

**References and Maps for Hydrology Section of
Hydrology, Biology, and Noise Calculation Package for
Transportation:**

**Portions of Corridors/Routes Passing
over Designated Groundwater Basins**

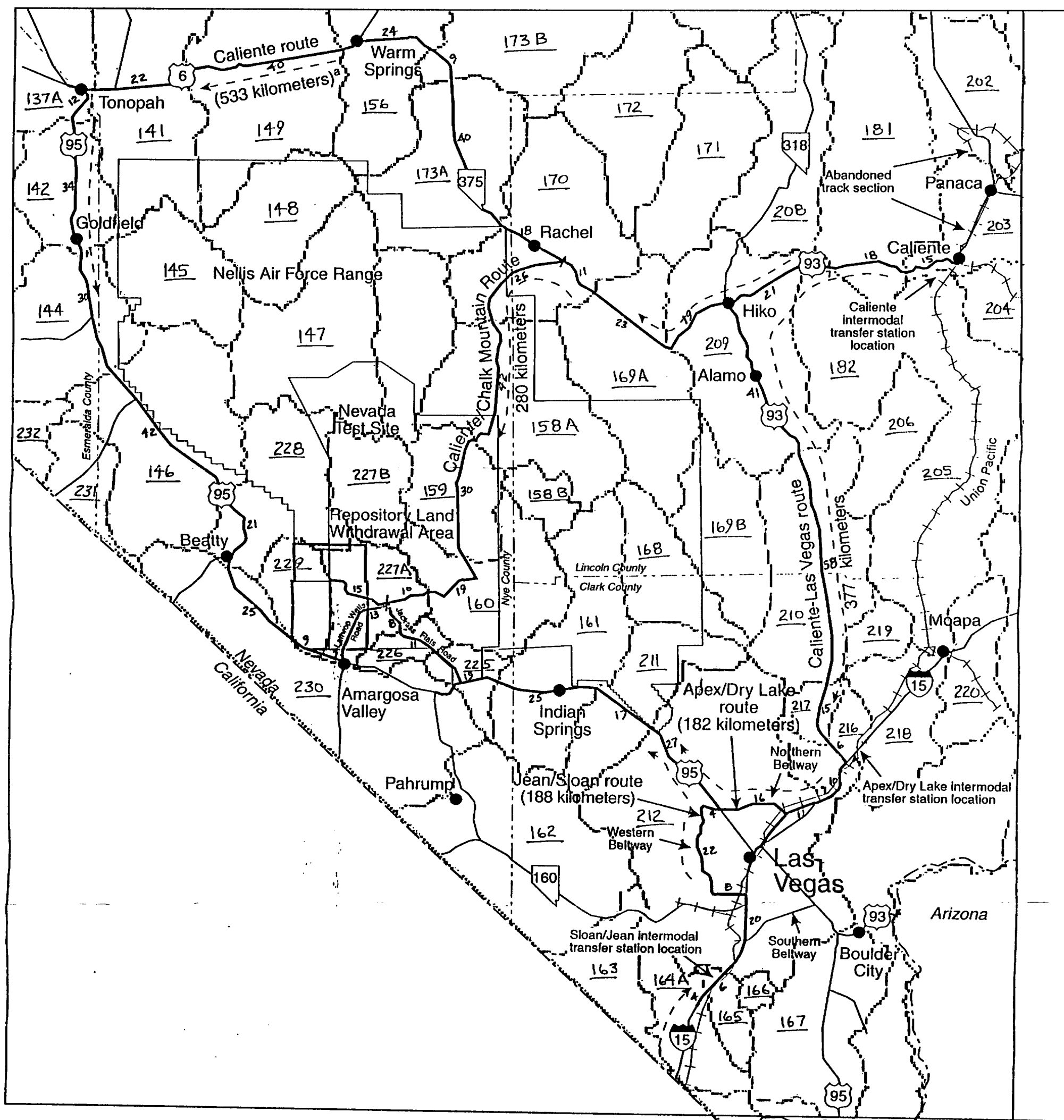
L/m-nd

**Digitized Maps of Nevada Hydrographic Areas
(from USGS) Overlain with Heavy-Haul Routes**

**These Maps accompany the section of the Hydrology, Biology,
and Noise Calculation Package called:**

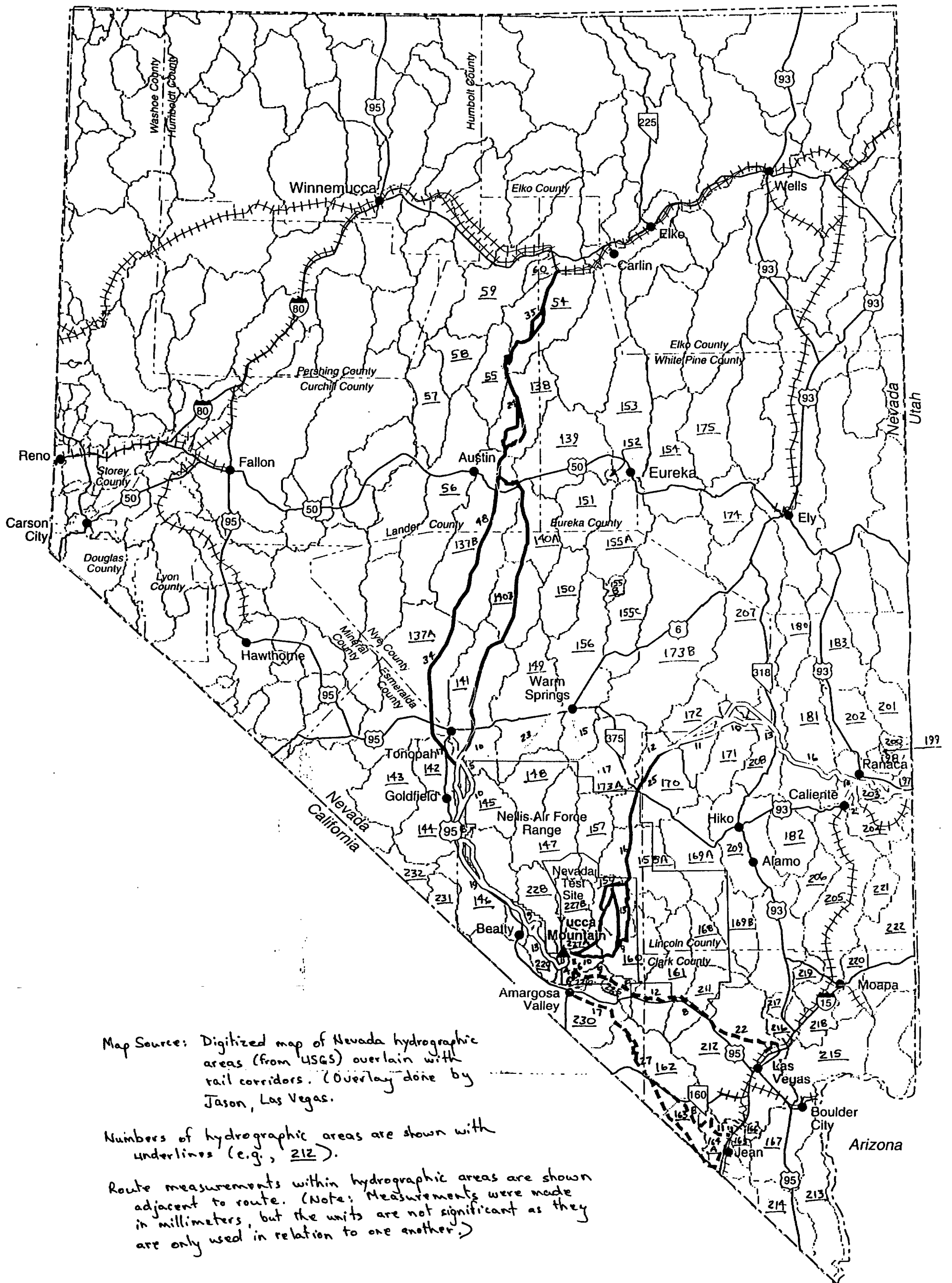
***Portions of Corridors/Routes Passing over
Designated Groundwater Basins***

5/27/00



Map Source: Digitized map of Nevada hydrographic areas (from USGS) overlain with heavy-haul routes. (Overlay done by ~~Jason~~ Jason, Las Vegas)

Numbers of hydrographic areas are shown with underlines (e.g., 227A)
 Route measurements within hydrographic areas are shown adjacent to route. (Note: Measurements were made in millimeters, but the units are not significant as they are only used in relation to one another.)



**References for Hydrology Section of Hydrology,
Biology, and Noise Calculation Package for
Transportation:**

***Portions of Corridors/Routes Passing over
Designated Groundwater Basins***

Calculation Package References

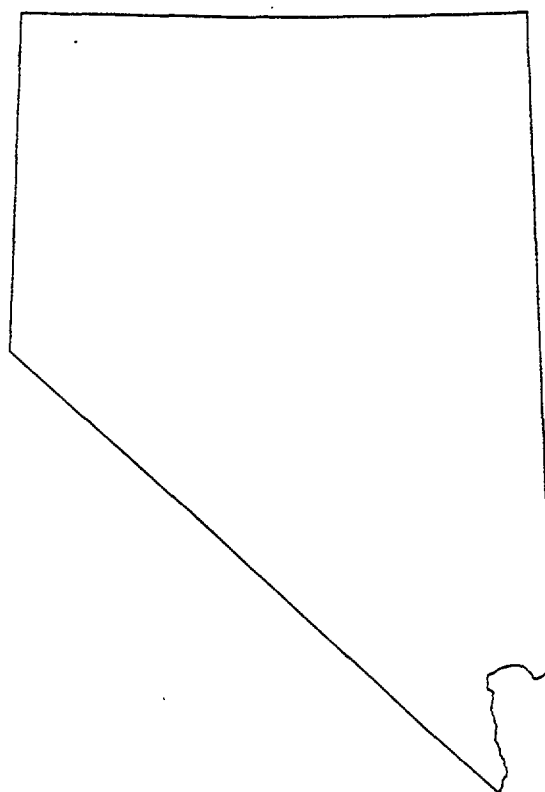
The calculation package for "Portions of Corridors/Routes Passing Over Designated Groundwater Basins" (March 15, 1999), cites the following reference as a typical source for the map of the State of Nevada's hydrographic areas:

Bauer et al. 1996, *Water Resources Data, Nevada Water Year 1995*, WDR NV-95-1, U.S. Geological Survey, U.S. Department of the Interior, Carson City, Nevada.

Attached are the cover page and the Report Documentation Page from this reference followed by the specific pages cited in the calculation package.



Water Resources Data Nevada Water Year 1995



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-95-1
Prepared in cooperation with the State of Nevada
and with other agencies

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
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6. AUTHOR(S) David J. Bauer, Barbie J. Foster, Joseph D. Joyner and Robert A. Swanson				
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12a. DISTRIBUTION / AVAILABILITY STATEMENT No restrictions on distribution. This report may be purchased from: National Technical Information Service Springfield, VA 22161			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Water resources data published herein for the 1995 water year comprise the following records: <ul style="list-style-type: none"> o Water discharge for 178 gaging stations on streams, canals and drains. o Discharge for 113 peak-flow stations and miscellaneous sites, and 46 springs. o Stage and contents for 22 lakes and reservoirs. o Water-quality data for 171 stream, lake, canal, spring, precipitation, and drain sites, and 111 wells. o Precipitation totals for 58 stations. o Water levels for 17 continuous record wells, and 1022 observation wells. <p>Additional water-data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.</p>				
14. SUBJECT TERMS *Nevada, *Hydrologic data, *Ground water, Chemical Analysis, Sediments, Water temperatures, Sampling sites, Water levels, Water analysis.			15. NUMBER OF PAGES 752	
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17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT	

STATE OF NEVADA--HYDROGRAPHIC AREAS

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. Jarbidge 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. Lamaille 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. Carico 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. Inlay Area
73. Lovelock V.
(A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fersley 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. Skedaddle 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 Valley

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. Singaree 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 Flat
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) Pupoose Lake V.

159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahump V.
163. Mesquite V. (Sandy V.)
164. Ivanpan V.
(A) Northern Part
(B) Southern Part
165. Jean Lake V.
166. Hidden V. (Scuth)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
(A) Northern Part
(B) Southern Part
170. Penover 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. Deiamar 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. (Peguop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
(A) Herrill 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. Pahranaagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado 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. Tuie 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

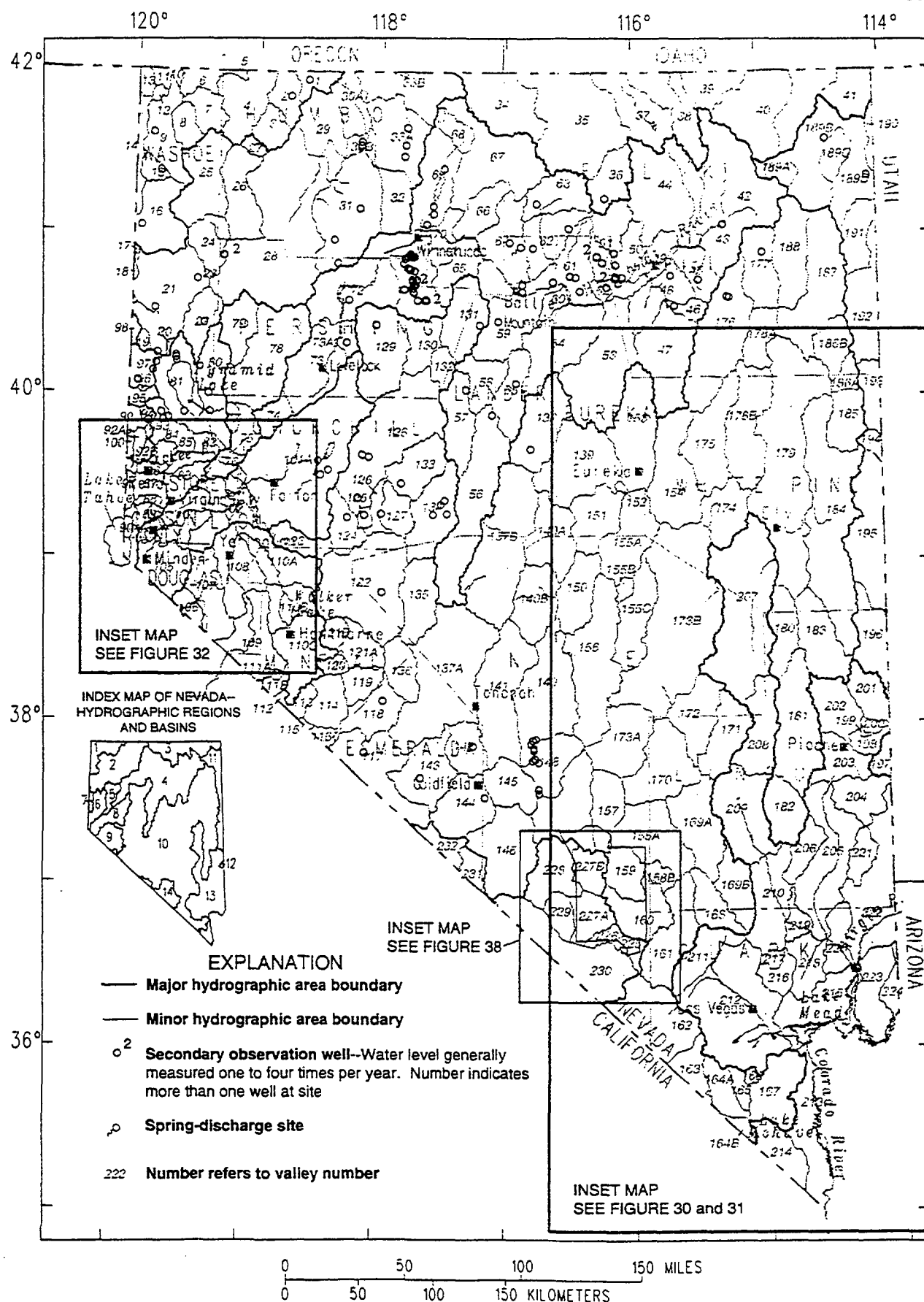


Figure 29. Observation wells and selected springs listed in this report.

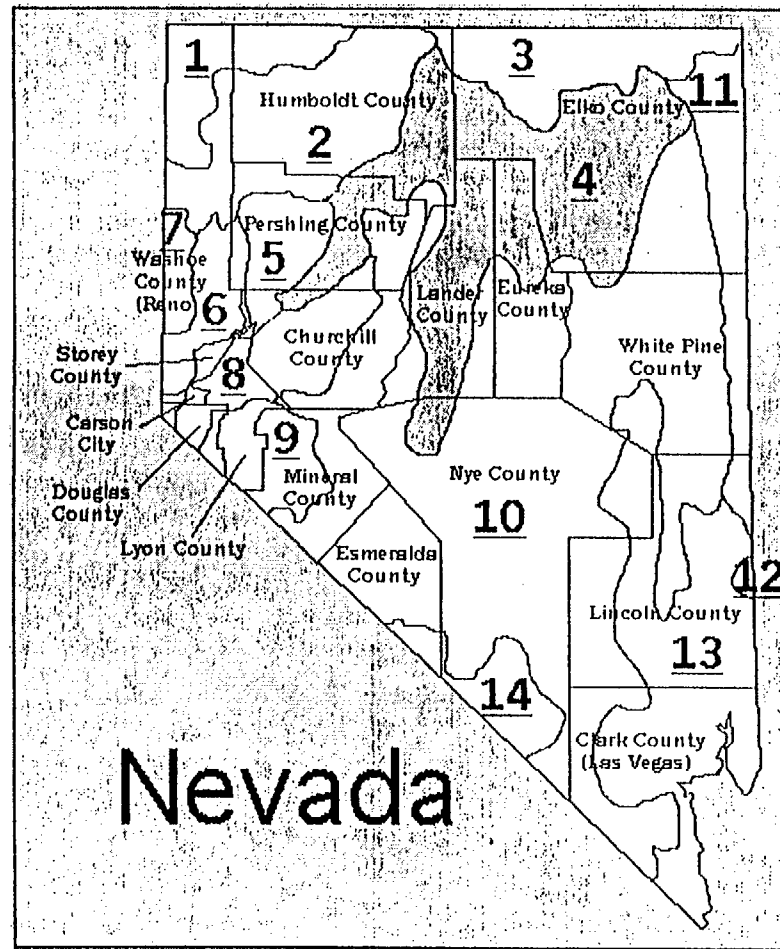
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Calculation Package References

The calculation package for "Portions of Corridors/Routes Passing Over Designated Groundwater Basins" (March 15, 1999), describes the source of the hydrographic areas designations as being the Nevada Division of Water Planning's home page (<http://www.state.nv.us/cnr/ndwp>), and specifically the Nevada Hydrographic Region Index Map that can be accessed from that page. Attached are the regional pages printed from the web site. The four regions (4- Humboldt River Basin, 10- Central Region, 13- Colorado River Basin, and 14- Death Valley Basin) represent those that would be crossed by one or more of the rail or heavy-haul routes. Within each regional printout are the hydrographic areas found within the region and whether each area is designated or not.

NEVADA DIVISION OF WATER PLANNING

[4] Humboldt River Basin



Verified up to date
with Web Page
as of 8/14/98
KDD

[4] Humboldt River Basin—Covers over 16,843 square miles (10,779,520 acres) in parts of eight counties—Elko, White Pine, Eureka, Humboldt, Lander, Nye, Pershing, and Churchill—and the largest stream (Humboldt River) wholly within Nevada. This basin contains 34 hydrographic areas and one sub-area.

Hydrographic Areas and Sub-Areas:

[1]	[2]	[3]	[4]	[5]	[6]	[7]
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Area	Sq. mi.	Acres	Area/Sub-Area Name	Counties	City(ies)	Des.
42	1,073	686,720	Marys River Area	✓ Elko	Wells, Deeth	Yes
43	332	212,480	Starr Valley	Elko	Halleck, Deeth	Yes
44	1,110	710,400	North Fork Area	Elko	North Fork, Halleck	Yes
45	257	164,480	Lamoille Valley	Elko	Lamoille, Elko	Yes
46	99	63,360	South Fork Area	Elko	Lamoille, Jiggs	Yes
47	787	503,680	Huntington Valley	✓ Elko, White Pine	Jiggs	Yes
48	392	250,880	Dixie Creek Area-Tenmile Creek Area	Elko	Elko, Spring Valley	Yes
49	314	200,960	Elko Segment	Elko	Elko	Yes
50	223	142,720	Susie Creek Area	Elko	Carlin	Yes
51	396	253,440	Maggie Creek Area	✓ Elko, Eureka	Carlin	Yes
52	61	39,040	Marys Creek Area	✓ Elko, Eureka	Palisade, Carlin	Yes
53	1,002	641,280	Pine Valley	✓ Eureka	Carlin	Yes
54	752	481,280	Crescent Valley	✓ Eureka, Lander	Beowawe, Crescent Valley	Yes
55	376	240,640	Carico Lake Valley	✓ Lander	Austin, Crescent Valley	No
56	1,138	728,320	Upper Reese River Valley	✓ Lander, Nye	Austin	Yes
57	452	289,280	Antelope Valley	✓ Lander	Austin	Yes
58	319	204,160	Middle Reese River Valley	✓ Lander	Austin	Yes
59	588	376,320	Lower Reese River Valley	✓ Eureka, Lander	Austin, Lone	No
60	94	60,160	Whirlwind Valley	✓ Eureka, Lander	Beowawe, Dunphy	Yes
61	544	348,160	Boulder Flat	✓ Eureka, Lander, Elko	Beowawe, Battle Mountain	Yes
62	444	284,160	Rock Creek Valley	✓ Elko, Lander	Battle Mountain	No
63	405	259,200	Willow Creek	✓ Elko	Midas	No
64	720	460,800	Clovers Area	✓ Elko, Humboldt, Lander	Battle Mountain	Yes
65	299	191,360	Pumpernickel Valley	✓ Humboldt, Pershing	Golconda, Valmy	No
66	301	192,640	Kelley Creek Valley	✓ Elko, Humboldt	Golconda	Yes
67	975	624,000	Little Humboldt Valley	✓ Elko, Humboldt	Paradise Valley	No
68	167	106,880	Hardscrabble Area	✓ Humboldt	Paradise Valley	No
69	600	384,000	Paradise Valley	✓ Humboldt	Paradise Valley, Winnemucca	Yes
70	435	278,400	Winnemucca Segment	✓ Humboldt	Winnemucca, Golconda	Yes
71	520	332,800	Grass Valley	✓ Humboldt, Pershing	Winnemucca	Yes
72	771	493,440	Imlay Area	✓ Pershing	Imlay, Humboldt, Mill City	Yes
73	635	406,400	Lovelock Valley	✓ Pershing	Rye Patch, Lovelock	Yes
73A	98	62,720	Lovelock Valley/Oreana Sub-Area	✓ Churchill, Pershing	Lovelock, Toulon	No
74	164	104,960	White Plains	✓ Churchill, Pershing	Lovelock, Fernley	Yes
Total	16,843	10,779,520	Square miles/acres			

Nevada Hydrologic Regions, Areas, and Sub-Areas Table Notes:

A *Hydrographic Region or Basin* is defined as a geographic area drained by a single major stream or an area consisting of a drainage system comprised of streams and often natural or man-made lakes. Also referred to as Drainage Basin, Watershed, or Waterbasin. The U.S. Geological Survey and the Nevada Division of Water Resources, Department of Conservation and Natural Resources, have divided the state into discrete hydrologic units for water planning and management purposes. These have been identified as 232 *Hydrographic*

20

as (256 areas and sub-areas, combined) within 14 major Hydrographic Regions or Basins. The hydrographic areas and sub-areas typically consist of a valley drainage system.

[1] Nevada Hydrographic Area/Sub-Area number (1-232; Hydrographic Sub-Areas designated A, B, C, etc.).

[2] and [3] Hydrographic Area/Sub-Area surface areas in square miles and acres, respectively.

[4] Nevada Area or Sub-Area (valley) name.

[5] Nevada Counties wholly or partially included, listed by principal county first.

[6] Nearest principal city or cities.

[7] Des. = Designated Groundwater Basin (Area or Sub-Area). *Designated Groundwater Basins* are hydrographic areas or sub-areas where permitted ground water rights approach or exceed the estimated average annual recharge (i.e., the perennial yield of the basin) and the water resources are being depleted or require additional administration. Under such conditions, and, in the interest of public welfare, the Nevada State Engineer, Division of Water Resources, Department of Conservation and Natural Resources, is authorized by statute (Nevada Revised Statute 534.120) and directed to designate a groundwater basin and declare preferred uses (e.g., municipal and industrial, domestic supply, agriculture, etc.). The State Engineer has additional authority in the administration of the water resources within a designated ground water basin. Designated groundwater basins are also referred to as *Administered Groundwater Basins*.

Source: Office of the State Engineer, Nevada Division of Water Resources, Department of Conservation and Natural Resources.

Return to the **NDWP Nevada Hydrographic Region Index Map**

or return to the **Nevada Division of Water Planning Home Page**

For further information on Nevada's Hydrographic Regions, Areas, and Sub-Areas, contact

Nevada Division of Water Planning

Department of Conservation and Natural Resources

1550 East College Parkway, Suite 142

Carson City, NV 89710

Telephone: (702) 687-3600

FAX: (702) 687-1288

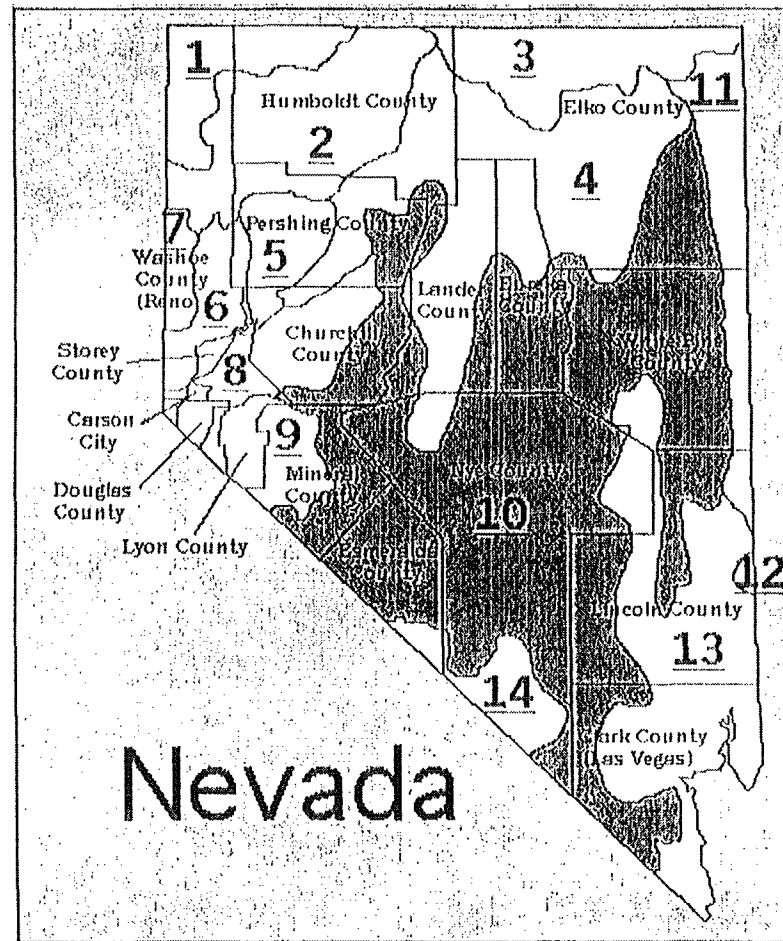
Internet Home Page: **<http://www.state.nv.us/cnr/ndwp>**

Internet E-mail: **ghorton@govmail.state.nv.us**

SEPARATOR

NEVADA DIVISION OF WATER PLANNING

[10] Central Region



*Verified up to date
with web page
as of 8/14/98
KDD*

[10] Central Region—By far the largest hydrographic region in Nevada covering 46,783 square miles (29,941,120 acres) in 13 counties—Nye, Elko, White Pine, Lincoln, Clark, Humboldt, Pershing, Churchill, Lander, Eureka, Lyon, Mineral, and Esmeralda. This region includes 78 valleys (hydrographic areas), 10 of which are divided into two sub-areas and one into three sub-areas.

Hydrographic Areas and Sub-Areas:

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Area	Sq. mi.	Acres	Area/Sub-Area Name	Counties	City(ies)	Des.
111A	18	11,520	Alkali Valley/Northern Part	✓ Mineral	Hawthorne	No
111B	65	41,600	Alkali Valley/Southern Part	✓ Mineral	Hawthorne	No
112	27	17,280	Mono Valley	✓ Mineral	Hawthorne	No
113	97	62,080	Huntoon Valley	✓ Mineral	Hawthorne	No
114	323	206,720	Teels Marsh Valley	✓ Mineral	Mina, Benton Station	No
115	15	9,600	Adobe Valley	✓ Mineral	Benton Station, Mina	No
116	65	41,600	Queen Valley	✓ Esmeralda, Mineral	Fish Lake Valley, Benton Station	No
117	706	451,840	Fish Lake Valley	✓ Esmeralda	Fish Lake Valley, Dyer	Yes
118	370	236,800	Columbus Salt Marsh Valley	✓ Esmeralda, Mineral	Fish Lake Valley, Mina	No
119	199	127,360	Rhodes Salt Marsh Valley	✓ Mineral	Mina	No
120	92	58,880	Garfield Flat	✓ Mineral	Mina, Hawthorne	No
121A	246	157,440	Soda Springs Valley/Eastern Part	✓ Mineral	Luning, Mina	Yes
121B	130	83,200	Soda Springs Valley/Western Part	✓ Mineral	Luning, Hawthorne	Yes
122	1,277	817,280	Gabbs Valley	✓ Churchill, Mineral, Nye	Gabbs	Yes
123	227	145,280	Rawhide Flats	✓ Churchill, Mineral, Lyon	Schurz, Fallon	No
124	285	182,400	Fairview Valley	✓ Churchill, Mineral	Frenchman, Fallon, Eastgate	Yes
125	43	27,520	Stingaree Valley	✓ Churchill	Frenchman, Eastgate	Yes
126	110	70,400	Cowkick Valley	✓ Churchill	Frenchman, Eastgate	Yes
127	216	138,240	Eastgate Valley Area	✓ Churchill	Eastgate	Yes
128	1,303	833,920	Dixie Valley	✓ Churchill, Lander, Pershing	Dixie Valley, Fallon	Yes
129	742	474,880	Buena Vista Valley	✓ Churchill, Pershing	Unionville, Lovelock	Yes
130	285	182,400	Pleasant Valley	✓ Pershing	Dixie Valley, Winnemucca	Yes
131	504	322,560	Buffalo Valley	✓ Humboldt, Pershing, Lander	Battle Mountain, Winnemucca	No
132	142	90,880	Jersey Valley	✓ Lander, Pershing	Dixie Valley, Battle Mountain	Yes
133	416	266,240	Edwards Creek Valley	✓ Churchill, Lander	Eastgate, Austin	No
134	582	372,480	Smith Creek	✓ Lander, Nye	Austin, Eastgate	No
135	460	294,400	Ione Valley	✓ Mineral, Nye	Gabbs, Ione	No
136	284	181,760	Monte Cristo Valley	✓ Esmeralda, Mineral	Mina, Tonopah	No
137A	1,603	1,025,920	Big Smoky Valley/Tonopah Flat	✓ Esmeralda, Mineral, Nye	Tonopah, Manhattan	Yes
137B	1,323	846,720	Big Smoky Valley/Northern Part	✓ Lander, Nye	Round Mountain, Austin	Yes
138	595	380,800	Grass Valley	✓ Eureka, Lander	Austin	No
139	868	555,520	Kobel Valley	✓ Eureka, Lander	Eureka	Yes
140A	529	338,560	Monitor Valley/Northern Part	✓ Eureka, Lander, Nye	Austin	No
140B	509	325,760	Monitor Valley/Southern Part	✓ Nye	Round Mountain, Tonopah	No
141	971	621,440	Ralston Valley	✓ Esmeralda, Nye	Tonopah	Yes
142	313	200,320	Alkali Spring Valley	✓ Esmeralda, Nye	Goldfield, Tonopah	No
143	555	355,200	Clayton Valley	✓ Esmeralda	Silverpeak	No
144	535	342,400	Lida Valley	✓ Esmeralda, Nye	Lida, Goldfield	No
145	381	243,840	Stonewall Flat	✓ Nye	Goldfield	No
146	812	519,680	Sarcobatus Flat	✓ Esmeralda, Nye	Scottys Junction, Beatty	Yes

147	684	437,760	Gold Flat	✓	Nye	Goldfield	No
148	403	257,920	Cactus Flat	✓	Nye	Goldfield, Warm Springs	No
149	985	630,400	Stone Cabin Valley	✓	Nye	Tonopah, Warm Springs	Yes
150	434	277,760	Little Fish Lake Valley	✓	Nye	Eureka, Warm Springs	No
151	444	284,160	Antelope Valley	✓	Eureka, Nye	Eureka	No
152	17	10,880	Stevens Basin	✓	Eureka	Eureka	No
153	752	481,280	Diamond Valley	✓	Elko, Eureka	Eureka, Austin	Yes
154	801	512,640	Newark Valley	✓	White Pine	Eureka	No
155A	591	378,240	Little Smoky Valley/Northern Part	✓	Eureka, Nye, White Pine	Eureka	No
155B	57	36,480	Little Smoky Valley/Central Part	✓	Nye	Duckwater, Eureka	No
155C	510	326,400	Little Smoky Valley/Southern Part	✓	Nye	Duckwater, Eureka	No
156	1,036	663,040	Hot Creek	✓	Nye	Warm Springs	No
157	350	224,000	Kawich Valley	✓	Nye	Warm Springs	No
158A	663	424,320	Emigrant Valley/Groom Lake Valley	✓	Lincoln, Nye	Tempiute	No
158B	104	66,560	Emigrant Valley/Papoose Valley	✓	Lincoln, Nye	Indian Springs, Mercury	No
159	305	195,200	Yucca Flat	✓	Nye	Mercury	No
160	463	296,320	Frenchman Flat	✓	Clark, Lincoln, Nye	Mercury	No
161	655	419,200	Indian Springs Valley	✓	Clark, Lincoln, Nye	Indian Springs	Yes
162	789	504,960	Pahrump Valley	✓	Clark	Pahrump, Las Vegas	Yes
163	236	151,040	Mesquite Valley (Sandy Valley)	✓	Clark	Goodsprings, Las Vegas	Yes
164A	253	161,920	Ivanpah Valley/Northern Part	✓	Clark	Roach, Searchlight	Yes
164B	73	46,720	Ivanpah Valley/Southern Part	✓	Clark	Jean, Roach, Goodsprings	Yes
165	96	61,440	Jean Lake Valley	✓	Clark	Jean, Goodsprings	Yes
166	34	21,760	Hidden Valley	✓	Clark	Henderson, Jean	Yes
167	530	339,200	Eldorado Valley	✓	Clark	Boulder City, Searchlight	Yes
168	298	190,720	Three Lakes Valley-Northern Part	✓	Clark, Lincoln	Indian Springs	No
169A	607	388,480	Tikapoo Valley/Northern Part	✓	Lincoln	Hiko, Tempiute	No
169B	391	250,240	Tikapoo Valley/Southern Part	✓	Clark, Lincoln	Alamo, Indian Springs	No
170	700	448,000	Penoyer Valley (Sand Spring Valley)	✓	Lincoln, Nye	Hiko, Warm Springs	Yes
171	460	294,400	Coal Valley	✓	Lincoln, Nye	Tempiute	No
172	493	315,520	Garden Valley	✓	Lincoln, Nye	Sunnyside, Tempiute	No
173A	603	385,920	Railroad Valley/Southern Part	✓	Lincoln, Nye	Tempiute, Warm Springs	No
173B	2,149	1,375,360	Railroad Valley/Northern Part	✓	Lincoln, Nye, White Pine	Currant, Duckwater	No
174	422	270,080	Jakes Valley	✓	White Pine	Ely, Eureka	No
175	651	416,640	Long Valley	✓	Elko, White Pine	Ely, Eureka	No
176	1,004	642,560	Ruby Valley	✓	Elko, White Pine	Elko, Ruby Valley	Yes
177	464	296,960	Clover Valley	✓	Elko	Wells, Ruby Valley	Yes
178A	271	173,440	Butte Valley/Northern Part	✓	Elko	Currie, Ruby Valley	No
178B	739	472,960	Butte Valley/Southern Part	✓	Elko, White Pine	Cherry Creek, Ely	No
179	1,942	1,242,880	Steptoe Valley	✓	Elko, White Pine	Ely, Cherry Creek	Yes
180	362	231,680	Cave Valley	✓	Lincoln, White Pine	Sunnyside, Preston	No
181	882	564,480	Dry Lake Valley	✓	Lincoln	Caliente, Pioche	No

182	383	245,120	Delamar Valley	✓	Lincoln	Caliente, Hiko	No
183	557	356,480	Lake Valley	✓	Lincoln, White Pine	Ely, Pioche	Yes
184	1,661	1,063,040	Spring Valley	✓	Lincoln, White Pine	Ely, Baker	No
185	345	220,800	Tippett Valley	✓	White Pine	Tippett	No
186A	125	80,000	Antelope Valley/Southern Part	✓	Elko, White Pine	Wendover, Ely	No
186B	270	172,800	Antelope Valley/Northern Part	✓	Elko, White Pine	Wendover, Ely	No
187	954	610,560	Goshute Valley	✓	Elko	Oasis, Shafter	Yes
188	562	359,680	Independence Valley (Pequop Valley)	✓	Elko	Wells, Oasis	Yes
Total	46,783	29,941,120	Square miles/acres				

Nevada Hydrologic Regions, Areas, and Sub-Areas Table Notes:

A *Hydrographic Region or Basin* is defined as a geographic area drained by a single major stream or an area consisting of a drainage system comprised of streams and often natural or man-made lakes. Also referred to as Drainage Basin, Watershed, or Waterbasin. The U.S. Geological Survey and the Nevada Division of Water Resources, Department of Conservation and Natural Resources, have divided the state into discrete hydrologic units for water planning and management purposes. These have been identified as 232 *Hydrographic Areas* (256 areas and sub-areas, combined) within 14 major Hydrographic Regions or Basins. The hydrographic areas and sub-areas typically consist of a valley drainage system.

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Source: Office of the State Engineer, Nevada Division of Water Resources, Department of Conservation and Natural Resources.

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For further information on Nevada's Hydrographic Regions, Areas, and Sub-Areas, contact

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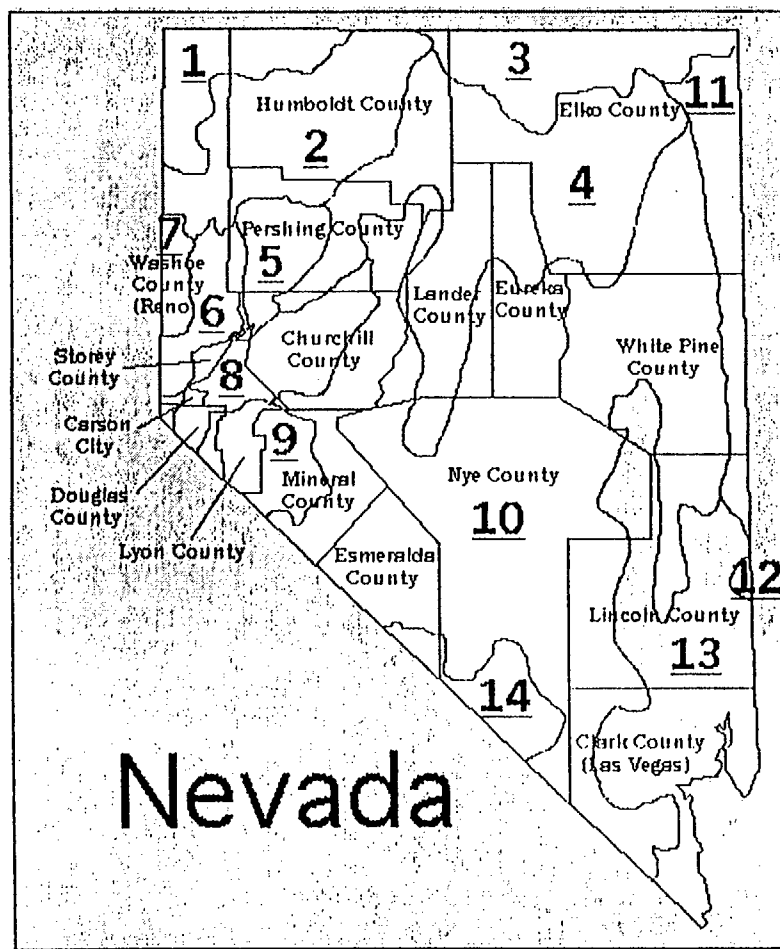
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SEPARATOR

NEVADA DIVISION OF WATER PLANNING

[13] Colorado River Basin



Verified up to date
with Web Page
as of 8/14/98
KDD

[13] Colorado River Basin—Covers 12,376 square miles (7,920,640 acres) including parts of Clark, Lincoln, Nye, and White Pine counties and is divided into 27 hydrographic areas.

Hydrographic Areas and Sub-Areas:

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Area	Sq. mi.	Acres	Area/Sub-Area Name	Counties	City(ies)	Des.

198	113	72,320	Dry Valley	✓	Lincoln	Panaca, Pioche	No
199	12	7,680	Rose Valley	✓	Lincoln	Pioche, Ursine	No
200	52	33,280	Eagle Valley	✓	Lincoln	Pioche, Ursine	No
201	287	183,680	Spring Valley	✓	Lincoln	Pioche, Ursine	No
202	418	267,520	Patterson Valley	✓	Lincoln	Pioche	No
203	334	213,760	Panaca Valley	✓	Lincoln	Panaca, Pioche	Yes
204	364	232,960	Clover Valley	✓	Lincoln	Caliente	No
205	979	626,560	Lower Meadow Valley Wash	✓	Clark, Lincoln	Caliente, Moapa	Yes
206	234	149,760	Kane Springs Valley	✓	Lincoln	Caliente, Moapa	No
207	1,607	1,028,480	White River Valley	✓	Lincoln, Nye, White Pine	Preston, Sunnyside	No
208	508	325,120	Pahroc Valley	✓	Lincoln, Nye	Hiko, Sunnyside	No
209	768	491,520	Pahrnagat Valley	✓	Lincoln	Hiko, Alamo	No
210	657	420,480	Coyote Springs Valley	✓	Clark, Lincoln	Moapa, Alamo	Yes
211	311	199,040	Three Lakes Valley-Southern Part	✓	Clark	Indian Springs	Yes
212	1,564	1,000,960	Las Vegas Valley	✓	Clark	Las Vegas, Henderson	Yes
213	563	360,320	Colorado River Valley	✓	Clark	Laughlin, Boulder City	Yes
214	338	216,320	Piute Valley	✓	Clark	Searchlight	Yes
215	630	403,200	Black Mountains Area	✓	Clark	Boulder City, Overton	Yes
216	156	99,840	Garnet Valley	✓	Clark	North Las Vegas, Moapa	No
217	80	51,200	Hidden Valley	✓	Clark	North Las Vegas, Moapa	No
218	318	203,520	California Wash	✓	Clark	Moapa	No
219	91	58,240	Muddy River Springs Area	✓	Clark, Lincoln	Moapa, Overton	Yes
220	252	161,280	Lower Moapa Valley	✓	Clark, Lincoln	Logandale, Overton	Yes
221	192	122,880	Tule Desert	✓	Lincoln	Caliente, Mesquite	No
222	907	580,480	Virgin River Valley	✓	Clark, Lincoln	Mesquite, Bunkerville	Yes
223	533	341,120	Gold Butte Area	✓	Clark	Overton, Logandale	No
224	108	69,120	Greasewood Area	✓	Clark	Bunkerville, Overton	No
Total	12,376	7,920,640	Square miles/acres				

Nevada Hydrologic Regions, Areas, and Sub-Areas Table Notes:

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permitted ground water rights approach or exceed the estimated average annual recharge (i.e., the perennial yield of the basin) and the water resources are being depleted or require additional administration. Under such conditions, and, in the interest of public welfare, the Nevada State Engineer, Division of Water Resources, Department of Conservation and Natural Resources, is authorized by statute (Nevada Revised Statute 534.120) and directed to designate a groundwater basin and declare preferred uses (e.g., municipal and industrial, domestic supply, agriculture, etc.). The State Engineer has additional authority in the administration of the water resources within a designated ground water basin. Designated groundwater basins are also referred to as *Administered Groundwater Basins*.

Source: Office of the State Engineer, Nevada Division of Water Resources, Department of Conservation and Natural Resources.

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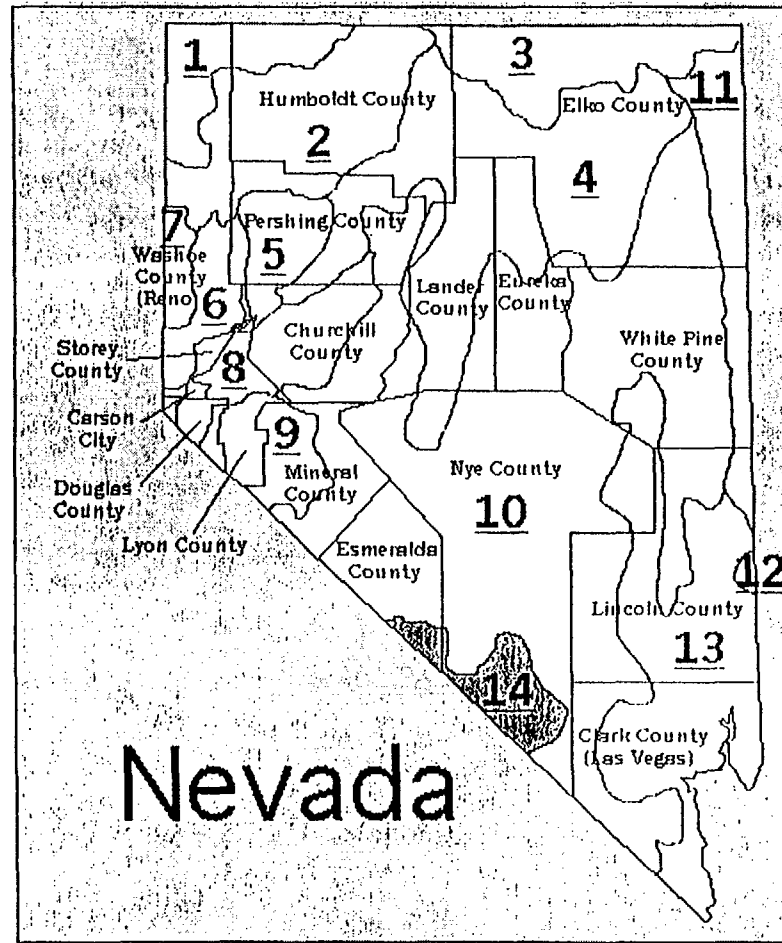
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NEVADA DIVISION OF WATER PLANNING

[14] Death Valley Basin



Verified up to date
with Web Page
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[14] Death Valley Basin—Covers 2,593 square miles (1,659,520 acres) of Nye and Esmeralda counties including eight hydrographic areas, one of which has been divided into two sub-areas.

Hydrographic Areas and Sub-Areas:

[1]	[2]	[3]	[4]	[5]	[6]	[7]
Area	Sq. mi.	Acres	Area/Sub-Area Name	Counties	City(ies)	Des.

225	110	70,400	Mercury Valley	✓	Nye	Indian Springs	No
226	82	52,480	Rock Valley	✓	Nye	Amargosa Valley	No
227A	279	178,560	Fortymile Canyon/Jackass Flats	✓	Nye	Lathrop Wells	No
227B	240	153,600	Fortymile Canyon/Buckboard Mesa	✓	Nye	Lathrop Wells	No
228	460	294,400	Oasis Valley	✓	Nye	Beatty	Yes
229	182	116,480	Crater Flat	✓	Nye	Lathrop Wells, Beatty	No
230	896	573,440	Amargosa Desert	✓	Nye	Beatty, Lathrop Wells	Yes
231	162	103,680	Grapevine Canyon	✓	Esmeralda, Nye	Scottys Junction	No
232	182	116,480	Oriental Wash	✓	Esmeralda	Lida, Goldpoint	No
Total	2,593	1,659,520	Square miles/acres				

Nevada Hydrologic Regions, Areas, and Sub-Areas Table Notes:

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