSOCIATION OF GEOLOGISTS

MISCELLANEOUS PLATES AND PUBLICATIONS (no discount)

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1967	<i>Road Logs Supplement</i>	\$1.00

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1965. Available as Utah Geological Society Guidebook 19.
1966. No Guidebook Issued
1967. *Anatomy of the Western Phosphate Field* 15th Annual Field Conference, edited by L. A. Hale, 287 p. \$12.50
1968. Available as Utah Geological Society Guidebook 22.
1969. *Geology of the Uinta Mountains, Utah's Maverick Range* 16th Annual Field Conference, edited by J. B. Lindsay, 237 p. \$12.00
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- The Intermountain Association of Geologists merged into the Utah Geological Association in 1970. Intermountain Association of Geologists (and predecessor Intermountain Association of Petroleum Geologists) serial publications end with the 16th Annual Field Conference, 1969.
73. *Mineral and Water Resources of Utah* edited by L. S. Hilpert, 1969, 275 p., 36 figs., 20 tables (reprinted from 1964 edition; compiled for the U.S. Senate Committee on Interior and Insular Affairs). \$1.00
74. *Drilling Records for Oil and Gas in Utah, January 1, 1954-December 31, 1963* by E. B. Heylman, R. E. Cohenour and R. B. Kayser, 1965, 518 p., 30 maps (a companion volume to Bulletin 50). \$5.00
75. *Reconnaissance of the Tertiary Sedimentary Rocks in Western Utah* by E. B. Heylman, 1965, 38 p., 5 figs. \$1.25
76. *Minerals of Utah* by K. C. Bullock, 1967, 237 p., 30 figs. \$3.75
77. *Geology of the Deep Creek Mountains, Tooele and Juab Counties, Utah* by K. F. Bick, 1966, 120 p., 24 figs., 2 pls. \$2.00
78. *The Cordilleran Miogeosyncline in Nevada and Utah* by R. L. Armstrong, 1967, 58 p., 10 figs., 4 pls., 1 table. \$2.00
79. *A Directory of the Mining Industry of Utah, 1965* compiled by R. F. Garvin, programmed by R. B. Kayser, 1966. Out of print
80. *Central Utah Coals: A Guidebook Prepared for the Geological Society of America and Associated Societies* compiled by W. K. Hamblin and J. K. Rigby, 1966, 164 p., 71 figs., 9 pls., 3 tables. \$5.00
81. *Radioactive and Isotopic Age Determinations of Utah Rocks* compiled by J. A. Whelan, 1970, 75 p., 3 figs., 13 tables. \$3.00
82. *Guidebook of Northern Utah* edited by M. L. Jensen, 1969, 266 p., 78 figs., 3 pls., 16 tables. \$4.00
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| 16. <i>Report on the Mica and Metals Property, Morgan County, Utah</i> by A. M. Buranek, 1942. | Out of print | See page 37 for Quarter Colored Geologic Maps of Utah | |
| 17. <i>Uranium Deposits Covered by the Radiant Claims, Kane County, Utah</i> by A. M. Buranek, 1942 (reprinted 1959). | Out of print | | |
| 18. <i>Report on the Lucky Boy and Utah-Pioche Mines, Davis County, Utah</i> by A. M. Buranek, 1942. | Out of print | | |
| 19. <i>Report on the Economic Geology of the Northern End of the Mineral Range, Millard County, Utah.</i> | Out of print | | |
| 20. <i>Report on the Mono and Kearsarge Holdings, Dry Canyon, Tooele County, Utah</i> by A. L. Crawford and A. M. Buranek, 1942. | Out of print | | |
| 21. <i>The Natural Resources and Chemical Industries of Utah</i> by A. M. Buranek, 1942. | Out of print | | |
| 22. <i>The Occurrence of Vanadium-Uranium Ores in Utah and Colorado</i> by A. M. Buranek, 1942. | Out of print | | |
| 23. <i>Resinous Coals, Salina and Huntington Canyons, Utah</i> by A. L. Crawford and A. M. Buranek, 1943 (reprinted 1959). | Out of print | | |
| 24. <i>Utah Iron Deposits other than those of Iron and Washington Counties</i> by A. L. Crawford and A. M. Buranek, 1943 (reprinted 1957). | Out of print | | |
| 25. <i>The Occurrence of Celestite on the San Rafael Swell, Emery County, Utah</i> by A. L. Crawford and A. M. Buranek, 1943 (reprinted 1957). | Out of print | | |
| 26. <i>Certain Tungsten Deposits of the Mineral Range, Beaver County, Utah</i> (superseded by Utah Engineering Experiment Station Bulletin 25). | Out of print | | |

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| 16. <i>Colored Geologic Map of Uintah County, Utah</i> by G. E. Untermann, B. R. Untermann and D. M. Kinney, 1964 (in two parts; formerly Reprint 88). | \$ 1.50
\$3.00 per set | 27. <i>Location and Production of Strategic Minerals of Utah, 1944</i> by A. M. Buranek, 1944. | Out of print |
| 17. <i>Mineral Resources Map of Uintah County</i> by R. G. Pruitt. | Out of print | 28. <i>The Molybdenum Deposits of White Pine Canyon, near Alta, Salt Lake County, Utah, 1944</i> by A. M. Buranek, 1944 (reprinted 1957). | Out of print |
| 18. <i>Earthquake Fault Map of a Portion of Salt Lake County, Utah</i> by R. E. Marsell. | \$.10 | 29. <i>Amazon Stone - A New Variety of Feldspar for Utah; With notes on the Laccolithic Character of the House Range Intrusive</i> by A. L. Crawford and A. M. Buranek, 1944. | Out of print |
| 19. <i>Geologic Map Index of Utah</i> by L. F. Hintze and L. Boardman, 1964 (in two parts). | \$1.00 per set | 30. <i>The Martite Iron Deposits at Twin Peaks, Millard County, Utah, 1945</i> by A. L. Crawford and A. M. Buranek, 1945. | Out of print |
| 20. <i>Shaded Relief Map of Utah 1965.</i>
40 each in lots of 100 (\$ 40.00)
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20 each in lots of 1,000 (\$200.00) | \$.50 each | 31. <i>The Fluorspar Deposits of the Wildcat Mountains, Tooele County, Utah, 1945</i> by A. M. Buranek, 1945 (supplement to Circular 5). | Out of print |
| 21. <i>Base Map of the Book Cliffs - P. R. Spring Area.</i> | \$.50 | 32. <i>Certain High Quality Limestones and Dolomites of the Cricket Mountains, Millard County, Utah, 1945</i> by A. M. Buranek, 1945. | Out of print |
| 22. <i>Geologic Map of the Dinosaur National Monument, Colorado-Utah</i> by G. E. Untermann and B. R. Untermann, 1965. | \$1.25 | 33. <i>The Johnson Manganese Deposit, Kane County, Utah, 1945</i> by A. M. Buranek, 1945. | Out of print |
| 23. <i>Colored Geologic Map of Utah</i> prepared by U. S. Geological Survey, published by Utah Geological Survey. Formation names are listed on correlation chart on back of sheet (8½" x 11").
12 each in lots of 50 (\$ 6.00)
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| 24. <i>Kaiparowits Coal Maps A through G</i> by H. A. Waldrop, R. L. Sutton, F. Peterson and G. W. Horton, 1967. | \$6.00 per set, mailed | 35. <i>A Reconnaissance of the Geology and Mineral Deposits of the Lake Mountains, Utah County, Utah, 1948</i> by A. L. Crawford and A. M. Buranek, 1948 (reprinted 1951). | Out of print |
| 25. <i>Preliminary Location Map, Oil-Impregnated Rock Deposits of Utah</i> compiled by H. R. Ritzma, 1968. | \$1.50 | 36. <i>Fluorite in Utah</i> by A. M. Buranek, 1948 (reprinted 1951.) | Out of print |
| 26. <i>Volcanic Stratigraphy, Magnetic Data and Alteration Geologic Map and Sections of the Jarloose Mining District Southeast of Minersville, Beaver County, Utah</i> by M. P. Erikson, assisted by J. Dasch, 1968. | \$1.00 | 37. <i>Metal Mining in Utah, 1935-50</i> by C. E. Needham and A. M. Buranek, 1950. | Out of print |
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| | | 39. <i>The Library of Samples for Geologic Research, Mines Building, University of Utah - Facilities and Potentialities</i> by A. L. Crawford, 1959. | Out of print |
| | | 40. <i>Iron Ore Mining in Utah</i> by E. F. Hanson, 1961. | Out of print |
| | | 41. <i>Oil Shale on Chris' Creek, Juab County, Utah - The Mystery of the Legendary First Retort</i> by A. L. Crawford, 1961. | Out of print |

42. <i>1963 List of Publications.</i>	Out of print
43. <i>Supplement I to Circular 39, Catalog of Samples Available from Library of Samples for Geologic Research, 1962</i> by K. C. Thomson, 1962.	Out of print
43a. <i>Catalog: Library of Samples for Geologic Research, January 1962 and October 1963</i> by K. C. Thomson, 1963.	Out of print
44. <i>Transportation of Energy from Coal, Utah to California</i> Utah Section of the AIME, Symposium, 1963.	Out of print
45. <i>Fossil Localities in Utah 1964.</i>	\$.10 postage
46. <i>Plain Facts about Oil and Gas in Utah</i> by E. B. Heylman, 1965.	\$.25 postage
47. <i>Gold Placers in Utah</i> compiled by the Utah Geological and Mineralogical Survey, United States Geological Survey Bulletins and Professional Papers, 1966.	\$.25
48. <i>Catalog: Library of Samples for Geologic Research Consolidated Index, 1951-1965, 1966.</i>	Out of print
49. <i>Semi-Quantitative Estimates of Bulk Mineralogical Composition of Some Utah Shales, Siltstones and Related Materials</i> by J. A. Whelan, J. R. Odekirk and L. Barraclough, 1966.	\$.25 postage
50. <i>Catalog: Library of Samples for Geological Research, Consolidated Index, 1951-1966</i> compiled and programmed by R. B. Kayser, R. E. Willie, W. D. Byrd and R. C. Fox, 1967, 314 p.	\$1.00
51. Not issued	
52. <i>Catalog: Library of Samples for Geological Research, Supplement to Consolidated Index, 1951-1966 - Material Added in 1967</i> compiled and programmed by W. D. Byrd, R. C. Fox, R. E. Willie and H. R. Ritzma, 1968, 24 p.	\$1.00
53. <i>Catalog: Library of Samples for Geological Research, Second Supplement to Consolidated Index, 1951-1966 - Material Added in 1968</i> compiled by R. C. Fox, 1969, 12 p.	\$1.00

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4. <i>A Correlation Chart of Formations in Utah.</i>	Out of print
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6. <i>Geology of the West Central Part of the Gunnison Plateau, Utah</i> by C. T. Hardy and H. D. Zeller, 1953 (formerly Reprint 33a).	\$.25
7. <i>Index to Unpublished Geologic Thesis Mapping in Utah</i> by L. F. Hintze, 1958 (formerly Reprint 58).	\$.50
8. <i>Colored Geologic Map of Utah, from Guidebook to Annual Brigham Young University Geology Field Trip.</i>	Out of print
9. <i>Physiographic Map of Utah</i> by E. J. Raisz (formerly Reprint 78).	\$.15
10. <i>Geologic Map of Dinosaur National Monument and Vicinity.</i>	Out of print
11. <i>No map issued.</i>	
12. <i>Colored Geologic Map of Cache County, Utah</i> by J. S. Williams (formerly Reprint 64).	\$1.00
13. <i>Colored Geologic Map of Daggett County, Utah</i> by H. R. Ritzma, 1959 (formerly Reprint 76).	\$1.00
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15. <i>Colored Geologic Map of Salt Lake County</i> by R. E. Marsell and R. L. Threet, 1960 (formerly Reprint 83).	\$1.00

90. *Late Middle Cambrian Faunas from Western Utah* by R. A. Robison, 1964, 56 p., 14 pls. (reprinted from *Jour. of Paleontology*, v. 38, No. 3).

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91. *Upper Middle Cambrian Stratigraphy of Western Utah* by R. A. Robison, 1964, 18 p., 5 figs., 2 tables (reprinted from *Geol. Soc. America Bull.* 75).

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92. *Gravity Studies in Utah* by K. L. Cook, 1965, 3 p., 1 fig., 1 table (reprinted from *Trans. America Geophy. Union*, v. 46, No. 3).

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94. *Seismicity in Utah, 1850 through June 1965* by K. L. Cook and R. B. Smith, 1967, 19 p., 3 tables, 3 figs. (reprinted from *Bull. Seismol. Soc. America*, v. 57, No. 4).

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95. *Regional Gravity Survey of the Hurricane Fault Area and Iron Springs District, Utah* by K. L. Cook and E. Hardman, 1967, 13 p., 3 figs., 1 pl. (reprinted from *Geol. Soc. America Bull.* 78).

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96. *Great Salt Lake* by R. E. Cohenour, 1968 (reprinted from *Encyclopedia of Earth Sciences Series*, v. 3).

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97. *Third Symposium on Salt* edited by J. L. Rau and L. F. Dellwig, 1970 (reprinted from the *Third Symposium on Salt*, 1966).

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7. <i>Summary of the Cambrian Stratigraphy of Utah</i> by H. M. Schneider, 1952 (reprinted from <i>The Oil and Gas Possibilities of Utah</i> , 1949).	Out of print
8. <i>The Ordovician, Silurian and Devonian Systems of Utah</i> by F. F. Hintze and L. F. Hintze, 1952 (reprinted from <i>The Oil and Gas Possibilities of Utah</i> , 1949).	Out of print
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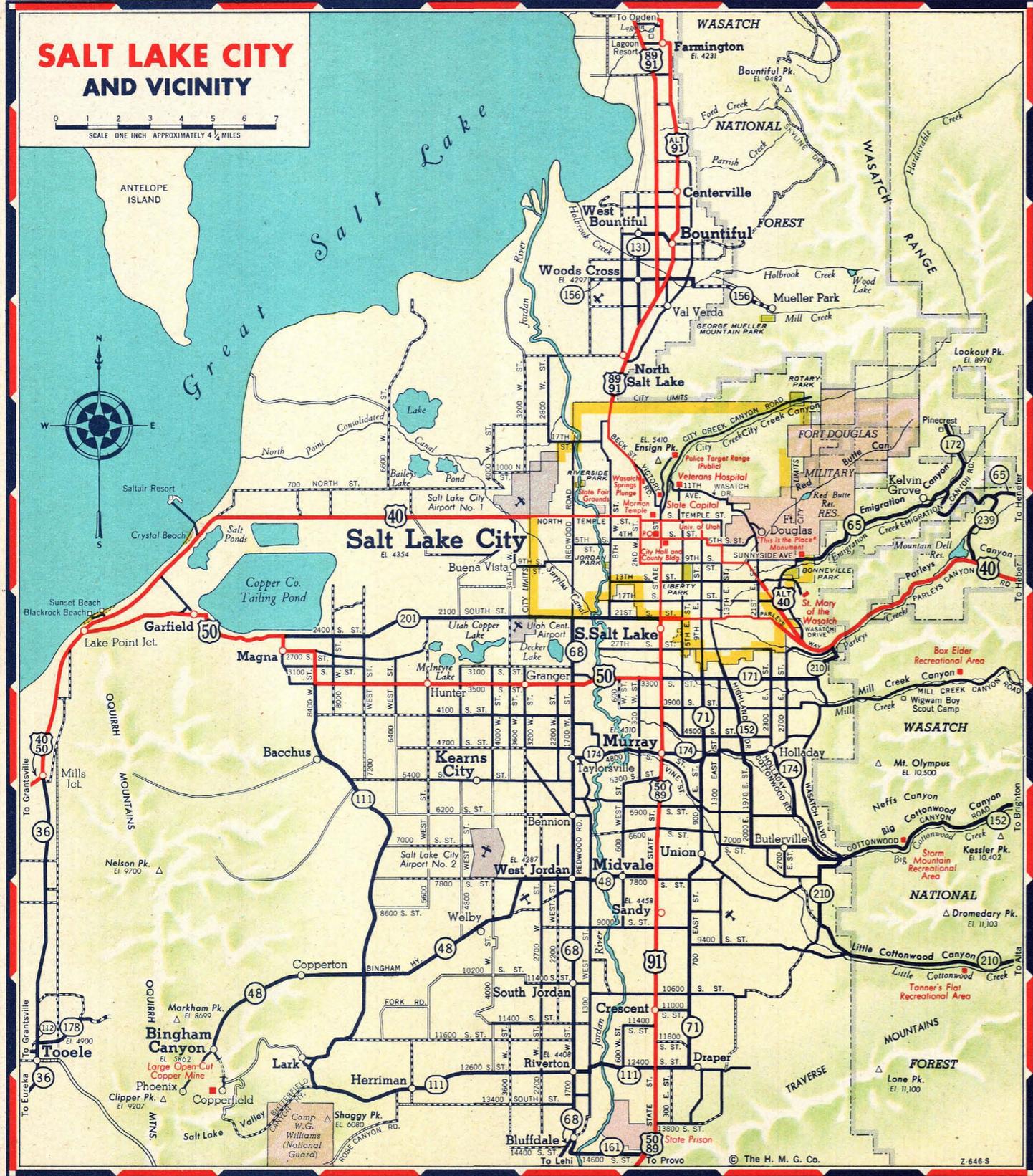
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| 14. <i>Location Plot of Wells Drilled In Utah</i> compiled in cooperation with C. A. Hauptman, 1952 (reprinted from <i>The Oil and Gas Possibilities of Utah</i> , 1949). | Out of print | 74. <i>Cache County Review</i> by M. VanCouverin, 1959. | Out of print |
| 15. <i>Oil and Gas Leasing in Utah</i> by N. G. Morgan, Sr., 1952 (reprinted from <i>The Oil and Gas Possibilities of Utah</i> , 1949). | Out of print | 75. <i>Upper Devonian Unconformity in Central Utah</i> by J. K. Rigby, 1959 (reprinted from <i>Geol. Soc. America Bull.</i> , v. 70, 1959). | Out of print |
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| 17. <i>Part II - Uinta Basin Area</i> 1952 (reprinted from <i>The Oil and Gas Possibilities of Utah</i> , 1949). | Out of print | 77. <i>Collecting Apatite Crystals at Durango, Mexico</i> by L. W. Vance, 1960. | Out of print |
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| | | 89. <i>Analysis of Pleistocene Core from Great Salt Lake, Utah</i> by A. J. Eardley and V. Gvosdetsky, 1960, 21 p., 2 figs., 1 pl., 4 tables (reprinted from <i>Geol. Soc. America Bull.</i> 71). | \$.50 |

62. *The Mineral Industry of Utah, 1956* by F. J. Kelly, W. H. Kerns and B. Parker, 1959. Out of print
63. *Abstracts of Papers at AAPG-SEPM Meetings, 1956.* Out of print
64. *Colored Geologic Map of Cache County, Utah* by J. S. Williams (available as UGMS map 12).
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66. *Paleozoic Stratigraphy and Oil Possibilities of the Kaiparowits Region in Utah* by E. B. Heylman, 1958, 30 p., 6 figs. (reprinted from Am. Assoc. Petroleum Geologists Bull. 42, No. 8, 1958). \$.50
- 67a. *Geology of the Timpic Quadrangle, Northern Stansbury Mountains, Tooele County, Utah.* Out of print
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73. *The Mineral Industry of Utah, 1957* by W. H. Kerns, F. J. Kelly and D. H. Mullen, 1959. Out of print
27. *Plate VI - Geologic Map of Utah-Colorado Salt Dome Region of Southwestern Colorado and Southeastern Utah 1952* (reprinted from The Oil and Gas Possibilities of Utah, 1949; available as UGMS map 5).
28. *Plate VII - Geologic Index Map of Utah, USGS Index 1952* (reprinted from The Oil and Gas Possibilities of Utah, 1949). Out of print
29. *Plate VIII - Geologic Index Map of Utah, non-USGS 1952* (reprinted from The Oil and Gas Possibilities of Utah, 1949). Out of print
30. *Utah Raw Materials* by A. L. Crawford, 1961 (reprinted from Chem. and Eng. News, Am. Chem. Soc., v. 27). Out of print
31. *Pioneer Work by the U. S. Geological Survey in Utah* by R. R. Woolley. Out of print
32. *Ozokerite - A Possible New Source* by A. L. Crawford, 1954 (reprinted from Utah Acad. Sci. Proc., v. 30, No. 74). Out of print
33. *Geology of the West Central Part of the Gunnison Plateau, Utah* by C. T. Hardy and H. D. Zeller, 1953 (reprinted from Geol. Soc. America Bull.). \$.75
- 33a. Plate I from Reprint 33. Out of print
34. *Lecture Notes, IAPG* by R. B. Downing and J. M. Terry, 1953 (reprinted from IAPG Symposium: Oil Well Logging Testing Completion, 1953). Out of print
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36. *Bournonite Crystals of Unusual Size from Park City, Utah* by F. R. VanHorn and W. F. Hunt (reprinted from Am. Jour. Sci., v. XL, 1915). Out of print
37. *Reconnaissance Geologic Map of Eastern Iron County, Utah* by H. E. Gregory (reprinted from UGMS Bull. 37, 1950; available as UGMS Map 1).

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| 38. <i>Geologic Map of Central Wasatch Mountains East of Salt Lake Valley, Utah</i> (reprinted from Utah Geol. Soc. Guidebook 8, 1952). | Out of print | 50. <i>The Riddle of Mountain Building</i> by A. J. Eardley, 1955, 31 p., 21 figs. (reprinted from Bull. 1, Univ. of Utah, v. 46, No. 11). | \$.25 |
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| 44. <i>List of Samples Available for Study at the University of Utah Oil Well Sample Library.</i> | Out of print | 56. <i>Tungsten Deposits of the Mineral Range, Beaver County, Utah</i> by A. L. Crawford and A. M. Buranek, 1957 (reprinted from UGMS Bull. 25, 1945). | Out of print |
| 45. <i>Geology in the Grade Schools</i> by D. Hager (reprinted from Science, v. 114, No. 2949). | Out of print | 57. <i>Guidebook to the Annual Brigham Young University Geology Field Trip to Bryce and Zion National Parks.</i> | Out of print |
| 46. <i>Geologic Map of Portions of the High Plateaus and Adjacent Canyon Lands</i> (reprinted from IAPG Guidebook, Fifth Annual Field Conference, 1954). | Out of print | 57a. <i>Geologic map of Utah</i> from Reprint 57. | Out of print |
| 47. <i>Survey Activities of the Utah Geological and Mineralogical Survey - Biennial Report to the Advisory Board for the Period from Jan. 1, 1952 to June 30, 1954</i> by A. L. Crawford, 1954. | Out of print | 58. <i>Index to Unpublished Geologic Thesis Mapping in Utah</i> by L. F. Hintze, 1958 (available as UGMS map 7). | |
| 48. <i>Perfecting a Claim</i> by L. R. Anderson (reprinted from the Uranium Magazine, Nov. 1954). | Out of print | 59. <i>Hydrology of Lake Bonneville and Sediments of Soils of its Basin</i> by A. J. Eardley, V. Gvosdetsky and R. E. Marsell, 1957, 60 p., 24 figs., 4 pls., 16 tables (reprinted from Geol. Soc. America Bull. 68). | \$.50 |
| 49. <i>Geology of the Pine Valley Mountains, Utah</i> by E. F. Cook, 1954 (reprinted from Ph.D. thesis, Univ. of Washington, 1954). | Out of print | 60. <i>A Catalogue of Utah Minerals and Localities</i> by M. Bixby, 1959, 34 p. (reprinted from pamphlet of R. H. Office and Co., and Maynard Bixby). | \$.50 |
| | | 61. <i>The Mineral Industry of Utah, 1955</i> by F. J. Kelly, W. H. Kerns, B. Parker and A. L. Ransome, 1959 (reprinted from Minerals Yearbook of the United States, 1955). | Out of print |

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SCALE ONE INCH APPROXIMATELY 4 1/4 MILES



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Succeeding pages cover in greater detail the different sections noted on the simplified map. These pages also suggest, in picture form, many points of interest to assist you in planning your motor tours.

Handy booklet maps are available at Standard Stations and independent Chevron Gas Stations in these states:

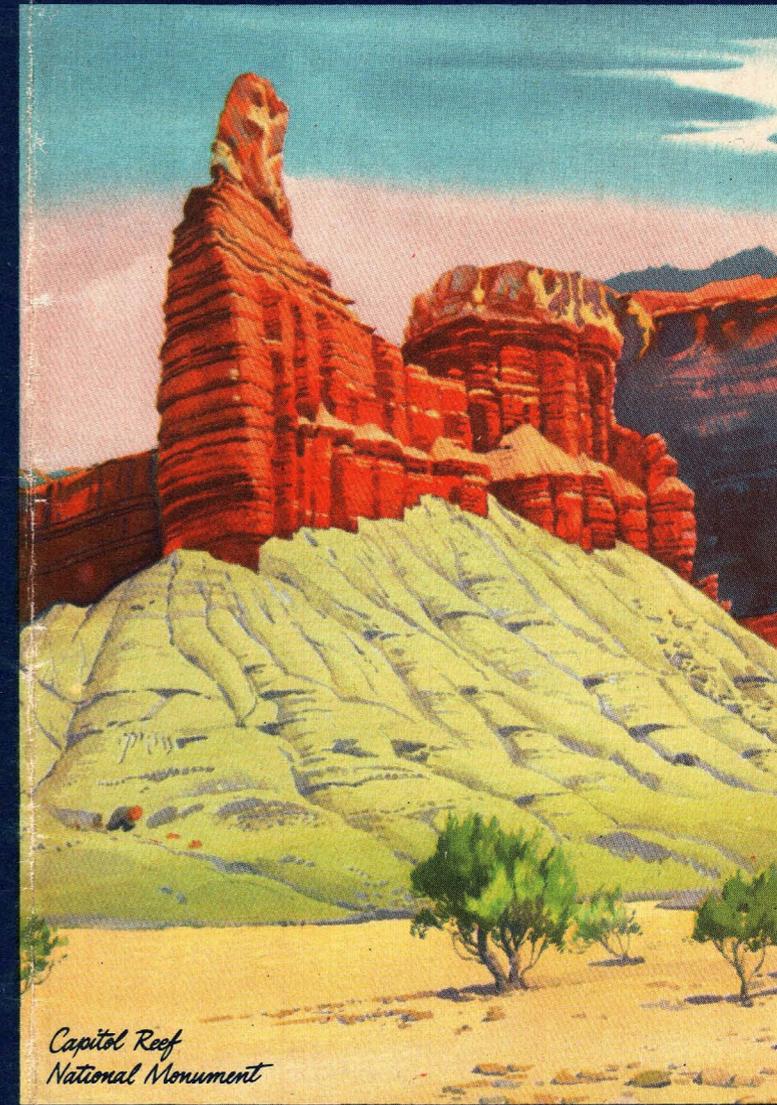
**CALIFORNIA • OREGON
WASHINGTON • ARIZONA
UTAH • IDAHO • NEVADA**

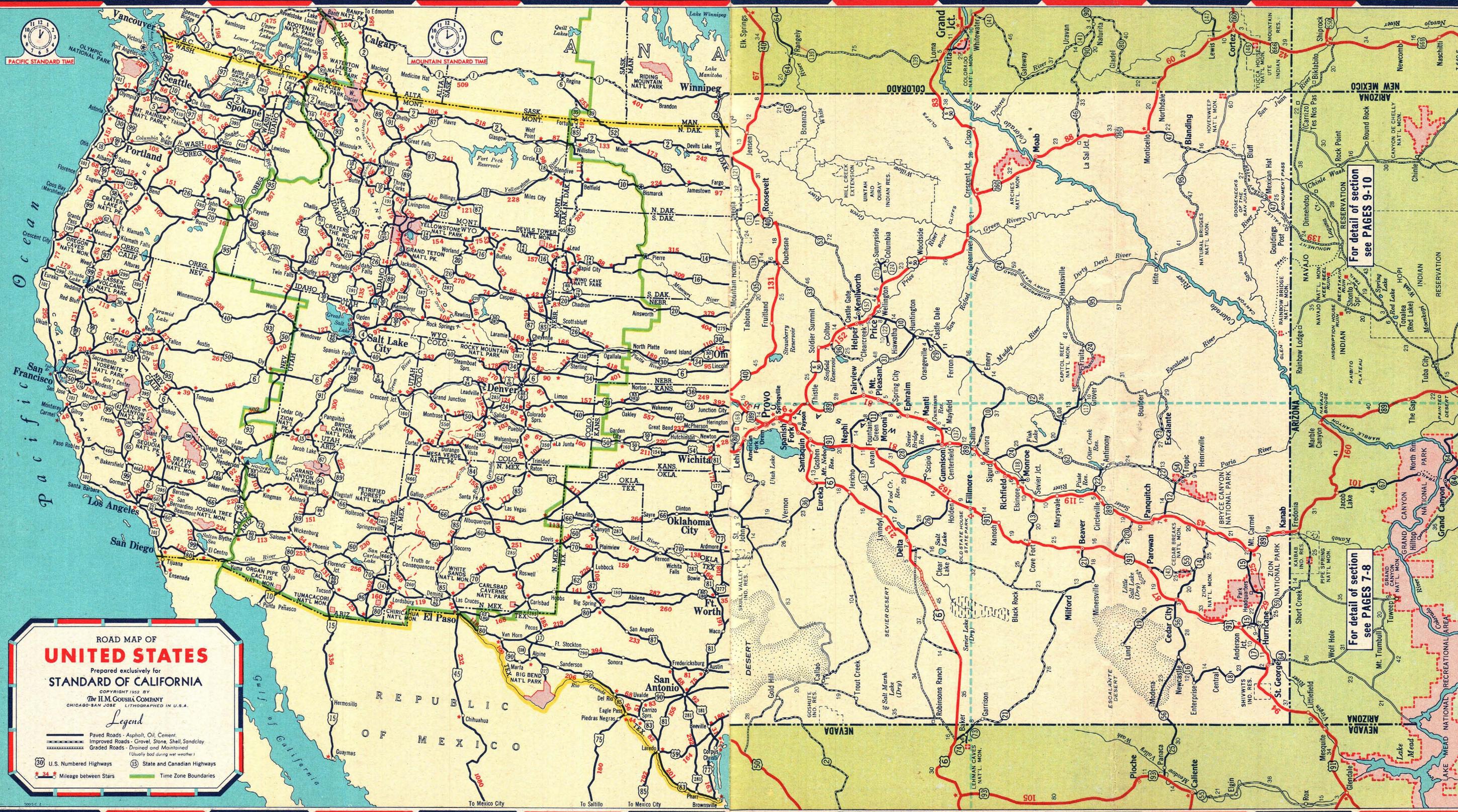
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UTAH

POINTS OF INTEREST AND TOURING MAP





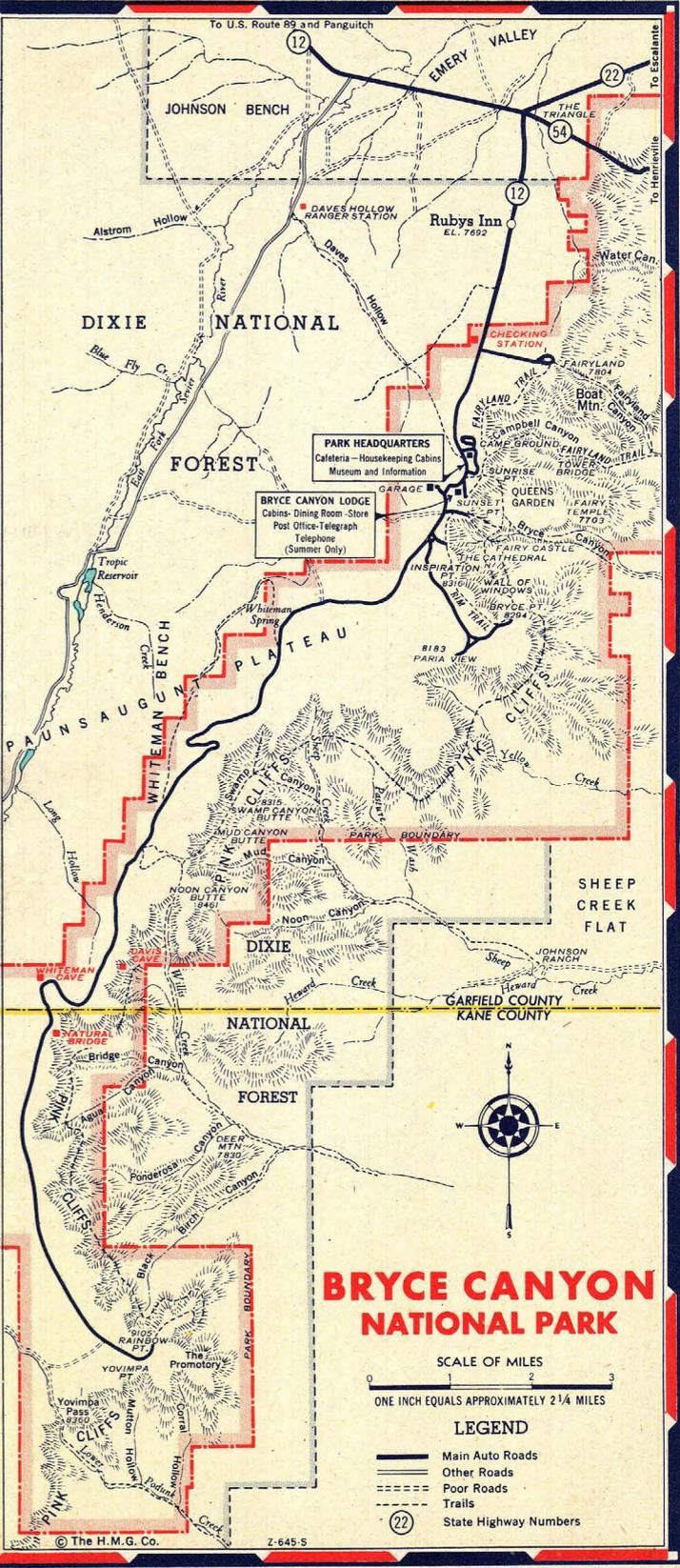
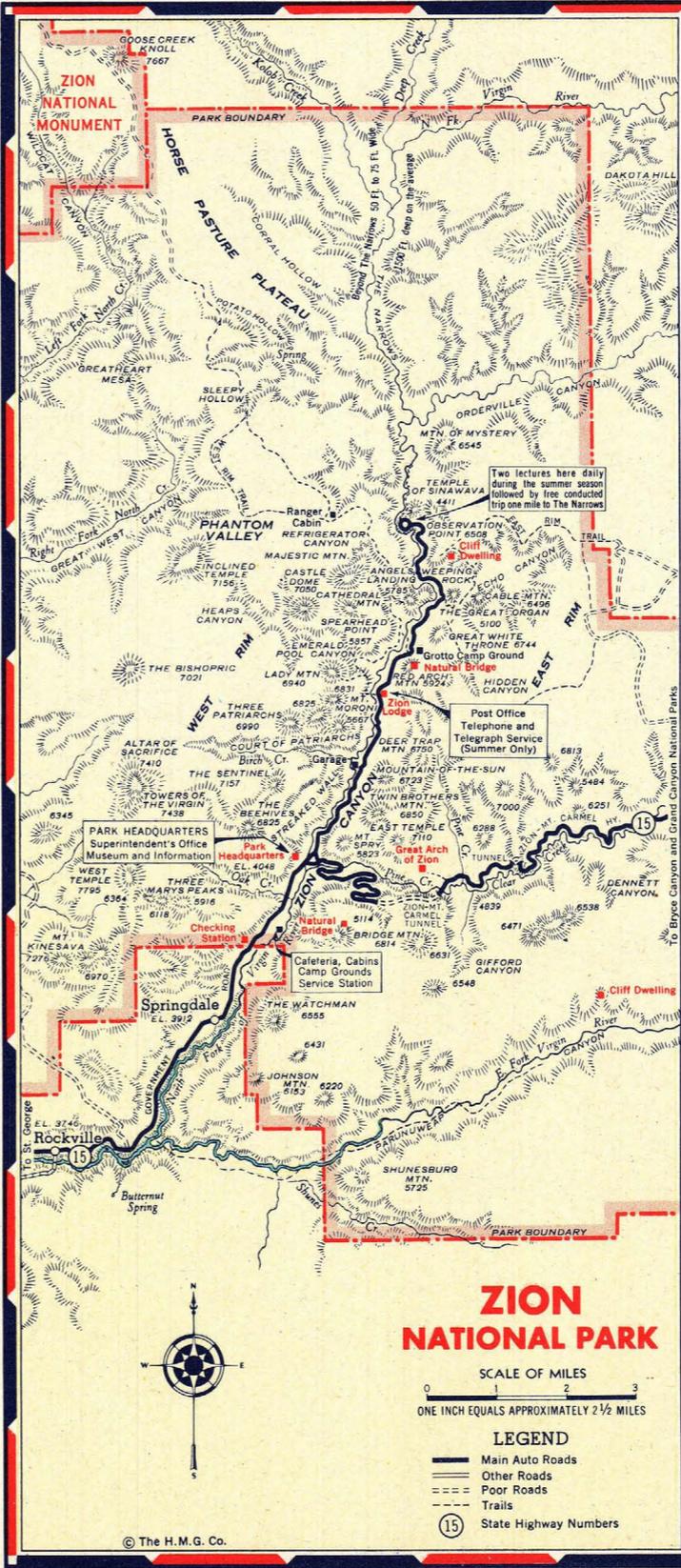
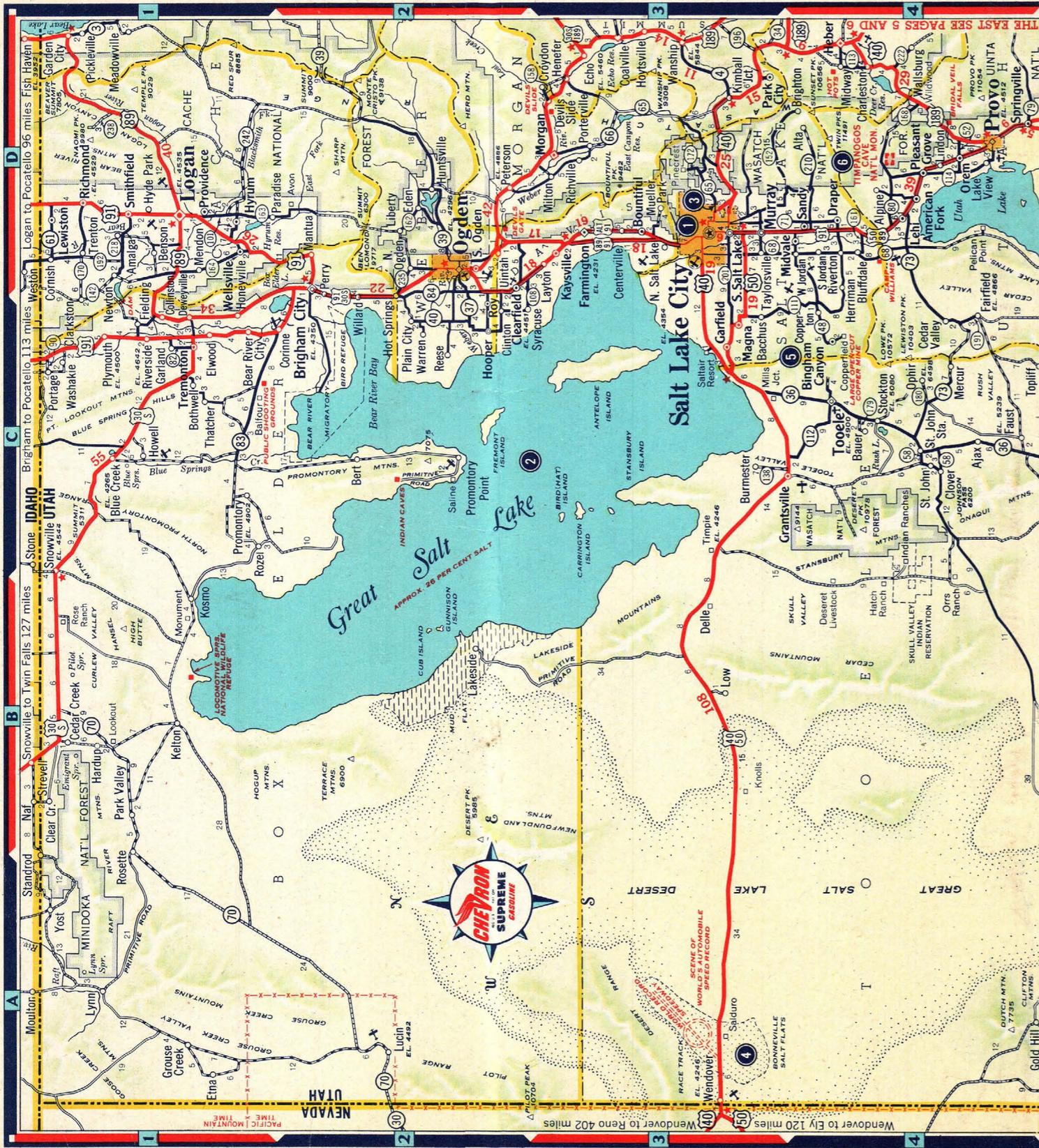
ROAD MAP OF UNITED STATES
 Prepared exclusively for
STANDARD OF CALIFORNIA
 COPYRIGHT 1952 BY
 The H.M. GOUSHI COMPANY
 CHICAGO-SAN JOSE LITHOGRAPHED IN U.S.A.

Legend

- Paved Roads - Asphalt, Oil, Cement
- Improved Roads - Gravel, Stone, Shell, Sandclay
- Graded Roads - Drained and Maintained (Usually bad during wet weather)
- 15 U.S. Numbered Highways
- 15 State and Canadian Highways
- ★ Mileage between Stars
- Time Zone Boundaries

For detail of section
see PAGES 9-10

For detail of section
see PAGES 7-8



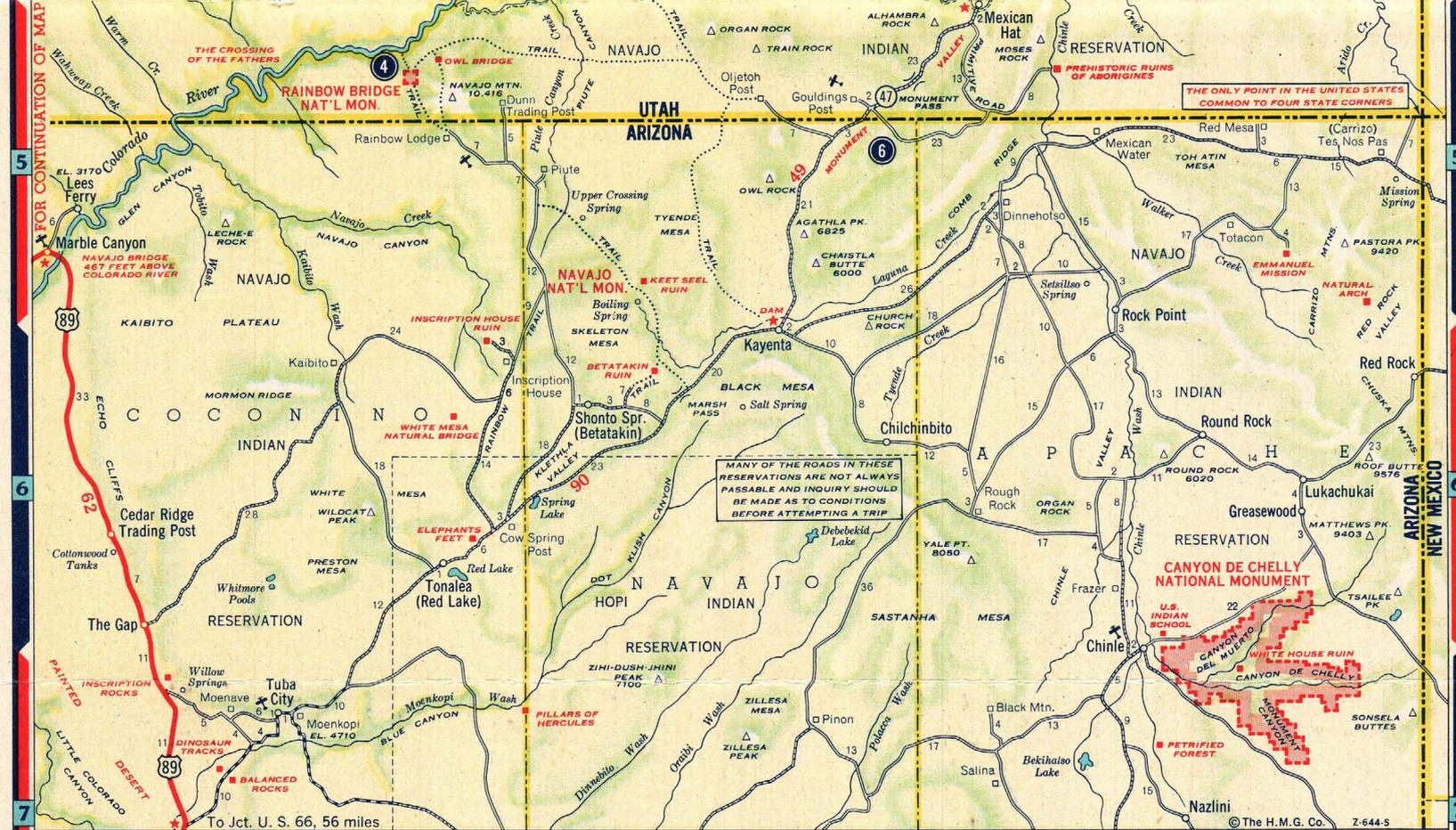
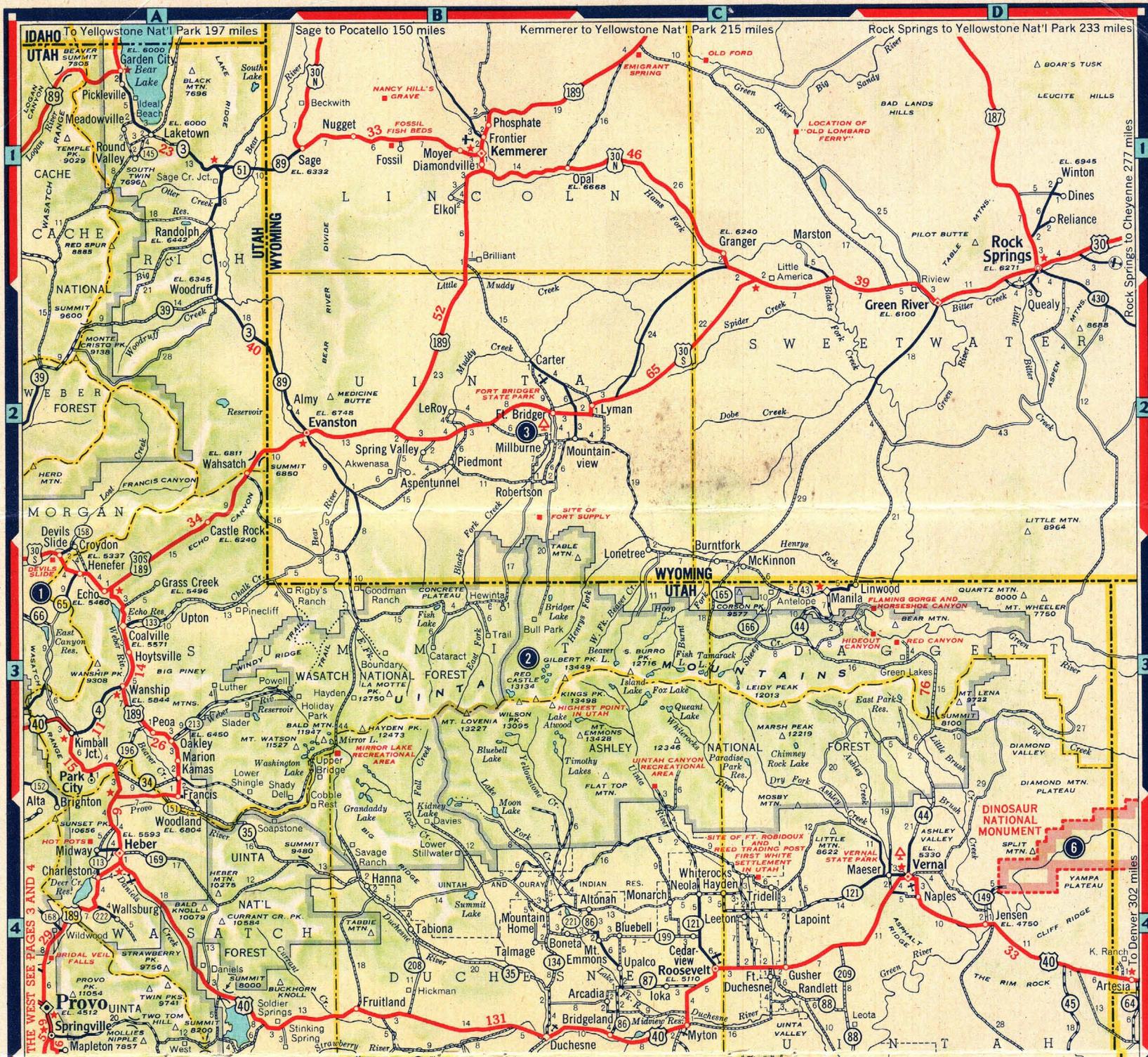
UTAH MILEAGE CHART

	Beaver	Bingham Canyon	Blanding	Brigham	Bryce Canyon Nat'l Pk.	Cedar Breaks Nat'l Mon.	Cedar City	Delta	Escalante	Evanston, Wyo.	Fillmore	Fruita	Garden City	Grand Canyon Nat'l Pk., N. Rim	Gunnison	Heber	Helper	Kanab	Logan	Manila	Manti	Mexican Hat	Moab	Monticello	Natural Bridges Nat'l Mon.	Nephi	Ogden	Provo	Roosevelt	St. George	Salina	Salt Lake City	Santaquin	Timpanogos Cave Nat'l Mon.	Tooele	Vernal	Wendover	Zion Nat'l Pk.	
Beaver	•	218	391	271	96	52	54	97	108	285	60	144	337	198	98	203	200	128	297	385	113	408	311	369	438	124	249	169	279	111	84	214	144	192	204	328	309	119	
Brigham	271	87	379	•	320	323	325	200	332	98	211	283	66	453	189	105	174	379	26	310	181	433	299	357	426	147	22	102	204	382	203	57	127	109	91	234	183	877	
Bryce Canyon Nat'l Pk.	96	267	414	320	•	70	82	174	42	334	137	130	386	162	131	252	233	80	346	418	146	360	344	402	461	173	298	218	312	130	117	263	193	241	271	342	373	366	
Cedar City	54	272	422	325	82	28	•	151	120	339	114	208	391	170	150	257	254	88	351	437	165	368	363	421	469	178	303	223	331	57	138	268	198	246	261	382	363	65	
Delta	97	147	352	200	174	149	151	•	186	214	37	147	266	294	83	132	185	225	226	366	98	430	296	354	423	53	178	98	260	208	69	143	73	121	110	290	212	229	
Escalante	108	279	443	332	42	108	120	186	•	346	149	88	398	200	143	264	245	118	358	430	158	398	363	421	490	185	310	230	324	168	129	275	205	253	283	354	385	124	
Grand Canyon Nat'l Pk., N. Rim	198	400	340	453	162	158	170	294	200	467	258	288	519	•	264	385	366	42	479	551	279	286	420	362	387	306	431	351	445	170	250	396	326	374	417	475	519	126	
Gunnison	98	136	327	189	131	148	150	83	143	203	66	94	255	264	•	121	122	182	215	299	15	381	247	305	374	42	167	87	193	207	14	132	62	110	140	223	242	186	
Heber	200	121	205	174	233	252	254	185	245	188	168	196	240	366	122	106	•	284	200	185	107	259	125	183	252	98	152	72	79	311	116	117	78	95	156	109	258	290	
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Kanab	297	113	405	26	346	349	351	226	358	103	237	313	40	479	215	131	200	405	•	337	207	459	325	383	452	173	48	128	231	408	229	83	153	135	117	261	209	401	
Logan	309	246	80	299	344	363	363	296	363	313	279	309	365	420	247	231	125	395	325	310	232	134	•	58	127	223	277	197	204	422	227	242	203	220	281	234	383	401	
Manila	369	304	22	357	402	432	421	354	421	371	337	367	432	362	305	289	183	356	383	368	290	76	58	•	69	281	335	255	262	444	285	300	261	278	339	292	441	400	
Manti	124	94	303	147	173	176	178	53	185	161	64	138	213	306	42	79	98	224	173	283	42	357	223	281	350	•	125	45	177	235	56	90	20	68	98	207	200	230	
Mexican Hat	249	65	357	22	298	301	303	178	310	76	189	261	88	431	167	83	152	357	48	289	159	411	277	335	404	125	•	80	183	360	181	35	105	77	69	213	161	353	
Moab	169	49	277	102	218	221	223	98	230	116	109	181	168	351	87	34	72	274	128	238	79	331	197	255	324	45	80	•	132	280	101	45	25	23	73	162	165	273	
Monticello	111	329	422	320	85	57	208	168	396	171	256	448	170	207	314	311	88	408	496	222	368	422	444	469	235	360	280	390	•	195	325	255	303	318	436	420	44		
Natural Bridges Nat'l Mon.	84	150	307	203	117	136	138	69	129	217	52	82	269	250	14	135	116	168	229	301	29	361	227	285	354	56	181	101	195	195	•	146	76	124	154	225	256	174	
Nephi	214	30	322	97	263	266	268	143	275	84	154	226	123	396	132	48	117	322	83	254	124	376	242	300	369	90	35	48	148	325	146	•	70	42	69	178	126	320	
Ogden	204	58	361	51	271	259	261	110	283	115	147	236	157	147	140	82	156	335	117	288	155	415	281	339	408	98	69	73	182	318	154	34	78	70	•	212	102	328	
Provo	328	205	314	234	342	361	382	290	354	212	268	305	275	475	223	130	109	393	261	76	208	368	234	292	361	207	213	162	30	436	225	178	179	159	212	•	301	399	
Roosevelt	309	150	463	183	373	361	363	212	385	207	249	338	249	519	242	171	258	437	209	377	244	517	383	441	510	200	161	165	271	420	256	126	180	162	102	301	•	428	
St. George	119	322	378	377	86	82	65	229	124	389	179	212	441	126	186	307	290	44	401	475	201	324	400	400	425	230	353	273	369	44	174	320	250	296	328	399	428	•	
Salina																																							
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Zion Nat'l Pk.																																							

The figure given in the square where the columns intersect is the shortest distance between the two points, computed over the most direct U. S. Numbered, State or Main traveled road. Mileage on ferry lines not included.

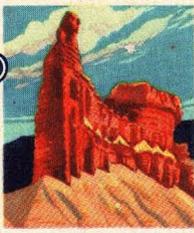
UNITED STATES MILEAGE CHART

	Atlanta, Ga.	Boston, Mass.	Chicago, Ill.	Cleveland, Ohio	Dallas, Texas	Denver, Colo.	Detroit, Mich.	El Paso, Texas	Helena, Mont.	Houston, Texas	Kansas City, Mo.	Los Angeles, Calif.	Memphis, Tenn.	Miami, Fla.	Minneapolis-St. Paul, Minn.	Montreal, Que.	New Orleans, La.	New York, N. Y.	Oklahoma City, Okla.	Omaha, Nebr.	Phoenix, Ariz.	Pittsburgh, Pa.	Portland, Ore.	Reno, Nev.	St. Louis, Mo.	Salt Lake City, Utah	San Antonio, Texas	San Diego, Calif.	San Francisco, Calif.	Santa Fe, N. Mex.	Seattle, Wash.	Spokane, Wash.	Tampa, Fla.	Toronto, Ont.	Washington, D. C.	Winnipeg, Man.	Yellowstone Nat'l Park, Wyo.
Bakersfield, Calif.	2334	3192	2223	2537	1501	1261	2414	925	1258	1696	1669	1113	1894	2869	2060	2983	2002	2922	1400	1710	506	2546	890	412	1946	747	1500	240	292	907	1074	1164	2620	2644	2722	2210	1093
Boise, Idaho	2354	2776	1807	2121	1691	881	2020	1583	560	1934	1520	894	2089	3059	1644	2589	2192	2604	1611	1285	1098	2215	459	433	1778	383	1856	995	662	1009	543	396	2810	2250	2454	1537	399
Crater Lake Nat'l Park, Ore.	2776	3198	2229	2543	2113	1303	2442	1694	846	2356	1942	766	2480	3481	2066	3011	2614	3026	1996	1707	1159	2637	264	349	2200	805	2262	893	440	1433	454	521	3232	2672	2879	1959	844
Fresno, Calif.	2441	3229	2330	2644	1608	1368	2521	1032	1217	1803	1776	220	2001	2976	2167	3090	2109	3029	1507	1817	613	2653	783	305	2053	853	1607	347	185	1014	973	1057	2727	2751	2879	2160	1048
Glacier Nat'l Park, Mont.	2313	2577	1572	1922	1807	1897	1837	1807	189	2050	1500	1373	1976	2977	1162	2180																					



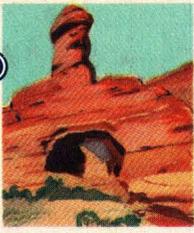
1 Capitol Reef National Monument

Depicted here is Chimney Rock, one of many giant formations in this colorful region. The national monument embraces a part of the vast area known as the Wayne Wonderland



2 Arches National Monument

Sculptured from red sandstone, this region is remarkable for a show of Nature's most bizarre architecture. The multitude of forms include huge monoliths and several great arches



3 Natural Bridges National Monument

The 200-foot Owanchemo Natural Bridge, illustrated here, is but one of three gigantic spans that are grouped in a relatively small area and are among the largest ever discovered



4 Rainbow Bridge National Monument

The largest known natural bridge in the world, this magnificent arch stands 309 feet above the canyon floor. Auto road approaches to within 14 miles; pack trail leads to bridge



5 Goosenecks of the San Juan River

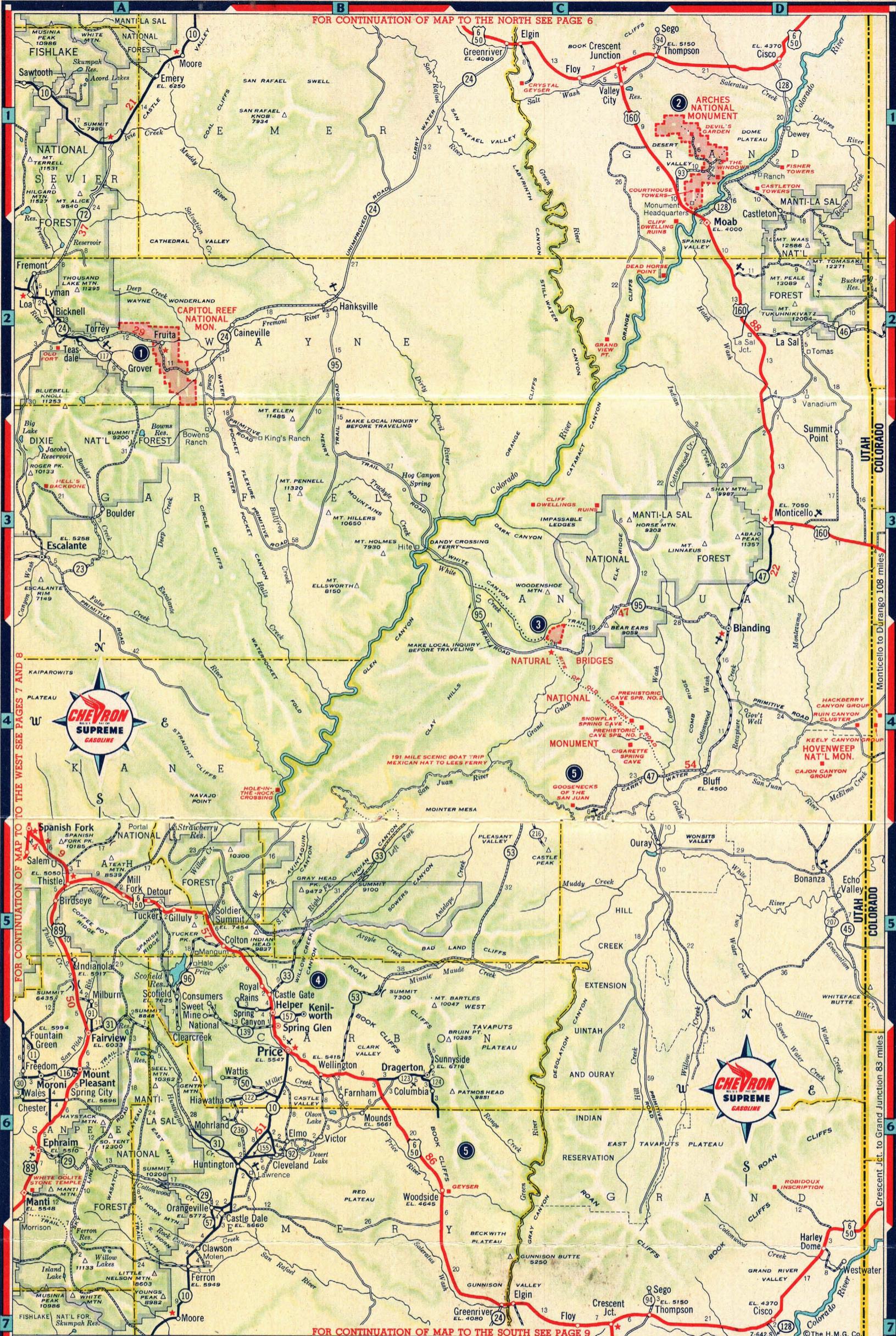
Aptly named is this twisting canyon carved into a desert plateau by the meandering San Juan River, on its way to join the Colorado. Canyon walls are a thousand feet in height



6 Monument Valley

Giant columns soaring hundreds of feet into the sky are scattered over a wide area which stretches across the Arizona-Utah line. One of the most awesome of the West's wonders





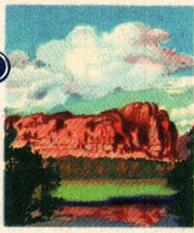
1 Devils Slide

In Weber Canyon, east of Ogden, one of Utah's strangest rock phenomena can be seen. Limestone ridges run down a hillside, 20 feet apart and parallel along several hundred feet



2 Uinta Mountains

The vast Uinta mountain range offers a great variety of scenery, ranging from colorful rock formations, as here shown, to such lofty summits as Kings Peak, 13,498 feet, the state's highest



3 Fort Bridger

A trading post on the Oregon Trail, established in 1843 by Jim Bridger, famed western scout and discoverer of Great Salt Lake. The pony express station is a relic that is still preserved



4 Castle Gate

Like medieval towers at the gate of a walled city, these rugged cliffs border U.S. Highway 50 as it passes through Price River Canyon on its way eastward from Wasatch Plateau



5 Book Cliffs

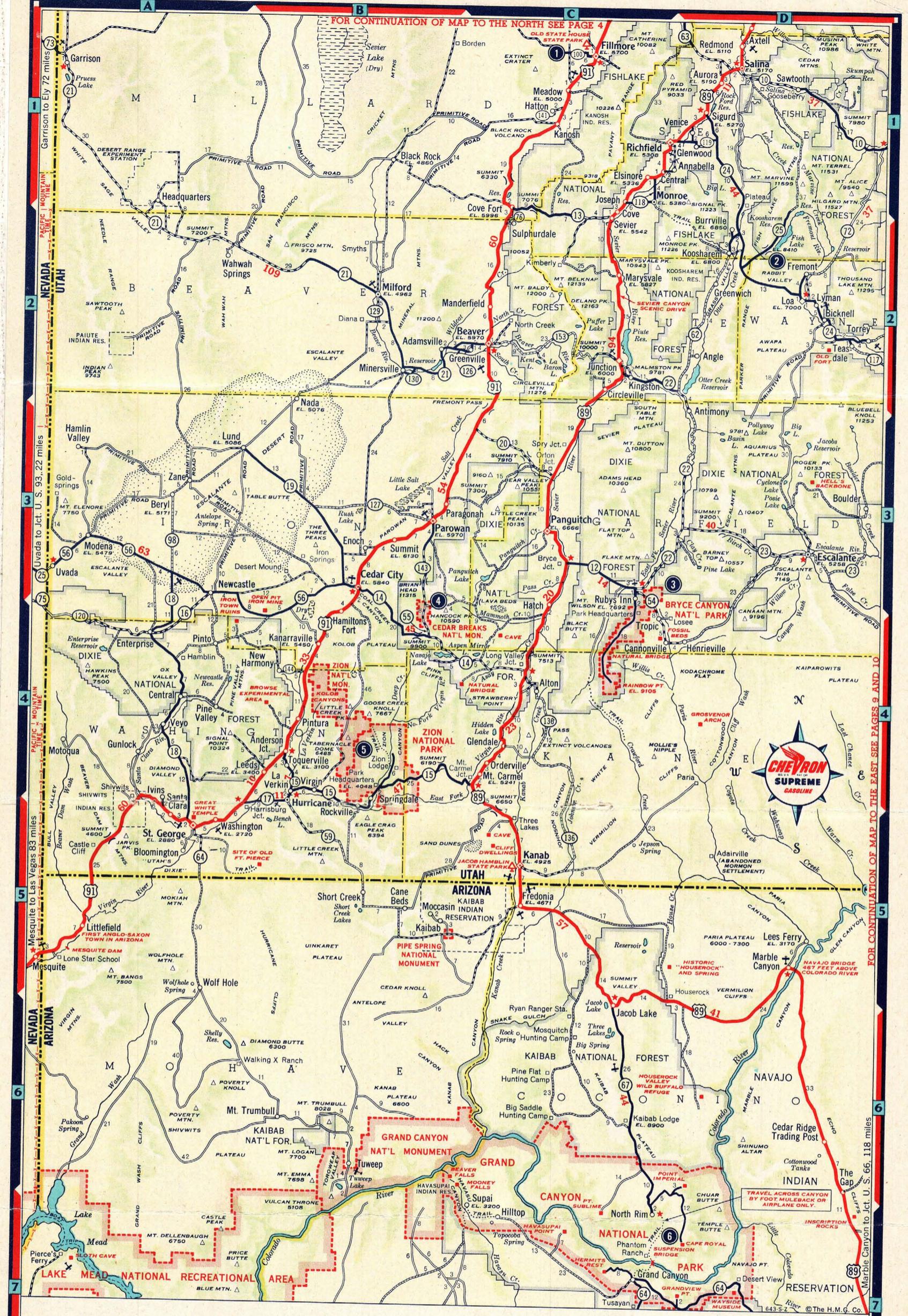
These famous cliffs form the 150-mile southern face of a great plateau in eastern Utah. Gunnison Butte, shown here, is where the Green River cuts through the chain of bluffs



6 Dinosaur National Monument

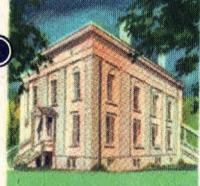
Remarkable deposits from which have come over 20 complete skeletons of prehistoric reptiles. Largest of these, when mounted, was a dinosaur 20 ft. high and almost 100 ft. long





1 Old State House State Park, Fillmore

Originally designed to be the south wing for the capitol of Utah, this structure was used by legislatures of 1855-56. It is now a museum for a colorful collection of pioneer relics



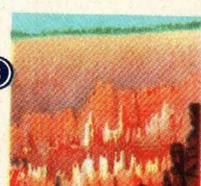
2 Fish Lake

Nestled between the slopes of high mountains in central Utah, at an elevation of 8600 feet, Fish Lake is among the West's highest, yet most accessible, fine fishing spots



3 Bryce Canyon National Park

A series of natural amphitheatres caused by erosion. These contain countless gorgeously colored spires and fantastically sculptured forms resembling castles, animals, chessmen



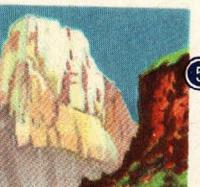
4 Cedar Breaks National Monument

A stupendous chasm over half-a-mile deep, at an altitude of 10,500 feet. From the rim there is a superb view of the interior which contains many beautifully colored rocks and cliffs



5 Zion National Park

The "Great White Throne" shown here is one of the tremendous monolithic creations of Nature for which this canyon is noted. Many colors from deep red to white, band the cliffs



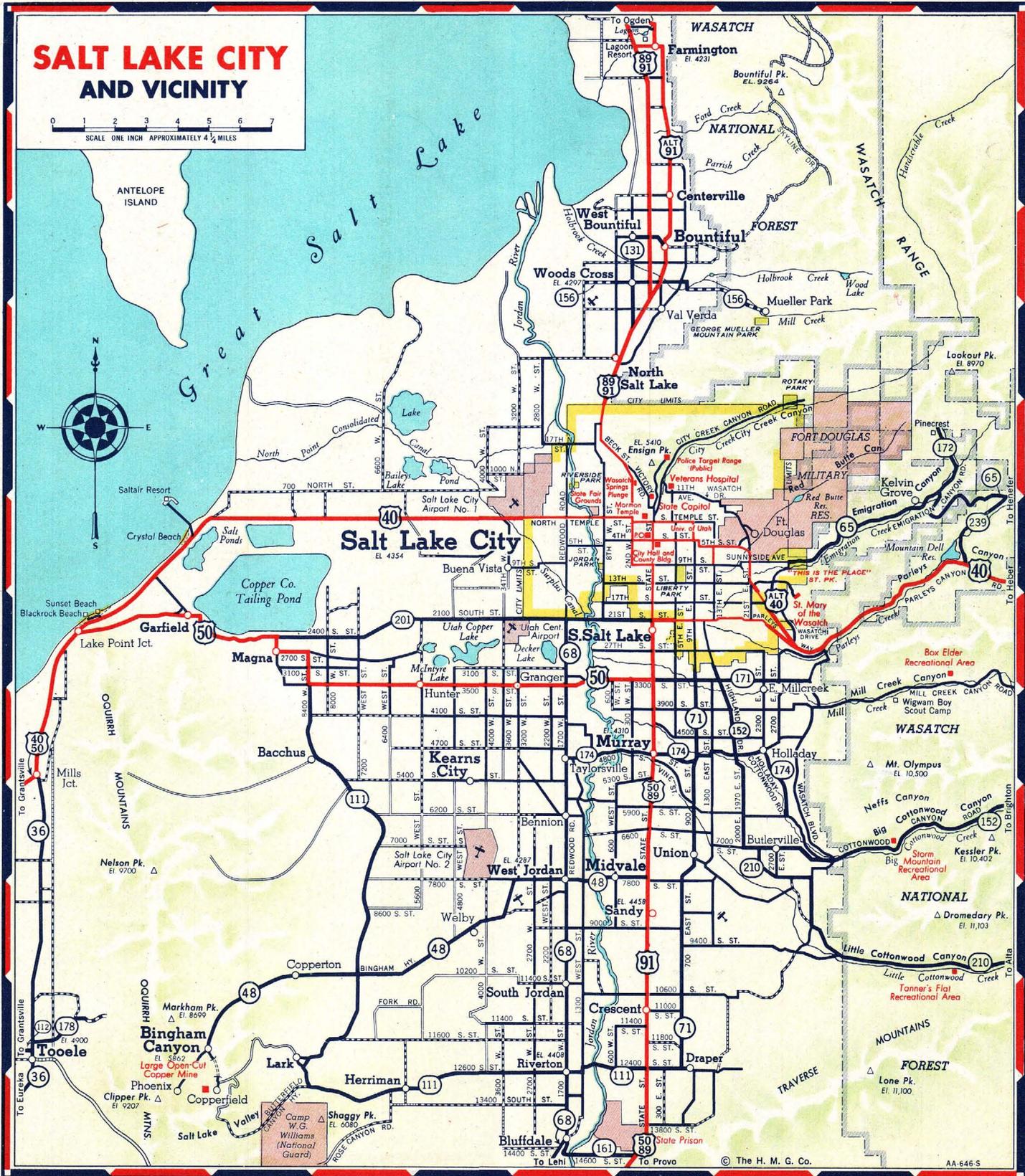
6 Grand Canyon National Park, Arizona

Often referred to as "Earth's Most Sublime Spectacle," Grand Canyon of Arizona has a glory no words can describe. It is 4 to 18 miles wide, 5000 feet deep, over 200 miles long



SALT LAKE CITY AND VICINITY

0 1 2 3 4 5 6 7
SCALE ONE INCH APPROXIMATELY 4 1/4 MILES



FOR YOUR CONVENIENCE

THIS MAP HAS BEEN DESIGNED IN HANDY BOOKLET FORM

In the front of the booklet is a simplified map of the whole state:

This map shows all main highways, National Parks and Monuments, Cities and principal towns, with route numbers and mileage figures. Detail has been minimized to permit quick and easy use while travelling. For most trips you may not need more information.

If more detail is required for any portion of the state:

Succeeding pages cover in greater detail the different sections noted on the simplified map. These pages also suggest, in picture form, many points of interest to assist you in planning your motor tours.

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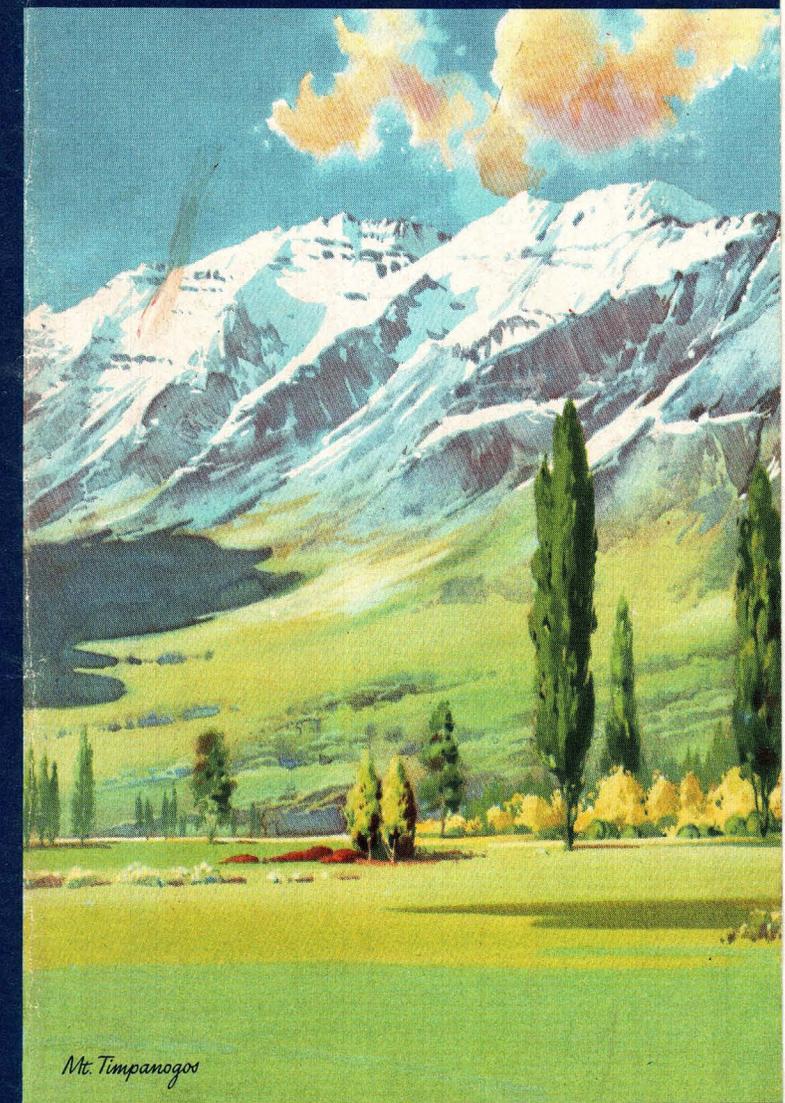
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- WASHINGTON • ARIZONA
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UTAH

POINTS OF INTEREST AND TOURING MAP



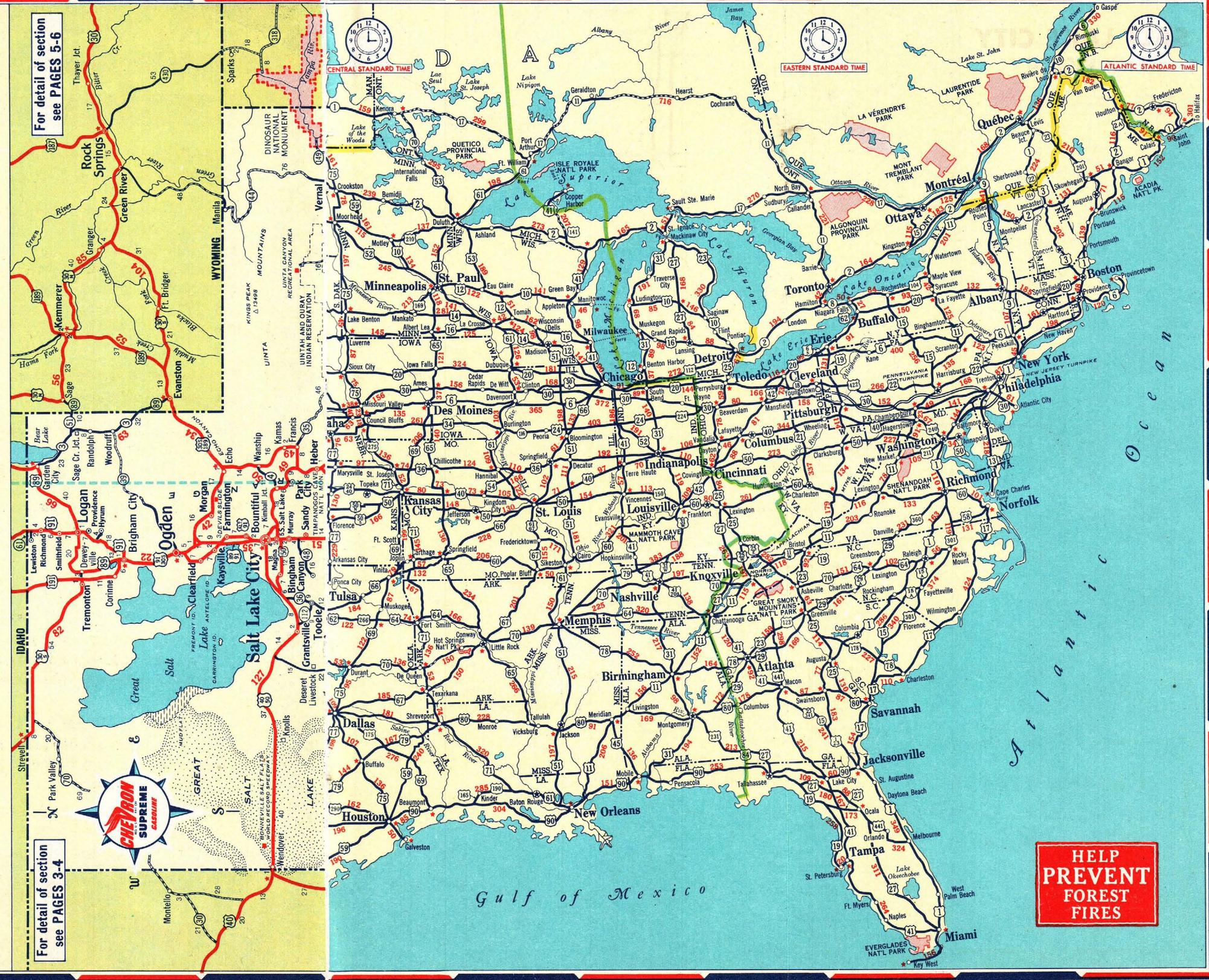
INDEX OF CITIES AND TOWNS

Table with 4 columns: Name, Page Key, Name, Page Key, Name, Page Key, Name, Page Key. Lists cities and towns across various states with their corresponding page keys.

EXPLANATION OF SYMBOLS USED ON MAPS IN THIS BOOKLET. U.S. NUMBERED HIGHWAYS ARE SHOWN IN RED. Includes symbols for road surfacing, highways, state highways, and map symbols like airports and points of interest.

SIMPLIFIED TOURING MAP OF UTAH

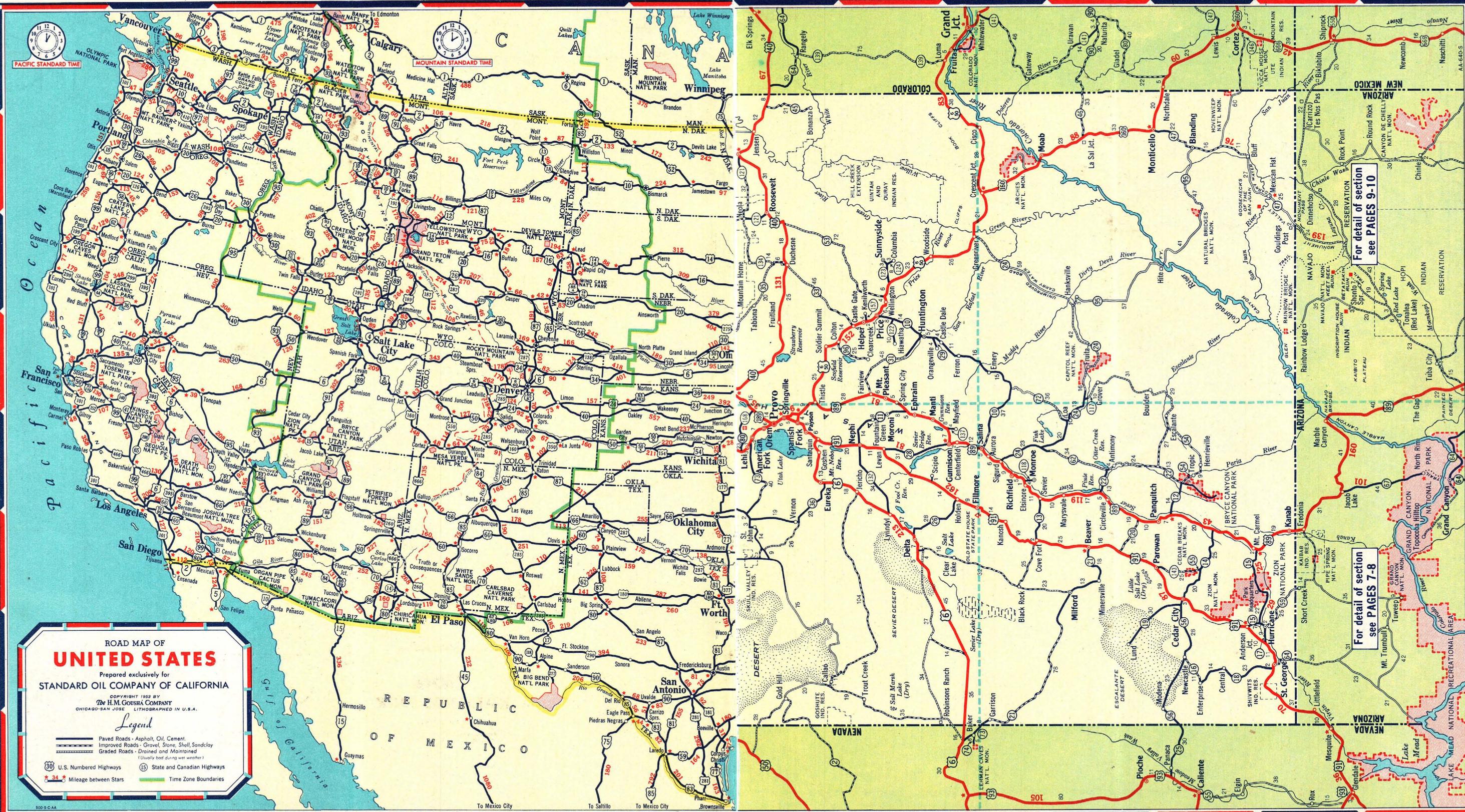
To find the large detail map for any section of Utah shown on this touring map, turn to pages given in the boxes below.



For detail of section see PAGES 3-4

For detail of section see PAGES 5-6

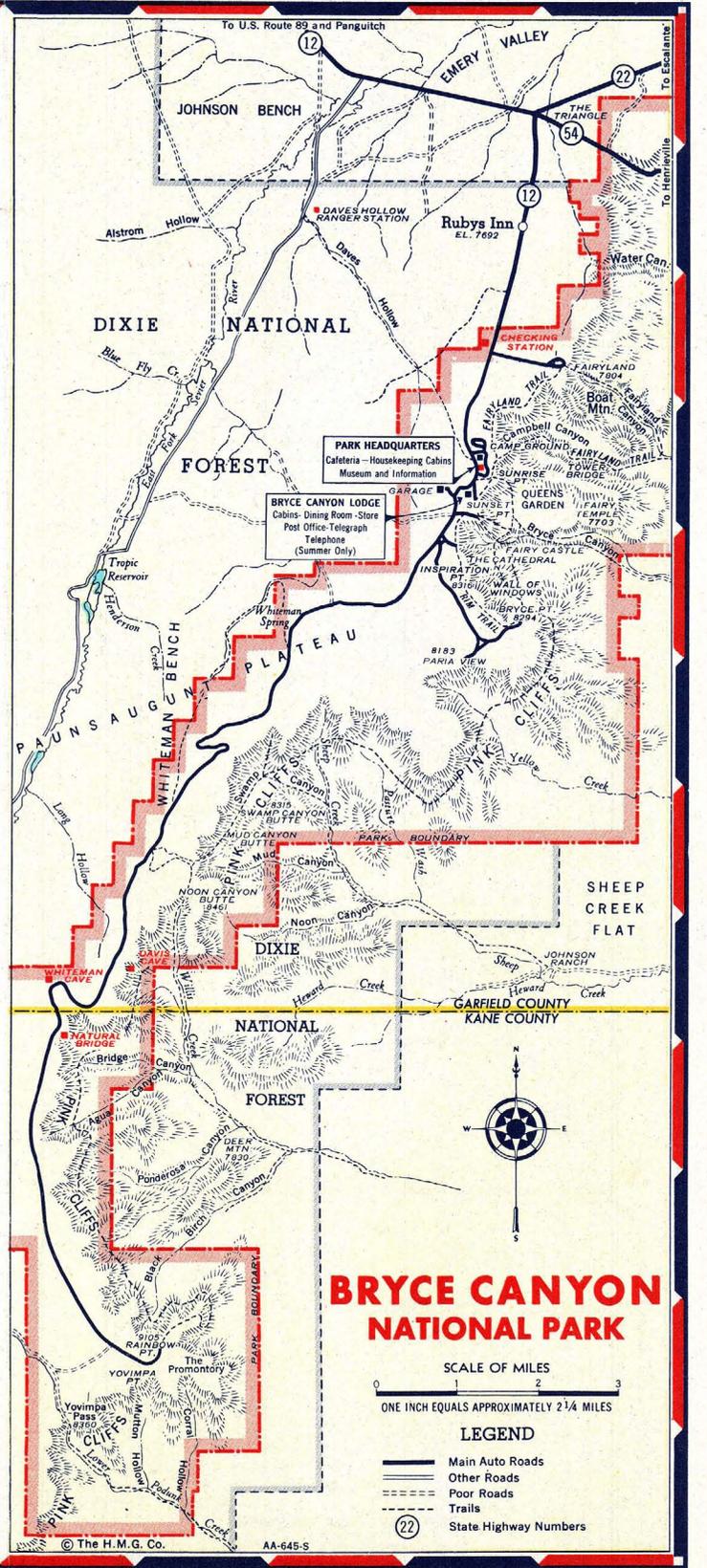
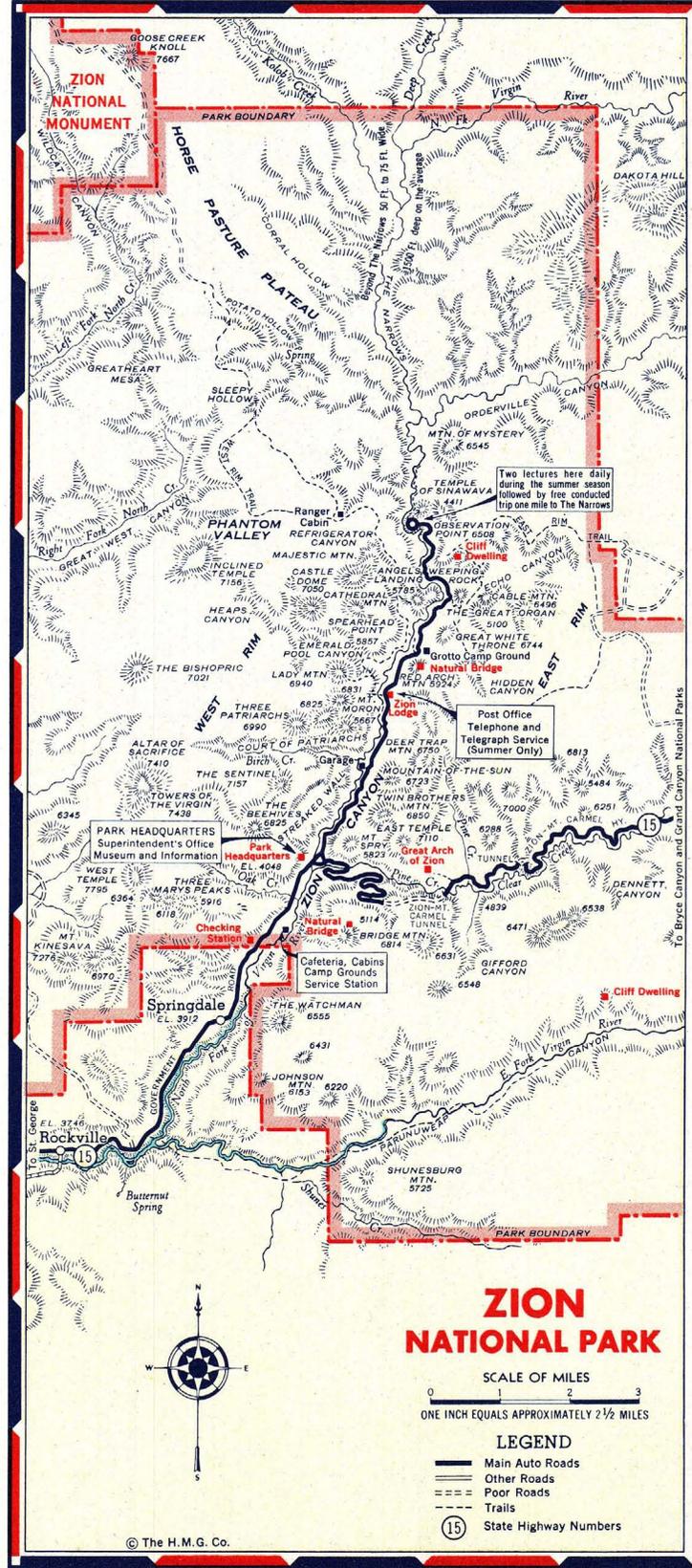
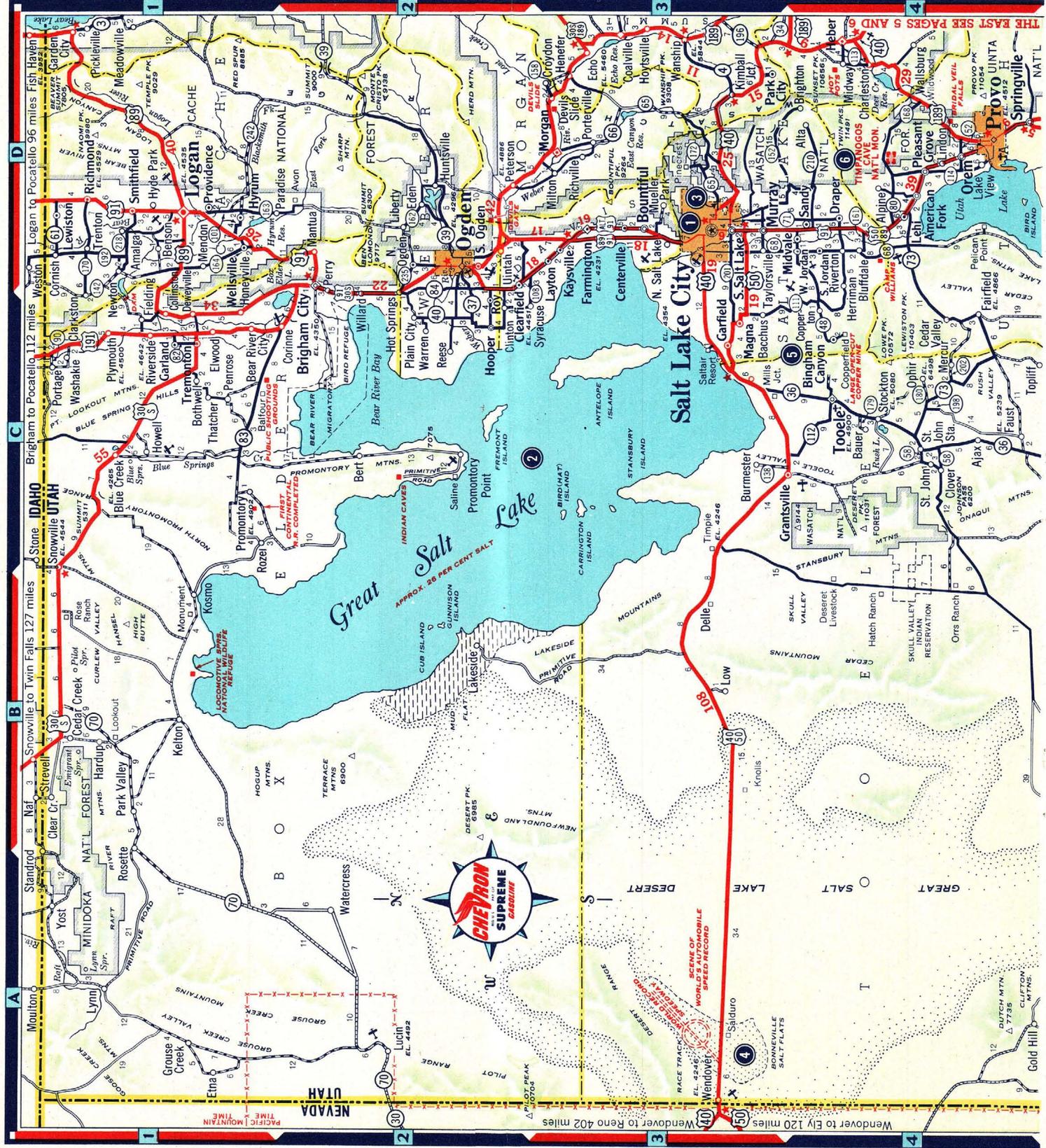
HELP PREVENT FOREST FIRES



ROAD MAP OF UNITED STATES
 Prepared exclusively for
STANDARD OIL COMPANY OF CALIFORNIA
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 CHICAGO-SAN JOSE LITHOGRAPHED IN U.S.A.

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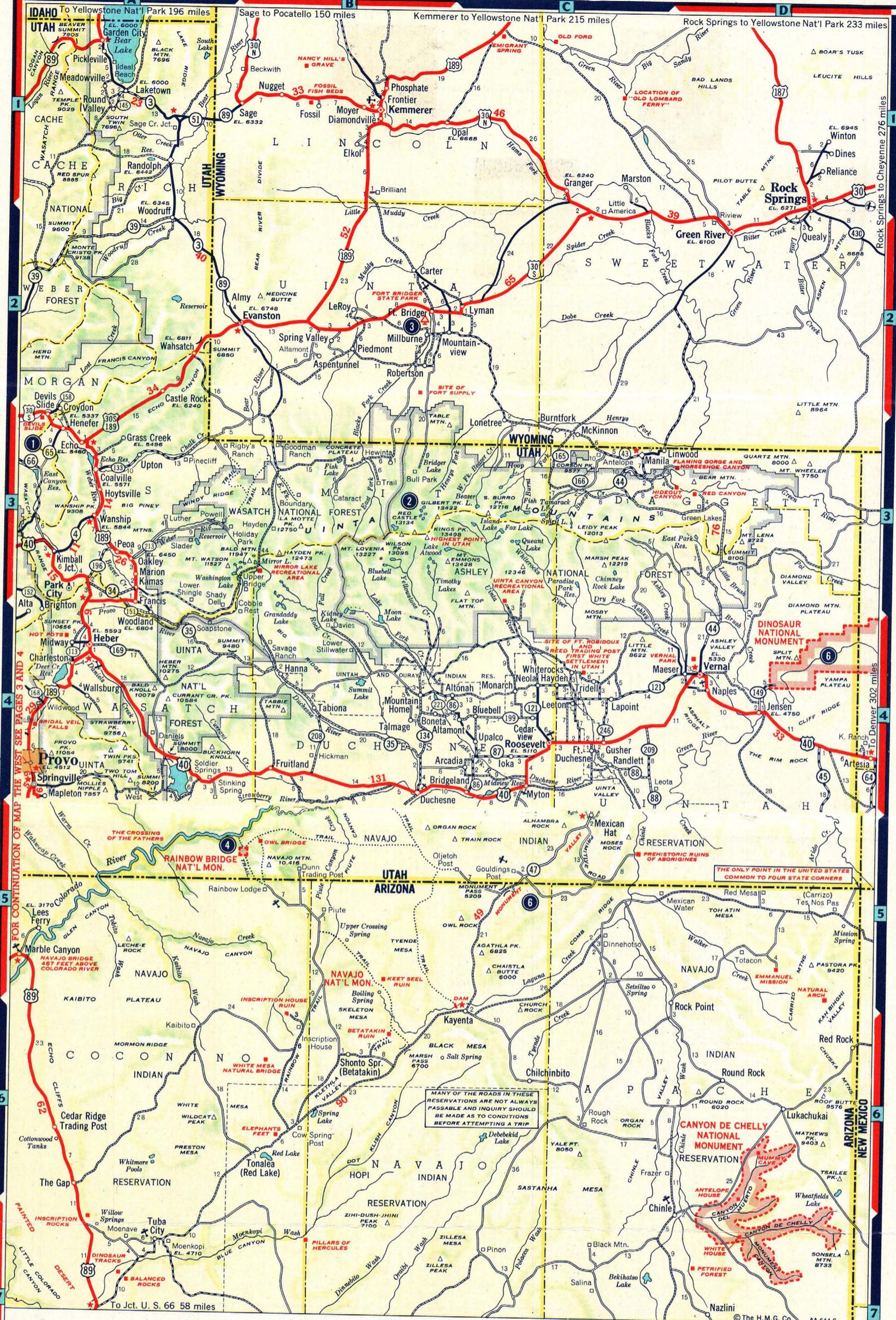
UTAH MILEAGE CHART

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Ogden		249	65	357	22	298	301	303	178	310	76	189	261	88	431	167	83	152	357	48	289	159	411	277	335	404	125	•	80	183	360	181	35	105	77	69	213	160	353	
Provo		169	49	277	102	218	221	223	98	230	116	109	181	168	351	87	34	72	274	128	238	79	331	197	255	324	45	80	•	132	280	101	45	25	23	73	162	165	273	
St. George		111	329	422	382	130	85	57	208	168	396	171	256	448	170	207	314	311	88	408	496	222	368	422	444	469	235	360	280	390	•	195	325	255	303	318	436	420	44	
Salina		84	150	307	203	117	136	138	69	129	217	52	82	269	250	14	135	116	168	229	301	29	361	227	285	354	56	181	101	195	195	•	146	76	124	154	225	255	174	
Salt Lake City		214	30	322	57	263	266	268	143	275	84	154	226	123	396	132	48	117	322	83	254	124	376	242	300	369	90	35	45	148	325	146	•	70	42	33	178	125	320	
Tooele		204	58	361	91	271	259	261	110	283	115	147	236	157	417	140	82	156	335	217	288	155	415	281	339	408	98	69	73	182	318	154	33	78	70	•	212	102	328	
Vernal		328	205	314	234	342	361	382	290	354	212	268	305	275	475	223	130	109	393	261	76	208	368	234	292	361	207	213	162	30	436	225	178	179	159	212	•	305	399	
Wendover		304	133	463	182	374	361	363	209	385	209	244	338	248	519	241	173	236	437	208	377	241	517	383	441	510	199	160	165	274	420	255	125	179	154	102	305	•	428	
Zion Nat'l Pk.		119	322	378	377	86	82	65	229	124	389	179	212	441	126	186	307	290	44	401	475	201	324	401	400	425	230	353	273	369	44	174	320	250	296	328	399	428	•	

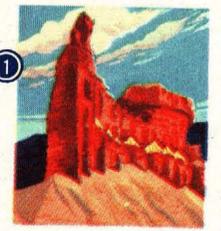
The figure given in the square where the columns intersect is the shortest distance between the two points, computed over the most direct U. S. Numbered, State or Main traveled road. Mileage on ferry lines not included.

UNITED STATES MILEAGE CHART

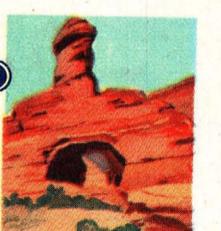
Bakersfield, Calif.	2334	3192	2223	2537	1501	1261	2414	925	1258	1696	1669	111	1894	2869	2060	2983	2002	2922	1383	1710	506	2546	890	412	1946	747	1500	236	292	907	1081	1164	2620	2644	2772	2210	1093
Boise, Idaho	2354	2776	1807	2121	1691	881	2020	1583	560	1934	1520	894	2089	3059	1644	2585	2192	2604	1546	1285	1098	2215	459	433	1778	383	1856	995	662	1009	543	396	2810	2250	2454	1537	399
Crater Lake Nat'l Park, Ore.	2776	3198	2229	2543	2113	1303	2442	1694	846	2356	1942	766	2480	3481	2066	3011	2614	3026	1996	1707	1159	2637	264	349	2200	805	2262	893	440	1433	454	521	3232	2672	2879	1959	844
Fresno, Calif.	2441	3229	2330	2644	1608	1368	2521	1032	1217	1803	1776	218	2001	2976	2167	3090	2109	3029	1490	1817	613	2653	783	305	2053	853	1607	343	185	1014	974	1057	2727	2751	2879	2160	1048
Glacier Nat'l Park, Mont.	2313	2577	1572	1922	1807	997	1837	1609	189	2050	1500	1373	1906	2977	1162	2180	2308	2469	1727	1291	1459	2080	670	1098	1758	695	1972	1466	1217	1323	580	290	2758	2072	2319	1041	371
Grand Canyon Nat'l Park, Ariz.	1909	2724	1835	2069	1076	884	1995	581	907	1352	1230	514	1469	2444	1774	2564	1577	2497	964	1424	234	2121	1245	820	1508	395	1156	575	835	482	1222	1173	2444	2225	2347	2044	716
Lassen Volcanic Nat'l Park, Calif.	2696	3153	2184	2498	1956	1221	2412	1396	1089	2167	1862	598	2384	3364	2021	2981	2457	2981	1951	1677	991	2592	477	178	2120	713	1971	725	276	1362	667	736	3156	2642	2831	2044	927
Los Angeles, Calif.	2283	3196	2227	2541	1436	1189	2376	806	1260	1583	1631	•	1917	2811	2024	2945	1943	2876	1387	1714	391	2500	1001	475	1900	702	1387	125	403	861	1192	1262	2562	2606	2726	2334	1022
Mt. Rainier Nat'l Park, Wash.	2825	3159	2154	2504	2162	1352	2424	1741	615	2405	1993	1254	2560	3493	1744	2802	2663	3030	2082	1765	1647	2641	172	838	2249	852	2327	1381	849	1480	77	290	3285	2654	2880	1742	778
Phoenix, Ariz.	1890	2771	1837	2116	1045	931	2045	415	1250	1190	1300	391	1524	2418	1821	2614	1551	2544	997	1343	•	2137	1383	799	1541	691	994	371	798	529	1580	1468	2169	2275	2394	2091	1088
Portland, Ore.	2819	3241	2272	2586	2156	1346	2523	1738	708	2399	1989	1001	1901	2554	1837	2895	2657</																				



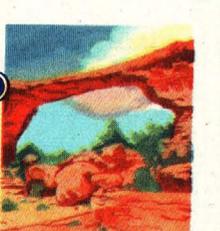
1 Capitol Reef National Monument
 Depicted here is Chimney Rock, one of many giant formations in this colorful region. The national monument embraces a part of the vast area known as the Wayne Wonderland



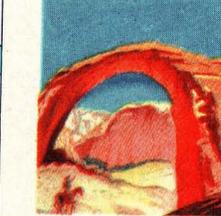
2 Arches National Monument
 Sculptured from red sandstone, this region is remarkable for a show of Nature's most bizarre architecture. The multitude of forms include huge monoliths and several great arches



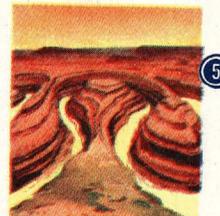
3 Natural Bridges National Monument
 The 200-foot Owachomo Natural Bridge, illustrated here, is but one of three gigantic spans that are grouped in a relatively small area and are among the largest ever discovered



4 Rainbow Bridge National Monument
 The largest known natural bridge in the world, this magnificent arch stands 309 feet above the canyon floor. Auto road approaches to within 14 miles; pack trail leads to bridge

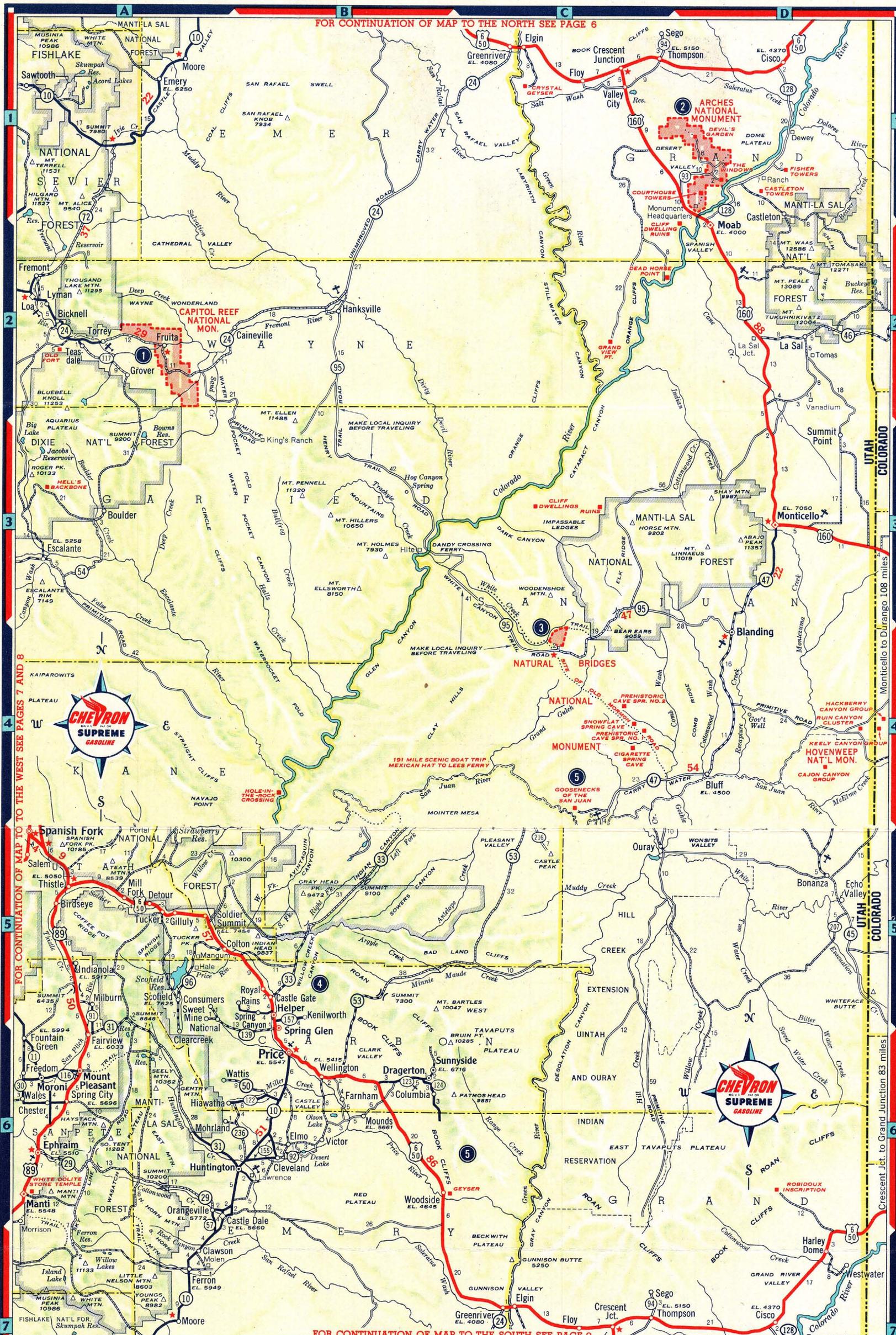


5 Gooseheads of the San Juan River
 Aptly named is this twisting canyon carved into a desert plateau by the meandering San Juan River, on its way to join the Colorado. Canyon walls are a thousand feet in height



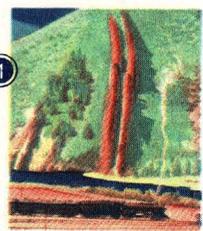
6 Monument Valley
 Giant columns soaring hundreds of feet into the sky are scattered over a wide area which stretches across the Arizona-Utah line. One of the most awesome of the West's wonders





Devils Slide

In Weber Canyon, east of Ogden, one of Utah's strangest rock phenomena can be seen. Limestone ridges run down a hillside, 20 feet apart and parallel along several hundred feet



Uinta Mountains

The vast Uinta mountain range offers a great variety of scenery, ranging from colorful rock formations, as here shown, to such lofty summits as Kings Peak, 13,498 feet, the state's highest



Fort Bridger Wyoming

A trading post on the Oregon Trail, established in 1843 by Jim Bridger, famed western scout and discoverer of Great Salt Lake. The pony express station is a relic that is still preserved



Castle Gate

Like medieval towers at the gate of a walled city, these rugged cliffs border U.S. Highway 50 as it passes through Price River Canyon on its way eastward from Wasatch Plateau



Book Cliffs

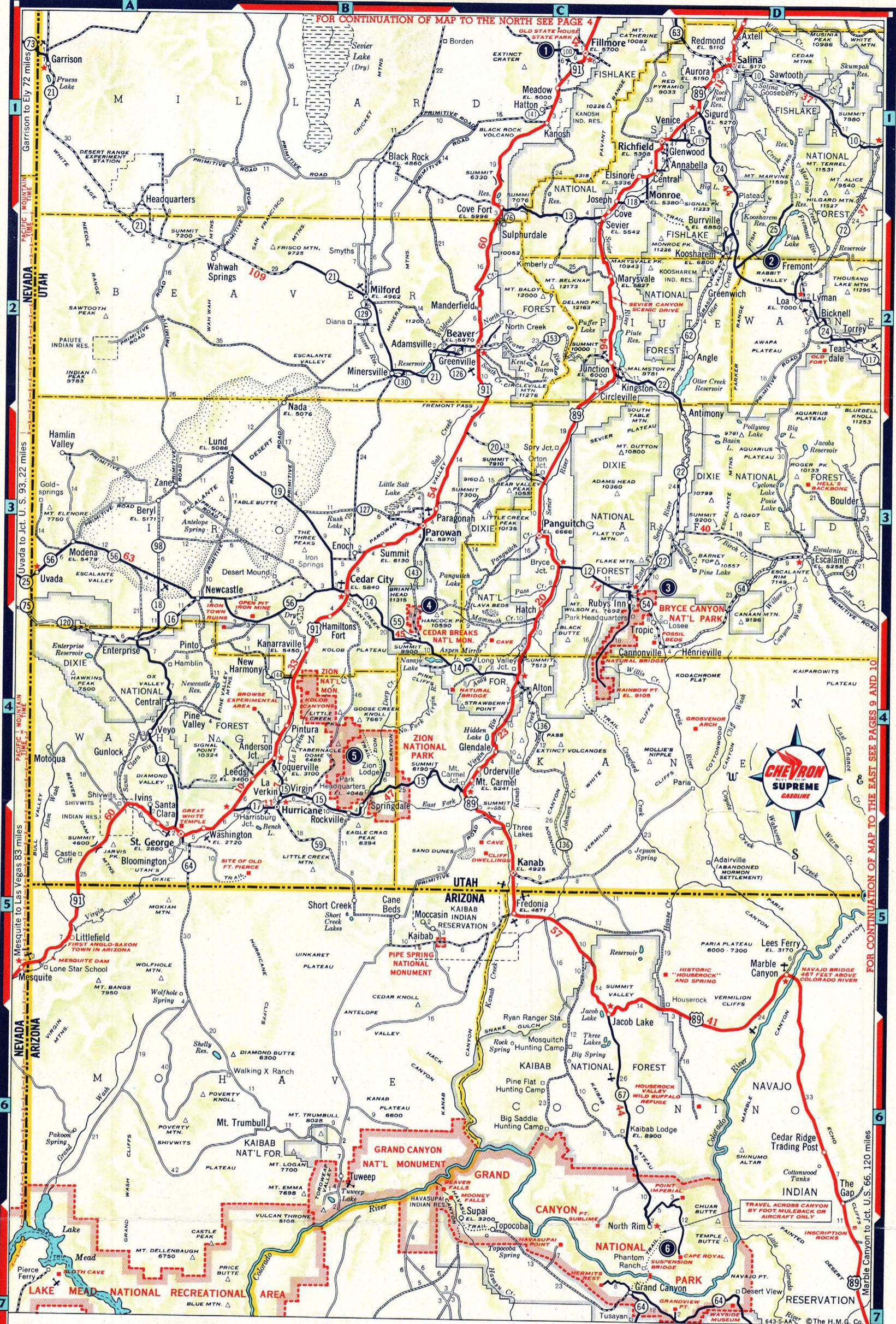
These famous cliffs form the 150-mile southern face of a great plateau in eastern Utah. Gunnison Butte, shown here, is where the Green River cuts through the chain of bluffs



Dinosaur National Monument

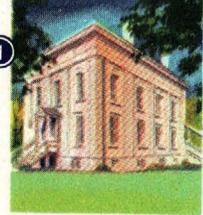
Remarkable deposits from which have come over 20 complete skeletons of prehistoric reptiles. Largest of these, when mounted, was a dinosaur 20 ft. high and almost 100 ft. long





FOR CONTINUATION OF MAP TO THE EAST SEE PAGES 9 AND 10

Old State House State Park, Fillmore
Originally designed to be the south wing for the capitol of Utah, this structure was used by legislatures of 1855-56. It is now a museum for a colorful collection of pioneer relics



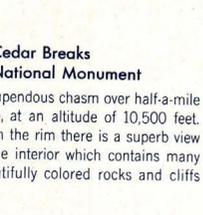
Fish Lake
Nestled between the slopes of high mountains in central Utah, at an elevation of 8600 feet, Fish Lake is among the West's highest, yet most accessible, fine fishing spots



Bryce Canyon National Park
A series of natural amphitheatres caused by erosion. These contain countless gorgeously colored spires and fantastically sculptured forms resembling castles, animals, chessmen



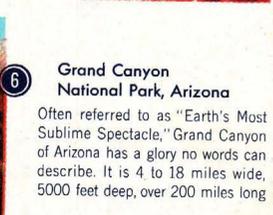
Cedar Breaks National Monument
A stupendous chasm over half-a-mile deep, at an altitude of 10,500 feet. From the rim there is a superb view of the interior which contains many beautifully colored rocks and cliffs



Zion National Park
The "Great White Throne" shown here is one of the tremendous monolithic creations of Nature for which this canyon is noted. Many colors from deep red to white, band the cliffs



Grand Canyon National Park, Arizona
Often referred to as "Earth's Most Sublime Spectacle," Grand Canyon of Arizona has a glory no words can describe. It is 4 to 18 miles wide, 5000 feet deep, over 200 miles long



Index to Geologic Thesis Mapping in Utah.

Report No. 58, Utah Geological and Mineralogical Survey, 200 Mines Building, University of Utah, S.L.C. Utah.

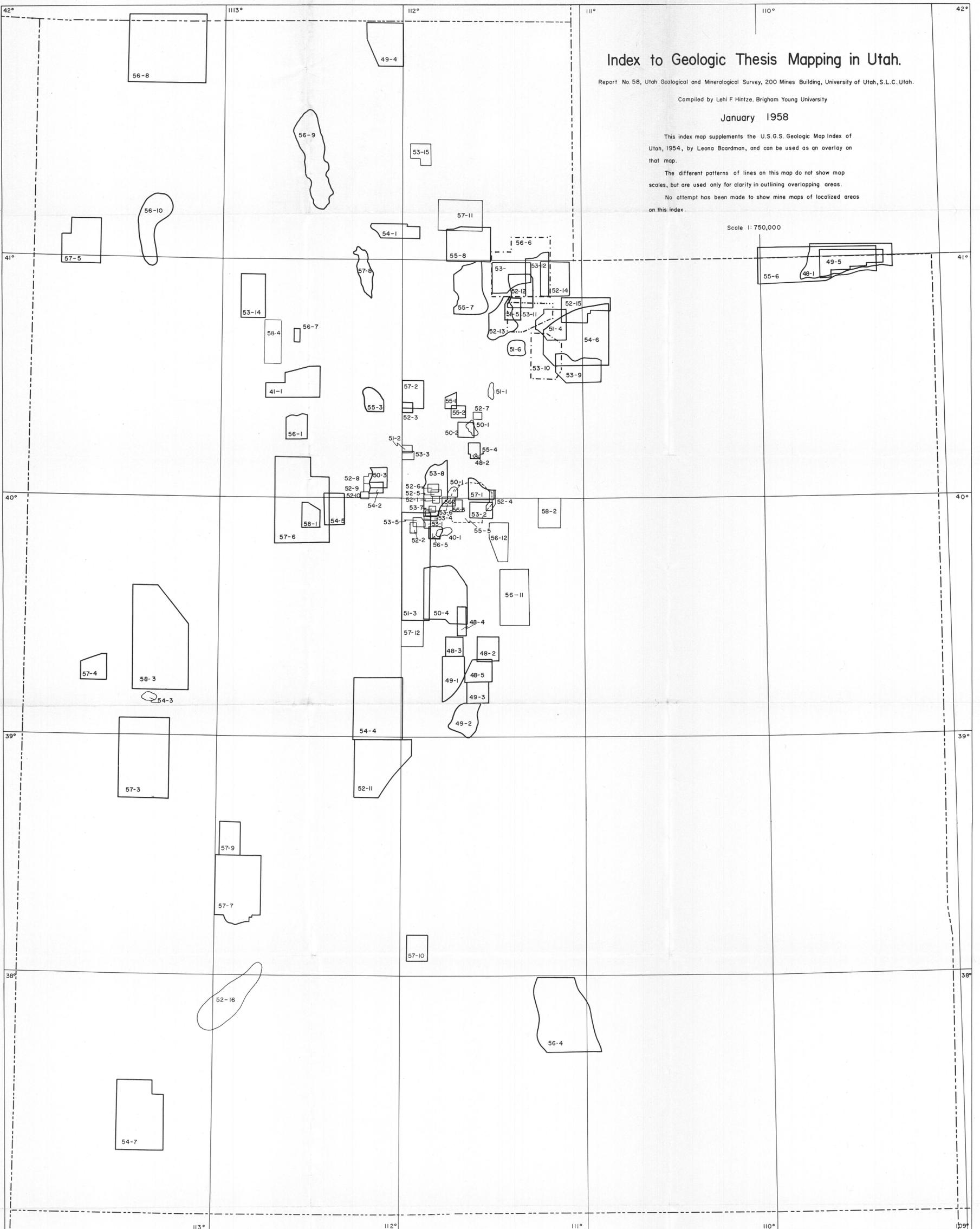
Compiled by Lehi F. Hintze, Brigham Young University

January 1958

This index map supplements the U.S.G.S. Geologic Map Index of Utah, 1954, by Leona Boardman, and can be used as an overlay on that map.

The different patterns of lines on this map do not show map scales, but are used only for clarity in outlining overlapping areas. No attempt has been made to show mine maps of localized areas on this index.

Scale 1:750,000



KEY TO INDEX MAP

Note: As this index is a supplement to the U. S. G. S. Geologic Map Index of Utah (Leona Boardman, 1954) it does not include those theses already indexed by Boardman. These are listed by year, then alphabetically by college and author.

Note on thesis availability: Theses may be borrowed in interlibrary loan from the degree-granting institution concerned. Microfilm copies of most of the theses are available for inspection but not loan at the University of Utah library and the Brigham Young University library.

*Copies of theses marked with an asterisk may be purchased from the Geology Department, Brigham Young University for \$2 each.

**Separate maps are available from the Geology Department, Brigham Young University for \$1 each.

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48-1 Martner, Samuel T., Geology of the Manila-Linwood area, Sweetwater County, Wyoming and Daguerre County, Utah: California Institute of Technology, Ph. D., 1948.

48-2 Bonar, Chester M., Geology of Ephraim area, Utah: Ohio State University, M. S., 1948.

48-3 Hunt, Robert Elton, Geology of the Dry Canyon region, Gunnison county, Utah: Ohio State University, M. S., 1948.

48-4 Taylor, Dorothy Ann, Geology of the Gunnison plateau front in the vicinity of Wales, Utah: Ohio State University, M. S., 1948.

48-5 Washburn, George R., Geology of the Mantt Canyon area, central Utah: Ohio State University, M. S., 1948.

49-1 Rehrak, Julius, Geology of the southeastern portion of the Gunnison plateau, Utah: Ohio State University, M. S., 1949.

49-2 Johnson, Mike Sam, Geology of the Twelvemile Canyon area, central Utah: Ohio State University, M. S., 1949.

49-3 Wilson, Mark Dale, Geology of the upper Sixmile Canyon area, central Utah: Ohio State University, M. S., 1949.

49-4 Hanson, Alvin M., Geology of the southern Malad Range and vicinity in northern Utah: Wisconsin University, Ph. D., 1949.

49-5 Curtis, Bruce F., Structure and stratigraphy of the Linwood-Spring Creek area, Utah-Wyoming: Harvard University, Ph. D., 1949.

50-1 Gaiser, Patric W., Stratigraphy and structure of the Provo Canyon-Rock Canyon area, south-central Wasatch Mountains, Utah: Brigham Young University, M. S., 1950.

50-2 Hebertson, Keith M., Origin and composition of the Manning Canyon formation in central Utah: Brigham Young University, M. S., 1950.

50-3 Johns, Kenneth Herbert, Geology of the Twelve Mile Pass area, Utah County, Utah: Brigham Young University, M. S., 1950.

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51-1 Brimhall, Willis H., Stratigraphy and structural geology of the northern Deer Creek Reservoir area, Provo Canyon, Utah: University of Arizona, M. S., 1951.

51-2 Smith, Grant McKay, Geology of southwest Lake mountain, Utah: Brigham Young University, M. S., 1951.

51-3 Messing, Biefried J., Geology of a part of Long Ridge, Utah: Ohio State University, Ph. D., 1951.

51-4 Hopper, Warren G., Geology of the Smith and Morehouse-South Fork area, Utah: University of Utah, M. S., 1951.

51-5 Larson, Kenneth W., Areal geology of the Rockport-Kamas area: University of Utah, M. S., 1951.

51-6 O'Toole, Walter L., Geology of the Kestley-Kamas volcanic area: University of Utah, M. S., 1951.

52-1 Ellison, James H., Geology of the Kestley-Kamas and the Genola Hills area, Utah: Brigham Young University, M. S., 1952.

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52-5 Schindler, Stanley Fred, Geology of the White Lake Hills, Utah: Brigham Young University, M. S., 1952.

52-6 Swanson, James Walter, Geology of the southern portion of West Mountain, Utah: Brigham Young University, M. S., 1952.

52-7 Turner, Frank Paul, Stratigraphy and structure of Provo Canyon between Fossil Veil Falls and South Fork: Brigham Young University, M. S., 1952.

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52-9 Kesseth, B. L., Geology of the Scranton Mine area, Tooele County, Utah: Indiana University, M. S., 1952. COMPASS, 1956.

52-10 Sargent, Robert, Geology of the South Scranton area, Tooele County, Utah: Indiana University, M. S., 1952.

52-11 Lautenschlager, Herman Kenneth, Geology of the central part of the Payant Range, Utah: Ohio State University, Ph. D., 1952.

52-12 Johnson, Melvin C., Areal geology of the Washup-Coalville area: University of Utah, M. S., 1952.

52-13 Mount, Donald Lee, Geology of the Washup-Park City region, Utah: University of Utah, M. S., 1952.

52-14 Ranjall, Arthur G., Areal geology of the Pinecliff area, Summit County, Utah: University of Utah, M. S., 1952.

52-15 Root, Robert L., Geology of the Smith and Morehouse-Hayden Fork area, Utah: University of Utah, M. S., 1952.

52-16 Thurst, Richard L., Geology of the Red Hills area, Iron County, Utah: University of Washington, Ph. D., 1952.

52-17 Clark, Robert S., Structure and stratigraphy of Government Ridge, Utah: Brigham Young University, M. S., 1953.

52-18 Harris, Harold Dams, Geology of the Birdseye area, Utah: Brigham Young University, M. S., 1953.

52-19 Ornelas, Richard Henry, Clay Deposits of Utah County, Utah: Brigham Young University, M. S., 1953.

52-20 Peacock, C. Herchel, Geology of the Government Hill area, a part of Long Ridge, Utah: Brigham Young University, M. S., 1953.

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52-24 White, Bob D., Geology of West Mountain and northern portion of Long Ridge, Utah County, Utah: Brigham Young University, M. S., 1953.

52-25 Ekelson, Quinn M., Geology of the Snagstone Basin and vicinity, Wasatch, Summit and Duchesne Counties, Utah: University of Utah, M. S., 1953.

52-26 McDonough, William D., Geology of Beaver Creek and adjacent areas, Utah: University of Utah, M. S., 1953.

52-27 Stach, Norman P., Areal geology of the Upton region, Summit County, Utah: University of Utah, M. S., 1953.

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54-20 *Smith, Glenn V., Geology of the North Canyon area, Southern Wasatch Mountains, Utah: Brigham Young University, M. S., 1956. BYU Research Studies, Geology Series, Vol. 3, No. 7, July, 1956.

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56-8 Felix, Clarence, Geology of the eastern part of the Red River Range, Utah-Idaho, 1956 Utah Geol. Society Guidebook 11. (From Ph. D. thesis work in progress by author at University of Utah)

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57-10 Smith, Theodore, L., Geology of the Antimony Canyon area, Garfield and Piute Counties, Utah: University of Utah, M. S., 1957.

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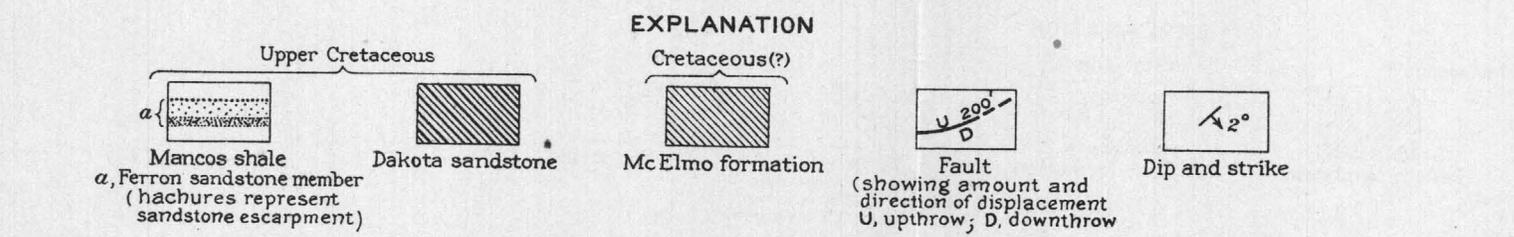
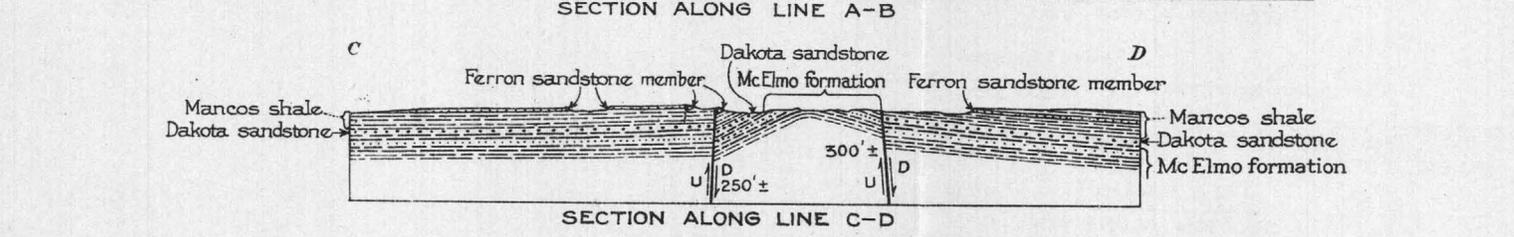
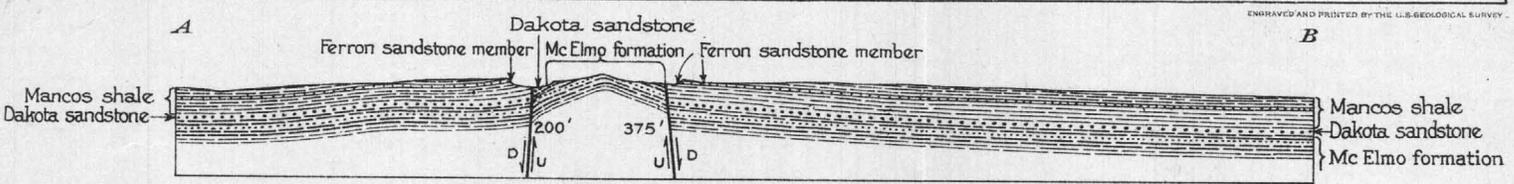
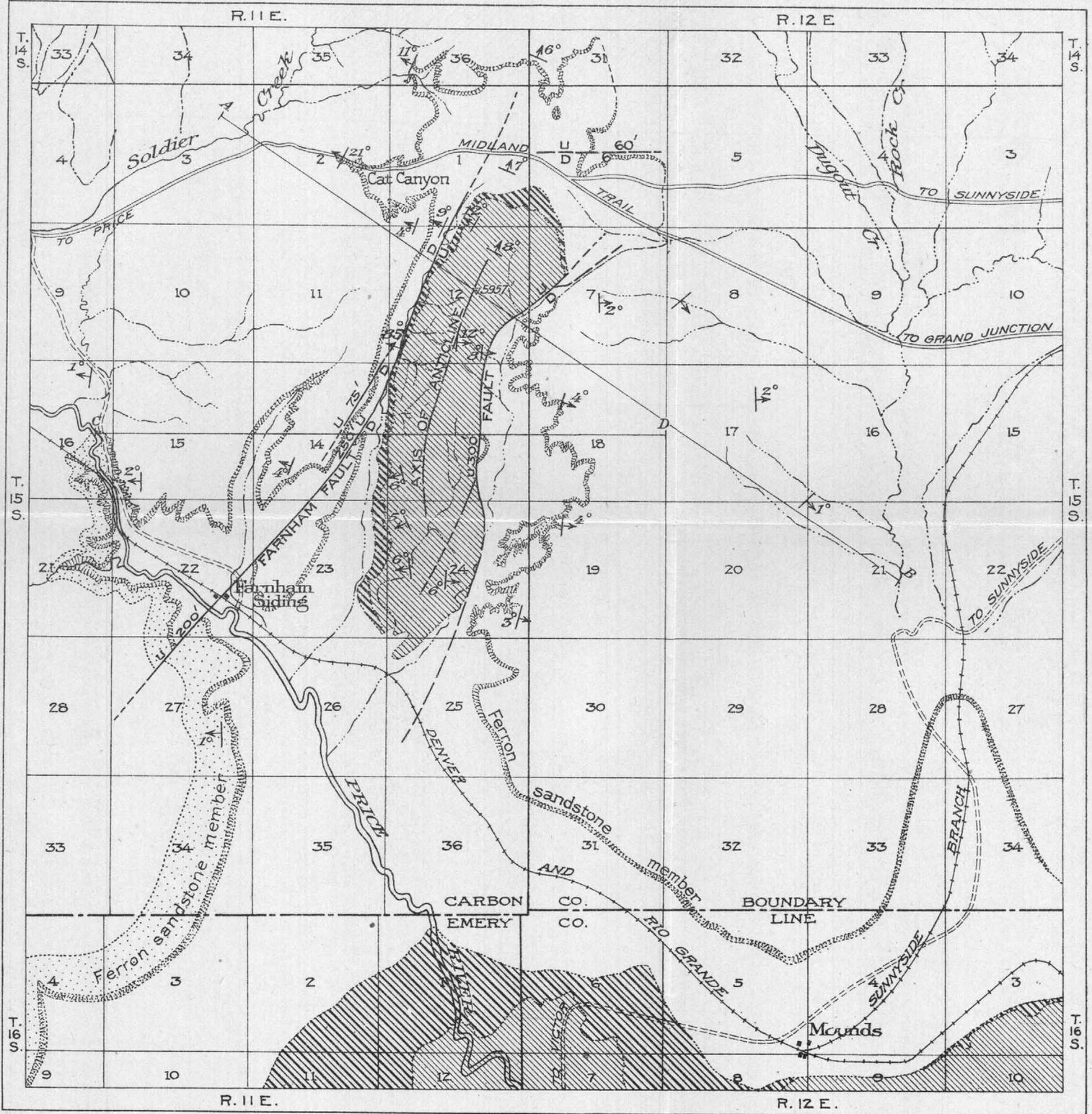
57-12 Vogel, James W., Geology of southernmost Juab Valley and adjacent highlands, Juab County, Utah: Ohio State University, M. S., 1957.

58-1 *Harris, DeVerle P., Geology of Dutch Peak area, Sheep Rock Range, Tooele County, Utah: Brigham Young University, M. S., 1958. BYU Research Studies, Geology Series, Vol. 5, No. 1, January, 1958.

58-2 *Prescott, Max W., Geology of the northwest quarter of the Soldiers Summit quadrangle, Utah: Brigham Young University, M. S., 1958. BYU Research Studies, Geology Series, Vol. 5, No. 2, February, 1958.

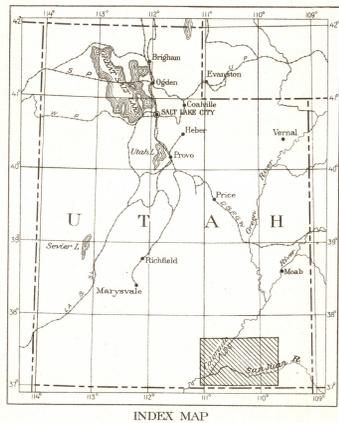
58-3 *Hintze, L. F., and others (1957 BYU geology summer camp students), Geology of the northern House Range, Millard County, Utah: Brigham Young University, M. S., 1958. (available in May)

58-4 Evertth, Kaye, Geology and Groundwater of Skull Valley, Tooele County, Utah: University of Utah, M. S., 1958.



GEOLOGIC MAP OF THE FARNHAM ANTICLINE, CARBON COUNTY, UTAH.





EXPLANATION

SEDIMENTARY ROCKS

- Sandstone
- Gypsiferous and calcareous shale and sandstone
- Navajo sandstone, Todilto(?) formation, and Wingate sandstone

JURASSIC

- UNCONFORMITY
Chinle formation

TRIASSIC

- UNCONFORMITY
Shinarump conglomerate
- UNCONFORMITY
Moenkopi formation

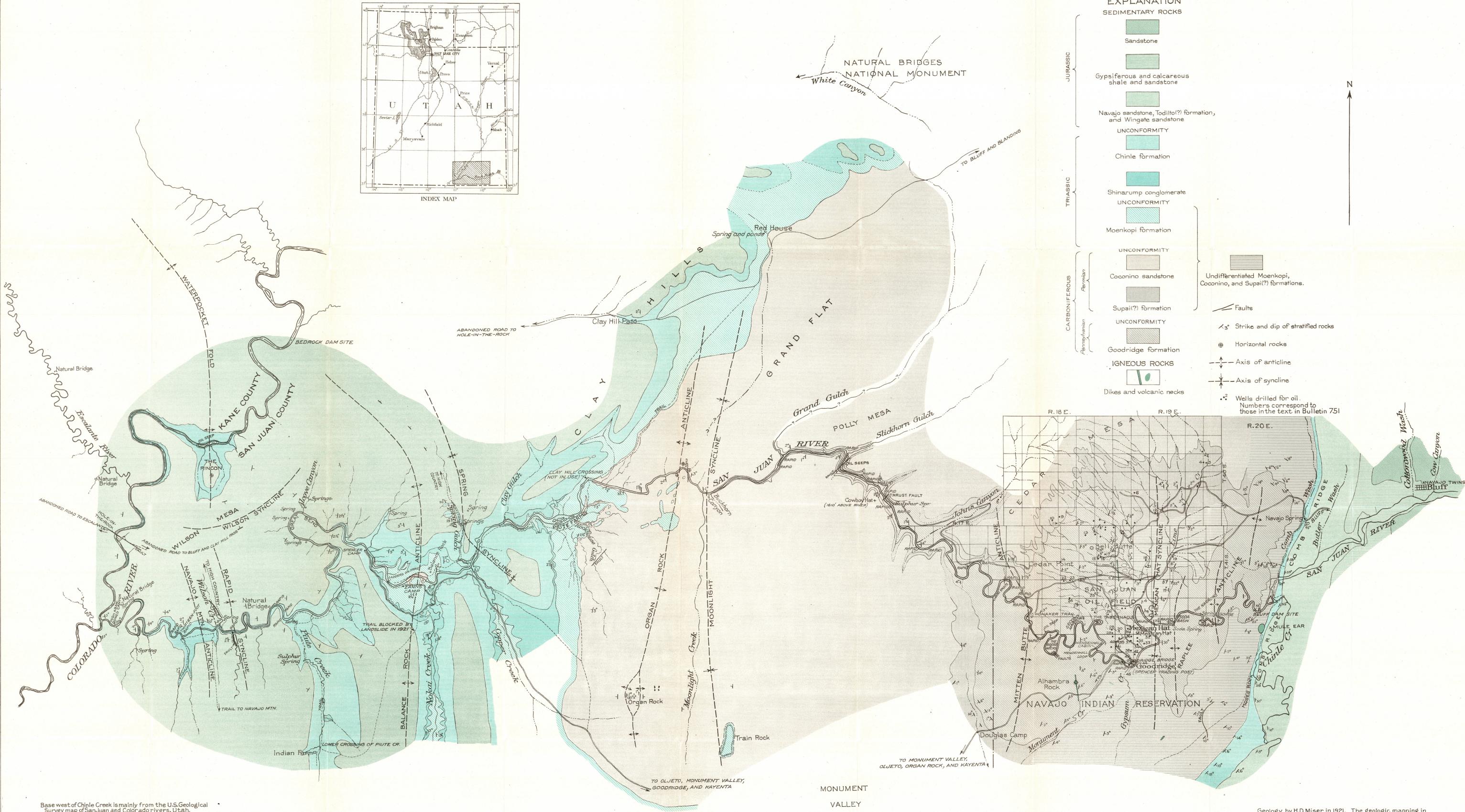
CARBONIFEROUS

- UNCONFORMITY
Coconino sandstone
- UNCONFORMITY
Supai(?) formation
- UNCONFORMITY
Goodridge formation

- IGNEOUS ROCKS
Dikes and volcanic necks

- Undifferentiated Moenkopi, Coconino, and Supai(?) formations.

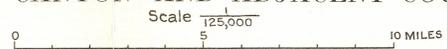
- Faults
- Strike and dip of stratified rocks
- Horizontal rocks
- Axis of anticline
- Axis of syncline
- Wells drilled for oil. Numbers correspond to those in the text in Bulletin 751



Base west of Chinle Creek is mainly from the U.S. Geological Survey map of San Juan and Colorado rivers, Utah. Base east of Chinle Creek is from the Bureau of Reclamation map of the Bluff city reservoir.

Geology by H.D. Miser in 1921. The geologic mapping in and near the San Juan oil field is largely taken from map by E.G. Woodruff in U.S.G.S. Bulletin 471.

GEOLOGIC MAP OF THE SAN JUAN CANYON AND ADJACENT COUNTRY, IN SOUTHEASTERN UTAH



UTAH
INDEX MAP