

Bibliography of Selected Water-Resources Publications on Nevada by the U.S. Geological Survey, 1885 through 1995

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I. Map showing hydrographic areas in Nevada 2

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ABSTRACT

References to 898 water-resources publications are listed alphabetically by senior author and indexed by hydrographic-area name or other geographic features. Most of the publications were written between 1960 and 1995 by U.S. Geological Survey scientists and engineers of the Water Resources Division, Nevada District. Also included are references to publications by other Water Resources Division authors that deal with Nevada hydrology. References to publications written before 1960 are included to provide a historical perspective. The references include several types of Geological Survey book and map publications, as well as State-series reports, journal articles, conference and symposium papers, abstracts, and graduate-degree theses. Information on publication availability is provided also.

INTRODUCTION

This bibliography is a compilation of references to 898 publications pertaining to the water resources of Nevada. Most of the listed publications were written during the last three decades by U.S. Geological Survey (USGS) scientists and engineers of the Water Resources Division, Nevada District. Also included are references to publications by other Water Resources Division authors that deal with Nevada hydrology. References to publications written before 1960 are included to provide a historical perspective. This report contains 294 references in addition to those in the bibliography it supersedes (Bunch, 1994).

The compilation herein contains references to reports published from 1885 through December 1995. References are listed alphabetically by senior author in the section titled "Water-Resources Publications." Following that section is a geographic index. Most of the publications are indexed by hydrographic area¹, but hydrologic and political names, such as Lake Mead or the Nevada Test Site, are included also. Other locators, such as specific river basins, are given for large study areas that include many hydrographic areas and for publications that had not been catalogued as to hydrographic area at the time this report was published. The hydrographic areas of Nevada are shown in figure 1.

Notification of omissions and errors in the citations and index would be appreciated; they may be sent to the author at the Nevada address on the back of the title page. Electronic mail may be sent to rlsweet@usgs.gov.

The following are separate bibliographies that list publications by USGS personnel pertaining to the Yucca Mountain and Nevada Test Site areas of southern Nevada:

Glanzman, V.M., 1991, Bibliography of publications related to the Yucca Mountain Site Characterization Project prepared by U.S. Geological Survey personnel through April 1991: U.S. Geological Survey Open-File Report 91-341, 52 p. [480 citations and subject index]

¹Formal hydrographic areas in Nevada were delineated systematically by the U.S. Geological Survey and Nevada Division of Water Resources in the late 1960's for scientific and administrative purposes (Rush, 1968; Cardinalli and others, 1968). The official hydrographic-area names, numbers, and geographic boundaries continue to be used in Geological Survey scientific reports and Division of Water Resources administrative activities.

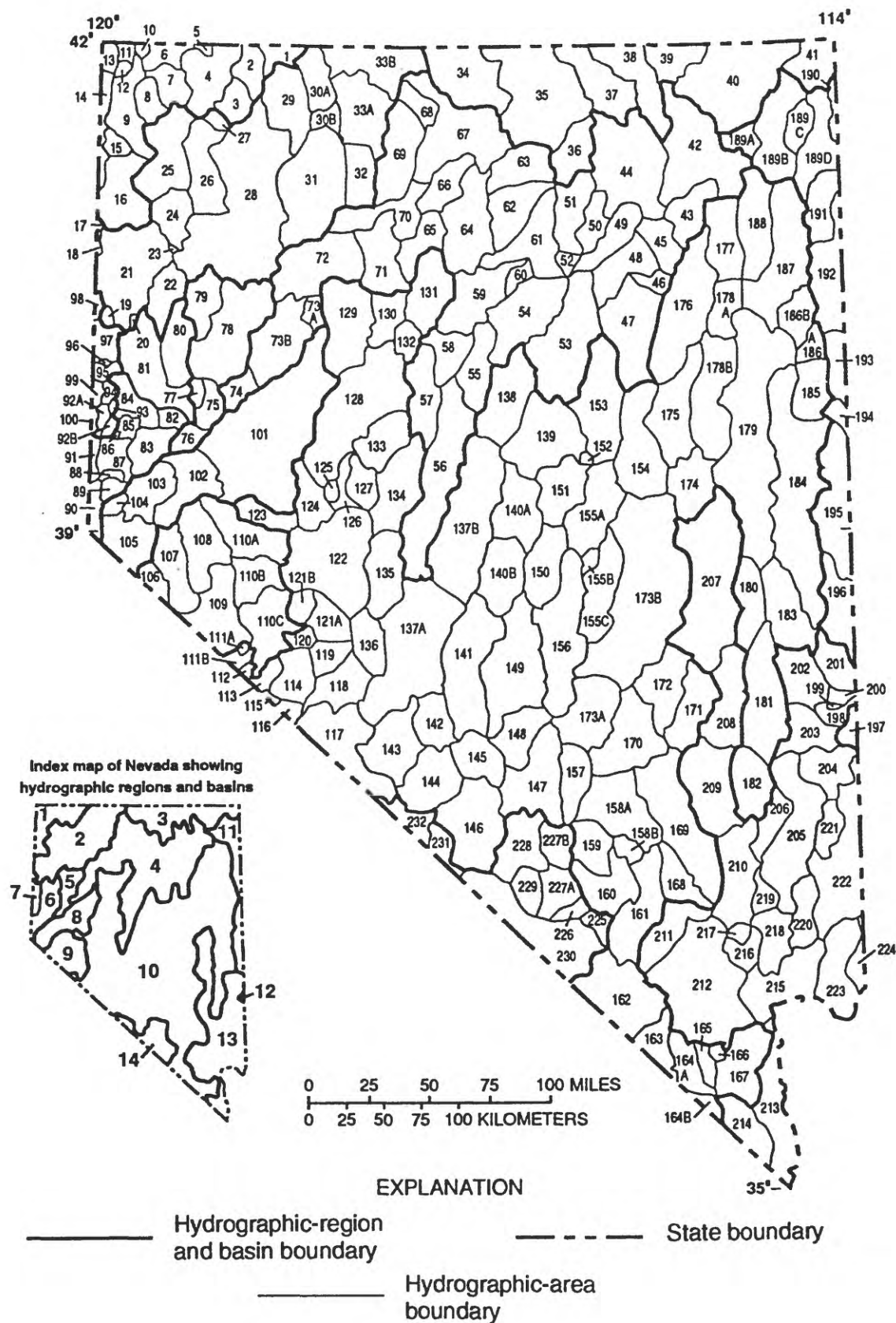


Figure 1.—Hydrographic areas in Nevada (modified from Rush, 1968a).

1-NORTHWEST REGION

1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION

17. Pilgrim Flat
18. Painter Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
- (A) Rio King Subarea
- (B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
- (A) Orovida Subarea
- (B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbridge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Area
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek --Tenmile Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V
55. Canco Lake V
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpnickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
- (A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Warm Springs V
85. Spanish Springs V.

86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
- (A) Western Part
- (B) Eastern Part
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skeddaddle Creek V.
99. Red Rock V.
100. Cold Spring V.
- (A) Long V.

8-CARSON RIVER BASIN

101. Carson Desert
- (A) Packard V.
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson V.

9-WALKER RIVER BASIN

106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
- (A) Schurz Subarea
- (B) Lake Subarea
- (C) Whisky Flat --Hawthorne Subarea

10-CENTRAL REGION

111. Alkali V. (Mineral)
- (A) Northern Part
- (B) Southern Part
112. Mono V.
113. Huntton V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
- (A) Eastern Part
- (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V
134. Smith Creek V.
135. Ione V
136. Monte Cristo V.
137. Big Smoky V.
- (A) Tonopah Flat
- (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
- (A) Northern Part
- (B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V
144. Lida V.
145. Stonewall Flats
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
- (A) Northern Part
- (B) Central Part
- (C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
- (A) Groom Lake V.
- (B) Papoose Lake V.

159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
- (A) Northern Part
- (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
- (A) Northern Part
- (B) Southern Part
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
- (A) Southern Part
- (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
- (A) Northern Part (Round V.)
- (B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippet V.
186. Antelope V. (White Pine & Elko)
- (A) Southern Part
- (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
- (A) Hemill Siding--Brush Creek Area
- (B) Toano--Rock Spring Area
- (C) Rocky Butte Area
- (D) Montello--Crittenden Creek Area (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

12-ESCALANTE DESERT

197. Escalante Desert

13-COLORADO RIVER BASIN

198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahrnagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado River V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

*Noncontributing part of the Colorado River basin

14-DEATH VALLEY BASIN

225. Mercury V
226. Rock V.
227. Fortymile Canyon
- (A) Jackass Flats
- (B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

Glanzman, V.M., 1992, Bibliography of publications prepared by U.S. Geological Survey personnel under cooperative programs with the U.S. Department of Energy and predecessor agencies, 1957-1991, with emphasis on nuclear testing programs: U.S. Geological Survey Open-File Report 92-502, 83 p. [945 citations and subject index]

These two reports may be purchased from Information Services. (See section titled "Availability of Publications.")

WATER-RESOURCES DATA REPORTS

Water-resources data were published in Geological Survey Water-Supply Papers until 1970. Data on surface-water quantity were the first to be reported, beginning before 1900. From 1941 to 1970, data on surface-water quality were reported annually in separate Water-Supply Papers. The data were reported by water year, which is a 12-month period from October 1 to September 30, designated by the calendar year in which it ends. From 1946 to 1974, ground-water levels were reported by calendar year in separate Water-Supply Papers. Since water year 1961, water-resources data also have been published in a series of annual reports for Nevada.

Compilations of data on surface-water quantity in Nevada for water years through 1970 are summarized geographically by "part number" in the following Water-Supply Papers (WSP):

Water year	WSP number		
	Part 9 ^a	Part 10 ^b	Part 13 ^c
Through 1950	1313	1314	1317
1951-60	1733	1734	1737
1961-65	1926	1927	1934
1966-70	2126	2127	2134

^a Colorado River Basin

^b The Great Basin

^c Snake River Basin

Information on surface-water quality in Nevada for water years 1941-70 is given in the following Water-Supply Papers:

Water year	WSP number	Water year	WSP number	Water year	WSP number
1941	942	1951	1200	1961	1885
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1958
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2098
1949	1163	1959	1645	1969	2148
1950	1189	1960	1745	1970	2158

Information on ground-water levels in Nevada for calendar years 1946-74 is given in the following Water-Supply Papers:

Calendar year	WSP number	Calendar year	WSP number
1946-50	1170	1955	1409
1951	1196	1956-60	1770
1952	1226	1961-65	1855
1953	1270	1966-70	2010
1954	1326	1971-74	2162

Surface-water records have been released in U.S. Geological Survey annual data reports for Nevada since water year 1961. Data on surface-water quality have been included in the annual reports since 1965; data on ground-water levels have been included since 1975; and data on ground-water quality have been included since 1976. These annual data reports are:

U.S. Geological Survey, 1962-65, Surface water records of Nevada, 1961-64: Carson City, Nev., U.S. Geological Survey water-data reports (published annually).

U.S. Geological Survey, 1966-75, Water resources data for Nevada, 1965-74: Carson City, Nev., U.S. Geological Survey water-data reports (published annually).

U.S. Geological Survey, 1976-95, Water resources data, Nevada, water years 1975-94: U.S. Geological Survey Water-Data Reports NV-75-1 to NV-94-1 (published annually).

NOTE: Data reports for water year 1982 and all subsequent years are listed individually herein by specific author (for example, see Frisbie and others, 1983).

AVAILABILITY OF PUBLICATIONS

This bibliography contains references to publications of many organizations in addition to those of the U.S. Geological Survey. Inspection copies of many USGS reports, including unnumbered open-file reports, are available at the Nevada District office in Carson City. Publications of organizations other than the U.S. Geological Survey may be obtained from the appropriate agency or publishing organization. Some publications are out of print and available only from libraries, such as the Nevada State Library and the University of Nevada Libraries. Graduate-degree theses may be borrowed from the author or university cited in the reference.

U.S. Geological Survey Water-Resources Investigations and Open-File Reports are available from:

Information Services
U.S. Geological Survey
Box 25286, MS 517, Federal Center
Denver, CO 80225-0046
(303) 202-4200 or 4210

U.S. Geological Survey book and map publications are available from:

Western Distribution Branch
U.S. Geological Survey
Box 25286, Federal Center
Denver, CO 80225-0046
(303) 202-4000 or 1-800-HELP MAP (435-7627)

Prepayment is required for books and maps. When ordering either books or maps, give the series designation, number, and title. For example: Water-Supply Paper 2313, *Streamflow, sediment transport, and nutrient transport at Incline Village, Lake Tahoe, Nevada, 1970-73*.

Inquiries about the investigations described in the publications listed herein may be addressed to:

Public Information Assistant
U.S. Geological Survey, WRD
333 W. Nye Lane, Room 203
Carson City, NV 89706-0866
Telephone: (702) 887-7649
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New publications of the U.S. Geological Survey—for Nevada as well as other states—are listed in *Publications of the Geological Survey*, which is published annually and may be ordered from Information Services, U.S. Geological Survey, Box 25286, MS 517, Federal Center, Denver, CO 80225-0046.

The monthly lists of new publications are available on the world wide web. The address is <http://pubs.usgs.gov/publications/index.html>.

WATER-RESOURCES PUBLICATIONS

NOTE: Asterisk indicates citation added since previous bibliography (Bunch, 1994). Letters are added sequentially after years when an author or authors had more than one publication within a given year. These letters help distinguish publications within the index that follows this listing.

Andraski, B.J., 1989, Physical properties of trench back-fill at a simulated burial site for low-level radioactive waste near Beatty, NV [abs.]: 80th Annual Meeting, American Society of Agronomy, Anaheim, Calif., December 1988, Program of Agronomy Abstracts, v. 80, p. 178.

Andraski, B.J., 1990a, Rubber-balloon and drive-core sampling for determining bulk density of an alluvial desert soil [abs.]: 1990 Annual Meetings, American Society of Agronomy, San Antonio, Texas, October 1990, Agronomy Abstracts, p. 208.

Andraski, B.J., 1990b, Soil-water movement at a simulated burial site for low-level radioactive waste near Beatty, Nevada—First year results [abs.], in Nevada decision point—Which water course to the future?: Annual Conference, Nevada Water Resources Association, Las Vegas, Nev., February 1990, Program Information and Abstracts, unpaginated.

Andraski, B.J., 1990c, Water movement and trench stability at a simulated arid burial site for low-level radioactive waste near Beatty, Nevada: La Grange Park, Ill., American Nuclear Society, Nuclear Waste Isolation in the Unsaturated Zone, Las Vegas, Nev., September 1989, Proceedings, p. 166-173.

Andraski, B.J., 1991a, Balloon and core sampling for determining bulk density of an alluvial desert soil: Soil Science Society of America Journal, v. 55, p. 1188-1190.

Andraski, B.J., 1991b, Soil-water regime at a low-level radioactive waste site, Amargosa Desert, Nevada: Characterization of Transport Phenomena in the Vadose Zone, A Workshop Sponsored by Soil Science Society of America and American Geophysical Union, Tucson, University of Arizona, April 1991, Proceedings, p. 2-3.

Andraski, B.J., 1991c, Vegetation and land-disturbance effects on recharge potential, Amargosa Desert.

- Nevada [abs.]: 1991 Annual Meetings, American Society of Agronomy, Denver, Colo., October 1991, Agronomy Abstracts, p. 212.
- Andraski, B.J., 1992, Water movement through soil at a low-level radioactive-waste site in the Amargosa Desert: U.S. Geological Survey Yearbook, Fiscal Year 1991, p. 73-75.
- *Andraski, B.J., 1994, Disturbance effects on soil properties and water balance at a low-level radioactive waste site, Amargosa Desert, Nevada [abs.]: 86th Annual Meeting, American Society of Agronomy, Seattle, November 1994, Agronomy Abstracts, v. 86, p. 227.
- Andraski, B.J., Fischer, J.M., and Prudic, D.E., 1991, Beatty, Nevada, in Trask, N.J., and Stevens, P.R., U.S. Geological Survey Research in radioactive waste disposal—Fiscal years 1986-90: U.S. Geological Survey Water-Resources Investigations Report 91-4084, p. 34-40.
- Andraski, B.J., and Lowery, Burt, 1992, Erosion effects on soil water storage, plant water uptake, and corn growth: Soil Science Society of America Journal, v. 56, no. 6, p. 1911-1919.
- *Andraski, B.J., Prudic, D.E., and Nichols, W.D., 1995, Waste burial in arid environments—Application of information from a field laboratory in the Mojave Desert, southern Nevada: U.S. Geological Survey Fact Sheet FS-179-95, 4 p.
- Arteaga, F.E., 1978, Appraisal of water resources in the Fort McDermitt Indian Reservation, Humboldt County, Nevada: U.S. Geological Survey Open-File Report 78-139, 50 p.
- Arteaga, F.E., 1982, Mathematical model analysis of the Eagle Valley ground-water basin, west-central Nevada: U.S. Geological Survey Open-File Report 80-1224, 55 p.
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- Arteaga, F.E., and Durbin, T.J., 1978 [1979], Development of a relation for steady-state pumping rate for Eagle Valley ground-water basin, Nevada: U.S. Geological Survey Open-File Report 79-261, 44 p.
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- *August, M.H., and Long, Kati, 1994, Development of a data base to support the publication of the USGS Water Data report: Fifth Annual Conference, Nevada State GIS, Sparks, December 1994, Final Program, unpaginated.
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- *Bauer, E.M., and Cartier, K.D., 1995, Reference manual for data base on Nevada well logs: U.S. Geological Survey Open-File Report 95-460, 31 p.
- *Beck, D.A., and Glancy, P.A., 1995, Overview of runoff of March 11, 1995, in Fortymile Wash and Amargosa River, southern Nevada: U.S. Geological Survey Fact Sheet FS-210-95, 4 p.

- Bedinger, M.S., Harrill, J.R., Langer, W.H., Thomas, J.M., and Mulvihill, D.A., 1984a, Maps showing ground-water levels, springs, and depth to ground water, Basin and Range Province, Nevada: U.S. Geological Survey Water-Resources Investigations Report 83-4119-B, 2 sheets, scale 1:500,000.
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INDEX

This index is based mainly on hydrographic area (HA) as defined by Rush (1968a). Following the hydrographic-area name is the hydrographic-area number (see figure 1), which can help differentiate valleys with the same name. For some areas, a county name is provided. In addition, headings are included for principal lakes, reservoirs, and river basins. Part numbers (see p. 2-3) are noted for major basins.

Adobe Valley (HA 115)

Van Denburgh and Glancy, 1970

Alkali Spring Valley (HA 142)

Meinzer, 1917; Rush, 1968b; Shamberger, 1982

Alkali Valley (Mineral Co.; HA 111)

Van Denburgh and Glancy, 1970

Amargosa Desert (HA 230)

Andraski, 1989, 1990a,b,c, 1991a,b,c, 1992, 1994; Andraski and others, 1991, 1995; Beck and Glancy, 1995; Bedinger and others, 1989; Beutner and Andraski, 1989; Brown and Nichols, 1990; Carson, 1979, 1980; Claassen, 1985, 1986; Coplen and others, 1990, 1993; Czarnecki, 1990a,b; Czarnecki and Wilson, 1991; Dettinger, 1989a, 1992; Dettinger and others, 1995; Dudley and Larson, 1976; Eakin and others, 1963; Edwards and others, 1993; Feth, 1966; Fischer, 1990, 1992; Fischer and Nichols, 1986; Galloway and Wilcoxon, 1993; Gee and others, 1994; Hale and Westenburg, 1995; Hanes, 1976; Hoffman, 1988; Hunt and Robinson, 1960; Johnson, 1993, 1994; Johnson and others, 1989; Kane and others, 1994; Kilroy, 1991; La Camera and Westenburg, 1994; Larson, 1974a,b, 1975; Lico, 1992a; Loeltz, 1960; Loeltz and Malmberg, 1961; Ludwig and others, 1992; Miller, 1977; Morgan and Fischer, 1984a,b; Nichols, 1982, 1987, 1990; Nichols and Akers, 1985; Oatfield and Czarnecki, 1990; Pabst and others, 1993; Prudic, 1994a,b; Prudic and others, 1995a; Prudic and Striegl, 1994, 1995; Pupacko and others, 1989c; Robinson and Beitem, 1975; Robison and others, 1988; Savard, 1995; Thomas and others, 1991; Walker and Eakin, 1963; Welch and Williams, 1987i; Westenburg, 1993; Winograd, 1963; Winograd and others, 1988, 1992; Winograd and Szabo, 1986; Winograd and Thordarson, 1975; Wood and Andraski, 1992, 1995; Wood and Fischer, 1991, 1992; Wood and others, 1992; Worts, 1963a

Antelope Valley (Lander Co.; HA 57)

Crosthwaite, 1963; Eakin and Lamke, 1966; Waring, 1918

Antelope Valley (Washoe Co.; HA 93)

Rush and Glancy, 1967

Antelope Valley (Lyon Co.; HA 106)

Glancy, 1971b; Harrill and Nowlin, 1976; Lamke and Moore, 1965; Lico, 1992a; Nowlin, 1976, 1982; Rush and Hill, 1972; Thodal, 1989, 1992a; Welch and others, 1986, 1988; Welch and Williams, 1987e

Antelope Valley (Eureka Co.; HA 151)

Bunch and Harrill, 1984; Fiero and others, 1974; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Rush and Everett, 1964; Schroder and others, 1971; Welch and Williams, 1986a

Antelope Valley (Elko Co.; HA 186)

Bedinger and others, 1990; Eakin and others, 1951a; Harrill, 1971; Loeltz and Malmberg, 1961; Snyder, 1963

Bedell Flat (HA 94)

Rush and Glancy, 1967

Big Smoky Valley (HA 137)

Bunch and Harrill, 1984; Fiero and others, 1974; Loeltz and Malmberg, 1961; Meinzer, 1916, 1917; Olmsted and others, 1973; Phoenix, 1949b; Prudic and others, 1995a; Robinson, 1953; Robinson and others, 1947; Rush and Schroer, 1970; Schroder and others, 1971; Shamberger, 1975; Welch and Williams, 1986a, 1987f

Black Mountains Area (HA 215)

Carpenter, 1915; Dettinger, 1992; Harbeck and others, 1958; Loeltz and Malmberg, 1961; Mendenhall, 1909; Pupacko and others, 1989c; Rush, 1968d; Smith and others, 1960; Thomas and others, 1991; Westenburg, 1995

Black Rock Desert (HA 28)

Benson and others, 1995; Benson and Paillet, 1989; Benson and Thompson, 1987a; Garcia and Jacoboni, 1991; Lao and Benson, 1988; Mariner and others, 1976; Olmsted, 1974; Olmsted and others, 1973, 1975; Russell, 1885; Sass and others, 1979; Schaefer and Maurer, 1980b, 1983; Schaefer and others, 1983; Sinclair, 1963c; Welch and Preissler, 1990; Welch and Williams, 1987b

Boulder Flat (HA 61)

Eakin and Lamke, 1966; Johnson, 1995; Loeltz, 1953; Nichols, 1994; Plume and Stone, 1992; Thomas and Lamke, 1962; Waring, 1918

Boulder Valley (HA 15)

Sinclair, 1963a

Bradys Hot Springs Area (HA 75)

Garcia and Jacoboni, 1991; Harrill, 1970b; Olmsted and others, 1973, 1975; Russell, 1885; Welch and Preissler, 1986

Bruneau River Area (HA 38)

Laird, 1964; Moore and Eakin, 1968; Riggs and Moore, 1965; Young and Lewis, 1982

Buckboard Mesa (HA 227B)

Dettinger, 1992; Dettinger and others, 1995; Mendenhall, 1909; Reiner and others, 1995; Robie and others, 1995; Rush, 1971; Sass and Lachenbruch, 1982; Squires and Young, 1984; Walker and Eakin, 1963; Welch and Williams, 1987g

Buena Vista Valley (HA 129)

Benson and Paillet, 1989; Benson and Thompson, 1987a; Blankennagel and Weir, 1973; Garcia and Jacoboni, 1991; Loeltz and Malmberg, 1961; Loeltz and Phoenix, 1955; Olmsted and others, 1973; Russell, 1885; Shamberger, 1973a; Welch and Williams, 1987c

Buffalo Valley (HA 131)

Dettinger, 1989b; Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Olmsted and others, 1973, 1975; Sass and others, 1976; Waring, 1918; Welch and Williams, 1987c; Williams and Bedinger, 1984

Butte Valley (HA 178)

Bunch and Harrill, 1984; Glancy, 1968b; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Pupacko and others, 1989c; Savard and Crompton, 1993; Snyder, 1963; Welch and Williams, 1986b,c

Cactus Flat (HA 148)

Eakin and others, 1963; Rush, 1971; Schroder and others, 1971; Welch and Williams, 1987g

California Wash Area (HA 218)

Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Mendenhall, 1909; Rush, 1968d; Schaefer and Harrill, 1995; Thomas and others, 1991; Westenburg, 1995

Carico Lake Valley (HA 55)

Eakin and Lamke, 1966; Everett and Fish, 1966

Carson Desert (HA 101)

Benson and Paillet, 1989; Benson and Thompson, 1987a; Carman, 1989, 1993; Cloern and others, 1983a,b, 1987; Garcia and Jacoboni, 1991; Glancy, 1982, 1984a, 1986; Glancy and Katzer, 1976; Hallock and Hallock,

1993; Hoffman, 1989, 1994; Hoffman and others, 1990; Iversen and others, 1987; Kharaka and others, 1984; Lee and Clark, 1916; Lico, 1992a,b; Lico and others, 1986a, b, 1987, 1989b; Lico and Seiler, 1994; Maurer and others, 1994; Morgan, 1982; Nowlin and others, 1980; Olmsted, 1974, 1977, 1985; Olmsted and others, 1973, 1975, 1981, 1984; Oremland, 1983, 1994; Oremland and Des Marais, 1983; Oremland and others, 1982, 1985, 1989, 1990, 1991, 1994, 1995; Rowe, 1989; Rowe and Hoffman, 1990; Rowe and others, 1991; Rush, 1972b; Russell, 1885; Seiler, 1995; Seiler and Allander, 1993; Seiler and others, 1993; Seiler and Skorupa, 1995; Shamberger, 1973a; Smith and Klug, 1981a,b; Smith and Oremland, 1987; Steinberg and Oremland, 1990; Welch and Lico, 1986, 1988b; Welch and others, 1986, 1988, 1989; Welch and Plume, 1987; Welch and Preissler, 1986; Welch and Williams, 1987d; Whitehead and Feth, 1961; Zehr and others, 1987; Zohdy and others, 1977

Carson River Basin (Part 8)

August and others, 1992; August and Ruddy, 1992; Benson and others, 1995; Bevans and Kilroy, 1991; Blodgett and others, 1984; Bohman, 1994; Bohman and others, 1995; Brown and others, 1986; Cobb and others, 1990; Dettinger and Jeton, 1992; Frick, 1987; Garcia and Carman, 1986; Glancy and Katzer, 1976; Glancy and others, 1984; Jeton, 1991, 1992a,b; Jeton and Smith, 1993a,b; Katzer, 1983; Katzer and Bennett, 1980; Kilroy, 1994; Lamke and Moore, 1965; Lawrence, 1994; Lawrence and Bevans, 1994; Matthai, 1975; Meder, 1984; Nowlin and others, 1980; Oremland and others, 1995; Pumphrey, 1955; Pupacko, 1991a,b, 1992a, 1993a,b; Seiler and Allander, 1993; Smith and Reece, 1995; Thomas and others, 1990b, 1993; Trionfante and Peltz, 1994; U.S. Geological Survey, 1954; Van Denburgh, 1973; Welch and Lico, 1988a; Welch and others, 1989, 1990; Welch and Plume, 1987; Whitney, 1994; Young and Harris, 1966

Carson Valley (HA 105)

Arteaga, 1982; Ball and Nordstrom, 1985; Berger, 1987, 1990; Blodgett and others, 1984; Feth and others, 1964a,b; Garcia, 1989; Glancy and Katzer, 1975, 1976; Hammermeister and Walmsley, 1985; Harrill and others, 1983; Katzer, 1983; Katzer and Bennett, 1980; Lico, 1992a; Lico and Rowe, 1991; Loeltz and Malmberg, 1961; Maurer, 1984a, 1985, 1986, 1988a, 1990, 1992a,b; Maurer and Peltz, 1994; Meyer and Berger, 1992a,b; Nowlin and others, 1980; Oremland and others, 1995; Phoenix, 1949a; Piper, 1969; Prudic and Wood, 1995; Thodal, 1989, 1992a; Welch, 1994; Welch and others, 1986, 1988, 1989; Welch and Plume, 1987; Welch and Williams, 1987d,e

Cave Valley (HA 180)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger and others, 1995; Dettinger and Schaefer, 1995; Eakin, 1962f, 1966; Pupacko and others, 1989c; Savard and Crompton, 1993; Schaefer and Harrill, 1995; Snyder, 1963; Thomas and others, 1991; Welch and Williams, 1986d

Churchill Valley (HA 102)

Glancy and Katzer, 1976; Lico, 1992a; Maest and others, 1986; Nowlin and others, 1980; Oremland and others, 1995; Russell, 1885; Schaefer and Whitney, 1992; Seiler, 1993b; Thomas and Lawrence, 1994; Welch and others, 1989

Clayton Valley (HA 143)

Bedinger and others, 1989; Dole, 1912; Feth, 1966; Meinzer, 1917; Mendenhall, 1909; Prudic and others, 1995a; Rush, 1968b; Shamberger, 1976; Welch and Williams, 1987g

Clover Valley (Elko Co.; HA 177)

Eakin and others, 1951b; Loeltz and Malmberg, 1961; Olmsted and others, 1973; Prudic and others, 1995a; Snyder, 1963

Clover Valley (Lincoln Co.; HA 204)

Carpenter, 1915; Phoenix, 1948; Rush, 1964; Thomas and others, 1991; Westenburg, 1995

Clovers Area (HA 64)

Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Thomas and Lamke, 1962; Waring, 1918; Welch and Williams, 1987c

Coal Valley (HA 171)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger and others, 1995; Eakin, 1963b, 1966; Savard and Crompton, 1993; Schaefer and Harrill, 1995; Snyder, 1963; Williams and Bedinger, 1984

Cold Spring Valley (HA 100)

Rush and Glancy, 1967; Van Denburgh, 1981; Welch and Williams, 1987d

Coleman Valley (HA 11)

Sinclair, 1963a

Colorado River Basin (Part 13)

Gortsema, 1993; Graf, 1995; Hinderlider and others, 1905; Lamke and Moore, 1965; Owen-Joyce, 1987; Owen-Joyce and Wilson, 1994; Radtke and others, 1988; Westenburg, 1995; Wilson and Owen-Joyce, 1993, 1994

Colorado River Valley (HA 213)

Bentley, 1979; Glancy and Harmsen, 1975; Laney, 1979, 1982; Mendenhall, 1909; Metzger and Loeltz, 1973; Moosburner, 1981, 1988; Rush and Huxel, 1966; Welch and Williams, 1987j; Westenburg, 1995; Worts, 1963b

Columbus Salt Marsh Valley (HA 118)

Bedinger and others, 1989; Shamberger, 1978; Van Denburgh and Glancy, 1970; Williams and Bedinger, 1984

Continental Lake Valley (HA 2)

Garcia and Jacoboni, 1991; Olmsted and others, 1973; Sinclair, 1963d

Cowkick Valley (HA 126)

Cohen and Everett, 1963; Harrill and Hines, 1995; Olmsted and others, 1973; Shamberger, 1974

Coyote Spring Valley (HA 210)

Berger, 1992b; Berger and others, 1988, 1990; Bunch and Harrill, 1984; Carpenter, 1915; Dettinger, 1989a, 1992; Dettinger and others, 1995; Eakin, 1964, 1966; Mendenhall, 1909; Schaefer and Harrill, 1995; Westenburg, 1995

Crater Flat (HA 229)

Bedinger and others, 1989; Benson and others, 1983; Bentley and others, 1983; Coe and others, 1991; Dettinger, 1992; Dettinger and others, 1995; Eakin and others, 1963; Glancy, 1994; Hale and Westenburg, 1995; Kane and others, 1994; La Camera and Westenburg, 1994; Mendenhall, 1909; Pabst and others, 1993; Robison, 1984; Robison and others, 1988; Rush, 1971; Sass and Lachenbruch, 1982; Thordarson and Howells, 1987; Thordarson and others, 1984, 1985; Walker and Eakin, 1963; Whitfield and others, 1985

Crescent Valley (HA 54)

Eakin and Lamke, 1966; Loeltz and Malmberg, 1961; Olmsted and others, 1973; Thomas and Lamke, 1962; Welch and Williams, 1987c; Zones, 1961b

Dayton Valley (HA 103)

Arteaga, 1982; Carey, 1994; Dettinger, 1989b; Glancy and Katzer, 1976; Harrill and others, 1983, 1984, 1992; Harrill and Preissler, 1994; Lico, 1992a; Nowlin and others, 1980; Oremland and others, 1995; Russell, 1885; Schaefer, 1988a; Schaefer and others, 1984, 1986; Schaefer and Whitney, 1992; Shamberger, 1972a; Thomas and Lawrence, 1994; Welch and others, 1989; Welch and Plume, 1987; Welch and Williams, 1987d

Deep Creek Valley (HA 193)

Crittenden, 1963; Gates and Kruer, 1981; Gilbert, 1890; Harrill, 1971; Hood and Waddell, 1969; Snyder, 1963

Delamar Valley (HA 182)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Eakin, 1963a, 1966; Schaefer and Harrill, 1995; Snyder, 1963

Desert Valley (HA 31)

Berger, 1995; Berger and Andraski, 1991; Garcia and Jacoboni, 1991; Russell, 1885; Sinclair, 1962b

Devils Hole

Carson, 1979, 1980; Coplen and others, 1990, 1993; Dettinger, 1989a; Dettinger and others, 1995; Dudley and Larson, 1976; Edwards and others, 1993; Hale and Westenburg, 1995; Hanes, 1976; Hoffman, 1988; Johnson and others, 1989; La Camera and Westenburg, 1994; Larson, 1974a,b, 1975; Ludwig and others, 1992; Walker and Eakin, 1963; Westenburg, 1993; Winograd and others, 1988, 1992; Winograd and Szabo, 1986; Winograd and Thordarson, 1975; Worts, 1963a

Diamond Valley (HA 153)

Arteaga and others, 1995; Dettinger, 1989b; Eakin, 1962b; Fiero and others, 1974; Harrill, 1968; Harrill and Worts, 1968; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Pupacko and others, 1989c; Savard and Crompton, 1993; Schroder and others, 1971; Stuart, 1955; Welch and Williams, 1986a,c; Williams and Bedinger, 1984

Dixie Creek-Tenmile Creek Area (HA 48)

Eakin and Lamke, 1966; Rush and Everett, 1966a; Thomas and Lamke, 1962

Dixie Valley (HA 128)

Bell and Katzer, 1987; Cohen and Everett, 1963; Garcia and Jacoboni, 1991; Harrill and Hines, 1995; Harrill and others, 1983; Loeltz and Malmberg, 1961; Mariner and others, 1976; Olmsted and others, 1973; Robbins and others, 1985; Schaefer, 1983, 1988a; Schaefer and others, 1984; Shamberger, 1974; Welch and Williams, 1987c,d; Williams and Bedinger, 1984; Zones, 1957

Dodge Flat (HA 82)

Garcia and Jacoboni, 1991; La Camera and others, 1985; Russell, 1885; Van Denburgh and others, 1973; Whitehead and Feth, 1961

Dry Lake Valley (HA 181)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger and others, 1995; Eakin, 1963a, 1966; Savard and Crompton, 1993; Schaefer and Harrill, 1995; Snyder, 1963

Dry Valley (Washoe Co.; HA 19)

Benson and others, 1995; Glancy and Rush, 1968;
Handman and others, 1990

Dry Valley (Washoe Co.; HA 95)

Rush and Glancy, 1967

Dry Valley (Lincoln Co.; HA 198)

Carpenter, 1915; Phoenix, 1948; Rush, 1964; Snyder,
1963; Westenburg, 1995

Duck Lake Valley (HA 16)

Dettinger, 1989b; Garcia and Jacoboni, 1991; Sinclair,
1963b

Eagle Valley (Carson City; HA 104)

Arteaga, 1982; Arteaga and Durbin, 1978; Feth and
others, 1964a,b; Fischer, 1988; Glancy and Katzer, 1976;
Katzer, 1980, 1986a; Katzer and Schroer, 1981, 1986;
Lico, 1992a; Maurer, 1984b, 1988b; Maurer and Fischer,
1988; Maurer and Myers, 1988; Maurer and Timian-
Palmer, 1989; Nowlin and others, 1980; Oremland and
others, 1995; Prudic and others, 1995b; Ronan and
others, 1995; Shamberger, 1972a; Welch, 1994; Welch
and others, 1989; Welch and Plume, 1987; Welch and
Williams, 1987d; Worts and Malmberg, 1966

Eagle Valley (Lander Co.; HA 200)

Carpenter, 1915; Phoenix, 1948; Rush, 1964; Snyder,
1963; Westenburg, 1995

Eastgate Valley Area (HA 127)

Cohen and Everett, 1963; Harrill and Hines, 1995;
Olmsted and others, 1973

East Walker Area (HA 109)

Glancy, 1971b; Whitehead and Feth, 1961

Edwards Creek Valley (HA 133)

Everett, 1964a; Williams and Bedinger, 1984

Eldorado Valley (HA 167)

Bedinger and others, 1989; Dettinger and others, 1995;
Mendenhall, 1909; Rush and Huxel, 1966; Welch and
Williams, 1987j

Elko Segment (HA 49)

Berger and others, 1990; Eakin and Lamke, 1966; Eakin
and others, 1951a; Loeltz and Malmberg, 1961; Olmsted
and others, 1973; Schaefer, 1988b; Thomas and Lamke,
1962; Welch and Williams, 1986b

Emigrant Valley (HA 158)

Bedinger and others, 1989; Dettinger, 1992; Dettinger
and others, 1995; Eakin and others, 1963; Mendenhall,
1909; Rush, 1971; Williams and Bedinger, 1984;
Winograd and Thordarson, 1975

Escalante Desert (HA 197)

Glancy and Van Denburgh, 1969; Snyder, 1963

Fairview Valley (HA 124)

Cohen and Everett, 1963; Harrill and Hines, 1995;
Olmsted and others, 1973; Schaefer, 1988a; Schaefer and
others, 1984; Shamberger, 1973b; Welch and Williams,
1987d; Zones, 1957

Fernley Area (HA 76)

Garcia and Jacoboni, 1991; Hallock and Hallock, 1993;
Lico, 1989, 1992a,b; Nowlin and others, 1980; Rowe and
others, 1991; Russell, 1885; Sinclair and Loeltz, 1963;
Van Denburgh and Arteaga, 1985; Van Denburgh and
others, 1973; Welch and Williams, 1987d; Whitehead
and Feth, 1961

Fireball Valley (HA 77)

Garcia and Jacoboni, 1991; Harrill, 1970b; Olmsted and
others, 1973

Fish Lake Valley (HA 117)

Bedinger and others, 1989; Dettinger, 1989b; Eakin,
1950; Loeltz and Malmberg, 1961; Mendenhall, 1909;
Rush and Katzer, 1973; Shamberger, 1976, 1978; Smith
and others, 1990; Welch and Williams, 1987g

Fortymile Canyon (HA 227)

Benson and others, 1983; Christensen and Spahr,
1980; Coe and others, 1991; Craig and Robison, 1984;
Czarnecki, 1991; Dettinger, 1992; Dettinger and others,
1995; Eakin and others, 1963; Erickson and Waddell,
1985; Glancy, 1994; Hale and Westenburg, 1995; Kane
and others, 1994; La Camera and Westenburg, 1994;
Lahoud and others, 1984; Lobmeyer and others, 1983;
Mendenhall, 1909; Pabst and others, 1993; Reiner and
others, 1995; Robie and others, 1995; Robison, 1984;
Robison and others, 1988; Rush, 1971; Rush and others,
1983, 1984; Sass and Lachenbruch, 1982; Savard, 1994;
Squires and Young, 1984; Thordarson, 1983; Waddell,
1985; Walker and Eakin, 1963; Welch and Williams,
1987g,i; White and Chuma, 1987; Whitfield and others,
1984, 1985; Winograd and Thordarson, 1975; Young,
1972

Frenchman Flat (HA 160)

Bedinger and others, 1989; Carpenter, 1915; Dettinger, 1989a, 1992; Dettinger and others, 1995; Eakin and others, 1963; Kane and others, 1994; Mendenhall, 1909; Pabst and others, 1993; Reiner and others, 1995; Robie and others, 1995; Rush, 1971; Sass and Lachenbruch, 1982; Winograd and Thordarson, 1975

Gabbs Valley (HA 122)

Dettinger, 1989b; Eakin, 1962d; Shamberger, 1972b

Garden Valley (HA 172)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger and others, 1995; Dettinger and Schaefer, 1995; Eakin, 1963b, 1966; Savard and Crompton, 1993; Schaefer and Harrill, 1995; Snyder, 1963

Garfield Flat (HA 120)

Van Denburgh and Glancy, 1970; Williams and Bedinger, 1984

Garnet Valley (Dry Lake Valley; HA 216)

Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Mendenhall, 1909; Rush, 1968d; Schaefer and Harrill, 1995; Westernburg, 1995

Gold Butte Area (HA 223)

Bales and Laney, 1992; Carpenter, 1915; Harbeck and others, 1958; Mendenhall, 1909; Rush, 1968d; Smith and others, 1960; Westernburg, 1995

Gold Flat (HA 147)

Blankennagel and Weir, 1973; Dettinger and others, 1995; Eakin and others, 1963; Mendenhall, 1909; Rush, 1971; Williams and Bedinger, 1984

Goose Creek Area (HA 41)

Laird, 1964; Moore and Eakin, 1968

Goshute Valley (HA 187)

Eakin and others, 1951a; Loeltz and Malmberg, 1961; Snyder, 1963

Granite Basin (HA 23)

Garcia and Jacoboni, 1991; Russell, 1885; Sinclair, 1963c; Welch and Preissler, 1990

Granite Springs Valley (HA 78)

Garcia and Jacoboni, 1991; Harrill, 1970b; Shamberger, 1972c; Welch and Williams, 1987b; Williams and Bedinger, 1984

Grapevine Canyon (HA 231)

Dettinger and others, 1995; Mendenhall, 1909; Rush, 1968b

Grass Valley (Pershing Co.; HA 71)

Cohen, 1962c, 1963a, 1964a; Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Harrill and Worts, 1968; Loeltz and Malmberg, 1961; Olmsted and others, 1973, 1975; Robinson and others, 1948; Russell, 1885; Sass and others, 1976; Welch and others, 1981, 1983; Welch and Williams, 1987c

Grass Valley (Lander Co.; HA 138)

Everett and Rush, 1966; Fiero and others, 1974; Loeltz and Malmberg, 1961; Welch and Williams, 1986c

Greasewood Basin (HA 224)

Bales and Laney, 1992; Mendenhall, 1909; Rush, 1968d; Westernburg, 1995

Great Salt Lake Desert (HA 192)

Bedinger and others, 1989; Benson and others, 1990, 1992; Crittenden, 1963; Gates and Kruer, 1981; Gilbert, 1890; Harrill, 1971; Prudic and others, 1995a; Stevens and Hood, 1973

Gridley Lake Valley (HA 3)

Garcia and Jacoboni, 1991; Sinclair, 1963d

Groom Lake Valley (HA 158A)

Bedinger and others, 1989; Dettinger and others, 1995; Mendenhall, 1909; Rush, 1971; Williams and Bedinger, 1984

Grouse Creek Valley (HA 190)

Hood and Price, 1970; Rush, 1968c

Guano Valley (HA 6)

Sinclair, 1963a

Hamlin Valley (HA 196)

Crittenden, 1963; Gates and Kruer, 1981; Gilbert, 1890; Hood and Rush, 1965; Pupacko and others, 1989c; Snyder, 1963; Welch and Williams, 1986d

Hardscrabble Area (HA 68)

Eakin and Lamke, 1966; Garcia and Jacoboni, 1991

Hidden Valley (north; HA 217)

Berger, 1992b; Berger and others, 1988; Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Mendenhall, 1909; Rush, 1968d; Schaefer and Harrill, 1995; Westernburg, 1995

Hidden Valley (south; HA 166)

Dettinger, 1989a, 1992; Dettinger and others, 1995;
Glancy, 1968a; Mendenhall, 1909

High Rock Lake Valley (HA 25)

Garcia and Jacoboni, 1991; Sinclair, 1963c; Welch and
Preissler, 1990

Honey Lake Valley (HA 97)

Benson and others, 1995; Benson and Paillet, 1989;
Benson and Thompson, 1987a; Handman, 1988, 1990,
1992; Handman and others, 1990; Rockwell, 1993; Rush
and Glancy, 1967; Russell, 1885; Young and Harris,
1966

Hot Creek Valley (HA 156)

Bunch and Harrill, 1984; Dinwiddie and Schroder, 1971;
Eakin and Maxey, 1951; Fiero and others, 1974; Loeltz
and Malmberg, 1961; Olmsted and others, 1973; Prudic
and others, 1995a; Reiner and others, 1995; Robie and
others, 1995; Rush and Everett, 1966b; Schroder and
others, 1971; Welch and Williams, 1987f; Williams and
Bedinger, 1984

Hualapai Flat (HA 24)

Garcia and Jacoboni, 1991; Harrill, 1969; Harrill and
Worts, 1968; Olmsted and others, 1973, 1975; Russell,
1885; Sinclair, 1962c; Welch and Preissler, 1990; Welch
and Williams, 1987b

Humboldt River Basin (Part 4)

Benson and others, 1995; Cohen, 1961b,c,d, 1962c,e,
1963a,b, 1964b, 1966; Cohen and others, 1965;
Crompton, 1995; Eakin, 1962a; Eakin and Lamke, 1966;
Lamke and Moore, 1965; Prudic and others, 1995a;
Robinson and others, 1948; Rush and Rice, 1972; Seiler,
1995; Seiler and others, 1993; Seiler and Skorupa, 1995;
Waring, 1918

Huntington Valley (HA 47)

Eakin and Lamke, 1966; Loeltz and Malmberg, 1961;
Pupacko and others, 1989c; Rush and Everett, 1966a;
Snyder, 1963; Thomas and Lamke, 1962; Welch and
Williams, 1986b

Huntoon Valley (HA 113)

Van Denburgh and Glancy, 1970; Williams and
Bedinger, 1984

Imlay Area (HA 72)

Duffrin and others, 1985; Eakin, 1962a; Eakin and
Lamke, 1966; Garcia and Jacoboni, 1991; Olmsted and
Van Denburgh, 1974; Russell, 1885; Schaefer, 1986;
Thomas and Lamke, 1962

Independence Valley (Pequop Valley; HA 36)

Dettinger, 1989b; Eakin, 1962c; Eakin and others,
1951b; Laird, 1964; Loeltz and Malmberg, 1961; Moore
and Eakin, 1968; Prudic and others, 1995a; Riggs and
Moore, 1965; Thomas and Lamke, 1962; Welch and
Williams, 1987a; Young and Lewis, 1982

Indian Springs Valley (HA 161)

Bedinger and others, 1989; Carpenter, 1915; Dettinger,
1989a, 1992; Dettinger and others, 1995; Eakin and
others, 1963; Maxey and Jameson, 1946, 1948; Maxey
and Robinson, 1947; Mendenhall, 1909; Reiner and
others, 1995; Robie and others, 1995; Rush, 1971;
Thomas and others, 1991; Winograd and Thordarson,
1975

Ione Valley (HA 135)

Everett and Rush, 1964

Ivanpah Valley (HA 164)

Dettinger, 1992; Dettinger and others, 1995; Glancy,
1968a; Mendenhall, 1909; Waring, 1921

Jackass Flats (HA 227A)

Benson and others, 1983; Christensen and Spahr,
1980; Coe and others, 1991; Craig and Robison, 1984;
Dettinger, 1992; Dettinger and others, 1995; Eakin and
others, 1963; Erickson and Waddell, 1985; Glancy, 1994;
Hale and Westenburg, 1995; Kane and others, 1994;
La Camera and Westenburg, 1994; Lahoud and others,
1984; Lobmeyer and others, 1983; Mendenhall, 1909;
Pabst and others, 1993; Robison, 1984; Robison and
others, 1988; Rush, 1971; Rush and others, 1973, 1984;
Sass and Lachenbruch, 1982; Squires and Young, 1984;
Thordarson, 1983; Walker and Eakin, 1963; Welch and
Williams, 1987i; Whitfield and others, 1984, 1985;
Winograd and Thordarson, 1975; Young, 1972

Jakes Valley (HA 174)

Bunch and Harrill, 1984; Dettinger and others, 1995;
Eakin, 1966; Loeltz and Malmberg, 1961; Plume, 1988b;
Prudic and others, 1995a; Pupacko and others, 1989c;
Savard and Crompton, 1993; Snyder, 1963; Williams
and Bedinger, 1984

Jarbridge River Area (HA 39)

Laird, 1964; Moore and Eakin, 1968; Riggs and Moore, 1965; Young and Lewis, 1982

Jean Lake Valley (HA 165)

Dettinger, 1992; Glancy, 1968a; Mendenhall, 1909

Jersey Valley (HA 132)

Cohen and Everett, 1963; Garcia and Jacoboni, 1991; Harrill and Hines, 1995; Olmsted and others, 1973; Welch and Williams, 1987c

Kane Springs Valley (HA 206)

Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Eakin, 1964, 1966; Welch and Williams, 1987h; Westenburg, 1995

Kawich Valley (HA 157)

Blankennagel and Weir, 1973; Dettinger and others, 1995; Eakin and Maxey, 1951; Eakin and others, 1963; Mendenhall, 1909; Prudic and others, 1995a; Rush, 1971; Welch and Williams, 1987g; Williams and Bedinger, 1984

Kelly Creek Area (HA 66)

Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Loeltz and Malmberg, 1961; Thomas and Lamke, 1962; Welch and Williams, 1987a,c

Kings River Valley (HA 30)

Garcia and Jacoboni, 1991; Harrill and Worts, 1968; Loeltz and Malmberg, 1961; Malmberg and Worts, 1966; Nichols, 1994; Russell, 1885; Zones, 1963

Kobeh Valley (HA 139)

Bunch and Harrill, 1984; Fiero and others, 1974; Loeltz and Malmberg, 1961; Rush and Everett, 1964; Schroder and others, 1971; Welch and Williams, 1986a

Kumiva Valley (HA 79)

Garcia and Jacoboni, 1991; Harrill, 1970b; Williams and Bedinger, 1984

Lahontan Reservoir

Katzer, 1971; Lamke and Moore, 1965

Lake Lahontan (of Pleistocene age)

Benson, 1978, 1991, 1993; Benson and Miffilin, 1986; Benson and others, 1990, 1992; Cohen, 1962e; Hostetler and Benson, 1990b; Morrison, 1961; Russell, 1885; Williams and Bedinger, 1984

Lake Mead

Dettinger and others, 1995; Graf, 1995; Harbeck and others, 1958; Lamke and Moore, 1965; Moosburner, 1981, 1988; Rush, 1968d; Smith and others, 1960; Thomas, 1954

Lake Subarea (Walker Lake; HA 110B)

Benson, 1988; Everett and Rush, 1967; Robinson, 1951; Rush, 1970; Schaefer, 1980; Thomas, 1995; U.S. Geological Survey, 1954; Whitehead and Feth, 1961

Lake Tahoe Basin (HA 90)

Bell and others, 1989; Blodgett and others, 1984; Cartier and others, 1992, 1994, 1995; Crippen and Pavelka, 1970; Feth and others, 1964a,b; Garcia, 1988; Glancy, 1969, 1971a, 1973, 1976a,b, 1977, 1978; Harrill, 1977a, 1986c; Jorgensen and others, 1978; Katzer and Glancy, 1978, 1986; La Camera and Browning, 1988; La Camera and others, 1985; Lamke and Moore, 1965; Lico, 1992a; Nowlin and others, 1980; Peltz and others, 1994c; Pupacko, 1992b; Rowe, 1993, 1994, 1995; Rush, 1973a; Rush and others, 1972; Shamberger, 1972a; Thodal, 1992b, 1995; U.S. Geological Survey, 1954; Welch and Williams, 1987d; Young and Harris, 1966

Lake Valley (HA 183)

Bunch and Harrill, 1984; Carpenter, 1915; Loeltz and Malmberg, 1961; Pupacko and others, 1989c; Rush and Eakin, 1963; Savard and Crompton, 1993; Snyder, 1963; Thomas and others, 1991; Welch and Williams, 1986d, 1987h

Lamoille Valley (HA 45)

Eakin and Lamke, 1966; Thomas and Lamke, 1962

Las Vegas Valley (HA 212)

Bedinger and others, 1989; Bevans and Kilroy, 1991; Blackstun, 1991; Blackstun and Cox, 1990; Burbey, 1987, 1991, 1993b, 1995b; Carlsen and others, 1991; Carpenter, 1915; Dettinger, 1987a, 1989a, 1992; Dettinger and others, 1995; Eakin and others, 1963; Emme and Prudic, 1991; Glancy and Whitney, 1986, 1989; Gortsema, 1993; Harrill, 1972, 1973b, 1974, 1976a,b, 1977b; Harrill and Katzer, 1980; Harrill and others, 1983; Harrill and Worts, 1968; Holzer, 1978; Katzer, 1977, 1982, 1986b,c; Katzer and others, 1976, 1985; Katzer and Squires, 1984; Kilroy, 1994; Lawrence, 1994; Livingston, 1941; Loeltz, 1952, 1963a; Loeltz and Malmberg, 1961; Malmberg, 1961, 1964, 1965; Maurer, 1989; Maxey and Jameson, 1945, 1946, 1948; Maxey and Robinson, 1947; Mendenhall, 1909; Morgan and Dettinger, 1994; Nichols and Davis, 1979; Plume, 1985b, 1989; Prudic and others, 1995a; Robinson and others, 1947; Rush, 1971; Schaefer and others, 1992; Thomas and others, 1991; Van Denburgh and others,

1982; Westenburg, 1995; Whitney and others, 1988; Winograd, 1963; Winograd and Thordarson, 1975; Wood, 1979, 1988a,b, 1991a,b

Lemmon Valley (HA 92)

Dettinger, 1989b; Harrill, 1973a; Lico, 1992a; Rush and Glancy, 1967; Schaefer and Maurer, 1980a, 1981a,b; Williams and Bedinger, 1984

Lida Valley (HA 144)

Mendenhall, 1909; Rush, 1968b; Shamberger, 1982

Little Fish Lake Valley (HA 150)

Dinwiddie and Schroder, 1971; Fiero and others, 1974; Olmsted and others, 1973; Rush and Everett, 1966b; Schroder and others, 1971; Welch and Williams, 1986c; Williams and Bedinger, 1984

Little Humboldt Valley (HA 67)

Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Welch and Williams, 1987a

Little Owyhee River Area (HA 34)

Garcia and Jacoboni, 1991; Laird, 1964; Moore and Eakin, 1968; Young and Lewis, 1982

Little Smoky Valley (HA 155)

Bunch and Harrill, 1984; Dinwiddie and Schroder, 1971; Olmsted and others, 1973; Prudic and others, 1995a; Pupacko and others, 1989c; Rush and Everett, 1966b; Savard and Crompton, 1993; Snyder, 1963

Long Valley (White Pine Co.; HA 175)

Bunch and Harrill, 1984; Dettinger and others, 1995; Eakin, 1961b, 1966; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Pupacko and others, 1989c; Snyder, 1963

Long Valley (Washoe Co.; HA 9)

Loeltz and Malmberg, 1961; Sinclair, 1963a

Lovelock Valley (HA 73)

Duffrin and others, 1985; Eakin and Lamke, 1966; Everett and Rush, 1965; Garcia and Jacoboni, 1991; Loeltz and Malmberg, 1961; Robinson and Fredericks, 1946; Russell, 1885; Schaefer, 1986; Seiler and others, 1993; Shamberger, 1973a; Welch and Williams, 1987b

Lower Meadow Valley Wash (HA 205)

Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Dettinger and Schaefer, 1995; Gortsema, 1993; Mendenhall, 1909; Phoenix, 1948; Rush, 1964; Snyder, 1963; Thomas and others, 1991; Welch and Williams, 1987h; Westenburg, 1995

Lower Moapa Valley (HA 220)

Carpenter, 1915; Dettinger, 1992; Gortsema, 1993; Loeltz and Malmberg, 1961; Mendenhall, 1909; Rush, 1968d; Schaefer, 1993b; Westenburg, 1995

Lower Reese River Valley (HA 59)

Eakin and Lamke, 1966; Olmsted and others, 1973; Thomas and Lamke, 1962; Waring, 1918

Macy Flat (HA 10)

Sinclair, 1963a

Maggie Creek Area (HA 51)

Eakin and Lamke, 1966; Johnson, 1995; Loeltz and Malmberg, 1961; Plume, 1995; Plume and Stone, 1992; Thomas and Lamke, 1962

Marlette Lake

Rush and others, 1972

Marys Creek Area (HA 52)

Eakin and Lamke, 1966; Lico, 1992a; Plume, 1995; Thomas and Lamke, 1962

Marys River Area (HA 42)

Eakin and Lamke, 1966; Loeltz and Malmberg, 1961; Riggs and Moore, 1965; Thomas and Lamke, 1962

Mason Valley (HA 108)

Huxel and Harris, 1969; Loeltz and Malmberg, 1961; Olmsted and others, 1973; Russell, 1885; Seitz and others, 1982; Welch and Williams, 1987d

Massacre Lake Valley (HA 8)

Sinclair, 1963a

Meadow Valley Wash. See Lower Meadow Valley Wash

Mercury Valley (HA 225)

Carpenter, 1915; Dettinger, 1989a, 1992; Hale and Westenburg, 1995; Kane and others, 1994; La Camera and Westenburg, 1994; Mendenhall, 1909; Pahst and others, 1993; Reiner and others, 1995; Robie and others, 1995; Rush, 1971; Walker and Eakin, 1963; Welch and Williams, 1987i; Winograd and Thordarson, 1975

Mesquite Valley (Sandy Valley; HA 163)

Dettinger, 1989b, 1992; Dettinger and others, 1995; Glancy, 1968a; Mendenhall, 1909; Waring, 1921

Middle Reese River Valley (HA 58)

Crosthwaite, 1963; Eakin and Lamke, 1966; Waring, 1918; Welch and Williams, 1987c

Monitor Valley (HA 140)

Bunch and Harrill, 1984; Dinwiddie and Schroder, 1971; Fiero and others, 1974; Loeltz and Malmberg, 1961; Olmsted and others, 1973; Rush and Everett, 1964; Schroder and others, 1971; Welch and Williams, 1986a, 1987f; Williams and Bedinger, 1984

Mono Valley (HA 112)

Van Denburgh and Glancy, 1970

Monte Cristo Valley (HA 136)

Van Denburgh and Glancy, 1970; Williams and Bedinger, 1984

Mosquito Lake Valley (HA 12)

Sinclair, 1963a

Muddy River Springs Area (Upper Moapa Valley; HA 219)

Berger, 1992b; Berger and others, 1988; Bunch and Harrill, 1984; Carpenter, 1915; Dettinger, 1989a, 1992; Dettinger and others, 1995; Eakin, 1964, 1966; Eakin and Moore, 1964; Gortsema, 1993; Mendenhall, 1909; Pupacko and others, 1989c; Schaefer, 1993b; Thomas and others, 1991; Westenburg, 1995

Mud Meadow (HA 26)

Garcia and Jacoboni, 1991; Olmsted and others, 1973, 1975; Russell, 1885; Sinclair, 1963c; Welch and Preissler, 1990

Nevada

Central: Larson and Weir, 1969; Mariner and others, 1974, 1975

East-central: Savard, 1988, 1989

Eastern: Dettinger, 1988; Dettinger and others, 1990; Plume, 1984, 1985a; Thomas and others, 1990a; U.S. Department of the Interior, 1985; Welch and Thomas, 1984

North-central: Nichols, 1988

Northeastern: Haines and others, 1949

Northern: Hose and Taylor, 1974; Mariner and others, 1974, 1975, 1983; Nichols, 1993

Northwestern: Berger, 1992a

South-central: Eakin and Winograd, 1965; Grove and others, 1969; Winograd and Eakin, 1965

Southeastern: Brown, 1976; Eakin, 1965a,b

Southern: Dettinger, 1987b; Milne and others, 1987; Robertson, 1991; Thomas, 1988, 1993; U.S. Department of the Interior, 1985

Statewide: Arteaga, 1990; Bedinger and others, 1983, 1984a,b; Benson, 1978; Bostic and others, 1991; Burbey and Prudic, 1985; Burkham, 1988; Ca'dinalli and others, 1968; Chandler, 1905; Crompton and others, 1989; Crompton and Swartwood, 1990; Dettinger, 1990; Dettinger and Van Denburgh, 1988; Eakin and others, 1976; Emmett and others, 1994; Everett, 1964b; Feth, 1961, 1965, 1966; Feth and Barnes, 1979; Feth and others, 1965; Flagg and others, 1985; Foglesong, 1991, 1993, 1995; Frick and Carman, 1990; Frisbie and others, 1983, 1985a,b,c; Gale, 1914; Garcia and others, 1992; Harrill, 1984, 1986a; Harrill and others, 1983, 1988a,b; Harrill and Worts, 1968; Hess and others, 1993; Hidaka, 1977; Katzer and others, 1984b; Kilroy, 1989; Lamke, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 1971; Lamke and Moore, 1965; McBeth, 1986; Mifflin and Harrill, 1981; Moore, 1965, 1970, 1974, 1976; Moosburner, 1976, 1977, 1978, 1986; Moosburner and Harrill, 1985; Moosburner and others, 1991; Morros and Shamberger, 1989; Newell, 1891; Nichols, 1992c; Nowlin, 1986; Olmsted, 1977; Olmsted and others, 1986; Planert and Williams, 1995; Plume and Carlton, 1988; Pupacko and others, 1988, 1989a,b, 1990; Rantz and Eakin, 1972; Rantz and Moore, 1965; Robinson, 1949, 1952a; Rush, 1968a, 1973b; 1974; Rush and others, 1971; Schaefer, 1993a; Schroer and Moosburner, 1978; Scott and others, 1971; Seiler, 1993a; Shamberger, 1962, 1991; Smales and Harrill, 1971; Snyder and others, 1964; Stabler, 1894; Thomas, 1964; Thomas and Hoffman, 1988; Thomas and others, 1986; Thompson and Chappell, 1984; U.S. Geological Survey, 1954, 1962, 1962-65, 1966-75, 1967, 1971, 1975, 1976-82, 1979, 1984, 1995; Vasey and others, 1972

West-central: Hughes and others, 1989; Lawrence and Whitney, 1990; Lico and others, 1989a; Olmsted and Ingebritsen, 1986; Olmsted and others, 1981

Western: Glancy, 1984b; Welch and Olmsted, 1984

Nevada Test Site

Cole and others, 1991; Arteaga and others, 1991; Bedinger and others, 1989; Blankennagel and Weir, 1973; Carman, 1994; Christensen and Spahr, 1980; Claassen, 1973; Clebsch, 1961; Dettinger, 1989a; Doty and Thordarson, 1983; Eakin and others, 1963; Glanzman, 1992; Hale and others, 1995; Hale and Trudeau, 1993; Hawkins and others, 1990, 1993; Hoover and Trudeau, 1987; Kane and others, 1994; Lobmeyer and others, 1983; Pabst and others, 1993; Prudic and others, 1995a; Purtyman and others, 1969; Reiner and others, 1995; Robie and others, 1995; Rush, 1971; Sass and Lachenbruch, 1982; Scott, 1990, 1991; Scott and Morgan, 1992; Squires and Young, 1984; Thordarson and Robinson, 1971; Unger, 1995; Wardell, 1982; Winograd, 1962, 1963, 1970; Winograd and Doty, 1980; Winograd and Thordarson, 1968, 1975; Wood, 1992; Young, 1972

Newark Valley (HA 154)

Bunch and Harrill, 1984; Eakin, 1960; Loeltz and Malmberg, 1961; Plume, 1988b; Prudic and others, 1995a; Pupacko and others, 1989c; Savard and Crompton, 1993; Snyder, 1963; Welch and Williams, 1986c; Williams and Bedinger, 1984

Newcomb Lake Valley (HA 96)

Rush and Glancy, 1967

North Fork Area (HA 44)

Eakin and Lamke, 1966; Thomas and Lamke, 1962

Northern Part (Big Smoky Valley; HA 137B)

Meinzer, 1916, 1917

Oasis Valley (HA 228)

Blankennagel and Weir, 1973; Dettinger and others, 1995; Eakin and others, 1963; Malmberg and Eakin, 1962, 1964; Mendenhall, 1909; Reiner and others, 1995; Robie and others, 1995; Welch and Williams, 1987i; White, 1979; White and Chuma, 1987; Winograd and Thordarson, 1975

Oriental Wash (HA 232)

Mendenhall, 1909; Rush, 1968b; Shamberger, 1982

Orovada Subarea (HA 33A)

Garcia and Jacoboni, 1991; Huxel and others, 1966; Loeltz, 1963b; Visser, 1957

Owyhee River Area (HA 37)

Laird, 1964; Moore and Eakin, 1968; Riggs and Moore, 1965; Thomas and Lamke, 1962; Young and Lewis, 1982

Pahrnagat Valley (HA 209)

Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Eakin, 1963c, 1966; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Pupacko and others, 1989c; Savard and Crompton, 1993; Snyder, 1963; Thomas and others, 1991; Welch and Williams, 1987h; Westernburg, 1995; Winograd and Thordarson, 1975

Pahroc Valley (HA 208)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger and others, 1995; Eakin, 1963c, 1966; Schaefer and Harrill, 1995; Snyder, 1963; Westernburg, 1995

Pahrump Valley (HA 162)

Bedinger and others, 1989; Carpenter, 1915; Dettinger, 1989a, 1992; Dettinger and others, 1995; Harrill, 1986b; Harrill and Worts, 1968; Hughes, 1966; Loeltz and Malmberg, 1961; Malmberg, 1967; Maxey and Jameson, 1948; Maxey and Robinson, 1947; Mendenhall, 1909; Peltz and others, 1994a,b; Prudic and others, 1995a; Robinson and others, 1947; Thomas and others, 1991; Waring, 1921; Williams and Bedinger, 1984; Winograd and Thordarson, 1975

Painters Flat (HA 18)

Glancy and Rush, 1968

Panaca Valley (HA 203)

Carpenter, 1915; Phoenix, 1948; Pupacko and others, 1989c; Rush, 1964; Snyder, 1963; Thomas and others, 1991; Westernburg, 1995

Papoose Lake Valley (HA 158B)

Rush, 1971

Paradise Valley (HA 69)

Cohen, 1962c, 1963a; Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Harrill and Moore, 1970; Harrill and others, 1983; Loeltz and others, 1949; Robbins and others, 1985; Russell, 1885; Schaefer, 1988a; Schaefer and others, 1986; Welch and Williams, 1987a

Patterson Valley (HA 202)

Carpenter, 1915; Phoenix, 1948; Rush, 1964; Savard and Crompton, 1993; Schaefer and Harrill, 1995; Snyder, 1963; Thomas and others, 1991; Westernburg, 1995

Penoyer Valley (Sand Spring Valley; HA 170)

Bunch and Harrill, 1984; Dettinger, 1989b; Dettinger and others, 1995; Eakin and others, 1951b, 1963; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Snyder, 1963; Van Denburgh and Rush, 1974; Welch and Williams, 1987h

Pequop Valley. See Independence Valley**Pilgrim Flat (HA 17)**

Glancy and Rush, 1968

Pilot Creek Valley (HA 191)

Benson and others, 1990, 1992; Crittenden, 1963; Gilbert, 1890; Harrill, 1971; Prudic and others, 1995a

Pine Forest Valley (HA 29)

Garcia and Jacoboni, 1991; Olmsted and others, 1973; Russell, 1885; Sinclair, 1962a

Pine Valley (HA 53)

Eakin, 1961a; Eakin and Lamke, 1966; Thomas and Lamke, 1962; Welch and Williams, 1987c

Piute Valley (HA 214)

Mendenhall, 1909; Rush and Huxel, 1966; Westenburg, 1995

Pleasant Valley (Washoe Co.; HA 88)

Lico, 1992a; Olmsted and others, 1973; Van Denburgh and others, 1973; Welch and Williams, 1987d

Pleasant Valley (Pershing Co.; HA 130)

Cohen and Everett, 1963; Garcia and Jacoboni, 1991; Gates and Kruer, 1981; Gilbert, 1890; Harrill and Hines, 1995; Olmsted and others, 1973; Welch and Williams, 1987c

Pleasant Valley (White Pine Co.; HA 194)

Crittenden, 1963; Hood and Rush, 1965; Pupacko and others, 1989c; Snyder, 1963

Pueblo Valley (HA 1)

Garcia and Jacoboni, 1991; Olmsted and others, 1973; Sinclair, 1963d

Pumpnickel Valley (HA 65)

Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Thomas and Lamke, 1962; Welch and Williams, 1987c

Pyramid Lake Valley (HA 81)

Benson, 1994a,b; Benson and others, 1995; Benson and Paillet, 1989; Benson and Thompson, 1987a; Benson and White, 1994; Blodgett and others, 1984; Garcia and Jacoboni, 1991; Harris, 1970; Hostetler and Benson, 1990a, 1994; La Camera and others, 1985; Lamke and Moore, 1965; Lao and Benson, 1988; Nowlin and others, 1980; Russell, 1885; Smith, 1980; Thompson and others, 1986; Van Denburgh and others, 1973; Welch and Williams, 1987b,d; Whitehead and Feth, 1961; Williams and Bedinger, 1984

Queen Valley (HA 116)

Van Denburgh and Glancy, 1970

Quinn River Valley (HA 33)

Arteaga, 1978; Garcia and Jacoboni, 1991; Harrill and Worts, 1968; Huxel and others, 1966; Loeltz, 1963b; Loeltz and Malmberg, 1961; Russell, 1885; Visher, 1957; Welch and Williams, 1987a

Railroad Valley (HA 173)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger, 1989a,b; Dettinger and Schaefer, 1995; Eakin and others, 1951b; Fiero and others, 1974; Larson and Weir, 1969; Loeltz and Malmberg, 1961; Nichols, 1994; Olmsted and others, 1973; Plume, 1988b; Prudic and others, 1995a; Pupacko and others, 1989c; Savard and Crompton, 1993; Schaefer and Harrill, 1995; Schroder and others, 1971; Snyder, 1963; Van Denburgh and Russell, 1974; Welch and Williams, 1986d, 1987f; Williams and Bedinger, 1984

Ralston Valley (HA 141)

Bunch and Harrill, 1984; Dettinger and others, 1995; Eakin, 1962e; Eakin and others, 1963; Fiero and others, 1974; Loeltz and Malmberg, 1961; Rush, 1968b; Schroder and others, 1971; Welch and Williams, 1987f

Rawhide Flats (HA 123)

Everett and Rush, 1967; Olmsted and others, 1973; Russell, 1885; Schaefer, 1980

Red Rock Valley (HA 99)

Rush and Glancy, 1967

Reese River Valley. See also Lower, Middle, and Upper Reese River Valleys

Dettinger, 1989b; Eakin and others, 1965; Loeltz and Malmberg, 1961; Waring, 1918

Rhodes Salt Marsh Valley (HA 119)

Shamberger, 1978; Van Denburgh and Glancy, 1970; Williams and Bedinger, 1984

Rock Valley (HA 226)

Dettinger, 1992; Eakin and others, 1963; Hale and Westenburg, 1995; Kane and others, 1994; La Camera and Westenburg, 1994; Mendenhall, 1909; Pabst and others, 1993; Rush, 1971; Sass and Lachenbruch, 1982; Walker and Eakin, 1963; Welch and Williams, 1987i

Rock Creek Valley (HA 62)

Eakin and Lamke, 1966

Rose Valley (HA 199)

Carpenter, 1915; Phoenix, 1948; Rush, 1964; Snyder, 1963; Westenburg, 1995

Ruby Valley (HA 176)

Eakin and Maxey, 1951; Loeltz and Malmberg, 1961; Olmsted and others, 1973, 1975; Prudic and others, 1995a; Pupacko and others, 1989c; Savard and Crompton, 1993; Snyder, 1963; Welch and Williams, 1986b

Rye Patch Reservoir

Eakin, 1962a; Lamke and Moore, 1965; Rush and Rice, 1972

Sage Hen Valley (HA 5)

Sinclair, 1963a

Salmon Falls Creek Area (HA 40)

Crosthwaite, 1969; Laird, 1964; Moore and Eakin, 1968; Riggs and Moore, 1965; Young and Lewis, 1982

Sand Spring Valley. See Penoyer Valley**Sandy Valley. See Mesquite Valley****San Emidio Desert (HA 22)**

Garcia and Jacoboni, 1991; Glancy and Rush, 1968; Mariner and others, 1976; Olmsted and others, 1973, 1975; Russell, 1885

Sano Valley (HA 20)

Glancy and Rush, 1968; Russell, 1885

Sarcobatus Flat (HA 146)

Bedinger and others, 1989; Dettinger and others, 1995; Eakin and others, 1963; Loeltz and Malmberg, 1961; Malmberg and Eakin, 1962; Mendenhall, 1909; Prudic and others, 1995a

Schurz Subarea (HA 110A)

Everett and Rush, 1967; Robinson, 1951; Schaefer, 1980

Silver State Valley (HA 32)

Garcia and Jacoboni, 1991; Huxel and others, 1966; Russell, 1885; Visher, 1957

Skedaddle Creek Valley (HA 98)

Glancy and Rush, 1968

Smith Creek Valley (HA 134)

Carlton and Thomas, 1987; Carman, 1985, 1989, 1993; Everett and Rush, 1964; Harrill and others, 1983; Hines, 1992; Loeltz and Malmberg, 1961; Nichols, 1994; Olmsted and others, 1973; Thomas and others, 1985, 1989a,b; Welch and Williams, 1986a

Smith Valley (HA 107)

Loeltz and Eakin, 1953; Loeltz and Malmberg, 1961; Rush, 1976; Rush and Schroer, 1976; Welch and others, 1986, 1988; Whitehead and Feth, 1961

Smoke Creek Desert (HA 21)

Benson and others, 1995; Benson and Paillet, 1989; Benson and Thompson, 1987a; Garcia and Jacoboni, 1991; Glancy and Rush, 1968; Lico, 1992a; Loeltz and Malmberg, 1961; Maurer, 1993; Nichols, 1994; Russell, 1885; Welch and Williams, 1987b

Snake River Basin (Part 3)

Laird, 1964; Lamke and Moore, 1965; Moore and Eakin, 1968

Snake Valley (HA 195)

Bedinger and others, 1990; Crittenden, 1963; Gates and Kruer, 1981; Gilbert, 1890; Hood and Rush, 1965; Loeltz and Malmberg, 1961; Pupacko and others, 1979c; Schaefer and Harrill, 1995; Snyder, 1963; Welch and Williams, 1986c

Soda Spring Valley (HA 121)

Shamberger, 1978; Van Denburgh and Glancy, 1970; Welch and Williams, 1987e

South Fork Area (HA 46)

Eakin and Lamke, 1966; Plume and Stone, 1992; Rush and Everett, 1966a; Thomas and Lamke, 1962

South Fork Owyhee River Area (HA 35)

Laird, 1964; Moore and Eakin, 1968; Riggs and Moore, 1965; Thomas and Lamke, 1962; Young and Lewis, 1982

Spanish Springs Valley (HA 85)

Lico, 1992a; Robinson and Phoenix, 1948; Rush and Glancy, 1967; Van Denburgh and others, 1972

Spooner Lake

Rush and others, 1972

Spring Valley (Lincoln Co.; HA 184)

Bunch and Harrill, 1984; Dettinger, 1989b; Loeltz and Malmberg, 1961; Pupacko and others, 1989c; Rush and Kazmi, 1965; Savard and Crompton, 1993; Snyder, 1963; Snyder and Langbein, 1962; Welch and Williams, 1986c,d

Spring Valley (Lincoln Co.; HA 201)

Carpenter, 1915; Phoenix, 1948; Rush, 1964; Schaefer and Harrill, 1995; Snyder, 1963; Westenburg, 1995

Starr Valley Area (HA 43)

Eakin and Lamke, 1966; Thomas and Lamke, 1962

Steptoe Valley (HA 179)

Bedinger and others, 1990; Berger and others, 1990; Bunch and Harrill, 1984; Clark and Riddell, 1920; Dettinger and Schaefer, 1995; Eakin and others, 1967; Frick, 1985, 1990; Loeltz and Malmberg, 1961; Plume, 1988b; Pupacko and others, 1989c; Savard and Crompton, 1993; Snyder, 1963; Welch and Williams, 1986b,c,d

Stevens Basin (HA 152)

Rush and Everett, 1964

Stingaree Valley (HA 125)

Cohen and Everett, 1963; Harrill and Hines, 1995; Olmsted and others, 1973; Schaefer, 1988a; Schaefer and others, 1984; Shamberger, 1973b

Stone Cabin Valley (HA 149)

Bunch and Harrill, 1984; Dettinger and others, 1995; Eakin, 1962e; Eakin and others, 1963; Fiero and others, 1974; Prudic and others, 1995a; Rush, 1968b; Schroder and others, 1971; Welch and Williams, 1987f

Stonewall Flat (HA 145)

Eakin and others, 1963; Mendenhall, 1909; Rush, 1968b

Summit Lake Valley (HA 27)

Garcia and Jacoboni, 1991; Olmsted and others, 1973; Sinclair, 1963c

Sun Valley (HA 86)

Robinson and Phoenix, 1948; Rush and Glancy, 1967; Van Denburgh and others, 1973

Surprise Valley (HA 14)

Sinclair, 1963a

Susie Creek Area (HA 50)

Eakin and Lamke, 1966; Plume, 1995; Thomas and Lamke, 1962

Swan Lake Valley (HA 7)

Sinclair, 1963a

Teels Marsh Valley (HA 114)

Shamberger, 1978; Van Denburgh and Glancy, 1970

Thousand Springs Valley (HA 189)

Benson and others, 1990, 1992; Crittenden, 1963; Gilbert, 1890; Kilroy, 1995; Loeltz and Malmberg, 1961; Prudic and others, 1995a; Rush, 1968c

Three Lakes Valley (northern part; HA 168)

Bedinger and others, 1989; Carpenter, 1915; Dettinger and others, 1995; Eakin and others, 1963; Mendenhall, 1909; Rush, 1971; Schaefer and Harrill, 1995; Winograd and Thordarson, 1975

Three Lakes Valley (southern part; HA 211)

Bedinger and others, 1989; Carpenter, 1915; Dettinger, 1989a, 1992; Dettinger and others, 1995; Maxey and Jameson, 1946, 1948; Maxey and Robinson, 1947; Mendenhall, 1909; Rush, 1971; Schaefer and Harrill, 1995; Westenburg, 1995; Winograd and Thordarson, 1975

Tikapoo Valley (Tickaboo Valley; HA 169)

Bedinger and others, 1989; Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Mendenhall, 1909; Prudic and others, 1995a; Pupacko and others, 1989c; Rush, 1971; Schaefer and Harrill, 1995; Schaefer and others, 1992; Snyder, 1963; Winograd and Thordarson, 1975

Tippett Valley (HA 185)

Bedinger and others, 1990; Harrill, 1971; Pupacko and others, 1989c; Snyder, 1963

Tonopah Flat (HA 137A)

Meinzer, 1916, 1917; Phoenix, 1949b; Robinson and others, 1947; Rush and Schroer, 1970; Shamberger, 1975

Topaz Lake

Harrill and Nowlin, 1976; Lamke and Moore, 1965; Nowlin, 1976, 1982; Rush and Hill, 1972; Thodal, 1989, 1992a; U.S. Geological Survey, 1954; Welch and others, 1986, 1988; Williams and Bedinger, 1984

Tracy Segment (HA 83)

La Camera and others, 1985; Russell, 1885; U.S. Geological Survey, 1954; Van Denburgh and others, 1973; Welch and Williams, 1987d

Truckee Canyon Segment (HA 91)

La Camera and others, 1985; Nowlin and others, 1980; Robinson and others, 1951; U.S. Geological Survey, 1954; Van Denburgh and others, 1973; Welch and others, 1986, 1988

Truckee Meadows (HA 87)

Bell and others, 1989; Blodgett and others, 1984; Cohen, 1961a, 1962d; Cohen and Loeltz, 1964; Katzer and others, 1984a; La Camera and others, 1985; Lico, 1992a; Loeltz and Malmberg, 1961; Nowlin and others, 1980; Olmsted and others, 1973; Silberman and others, 1979;

U.S. Geological Survey, 1954; Van Denburgh and others, 1973; Welch and others, 1986, 1988; Welch and Williams, 1987d; White, 1968

Truckee River Basin (Part 6)

August and others, 1992; August and Ruddy, 1992; Benson, 1984, 1994b; Benson and others, 1995; Bevans and Kilroy, 1991; Blodgett and others, 1984; Bohman, 1994; Bohman and others, 1995; Brown and others, 1986; Cobb and others, 1990; Glancy and others, 1972, 1984; Hoffman, 1990; Hoffman and Scopettone, 1988; Jeton, 1991; Kilroy, 1994; La Camera and others, 1985; Lamke and Moore, 1965; Lao and Benson, 1988; Lawrence, 1994; Lawrence and Bevans, 1994; Matthai, 1974; Maurer and Moffatt, 1992; Meder, 1984; Nowlin, 1987a,b; Nowlin and others, 1980; Pupacko, 1991a, 1993a; Reece and others, 1994; Taylor, 1902; Trionfante and Peltz, 1994; U.S. Geological Survey, 1954; Van Denburgh, 1973; Van Denburgh and others, 1973; Young and Harris, 1966

Tule Desert (HA 221)

Dettinger, 1992; Dettinger and others, 1995; Glancy and Van Denburgh, 1969; Westenburg, 1995

Upper Moapa Valley. See Muddy River Springs Area

Upper Reese River Valley (HA 56)

Eakin and Lamke, 1966; Eakin and others, 1965; Plume, 1988a; Waring, 1918

Virgin River

Bales and Laney, 1992; Dettinger and others, 1995; Glancy and Van Denburgh, 1969; Hilmes, 1994; Smith, 1994; Westenburg, 1995

Virgin River Valley (HA 222)

Bales and Laney, 1992; Carpenter, 1915; Dettinger, 1992; Dettinger and others, 1995; Glancy and Van Denburgh, 1969; Mendenhall, 1909; Prudic and others, 1995a; Thomas and others, 1991; Westenburg, 1995

Virgin Valley (HA 4)

Garcia and Jacoboni, 1991; Sinclair, 1963d

Walker Lake Valley (HA 110)

Benson, 1988; Benson and others, 1991; Benson and Paillet, 1989; Benson and Thompson, 1987a; Eakin and Robinson, 1950; Everett and Rush, 1967; Katzer and Harmsen, 1973a; Lamke and Moore, 1965; Lao and Benson, 1988; Meyers and Benson, 1988; Rice and Tuttle, 1989; Robinson, 1951; Rush, 1970; Russell,

1885; Schaefer, 1980; Thomas, 1995; U.S. Geological Survey, 1954; Van Denburgh and Goerlitz, 1987; Van Denburgh and Schaefer, 1986; Welch and Williams, 1987e; Whitehead and Feth, 1961; Williams and Bedinger, 1984; Young and Harris, 1966

Walker River Basin (Part 9)

Benson, 1988; Benson and Leach, 1979; Benson and others, 1991, 1995; Benson and Paillet, 1989; Benson and Spencer, 1983; Benson and Thompson, 1987a; Everett and Rush, 1967; Glancy, 1971b; Harrill and Nowlin, 1976; Huxel, 1969; Huxel and Harris, 1969; Katzer and Harmsen, 1973a; Lamke and Moore, 1965; Lao and Benson, 1988; Lico, 1992a; Loeltz and Eakin, 1953; Loeltz and Malmberg, 1961; Meyers and Benson, 1988; Nowlin, 1976, 1982; Olmsted and others, 1973; Rice and Tuttle, 1989; Robinson, 1951; Rush, 1970, 1976; Rush and Hill, 1972; Rush and Schroe, 1976; Russell, 1885; Schaefer, 1980; Seitz and others, 1982; Thodal, 1989, 1992a; Thomas, 1995; U.S. Geological Survey, 1954; Van Denburgh and Goerlitz, 1987; Van Denburgh and Schaefer, 1986; Welch and others, 1986, 1988; Welch and Williams, 1987d,e; Whitehead and Feth, 1961; Williams and Bedinger, 1984; Young and Harris, 1966

Warm Springs Valley (HA 84)

Rush and Glancy, 1967; Van Denburgh and others, 1973

Warner Valley (HA 13)

Sinclair, 1963a

Washoe Valley (HA 89)

Arteaga and Nichols, 1984; Feth and others, 1964a,b; Glancy, 1985; Glancy and Katzer, 1977; Lico, 1992a; Rush, 1967, 1972a, 1975; Shamberger, 1972a; Van Denburgh and others, 1973; Welch and Williams, 1987d; Whitehead and Feth, 1961; Williams and Bedinger, 1984

Weber Reservoir

Katzer and Harmsen, 1973a; Lamke and Moore, 1965

Whirlwind Valley (HA 60)

Eakin and Lamke, 1966; Olmsted and others, 1973; Olmsted and Rush, 1987; Thomas and Lamke, 1962; Welch and Williams, 1987c

Whisky Flat-Hawthorne Subarea (HA 110C)

Eakin and Robinson, 1950; Everett and Rush, 1967; U.S. Geological Survey, 1954; Van Denburgh and Goerlitz, 1987; Van Denburgh and Schaefer, 1986; Welch and Williams, 1987e

White Plains (HA 74)

Garcia and Jacoboni, 1991; Glancy and Katzer, 1976; Russell, 1885; Welch and Williams, 1987d

White River Valley (HA 207)

Bunch and Harrill, 1984; Carpenter, 1915; Dettinger, 1989a; Dettinger and others, 1995; Eakin, 1966; Loeltz and Malmberg, 1961; Maxey and Eakin, 1949; Plume, 1988b; Pupacko and others, 1989c; Prudic and others, 1995a; Savard and Crompton, 1993; Snyder, 1963; Welch and Thomas, 1984; Welch and Williams, 1986d; Westernburg, 1995

Wildhorse Reservoir

Katzer and Harmsen, 1973b

Willow Creek Valley (HA 63)

Eakin and Lamke, 1966

Winnemucca Lake Valley (HA 80)

Garcia and Jacoboni, 1991; Russell, 1885; Van Denburgh and others, 1973; Zones, 1961a

Winnemucca Segment (HA 70)

Cohen, 1961b,c, 1962a,b,c,e, 1963a,b, 1964b; Cohen and others, 1965; Eakin and Lamke, 1966; Garcia and Jacoboni, 1991; Olmsted and others, 1973; Robinson, 1970; Russell, 1885; Thomas and Lamke, 1962; Welch and Williams, 1987a,c

Yucca Flat (HA 159)

Bedinger and others, 1989; Carman, 1994; Dettinger, 1989a, 1992; Dettinger and others, 1975; Doty and Thordarson, 1983; Eakin and others, 1963; Hale and others, 1995; Hale and Trudeau, 1993; Hawkins and others, 1990; Hoover and Trudeau, 1987; Kane and others, 1994; Mendenhall, 1909; Pabst and others, 1993; Reiner and others, 1995; Robie and others, 1995; Rush, 1971; Sass and Lachenbruch, 1982; Welch and Williams, 1987g; Winograd and Thordarson, 1975

Yucca Mountain area

Benson and others, 1983; Bentley, 1984; Bentley and others, 1983; Coe and others, 1991; Craig and Johnson, 1984; Craig and others, 1983; Craig and Robison, 1984; Czarnecki, 1984, 1991; Czarnecki and Waddell, 1984; Czarnecki and Wilson, 1991; Ericksen and Waddell, 1985; Flint and Flint, 1990; Fridrich and others, 1994; Gemmell, 1990; Glancy, 1994; Glanzman, 1991; Hale and Westernburg, 1995; Kane and others, 1994; La Camera and Westernburg, 1994; Lahoud and others, 1984; Lobmeyer, 1986; Luckey and others, 1993; O'Brien, 1991, 1993; Pabst and others, 1993; Robison, 1984; Robison and others, 1988; Rush and others, 1984; Savard, 1994, 1995; Thordarson and others, 1984, 1985; Waddell and others, 1984; Whitfield and others, 1984, 1985