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LAS VEGAS VALLEY WATER DISTRICT BOX 4427 P. D. ANNEX LAS VEGAS, NEVADA 89106



State of Nevada WATER PLANNING REPORT **GWO I INVESTIGA**

STATE SCHOOL ACA DEPARTMENT OF CONSERVATION SAID NATURAL RESOURCES DIVISION OF WATER RESOURCES

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ROLAND D. WESTENGAND

TO THE CITIZENS OF THE STATE OF NEVADA

This Planning Report ontitled "Neyada's Water Resources" te one of a series of reports being prepared so s part of the development of the State Water Plan. This report was prepared by Bruce R. Scott and Thomas J. Smales of the Division of Water Resources and F. Eugens Rush and A. 5. Van Denburgh of the II, S. Geological Survey.

Most of the information presented in the report is a product of the cooperative program between the U. S. Scological Survey and the State of Nevada. Much of the data are from Water Resources Builetins and Water Resources Reconnaismance Series reports of the Nevada Division of Water Resources, Department of Conservation and Natural Resources.

A hydrologic summary is presented for the State and average annual precipitation, average growing measons, surface water sumoff, ground water recharge, perennial yields, and system yields are given for the 232 hydrographic areas of the state. Also made e part of the report is a map of Nevada which shows estimated amounts of surface and ground water flow between hydrographic areas, both natural and manmade. The map also shows annual runoff, perennial yield and ground water storage in the top 100 feet of saturated deposits.

The larger and better known springs of Nevada are identified in the report and the surface area and capacity of the principal reservoirs and lakes of Nevada are given. Areas known to have poor quality ground water are also shown.

This report constitutes an inventory of the water resources of the State and represents the water supply presently available to Nevada.

Respectfully,

State Engineer

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NEVADA'S WATER RESOURCES

INTRODUCTION

Although water is as necessary to life on earth as air, its supply is not as universally well distributed. It has therefore been the subject of a vest body of research and scientific study.

In an arid state like Nevada, where it is recarded as more valuable than the precious metals lying beneath this rugged terrain, the search for water has inspired hope, dreams — and rumor. And nearly all of these have been as recurring — and as fleeting — as mirages. For instance, someone drilling for oil in the Las Vegas Valley once reported he had "discovered" an underground river — a river so large that it would have solved all of the water problems in southern Nevada for generations. Unhappily, of course, the discovery could never be substantiated.

It is the purpose of this report, the result of 100 years of study and research, to avoid the dreams and rumors, and to lay out the facts and figures regarding Nevada's water resources. Through that method it will underscore the premise that until such time as genuine new underground sources are discovered, or weather modification is perfected, or water imported, Nevada must recognize what her resources are and how best to use them.

PART 1

History

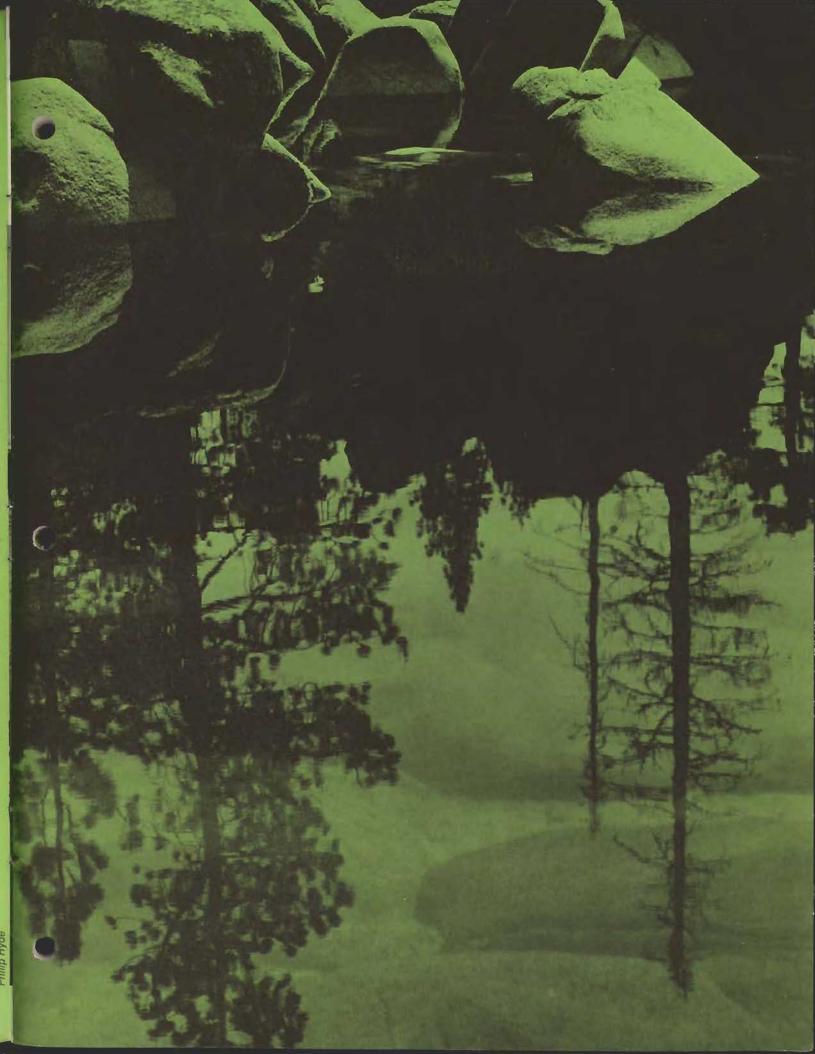
Cultivation in Nevada began in a modern sense almost as soon as the white settlers arrived. As nearly as can be determined, the earliest priority of use of water for irrigation took place in 1848, when a pioneer took water from the Mexican and Dutch Nick

Ditch near Empire, on the Carson River, presumably for the irrigation of meadow grasses. However, the first specific mention in historical records of irrigation was at Mormon Station (now Genoa). Individual settlers raised irrigated crops to support themselves, and to supply the gold seekers who passed through the area on their way to California.

Not long afterwards, a small Mormon outpost at Las Vegas was established as a way station on the road from the Utah settlements to Southern Callfornia points. As near as may be ascertained, the construction on June 18, 1856 of an irrigation diversion in Las Vegas Creek by the Las Vegas colonists — they called this diversion a sect — marked the beginning of the first organized irrigation system in the present State of Nevada. From this diversion a system of ditches was laid out to irrigate the colony's 75 acres of crop and garden area.

Nevada forestar-historian, Victor Goodwin has delved into the history of this modest but successful community at Las Vegas — the first Mormon settlement to be established in Southern Nevada — and written this description, which illustrates the significance of irrigation in those early days to the growth of the arid State of Nevada:

"On June 14, 1855, most of the 30-man colonizing group from Great Salt Lake Valley graved in the Las Vegas Valley meadows, along the Old Spanish Trail about four miles below the two large artesian springs which formed the source of the Las Vegas Wash. (These springs are now incorporated in a large city water reservoir, which covers their site.)



"The colonists wasted no time in starting construction of their settlement. It lay about a mile north of what is now the intersection of Las Vegas Boulevard and Fremont Street in downtown Las Vegas. On June 18, 1855, they began laying out the foundations for a fort, and surveyed and partitioned the farming land into parcels, and made a beginning on an irrigation diversion structure in Las Vegas Creek.

"Below the fort area, the arable land along the stream bottom was divided into 15 five-acre pieces, giving each of the 30 settlers a garden plot of two and one-half acres. The men began clearing off and planting their garden plots that same day — June 18.

"A contemporary description of the settlement site said that a meadow about a half mile wide and two or three miles long bordered Las Vegas Creek. Above this rose the 40 to 50 foot high bench, on the slopes of which the fort was located. Las Vegas Creek (Wash) was pictured at that time as a 'pretty, clear stream of water, about the size of a common millrace' flowing through the valley.

"The last work on the system of irrigation ditches was completed on July 23, a little over a month after the diversion structure in Las Vegas Creek had been started. By early August, the colonists were beginning to harvest their first crops — corn, oats, wheat, and such garden truck as squash, peas, beans, etc. Because of the late start in getting crops planted, the harvest was described as not bountiful, but at least adequate."

Interrelated factors drastically affected the spreading and early development of irrigation in Nevada. Raw, boisterous mining camps sprang up by the score on the Nevada frontier. As western mining camp historian Duane Smith has pointed out, the mushroom growth of these booming urban areas on an otherwise raw and primitive land called for the quick, full-scale development of agriculture, logging, and various service industries near by. This growth also demanded the creation of an efficient network of railroads, stage lines, and toll and freight roads, to transport the needed people, materials and products to the camps, and ore and bullion away from them.

The thirst which these booming early mining

camps had for water is illustrated in the following account of the completion of the pipeline supplying water to Virginia City and Gold Hill. (See Page 13)

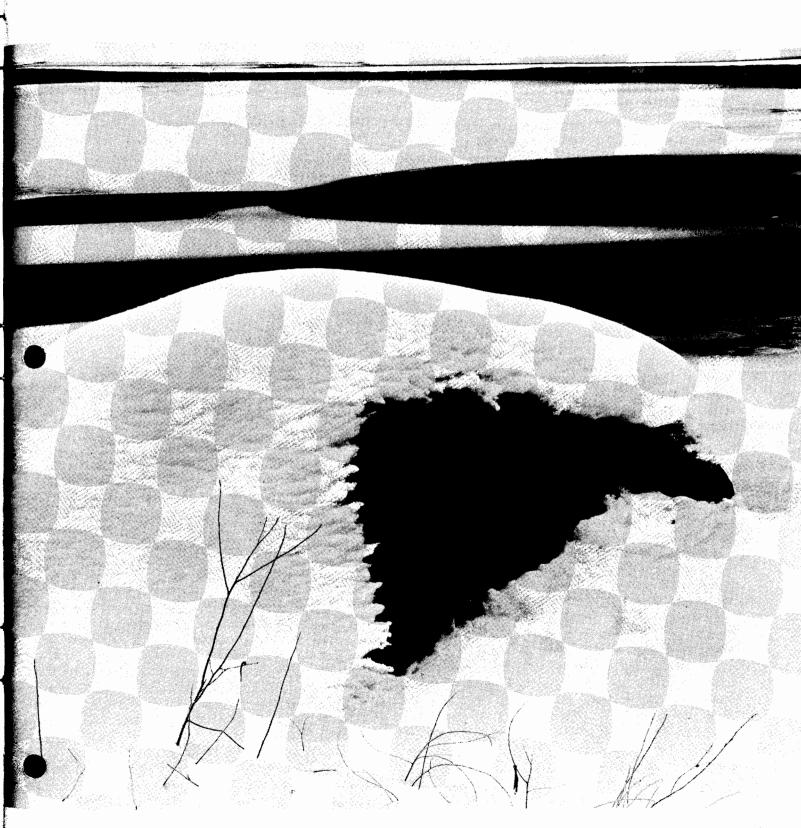
August 2, 1873 - The pouring into this city of Gold Hill of a large stream of water from the Eastern Summit of the Sierra Nevada Mountains at 6:45 last evening, marked an epoch in the history of the Comstock, and was the signal for a general jollification and rejoicing of twelve or thirteen thousand people. Bonfires and rockets girdled old Mt. Davidson for hours and cannons continued to roar until a late hour in the night. A stream of 153 inches of water (about 1717 gallons per minute) poured through the flume into Bullion Ravine, between this city and Gold Hill. The water was turned into the pipe on the Sierra at noon yesterday and reached here in six hours and forty-five minutes. It had been estimated that it would take the stream eight hours to reach here, a distance of twenty miles, 134

Because of the arid nature of the land, only irrigation, in areas where it was even possible, would assure enough food for the camp populations, the freight and stage teams, and the domestic livestock. Moreover, the vast expanses of range land on which the increasing thousands of head of cattle grazed in spring, summer, and fall could not always support them in the winter. That required a home ranch with available feed in the winter — and that, in turn, demanded irrigation.

Much acreage along Carson River from Genoa to Dayton was devoted to producing potatoes, onions, and small vegetables for Virginia City and other western Nevada mining camps. Out of Paradise Valley, Lamoille Valley, and at other locations along the Humboldt River also came grains, fruit and vegetables.

Alfalfa was introduced early in Nevada and, where land and water conditions were favorable, it became the main cultivated hay crop. When the mines were worked out, alfalfa replaced the cultivated truck garden crops which the local markets had depended on in the boom days.

Pumping from wells (ground water) for irrigation became significant about 1950, after the desert land entries began to pick up momentum. Records indicate that individuals have gained private title to



"For the purpose of investigating the extent to which the arid region of the United States can be redeemed by irrigation and the segregation of irrigable lands in such arid region, and for the selection of sites for reservoirs and other hydraulic works necessary for the storage and utilization of water for irrigation and for ascertaining the costs thereof, and the prevention of floods and overflows . . . the work to be performed by the Geological Survey under the direction of the Secretary of the Interior."

In order to carry out this mandate, it was necessary for those responsible for it to learn what quantities of water were available for storage, diversion and utilization in irrigation. But at that time there existed no systematic records of the flow of the streams. In fact, experience was so limited that only a scant body of knowledge was available to guide anyone as to the methods that would best serve in obtaining such records. And no adequate instrument obtaining such records. And no adequate instrument stages and discharge of, streams were available.

As a first and essential step in the investigation, Maj. J.W. Powell, director of the Geological Survey, established a camp at Embudo, New Mexico, on the Rio Grande in December 1888. Its explicit purpose was to teach young men how to use the instruments and apply the methods which would be part and and apply the undeveloped art of stream gaging to practical use.

The first stream measurement in Nevada was made in 1889, but only sporadic measurements were made until 1913. At that time, a series of cooperative agreements made possible the development of a systematic program.

Today's cooperators in that program consist of the Nevada Division of Water Resources, Department of Conservation and Natural Resources; the Nevada Department of Highways; and the California Department of Water Resources. Assisting with funds and services are: U.S. Army Corps of Engineers; Geological Survey, Bureau of Reclamation, Fish and Wildlife Service, Department of Interior; and the Forest Service, Department of Agriculture. Organizations helping to collect data include Clark County Flood Control District, Walker River Irrigation District Truckee-Carson Irrigation District.

approximately 200,000 acres of arable public domain land as a result of their having irrigated portions of it with ground water.

THE RIVERS

The Humboldt River is the only major river which lies entirely within Nevada. Rising in mountainous territory in eastern Nevada, it winds its way westward for 1000 miles, 4 times the airline distance, ending in the Humboldt Sink southwest of Lovelock. The river and its tributaries today furnish irrigation water to approximately 300,000 acres. Most of the early use of its waters was for the irrigation of meadowlands, whereas now it is also used for alfalfa, grain and a variety of row crops — especially in the Lovelock area.

I he earliest priority for water diversion on the Humboldt is dated 1861. But the surge in water rights came in the next decade; most Humboldt River rights have priority dates between 1870 and 1880, although a few have priority dates as late as 1905. However, rights as late as that usually get water for only a short rights as late as that usually get water for only a short period of time in the spring, except in those years when continued stream flows run unusually high and long

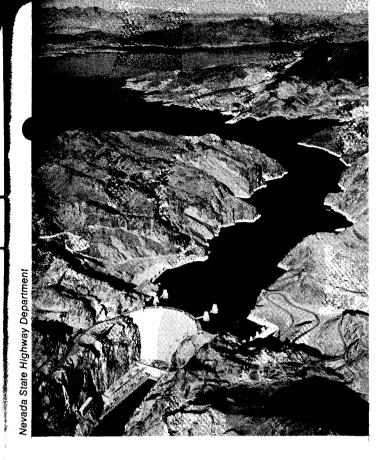
Three western rivers — the Walker, Carson and Truckee — rise in the Sierra Nevada and have their headwaters in California. They flow eastward to end in Walker Lake, Carson Sink and Pyramid Lake, respectively. These rivers discharge a combined flow of roughly 1.1 million ac. ft. annually to Nevada, and furnish irrigation water for approximately one-furnish irrigation water

The many mountain ranges throughout Mevada provide watersheds which accumulate snow during the winter. Heavy runoff from streams in these watersheds occurs during the early spring, but diminishes late in the year to a flow that is usually maintained only by springs.

Irrigated fields receiving this characteristic runoff usually lie high on the alluvial fans adjacent to the mountains where they are able to intercept the streamflow before it dissipates. Brush and rock diversion dams are common methods of controlling the flooding of fields.

Stream Gaging

The Sundry Civil Appropriation Act approved by Congress on Oct. 2, 1888, contained this item:



The system now consists of 135 stream gaging stations. Of these, 16 are in the Colorado River Basin, 21 in the Walker River Basin, 12 in the Carson River Basin, 22 in the Humboldt River Basin, 35 in the uckee River Basin, 13 in the Snake River Basin and 16 on various streams within the state.

However, this does not include all streams in Nevada; it would be almost impossible to maintain a gaging station on each stream in the state. Fortunately a method of estimating the main runoff of ungaged mountain sites using streamflow records and topographic maps has been devised. The Geological Survey Professional Paper 525-D by H.C. Riggs of Washington, D.C. and D.O. Moore of the Carson City office of the Geological Survey describes the method in detail.

Both this method and the records of stream gaging stations have been used in the compilation of Table 4.

GROUND WATER

In 1911 Everett Carpenter made a study of ground water in southeastern Nevada. The results of this and additional observations of wells in the Las Vegas Artesian Basin (made in 1913 by O.E. Meinzer) were published in the Geological Survey Water Supply Paper 365 in 1915. This study was the first ground water investigation in Nevada to be published.

Late in 1905 residents of Las Vegas organized e Vegas Artesian Water Syndicate to prove by test-well drilling the existence of artesian water in Las Vegas Valley. In the spring of 1907 the group drilled

the first flowing artesian well there, and reported a flow of approximately 20 gallons per minute. The syndicate drilled two more successful artesian wells in 1907 and 1908, and several individuals also drilled wells during this period. By the time Carpenter made his study in 1911, he found about 100 deep wells of which 75 were flowing, and about 25 shallow wells.

The first reported attempt to develop artesian water in Pahrump Valley came in 1910 when the Pahrump Valley Land and Irrigation Co. unsuccessfully drilled a well on the Pahrump Ranch.

More successful was F.A. Buol; of four wells he drilled in 1913 just north of the Pahrump Ranch, three encountered artesian water that flowed at the land surface. By 1916, 28 wells dotted Pahrump Valley, 15 flowing. Seven were more than 150 feet deep but were nonflowing, and six were shallow nonflowing wells.

Studies pertaining to ground water were limited to the Las Vegas Valley and Pahrump Valley for many years because residents of other areas in the state were developing their surface waters and were not too interested in ground water.

In 1944 the state engineer entered into a cooperative agreement with the U.S. Geological Survey for a complete study of ground water in Las Vegas Valley and Pahrump Valley. In 1945 the study was expanded statewide.

Success in the development of lands under the Desert Land Act in the 1950's generated interest in many valleys where development opportunities existed, but where no information as to ground water possibilities was available. The 1960 legislature authorized a special ground water reconnaissance survey to make pertinent information immediately available. Most of the valleys in the state are now the subject of the reconnaissance reports or water resources bulletins.

These reports and bulletins were used extensively in the compilation of Table 3.

THE WEATHER

It is an impressive fact that 54 million ac. ft. of water fall on Nevada every year in the form of rain and snow. Much less impressive is the fact that only 3.2 million ac. ft. run off from the mountains, and only 2.2 million ac. ft. recharge our ground water reservoirs. The rest continues in the hydrologic cycle

through evaporation and transpiration.

An estimated 1,320,000 ac. ft. of water which originates in California, Oregon, Idaho and Arizona flow into Nevada. However, there are approximately 850,000 ac. ft. (surface water, plus ground water) which flow from Nevada into California, Oregon, Idaho, Utah and into Lake Mead. (This outflow will be offset somewhat when Nevada uses all of its allocation from the mainstream of the Colorado River — 300,000 ac. ft.)

Another impressive figure is the 25 million ac. ft. of surface water storage capacity in our lakes and reservoirs (excluding Nevada's portion of Lake Mead, Lake Mohave, Lake Tahoe and Topaz Lake). Of the 25 million ac. ft., Pyramid Lake contains approximately 20,500,000 ac. ft. and Walker Lake approximately 3,000,000 ac. ft. The average annual gross evaporation from these two large bodies of water at the volumes shown above is 440,000 ac. ft. and 170,000 ac. ft. respectively.

Weather Modification

On a statewide basis, Nevada is the most arid State in the nation with a mean annual precipitation rate of 9 inches. It is because of this dry environment that in Nevada there is always a greater demand for water than there is water available. It is thus understandable that some of our citizens have caused great uproars over proposals to acquire new sources.

One such incident was the filing of an application for the water of "all the clouds over Nevada that may pass over said ranch", by Richard R. Maman and Freeman E. Fairfield on Nov. 29, 1947. It caused something of a sensation because although rainmakers have plied their trade for centuries, cloud seeding, a scientific approach to weather modification, was an unknown quantity.

When the application was publicly disclosed in an editorial appearing in the Reno Evening Gazette of Dec. 1, 1947, repercussions immediately followed. The first came from the Arizona Cloud Ropers, Inc., originally organized to get even with California over the Colorado River lawsuit. Next the Salt Lake City Chamber of Commerce threatened to go to the federal court for an injunction. This was countered by Nevada's threat to tax Utah for the clouds floating over Nevada.

By Jan. 8, 1948, the issue had grown to such proportions that the London Times, editorially and

gravely, advocated nationalization of moisturebearing clouds and vesting their control in a "board of nebulous planners."

Because of the legal ramifications, the Maman-Fairfield applications became the subject of an article in the Stanford Law Review, and attorneys from New York City, Kansas City and even South Africa made serious inquiries.

Largely as a result of such reverberations, the application was returned to the applicants for additional information. But they apparently had had enough and never pursued it: It was cancelled on March 6, 1950.

Rainmaking, now called weather modification, has been tried in other areas of the state but has met with varying success.

However, the U.S. Bureau of Reclamation has been encouraged in its "Project Skywater", a weather modification program being conducted on the western slopes of the Sierra. The Desert Research Institute of Nevada is presently engaged in a similar project in an attempt to augment the water supply for Pyramid Lake.

Climate

Weather observation is one of the most important sources of information in evaluating water resources. Not surprisingly, much of it is gathered by individual Nevadans.

Among the first contributors to our knowledge of the climate of Nevada were the railroads. In the early days the railroads established many stations along the route to service their trains as they moved across the state and as bases from which to maintain the tracks. They also became locations for the collection of weather observation taken by people who lived along the right-of-way. With the advent of the diesel locomotives, it became possible to decrease the number of stations, but three still continue to compile weather data.

In February, 1887, an act was passed by the Nevada Legislature to establish a weather service in the state. Charles W. Friend, its director, acted as observer at the Carson City observatory — which was the collection point for the Nevada Weather Service — from 1880 to 1906. Except for some of the Southerr Pacific Railroad stations, Carson City has the longest period of recorded weather observation in the state.

A major problem in maintaining the cooperative



weather records in Nevada is the sparse population. We still must rely, because of that, on dedicated individuals to a large extent. Yet a key contributor to our knowledge of Nevada weather is the State Highway Department. Of Nevada's 106 full climatological stations (as of September, 1970) 12 are maintained by this agency — most of them at comparatively remote highway maintenance stations. Although weather reporting means extra work for them, these stations willingly cooperate and are thus invaluable in maintaining continuity of records.

Over half of the full climatological stations are maintained by individuals. Many of these 58 stations are located on isolated ranches, miles from town, some without telephone. Without the excellent records these public-spirited Nevadans keep for their stations our weather knowledge would be seriously limited.

The dean of weather observers in Nevada was C.P. "Pop" Squires of Las Vegas. Born May 22, 1865, he began taking observations in 1909 for publication in his newspaper, the Las Vegas Age. He retired as editor of the paper in 1949, but continued taking observations until January, 1957. Others worked as faithfully.

One such observer was Mrs. Irene (Williams) Metzler of Tuscarora. A life-time Nevada resident, she helped run a cattle ranch, yet found time to maintain a weather station from Nov. 1, 1917, to Nov. 1, 1953.

Another was Mrs. W.H. Churchyard of Yerington, who helped her husband from Jan. 1, 1918, until he died in 1929. Then she took over sole responsibility of maintaining the station, continuing to take observations until her death in 1960.

As might be expected, many state and federal agencies participate in the program, Besides the regular U.S. Weather Bureau and Federal Aviation Agency observers, other cooperators include the Soil Conservation Service, Forest Service, Fish and Wildlife Service, University of Nevada, water conservation districts, Kennecott Copper Corp., Division of Water Resources and many others.

The records compiled by all of these weather observers combine to give us not only a clear and accurate picture of the average annual precipitation, but also such vital information as minimums and maximums, the average growing seasons and the total

precipitation for most of the 254 hydrographic areas and sub-areas of the state.

This information is set out in Table 2 of this report. The weather observer's records are also used to determine recharge to ground water reservoirs listed in Table 3.

PART 2

Source of Data

Data presented in this report are a product of the cooperative program between the U.S. Geological Survey and the State of Nevada. Most of these estimates are from Water Resources Bulletins and Water Resources Reconnaissance Series reports of the Nevada Division of Water Resources — Department of Conservation and Natural Resources.

In Table 1, references are made to these and other reports.

In the following tables, data are presented for 254 subdivisions of the state, called "hydrographic areas". These are grouped into 14 hydrographic regions, or basins. Blank spaces in the tables indicate that those particular units of hydrologic information are unknown or undetermined at this time.

A map of Nevada (Fig. 5, in the pocket attached to the rear cover) shows estimated amounts of surface and ground water flow between hydrographic areas, both natural and man-made. This map also shows — for each hydrographic area where information is available — annual runoff, perennial yield and ground water storage in the top 100 feet of saturated deposits. Note that values on this map have been rounded to the nearest 1,000 ac. ft., and that the arrows shown give only the general area where the estimated flow crosses the hydrographic boundary.

The figures shown on the tables as well as the accompanying map of the state (Figure 5) are estimates. Much of the information presented is based on the results of the Division of Water Resources, Department of Conservation and Natural Resources U.S.G.S. Cooperative Studies. These studies are at reconnaissance level. They are useful for broad planning and general information, but these figures

are not necessarily suitable as a source of information for local or detailed planning.

The word "minor" on both the map and the tables is used to indicate a quantity which is either less than 500 AF/year, or, when compared with other data in a specific hydrographic area, is small. Thus, a "minor" amount in a relatively wet valley could be many times the size of a quantity termed "minor" in a dry area.

The word "some" is used to indicate a significant quantity of water. However, sufficient information is not presently available to make an estimate of the amount.

The general term "hydrographic area" is used mostly in place of "valley". But it also applies to areas called flat, desert, basin, meadow, area, segment, playa, wash, canyon or mesa. The names of the hydrographic areas, in most cases, are the names used by people who live in and near those areas.

Most of the boundary lines of hydrographic areas are drawn along topographic ridges, as interpreted from the most detailed topographic maps available. But in some localities, the lines are drawn across nearly flat alluvial terrain.

THE HYDROGRAPHIC REGIONS

Large-scale unifying hydrographic features which were the general basis for grouping the regions and basins fall into three broad categories: (1) drainage basins of large regional streams; (2) drainage basins that have no large regional stream; and (3) groups of mostly topographically closed valleys.

Those basins in the first category are commonly linear in form, with most valleys forming segments like links of a chain. The regions included in this group are the Snake, Humboldt, Truckee, Carson, Walker and Colorado river basins.

Drainage basins which have no major regional streams (second category) are the Black Rock Desert region and the Great Salt Lake, Escalante Desert and Death Valley basins. In the Nevada parts of these regions, the drainage may enter the sink area from several directions, but carry little streamflow.

The third type of hydrographic regions and sins (closed valleys) is isolated from the other similar groups and includes the Northwest, Western, West Central and Central regions.

Herewith is a brief rundown of the regions and basins.

Northwest Region: Covers 3,073 sq. mi. of Washoe and Humboldt counties; includes 16 hydrographic areas. It is characterized by small, highaltitude valleys and includes a mixture of isolated (topographically closed) and hydrologically connected valleys. It is bounded on the west by California, on the north by Oregon, and on the southeast by the Black Rock Desert region.

Black Rock Desert Region: Covers 8,632 sq. mi. of parts of Washoe, Humboldt and Pershing counties. It includes 17 valleys, two of which are divided into two sub-areas each. It is characterized by both very large and small valleys, most of which are presently or were tributary to the Black Rock and Smoke Creek deserts (areas numbered 28 and 21).

Snake River Basin: Covers 5,230 sq. mi. in parts of Elko and Humboldt counties. The entire basin is drained by the Snake River system in Idaho, which is tributary to the Columbia River. The basin in Nevada includes eight hydrographic areas and is characterized by high tablelands and highlands. Except for Independence Valley (area 36) the basin also includes deep canyons.

Humboldt River Basin: The Humboldt River is the largest stream wholly within Nevada. Its basin includes 34 hydrographic areas, over 16,843 sq. mi. in parts of eight counties. The basin is characterized by moderate to large sized, medium to high altitude valleys that are tributary to the Humboldt River. The river flows westward, generally terminating in Lovelock Valley and White Plains (areas 73 and 74). No topographic divide exists between White Plains and the Carson Desert (area 101), a part of the Carson River Basin. Because water seldom flows between the two areas, and therefore between the two river basins, an arbitrary boundary was established.

West Central Region: Although it includes parts of Pershing, Lyon and Churchill counties, this is a small region, covering only 1,656 sq. mi. and composed of only five hydrographic areas. It is characterized by moderate and small sized, mostly medium altitude valleys and is similar to the Central Region where topographically closed valleys predominate.

Truckee River Basin: Also relatively small (2,300 sq. mi.) this basin includes parts of Washoe, Pershing, Douglas, Ormsby and Storey counties. It contains 12

valleys and river segments of the Truckee River, which ultimately discharge into Pyramid Lake (in area 81), and which at one time also discharged into Winnemucca Lake (in area 80). The basin has small, medium to high altitude valleys. The Truckee Canal now carries much of the Truckee River flow of the Tracy segment (area 83) across the Fernley area (area 76) of the West Central Region to Churchill Valley (area 102) of the Carson River Basin, where it is stored in Lahontan Reservoir for use in the Fallon area.

Western Region: Wholly within Washoe County, it consists of nine valleys, one of which, Lemmon Valley (area 92), is divided into two sub-areas by a low alluvial divide. The region covers 577 sq. mi. and is characterized by small, medium to high altitude, mostly isolated valleys, similar to those which predominate the Central Region.

Carson River Basin: This area's 3,519 sq. mi. cover parts of six counties. It consists of five valleys that ultimately discharge to the Carson Desert (sink). The basin contains moderate to large sized, medium to high altitude valleys and, as explained above, receives flow diverted from the Truckee River Basin and intermittent natural flow from the Humboldt and Walker River Basins.

Walker River Basin: Includes 3,048 sq. mi. of Mineral, Lyon and Douglas counties. The basin is composed of seven hydrographic areas featuring small to moderate sized, medium to high altitude valleys. All areas are drained by the Walker River system which ultimately discharges into Walker Lake (in area 110B). Infrequently — when the Walker River is at high flood stage — Mason Valley (area 108) drains to Churchill Valley (area 102) of the Carson River Basin through Adrian Valley.

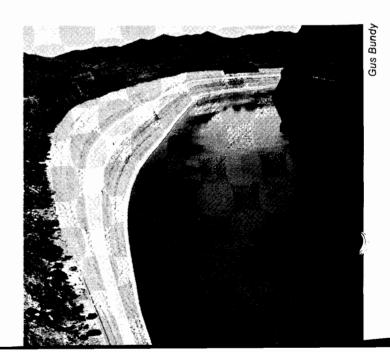
Central Region: This is by far the largest hydrographic region of Nevada; it covers about 46,783 sq. mi. in 12 counties, which is 42 percent of the state. The region includes 89 valleys that are generally large in size, medium to high in altitude, and are mostly isolated, though some have interflow of surface water.

Great Salt Lake Basin: Covers 3,807 sq. mi. of the easternmost parts of Elko, White Pine and Lincoln counties. The basin in Nevada consists of 11 high altitude hydrographic areas that drain eastward to the Great Salt Lake in Utah.

Escalante Desert Basin, also called Escalante Valley: Covers a large area in Utah, but only a very small part of the basin is in Lincoln County, Nevada. Its area in Nevada is only 106 sq. mi. The Nevada part has a high altitude and surface water flows to Utah.

Colorado River Basin: Includes parts of Clark. Lincoln, Nye and White Pine counties and is divided into 27 hydrographic areas covering 12,376 sq. mi. The basin is characterized by small to moderate sized, medium to low altitude valleys. All but three of the hydrographic areas are tributary to the Colorado River system which flows to the Gulf of California. Two of the non-contributing areas - Garnet and Hidden Valleys (areas 216 and 217) - are topographically closed but are completely surrounded by areas that drain to the Colorado River. The third noncontributing area is the southern part of the Three Lakes Valley (area 211). Lee Canyon discharges flood water on an alluvial fan; the flow may go eith eastward to the Colorado River drainage or north ward to the dry lake in the southern part of Three Lakes Valley, depending upon which distributary channels the flow occupies.

Death Valley Basin: The part of the basin in southern Nevada includes nine hydrographic areas and covers 2,593 sq. mi. of Nye and Esmeralda counties. The basin in Nevada is characterized by small to moderate sized, low altitude valleys that are all tributary to Death Valley in California.



Summary of Data

Data are summarized in the tables for each of the 14 hydrographic regions and basins, and a state summary is given at the end of each table. Here are the principal totals for the state:

Acre feet per year, (except as otherwise stated) Precipitation: Estimated annual average 54,000,000 Surface water: Estimated runoff from mountains 3.200,000 Estimated inflow crossing the state line (excluding the Colorado River) 1,300,000 Colorado River 9,700,000 ★Estimated outflow crossing the state line (excluding the Colorado River) 700.000 Colorado River 9,400,000 Surface water storage capacity (excluding Nevada's portion of Lake Mead, Lake Mohave, Lake Tahoe and Topaz Lake in ac. ft.) 25,000,000 Lake Mead (Total Capacity, ac. ft.) 29,700,000 Lake Mohave (Total Capacity, ac. ft.) 1,820,000 Lake Tahoe (Total Capacity, ac. ft.) 122,000,000 Topaz Lake (Total Capacity, ac. ft.) 59.400

valley-fill reservoirs)* Estimated ground water inflow 2,000,000 Estimated ground water outflow 2,000,000

Ground water: (Ground water budget for

Ground water recharge

700,000
000,000
000,000
150,000

▶ Includes 1970 flow to Lake Mead from Las Vegas Wash

* Water underground in a given valley.

HYDROLOGIC SUMMARY

Explanation of Table Headings Table 1

General

As previously indicated, most of the information shown in the tables has been derived as a result of the cooperative program between the Department of Conservation and Natural Resources and the U.S. Geological Survey. The reader is directed to the Reports referenced in Table 1 for more detailed information on the individual hydrographic areas.

Water Budget

Two types of water budget have been computed for the hydrographic areas — a ground water budget for dry areas, and a water resources budget where there are relatively larger amounts of streamflow (see below for details). For a few areas, budgets have been computed identifying the average amount of inflow to and outflow from both the ground water system and the combined surface water and ground water systems.

For natural conditions and over the long term — assuming that climatic conditions remain reasonably constant — ground water inflow to and outflow from an area are about equal. Thus, a ground water budget can be used to: (1) compare the estimates of natural inflow to and outflow from each valley; (2) determine the magnitude of errors in the two estimates provided that one or more elements are not estimated by difference; and (3) select a value that represents both inflow and outflow. This value is listed in Table 1 and is identified by an "a" following the number in the "Water Budget" column in Table 1.

The water resources budget is the quantity selected to represent both inflow and outflow. It is similar to a ground water budget, except that both surface water and ground water inflow and outflow are elements of this budget. This value is identified by a "b" following the number in the "Water Budget" column in Table 1.

Water Yield

2,200,000

3,000

Also computed for the hydrographic areas are two types of water yield — perennial yield and system

yield. The relationship between these is similar to that between the ground water budget and the water resources budget described above; however, because of the uniqueness of the various hydrologic areas scientific judgment is also a factor in interpreting the relationship between water budget and water yield.

Perennial yield of a ground water reservoir may be defined as the maximum amount of ground water that can be salvaged each year over the long term without depleting the ground water reservoir. Perennial yield is ultimately limited to the maximum amount of natural discharge that can be salvaged for beneficial use. Perennial yield cannot be more than the natural recharge to a ground water basin and in some cases is less. An example of such a condition is Pahrump Valley (162). In Pahrump the average annual recharge is estimated to be 22,000 acre feet, however because of the difficulty in salvaging the subsurface outflow from the deep carbonate-rock reservoir, the perennial yield is only 12,000 acre feet. Perennial yield is identified by a "C" following the number under the "Yield" column in Table 1.

System yield is defined as the maximum amount of surface and ground water that can be obtained each year from sources within a system for an indefinite period of time. System yield cannot be more than the natural inflow to or outflow from a system. Generally, estimates of system yield are based on the following limitations and assumptions: (1) present beneficial uses represent salvage and are therefore included; (2) most evapotranspiration discharge can be salvaged; (3) half the surface water outflow and ground water outflow can be salvaged (up to all of the surface water if a dam is feasible); and (4) the estimated system yield is within the limits allowed by legal appropriations and decrees. This value is identified by the "d" following the number in the "Yield" column in Table 1.

Ground Water in Storage

The amount of ground water in storage in a valley reservoir is estimated to average about 10 percent of the volume of the saturated valley fill. The quantities of stored ground water listed in Table 1 are for each (one) foot of thickness. Therefore, the storage in the upper 100 feet of saturated alluvium is 100 times this quantity.

Transitional Storage Reserve

Transitional storage reserve is the quantity of water in storage in a particular ground water reservoir that is extracted during the transition period between natural equilibrium conditions and new equilibrium conditions under the perennial-yield concept of ground water development.

In the arid environment of Nevada, the transitional storage reserve of such a reservoir means the amount of stored water which is available for withdrawal by pumping during the non-equilibrium period of development, (i.e., the period of lowering water levels).

In valleys where natural discharge is partly or entirely by sub-surface outflow, the amount that can be salvaged with a dewatering (taken from storage) of 50 feet is estimated to average roughly 50 percent of the outflow. The transitional storage reserve estimates for the regions are based on an average dewatering of 30 to 40 feet of valley-fill reservoir. These values a shown for each region in Table 1-A.

Report References

References to reports, prepared by the U.S. Geological Survey, describing hydrographic areas are: "R" — Nevada Water Resources Reconnaissance Series Reports; "B" — Nevada Water Resources Bulletins; "W" — Water Supply Paper, U.S. Geological Survey; and "P" — Professional Paper, U.S. Geological Survey.

Region, Basin and State Totals

Note that the total ground water, water resources budgets, perennial yields and system yields for each basin, region or the state are not necessarily the sum of the individual areas. This is because quantities of water circulate among hydrographic areas (valleys) within regions, basins and the state, and therefore must be included in two or more area budgets. All other water quantities are generally additive.

footnote from page 3

¹ From the Virginia Evening Chronicle as quoted by Hugh A. Shamberger in the forthcoming U.S.G.S. Professional Paper 779, "The Story of the Water Supply for the Comstock". p 24.



		NORTHWE	NORTHWEST REGION		1 of 12 Pages
Hydrographic Area Number	Hydrographic Area	Water Budget (Acre-Feet Per Year) a-Ground Water Budget b-Water Resources Budget	Water Yield (Acre-Feet Per Year) c-Perennial Yield d-System Yield	Groundwater in Storage (Acre-Feet Per Foot)	Report Reference
-	Pueblo V.	3,000a	2,000c	2,700	R22
2	Continental Lake V.	10,000a	11,000c	3,800	R22
ဇ	Gridley Lake V.	3,000a	3,000c	2,300	R22
4	Virgin V.	7,000a	6,000 _c	420	'R22
ಬ	Sage Hen V.	< 500a	250c	Minor	R15
9	Guano V.	< 4,000a	2,000c	120	R15
7	Swan Lake V.	< 6,700a	Minor (c)	Minor	R15
80	Massacre Lake V.	3,500a	3,000c	1,400	R15
6	Long V.	12,000a	12,000c	10,000	R15
10	Macy Flat	500a	250c	300	R15
11	Coleman V.	1,000a	1,000c	350	R15
12	Mosquito V.	1,000a	1,500c	470	R15
13	Warner V.	< 1,800a	1,000c	Minor	R15
14	Surprise V.	5,000a	2,500c	520	R15
15	Boulder V.	< 2,700a	2,000c	009	R15
16	Duck Lake V.	8,000a	8,000c	2,600	R17
REGION TOTAL		60,000a	55,000c	29,000	
		BLACK ROCK D	BLACK ROCK DESERT REGION		
Ţ					
17	Pilgrim Flat	500a	200c	09	R44
18	Painters Flat	1,200a	1,200c	140	R44
19	Drv V	200a	1000	1 000	770

Table 1 – 2 of 12 Pages	R44	R44	R44	R20	R11, B37	R20	R20	R20, R22	R20	R4	B31				R7	B34	B34	B34	B34				R48		R48		R8, R48	R48		R48		R48	
L	200	20,000	8,400	20	3,500	610	8,500	630	26,000	18,000	20,000				40,000	16,000	42,000				240,000		Minor		3,600		5,200	2,200		270		Minor	
REGION, continued	25c	16,000c	2,500c	200c	6,700c	5,000c	13,000c	1,000c	30,000c	11,000c	17,000c				9,000,6	2006′9	60,000c				150,000c	/ER BASIN	1,400c	P000'9	8,000c	160,000d	12,000c	7,000c	120,000d	10,000c	110,000d	12,000c	93,000d
BLACK ROCK DESERT REGION, continued	25a	16,000a	2,500a	200a	2,000a	13,000a	15,000a	4,200a	30,000a	11,000a	21,000a	-			9,000a	5,900a	60,000a				150,000a	SNAKE RIVER BASIN	2,700a	12,000b	8,000a	160,000b	12,000a	7,000a	120,000b	16,000a	110,000b	23,000a	95,000b
	Sano V.	Smoke Creek Desert	San Emidio Desert	Granite Basin	Hualapai Flat	High Rock Lake V.	Mud Meadow	Summit Lake V.	Black Rock Desert	Pine Forest V.	Kings River V.	a) Rio King Sub-Area	b) Sod House	Sub-Area	Desert V.	Silver State V.	Quinn River V.	a) Orovada Sub-Area	b) McDermitt	Sub-Area	1		Little Owyhee River	Area	South Fork Owyhee	River Area	Independence V.	Owyhee River Area		Bruneau River Area		Jarbidge River Area	
	20	21	22	23	24	25	26	27	28	29	30				31	32	33				REGION TOTAL		34		35		36	37		38		39	

Hydrographic Area Number 40 S		Water Budget			
	Hydrographic Area	(Acre-Feet Per Year) a-Ground Water Budget b-Water Resources Budget	Water Yield (Acre-Feet Per Year) c-Perennial Yield d-System Yield	Groundwater in Storage (Acre-Feet Per Foot)	Report Reference
	Salmon Fails Creek Area	10,000a	10,000c	3,100	R48
		140,000b	130,000d		
	Goose Creek Area	1,700a	1,700c	089	R48
		47,000b	35,000d		
BASIN TOTAL		80,000a	60,000 _c	15,000	
		9000'089	P000'0Z9 <		
		HUMBOLDT	HUMBOLDT RIVER BASIN		
42	Marys River Area				B32
	Starr Valley Area	> 83,000a	83.000c		B32
			340,000		B32
44	North Fork Area				B32
45 L	Lamoille V.			000'06	B32
46 S	South Fork Area				R35, B32
47	Huntington V.		25,000c		R35, B32
			140,000d		
48	Dixie Creek		_		R35, B32
	Tenmile Creek Area		<u>-</u> i		
49 E	Elko Segment		13,000c		B32
			P000'08Z		
20	Susie Creek Area		90000		B32
			33,000		1
	Maggie Creek Area		٦		B32
52 N	Marys Creek Area		incl. in. 49c	<u> </u>	B32
			incl. in. 49d	ŗ	
53 P	Pine V.	45,000a	20,000c		R2, B32
			30,000		
54 C	Crescent V.		16,000c		B15, B32
D 22	Carico Lake V.		25,000d		R37, B32
			4,000¢		

		HUMBOLDT RIV	HUMBOLDT RIVER BASIN, continued	p			Table 1 - 4 of 12 Pages
56	Upper Reese River V.		37,000c	00			R31, B32
			P000'09	PO			
57	Antelope V.		9,000	Oc			R19, B32
58	Middle Reese River V.	14,000a	14,000c	Qc			R19, B32
- 29	Lower Reese River V.		20,000c	,0c			B32
			28,000	PO			
09	Whirlwind V.						B32
61	Boulder Flat		30,000	000	^_	130,000	B32
			P000'00E	PO			
62	Rock Creek V.		2,800c	00c 10d			B32
63	Willow Creek V.						B32
64	Clovers Area						B32
65	Pumpernickel V.		72,000c	000			B32
			D000'08Z	PQ(
99	Kelly Creek Area		1				B32
29	Little Humbolt V.	26,000b	P000'8	POC			B32
89	Hardscrabble Area	22,000b	34,000c	300			B32
			10	100d			
69	Paradise V.	70,000b	P000'09 [P0(-		B32, B39
70	Winnemucca Segment	18,000a	17,000c)Oc		000'09	B19, B20, B22
			200,000d	P00			B24, B27, B32
71	Grass V.	13,000a	13,000c	20c			B29, B32
			20,000d	P00			
72	Imlay Area		3,000	300	-		R5, B32
73	Lovelock V.	√ 140 000b	43 0000	, oc			B32 B32
			→ 140,000d	p00			
	a) Oreana Sub-Area		-				R32, B32
74	White Plains					4,200	R58
BASIN TOTAL	11	430,000a	430,000c)Oc		280,000	B32
		900,006	P000'006	POC			
							100

Hydrographic Area Number	Hydrographic Area	Water Budget (Acre-Feet Per Year) a-Ground Water Budget b-Water Resources Budget	Water Yield (Acre-Feet Per Year) c-Perennial Yield d-System Yield	Groundwater in Storage (Acre-Feet Per Foot)	Report Reference
75	Bradys Hot Springs Area	2,500a	2,500c	3,500	R55
76	Fernley Area	235,000b	9009	4,200	B17, R57
			235,000d		
77	Fireball V.	200a	100c	1,300	R55
78	Granite Springs V.	4,500a	4,5000c	26,000	R55
79	Kumiva V.	1,000a	500c	10,000	R55
REGION TOTAL		s,000a	8,000c	45,000	
		TRUCKEER	TRUCKEE RIVER BASIN		
80	Winnemucca Lake V.	5,000a	3,300c	009'6	B15, R57
81	Pyramid Lake V.	410,000b	< 10,000c	19,000	R57
82	Dodge Flat	255,000b	255,000d	2,600	R57
83	Tracy Segment	490,000b	490,000d	1,000	R57
84	Warm Springs Area	3,000a	3,000c	4,200	R43, R57
85	Spanish Springs V.	1,000a	1,000c	1,700	R43, R57
		15,000b	15,000d		
86	Sun V.	50a	25c	200	R43, R57
87	Truckee Meadows	580,000b	P000'085	4,500	W1779, R57
88	Pleasant V.	11,000b	11,000d	300	R57
88	Washoe V.	32,000b	25,000d	2,700	R41, R57
06	Lake Tahoe Basin	100,000b	SOME(c)	300	W1972
91	Truckee Canyon Segment	530,000b	520,000d	400	R57
BASIN TOTAL		780,000b	P000'009	47,000	
		WESTER	WESTERN REGION		
92	Lemmon V.	1,500a	1,500c		R43
	a) Western Part			1,100	R43
	b) Eastern Part			1,200	R43
93	Antelope V.	300a	150c	470	R43
Š					

95 Dry V. 96 Newcomb Lake V. 97 Honey Lake V. 98 Skedaddle 99 Red Rock V. 100 Cold Spring V.	2,300a 2,00a 8,000a 1,000a 5,00a	1,000c 200c 8,000c	T. 100	Table 1 – 6 of 12 Pages
	2,300a 200a 8,000a 200a 1,000a 500a 15,000a	1,000c 200c 8,000c	1,100	R43
	200a 8,000a 200a 1,000a 500a	200c 8,000c		
	8,000a 200a 1,000a 500a 15,000a	8,000c	34	R43
	200a 1,000a 500a 15,000a		5,500	R43
	1,000a 500a 15,000a	Minor(c)	Minor	R44
	500a 15,000a	1,000c	640	R43
REGION TOTAL	15,000a	500c	450	R43
		12,000c	11,000	
	CARSON RIVER BASIN	VER BASIN		
101 Carson Desert			85,000	R58
102 Churchill V.			7,400	R58
103 Dayton V.			4,400	R58
104 Eagle V.	15,000b	7,000c	2,000	R39, R58
105 Carson V		10,000d	7 100	P417F R58
IN TOTAL			110 000	
	WALKER RI	WALKER RIVER BASIN		
106 Antelope V.	190,000b	2,600c 190,000d	2,000	R53
107 Smith V.	√ 160,000b		008'6	W1228
108 Mason V.	220,000b	100,0004	29,000	B38
109 East Walker Area	120,0006	2,500c	8,000	R53
 		120,000d		
	1,900a	110,000d	15,000	R 40
	-			
b) Lake Sub-Area	ea 600a	700c	1,000	R40
	200,000b			
c) Whiskey Flat Hawthorne Sub	5,400a ub	5,000c	000'6	R40
BASIN TOTAL	300,000b	P000'00E <	74,000	

Value Budget (Arche-Feet Per Year) (Arche-Feet Per Year) (Arche-Feet Per Year) (Arche-Feet Per Foot) a-Ground Water Resources Budget -Ground Water Budget -Ground Water Budget -Ground Water Budget -Ground Water Budget 1,400e 700e 300e 1,000 RE 2,000a 1,500e 1,000 RE 3,000a 1,500e 1,500e RE 800a 2,000a 3,400 RE 5,000a 5,000a 1,500 RE 5,000a 5,000a 1,500 RE 5,000a 5,000a 1,500 RE 5,000a 5,000a 1,500 RE 6,000a 4,000a 1,700 RE 5,000a 5,000a 1,700 RE 6,000a 2,500a 1,500 RE 6,000a 2,500a 1,500 RE 11,000a 1,500a 1,500 RE 11,000a 1,500a 1,500a RE 11,000a 1,500a			CENTRA	CENTRAL REGION	Table 1	le 1 – 7 of 12 Pages
Alkeif Valley a) Northern Part b) Southern Part 1,400a b) Southern Part 1,400a Monon V. 600a 1,500 Huntoon V. 600a 1,500 1,400a 1,600a 1,000 1,00	Hydrographic Area Number	Hydrographic Area		Water Yield (Acre-Feet Per Year) c-Perennial Yield d-System Yield	Groundwater in Storage (Acre-Feet Per Foot)	Report Reference
al Northern Part 100a 300e 400 Alono V. Southern Part 1,00b 300e 1,000 Mono V. Mono V. 1,00b 300e 1,000 1,000 Huntoon V. 1,00b 1,00b 1,000 1,000 Addobe V. 2,00b 1,00b 1,0	111	Alkali Valley				R52
b) Southern Part 1,400a 700c 1,000 Monor V. 600a 150c 1,200 Adobe V. 1,400a 1,400a 1,50c 1,200 Adobe V. 1,400a 1,500a 1,50c 1,200 Columbus Sate Marsh V. 1,400a 1,500a 1,500c 1,500 Figh Luke Y. 1,000a 1,000a 1,500c 1,500 Columbus Sate Marsh V. 1,000a 1,000c 1,500 Britished Fat 300a 1,500a 1,500c 1,500 Sods Springs V. 1,000a 1,500a 1,500 1,500 Britished Fat 5,000a 5,000c 1,500 Britished V. 1,000a 1,000c 1,500 Britished V. 1,000a 1,500a 1,500 Britished V. 1,000a 1,500a 1,500 Britished V. 1,000a 1,500c 1,		a) Northern Part	300a	300c	400	R52
Mono V. 700a 300c 200 Huntoon V. 1,400a 1,200 2,500 Adobe V. 300a 1,600c 2,500 Adobe V. 1,000a 1,600c 1,000 Fish Laker V. 1,000a 4,000c 1,500 Columbus Salt Marsh V. 1,000a 4,000c 5,300 Rhodds Salt Marsh V. 1,000a 1,000c 5,300 Courted Flat 300a 1,000c 1,500 Sods Salt Marsh V. 1,000a 1,500 1,500 Sods Salt Marsh V. 5,000a 5,000c 1,500 Ball Salt Marsh V. 5,000a 5,000c 1,500 Branks V. 5,000a 5,000c 1,500 Branks V. 1,000a 1,500 1,500 Branks V. 1,000a 1,000c 1,500		b) Southern Part	1,400a	700c	1,000	R52
Table March V. 600e 150c 1,200 Adobe V. 300e 1,400c 2,600 Adobe V. 3,000e 1,50c 1,000 Couren V. 1,000e 1,000c 1,000 Fish Lake V. 1,000e 1,000c 1,530 Columbus Salt Marsh V. 1,000e 1,000c 1,530 Antield Flat 300e 1,000c 1,500 Antield Flat 300e 200c 1,500 Soda Springs V. 5,000e 1,500 2,800 Barlings V. 5,000e 5,000c 1,500 Burkings V. 5,000e 5,000c 1,500 Cowkick V. 5,000e 5,000c 1,500 Burkings V. 11,000a 5,000c 1,500 Burking V. 11,000a 1,500 1,500 Burking V. 11,000a 1,500 1,500 Burking V. 1,000a 2,600c 1,500 Burking V. 6,000a 2,600c 1,500 Burki	112	Mono V.	700a	300c	200	R52
Teets March V. 1,400a 1,400c 2,600 Adobe V. 300a 1,600c 1,000 Cuentry 2,000a 19,000c 1,000 Fish Lake V. 1,000a 1,000c 1,600 Rhodes Salt Marsh V. 1,000a 1,000c 5,300 Rhodes Salt Marsh V. 1,000a 1,000c 1,500 Sodel Springs V. 300a 2,00c 4,300 Sodel Springs V. 800a 800a 1,500 Jeake S. V. 5,000a 5,00c 1,500 Babbs V. 5,000a 5,00c 1,500 Faircine V. 5,000a 5,00c 1,500 Simpare V. 5,000a 5,00c 1,500 Simpare V. 5,000a 5,00c 1,500 Burlario V. 15,000a 2,600c 1,500 Burlario V. 10,00da 1,500c 1,500 Burlario V. 10,00da 1,000c 1,500 Burlario V. 5,00da 1,00dc 1,500	113	Huntoon V.	600a	150c	1,200	R52
Adobe V. Outleen V. Jodge 19,000e 19,000e 10,000e 10	114	Teels Marsh V.	1,400a	1,400c	2,600	R52
Cluster IV. 2,000a 19,000e 1,000c 1,000c 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 3,400 1,000 3,400 1,500 3,400 1,500 3,400 1,500 3,400 1,500 3,400 3,500 4,300 2,400 4,300 2,400 2,400 2,400 2,400	115	Adobe V.	300a	150c	20	R52
Figh Lake V. 19,000e 19,000c 16,000	116	Queen V.	2,000a	2009	1,000	R52
Columbus Salt Marsh V. 1,000a 1,000c 3,400 Rhodes Salt Marsh V. 1,000a 1,000c 3,400 Sada Springs V. 800a 1,000c 1,500 b) Western Part 800a 6,000c 1,500 b) Western Part 800a 6,000c 1,500 cabbs V. 6,000a 6,000c 1,300 Fairview V. 6,000a 1,500c 1,500 Easigate Valley Area 4,000a 1,500c 1,500 Easigate Valley Area 4,000a 1,500c 1,500 Easigate Valley Area 1,500c 1,500c 1,500 Easigate Valley Area 1,500c 1,500c 1,500 Easigate Valley Area 1,500c 1,500 1,500 Edwards Creek V. 1,000c 1,500 1,500 Edwards Creek V. 1,00	117	Fish Lake V.	19,000a	19,000c	16,000	811
Rhodes Salt Marsh V. 1,000a 3,400 Soda Springs V. 300a 1,500 a) Esstern Part 800a 600c 1,500 b) Western Part 300a 200c 2,800 Cabbs V. 5,000a 5,000c 16,000 Rawhide Flats 500a 5,000c 16,000 Fairview V. 5,000a 2,800 1,300 Fairview V. 6,000a 2,500c 1,300 Cowkick V. 6,000a 2,600c 1,700 Eastgate Valley Area 4,000a 1,700 Eastgate Valley Area 4,000a 1,700 Buena Vista V. 11,000a 1,500c 6,200 Burrasey V. 500a 2,600c 6,200 Burrilio V. 10,000a 1,000c 1,500 Lewards Creek V. 8,000a 2,500c 1,500 Monte Cristo V. 6,000a 10,000c 1,500 Monte Cristo V. 400a 6,000c 1,500 b) Northern Part 14,000a	118	Columbus Salt Marsh V.	4,000a	4,000c	5,300	R52
Garfield Flat 300a 150c 1,500 Sodd Springs V. a) Eastern Part 800a 4,300 b) Western Part 800a 200c 4,300 Gabbs V. 5,000a 5,000c 16,000 Rawhide Flats 500a 500c 600 Fairview V. 500a 250c 7,800 Shingaree V. 4,000a 7,800 1,700 Eastgate Valley Area 4,000a 7,500c 1,700 Dixie V. 11,000a 1,500c 1,700 Buffalo V. 11,000a 1,000c 2,500c Buffalo V. 5,00a 8,000c 1,500 Buffalo V. 10,000a 10,000c 1,500 Jersey V. 6,000a 8,000c 1,500 Ione V. 6,000a 10,000c 13,000 Big Smoky 2,500c 13,000 Big Smoky 4,000e 6,000a 10,000c Big Smoky 10,000e 10,000c 10,000c Big Smoky	119	Rhodes Salt Marsh V.	1,000a	1,000c	3,400	R52
Soda Springs V. 800e 600c 4,300 b) Western Part 30e 2,00c 2,800 Gabbs V. 5,00e 5,00e 16,000 Rawhide Flats 5,00e 2,60c 16,000 Fairview V. 500e 2,60c 1,300 Stringaree V. 4,00d 4,00d 1,700 Cowkick V. 4,00de 4,00de 1,700 Essigat Vailey Area 4,00de 4,00de 1,700 Dixie V. 15,00de 2,60de 35,00d Burra Vista V. 11,00da 10,00dc 35,00d Buffalo V. 12,00da 2,60dc 17,00d Buffalo V. 10,00da 10,00dc 17,00d Jersey V. 5,00d 8,00dc 10,00dc 10,00d Jone V. 6,00de 2,60dc 11,00d 10,00dc Jone V. 6,00de 2,60dc 11,00d 10,00d 10,00d Jone V. 6,00de 4,00d 7,00d 10,00d 10,00d	120	Garfield Flat	300a	150c	1,500	R52
b) Western Part 300e 600c 4,300 Cabbs V. 5,000a 5,000a 5,000c 16,000 Fairview V. 5,000a 5,000a 5,000c 16,000 Stingaree V. 5 100a 5,000a 5,000c 17,300 Cowkick V. 5 800a 5,000c 17,000 Buena Vista V. 11,000a 10,000c 17,000 Buffalo V. 500a 5,000c 17,000 Cawards Creek V. 5,000a 10,000c 17,000 Cawards Creek V. 6,000a 11,000c 17,000 Cawards Creek V. 6,000a 11,000c 17,000 Cawards Creek V. 6,000a 11,000a 17,000	121	Soda Springs V.		-		R52
b) Western Part 300a 200c 2,800 Gabbs V. Rawhide Flats 5,000a 5,000c 16,000 Stingaree V. 5,000a 500e 7,800 Stingaree V. 5,000a 6,000a 1,300 Cowkick V. 5,000a 7,800a 7,800 Stingaree V. 15,000a 7,800a 1,2000 Dixie V. 15,000a 11,000a 15,000c 1,900 Burfalo V. 12,000a 11,000a 1,000c 1,000 Burfalo V. 12,000a 10,000c 1,000c 1,000 Smith Creek V. 6,000a 10,000c 1,200 Monte Cristo V. 400a 6,000a 1,000c 1,200 Big Smok y. 14,000a 6,000a 6,000c 1,000c		a) Eastern Part	800a	0009	4,300	R52
Gabbs V. 5,000e 5,000c 16,000 Rawhide Flats 500e 5,00c 16,000 Earview V. 500e 250c 7,800 Stingaree V. < 100a < 100c 1,300 Cowk ick V. < 800a < 4,000c 1,700 Eastgate Valley Area < 4,000a < 4,000c 1,700 Dixie V. 11,000a 15,000c 35,000 Buena Vista V. 11,000a 2,600c 24,000 Pleasant V. 3,000a 8,000c 2,600c 6,200 Buffalo V. 12,000a 8,000c 1,600 1,600 Edwards Creek V. 8,000a 8,000c 1,600 1,500 Smith Creek V. 10,000a 10,000c 1,500 1,500 Ione V. 400c 2,500c 1,500 Big Smok V. 400c 6,000c 1,000 Big Smok V. 14,000a 6,000c 1,000 1,000 b) Northern Part 65,000c 6,000c 1,000 <th< td=""><td></td><td>b) Western Part</td><td>300a</td><td>200c</td><td>2,800</td><td>R52</td></th<>		b) Western Part	300a	200c	2,800	R52
Rawhide Flats 500a 500c 600 Fairview V. 500a 250c 7,800 Stingaree V. < 100a	122	Gabbs V.	5,000a	5,000c	16,000	R9
Fairview V. 500a 250c 7,800 Stingaree V. < 100a	123	Rawhide Flats	500a	500c	009	R40
Stingaree V. < 100a < 100c 1,300 Cowkick V. < 800a < 800c 1,700 Eastgate Valley Area < 4,000a 1,900 1,900 Dixie V. 15,000a 15,000c 24,000 Burna Vista V. 11,000a 2,600c 6,200 Burfalo V. 12,000a 8,000c 17,000 Jersey V. 8,000a 8,000c 17,000 Edwards Creek V. 8,000a 8,000c 10,000c 15,000 Smith Creek V. 6,000a 2,500c 13,000 Monte Cristo V. 4,000c 13,000 7,200 Big Smoky 14,000a 6,000c 6,000c 50,000 b) Northern Part 65,000e 65,000c 50,000	124	Fairview V.	500a	250c	7,800	R23
Cowkick V. < 800a < 800a 1,700 Eastgate Valley Area < 4,000a	125	Stingaree V.			1,300	R23
Eastgate Valley Area < 4,000a 1,900 Dixie V. 15,000a 15,000c 35,000 Buena Vista V. 11,000a 24,000 24,000 Pleasant V. 12,000a 8,000c 6,200 Buffalo V. 500a 250c 1,600 Edwards Creek V. 8,000a 8,000c 7,000 Smith Creek V. 6,000a 10,000c 15,000 Ione V. 6,000a 2,500c 13,000 Big Smoky 14,000a 6,000c 7,200 b) Northern Part 65,000e 65,000c 50,000	126	Cowkick V.			1,700	R23
Dixie V. 15,000a 15,000c 35,000 Buena Vista V. 11,000a 2,600c 24,000 Pleasant V. 12,000a 8,000c 17,000 Buffalo V. 500a 2,600c 1,600 Jersey V. 6,000a 8,000c 7,000 Smith Creek V. 10,000a 10,000c 15,000 Ione V. 6,000a 2,500c 13,000 Big Smoky 14,000a 6,000c 7,200 b) Northern Part 65,000a 65,000c 50,000	127	Eastgate Vailey Area			1,900	R23
Buena Vista V. 11,000a 10,000c 24,000 Pleasant V. 3,000a 2,600c 6,200 Buffalo V. 12,000a 17,000 17,000 Jersey V. 8,000a 250c 1,600 Edwards Creek V. 8,000a 7,000 Smith Creek V. 6,000a 15,000 Ione V. 6,000a 13,000 Monte Cristo V. 400a 7,200 Big Smoky 14,000a 6,000c 7,000 b) Northern Part 65,000a 65,000c 50,000	128	Dixie V.	15,000a	15,000c	35,000	R23
Pleasant V. 3,000a 2,600c 6,200 Buffalo V. 12,000a 8,000c 17,000 Jersey V. 500a 250c 1,600 Edwards Creek V. 8,000a 7,000 Smith Creek V. 10,000a 15,000 Ione V. 6,000a 2,500c 13,000 Monte Cristo V. 400a 7,200 Big Smoky 14,000a 6,000c 70,000 b) Northern Part 65,000a 65,000c 50,000	129	Buena Vista V.	11,000a	10,000c	24,000	813
Buffalo V. 12,000a 8,000c 17,000 Jersey V. 500a 250c 1,600 Edwards Creek V. 8,000a 7,000 Smith Creek V. 10,000a 10,000c 15,000 Ione V. 6,000a 2,500c 13,000 Monte Cristo V. 400c 7,200 Big Smoky 14,000a 6,000c 70,000 b) Northern Part 65,000a 65,000c 50,000	130	Pleasant V.	3,000a	2,600c	6,200	R23
Jersey V. 500a 250c 1,600 Edwards Creek V. 8,000a 7,000 7,000 Smith Creek V. 10,000a 10,000c 15,000 Ione V. 6,000a 2,500c 13,000 Monte Cristo V. 400a 7,200 Big Smok y. 14,000a 6,000c 70,000 b) Northern Part 65,000a 50,000	131	Buffalo V.	12,000a	8,000c	17,000	R32
Edwards Creek V. 8,000a 7,000 Smith Creek V. 10,000a 15,000 lone V. 6,000a 2,500c 13,000 Monte Cristo V. 400a 7,200 Big Smoky. 114,000a 6,000c 70,000 b) Northern Part 65,000a 65,000c 50,000	132	Jersey V.	500a	250c	1,600	R23
Smith Creek V. 10,000a 15,000 Ione V. 6,000a 2,500c 13,000 Monte Cristo V. 400a 400c 7,200 Big Smok y. a) Tonopah Flat 14,000a 6,000c 70,000 b) Northern Part 65,000a 50,000 50,000	133	Edwards Creek V.	8,000a	8,000c	7,000	R26
lone V. 6,000a 2,500c 13,000 Monte Cristo V. 400c 7,200 Big Smoky 14,000a 6,000c 70,000 b) Northern Part 65,000c 50,000	134	Smith Creek V.	10,000a	10,000c	15,000	R28
Monte Cristo V 400a 7,200 Big Smoky 14,000a 6,000c 70,000 b) Northern Part 65,000a 50,000	135	Ione V.	6,000a	2,500c	13,000	R 28
Big Smoky a) Tonopah Flat 14,000a 6,000c 70,000 b) Northern Part 65,000a 65,000c 50,000	136	Monte Cristo V.	400a	400c	7,200	R52
14,000a 65,000c 50,000	137	Big Smoky				B41
65,000c 65,000c 50,000		a) Tonopah Flat	14,000a	6,000	70,000	B41
		b) Northern Part	65,000a	65,000c	50,000	B41

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		CENI HAL HEC	CENI RAL REGION, continued	1 30	lable I — 8 of 12 rages
138	Grass V.	13,000a	13,000c	16,000	R37
139	Kobeh V.	16,000a	16,000c	27,000	R30
140	Monitor V.				R30
	a) Northern Part	8,000a	8,000	10,000	R30
	b) Southern Part	13,000a	10,000c	10,000	R30
141	Ralston V.	8,000a	9000'9	27,000	R12, R45
142	Alkali Spring V. (Esmeralda)	5,500a	3,000c	13,000	R45
143	Clayton V.	20,000a	20,000c	13,000	R45
144	Lida V.	700a	350c	15,000	R45
145	Stonewall Flat	100a	100c	8,200	R45
146	Sarcobatus Flat	3,000a	3,000	24,000	R10, R54
147	Gold Flat	3,800a	1,900c	16,000	R54
148	Cactus Flat	600a	300c	14,000	R54
149	Stone Cabin V.	5,000a	2,000c	22,000	R12, R45
150	Little Fish Lake V.	10,000a	10,000c	8,000	R38
151	Antelope V. (Eureka & Nye)	4,000a	4,000c	12,000	R30
152	Stevens Basin	200a	100c	200	R30
153	Diamond V.	30,000a	30,000°	28,000	R6, B35
154	Newark V.	18,000a	18,000c	15,000	R1
155	Little Smoky V.				R38
-	a) Northern Part	6,000a	5,000c	15,000	R38
	b) Central Part	200a	100c	1,000	R38
	c) Southern Part	2,000a	1,000c	9,400	R38
156	Hot Creek V.	6,500a	5,500c	23,000	R38
157	Kawich V.	4,500a	2,200c	009'6	B12, R54
158	Emigrant V.				R54
	a) Groom Lake V.	3,200a	2,800c	16,000	R54
	b) Papoose Lake V.	< 10a	< 10c	Minor	R54
159	Yucca Flat	700a	350c	5,200	R54
160	Frenchman Flat	32,700a	16,000c	006'2	R54
161	Indian Springs V.	32,000a	500c	18,000	R54
162	Pahrump V.	22,000a	12,000c	23,000	W1832
163	Mesquite V.	2,200a	2,200c	7,000	R46
	(Sandy V.)				

Hydrographic Area Hydrographic Area	# Budget eet Per Year) Water Budget sources Budget 1,500a 500a 100a Minor (a) 1,100a 8,000a 6,000a	Water Yield c-Perennial Yield d-System Yield d-System Yield 700c 250c 50c Minor(c) 500c 4,000c 5,000c 6,000c	Groundwater in Storage (Acre-Feet Per Foot) 7,400 1,000 3,200 800 14,000 8,300	Report Reference R46 R46 R46 R46 R46 R46 R46 R46 R46
lvanpah V. a) Northern Part b) Southern Part Jean Lake V. Hidden Valley (South) Eldorado V. Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part b) Southern Part	1,500a 500a 100a 1,100a 8,000a 6,000a	700c 250c 50c Minor(c) 500c 4,000c 3,000c 5,000c	7,400 1,000 3,200 800 14,000 8,300	R46 R46 R46 R46 R46
a) Northern Part b) Southern Part Jean Lake V. Hidden Valley (South) Eldorado V. Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part b) Southern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Bailroad V. A Southern Part b) Northern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. Butte V. Butte V. Butte V. Butte V.	1,500a 500a 100a 1,100a 8,000a 2,600a 6,000a	700c 250c 50c Minor(c) 500c 4,000c 3,000c 5,000c	7,400 1,000 3,200 800 14,000 8,300	
b) Southern Part Jean Lake V. Hidden Valley (South) Eldorado V. Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part b) Southern Part Penoyer V. (Sand Springs V.) Coal V. (Sarden V. Railroad V. a) Southern Part b) Northern Part b) Northern Part b) Northern Part a) Southern Part b) Northern Part b) Northern Part b) Southern Part b) Southern Part b) Southern Part	500a 100a 1,100a 8,000a 2,600a 6,000a	250c 50c Minor(c) 500c 4,000c 1,300c 3,000c 5,000c	1,000 3,200 800 14,000 8,300	R 46 R 46 R 46 R 36
Jean Lake V. Hidden Valley (South) Eldorado V. Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part b) Southern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Raifroad V. a) Southern Part b) Northern Part b) Northern Part clong V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part	100a nor (a) 1,100a 8,000a 2,600a 6,000a	50c Minor(c) 500c 4,000c 3,000c 5,000c	3,200 800 14,000 8,300	R 46 R 46 R 36
Hidden Valley (South) Eldorado V. Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part Long V. Ruby V. Clover V. Butte V. Butte V. Steptoe V.	nor (a) 1,100a 8,000a 2,600a 6,000a	Minor(c) 500c 4,000c 1,300c 3,000c 5,000c	800 14,000 8,300 14,000	R46 R36
Eldorado V. Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part Benoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part Long V. Ruby V. Clower V. Butte V. a) Northern Part b) Southern Part Long V. Ruby V. Steptoe V.	1,100a 8,000a 2,600a 6,000a	500c 4,000c 1,300c 3,000c 5,000c	14,000 8,300 14,000	R36
Three Lakes V. (Northern Part) Tikapoo Valley a) Northern Part b) Southern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part b) Southern Part	8,000a 2,600a 6,000a	4,000c 1,300c 3,000c 5,000c	8,300	2
Tikapoo Valley a) Northern Part b) Southern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. A) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part	2,600a 6,000a	1,300c 3,000c 5,000c 6,000c	14,000	R54
a) Northern Part b) Southern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part	2,600a 6,000a	1,300c 3,000c 5,000c 6,000c	14,000	R54
b) Southern Part Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part b) Southern Part	e)000°9	3,000c 5,000c 6,000c		R54
Penoyer V. (Sand Springs V.) Coal V. Garden V. Railroad V. a) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part		5,000c	7,500	R54
Coal V. Garden V. Railroad V. By Northern Part b) Northern Part Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.	5,000a	2000′9	22,000	B12
Garden V. Railroad V. a) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part b) Southern Part	10,000a		15,000	R18, B33
Asilroad V. a) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.	10,000a	6,000c	15,000	R18, B33
a) Southern Part b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.	51,000a	50,000c		B12
b) Northern Part Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.			21,000	B12
Jakes V. Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.			000'09	B12
Long V. Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.	25,000a	12,000c	008'6	B33
Ruby V. Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.	10,000a	90000	16,000	R3, B33
Clover V. Butte V. a) Northern Part b) Southern Part Steptoe V.	e8,000a	53,000c	33,000	B12
Butte V. a) Northern Part b) Southern Part Steptoe V.	20,000a	20,000c	15,000	B12
a) Northern Part b) Southern Part Steptoe V.				R49
b) Southern Part Steptoe V.	6,300a	6,000c	008'6	R 49
Steptoe V.	14,000a	14,000c	22,000	R49
	70,000a	70,000c	20,000	R42
	120,000b	120,000d		
180 Cave V.	14,000a	2,000c	10,000	R13, B33
181 Dry Lake V.	5,000a	2,500c	28,000	R16, B33
182 Delamar V.	6,000a	3,000c	12,000	R16, B33
183 Lake V.	12,000a	12,000c	18,000	R24
184 Spring V.	75,000a	100,000c	42,000	R33
10	100,000b	100,000d		

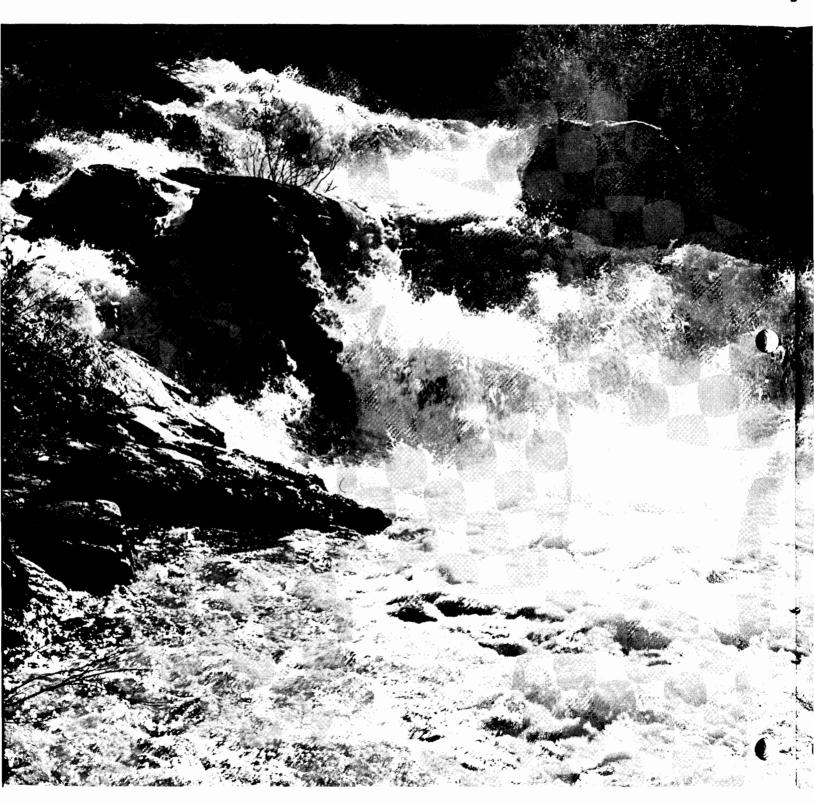
- 10 of 12 Pages		R56		R56																						
Table 1 – 10	R56	B12, R56	R56	B12, R56	B12	B12			R47	R47	R47	R47	R47	R47	R56	R56	R56	R34	R34	R34			R51		R27	R27
L	11,000		2,800	7,100	22,000	18,000	1,200,000			4,600	20,000	3,600	9,700	170	11,000	10,000	2,600	420	13,000	12,000	87,000		1,900		3,600	800
JN, continued	3,500c		800c	1,700c	11,000c	9,000	800,000c	AKE BASIN	24,000d	5,800d	6,400d	D000,2	16,000d	< 350c	4,500c	2,000c	2,000c	1,500c	> 25,000c	5,000		DESERT	1,000c	/ER BASIN	1,000c	< 100c
CENTRAL REGION, continued	7,000a		4,500a	3,500a	12,000a	9,400a	860,000a	GREAT SALT LAKE BASIN	30,000b	8,000b	19,000b	5,000b	17,000b	700a	4,500a	16,000a	4,200a	3,000a	> 40,000a	10,000a		ESCALANTE DESERT	2,300a	COLORADO RIVER BASIN	1,300a	100a
	Tippett V.	Antelope V. (White Pine & Elko)	a) Southern Part	b) Northern Part	Goshute V.	Independence V.	71		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.)	Grouse Creek V.	Pilot Creek V.	Great Salt Lake Desert	Deep Creek V.	Pleasant V.	Snake V.	Hamlin V.			Escalante Desert		Dry V.	Rose V.
	185	186			187	188	REGION TOTAL		189					190	191	192	193	194	195	196	BASIN TOTAL		197		198	199

Actor State (bit of the broken) (Webt Budget) (Actor State) Response R			COLORADO RIVE	COLORADO RIVER BASIN, continued	Table 1	le 1 – 11 of 12 Pages
Eagle V. 1,100h 300c 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,900c	Hydrographic Area Number	Hydrographic Area	Water Budget (Acre-Feet Per Year) a-Ground Water Budget b-Water Resources Budget	Water Yield (Acre-Feet Per Year) c-Perennial Yield d-System Yield	Groundwater in Storage (Acre-Feet Per Foot)	Report Reference
Spring V. 10,000e 5,1000e 8,000 Patterson V. 9,000e 4,500c 14,000 Pamaca V. 10,000e 1,000c 14,000 Chower V. 1,000e 5,000c 14,000 Chower V. 1,000e 5,000c 28,000 Patra Minde V. Wesh 1,000e 2,000c 1,000c Patra Minde V. Morth 1,000e 2,000c 1,000c Patra Morth 1,000e 3,000c 1,000c Patra Morth 1,000e 3,000c 1,000c Patra Morth 1,000e 1,000c 1,000e Patra Morth 1,00	200	Eagle V.	1,100a	3000	1,800	R27
Subsidies Subs	201	Spring V.	10,000a		8,000	R27
Patterson V. 9,000a 4,500c 18,000 Clower V. 1,000a 9,000c 14,000 Clower Mandow V Wash 8,400a 1,000c 28,000 Clower Mandow V Wash 8,400a 37,000c 13,000 Patronagat V. 27,000a 18,000c 13,000 Patronagat V. 37,000a 18,000c 13,000 Patronagat V. 37,000a 18,000c 13,000 Patronagat V. 37,000a 18,000c 15,000 Covole Spring V. 30,000a 25,000c 15,000 Las Vagas V. 30,000a 25,000c 15,000 Bisk Mountains Area 12,000a 37,000c 15,000 Bisk Mountains Area 12,000a 37,000c 15,000 Colicado River V. 35,000b 37,000c 25,000 Hidden V. (North) 400a 37,000c 15,000 Control Moud River V. 35,000b 35,000d 29,000 Control Moud River V. 35,000b 36,000d 10,000 Control Moud River V. 17,000a 10,000c 10,000 Control Moud V. 17,000a 10,000c 10,000 Control Moud V. 17,000a 10,000c 10,000 Control Moud V. 17,000a 17,000a 15,000 Control Moud River V. 17,000a 17,000a 15,000 Control Moud River V. 17,000a 17,000a 15,000 Control Moud V. 17,000a 17,000a Control Moud V. 17,000a 17,000a Control Moud V. 17,0				9000°S		
Panisca V 10,000e 9,000c 14,000	202	Patterson V.	9,000a	4,500c	18,000	R27
Clover V, 1,700e 1,000c 26,500 Clover Maradow V Wash 8,400a 1,000c 26,500 Kare Springs V, 500a Minor(e) 4,000 White River V, 77,000a 21,000c 13,000 Pahrangst V, 60,000a 27,000c 13,000 Pahrangst V, 10,700a 18,000c 13,000 Covera Springs V, 30,000a 25,000c 13,000 Las Vagas V, 10,700a 26,000c 12,000 Las Vagas V, 1,100a 20,000c 12,000 Huter V, 1,100a 20,000c 15,000 Back Mountains Area 12,000c 34,000 15,000 Garnet V,	203	Panaca V.	10,000a	9,000c	14,000	R27
Lower Mestlow V, Wash 8,400s 5,000c 28,000	204	Clover V.	1,700a	1,000c	6,500	R27
Kane Springs V. 500a Minorite 4,000 White River V. 77,000a 37,000c 49,000 Pahracy V. 42,000a 21,000c 17,000 Pahracy V. 37,000a 25,000c 17,000 Covore Spring V. 10,700a 18,000c 17,000 Three Lakes V. 10,700a 25,000c 8,600 Las Vagas V. 200a 11,000 10,000 Colorado River V. 1,100a 600c 12,000 Piute V. 1,100a 600c 15,000 Black Mountains Area 12,000b 7,000d 15,000 Garnet V. 1,100a 36,000 1,500 Muddy River Springs 37,000a 36,000 1,500 Muddy River Springs 37,000a 36,000 1,000 Virgin River V. 170,000a 36,000 1,000 Virgin River V. 170,000a 300c 2,000 Cold Butte Area 1,000a 300c 10,000 Gressewood Basin 600a	205	Lower Meadow V. Wash	8,400a	5,000c	28,000	R27
White River V. 77,000e 37,000c 49,000 Pahron St. 42,000b 21,000c 13,000 Pahron St. 37,000e 18,000c 18,000 Covinte Spring V. 10,700a 8,600 18,000 Three Lakes V. 10,700a 8,600 11,000 Las Vegas V. 30,000a 11,000 8,600 Las Vegas V. 30,000a 11,000 8,600 Polus V. 1,100a 400a 12,000 Black Mountains Area 12,000b 10,000 10,000 Garnet V. 1,100a 36,000c 1,500 Hidden V. (North) 400a 36,000c 1,500 Hidden V. (North) 43,000b 36,000c 5,000 Area (Upper Moapa V.) 35,000e 35,000c 5,000 Area (Upper Moapa V.) 170,000e 100,000d 22,000 Gold Butte Area 1,000e 500c 20,000c Gold Butte Area 1,000e 500c 20,000c Gold Butte Area 1,000e	506	Kane Springs V.	500a	Minor(c)	4,000	
Pahroc V. 42,000a 21,000c 13,000 Pahrangat V. 60,000a 25,000c 17,000 Covide Spring V. 10,700a 5,000c 17,000 Lav Vagas V. 37,000a 18,000c 17,000 Lav Vagas V. 1,100a 25,000c 34,000 Piute V. 1,100a 12,000 15,000 Piute V. 1,100a 800a 11,000 15,000 Hidden V. (North) 400a 20,000d 15,000 Lower Moapa V. 37,000b 35,000d 10,000 Tule Desert V. 1,000a 35,000d 10,000 Cold Butte Area 1,000a 35,000d 10,000 Cold Butte Area 1,000a 10,000d 29,000 Cold Butte Area 1,000a 10,000d 29,000 Cold Butte Area 1,000a 30,000d 10,000 Cold Butte Area 1,000a 30,000d 1,500 Cold Butte Area 1,000a 1,500	207	White River V.		37,000c	49,000	B33
Pahranagat V. 60,000a 25,000c 17,000 Coyote Spring V. 10,700a 18,000c 19,000c 19,000c	208	Pahroc V.		21,000c	13,000	R21, B33
Trinea Lakes V. 10,700a 18,000c 19,000c 10,000c 10,000	209	Pahranagat V.	60,000a	25,000c	17,000	R21, B33
Three Lakes V. 10,700a 5,000c 8,600 Southern Part I 30,000a 25,000c 34,000 Colorado River V. 200a Minor (c) 11,000 Piute V. 1,100a 600c 12,000 Black Mountains Area 12,000c 400c 15,000 Cairdornia Wash 43,000c 36,000d 15,000 Cairdornia Wash 43,000c 36,000d 10,000 Cairdornia Wash 43,000c 35,000d 10,000 Cairdornia Wash 37,000c 35,000d 10,000 Tuwer Moapa V. 35,000b 100,000d 25,000 Cirasewood Basin 600c 300c 10,000 Carasewood Basin 5,340,000c 20,000 Marcury V. 17,000a 8,000c 340,000 Rock V. 17,000a 8,000c 1,500 Rock V. 17,000a 8,000c 1,500 Rock V. 17,000a 1,000c 1,500 Rock V. 17,000a 1,500c 1,500 Rock V. 17,000a 1,000c 1,500 Rock V. 17,000c 1,000c 1,500c Rock V. 17,000c 1,000c 1,500c Rock V. 17,000c 1,000c 1,000c Rock V. 17,000c 1,000c Rock V. 17,000c 1,000c Rock	210	Coyote Spring V.	37,000a	18,000c	18,000	R25, B33
(Southern Part) (Southern Part) 30,000a Africant 34,000 Colorado River V. 200a Minor (c) 1,100a 1,1	211	Three Lakes V.	10,700a	5,000c	8,600	R54
Las Vegas V. 30,000a Las Vegas V. 30,000a Las Vegas V. 3000a Las Vegas V. 3000a Las Vegas V. 300a Las Vegas V. 300a Las Vegas V. 300a Las Vegas V. 300a Las Vegas V. 300b Las Vegas V. 37,000b Las Vegas V. 37,		(Southern Part)		-		
Colorado River V. 200a Minor (c) 11,000 Piute V. 1,100a 600c 12,000 Black Mountains Area 12,000b 7,000d 15,000 Garnet V. 800a 400c 5,000 Hidden V. (North) 400a 200c 1,500 Area (Upper Moapa V.) 37,000a 37,000c 2,500 Area (Upper Moapa V.) 35,000b 35,000d 8,000 Lower Moapa V. 1,000a 35,000d 8,000 Virgin River V. 170,000b 1,000c 5,300 Virgin River V. 170,000b 500c 5,300 Gold Butte Area 1,000a 500c 22,000 Gold Butte Area 1,000a 20,000 20,000 Gold Butte Area 1,000a 20,000c 20,000 Gold Butte Area 1,000a 20,000c 340,000c Areacury V. 17,000a 8,000c 1,500 Book V. 17,000a 8,000c 1,500	212	Las Vegas V.		25,000c	34,000	W1780
Piute V. 1,100a 600c 12,000 1	213	Colorado River V.	200a	Minor(c)	11,000	R36
Black Mountains Area 12,000b 7,000d 15,000 Garnet V. 800a 400c 5,000 Hidden V. (North) 400a 200c 1,500 California Wash 43,000b 35,000d 10,000 Area (Upper Moapa V.) 35,000b 1,000c 5,300 Tule Desert 2,100a 1,000c 5,300 Virgin River V. 170,000b 1,000c 5,300 Gold Butte Area 1,000a 5,00c 10,000 Gressewood Basin 600a 300c 2,000 Amercury V. 17,000a 8,000c 1,000 Bock V. 17,000a 8,000c 1,500 Bock V. 17,000a 8,000c 1,500 Bock V. 17,000a 8,000c 1,500 Bock V. 17,000a 1,500 1,500 Bock V. 17,000a 1,500 Bock V. 17,000a 1,500 Bock V. 17,000a 1,500 Bock V. 17,000a 1,500 Bock V. 1,500a Bock V. 1,50	214	Piute V.	1,100a	900c	12,000	R36
Garnet V. 800a 400c 5,000 Hidden V. (North) 400a 200c 1,500 California Wash 43,000b 36,000d 10,000 Muddy River Springs 37,000a 37,000c 2,500 Lower Moapa V. 35,000b 1,000c 5,300 Tule Desert 2,100a 1,000c 5,300 Virgin River V. 170,000b 5,000 100,000d 2,000 Gold Butte Area 1,000a 5,000 1,000 Greasewood Basin 600a 300c 2,000 Mercury V. 17,000a 8,000c 1,500 1,500 Rock V. 17,000a 8,000c 1,500 1,500 Rock V. 17,000a 8,000c 1,500 Hidden V. 17,000a 1,500	215	Black Mountains Area	12,000b	P000'L	15,000	R50
Hidden V. (North)	216	Garnet V.	800a	400c	2,000	R50
Muddy River Springs 37,000b 10,000 Area (Upper Moapa V.) 37,000e 37,000c 2,500 Lower Moapa V. 35,000b 35,000d 8,000 Tule Desert 2,100a 1,000c 5,300 Virgin River V. 170,000b 5,00c 29,000 Gold Butte Area 1,000a 300c 2,000 Gold Butte Area 5,340,000a 340,000 340,000 AIN TOTAL > 340,000a 340,000 340,000 Beach V. 17,000a 8,000c 1,500	217	Hidden V. (North)	400a	200c	1,500	R50
Area (Upper Moapa V.) 37,000a 2,500 Lower Moapa V. 35,000b 8,000 Lower Moapa V. 2,100a 1,000c Tule Desert 2,100a 1,000c Virgin River V. 170,000b 100,000d Gold Butte Area 1,000a 29,000 Greasewood Basin 600a 300c Greasewood Basin > 340,000a 340,000 IN TOTAL DEATH VALLEY BASIN American V. Rock V. 17,000a 8,000c 1,500 Minor 1,500	218	California Wash	43,000b	36,000	10,000	R50
Lower Moapa V. 35,000b	219	Muddy River Springs Area (Upper Moapa V.)	37,000a	37,000c	2,500	B33
Tule Desert 2,100a 1,000c 5,300 Virgin River V. 170,000b 100,000d 29,000 Gold Butte Area 1,000a 300c 10,000 IN TOTAL > 340,000a 200,000c 340,000 DEATH VALLEY BASIN Rock V. 17,000a 8,000c Minor Rock V. 17,000a 8,000c 1,500	220	Lower Moapa V.	35,000b	92,000d	8,000	R50
Virgin River V. 170,000b 100,000d 29,000 Gold Butte Area 1,000a 300c 10,000 IN TOTAL > 340,000a 200,000c 340,000 DEATH VALLEY BASIN Rock V. 17,000a 8,000c Minor Rock V. 17,000a 8,000c 1,500	221	Tule Desert	2,100a	1,000c	5,300	R51
Gold Butte Area 1,000a 500c 10,000	222	Virgin River V.	170,000b	100,000	29,000	R51
Greasewood Basin	223	Gold Butte Area	1,000a	500c	10,000	R50
Net cury V. 17,000a 8,000c 340,000 3	224	Greasewood Basin	600a	300c	2,000	R50
DEATH VALLEY BASIN Mercury V. 17,000a 8,000c Minor Rock V. 17,000a 8,000c 1,500	BASIN TOTAL			200,000c	340,000	
DEATH VALLEY BASIN			i			
Mercury V. 17,000a 8,000c Minor Rock V. 17,000a 8,000c 1,500			DEAIHVA			
Rock V. 17,000a 8,000c 1,500	225	Mercury V.	17,000a	8,000c	Minor	R14, R54
	226	Rock V.	17,000a	8,000c	1,500	R14, R54

		DEATH VALLEY	DEATH VALLEY BASIN, continued	Ţ	Table 1 – 12 of 12 Pages
227	Forty Mile Canyon				R14, R54
	a) Jackass Flats	8,000a	4,000c	7,400	R14, R54
	b) Buckboard Mesa	7,000a	3,600c	Minor	R14, R54
228	Oasis V.	3,500a	2,000c	4,000	R10, R54
229	Crater Flat	1,700a	3006	3,500	R14, R54
230	Amargosa Desert	43,000a	34,000c	35,000	R14, R54
231	Grapevine Canyon	400a	400c	1,600	R 45
232	Oriental Wash	300a	150c	3,700	R45
BASIN TOTAL		62,000a	61,000c	57,000	
STATE TOTAL		2,000,000a	1,700,000c	2,500,000	

TABLE 1-A - TRANSITIONAL STORAGE

Region Number	and the first of the first	Storage Deserve
	Region	(Acre Feet)
	Northwest Region	1,000,000
2	Black Rock Desert Region	8,000,000
r	Snake River Basin	200'000
4	Humboldt River Basin	10,000,000
2	West Central Region	1,500,000
9	Truckee River Basin	1,600,000
7	Western Region	340,000
89	Carson River Basin	3,800,000
6	Walker River Basin	2,600,000
10	Central Region	45,000,000
11	Great Salt Lake Basin	3,000,000
12	Escalante Desert Basin	70,000
13	Colorado River Basin	5,000,000
14	Death Valley Basin	2,000,000
	TOTAL	84,000,000





CLIMATE AND PRECIPITATION DATA Explanation of Table Headings Table 2

Approximate Area

Each of the 254 hydrographic area units is shown on the 1:750,000 scale (1 inch = 12 miles) edition of the hydrographic area map (Figure 5). The extent of each hydrographic region and basin was computed as the sum of the hydrographic areas within each region or basin. For the computations, all digits are shown in Table 2 so that their arithmetic sum is equal to the total amount of Nevada, 110,540 sq. mi. However, because the areas were not actually surveyed, they may not agree precisely with areas listed in other reports.

Altitude of Valley Floor

The altitudes of the valley floors were taken from topographic maps; and are an approximate average of the altitude range of the valley lowlands. In general, the southern part of Nevada in and near the Colorado River and Death Valley basins contains mostly low-altitude hydrographic areas, the West Central part of the state generally contains mostly medium-altitude areas, and the East Central and northwestern parts of the state contain mostly high-altitude valleys.

Average Annual Precipitation

Precipitation is based on U.S. Weather Bureau data. The quantities listed in the table are usually estimates based on the period of record for several nearby precipitation stations. The average annual precipitation for the state as a whole is about nine inches.

Growing Season

Length of growing season is based mainly on temperature data from nearby weather stations, although some other published sources of data were also used. "Growing season" as used here refers to number of days between the last killing frost (28° F.) in the spring and the first killing frost (28° F.) in the fall

Climate and precipitation data are shown in Table 2.

Hydrographic			:		5		7 and 1	z – rage i or ii
tyurograpnic Area					Average A	Average Annual Precipitation		
Number	Hydrographic Area	Approximate Area (Square Miles)	Approximate Altitude of Valley Floor	Minimum (Inches)	Maximum (Inches)	Average (Feet)	Total (Acre-Feet)	Growing Season (Days)
-	Pueblo V.	118	4,200	8 \	>20	1.0	73,000	
2	Continental Lake V.	214	4,200	8 V	>24	7.	100,000	
က	Gridley Lake V.	195	4,500	8	20	თ.	000'86	
4	Virgin V.	494	4,800	8	12	œί	230,000	42
2	Sage Hen V.	22	2,600	8	12	o;	11,000	42
9	Guano V.	147	5,400	æ	41<	თ.	83,000	42
7	Swan Lake V.	226	5,700	8	15	o.	130,000	42
œ	Massacre Lake V.	176	5,700	8 V	15	ω .	000'16	42
6	Long V.	433	2,600	8	>14	o;	240,000	42
10	Macy Flat	27	5,800	∞	<12	o;	16,000	42
=	Coleman V.	51	4,800	ω	15	6.	28,000	42
12	Mosquito V.	32	5,700	ω ∨	15	ω .	16,000	42
13	Warner V.	82	5,300	& V	15	œ.	44,000	42
14	Surprise V.	214	4,500	& V	>14	6.	120,000	42
15	Boulder V.	88	5,700	8	V14	o.	52,000	42
16	Duck Lake V.	533	4,700	< 8	15	.8	270,000	75
		Total	Range	Minimum	Maximum		Total	Range
REGION SUMMARY	JMMARY	3,073	4200-5800	< 8	>24	.8	1,600,000	42-75
			BLACK F	BLACK ROCK DESERT REGION	EGION			
17	Pilgrim Flat	12	6,400	8 \	15	1.1	7,000	
18	Painters Flat	31	5,700	ж У	15	ō.	31,000	

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. 31 Desert V. 31 Desert V. 32 Silver State V. 33 Quinn River V. 34 Silver State V. 35 Silver State V. 36 Desert V. 37 Silver State V. 38 Silver State V. 39 Desert V. 31 Desert V. 31 Desert V. 32 Silver State V. 33 Quinn River V. 34 Silver State V. 35 Silver State V. 36 Desert V. 37 Silver State V. 38 Silver State V. 39 Silver State V. 39 Silver State V. 30 Desert V.	no V. Noke Creek Desert The Emidio Desert alapai Flat By Rock Lake V. Ind Meadow The Forest V. Ind Rock Desert By Rock Desert By Rock Desert By Rock Desert The Forest V. Ind Rock Desert A Rock Desert Ind Rock Desert A Rock Desert Ind Rock Desert A Rock Desert Ind Rock Desert Ind River V. Ind River V.	39 12 980 305 305 665 495 60 2,179 528 413 300 1,052	4,200 4,000 3,900 4,000 5,000 6,000	∞ ∞ V V	15	rċ 2	14,000	160
20 Sano V. 21 Smoke Creek [22 San Emidio Do 23 Granite Basin 24 Hualapai Flat 25 High Rock Lal 26 Mud Meadow 27 Summit Lake 28 Black Rock Do 29 Pine Forest V. 30 Kings River V 31 Desert V. 32 Silver State V. 33 Quinn River V 3 Ouinn River V 3 Ouinn River V 3 Ouinn River V 3 Ouinn River V 5 Silver State V 6 Ouinn River V 7 SINGERION SUMMARY	besert esert ke V. v. esert ing Sub Area ouse Sub Area ia Sub Area	12 980 305 315 665 495 60 2,179 528 413 300 1,052	4,000 3,900 4,000 5,000 4,100 5,000			_		160
21 Smoke Creek (22 San Emidio De 23 Granite Basin 24 Hualapai Flat 25 High Rock Lal 26 Mud Meadow 27 Summit Lake 28 Black Rock Do 29 Pine Forest V. 29 Rings River V 30 Kings River V 31 Desert V. 32 Silver State V. 33 Quinn River V a) Octowad b) McDerr	besert esert ke V. V. esert ing Sub Area use Sub Area	980 305 9 315 665 495 60 2,179 528 413 300 1,052	3,900 4,000 5,000 4,100 5,000		12	.	3,100	
22 San Emidio De 23 Granite Basin 24 Hualapai Flat 25 High Rock Lal 26 Mud Meadow 27 Summit Lake 28 Black Rock De 29 Pine Forest V. 30 Kings River V a) Rio Kir b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	ke V. V. esert ing Sub Area ouse Sub Area (') //	305 315 665 495 60 2,179 528 413 300 1.052	4,000 5,000 4,100 5,000	& V	>20	9.	440,000	160
23 Granite Basin 24 Hualapai Flat 25 High Rock Lal 26 Mud Meadow 27 Summit Lake 28 Black Rock Do 29 Pine Forest V 29 Pine Forest V 30 Kings River V 31 Desert V 32 Silver State V 33 Quinn River V 3 SIN REGION SUMMARY	ke V. V. esert ing Sub Area ouse Sub Area (7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	9 315 665 495 60 2,179 528 413 300 1,052	5,000 4,100 5,000	∞ ∨	20	ιť	100,000	160
24 Hualapai Flat 25 High Rock Lal 26 Mud Meadow 27 Summit Lake 28 Black Rock Di 29 Pine Forest V. 30 Kings River V a) Rio Kir b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	ke V. V. esert ing Sub Area use Sub Area (' ' ' ' '	315 665 495 60 2,179 528 413 300 1,052	4,100	80	20	1.0	000′9	
25 High Rock Lal 26 Mud Meadow 27 Summit Lake 28 Black Rock Do 29 Pine Forest V. 30 Kings River V a) Rio Kir b) Sod Ho 31 Desert V. 32 Sliver State V. 33 Quinn River V a) Orovad b) McDerr	ke V. V. esert ing Sub Area ouse Sub Area /. /. // la Sub Area	665 495 60 2,179 528 413 300 1,052	5,000	8	>20	89.	170,000	150
26 Mud Meadow 27 Summit Lake 28 Black Rock De 29 Pine Forest V. 30 Kings River V. 31 Desert V. 32 Silver State V. 33 Quinn River V. 34 Ouinn River V. 55 Desert V. 36 Desert V. 37 Desert V. 38 Desert V. 38 Desert V. 38 Desert V. 39 Desert V.	v. esert ing Sub Area ouse Sub Area //	495 60 2,179 528 413 300 113 1.052	_	_∞	12	æ.	435,000	
27 Summit Lake 28 Black Rock Dg 29 Pine Forest V. 30 Kings River V. a) Rio Kir b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Ourowad b) McDerr	v. esert ing Sub Area ouse Sub Area	60 2,179 528 413 300 1,052 313	4,000	8 V	>20	7.	220,000	
28 Black Rock De 29 Pine Forest V. 30 Kings River V. a) Bio Kir b) Sod Ho 31 Desert V. 32 Sliver State V. 33 Quinn River V a) Orovad b) McDerr	esert ng Sub Area ouse Sub Area ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	2,179 528 413 300 11,052 313	5,900	12	20	1.2	43,000	
29 Pine Forest V. 30 Kings River V. a) Rio Kir b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	ng Sub Area ouse Sub Area	528 413 300 113 1,052 313	4,000	8 >	20	9.	840,000	179
30 Kings River V. a) Rio Kir b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	ng Sub Area buse Sub Area '.	413 300 113 1,052 313	4,000	× ×	<24	α .	260,000	77
a) Rio Kir b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	ng Sub Area suse Sub Area /- la Sub Area	300 113 1,052 313	4,200	8	<24	1.0	260,000	88
b) Sod Ho 31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	ouse Sub Area	113 1,052 313	4,300	8				
31 Desert V. 32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	/- la Sub Area	1,052	4,200	8				
32 Silver State V. 33 Quinn River V a) Orovad b) McDerr	/- la Sub Area	313	4,200	8 >	20	9.	370,000	
33 Quinn River V a) Orovad b) McDerr REGION SUMMARY	/. la Sub Area		4,200	<10	>15	7.	140,000	
a) Orovadi b) McDerr REGION SUMMARY	la Sub Area	1,224	4,300	<10	>24	1.0	000'088	112
b) McDerr		632	4,200	<10				
REGION SUMMARY	mitt Sub Area	592	4,500	< 10				
REGION SUMMARY		Total	Range	Minimum	Maximum	Average	Total	Range
		8,632	3900-6400	8	>24	ω.	4,200,000	77-179
			SNA	SNAKE RIVER BASIN	2			
34 Little Owyhee River Area	e River Area	716	5,100	& V	>24	æ.	360,000	06
35 South Fork Ov	South Fork Owyhee River Area	1,310	5,000	8 V	>36	6.	720,000	06
36 Independence V.	· >	345	5,700	8 V	>36	1.4	300,000	85
37 Owyhee River Area	. Area	533	5,300	ж У	36	1.4	460,000	06
38 Bruneau River Area	r Area	514	5,000	8 V	>36	1.5	200,000	
39 Jarbidge River Area	r Area	278	5,000	8 V	>36	1.9	330,000	-
40 Salmon Falls Creek Area	Creek Area	1,218	5,200	8	>36	1.3	1,000,000	81
41 Goose Creek Area	Area	316	5,200	8 >	>24	1.0	200,000	
		Total	Range	Minimum	Maximum	Average	Total	Range
BASIN SUMMARY		5,230	5000-5700	8	>36	1.2	3,900,000	81-90

			HUMB	HUMBOLDT RIVER BASIN	NIST		Table 2	– Page 3 of 11
Hydrographic		Approximate	Approximate		Average Ar	Average Annual Precipitation		Average
Area Number	Hydrographic Area	Area (Square Miles)	Altitude of Valley Floor	Minimum (Inches)	Maximum (Inches)	Average (Feet)	Total (Acre-Feet)	Growing Season (Days)
42	Marys River Area	1,073	2,600	<10	>24	1.0	000'002	
43	Starr Vailey Area	332	000'9	<10	>24	1.1	230,000	
44	North Fork Area	1,110	5,400	80	>24	1.1	750,000	
45	Lamoille V.	257	5,400	8	>24	1.1	180,000	140
46	South Fork Area	66	5,600	<12	>20	1.5	000'86	100
47	Huntington V.	787	5,500	<12	>20	1.1	550,000	06
48	Dixie Creek Tenmile Creek Area	392	5,400	<12	>20	6.	240,000	100
49	Elko Segment	314	5,100	8 \	>15	6.	170,000	103
50	Susie Creek Area	223	5,000	8 \	>20	6.	130,000	
51	Maggie Creek Area	396	5,300	8 >	< 24	6:	240,000	
52	Marys Creek Area	61	5,200	8 >	>20	ω .	34,000	
53	Pine V.	1,002	5,400	8	>24	1.0	000'099	105
54	Crescent V.	752	5,000	& V	< 20	6.	430,000	110
55	Carico Lake V.	376	5,100	& V	>20	7.	160,000	120
56	Upper Reese River V.	1,138	5,800	& V	>20	6.	700,000	117
57	Antelope V.	452	5,000	& V	>20	6.	260,000	120
58	Middle Reese River V.	319	4,900	∞ ∨	>20	æ.	170,000	120
29	Lower Reese River V.	588	4,700	& V	>24	æ.	280,000	120
09	Whirtwind V.	94	4,800	& V	>15	œί	45,000	
61	Boulder Flat	544	4,700	& V	>20	7.	240,000	
62	Rock Creek V.	444	4,900	8 \	<20	ω .	240,000	<i>-</i>
63	Willow Creek V.	405	5,100	8	<24	1.0	250,000	
64	Clovers Area	720	4,500	& V	>20	1.0	300,000	120
65	Pumpernickel V.	299	4,500	& V	>20	7.	130,000	
99	Kelly Creek Area	301	4,400	& V	< 24	.7	130,000	
29	Little Humboldt V.	975	4,600	_∞ ∨	>20	6:	500,000	110
89	Hardscrabble Area	167	5,200	8 V	>20	1.1	120,000	110
69	Paradise V.	009	4,500	8 V	>20	7.	000'006	120
70	Winnemucca Segment	435	4,400	8	>24	9.	170,000	.141
71	Grass V.	520	4,400	& V	>20	æί	250,000	130
72	Imlay Area	177	4,200	ж V	>15	ø.	300,000	128
Q			•	•				

13									
102 4,000 58 520 50 50 50 50 50 50 5				HUMBOLDT	RIVER BASIN (c	ontinued)		Table 2	– Page 4 of 11
Total 102 3300 < 8 > > 9 51,000	73	Lovelock V.	635	4,000	∞ ∨	>20	9.	260,000	128
Fig. 164 3,900 C 8 S S S S S S S S S		a) Oreana Sub-Area	102	4,300		>20	7.		
Total	74	White Plains	164	3,900	8 >	8	Ľ.	51,000	
## WEST CENTRAL REGION ## NEST CENTRAL REGION ## NEST CENTRAL REGION ## Nest Carryon Signment ## 1058			Total	Range	Minimum	Maximum	Average	Total	Range
WEST CENTRAL REGION Area 178 4,200 < 4 >12 5 56,000 5000 43,000 A3,000 A3,000	BASIN SU	MMARY	16,843	3900-6000	8 >	>24	б;	000'006'6	90-141
WEST CENTRAL REGION Ort Springs Area 178 4,200 < 4									
V. Springs Area 178 4,200 < 4 >12 59,000 Area 120 4,200 5 <15				WEST	CENTRAL REGI	NO			
Acethology V. 58 4,200	75	Bradys Hot Springs Area	178	4,200		>12	rč.	000'69	150-170
V. 58 4,700 < 8 >12 .6 21,000 V. 333 4,500 < 8	92	Fernley Area	120	4,200	5	<15	9.	43,000	
V. 383 4,000 < 8 >15 .6 350,000 V. 333 4,500 < 8	77	Fireball V.	58	4,700	8 >	>12	9.	21,000	150-160
V. 333 4.500 < 8 >15 .6 120,000 Lotal Range Minimum Maximum Average Total Loca Lake V. 371 3,800 < 5	78	Granite Springs V.	296	4,000		>15	9.	320,000	150-170
Total Range Minimum Maximum Average Total Lig66 4000-4700 < 4	79	Kumiva V.	333	4,500	8 >	>15	9.	120,000	150-160
uca Lake V. 33800 < 4 >15 6 590,000 Lake V. 371 3800 < 5 20 .6 130,000 lat 92 4,200 5 < 24 .6 270,000 springs V. 672 3800 5 < 20 .6 130,000 springs V. 672 4,200 5 >20 .7 43,000 springs V. 672 4,200 8 >39 10,000 .8 130,000 Springs V. 10 4,500 < 8 >36 1.5 6 4,000 Weadows 203 4,500 < 8 >36 .6 4,000 V. 82 5,100 12 >39 12 18 87,000 V. 82 5,100 8 >30 2.3 110,000 V. 82 5,100 8 >30 2.3 110,000 Canyon Segment 130 8 <t< td=""><td></td><td></td><td>Total</td><td>Range</td><td>Minimum</td><td>Maximum</td><td>Average</td><td>Total</td><td>Range</td></t<>			Total	Range	Minimum	Maximum	Average	Total	Range
TRUCKEE RIVER BASIN mucca Lake V. 371 3,800 < 5 20 .6 130,000 stel Lake V. 672 3,800 < 5	REGIONS	SUMMARY	1,656	4000-4700	< 4	>15	9.	290,000	150-170
murcca Lake V. 371 3,800 < 5			!	TRUC	KEE RIVER BA!	NIS			
se Lake V. 672 3,800 5 <24 .6 270,000 Segment 4,200 5 >20 .7 43,000 Segment 285 4,300 8 >39 110,000 Springs Area 247 4,300 <8	80	Winnemucca Lake V.	371	3,800		20	9.	130,000	137
Felat 92 4,200 5 >20 7 43,000 Segment 285 4,300 8 >39 2.3 110,000 Springs Area 247 4,300 <8	81	Pyramid Lake V.	672	3,800	ល	<24	9.	270,000	137
Segment 285 4,300 8 >39 2.3 110,000 Springs Area 247 4,300 < 8	82	Dodge Flat	92	4,200	വ	>20	7.	43,000	
Springs Area 247 4,300 < 8 < 20 .8 130,000 sh Springs V. 76 4,500 < 8 >15 .6 30,000 ce Meadows 203 4,500 5 >8 .6 4,000 nt V. 39 4,500 8 >39 2.0 46,000 ne V. 82 5,100 12 >32 1.8 87,000 ne V. 82 5,100 15 >40 2.1 180,000 ee Canyon Segment 84 4,900 8 >39 2.3 110,000 se Canyon Segment Total Range Minimum Maximum Average Total strong Canyon Segment 2,300 5 >40 9 1,300,000	83	Tracy Segment	285	4,300	8	>36	2.3	110,000	
sh Springs V. 76 4,500 < 8 >15 .6 30,000 ee Meadows 203 4,500 5 >8 .6 4,000 nt V. 39 4,500 8 >39 1.2 160,000 nt V. 82 5,100 12 >32 1.8 87,000 ev V. 82 5,100 15 >40 2.1 180,000 ev Canyon Segment 84 4,900 8 >39 2.3 110,000 ev Canyon Segment Total Minimum Maximum Average Total 2,300 3800-6200 < 5	84	Warm Springs Area	247	4,300		<20	8 .	130,000	140
ee Meadows 10 4,700 < 8 > 8 .6 4,000 ee Meadows 203 4,500 5 >39 1.2 160,000 nt V. 39 4,500 8 >39 2.0 46,000 ne V. 82 5,100 12 >32 1.8 87,000 Fahoe Basin 139 6,200 15 >40 2.1 180,000 ee Canyon Segment 8 >39 2.3 110,000 ee Canyon Segment Total Minimum Maximum Average Total 2,300 3800-6200 < 5	85	Spanish Springs V.	9/	4,500		>15	9.	30,000	140
ee Meadows 203 4,500 5 539 1.2 160,000 nt V. 39 4,500 8 >39 2.0 46,000 be V. 82 5,100 12 >32 1.8 87,000 Tahoe Basin 139 6,200 15 >40 2.1 180,000 ee Canyon Segment 84 4,900 8 >39 2.3 110,000 ee Canyon Segment Total Minimum Maximum Average Total 2,300 3800-6200 < 5	98	Sun V.	10	4,700		∞ ^	9.	4,000	140
nt V. 39 4,500 8 >39 2.0 46,000 be V. 82 5,100 12 >32 1.8 87,000 Table Basin 139 6,200 15 >40 2.1 180,000 ee Canyon Segment 84 4,900 8 >39 2.3 110,000 ee Canyon Segment Total Range Minimum Maximum Average Total 2,300 3800-6200 < 5	87	Truckee Meadows	203	4,500	2	>39	1.2	160,000	155
be V. 82 5,100 12 >32 1.8 87,000 Tahoe Basin 139 6,200 15 >40 2.1 180,000 ee Canyon Segment 84 4,900 8 >39 2.3 110,000 Total Range Minimum Maximum Average Total 2,300 3800-6200 < 5	88	Pleasant V.	ଞ	4,500	80	>39	2.0	46,000	
Tahoe Basin 139 6,200 15 >40 2.1 180,000 ee Canyon Segment 84 4,900 8 >39 2.3 110,000 Total Range Minimum Maximum Average Total 2,300 3800-6200 < 5	68	Washoe V.	82	5,100	12	>32	8.1	87,000	120
ee Canyon Segment 84 4,900 8 >39 2.3 110,000 Total Range Minimum Maximum Average Total 2,300 3800-6200 < 5	06	Lake Tahoe Basin	139	6,200	15	>40	2.1	180,000	
Total Range Minimum Maximum Average Total 2,300 3800-6200 < 5	91	Truckee Canyon Segment	84	4,900	8	>39	2.3	110,000	
2,300 3800.6200 < 5 >409 1,300,000			Total	Range	Minimum	Maximum	Average	Total	Range
	BASIN SU	MMARY	2,300	3800-6200	\ 5	>40	o;	1,300,000	120-155

Lydrographic	-	Approximate	Anarovimoto		Average Ar	Average Annual Precipitation		V
Area Number	Hydrographic Area	Approximate Area (Square Miles)	Altitude of Valley Floor	Minimum (Inches)	Maximum (Inches)	Average (Feet)	Total (Acre-Feet)	Growing Season (Days)
92	Lemmon V.	63	5,000	8	>15	φ	48,000	130
	(a) Western Part	53	5,000	8				130
	(b) Eastern Part	40	5,000	8				130
93	Antelope V.	18	5,200	<12	>15	œί	000'6	130
94	Bedell Flat	53	5,000	_∞	>15	ω i	28,000	130
92	Dry V.	80	4,600	8	>15	æ	44,000	130
96	Newcomb Lake V.	o	5,200	ω	>15	ō,	4,500	130
6	Honey Lake V.	193	4,000	8	>15	7.	84,000	170
86	Skedaddle Creek V.	43	4,800	8 \	>12	7.	20,000	
66	Red Rock V.	58	4,900	8	>15	8 .	29,000	130
100	Cold Spring V.	30	5,100	<12	>15	<u>б</u> .	18,000	130
		Total	Range	Minimum	Maximum	Average	Total	Range
REGION SUMMARY	JMMARY	577	4000-5200	8	>15	œί	280,000	130.170
			CARS	CARSON RIVER BASIN	2			
101	Carson Desert	2,182	3,900	8	>15	ιú	720,000	127
102	Churchill V.	480	4,200	& V	>15	ιċ	170,000	
103	Dayton V.	369	4,400	8	>20	∞ .	180,000	
104	Eagle V.	69	4,700	80	>30	1.3	58,000	119
105	Carson V.	419	4,800	8 >	>30	1.0	270,000	114
		Total	Range	Minimum	Maximum	Average	Total	Range
BASIN SUMMARY	MMARY	3,519	3900-4800	8	>30	9.	1,400,000	114-127
	-		WAL	WALKER RIVER BASIN	Z			
106	Antelope V.	115	2,000	8	>24	1.0	000'69	···
107	Smith V.	479	4,700	8 \	24	o;	270,000	120
108	Mason V.	516	4,500	> 5	>15	ιč	160,000	118
109	Fast Walker Area	586	6 800	∞ ∨	>26	7	250,000	

<u></u> .			WALKER	WALKER RIVER BASIN, continued	ontinued		Table 2	Table 2 – Page 6 of 11
110	Walker Lake V.	1,350	4,300					136
	(a) Schurz Sub Area	502	4,200	2	15	ī,	160,000	136
	(b) Lake Sub Area	307	4,000	4	20			
	(c) Whiskey Flat Hawthorne Sub	541	4,800	ო	>20	9.	210,000	
		Total	Range	Minimum	Maximum	Average	Total	Range
BASIN SUMMARY	MMARY	3,048	4000-6800	3	>26	9.	1,200,000	118-136
			ij	CENTRAL REGION	_			
111	Alkali V.	83	006'9					100-150
	(a) Northern Part	18	7,050	8	>15	80.	6,500	
	(b) Southern Part	65	6,850	& V	>15	φ.	36,000	
112	Mono V.	27	7,000	∞	>12	6.	16,000	100-150
113	Huntoon V.	6	5,800	ж У	>12	9.	43,000	100-150
114	Teels Marsh V.	323	5,000	9	>12	9.	120,000	170-200
115	Adobe V.	15	6,400	8	>12	6.	6,400	100-150
116	Queen V.	92	6,200	ж У	>20	6.	35,000	100-150
117	Fish Lake V.	902	4,800	\ \	>20	9.	270,000	+96
118	Columbus Salt Marsh V.	370	4,600	\ 4	>20	4.	100,000	186
119	Rhodes Salt Marsh V.	199	4,600	5	>15	5.	29,000	170-200
120	Garfield Flat	92	5,700	ж У	>12	9.	34,000	100-150
121	Soda Springs V.	376	4,600					
	(a) Eastern Part	246	4,600	4 \	>15	s. >	72,000	188
	(b) Western Part	130	4,500	ж У	∞ ^	4.	35,000	170-200
122	Gabbs V.	1,277	4,300	4	15	7.	520,000	100-120
123	Rawhide Flats	227	4,000	∞ ∨	12	5.	75,000	
124	Fairview V.	285	4,200	∞ ∨	15	5.	100,000	
125	Stingaree V.	43	4,400	∞ ∨	>15	9.	16,000	
126	Cowkick V.	110	4,700	∞ ∨	>20	9.	44,000	
127	Eastgate Valley Area	216	4,800	∞ ∨	<24	φ.	100,000	
128	Dixie V.	1,303	3,600	V 2	>20	9.	460,000	220
129	Buena Vista V.	742	4,100	< >	15	9.	310,000	110
130	Pleasant V.	285	4,400	ж У	>20	9.	110,000	
131	Buffalo V.	504	4,700	& V	>24	7.	240,000	120
132	Jersey V.	142	4,200	8	20	9.	56,000	

			CEN	CENTRAL REGION, continued	continued		Table 2	2 – Page 7 of 11
Hydrographic		Approximate	Approximate		Average Annu	Average Annual Precipitation		Average
Area Number	Hydrographic Area	Area (Square Miles)	Altitude of Valley Floor	Minimum (Inches)	Maximum (Inches)	Average (Feet)	Total (Acre-Feet)	Growing Season (Days)
133	Edwards Creek V.	416	5,200	8 >	>20	Ľ	190,000	120
134	Smith Creek V.	582	6,100	<12	>20	8.	280,000	
135	lone V.	460	6,000	<12	>20	7.	230,000	
136	Monte Cristo V.	284	5,400	∞ ∨	>12	5.	94,000	100-150
137	Big Smoky	2,926						_
	(a) Tonopah Flat	1,603	4,800	\ \ S	>15	9:	580,000	150
	(b) Northern Part	1,323	5,500	9 >	>20	6:	740,000	130
138	Grass V.	595	5,700	8 V	>20	æį	290,000	120
139	Kobeh V.	898	6,200	<12	>20	89.	260,000	100
140	Monitor V.	1,038						
	(a) Northern Part	529	6,500	9	>18	7.	230,000	>100
-	(b) Southern Part	509	7,000	>	>18	ω .	280,000	<100
141	Ralston V.	971	2,600	4 \	>15	9.	360,000	144
142	Alkali Spring V. (Esmeralda)	313	2,000	9 \	80	5.	100,000	140
143	Clayton V.	555	4,400	8 \	>15	5.	180,000	150
144	Lida V,	535	2,000	& V	>12	5.	170,000	140
145	Stonewall Flat	381	4,800	80	>12	ιτί	110,000	140
146	Sarcobatus Flat	812	4,100	4	>15	4.	190,000	150
147	Gold Flat	684	5,200	ж У	>15	9.	250,000	
148	Cactus Flat	403	5,400	ж У	>15	5:	130,000	
149	Stone Cabin V.	985	2,700	8 \	>15	9.	350,000	144
150	Little Fish Lake V.	434	009'9	8 V	>20	80.	230,000	75-100
151	Antelope V. (Eureka & Nye)	444	6,200	< >	>18	7.	190,000	100
152	Stevens Basin	17	7,200	7	15	7.	8,500	<100
153	Diamond V.	752	2,900	8 \	>20	6.	400,000	100
154	Newark V.	801	2,900	9 \	>20	φ.	410,000	80-100
155	Little Smoky V.	1,158						75-150
	(a) Northern Part	591	6,100	9 >	>15	9.	230,000	75-100
	(b) Central Part	22	6,500	80 V	>12	ιςi	20,000	75
	(c) Southern Part	510	2,900	& V	>15	9.	200,000	150
156	Hot Creek V.	1,036	5,300	S	>15	9.	390,000	150
157	Kawich V.	350	5,500	& V	>15	7.	150,000	

			CENTRA	CENTRAL REGION, continued	tinued		Table 2	Table 2 – Page 8 of 11
158	Emigrant V.	792						
	(a) Groom Lake V.	663	4,600	8 V	>20	9.	250,000	
	(b) Papoose Lake V.	104	4,600	8 V	ω Λ	ις	34,000	
159	Yucca Flat	302	4,000	8 \	>12	5.	100,000	
160	Frenchman Flat	463	3,200	8 \	∞ ∧	ιĊ	150,000	
161	Indian Springs V.	655	3,200	80	>20	9.	270,000	
162	Pahrump V.	789	2,800	4	>20	7.	420,000	
163	Mesquite V. (Sandy V.)	236	2,600	8	>20	9.	000'06	200-250
164	Ivanpah V.	326						200-250
	(a) Northern Part	235	2,700	8	>20	ις	81,000	
	(b) Southern Part	88	2,800	80	>15	9.	33,000	
165	Jean Lake V.	96	2,800	8	>12	ις	32,000	
166	Hidden Valley (South)	34	3,100	8 \	8 \	ζ.	11,000	
167	Eldorado V.	530	1,800	മ	>12	φ.	190,000	275
168	Three Lakes V. (North. Part)	298	3,600	8 >	>20	9.	110,000	
169	Tikapoo V.	866						
	(a) Northern Part	627	4,300	& V	>20	9:	230,000	
	(b) Southern Part	380	3,400	8 V	>20	9:	150,000	
170	Penoyer V. (Sand Springs V.)	700	5,000	& V	>20	9.	270,000	
171	Coal V.	460	5,000	8 V	>20	9.	170,000	150
172	Garden V.	493	5,500	& V	>15	.7	230,000	150
173	Railroad V.	2,752	4,900					
	(a) Southern Part	603	4,900	& V	<20	9:	250,000	
	(b) Northern Part	2,149	4,800	7	>24	7.	000'066	
174	Jakes V.	422	6,400			6:	240,000	
175	Long V.	651	6,100	9 \	>15	9:	250,000	100
176	Ruby V.	1,004	000'9	& V	>20	1.1	720,000	107
177	Clover V.	464	5,700	വ	35	6,	260,000	100
178	Butte V.	1,010						100-130
	(a) Northern Part	271	6,100	8 \	>20	89.	140,000	
	(b) Southern Part	739	6,300	<12	>20	6.	420,000	
179	Steptoe V.	1,942	5,900	9	>20	1.0	1,200,000	119
180	Cave V.	362	6,100	8 V	>20	o;	220,000	
181	Dry Lake V.	882	4,800	& V	>20	9.	340,000	150
182	Delamar V.	383	4,600	ж У	>12	9.	140,000	150
183	Lake V.	557	6,000	8	>20	80.	290,000	100

			CENTR	CENTRAL REGION, continued	tinued		Table	Table 2 – Page 9 of 11
Hydrographic		Approximate	Approximate		Average Ar	Average Annual Precipitation		Average
Area	Hydrographic Area	Area (Square Miles)	Altitude of Valley Floor	Minimum (Inches)	Maximum (Inches)	Average (Feet)	Total (Acre-Feet)	Growing Season (Days)
184	Spring V.	1,661	5,700	8 >	>20	6.	000'096	100
185	Tippett V.	345	5,700	& V	>20	7.	160,000	110
186	Antelope V. (White Pine & Elko)	395						
	(a) Southern Part	125	2,900	& V	>15	7.	52,000	110
	(b) Northern Part	270	5,600	8 \	>20	7.	120,000	110
187	Goshute V.	954	2,600	& V	>15	7.	440,000	100
188	Independence V. (Pequop V.)	562	2,600	ß	>15	8 .	250,000	100
		Total	Range	Minimum	Maximum	Average	Total	Range
REGION SUMMARY	UMMARY	46,783	1800-7200	< 4 4	>24	7.	22,000,000	75-275
			GREA	GREAT SALT LAKE BASIN	ASIN			
189	Thousand Springs V.	1,446						
	(a) Herrill Siding – Brush Creek Area	163	2,900	- ω - ∨	>15	7.	72,000	100
	(b) Toano-Rock Spring Area	618	2,600	ж У	>15	9.	250,000	100
	(c) Rocky Butte Area	183	5,200	ж У	>12	9.	75,000	100
	(d) Montello—Crittenden Creek Area (Montello V.)	482	4,900	9	>15	9.	190,000	110
190	Grouse Creek V.	55	2,000	8 V	>12	7.	24,000	140
191	Pilot Creek V.	326	4,600	& V	>20	9.	130,000	110
192	Great Salt Lake Desert	205	4,300	\ \	>20	9.	200,000	200
193	Deep Creek V.	208	5,200	& V	>20	9.	000'98	110
194	Pleasant V.	75	6,200	<13	>16	1.2	54,000	
195	Snake V.	777	5,200	80	24	1.2	280,000	150
196	Hamlin V.	413	5,800	10	>24	1.0	260,000	
		Total	Range	Minimum	Maximum	Average	Total	Range
BASIN SUMMARY	MMARY	3,807	4300-6200	< 5	>20	8.	1,900,000	100-200
			ESC	ESCALANTE DESERT	RT			
197	Escalante Desert	106	5,800	<12	>15	7-	76,000	120

			COF	COLORADO RIVER BASIN	ASIN		Table 2 ~	Page 10 of 11
198	Dry V.	113	5,400	8 >	>15	7.	50,000	
199	Rose V.	12	5,500	8 \	>12	9.	5,100	
200	Eagle V.	52	5,600	8 >	>15	œί	28,000	
201	Spring V.	287	6,000	8 >	>20	1.0	180,000	
202	Patterson V.	418	5,600	8 >	>20	7.	190,000	160
203	Panaca V.	334	4,800	8 \	20	8.	180,000	160
204	Clover V.	364	5,000	8 >	<15	9.	140,000	
205	Lower Meadow Valley Wash	979	2,600	S	>12	ĸ.	320,000	180
206	Kane Springs V.	234	3,300	8 >	<15	ī.	80,000	
207	White River V.	1,607	5,400	8 >	>24	7.	750,000	
208	Pahroc V.	508	5,000	8 >	>15	9.	190,000	
209	Pahranagat V.	768	3,700	9 >	>15	c.	270,000	180
210	Coyote Spring V.	657	2,500	8 >	>20	ιĊ	220,000	
211	Three Lakes V. (South. Part)	311	3,100	8 \	>20	7.	130,000	
212	Las Vegas V.	1,564	2,000	4	>24	7.	000'099	275
213	Colorado River V.	563	800	4 \	<15	4.	150,000	330
214	Piute V.	338	2,800	\ 5	>12	ιĊ	110,000	275-330
215	Black Mountains Area	930	1,200	\ 5	80 ^	ເບຸ	200,000	
216	Garnet V.	156	2,000	\ S	>12	ιτί	28,000	
217	Hidden V. (North)	80	2,700	< >2	>12	9.	28,000	
218	California Wash	318	1,800	\ 5	>12	ທຸ	100,000	250
219	Muddy River Springs Area (Upper Moapa V.)	91	1,800	\ 5	∞ ^	ĸ.	33,000	250
220	Lower Moapa V.	252	1,400	4	>12	ທຸ	76,000	255
221	Tule Desert	192	3,200	8 V	>15	7.	110,000	
222	Virgin River V.	206	1,500	9	>15	9.	320,000	260
223	Gold Butte Area	533	1,200	\ \	>12	ιĊ	180,000	
224	Grease Wood Basin	108	2,200	< 5	>12	9.	43,000	
- -		Total	Range	Minimum	Maximum	Average	Total	Range
BASIN SUMMARY	MMARY	12,376	800-6000	< 4	>24	.6	4,800,000	160-330
			DEA	DEATH VALLEY BASIN	NIS			
225	Mercury V.	110	3,200	8	>15	ъ	38,000	
226	Rock V.	82	3,300	ж У	80 ^	ιĊ	26,000	

Hydrographic Area Hydrographic Area Approximate Area 227 Forty Mile Canyon 519 228 (a) Jackass Flats 279 228 Oasis V. 460 229 Crater Flat 182 230 Amargosa Desert 896 231 Grapevine Canyon 162 232 Oriental Wash 182 BASIN SUMMARY 2,593	DEATH	DEATH VALLEY BASIN, continued	continued		Table 2	Table 2 — Page 11 of 11
Hydrographic Area Forty Mile Canyon (a) Jackass Flats (b) Buckboard Mesa Oasis V. Crater Flat Amargosa Desert Grapevine Canyon Oriental Wash	-		Average Ar	Average Annual Precipitation		O D C A C A C A C A C A C A C A C A C A C
Forty Mile Canyon (a) Jackass Flats (b) Buckboard Mesa Oasis V. Crater Flat Amargosa Desert Grapevine Canyon Oriental Wash IN SUMMARY Zott	Area Altitude of uare Miles) Valley Floor	Minimum (Inches)	Maximum (Inches)	Average (Feet)	Total (Acre-Feet)	Growing Season (Days)
(a) Jackass Flats (b) Buckboard Mesa Oasis V. Crater Flat Amargosa Desert Grapevine Canyon Oriental Wash IN SUMMARY 2	519					į
(b) Buckboard Mesa Oasis V. Crater Flat Amargosa Desert Grapevine Canyon Oriental Wash IN SUMMARY Z	279 3,500	& V	>15	ī.	000'26	
Crater Flat Amargosa Desert Grapevine Canyon Oriental Wash IN SUMMARY Z	240 5,000	& V	>12	9:	91,000	
Crater Flat Amargosa Desert Grapevine Canyon Oriental Wash IIN SUMMARY 2	3,800	\ 5	>12	ιυί	150,000	184
Amargosa Desert Grapevine Canyon Oriental Wash IN SUMMARY 2	182 3,200	& V	>12	7.	61,000	
Grapevine Canyon Oriental Wash To	2,600	\ 4	>15	4.	240,000	180-200
Oriental Wash To	162 4,200	& V	>12	·5.	49,000	150
<u> </u>	182 4,000	8 >	>12	7.	58,000	140
	otal Range	Minimum	Maximum	Average	Total	Range
Total	2,593 2600-5000	\ 5	>15	5:	810,000	<140-200
Total						
	otal Range	Minimum	Maximum	Average	Total	Range
STATE SUMMARY 110,540	10,540 800-7200	m	>40	œ	54,000,000	42-330



GROUND WATER DATA

Explanation of Table Headings

Table 3

Ground Water Recharge from Precipitation

Precipitation is so scarce on the valley floors that very little ever reaches ground water reservoirs; most of the valley recharge comes from precipitation in the adjacent mountains. Water reaches the ground water reservoir by seepage from streams on the alluvial apron and by underground flow from consolidated rocks. Yet even most of this precipitation evaporates before infiltration, while some adds to soil moisture, leaving only a small percentage to recharge the ground water reservoir.

A method* used to estimate recharge assumes that a percentage of the average annual precipitation will recharge the ground water reservoirs. But in some hydrographic areas, because of uncommonly large precipitation, some of this recharge (computed and listed in Table 3) may be rejected by the ground water system. This excess water remains in the streams and either flows out of the hydrographic area or accumulates on playas, where most of it evaporates. Recharge quantities preceded by an "a" in Table 3 probably are in part rejected; therefore the actual ground water recharge is somewhat less than computed.

The ground water budgets for some of the areas shown in the table do not balance and additional information will be required before the imbalances can be completely resolved. An example of such an imbalance is Honey Lake Valley (97). The ground water recharge from precipitation is estimated to be 1400 acre feet per year and the ground water subsurface inflow is nearly 600 acre feet for a total inflow of approximately 2000 acre feet (Table 3). The ground water evapotranspiration is estimated to be 7000 acre feet, thus an imbalance of approximate-Iv 5000 acre feet per year exists. The imbalance is probably due to a larger proportion of precipitation becoming recharge or, there is an unaccounted for routing of subsurface flow through the consolidated rocks to the valley-fill reservoir.

Sub-surface Inflow

Sub-surface flow of ground water between hydrographic areas of Nevada is common. Ground water flow through alluvium and consolidated rocks was computed by means of a form of Darcy's law:

Q = 0.00112 TIW

in which "Q" is the quantity of flow, in ac. ft. per

year; "T" is the coefficient of transmissibility, in gallons per day per foot; "I" is the hydraulic gradient, in feet per mile; "W" is the width of the flow section in miles; and factor 0.00112 converts gallons per day to ac. ft. per year. The estimated quantity of inflow, as well as the source area, is listed in Table 3 and shown in Figure 5.

Evaporation-Transpiration

In areas where ground water is close to the surface discharge occurs by evaporation from soil and by transpiration of plants that have roots to the water table. These plants which tap ground water are called "phreatophytes".

Ground water evaporates in some areas where the depth to water is as great as 15 feet. And some phreatophytes discharge ground water where the depth to water is as deep as 50 feet.

Sub-surface Outflow

Ground water outflow is evaluated and estimated similar to sub-surface inflow, as discussed above. The estimated quantity of outflow, as well as the area receiving the flow, is listed in Table 3 and shown in Figure 5.

Region, Basin and State Totals

Region, basin, and state totals for sub-surface inflow and outflow are not the sum of the individual areas because quantities of water circulate among hydrographic areas within regions, basins and within the state. All other water quantities in Table 3 generally are additive.

Water Quality

Although ground water resources in Nevada are large, many factors reduce the amount of water which could economically be withdrawn. Some aquifers are very deep, may yield only small amounts of water to wells and are widely distributed, not concentrated as are the demands on them. Water quality is another important facet of water supply. In many cases, ground water quality is not adequate for drinking or other uses. Figure 3 shows some of the known areas of poor quality water. The information shown is largely based on analyses of waters from wells and springs.

*Described by T.E. Eakin in Nevada Water Resources Bulletin 12.

Hydrographic Area Number Ground Water Perceiptation Area Perceiptation Precipitation Perceiptation Ground Water Inflow Area Perceiptation Perceiptation Area Perceiptation Area Perceiptation Area Perceiptation Ground Water Inflow Area Perceiptation Area Perceiptation Area Perceiptation Hydrographic Area Perceiptation Hydrographic Area Perceiptation Area Perceiptation Hydrographic Area Perceiptation </th <th></th> <th></th> <th></th> <th></th>				
Hydrographic Area Recharge From Hydrographic Area Recharge From Acre Feet Acre	Ground Water Inflow		Ground Wat	Ground Water Outflow
blo V. Itinental Lake V. Jobo Jay Lake V. Jobo Jun V. Ju		Ground Water Evapotranspiration (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
tinental Lake V. Iley Lake V. a 4,500 yin V. b Hen V. a 4,000 a 4,000 a 4,000 a 6,700 g V. sacre Lake V. g V. a 10,000 y Flat a 5,000 ner V. a 5,000 a 2,700 k Lake V. a 64,000 a 1,300 y Flat a 5,000 a 1,300 k Lake V. a 5,000 a 1,300 c 1,300 c 1,300 c 1,300 c 1,000 c 1,300 c 1,000 c 1,		1,200	1,000	Oregon
Jley Lake V. a 4,500 jin V. a 500 in Lake V. a 6,700 sacre Lake V. a 6,700 sacre Lake V. a 10,000 g V. a 10,000 in Lake V. a 1,000 orise V. a 5,000 in rer Flat a 5,000		10,500	0	
a Hen V. a Hen V. a 4,000 a 4,000 a 10,000 a 10,000		2,000	0	
a 500 In Lake V. a 6,700 sacre Lake V. a 6,700 g V. sacre Lake V. a 10,000 a 1,000 sman V. a 1,000 ner V. a 2,700 k Lake V. a 2,700 k Lake V. a 64,000 Impers Flat a 1,300 V. c 200		6,000	0	
a 4,000 n Lake V. sacre Lake V. g V. g V. a 10,000 a 10,000 a 10,000 a 10,000 a 10,000 ner V. a 5,000 ner V. a 5,000 it Lake V. a 64,000 it Flat a 1,300 v. c 100		0	> 200	4
a 6,700 sacre Lake V. a 10,000 g V. g V. a 10,000 a 1,000 a 1,000 a 1,000 a 1,000 a 1,000 a 5,000 b Lake V. a 2,700 k Lake V. a 64,000 c a 64,000 c a 64,000 c a 1,300	0	Minor	< 4,000	Oregon
sacre Lake V. 3,500 g V. a 10,000 sman V. a 1,000 ner V. a 5,000 ider V. a 2,700 k Lake V. a 64,000 in Flat a 500 v	0	0	0	
g V. y Flat a 10,000 aman V. quito V. ner V. x Lake V. a 5,000 a 2,700 a 64,000 in Flat a 64,000 y Flat a 5,000 a 64,000 a 64,000 y Flat a 5,000 a 64,000 b Flat a 1,300 v 700 c 700 a 64,000	0	2,500	2,000	6
a 500 eman V. a 1,000 or guito V. - 700 ner V. a 5,000 orise V. a 2,700 ik Lake V. a 64,000 rim Flat a 500 ov. a 1,300 ov. - 10		11,000	0	
rim Flat a 1,300 a 1,000 a 1,000 a 5,000 a 2,700 b 2,700 c Lake V. a 64,000 a 64,000 c A 1,300 c A 1,000	0	0	200	6
rim Flat a 5000 rer V. a 5,000 a 2,700 a 64,000 a 64,000 a 64,000 a 64,000 a 64,000 cim Flat a 500 cim Flat a 500 v. 200	0	Minor	1,000	Oregon
Inder V. 1,800 orise V. a 5,000 it Lake V. a 2,700 it Lake V. a 64,000 rim Flat a 500 or v. 200	0	1,600	0	
in Flat a 5,000 a 5,000 a 2,700 a 2,700 a 2,700 a 64,000	0	Minor	< 1,800	Oregon
ider V. a 2,700 k Lake V. a 64,000 rim Flat a 500 rim Flat a 1,300 V. 200	0	0	5,000	Calif.
ik Lake V. 9,000 a 64,000 rim Flat a 500 v. 200	0	< 2,700	2,000	6
rim Flat a 500 V. 200	0	2,000	0	
Pigrim Flat a 500 Painters Flat a 1,300 Dry V. 200 Sano V.		45,000	13,000	Oregon, Calif.
Pilgrim Flat a 500 Painters Flat a 1,300 Dry V. 200 Sano V. 10	BLACK ROCK DESERT REGION			
Painters Flat a 1,300 Dry V. 200 Sano V. 10	0	> 10	200	Calif.
Dry V. 200	0	1,200	0	
Sano V	0	20	180	21
	0	30	0	
21 Smoke Creek Desert 13,000 380 19,22		19,000	0	

N

V

							0.11
		m	BLACK KOCK DESERI REGION, continued	REGION, continued			l able 3 – rage z of 10
22	San Emidio Desert	2,100	0		3,000	300	21,28
23	Granite Basin	а 400	0		0	Minor	28
24	Hualapai Flat	7,000	0		6,300	400	28
25	High Rock Lake V.	13,000	0		750	000'6	26
26	Mud Meadow	8,000	000′6	25	11,000	1,500	28
27	Summit Lake V.	a 4,200	0		Minor	Some	26
28	Black Rock Desert	20,000	4,700	22,23,24,26,29	35,000	Minor	22
29	Pine Forest V.	10,000	250	30,31	11,000	2,700	28
30	Kings River V.	a 15,000	I	-	16,000	100	29
	a) Rio King Sub Area		300	32,33			
	b) Sod House Sub Area						
31	Desert V.	5,000			10,000	150	29
32	Silver State V.	1,400	4,500	33	5,800	100	30
33	Quinn River V.	a 62,000	Minor	Oregon	51,000	4,700	31,32
	a) Orovada Sub Area						
	b) McDermitt Sub Area						
REGION TOTAL	TOTAL	a 160,000	Minor	Oregon	170,000	500	Calif.
L							
			SNAKE RIVER BASIN	ER BASIN			
			i				
34	Little Owyhee River Area	2,700	0		Minor	Minor	Idaho
32	South Fork Owyhee River Area	а 12,000	Minor	36, Idaho	8,000	Minor	Idaho
36	Independence V.	a 16,000	0		12,000	Minor	35
37	Owyhee River Area	a 17,000	0		7,100	Minor	Idaho
æ 	Bruneau River Area	а 26,000	0		3,200	Some	Idaho
99	Jarbidge River Area	а 32,000	0		Minor	Some	Idaho
40	Salmon Falls Creek Area	а 44,000	0		10,000	Minor	Idaho
41	Goose Creek Area	a 6,700	Some	Idaho	1,700	Minor	Utah
BASIN TOTAL	OTAL	a 160,000	Some	Idaho	42,000	Some	Idaho, Utah
			HUMBOLDT RIVER BASIN	VER BASIN			
42	Marys River Area	a 54,000					
43	Starr Valley Area	a 26,000			000'88	 	 > 45,49
44	North Fork Area	a 58,000	Minor	42,43			
				-			

I.

		H	HUMBOLDT RIVER BASIN, continued	ASIN, continued		•	Table 3 — Page 3 of 10
		Ground Water	Ground V	Ground Water Inflow		Ground W	Ground Water Outflow
Hydrographic Area Number	Hydrographic Area	Recharge From Precipitation (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	Ground Water Evapotranspiration (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
45	Lamoille V.	a 36,000	0				
46	South Fork Area	а 4,000	0		3,000	009	48
47	Huntington V.	a 14,000	0		14,000	10,400	48,176
48	Dixie Creek Tenmile Creek Area	a 13,000	1,000	46,47	4,000	000'6	49
49	Elko Segment	a 7,400			13,000		
20	Susie Creek Area	a 8,000			6,100	Minor	~. _/
51	Maggie Creek Area	a 16,000				\	
52	Marys Creek Area	1,500					[
53	Pine V.	a 50,000	0		15,000	008'6	54,61,153
54	Crescent V.	а 13,000	> 300	53,55	12,000	Minor	60,61
55	Carico Lake V.	a 4,300	0		3,800	300	54
56	Upper Reese River V.	a 37,000	0		37,000	200	58
57	Antelope V.	a 11,000			200	9'000	58
28	Middle Reese River V.	7,000	6,500	56,57	3,000	000'6	59
59	Lower Reese River V.	14,000	17,000	58,131	22,000	3,000	ر 19 ح
09	Whirlwind V.	1,700					
61	Boulder Flat	17,000	Minor	53,54	30,000	2,000	
62	Rock Creek V.	000'6			7> 2,800		
63	Willow Creek V.	a 15,000					
64	Clovers Area	9'000					
92	Pumpernickel V.	3,400			72,000	000,1	02 <u>}</u>
99	Kelly Creek Area	4,000				·—-1	
29	Little Humbolt V.	a 21,000	0		4,000	300	69
89	Hardscrabble Area	a 9,000	0		Minor	Minor	69
69	Paradise V.	10,000	300	89'29	40,000	3,500	70
70	Winnemucca Segment	4,400	000'6	65,66,69,71	16,000	3,000	72
71	Grass V.	12,000			13,000	4,000	70
72	Imlay Area	000'2	3,000	70	7,400	1,000	73
73	Lovelock V.	3,200	1,000	72	31,000	Some	73
	a) Oreana Sub Area	2,000					
74	White Plains	Minor	Some	73		ŭΙ	101
BASIN TOTAL	ידאר	а 500,000	0		> 430,000	000'6	
		-		-			

			WEST CENTRAL REGION	NEGION			Table 3 – Page 4 of 10
75	Bradys Hot Springs Area	160	1,200	76,97	3,000	0	
76	Fernley Area	009	0			5,800	75,82,83
77	Fireball V.	200			0	200	75
78	Granite Springs V.	3,500	1,000	79	4,400	0	
62	Kumiva V.	1,000			0	1,000	78
REGION TOTAL	TOTAL	5,500	0		7,400	4,800	
			TRUCKEE RIVER BASIN	FR BASIN			
Q	Winnermann ake	000	700	2	\ 000 k	c	
	Pyramid Lake V.	009'9	350	82.84		350	80
82	Dodge Flat	1,400	2,800	76,83		150	81
83	Tracy Segment	000'9	2,100	76,87		700	82
84	Warm Springs V.	000'9	0		1,500	≥ 200	81,97
85	Spanish Springs V.	009	0		006	100	87
98	Sun V.	50	0		2	25	87
87	Truckee Meadows	a 27,000	1,100	85,86,88,91		Minor	83
88	Pleasant V.	a 10,000	20	68		300	87
88	Washoe V.	a 15,000	0		8,500	20	88
06	Lake Tahoe Basin	a 45,000	0		Minor	0	
16	Truckee Canyon Segment	a 27,000	400	Calif.		700	87
BASIN TOTAL	OTAL.	a 150,000	> 4,600		> 16,000	Some ?	
			WESTERN REGION	REGION			
92	Lemmon V.	2,100			1,200		
	a) Western Part						
	b) Eastern Part						
63	Antelope V.	300	0		0	Some	94
94	Bedell Flat	1,100	Some	93	30	> 200	66
92	Dry V.	2,400	0		80	2,200	Calif.
96	Newcomb Lake V.	а 300	0		130	0	
6	Honey Lake V.	1,400	000	84, Calif.	7,000	0	
86	Skeedaddie Creek V.	009	0		01 >	009	Calif,

Hydrographic Area Hydrographic Area Ground Water Ground Water Hydrographic Area Hydrographic A				WESTERN REGION, continued	N, continued		Ĕ	Table 3 – Page 5 of 10
Hydrographic Area Recipitation Percipitation Per Vear Hydrographic Area Hy			Ground Water	Ground M	Jater Inflow		Ground Wa	ater Outflow
And Servings V. a 1,000 CARSON RIVER BASIN¹ rivon Desert rivon Deser	Hydrographic Area Number		Recharge From Precipitation (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	Ground Water Evapotranspiration (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
CARSON RIVER BASIN 1300 130 Minor 130 Minor 130 Minor 1300	66	Red Rock V.	1,600		94	930	Minor	Calif.
CARSON RIVER BASIN	100	Cold Springs V.		0		130	Minor	Calif.
CARSON RIVER BASIN1 CARSON RIVER BASIN1	REGION	TOTAL	[]	l. I		000'6		
Name				2000	lwo od dr			
rean Desert 2,000 Minor 7 74,102 Minor 7 <				CARSON RIV	בא סאסווא			
vyton V. 1,300 Minor ? 103,008 Minor ? Minor ? <th< td=""><td>101</td><td>Carson Desert</td><td>2,000</td><td>Minor ?</td><td>74,102</td><td></td><td>Minor ?</td><td>123</td></th<>	101	Carson Desert	2,000	Minor ?	74,102		Minor ?	123
sgle V. a 8700 Minor ? 104,105 4,000 Minor ? rson V. a 8700 3,000 Calif. 4,000 Minor rson V. a 45,000 Some Calif. 5,700 200 ristope V. a 5,000 Some Calif. 5,700 200 nith V. a 21,000 Some Calif. 6,500 1500 alker Lake V. a) Schutz Sub Area 600 Some 107,109 57,000 1500 b) Lake Sub Area 600 Some 10,00 Some 10,00 Some c) Whiskey Fist Hawthorne 5,400 Some 12,00 Some 150 c) Whiskey Fist Hawthorne a 46,000 Some > 92,000 150 b) Northern Pa	102	Churchill V.	1,300	Minor ?	103,108		Minor ?	101
National	103	Dayton V.	006'2	Minor ?	104,105		Minor ?	102
rison V. a 5,000 3,000 Calif. Minor Italope V. a 5,000 Some Calif. 5,700 200 Inith V. a 21,000 200 106 5,700 200 Ist Valker Area 12,000 500 106 5,700 1,500 Ist Valker Area 12,000 500 107,109 5,700 1,500 Ist Valker Area 12,000 50me Calif. 6,500 1,500 Ist Valker Area 500 1,400 108 17,000 50me Ist Lake Sub Area 600 50me 110A,110C 800 0 O) Whiskey Pist Hawthorne 5,400 50me 110A,110C 800 0 Sub Area 600 50me 50me 110A,10C 800 0 Sub Area 5,400 50me 50me 50,000 150 150 Ist Valley a 46,000 50me 50,000 14,000 50,000 14,000 Ist Valley	104	Eagle V.		0		4,000	Minor	103
WALKER RIVER BASIN retope V. a 5,000 Some Calif. 5,700 200 sson V. a 21,000 200 106 57,000 1,500 sson V. 2,000 500 107,109 57,000 1,500 sson V. 12,000 Some 107,109 500 1,500 slker Lake V. 500 1,400 108 17,000 Some b) Lake Sub Area 600 Some 110A,110C 800 0 c) Whiskey Flat Hawthorne 5,400 300 121B 4,600 Some Sub Area 46,000 Some 121B 4,600 Some sub Area 46,000 Some 121B 4,600 150 b) Sub Area A6,000 Some 1400 1400 b) Southern Part 1,400 0 1,400	105	Carson V.		3,000	Calif.		Minor	103
MALKER RIVER RASINA ntelope V. a 5,000 Some Calif. 5,700 500 nith V. a 21,000 200 106 5,7000 1,500 ason V. 2,000 500 107,109 57,000 1,500 ast Walker Area 12,000 50me 1,600 1,500 1,500 alker Lake V. alker Lake V. 1,400 108 1,7,000 50me b) Lake Sub Area 600 5,400 300 1218 4,600 50me c) Whiskey Flat Hawthorne 5,400 300 1218 4,600 50me c) Whiskey Flat Hawthorne 5,400 30me 120 4,600 50me c) Whiskey Flat Hawthorne 5,400 50me 1218 4,600 50me c) Whiskey Flat Hawthorne 5,400 50me 120 7,000 150 c) Whiskey Flat Hawthorne 5,400 50me 7,000 50me 150 c) Whiskey Flat Hawthorne 5,400 50me <	BASIN TO	DTAL						
ntelope V. a 5,000 Some Calif. 5,700 200 nith V. a 21,000 200 106 5,700 1,500 ass Walker Area 12,000 Some Calif. 6,500 1,500 al Schurz Sub Area 500 1,400 108 17,000 Some b) Lake Sub Area 600 Some 110A,110C 800 0 c) Whiskey Flat Hawthorne 5,400 Some 1218 4,600 Some c) Whiskey Flat Hawthorne 5,400 Some 1218 4,600 Some c) Whiskey Flat Hawthorne 5,400 Some 10A,000 Some 150 sub Area a 46,000 Some > 92,000 150 lkali Valley a 46,000 Some > 92,000 150 b) Southern Part 400 0 1,400				WALKER RIVE	ER BASIN		1,000	
mith V. a 21,000 200 106 500 500 ason V. 2,000 500 107,109 57,000 1,500 ast Walker Area 12,000 Some Calif. 6,500 1,500 alker Lake V. 500 1,400 108 17,000 Some b) Lake Sub Area 600 Some 110A,110C 800 0 c) Whiskey Flat Hawthorne 5,400 Some 121B 4,600 Some c) Whiskey Flat Hawthorne 5,400 Some 121B 4,600 Some Sub Area 46,000 Some 5,000 150 Rali Valley 300 120 150 a) Northern Part 400 0 1,400	106	Antelope V.		Some	Calif.	6,700	200	107
ason V. 2,000 500 107,109 57,000 1,500 alker Lake V. 12,000 Some Calif. 6,500 1,500 b) Lake Sub Area 500 1,400 108 17,000 Some c) Whiskey Flat Hawthorne 5,400 300 1218 4,600 Some c) Whiskey Flat Hawthorne 5,400 Some 7,200 Some c) Whiskey Flat Hawthorne 4,600 Some 150 c) Whiskey Flat Hawthorne 5,400 Some 0 c) Whiskey Flat Hawthorne 5,400 Some 150 A 46,000 Some CENTRAL REGION A 400 D) Southern Part A 400 D) Southern Part A 400 D) Southern Part A 400 D) T,400 D)	107	Smith V.		200	106		200	108
sst Walker Area 12,000 Some Calif. 6,500 150 alker Lake V. a) Schutz Sub Area 500 1,400 108 17,000 Some b) Lake Sub Area 600 Some 110A,110C 800 0 c) Whiskey Flat Hawthorne 5,400 Some 7,800 Some c) Whiskey Flat Hawthorne a 46,000 Some 5,200 150 kull Valley a 46,000 Some 5,200 150 kali Valley a) Northern Part 400 0 1,400 b) Southern Part 1,400 0 1,400 0	108	Mason V.	2,000	200	107,109	22,000	1,500	102,110
al Schutz Sub Area 500 1,400 108 17,000 Some b) Lake Sub Area 600 Some 110A,110C 800 0 c) Whiskey Flat Hawthorne 5,400 300 1218 4,600 Some Sub Area a 46,000 Some > 92,000 150 Ikali Valley A00 0 300 0 b) Southern Part 4,400 0 0 1,400	109	East Walker Area	12,000	Some	Calif.	6,500	150	108
a) Schurz Sub Area	110	Walker Lake V.						
b) Lake Sub Area		a) Schurz Sub Area	200	1,400	108	17,000	Some	1108
c) Whiskey Flat Hawthorne 5,400 300 121B 4,600 Some Sub Area a 46,000 Some > 92,000 150 Ikali Valley Ikali Valley a) Northern Part 400 0 300 0 b) Southern Part 1,400 0 1,400		b) Lake Sub Area	009	Some	110A, 110C	800	0	
A 46,000 Some Some Some 150 150 Some Some Some 150 Some So			5,400	300	1218	4,600	Some	1108
Alkali Valley a) Northern Part b) Southern Part cENTRAL REGION 300 0 1,400 0 1,400	BASIN TO	JTAL		Some		ļ ļ	150	
Alkali Valley a) Northern Part b) Southern Part 1,400 0 300 0 1,400				CENTRAL	REGION			
400 0 300 0 1,400 0 1,400	111	Alkali Valley						
0,400		a) Northern Part	400	0 (300	0 0	9
		b) Southern Part	1,400	0		0	1,400	Calit.

	a 700	0		0	700	Calif.
	800	0		300	300	114 or 110C
	1,300	< 300	113	1,400	0	
	а 300	0		40	< 260	Calif.
	a 2,000	0		0	001,1 ✓	Calif.
	2,300	Some	Calif.	22,000	> 200	118
Columbus Salt Marsh V.	700	> 200	117,137A	4,000	0	
Rhodes Salt Marsh V.	200	400	120,121A	1,000	0	
	300	0		0	300	119,121A
a) Eastern Part	009	200	120	300	009	119,121B
b) Western Part	100	300	121A	30	300	110C
	2,000	0		3,700	0	
	150	350	101	800	0	
	200	0		0	200	128
	110	Minor	126		Minor	128
	800	Minor	127	400	Minor	125
Eastgate Valley Area	a 4,000	0			Minor	126
	000′9	1,800	124,125,130,132	16,500	0	
	10,000	0		12,500	0	
	3,000	0		2,200	800	128
	12,000	0		4,000	8,000	29
	800	0		0	200	128
Edwards Creek V.	8,000	0		7,300	0	
	12,000	0		009′9	0	
	8,000	0	-	1,300	2,000	137A
	200	0		400	0	
a) Tonopah Flat	12,000	2,000	135	000′9	8,000	143
b) Northern Part	a 65,000	0		64,000	0	
	13,000	0		12,000	0	
	11,000	9'000'9	140A,151	15,000	Minor	153
		_				
a) Northern Part	008'9	2,000	1408	2,000	000'9	139
b) Southern Part	15,000	0		9,200	2,000	140A

-			CENTRAL REGI®N, centinued	ION, continued		H-	Table 3 – Page 7 of 10
		Ground Water	Ground N	Ground Water Inflow		Ground W	Ground Water Outflow
Hydrographic Area Number	Hydrographic Area	Recharge From Precipitation (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	Ground Water Evapotranspiration (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
141	Ralston V.	5,000	3,000	149	2,500	5,500	142
142	Alkali Spring V. (Esmeralda)	100	5,500	141	400	5,000	143
143	Clayton V.	1,500	13,000	137A,142	24,000	0	
144	Lida V.	200	200	145	0	700	146
145	Stonewall Flat	100	Some ?	148	0	200	144
146	Sarcobatus Flat	1,200	1,300	144,148	3,000	200	231
147	Gold Flat	3,800	0		0	3,800	227A,228
148	Cactus Flat	009	0		0	009	146
149	Stone Cabin V.	5,000	0		2,000	3,000	141
150	Little Fish Lake V.	11,000	0		10,000	> 200	156
151	Antelope V. (Eureka & Nye)	4,100	0		4,200	Some	139,155A
152	Stevens Basin	200	0		0	200	151,153 or 155A
153	Diamond V.	a 21,000	000'6	53,139	30,000	0	
154	Newark V.	17,500	1,000	155A	18,500	0	
155	Little Smoky V.						
	a) Northern Part	4,000	Some	151,155A,155B	1,900	1,000	154
	b) Central Part	200	0		0	200	155A
	c) Southern Part	1,400	Some	156	0	Some	17.38
156	Hot Creek V.	000'2	> 200	150	4,600	Some	173B,155C
157	Kawich V.	3,500	1,000	173A	0	4,500	227B
158	Emigrant V.						
	a) Groom Lake V.	3,200	0		0	3,200	161
	b) Papoose Lake V.	> 10	0		0	< 10	160
159	Yucca Flat	200	0		0	700	160
160	Frenchman Flat	100	33,000	158B,159,161	0	33,000	225,226
161	Indian Springs V.	10,000	22,000	158A,168,211	Minor	32,000	160
162	Pahrump V.	22,000	0		10,000	7 000°E1	162, Calif.
163	Mesquite V. (Sandy V.)	1,400	700	162?	2,200	Minor	Calif.
164	Ivanpah V.						
	a) Northern Part	200	800	Calif.	0	1,500	165,212
	b) Southern Part	200	0		0	200	Calif.
165	Jean Lake V.	100	1,500	164	0	> 100	212,166 ?

			SCHITCH OF STATE			 	11-2 December 24.00
			CENTRAL REGION, CONTINUES	JIV, continued			l able 3 – rage 6 of 10
166	Hidden Valley (South)	Minor	Minor	165	0	Minor	167,212
167	Eldorado V.	1,100	Minor	166	0	1,100	213
168	Three Lakes V. (Northern Part)	2,000	000'9	169B	0	8,000	161
169	Tikapoo Valley						
	a) Northern Part	2,600	0		0	2,600	169B
	b) Southern Part	3,400	2,600	169A	0	000'9	168
170	Penoyer V. (Sand Springs V.)	4,300	0		6,400	0	
171	Coal V.	2,000	8,000	172	Minor	10,000	509
172	Garden V.	10,000	0		2,000	8,000	171
173	Railroad V.				20,000		
	a) Southern Part	000'9				1,000	157
	b) Northern Part	46,000	Some	155C,156		0	
174	Jakes V.	17,000	8,000	175	0	25,000	207
175	Long V.	10,000	0		2,200	8,000	174
176	Ruby V.	a 68,000	10,800	47, 178A	23,000	0	
177	Clover V.	a 21,000	¿ 0		19,000	Minor	188
178	Butte V.						
	a) Northern Part	3,900	0		006'9	800	176
	b) Southern Part	a 15,000	0		11,000	خ	~
179	Steptoe V.	a 85,000	0		000'02	Some	187
180	Cave V.	а 14,000	0		200	14,000	207
181	Dry Lake V.	5,000	0		Minor	5,000	182
182	Delamar V.	1,000	2,000	181	Minor	000′9	509
183	Lake V.	13,000	0		8,500	3,000	202
184	Spring V.	а 75,000	2,000	185	000'02	4,000	196
185	Tippett V.	006'9	0		0	7,000	184,186A,193
186	Antelope V. (White Pine & Elko)						
	a) Southern Part	1,500	3,000	185	0	4,500	192
	b) Northern Part	3,200	300	187	100	3,400	192
187	Goshute V.	11,000	Some	179	10,000	2,300	1868,191,192
188	Independence V. (Pequop V.)	9,300	Minor	177	9,500	0	
REGION TOTAL	TOTAL	a 770,000	21,000		630,000	140,000	

			GREAT SALT LAKE BASIN	AKE BASIN		—	Table 3 – Page 9 of 10
		Ground Water	Ground M	Ground Water Inflow		Ground Wa	Ground Water Outflow
Hydrographic Area Number	Hydrographic Area	Recharge From Precipitation (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	Ground Water Evapotranspiration (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
189	Thousand Springs V.						
	a) Herrill Siding Brush Creek Area	2,000	0		> 700	700	189B
	b) Toano-Rock Spring Area	5,000	700	189A	009	000'6 <	189C
	c) Rocky Butte Area	1,300	000′6 <	189B	> 400	000'6 <	189D
	d) Montello – Crittenden Creek Area (Montello V.)	4,000	000′6 <	189C	4,000	1,800	Utah
190	Grouse Creek V.	700	0		0	< 700	Utah
191	Pilot Creek V.	2,400	1,000	187	4,600	300	192
192	Great Salt Lake Desert	4,800	11,000	186A,186B,187, 191,193	4,700	11,400	Utah
193	Deep Creek V.	2,200	2,000	185	1,500	2,700	192, Utah
194	Pleasant V.	4,800	0		Minor	3,000	Utah
195	Snake V.	26,000	0		11,000	30,000	Utah
196	Hamlin V.	10,000	4,000	184	400	10,000	195, Utah
BASIN TOTAL)TAL	93,000	16,000		28,000	> 70,000	
			ESCALANTE DESERT	DESERT			
107	Ferral anto Decert	000	c		W.	0000	- - -
						1	
			COLORADO RIVER BASIN	VER BASIN			
198	Dry V.	1,300	0		10	0	
199	Rose V.	001	0		10	0	
200	Eagle V.	1,100	0		290	0	
201	Spring V.	а 10,000	0		1,000	Minor	200
202	Patterson V.	000′9	3,000	183	80	000'6	203
203	Panaca V.	1,500	000'6	202	530	Minor	205
204	Clover V.	1,700	0		210	0	
205	Lower Meadow Valley Wash	1,300	Minor	203	1,400	2,000	218
206	Kane Springs V.	200	Some	209	Minor	Minor	210

			COLORADO RIVER BASIN, continued	BASIN, continued		Tat	Table 3 — Page 10 of 10
207	White River V.	38,000	39,000	174,180	37,000	40,000	208
208	Pahroc V.	2,200	40,000	207	0	42,000	209
209	Pahranagat V.	1,800	28,000	171,182,208	20,000	35,000	210
210	Coyote Spring V.	1,900	>35,000	206,209	Minor	37,000	219
211	Three Lakes V. (Southern Part)	6,000	4,700	212 165	0	10,700	161
212	Las Vegas V.	25,000	Minor	105/166	24,000	5,100	211,215
213	Colorado River V.	200	1,300	167,214	Large	200	Colorado River
214	Piute V.	1,100	0		0	1,100	Calif.
215	Black Mountains Area	< 100	400	212,218	1,200	< 100	Lake Mead
216	Garnet V.	400	400	217	0	800	218
217	Hidden V. (North)	400	0		0	400	216
218	California Wash	< 100	7,800	205,216,219	1,700	Minor	218,220
219	Muddy River Springs Area (Upper Moapa V.)	> 100	37,000	210	Some	Minor	218
220	Lower Moapa V.	> 20	Minor	218	11,000	1,100	Lake Mead
221	Tule Desert	2,100	0		Minor	2,100	222
222	Virgin River V.	3,600	3,000	221, Ariz.	30,000	40,000	Lake Mead
223	Gold Butte Area	1,000	0		Minor	1,000	Lake Mead
224	Grease Wood Basin	009	0		Minor	009	Arizona
BASIN TOTAL	ОТАL	a 110,000	20,000		> 130,000	55,000	
			DEATH VALLEY BASIN	EY BASIN	in the second		
i c		ć			(
977	Mercury V.	750	15,000	160	0 (17,000	230
722	Forty Mile Canyon	00	000,	F/77,001	D.	000,71	720
	a) Jackass Flats	006	7,200	2278	0	8,100	230
	b) Buckboard Mesa	1,400	5,800	147,157	0	7,200	227A
228	Oasis V.	1,000	2,500	147	2,000	1,500	229
229	Crater Flat	220	1,500	228	0	1,700	230
230	Amargosa Desert	009	44,000	225,226,227A,229	24,000	19,000	Death Valley
231	Grapevine Canyon	20	5005	146	Minor	400	Death Valley
232	Oriental Wash	300	0		0	300	Death Valley
BASIN TOTAL	OTAL	4,800	40,000		26,000	20,000	
STATE T	STATE TOTAL (Rounded)	a2,200,000	> 3,000	•	>1,600,000	>150,000	
		Estimated	Estimated Net Groundwater Inflow – 2,000,000	- 2,000,000	Estimated N	Estimated Net Groundwater Outflow – 2,000,000	w – 2,000,000



SURFACE WATER DATA

Explanation of Table Headings

Table 4

Runoff from Mountains

Streamflow is measured on most of the principal and some of the smaller streams in Nevada. But runoff from many thousands of small streams, which are locally and collectively important, is not measured. The term "surface water runoff" is subject to some variation in definition. Its use here refers to runoff from the mountains to the alluvial fan estimated where the two meet which represents the approximate point of maximum flow. Estimated runoff is also shown in Figure 5.

Inflow and Outflow

"Surface water inflow" is the flow of surface water in channels into a hydrographic area from another hydrographic area.

"Surface water outflow" is similar to surface water inflow, except that it is the quantity of water flowing from one hydrographic area to another. Surface water inflow and outflow is also shown in Figure 5.

"Surface water evaporation" applies to water lost by evaporation from streams as well as from lakes and reservoirs.

Surface water flows are based on varying periods of record.

Region, Basin and State Totals

Surface water inflow and outflow for each basin, region and the state are not the sum of the individual areas, because quantities of water circulate between hydrographic areas within regions, basins and the state and therefore are included for more than one area. All other water quantities in Table 4 are additive.

VARIATIONS IN STREAMFLOW

The water we use has its origin in precipitation. which is part of the hydrologic cycle. In simplest terms, the cycle may be considered to start with the water in the oceans which evaporates from the ocean

surface. The vapor is carried inland where some of it condenses and falls as precipitation. A part of the precipitation is retained temporarily on vegatation, in surface depressions or in the soil, and eventually returns to the atmosphere by evaporation and transpiration. The rest flows overland and down the channel of surface streams or infiltrates into the soil.

Some of the water that goes into the soil percolates downward to recharge the ground water, but much of it moves laterally to springs, rivers and lakes. This water is subject to evaporation and transpiration throughout its travels.

It's important to note that the foregoing is an oversimplification. All phases of the hydrologic cycle occur simultaneously. And even though the sea is a primary source some vapor in the air can originate in inland water sources. Also, note that surface water runoff can be flood runoff from snowmelt or thundershowers, or baseflow from springs and seepage from areas of high water table. Finally it should be stressed that the quantities in any part of the cycle vary through wide limits throughout time and space. Streamflow, for instance, is extremely variable in terms of time, changing from minute to minute and from year to year.

Large variations in average streamflow can be shown merely by changing the period of record used to compute the average. For this reason one should be careful in comparing figures shown in this report with other values. This is particularly true for the major rivers such as the Colorado, Truckee, Carson, Humboldt, Virgin and Walker.

This discussion concerns itself mainly with the long-term, or year to year variations.

The average seasonal pattern of streamflow for various streams and in different areas is shown in Figure 1. But keep in mind that because the pattern varies so widely, this average provides only a rough indication of the amount of flow or precipitation to be expected in any given year.

Figure 2 shows the variations in streamflow from year to year for ten selected streams for the period of continuous flow record. The flow may be above or below average in any given year or in several successive years; long-term trends in streamflow commonly are hard to establish because of man-made changes in the environment.

However, Figure 2 shows the past trends as a \(\frac{1}{8}\)

cumulative departure from average stream flow. An upward slope on the line over a period of years indicates a wet period; conversely, a downward slope indicates a dry period.

Springs

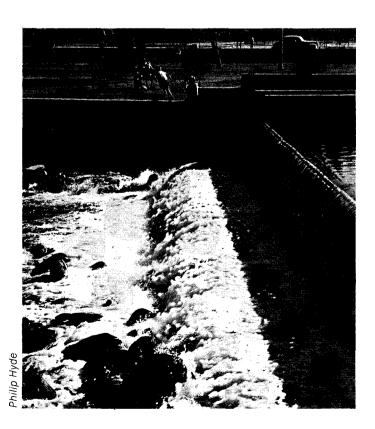
Table 5 is a list of 85 of the larger and better known spring of Nevada. Their locations are shown in Figure 4.

Reservoirs and Lakes

Table 6 contains data on the surface area and capacity of the principal reservoirs and lakes of Nevada.

Major Man-made Diversions Across Hydrographic Boundaries

Table 7 shows major man-made diversion across hydrographic boundaries. The type of source, the hydrographic areas involved, the estimated amount diverted in 1970 and the primary use are delineated. This information is also incorporated in Figure 5.



			NORTHWEST REGION	T REGION			Table 4 – Page 1 of 11
		Runoff	Surface-water Inflow	ter Inflow	Surface-	Surface-water Outflow	er Outflow
Hydrographic Area Number	Hydrographic Area	From Mountains (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	water Evaporation (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
-	Pueblo V.	8,000	Some	2	Minor	0	,
2	Continental Lake V.	4,400	Some	Oregon, 3,4	750	Some	-
ю	Gridley Lake V.	8,000	0		300	Some	2
4	Virgin V.	20,000	0		Some	Some	2
2	Sage Hen V.	750	Minor	Oregon	Some	Some	Oregon
9	Guano V.	7,200	0		Some	Some	Oregon
7	Swan Lake V.	11,000	0		Large	0	
80	Massacre Lake V.	7,600	0		Some	0	
6	Long V.	17,000	0		Some	0	
10	Macy Flat	1,000	Minor	Oregon	Minor	0	
-1-	Coleman V.	1,800	0		Some	Some	Oregon
12	Mosquito V.	1,200	0		Some	0	
13	Warner V.	3,100	Some	Oregon		Some	Calíf., Oregon
14	Surprise V.	8,400	Some	16	Some	Some	Calif.
15	Boulder V.	4,600	0		Some	0	
16	Duck Lake V.	18,000	Some	Calif.		Some	14
REGION TOTAL	rotal	140,000	Some	Oregon, Calif.	Some	Some	
			BLACK ROCK DESERT REGION	SERT REGION			
17	Pilgrim Flat	200	0			0	
18	Painters Flat	1,900	0			Some	Calif.
19	Dry V.	300	0			0	
20	Sano V.	80	0			0	

			BLACK ROCK DESERT REGION, continued	REGION, continued		Ľ	Table 4 - Page 2 of 11
21	Smoke Creek Desert	20,000	Some	22, Calif.		0	
22	San Emidio Desert	2,900	0			Some	21,28
23	Granite Basin	1,100	0		0	Minor	28
24	Hualapai Flat	5,300	0			0	-
25	High Rock Lake V.	28,000	0		3,000	0	
56	Mud Meadow	24,000	0		Minor	Some	28
27	Summit Lake V.	4,500	0		1,800	0	
28	Black Rock Desert	28,000	Some	22,23,26,29	Some	0	
29	Pine Forest V.	18,000	1,000	30,31		200	28
30	Kings River V.						
	a) Rio King Sub Area	16,000	2,000	33		1,000	_S
	b) Sod House Sub Area	100					
31	Desert V.	7,000			Some		
32	Silver State V.	2,600	0			Minor	30,31
33	Quinn River V.		1,000	Oregon		2,000	30,31
	a) Orovada Sub Area	33,000	17,000	33b			
	b) McDermitt Sub Area	51,000				17,000	33a
REGION TOTAL	TOTAL	250,000	1,000	Oregon, Calif.	> 5,000	Minor	Calif.
			SNAKE RIVER BASIN	R BASIN			
34	Little Owyhee River Area	17,000	0		Some	000'9	Idaho
32	South Fork Owyhee	770000	Some	36	Some	100,000	ldaho
36	Independence V.	\	0			Some	35
37	Owyhee River Area	120,000	Some	Idaho	Some	000'06	Idaho
38	Bruneau River Area	110,000	0		Some	000'96	Idaho
39	Jarbidge River Area	000'86	0		Some	000'86	Idaho
40	Salmon Falls Creek Area	140,000	10,000	Idaho	Some	000'86	Idaho
41	Goose Creek Area	52,000	7,000	Idaho	Some	30,000	Utah
BASIN TOTAL	OTAL	000'089	> 17,000	Idaho	Some	510,000	Idaho, Utah
			HIMPOLITE BASIN	AE BACIN			
42	Marys River Area		0		Some		·
						X	*

			-	HUMBOLDT RIVER BASIN, continued	RASIN, continued			Ta	Table 4 — Page 3 of 11
		Ä	Runoff	Surface-w	Surface-water Inflow	Surface-		Surface-wa	Surface-water Outflow
Hydrographic Area Number	Hydrographic Area	Mou (ac.	From Mountains (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	water Evaporation (ac. ft./yr.)	4 m	Acre Feet Per Year	To Hydrographic Area
43	Starr Valley Area	300,	300,000	<i>د</i> .	42	Some		141,000	> 45,49
44	North Fork Area	_		> 50,000	42,43	Some			
45	Lamoille V.			~	42,43,44	Some	1		1
46	South Fork Area	, ,		0		Some		43,000	48
47	Huntington V.	, - -	150,000	0		Some		25,000	48
48	Dixie Creek Tenmile Creek Area			000'89	46,47	Some		78,000	49
49	Elko Segment	,		> 218,000	42,43,44,48,50,51	Some			
50	Susie Creek Area	__ - - -	28,000			Some	_^	20,000	49,53,54,61
51	Maggie Creek Area		-			Some			
52	Marys Creek Area					Some			-
53	Pine V.	31,	31,000	0		Minor		9,400	54,61
54	Crescent V.	10,	10,000	9,250	53,55	Minor			
52	Carico Lake V.	'n	3,500	0		Minor		250	54
56	Upper Reese River V.	36,	36,000	0		Minor		3,000	58
22	Antelope V.			0		Minor	ے۸	1,000	58,59
58	Middle Reese River V.	- 15,	15,000	3,000	56	Minor		-	
69	Lower Reese River V.	8	8,000	1,000	57,58	Minor	<u>.</u> _^	5,000	≥ 61,64
09	Whirlwind V.	, ·	1,000			Minor	<u></u>		
61	Boulder Flat	11,	11,000	21,000	62,63	Minor		208,000	64
62	Rock Creek V.	, 50,	50,000	Some	63	Some		21,000	
63	Willow Creek V.			0		Some	1		
64	Clovers Area			208,000	61	Some			
65	Pumpernickel V.		22,000			Some		175,000	07 <
99	Kelly Creek Area					Minor		•	
. 67	Little Humbolt V.	25,	25,000	0		Minor		17,000	69
89	Hardscrabble Area	24,	24,000	0		Minor		22,000	69
69	Paradise V.	30,	30,000	39,000	89'29	1,000		2,000	70
70	Winnemucca Segment	æ	8,500	175,000	65,66,71	2,000		155,000	72
71	Grass V.	12,	12,000			Minor		Minor	70
72	Imlay Area	Ö,	3,200	155,000	70	32,000		124,000	73
									-

HUMBOLDT RIVER BASIN, continued 13 124,000 12 13 13 14 14 15 15 15 15 15 15								
100 100				HUMBOLDT RIVER	BASIN, continued		Ĕ	Table 4 — Page 4 of 11
brite Plains 3,000 radys Hot Springs Area 770,000 radys Hot Springs Area 110 ranite Springs V. 610 umiva V. 610 AL1 2,700 innemucca Lake V. 6,400 odge Flat 200 arm Springs V. 1,800 arm Springs V. 1,500 an V. 1,500 an V. 22,000 leasant V. 23,000 ake Tahoe Basin² 35,000 ruckee Canyon Segment 31,000		Lovelock V.		124,000	72	Large	Some	74
innemucca Lake V. 2,900 innemucca Lake V. 2,9		a) Oreana Sub Area	3,000					
radys Hot Springs Area 110 200 110 200 110 200 1100 200 1100 200 1100 200 1100 200 2		White Plains		Some	73	Minor	Minor	101
ey Area 1 200 all V. ite Springs V. 610 ite Springs V. 610 ite Springs V. 6400 ite Lake V. 2,900 ite Lake V. 2,900 ite Springs V. 1,800 ish Springs V. 1,500	BASIN TOTA		770,000	0		Large	Minor	101
ey Area 1 1.00				MEST CENTR	NOIDER IN			
ey Area 100				WEST CENTER	AL NEGICIA			
ey Area ¹ all V. te Springs V. emucca Lake V. e Flat Springs V. to Springs		Bradys Hot Springs Area	110		76,77	4,000	Some	92
emucca Lake V. 5,700 emucca Lake V. 5,200 ind Lake V. 6,400 e Flat 200 sh Springs V. 1,800 ish Springs V. 1,500 ish Springs V.		Fernley Area ¹	200	235,0001	83	008'9	184,0001	75,101
te Springs V. 610 emucca Lake V. 2,700 mid Lake V. 6,400 e Flat 200 s Segment 1,800 s Springs V. 1,500 ish Springs V. 1,500 cee Meadows 22,000 ant V. 23,000 Tahoe Basin 2 35,000 kee Canyon Segment 31,000		Fireball V.	160	0		Minor	Some	75
emucca Lake V. 2,900 mid Lake V. 2,900 rid Lake V. 6,400 e Flat 200 f Segment 1,800 ish Springs V. 1,500 ish Springs V. 1,500 ant V. 23,000 Tahoe Basin 2 Tahoe Basin 31,000 kee Canyon Segment 31,000		Granite Springs V.	1,800	0		Minor	0	
emucca Lake V. 2,900 nid Lake V. 6,400 e Flat 200 s Segment 1,800 s Springs V. 1,500 ish Springs V. 1,500 ish Springs V. 100 cee Meadows 22,000 ant V. 23,000 Tahoe Basin 2 35,000 kee Canyon Segment 31,000		Kumiva V.	610	0		Minor	0	!
Winnemucca Lake V. 2,900 Pyramid Lake V. 6,400 Dodge Flat 200 Tracy Segment 1,800 Warm Springs V. 14,000 Spanish Springs V. 100 Truckee Meadows 22,000 Pleasant V. 22,000 Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000	REGION TOT	-AL1	2,700	235,0001	83	11,000	180,0001	101
Winnemucca Lake V. 2,900 Pyramid Lake V. 6,400 Dodge Flat 200 Tracy Segment 1,800 Warm Springs V. 14,000 Spanish Springs V. 1,500 Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin ² 35,000 Truckee Canyon Segment 31,000				TRUCKEE RIV	VER BASIN			
Winnemucca Lake V. 2,900 Mis Pyramid Lake V. 6,400 Mis Dodge Flat 200 1,800 Warm Springs V. 14,000 1,500 Spanish Springs V. 1,500 1,500 Sun V. 100 100 Truckee Meadows 22,000 9,000 Pleasant V. 9,000 9,000 Washoe V. 23,000 Lake Tahoe Basin ² 35,000 Truckee Canyon Segment 31,000								
Pyramid Lake V. 6,400 Dodge Flat 200 Tracy Segment 1,800 Warm Springs V. 14,000 Spanish Springs V. 1,500 Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin Z 35,000 Truckee Canyon Segment 31,000		Winnemucca Lake V.	2,900	Minor	81	Minor	0	
Dodge Flat 200 Tracy Segment 1,800 Warm Springs V. 14,000 Spanish Springs V. 1,500 Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin Z 35,000 Truckee Canyon Segment 31,000		Pyramid Lake V.	6,400	250,000	82,84	470,000	Minor	80
Tracy Segment 1,800 Warm Springs V. 14,000 Spanish Springs V. 1,500 Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000		Dodge Flat	200	245,000	83	Minor	250,000	81
Warm Springs V. 14,000 Spanish Springs V. 1,500 Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin Z 35,000 Truckee Canyon Segment 31,000		Tracy Segment	1,800	480,000	87	Minor	480,0001	76,82
Spanish Springs V. 1,500 Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000		Warm Springs V.	14,000	0		Minor	70	81
Sun V. 100 Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000		Spanish Springs V.	1,500	16,000 ¹	87	Minor	000'6	87
Truckee Meadows 22,000 Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000		Sun V.	100	0		0	20	87
Pleasant V. 9,000 Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000 53		Truckee Meadows	22,000	547,0001	85,86,88,91	Minor	497,0001	83,85,86,92
Washoe V. 23,000 Lake Tahoe Basin 2 35,000 Truckee Canyon Segment 31,000 53		Pleasant V.	000'6	1,000	68	Minor	10,0001	82,89
Lake Tahoe Basin ² 35,000 E		Washoe V.	23,000	4,0001	06'88	14,000	2,3001	88,103,104
Truckee Canyon Segment 31,000		Lake Tahoe Basin ²	35,000	10,000	Calif.	100,000	3,3001	89,105
		Truckee Canyon Segment	31,000	520,000	Calif.	Minor	530,0001	87
BASIN TOTAL 520,000 520,000	BASIN TOTA	Τ'	140,000	520,000	Calif.	580,000	235,0001	

¹Includes exports and imports by man-made diversions

 $^{\mbox{2}}\mbox{These}$ figures are preliminary and subject to revision

2 C	Area	Acre Feet Hydro Per Year A 0 0 0 0 0 0 Minor Calif.	From From Hydrographic Area Calif. Calif.	Surface- water Evaporation (ac. ft./yr.) Minor Minor Minor Large Minor Large Some	Acre Feet Per Year 0 0 70 4,000 1,000	Surface-water Outflow To Feet Hydrographic 0 Area 0 0 70 99 4,000 Calif. 0 0 0 0 0 0 0 0 860 Calif.
Hydrographic Area From Mountains (ac. ft./yr.) Lemmon V. a) Western Part a) Western Part 600 Antelope V. 3,000 Bedell Flat 3,000 Dry V. 400 Honey Lake V. 3,700 Skedaddle Creek V. 860 Red Rock V. 1,400 TOTAL 25,000 Carson Desert 25,000 Carson V. 1,400 Eagle V. 13,000 Carson V. 24,000 OTAL 43,000	Area	Acre Feet Per Year 0 0 0 0 Minor 0 Minor	Hydrographic Area Calif.	water Evaporation (ac. ft./yr.) Minor Minor Minor Large Minor Large	Acre Feet Per Year 0 0 70 4,000 0 860 1,000	Hydrographic Area Calif. Calif.
a) Western Part b) Eastern Part ntelope V. adeli Flat ry V. ewcomb Lake V. adaddle Creek V.	3 3 2 25		Calif. 94 Calif.		0 0 70 4,000 0 860 1,000	99 Calif.
a) Western Part b) Eastern Part ntelope V. adel! Flat rv V. ewcomb Lake V. ewcomb Lake V. addile Creek V. addi	25 1		Calif.		0 0 70 4,000 0 0 860 1,000	99 Calif. Calif.
b) Eastern Part ntelope V. adeli Flat ry V. ewcomb Lake V. avcomb Lake V. sedaddle Creek V. ad Rock V. al A00 1,400 AL 25,000 AL arson Desert 3,300 11,400 1,400	3 7 25		Calif. 94 Calif.		0 70 4,000 0 860 1,000	99 Calif. Calif.
edell Flat 3,000 ry V. 7,500 ewcomb Lake V. 400 oney Lake V. 3,700 ed addle Creek V. 2,600 old Spring V. 1,400 arson Desert 3,300 avton V. 1,400 ayton V. 13,000 arson V. 24,000	3 7 2 25		Calif. 94 Calif.		0 70 4,000 0 860 1,000	99 Calif. Calif.
adeli Flat ry V. ewcomb Lake V. oney Lake V. sedaddle Creek V. ed Rock V. al Spring V. luke Soon 1,400 AL 25,000 1,400 1,400 ayton V. 1,400			Calif. 94 Calif.	İ	70 4,000 0 860 1,000	99 Calif. Calif.
ry V. ewcomb Lake V. oney Lake V. sedaddle Creek V. ed Rock V. old Spring V. l. 400 arson Desert ayton V. 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 13,000 24,000 43,000			Calif. 94 Calif.		4,000 0 0 860 1,000	Calif. Calif.
ewcomb Lake V. 3,700 oney Lake V. 3,700 ed addle Creek V. 2,600 old Spring V. 1,400 arson Desert 3,300 ayton V. 13,000 arson V. 24,000 43,000	3 25 25		Calif. 94 Calif.		0 0 860 1,000	Calif.
oney Lake V. 3,700 ed addle Creek V. 860 ed Bock V. 1,400 old Spring V. 1,400 arson Desert 3,300 ayton V. 1,400 ayton V. 1,400 arson V. 13,000 43,000	5	[]	Calif. 94 Calif.		0 860 1,000	Calif.
edaddle Creek V. 860 ed Rock V. 2,600 old Spring V. 1,400 AL 25,000 hurchill V. 900 ayton V. 13,000 arson V. 24,000 43,000		1.1	94 Calif.		1,000	Calif.
ed Rock V. 2,600 1,400 1,400 AL 25,000 arson Desert 3,300 ayton V. 1,400 arson V. 13,000 43,000	N	1.1	94 Calif.	Minor Large Some	1,000	
arson Desert 3,300 1,400 15,000 10,00	2		Calif.	Large	0	Calif.
arson Desert 3,300 ayton V. 1,400 agle V. 24,000 arson V. 43,000	25,000	Minor	Calif.	Some		
arson Desert 3,300 hurchill V. 900 ayton V. 1,400 agle V. 13,000 arson V. 24,000				-	000'9	Calif.
ayton Desert 3,300 hurchill V. 900 ayton V. 1,400 agle V. 13,000 arson V. 24,000		CARSON RIVER BASIN ²	R BASIN ²			
ayton V. 1,400 agle V. 13,000 arson V. 24,000		> 370,000	102,74,76	Large	170,0001	102
ayton V. 1,400 13,000 arson V. 24,000 43,000		422,0001	101,103,108	Large	370,0001	101
arson V. 13,000 24,000 43,000	1,400	274,500	104,105	Some	251,000	102
arson V. 24,000 43,000	13,000	0		Some	6,500	103
43,000	24,000	> 320,000	Calif., 90	Large	268,000	103
	43,000	> 320,000	Calif., 74	Large	0	
			1410			
		WALNER RIV	ER BASIIV			
106 Antelope V. 750		> 190,000	Calif.	970	150,000	107
107 Smith V. 8,600	8,600	150,000	106		119,000	108
108 Mason V. 5,900	2,900	216,000	107,109	Some	108,000	101,110
109 East Walker Area 9,700		> 100,000	Calif.	Some	000′26	108

¹Includes exports and imports by man-made diversions

 $^{^2\!\}mathsf{These}$ figures are preliminary and subject to revision

110 Weaker Lake V. 1,000 1,004, 1106 1,004, 1106 220,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 1,004, 1106 2,000 2,0								
100 Schure 100 Sch				WALKER RIVER E	3ASIN, continued		L	Table 4 - Page 6 of 11
107,000 108 100,000	110	Walker Lake V.					0	
December Participation Pacific Pacific		a) Schurz Sub Area	1	107,000	108	4,000	85,000	110B
Hand-Nicotine State Nation 10,000 5 720,000 Califf 5 720,000 1,000 101		b) Lake Sub Area	4,700	85,000	110A, 110C	220,000	0	
Real IV.		10,000	0			Minor	110B	
Aixeal V. a Northern Part 700 0 Minnor Calif. Some Calif. Calif	BASIN TO	ЭТАL	60,000		Calif.	1 1	1,000	101
Alkali V. Ninor Ninor Calif. b) Sourcer Part 3200 0 Minor Calif. b) Sourcer Part 3200 0 Minor Calif. Mono V. 1,600 Some Calif. Minor Calif. Monor V. 1,600 Some Calif. Some Calif. Adaba V. 3200 Some Calif. Some Calif. Adaba V. 4200 Some 117 Some 118 Columbic Sati Mast V. 1,000 Some 117 Some 118 Columbic Sati Mast V. 1,000 Some 117 Some 118 Columbic Sati Mast V. 1,000 Some 117 Some 118 Columbic Sati Mast V. 1,000 0 Some 0 118 Sate Saming V. 1,000 0 Some 0 0 Garbert Flat Monor Some 125 0 Estation Part 1,000								
Alkeil V. Alkeil V. Minor Some Calif. b) Southen Part 3,200 0 Minor Calif. box over V. 1,600 Some 0 Minor Calif. Hunnoon V. 1,600 Some 0 Minor 0 Teels Marsh V. 500 0 0 Minor Calif. Adobe V. 1,200 Some 0 Minor Calif. Columbus Salt Marsh V. 2,000 Some 117 Some 0 Columbus Salt Marsh V. 1,300 Some 117 Some 0 Columbus Salt Marsh V. 1,300 Some 117 Some 0 Columbus Salt Marsh V. 1,300 Some 117 Some 0 Garried Flat 1,000 0 0 Some 0 0 Sodebty V. 1,000 0 0 1,25 Minor 0 0 East Gate Viley A. 2,000 Some 1,25				CENTRAL	REGION			
b) Sourhern Part 200		Alkali V.				Minor		
b) Southern Part 3,200 0 Amor Some Calif. Minor Calif. Minor Calif. Minor Calif. Calif. <td></td> <td>a) Northern Part</td> <td>700</td> <td>0</td> <td></td> <td></td> <td>0</td> <td></td>		a) Northern Part	700	0			0	
Mono V. 1,400 Some Calif. Minor Calif. Teth Lake V. 1,600 Some Calif. Minor Calif. Adobe V. 500 0 Minor Calif. Some 118 Adobe V. 4,200 5 12,000 Calif. Some 118 Calif. Fish Lake V. 1,300 Some 117 Some 118 Columbus Sat Marsh V. 1,300 Some 117 Some 118 Ghoders Sat Marsh V. 1,300 0 Some 118 Calif. Ghoders Sat Marsh V. 1,300 0 Some 118 118 Garfield Flat 80 0 Some 0 Calif. Sod Springs V. 1,600 0 Some 0 118 All Adobe V. 1,000 0 Some 0 125 Singare V. 30 Some 125 Some 125 Dixia V. 1,400 Some <t< td=""><td></td><td>b) Southern Part</td><td>3,200</td><td>0</td><td></td><td></td><td>Some</td><td></td></t<>		b) Southern Part	3,200	0			Some	
Huntoon V. 1,600 Some Calif. Minor 0 Addbe V. 500 0 0 Minor < 500	112	Mono V.	1,400	0		0	Minor	
Teels Marsh V. 3.200 0 Some 0 Adobe V. 500 0 Minor < 500	113	Huntoon V.	1,600	Some	Calif.	Minor	0	
Adobe V. 500 0 Minor < 500 Gueen V. 4,200 > 12,000 Calif. Some < 500	114	Teels Marsh V.	3,200	0		Some	0	
Clumbus Salt Marsh V. 4,200 0 Minor 900 Fish Lake V. 10,000 Some 117 Some 0 Columbus Salt Marsh V. 2,000 Some 117 Some 0 Rodariald Flat 800 0 1 Some 0 0 Sodariald Flats 1,500 0 0 Some Some 0 b) Western Part 400 0 0 Some Some 0 b) Western Part 400 0 0 Some Some 0 c) Buttern Part 400 0 0 Some 0 0 Cadbs V. 1,000 0 0 Minor 0 0 0 Singare V. 30 Some 125 Minor Some 0 East Gate Valley Area 2,200 Some 125,130,132 Some 0 Burling V. 3000 5,600 125,130,132 Some 0	115	Adobe V.	200	0		Minor		Calif.
Fish Lake V. 10,000 > 12,000 Calif. Some Some Columbus Salt Marsh V. 2,000 Some 117 Some 0 Garfield Flat 800 0 17 Some 0 Soda Springs V. 1,600 0 Some 0 a) Eastern Part 1,600 0 Some Some b) Western Part 1,000 0 Some Some c) Gabbs V. 1,000 0 Minor 0 Bawhide Flats Minor Minor Some Stingare V. 2,000 Some 127 Minor Some Stingare V. 2,000 Some 127 Minor Some Dixie V. 2,000 Some 125,130,132 Some 0 Dixie V. 1,000 Some 125,130,132 Some 0 Buffalo V. 2,000 Some Some 0 Buffalo V. 9,000 0 125,130,132 Some <td>116</td> <td>Queen V.</td> <td>4,200</td> <td>0</td> <td></td> <td>Minor</td> <td></td> <td>Calif.</td>	116	Queen V.	4,200	0		Minor		Calif.
Columbus Satit Marsh V. 2,000 Some 117 Some 0 Garfield Flat 800 0 0 Some 0 Soda Springs V. 1,600 0 0 Some 0 b) Wastern Part 1,600 0 0 Some 0 b) Wastern Part 1,000 0 Some Some 0 Faivhide Flats Minor Ninor 0 Ninor 0 Fairhaw V. 30 Some 127 Minor Some Stingare V. 2,200 Some 127 Minor Some Dixie V. 2,300 Some 125,130,132 Some 0 Buffalo V. 1,400 0 125,130,132 Some 0 Buffalo V. 9,000 0 125,130,132 Some 0 Buffalo V. 9,000 0 125,130,132 Some 0 Buffalo V. 9,000 0 125,130,132 Some 0	117	Fish Lake V.	10,000		Calif.	Some	Some	118
Hhodes Salt Marsh V. 1,300 0 Some 0 Garfield Flat 800 0 Some 0 Soda Springs V. a) Eastern Part 1,600 0 Some 0 b) Western Part 1,000 0 Some Some 0 Gabbs V. 1,000 0 Minor Minor 0 Fairview V. 100 Some Minor 0 Stingaree V. 30 Some Minor Some Cowkick V. 200 Some Minor Some East Gate Valley Area 2,200 Some Some 0 Dixie V. 2,300 5,600 125,130,132 Some 0 Buffalo V. 9,000 5,600 125,130,132 Some 0 Buffalo V. 2,000 5,600 125,130,132 Some 0 Buffalo V. 9,000 0 125,130,132 Some 0 Gward 0 0 0 0	118	Columbus Salt Marsh V.	2,000	Some	117	Some	0	
Garfield Flat 800 0 Some 0 Soda Springs V. 1,600 0 Some 0 b) Western Part 1,000 0 Some 0 b) Western Part 1,000 0 Some 0 Gabbs V. 1,000 0 Some 0 Rawhide Flats Minor Minor 0 Stingare V. 30 Some Minor Some Cowkick V. 200 Some Some Some Dixie V. 2,300 Some Some 0 Buffalo V. 1,400 0 125,130,132 Some 0 Buffalo V. 9,000 0 125,130,132 Some 0 Edwards Creek V. 4,700 0 Some 0	119	Rhodes Salt Marsh V.	1,300	0		Some	0	
Soda Springs V. 1,600 0 Some 0 b) Western Part 400 0 Some 0 b) Western Part 1,000 0 Some 0 Gabbs V. 1,000 0 Minor 0 Fairview V. 30 Some 126 Minor 0 Stingare V. 200 Some 127 Minor Some Cowkick V. 2,200 Some 127 Minor Some Dixie V. 2,300 5,600 125,130,132 Some 0 Burna Vista V. 1,400 0 Minor Some 0 Burffalo V. 200 2,300 5,600 125,130,132 Some 0 Burna Vista V. 1,400 0 Minor Some 0 Burna Vista V. 1,400 0 Some 0 Burna Vista V. 200 0 Some 0 Burna V. 200 0 Some 0	120	Garfield Flat	800	0		Some	0	
b) Western Part 1,600 0 Some 0 b) Western Part 400 0 Some 0 Gabbs V. 1,000 0 Some 0 Rawhide Flats Minor 0 Minor 0 Fairview V. 30 Some 126 Minor 0 Stringaree V. 30 Some 127 Minor Some Cowkick V. 200 Some 127 Minor Some Dixie V. 2,300 5,600 125,130,132 Some 0 Dixie V. 10,000 5,600 125,130,132 Some 0 Buthalo V. 9,000 0 125,130,132 Some 0 Buthalo V. 9,000 0 125,130,132 Some 0 Buthalo V. 9,000 0 0 0 0 Edwards Creek V. 4,700 0 0 0 0	121	Soda Springs V.						
b) Western Part 400 0 Some 0 Gabbs V. 1,000 0 Some 0 Rawhide Flats Minor 0 Minor 0 Fairview V. 100 Some 126 Minor 0 Stingaree V. 30 Some 127 Minor Some Cowkick V. 2,200 Some 127 Minor Some Dixie V. 2,300 5,600 125,130,132 Some 0 Buffalo V. 1,400 0 Minor Some 0 Buffalo V. 9,000 0 Some 0 Jersey V. 200 Minor Some 0 Edwards Creek V. 4,700 0 Minor Some		a) Eastern Part	1,600	0		Some	0	
Gabbs V. J,000 0 Some Some 0 Fairview V. 100 Some 126 Minor 0 Stingaree V. 30 Some 126 Minor Some Cowkick V. 2,200 Some 127 Minor Some Dixie V. 2,300 > 5,600 125,130,132 Some 0 Buena Vista V. 1,400 0 Minor Some 0 Buffalo V. 9,000 0 Some Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 Minor Some		b) Western Part	400	0		Some	0	
Rawhide Flats Minor 0 Minor 0 Fairview V. 30 Some 126 Minor 5,600 Stringaree V. 200 Some 127 Minor Some Cowkick V. 2,200 0 125,130,132 Some Some Dixie V. 2,300 > 5,600 125,130,132 Some 0 Buena Vista V. 1,400 0 Minor Some 0 Buffalo V. 9,000 0 Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 Minor Some	122	Gabbs V.	1,000	0		Some	0	
Fairview V. 100 0 Minor 0 Stingaree V. 30 Some 126 Minor 5,600 Cowkick V. 2,200 Some Minor Some Dixie V. 2,300 5,600 125,130,132 Some 0 Buena Vista V. 10,000 0 Minor Some 0 Pleasant V. 1,400 0 Some 0 Buffalo V. 9,000 0 Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 Minor Some	123	Rawhide Flats	Minor	0		Minor	0	
Stingaree V. 30 Some 126 Minor 5,600 Cowkick V. 200 Some 127 Minor Some East Gate Valley Area 2,200 0 Minor Some 0 Dixie V. 10,000 0 125,130,132 Some 0 Buena Vista V. 1,400 0 Minor Some 0 Buffalo V. 9,000 0 Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 0 Minor Some	124	Fairview V.	100	0		Minor		
Cowkick V. 200 Some 127 Minor Some East Gate Valley Area 2,200 0 125,130,132 Some 0 Dixie V. 2,300 0 125,130,132 Some 0 Buena Vista V. 1,400 0 Minor Some 0 Buffalo V. 200 0 Minor Some 0 Jersey V. 200 0 Minor Some 0 Edwards Creek V. 4,700 0 0 Minor Some 0	125	Stingaree V.	30	Ѕоте	126	Minor		128
East Gate Valley Area 2,200 0 Minor Some Dixie V. 2,300 > 5,600 125,130,132 Some 0 Buena Vista V. 1,400 0 Minor Some 0 Pleasant V. 9,000 0 Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 Some 0	126	Cowkick V.	200	Some	127	Minor	Some	125
Dixie V. 2,300 > 5,600 125,130,132 Some 0 Buena Vista V. 10,000 0 Minor Some Pleasant V. 9,000 0 Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 0 0	127	East Gate Valley Area	2,200	0		Minor	Some	126
Buena Vista V. 10,000 0 Minor Some Pleasant V. 9,000 0 Some 0 Buffalo V. 200 0 Minor Some 0 Jersey V. Edwards Creek V. 4,700 0 Some 0	128	Dixie V.	2,300		125,130,132	Some	0	
Pleasant V. 1,400 0 Minor Some Buffalo V. 9,000 0 Minor 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 0 0	129	Buena Vista V.	10,000	0			0	
Buffalo V. 9,000 0 Some 0 Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 0 0	130	Pleasant V.	1,400	0		Minor	Some	128
Jersey V. 200 0 Minor Some Edwards Creek V. 4,700 0 0 0	131	Buffalo V.	000'6	0		Some	0	
Edwards Creek V. 4,700 0	132	Jersey V.	200	0		Minor	Some	128
	133	Edwards Creek V.	4,700	0			0	

;		Runoff	Surface-water Inflow	ter Inflow	Surface-	Surface-water Outflow	er Outflow
Hydrographic Area Number	Hydrographic Area	From Mountains (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	water Evaporation (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
134	Smith Creek V.	8,800	0			0	
135	tone V.	5,200	0			300	137,A
136	Monte Cristo V.	1,700	0		0	0	
137	Big Smoky V.					_	
	a) Tonopah Flat	5,000	300	135		0	
	b) Northern Part	38,000	0		Minor	0	
138	Grass V.	000'6	0		0	0	
139	Kobeh V.	8,000	Some	140A,151		Minor	153
140	Monitor V.						
	a) Northern Part	23,000	Some	1408		Some	139
	b) Southern Part	44,000	0			Some	140A
141	Raiston V.	10,000	Some	149	Minor	0	
142	Alkali Spring V. (Esmeralda)	400	0		Some	0	
143	Clayton V.	3,500	0		Large	0	
144	Lida V.	1,600	Some	145	0	Some	146
145	Stonewall Flat	400	0		Minor	Some	144
146	Sarcobatus Flat	1,100	Some	144	Minor	0	
147,	Gold Flat	1,100	0		Minor	0	
148	Cactus Flat	1,200	0		Minor	0	
149	Stone Cabin V.	002'6	0			Some	141
150	Little Fish Lake V.	18,000	0		Some	0	
151	Antelope V. (Eureka & Nye)	14,000	0			Some	139
152	Stevens Basin	200	0		Minor	0	
153	Diamond V.	5,800	100	139	Minor	0	
154	Newark V.	8,000	200	155A	Minor	0	
155	Little Smoky V.						
	a) Northern Part	4,000	0		0	200	154
	b) Central Part	Minor	0		Minor	0	
	c) Southern Part	1,500	0		Minor	0	
156	Hot Creek V.	8,000	0			1,000	1738
157	Kawich V.	800	0		Minor	0	

			CENTRAL REGION, continued	ON, continued		Ta	Table 4 - Page 8 of 11
158	Emigrant V.						
	a) Groom Lake V.	1,000	0		Minor	0	
	b) Papoose Lake V.	> 10	0		Minor	0	
159	Yucca Flat	150	0		Minor	0	
160	Frenchman Flat	> 20	0		Minor	0	
161	Indian Springs V.	2,200	0		Minor	0	
162	Pahrump V.	13,000	0		Minor	Some	Calif.
163	Mesquite V. (Sandy V.)	1,700	0		Minor	Minor	Calif.
164	Ivanpah V.		0			0	
	a) Northern Part	1,200	0		0	0	Calif.
	b) Southern Part	Minor	0		Minor	Minor	Calif.
165	Jean Lake V.	250	0		Minor	0	
166	Hidden Valley (South)	20	0		Minor	0	
167	Eldorado V.	< 100	0		Minor	0	
168	Three Lakes V. (Northern Part)	250	0		Minor	0	
169	Tikapoo V.	1,800					
	a) Northern Part		0		Some	Some	1698
	b) Southern Part		Some	169A	Minor	0	
170	Penoyer V. (Sand Springs V.)	1,700	0		Minor	0	
171	Coal V.	400	Some	172	Minor	0	
172	Garden V.	8,300	0		0	Some	171
173	Railroad V.						
	a) Southern Part	8,500	0		Minor	0	
	b) Northern Part	26,000	1,000	156	Minor	0	
174	Jakes V.	7,200	0		Minor	0	
175	Long V.	4,400	0		2,200	0	
176	Ruby V.	180,000	0		15,000	0	
177	Clover V.	45,000	0		2,000	Some	188
178	Butte V.						
	a) Northern Part	2,700	0		35	0	
	b) Southern Part	9,400	0		35	0	
179	Steptoe V.	78,000	0		Some	1,000	187
180	Cave V.	10,000	0		Minor	0	
181	Dry Lake V.	000'6	0		Minor	0	
182	Delamar V.		0		Minor	0	

Hotographic Area Hotographic				CENTRAL REGION, continued	ON, continued		Te	Table 4 – Page 9 of 11
Hydrographic Area Memoria From Area Hydrographic Cac. ft./fr.] Per Year Hydrographic Gac. ft./fr.] Hydrographic Gac. ft./fr.] Hydrographic Gac. ft./fr.] Hydrographic Hydr			Runoff	Surface-wa	ater Inflow	Surface-	Surface-wat	ter Outflow
National Series 19,000 0 0 0 0 0	Hydrographic Area Number		From Mountains (ac. ft./yr.)	Acre Feet Per Year	From Hydrographic Area	water Evaporation (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
Some	183	Lake V.	8,000	0		Minor	0	
Pacific Continue Co	184	Spring V.	000'06	0		Some	0	
1,000 1,79 1,000	185	Tippett V.	260	0		Minor	0	
b) Northern Part 190	186	Antelope V. (White Pine & Elko)						
December 190 Dece		a) Southern Part	40	0			0	
1,000 1,90		b) Northern Part	190	0			0	
CREAT SALT AKE BASIN Minor 0 0 0 0 0 0 0 0 0	187	Goshute V.	20,000	1,000	179		0	
Calif. Minor Some Some	188	Independence V. (Pequop V.)	35,000	Some	771	Minor	0	
Chear Salin	REGION 1	TOTAL	000,000		Calif.	Minor		Calif.
Decirio Springs V. 35,000 0 1894 5,000 1894 3,500 1894 3,500 1,200				GREAT SALT	LAKE BASIN			
Herrit Siding	189	Thousand Springs V.	35,000	0		Minor		
b) Toano-Rock Spring			8,000	0			2,000	189B
c) Rock y Butte Area 4,000 3,500 189E 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 Some			13,000	5,000	189A		3,500	189C
d) Montello—Crittenden Creek Area (Montello V.) 1,200 189C 800 Creek Area (Montello V.) 3,100 0 Some Some rouse Creek V. 740 0 Some Some lot Creek V. 1,300 Some Some Some sep Creek V. 5,000 0 Some Some easant V. 38,000 Some Minor Minor and in V. 78,000 0 Minor Some ESCALANTE DESERT Minor Minor Alloo Minor			4,000	3,500	189B		1,200	189D
rouse Creek V. 3,100 0 Some			10,000	1,200	189C		008	Utah
reat Salt Lake Desert 740 0 191 Minor Some Some Some Some 191 Minor Some Some Some Some Minor Some Minor Some Minor Some Minor Some Minor Some Some Some Minor Agenor Agenor Agenor Minor Some Agenor	190	Grouse Creek V.	3,100	0			Some	Utah
reat Salt Lake Desert 1,300 Some 191 Minor Some eep Creek V. 5,000 0 0 Some Some Some Some Minor Minor Minor Some Some Some Some Minor Some Some Minor Some Some Minor Some Minor Some Minor Some Minor Some Minor Some Minor A00 Minor A00	191	Pilot Creek V.	740	0			Some	192
Scalante Desert 5,000 0 Some 196 Some Minor Some Some A00	192	Great Sait Lake Desert	1,300	Some	191	Minor	Some	Utah
easant V. 0 0 196 Some Some Some Minor Minor Minor Minor Minor Minor Some Some scalante Desert 3,200 0 Minor Some 400	193	Deep Creek V.	5,000	0			Some	Utah
nake V. Some 196 Some < 38,000 Minor Minor Minor Minor Some 78,000 0 0 Minor Some Image: Some of the part	194	Pleasant V.		0				
amlin V. 0 Minor Minor Minor Minor Some 78,000 0 Minor Some Some Add	195	Snake V.	> 38,000	Some	196	Some		√ Utah
Scalante Desert 78,000 0 Minor Some	196	Hamlin V.		0		Minor	Minor	195
Escalante Desert 3,200 0 Minor 400	BASIN TO	TAL	78,000	0		Minor	Some	Utah
Escalante Desert 0 Minor 400				FSCAL ANTE	FDESERT			
Escalante Desert 3,200 0 Minor 400								
	197	Escalante Desert	3,200	0		Minor	400	Utah

				COLORADO AIVER BASIN	ואבוו בשפווא			
	Dry V.		400	Some	199		3,400	203
	Rose V.	٧	100	Some	200		Some	198
	Eagle V.		400	4,000	201	Minor	Some	199
	Spring V.		5,700	0		Minor	4,000	200
	Patterson V.		3,300	0			Minor	203
	Panaca V.		400	Some	198,202	Minor	Some	205
	Clover V.		40	0		Some	Some	205
	Lower Meadow Valley Wash		300	Some	203,204	Minor	400	218
	Kane Springs V.		150	0			Minor	210
	White River V.		26,000	0		Some	Some	208
	Pahroc V.	_^	1,800	Some	207		Some	209
	Pahranagat V.	<u> </u>		Some	208	5,000	Some	210
	Coyote Spring V.		1,800	Some	209		Some	219
	Three Lakes V. (Southern Part)		1,500	0		Minor	0	
	Las Vegas V.		19,000	0		Minor	(1970) 32,000	215
	Colorado River V.	Minor	lor	9,940,000	215	Large	9,400,000	Calif., Ariz.
	Piute V.	٧	100	0			Some	Calif.
	Black Mountains Area	٧	20	(1970) 32,000	212	Large	(1970) 36,000	Lake Mead
	Garnet V.		300	0		Minor	0	
	Hidden V. (North)		200	0		Minor	0	
	California Wash	٧	20	33,000	205,219	70	34,000	220
	Muddy River Springs Area (Upper Moapa V.)	٧	20	Some	210	Some	33,000	218
	Lower Moapa V.	٧	20	34,000	218	1,200	10,000	Lake Mead
-	Tule Desert		1,400	0			1,200	222
	Virgin River V.		006'9	160,000	Arizona	1,500	80,000	Lake Mead
	Gold Butte Area		006	10,000,000	Arizona	Large	Minor	Lake Mead
	Grease Wood Basin		200	0		Minor	Minor	Arizona
BASIN TOTAL	AL		70,000	>10,000,000	Arizona	>1,000,000	9,400,000	Calif., Ariz.
				DEATH VALLEY BASIN	EY BASIN			
	Mercury V.	V	10	0			Some	230
	Rock V.	٧	10	0			Ѕоте	230

			DEATH VALLEY BASIN, continued	SIN, continued		Tab	Table 4 – Page 11 of 11
		Runoff	Surface-wa	Surface-water Inflow	Surface-	Surface-war	Surface-water Outflow
Hyarographic Area Number	Hydrographic Area	From Mountains (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area	water Evaporation (ac. ft./yr.)	Acre Feet Per Year	To Hydrographic Area
722	Forty Mile Canyon	< 100					
	a) Jackass Flats		Some	227B		Some	230
	b) Buckboard Mesa		0			Some	227A
228	Oasis V.	15	0		Minor	Some	230
229	Crater Flat	> 50	0			Some	230
230	Amargosa Desert	> 20	Some	. 225,226,227A, 228,229	Minor	Some	Calif.
231	Grape Vine Canyon	200	0		Minor	20	Calif.
232	Oriental Wash	1,000	0			30	Calif.
BASIN TOTAL	TAL	1,700	0		Minor	> 20	Calif.
STATE TOTAL)TAL	3,200,000	>11,000,000		>1,800,000	>10,000,000	



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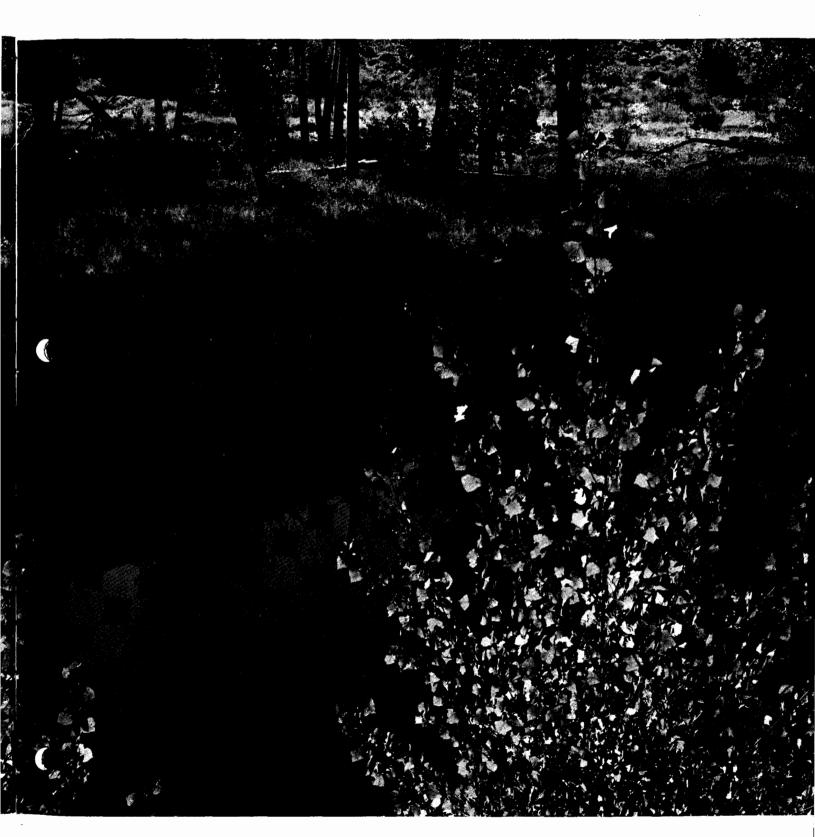


TABLE 5 — LARGER AND BETTER-KNOWN SPRINGS OF NEVADA

May No. By Inc.				CLARK COUNTY	OUNTY		Table 5 – Page 1 of 6
SEY, Sec. 1, T.18 S., R.54 E., Sec. 1, T.18 S., R.56 E., at South edge of Indian Springs. Las Vegas Springs	Map No.		Location	Discharge (gallons per minute)	Date Measured	Reference	Remarks
Indian Springs NWW sec. 16, T.16 S. R.56 E., at south edge of Indian Springs. A00 est. 3-18-46 do. Las Vegas Springs SEXSEX sec. 30 and NEXNEX. sec. 31, T.20 S., R. 61 E., at west edge of Indian Springs. 1,400 For period 1924-46 WRB 5, p. 79 Muddy River Springs SEX sec. 15, T.14 S., R. 65 E., 5 miles outh of Over ron. 22,300 For period 1913-63 Rec. 25, p. 1 Rogers Springs SEXSEX sec. 17. T.8 S., R. 67 E., 12 miles outh of Over ron. 300 For period 1912-6 WRB 5, p. 80 Tule Springs SWX sec. 9, T.18 S., R. 60 E., 12 miles outh of Over ron. Ary 1963 USGS files Walley's Hot Springs SEXSEX sec. 21, T.14 N., R. 20 E., 7 600 est. For period 1961-64 USGS files Cartin Springs Sec. 33, T.33 N., R. 52 E., 11 miles southeast of Carson City 600 est. For period 1961-64 USGS files Elko Hot Springs Sec. 33, T.33 N., R. 52 E., 11 miles southwast of Fairn. Elko Hot Springs Sec. 34, T.33 N., R. 55 E., 11 miles southwast of Enko. A500 est. For period 1961-64 USGS files	-	Cold Creek	SE% sec. 1, T.18 S., R.54 E., 15 miles southwest of Indian Springs.	069	11-09-44	WRB 5, p. 76	
Las Vegas Springs SEXSEX sec. 30 and NEXNEX sec. 31 and NEXNEX sec. 31, LAOD For period 1924-46 and WRB 5, p. 79 WRB 6, p. 79 Muddy River Springs SEX sec. 15, T.14 S., R.65 E., 5 miles northwest of Moapa. 22,300 For period 1913-63 Rec. 25, p. 1 Rogers Spring SEXSEX sec. 12, T.18 S., R.67 E., 12 miles south of Overton. 880 10.25-63 USGS files Tule Springs SWX sec. 9, T.19 S., R.60 E., 12 miles orthwest of Las Vegas. 300 For period 1922-46 WRB 5, p. 80 Malley's Hot Springs SEXSEX sec. 21, T.14 N., R.20 E., 7 600 est. For period 1922-46 WRB 5, p. 80 Malley's Hot Springs SEXSEX sec. 21, T.14 N., R.20 E., 7 600 est. For period 1961-64 USGS files Cartin Springs Sec.33, T.33 N., R.52 E., 1½ miles 2,700 est. For period 1961-64 USGS files **Cartin Springs **Southwest of Carlin.** **Southwest of Carlin.** **Southwest of Elko.** **Southw	2		NW% sec.16, T.16 S., R.56 E., at south edge of Indian Springs.	400 est.	3-18-46	do.	
4 Muddy River Springs SE // sec. 15, T.14 S., R.65 E., 5 miles dry 1963 USGS files 5 Rogers Spring SE // sec. 15, T.14 S., R.65 E., 5 miles 22,300 For period 1913-63 Rec. 25, p. 1 6 Tule Springs SWX sec. 12, T.18 S., R.67 E., 12 miles south of Overton. 300 For period 1922-46 WRB 5, p. 80 7 Walley's Hot Springs SEXSEX sec. 21, T.14 N., R.20 E., 7 600 est. For period 1961-64 USGS files 7 Walley's Hot Springs SEXSEX sec. 21, T.14 N., R.20 E., 7 600 est. For period 1961-64 USGS files 8 Carlin Springs Sec. 33, T.33 N., R.52 E., 1½ miles 2,700 est. For period 1961-64 USGS files			SE%SE% sec.30 and NE%NE% sec.31, T.20 S., R.61 E., at west edge of	1,400	For period 1924-46	WRB 5, p. 79	Combined flow in Little, Open and Big Springs
6 Tule Springs SE¼SEV, sec.15, T.14 S., R.65 E., 5 miles northwest of Moapa. 22,300 For period 1913-63 Rec. 25, p. 1 5 Rogers Spring miles south of Overtron. SE¼SEV, sec.12, T.18 S., R.67 E., 12 miles south of Overtron. 300 For period 1922-46 WRB 5, p. 80 6 Tule Springs SWX, sec.9, T.19 S., R.60 E., 12 miles northwest of Las Vegas. 4ry 1963 USGS files 7 Walley's Hot Springs SE¼SEX sec.21, T.14 N., R.20 E., 7 600 est. For period 1961-64 USGS files 8 Cartlin Springs Sec.33, T.33 N., R.52 E., 1½ miles southwest of Carson City 2,700 est. Por period 1961-64 USGS files 9 Elko Hot Spring Sec.33, T.33 N., R.55 E., 1½ miles southwest of Elko. 2,700 est. 450 est. do.			دع معروب	dry	1963	USGS files	
6 Tule Springs SE'XSE'x sec. 12, T.18 S., R.67 E., 12 miles south of Overton. 300 For period 1922-46 mRB 5, p. 80 morthwest of Las Vegas. VSGS files 7 Walley's Hot Springs SE'XSE'x sec. 21, T.14 N., R.20 E., 7 miles southeast of Carson City 600 est. For period 1961-64 morthwest of Carson City USGS files 8 Cartin Springs Sec. 33, T.33 N., R.52 E., 1½ miles southwest of Carlin. 2,700 est. For period 1961-64 more sources Division of Water Resources 9 Elko Hot Spring SE'x sec. 21, T.34 N., R.55 E., 1 mile 450 est. do. do.	4	Muddy River Springs	SE¼ sec.15, T.14S., R.65 E., 5 miles northwest of Moapa.	22,300	For period 1913-63	Rec. 25, p. 1	Several springs measured at gaging station 9-4160 Muddy River near Moapa. Some Thermal
6 Tule Springs SWX sec. 9. T.19 S., R.60 E., 12 miles northwest of Las Vegas. Ary For period 1922-46 (WRB 5, p. 80 (WRB 5	വ	Rogers Spring	., R.67 E.,	880	10-25-63	USGS files	
Availey's Hot Springs SEXSEX sec.21, T.14 N., R.20 E., 7 and 1961-64 Ary 1963 USGS files Availey's Hot Springs SEXSEX sec.21, T.14 N., R.20 E., 7 and 1961-64 600 est. For period 1961-64 USGS files B Carlin Springs Sec.33, T.33 N., R.52 E., 1½ miles 2,700 est. ELKO COUNTY B Elko Hot Spring SE½ sec.21, T.34 N., R.55 E., 1 mile 450 est. Division of water Resources do. 9 Elko Hot Spring SE½ sec.21, T.34 N., R.55 E., 1 mile 450 est. do.	9	Tule Springs	SW% sec.9, T.19 S., R.60 E., 12 miles	300	For period 1922-46	WRB 5, p. 80	
DOUGLAS COUNTY Walley's Hot Springs SEXSEX sec.21, T.14 N., R.20 E., 7 miles southeast of Carson City 600 est. For period 1961-64 les USGS files Carlin Springs Sec.33, T.33 N., R.52 E., 1½ miles southwest of Carlin. 2,700 est. Division of Water Resources and water Resources let wouthwest of Elko. 450 est. do.	17.69		TO HIWEST OF LAS VEGAS.	dry	1963	USGS files	
Walley's Hot Springs SEVSEY, sec.21, T.14 N., R.20 E., 7 miles southeast of Carson City 600 est. For period 1961-64 USGS files Carlin Springs Sec.33, T.33 N., R.52 E., 1½ miles southwest of Carlin. 2,700 est. Division of Water Resources do. Elko Hot Spring SEX sec.21, T.34 N., R.55 E., 1 mile southwest of Elko. 450 est. do.				DOUGLAS	COUNTY		
ELKO COUNTY Carlin Springs Sec.33, T.33 N., R.52 E., 1½ miles southwest of Carlin. Elko Hot Spring SE¼ sec.21, T.34 N., R.55 E., 1 mile southwest of Elko.	7	Walley's Hot Springs		600 est.	For period 1961-64	USGS files	Thermal
Carlin Springs Sec. 33, T. 33 N., R. 52 E., 1% miles 2,700 est. Division of southwest of Carlin. Elko Hot Spring SE% sec. 21, T. 34 N., R. 55 E., 1 mile southwest of Elko.				ELKO CC	UNTY		
Elko Hot Spring SE½ sec.21, T.34 N., R.55 E., 1 mile 450 est. do.	ω	Cartin Springs	Sec.33, T.33 N., R.52 E., 1½ miles southwest of Carlin.	2,700 est.		Division of Water Resources	Carlin water supply.
	6	Elko Hot Spring	SE½ sec.21, T.34 N., R.55 E., 1 mile southwest of Elko.	450 est.		do.	Thermal

More detailed information on these springs is available in the reference listed. The abbreviations listed under references refer to:

WRB — Nevada Water Resources Bulletin.

Rec. — Nevada reconnaissance series report.

WSP — U.S. Geological Survey Water-Supply Paper.

The word "Thermal" designates springs whose temperature is 90 or greater.

			ELKO COUNTY, continued	Y, continued		Table 5 — Page 2 of 6
	10 Gamble Ranch Springs	Sec.5, T.40 N., R.69 E., 7 miles north of Montello.	900 est.		do.	
-	11 Holland Springs	NE½ sec.20, T.33 N., R.58 E., 1½ miles northeast of Lamoille.	900 est.		do.	Several springs.
	12 Hot Creek Springs	Sec.32, T.43 N., R.60 E., 35 miles north of Deeth.	450 est.		do.	
	13 Hot Springs	Sec.15, T.39 N., R.59 E., 14 miles north of Deeth.	350		do.	Thermat
	14 Johnson Springs	SE½ sec.29, T.36 N., R.66 E., 4 miles south of Oasis.	1,500 est	1949	WRB 12, p. 28	Several springs.
	15 Ralphs Warm Springs	NE¼ sec.30, T.36 N., R.62 E., 8 miles south of Wells.	450 est.	1948	WRB 12, p. 108	
	16 Spring	NW¼ sec.22, T.47 N., R.68 E., 23 miles east of Jackpot.	850 est.	Prior to 1923	WSP 679B, p. 156	One spring on west side of Goose Creek.
	17 Spring Creek	Sec.8, T.37 N., R.57 E., 22 miles northeast of Elko.	2,000 est.		Division of Water Resources	
	18 Warm Spring	SE¼ sec.12, T.33 N., R.61 E., 24 miles south of Wells.	2,000 est.	1948	WRB 12, p. 108	
	19 Willow Creek Springs	Sec.31, T.31 N., R.57 E., 5 miles northeast of Jiggs.	600 est.		Division of Water Resources	
			ESMERALDA COUNTY	A COUNTY		
	20 Fish Lake Spring	SW% sec.25, T.2 S., R.35 E., 3 miles east of Dyer.	1,300 est.	12-01-49	WRB 11, p. 25	
	21 Waterworks Springs	NE¼ sec.22, T.2 S., R.39 E., at Silver Peak.	500 est	1917	WSP 423, p. 153	Eleven springs. Some Thermal.
			EUREKA COUNTY	COUNTY		
	22 Fish Creek Springs (Sara Ranch Springs)	Sec.8, T.16 N., R.53 E., 17 miles south of Eureka.	4,000	Prior to 1935	WSP 679B, p. 162	
	23 Hot Springs	Sec.12, T.28 N., R.52 E., 27 miles south of Carlin.	2,000 est.	1960	Rec. 2, p. 26	Six springs.
	24 Shipley Hot Springs (Sadler Springs)	NE''8E''4 sec. 23, T. 24 N., R. 52 E., 31 miles north of Eureka.	5,000	1960	USGS files	Thermal
	Thompson Banch Springs (Jacobson Banch Springs)	SW¼ sec.3, T.23 N., R.54 E., 28 miles north of Eureka.	900 est.	Prior to 1935	WSP 679B, p. 162	
	52 Klobe Spring	Sec.28, T.18 N., R.50 E.	450 est.	4-15-64	USGS files	Two springs. Thermal.
			HUMBOLDT COUNTY	COUNTY		
	26 Bog Hot Springs	Sec. 18, T.46 N., R.28 E., 10 miles southwest of Denio.	1,000 est.	1963	Rec. 22, p. 13	Thermal
l						

			HUMBOLDT COUNTY, continued	JNTY, continued		Table 5 — Page 3 of 6	
Map No.	Name	Location	Discharge (gallons per minute)	Date Measured	Reference	Remarks	T
27	Continental Hot Springs	Sec.13, T.46 N., R.28 E., 6 miles southwest of Denio.	200 est.	1963	Rec. 22, p. 13	Thermal	
28	Double Hot Springs	NW% sec.4, T.36 N., R.26 E., 19 miles northwest of Sulphur.	250 est.	Prior to 1963	Rec. 20, p. 24	Thermal	
- 59	Golconda Hot Springs	SE½ æc.29, T. 36 N., R.40 E., at Golconda.	200 est.	1962	WRB 24, p. 73	Total flow of thermal springs.	
ନ 	Hot Springs	Sec.35, T.37 N., R.43 E., 33 miles northeast of Winnemucca.	2,000 est.		Division of Water Resources	Thermal	
31	Nine Mile Springs	Sec.10, T.44 N., R.33 E., 25 miles northwest of Orovada.	450 est.	1961	WRB 16, p. 19	Several springs.	
			LANDER COUNTY	COUNTY			
32	Hot Springs	NE% sec.23, T.27 N., R.43 E., 34 miles south of Battle Mountain.	450 est.	1918	WSP 679B, p. 161	Several springs. Thermal.	
33	Izzenhood Ranch Springs	T.35 N., R.45 E., 20 miles north of Battle Mountain.	1,000 est.	1917	WSP 679B, p. 160		
34	New Pass Spring	Sec. 14, T.20 N., R.40 E., 25 miles west of Austin.	450 est.		Division of Water Resources		
			LINCOLN COUNTY	COUNTY			
35	Geyser Ranch Spring complex	Secs. 1 and 12, T.9 N., R.65 E., 25 miles southeast of Lund.	1,400	8-06-63	Rec. 24, p. 24	Several springs.	
36	Panaca Spring	Sec.4, T.2 S., R.68 E., 2 miles north of Panaca.	4,900	1963	USGS files		
	Pahranagat Valley Springs				,-		
37	Ash Springs	Sec.6, T.6 S., R.61 E., 6½ miles north of Alamo.	8,000	6-17-63	Rec. 21, p. 20	Six main springs. Thermal.	
8	Crystal Springs	SE% sec.10, T.5 S., R.60 E., 5 miles south of Hiko.	5,000	6-17-63	do.	Thermal	
8	Hiko Spring	Sec.14, T.4 S., R.60 E., at Hiko	3,000	6-17-63	do.	Thermal	1
			LYON COUNTY	OUNTY			
40	Nevada Hot Spring (Hinds Hot Springs)	Sec. 16, T.12 N., R.23 E., 8 miles northwest of Smith.	550	10-21-49	WSP 1228, p. 48	Several springs. Some Thermal.	
							1

 			NYE COUNTY	UNTY		Table 5 – Page 4 of 6
	Ash Meadows Springs					
41	Big Spring (Deep Spring and Ash Meadows Spring)	NE% sec.19, T.18 S., R.51 E., 9 miles northeast of Death Valley Junction, Calif.	1,000	7-26-62	Rec. 14, p. 27	
45	Crystal Pool	NE¼ sec.3, T.18 S., R.50 E., 10 miles northeast of Death Valley Junction, Calif.	2,800	7-29-62	Rec. 14, p. 26	Thermal
43	Fairbanks Spring	NE¼ sec.9, T.17 S., R.50 E., 11 miles south of Lathrop Wells.	1,700	7-23-62	Rec. 14, p. 25	
44	Jack-Rabbit Spring (Roger's Spring)	NW% sec.18, T.18 S., R.51 E., 10 miles northeast of Death Valley Junction, Calif.	590	7-27-62	Rec. 14, p. 26	
45	Longstreet Spring	NE% sec.22, T.17 S., R.50 E., 13 miles northeast of Death Valley Junction, Calif.	1,000	7-29-62	Rec. 14, p. 25	
46	Point of Rocks Springs (King Springs)	SE's sec.7, T.18 S., R.51 E., 11 miles northeast of Death Valley Junction, Calif.	1,100	7-25-62	Rec. 14, p. 26	Thermal
47	Rogers Spring	NE¼ sec.15, T.17 S., R.50 E., 12 miles southeast of Lathrop Wells.	740	7-29-62	Rec. 14, p. 25	
	Charnock Springs	Sec.28, T.13 N., R.44 E., 8½ miles southeast of Millet.	450 est.	1913	WSP 423, p. 91	Main spring.
49	Darroughs Hot Springs	NW½ sec.17, T.11 N., R.43 E., 14 miles south of Millet.	450 est.		Division of Water Resources	Several springs. Thermal,
20	Diana's Punch Bowl Spring	Sec.22, T.14N., R.47 E., 38 miles southeast of Austin.	900 est.	4-15-64	USGS files	Located near Diana's Punch Bowl. Thermal.
51	Hot Creek Spring	T.8 N., R.50 E., 56 miles northeast of Tonopah.	4,000 est.		Division of Water Resources	Thermal
	Rahrump Valley Springs	CANVEST COC 11 TODE RESE	2,500, dry 500 est 360.	7.18.43 1963 19 59 3.1 0. 71	WBB.5y.p. 48 USGS files USGS files USGS files Division of	Two large springs. Increased pumping. Two springs. Flow declining.
			450 est.	4-15-64	do.	Several springs.
	Railroad Valley Springs					
99	Big Warm Spring (Duckwater Springs)	Sec.21, T.12 N., R.56 E., 1 mile south of Duckwater.	6,200	Average for 1916	WRB 12, p. 145	
22	Blue Eagle Springs	SE¼ sec.11, T.8 N., R.57 E., 12 miles south of Currant.	2,270	2-13-48	WRB 12, p. 148	Two main springs.
28	Lockes Springs	SW% sec.15, T.8 N., R.55 E., 20 miles southwest of Currant.	2,000	2-07-34	do.	Big Spring (900 gpm), Hot Spring (200 gpm), Reynolds Spring (300 gpm), Stockyard Spring (600 gpm), Thermal.
59	White River Valley Springs Butterfield Springs	NW¼ sec.28, T.7 N., R.62 E., 30 miles south of Lund.	1,100 est.	1948	WRB 8, p. 37	Two orifices.

			NYE COUNTY, continued	Y, continued		Table 5 — Page 5 of 6
Map No.	Name	Location	Discharge (gallons per minute)	Date Measured	Reference	Remarks
09	Emigrant Springs	SE% sec. 19, T.9 N., R.62 E., 16 miles south of Lund.	1,400 est.	1948	WRB 8, p.37	Several springs.
61	Flag Springs	SE½ sec.32, T.7 N., R.62 E., 30 miles south of Lund.	1,100 est.	1948	do.	Several springs.
62	Hot Creek Spring	NE½ sec.18, T.6 N., R.61 E., 34 miles south of Lund.	6,900 est.	4-06-35	do.	Thermal
63	Moon River Spring	NW% sec.25, T.6 N., R.60 E., 37 miles south of Lund.	900 est.	1935	do.	Thermal
64	Mormon Springs	SE¼ sec.32, T.9 N., R.61 E., 20 miles southwest of Lund.	2,000 est.	1948	do.	Thermal
			PERSHING COUNTY	COUNTY		
65	McCoy Springs	SW% sec.35, T.26 N., R.39 E., 62 miles south of Winnemucca.	670 est.	6-07-59	Rec. 23, p. 31	Several springs. Thermal.
99	Springs	SW% sec.11, T.27 N., R.38 E., 52 miles south of Winnemucca.	500 est.	7-31-59	do.	Several springs.
			WASHOE COUNTY	COUNTY		
67	Boiling Springs	NW% sec. 15, T.34 N., R.23 E., 1 mile northwest of Gerlach.	200 est	Prior to 1963	Rec. 20, p. 24	Thermal
89	Hot Springs	SW¼ sec.1, T.34 N., R.23 E., 15 miles north of Gerlach.	500 est.	1961	Rec. 11, table 2	Many spring pools. Thermal.
69	Lawton Hot Springs	Sec.13, T.19 N., R.18 E., 5½ miles west of Reno.	250	2-11-58	USGS files	Several springs. Thermal.
70	Steamboat Springs	Sec. 33, T.18 N., R.20 E., south of Reno.	825	6-13-45	do.	Total flow from springs in general area. Thermal.
			WHITE PINE COUNTY	COUNTY		
71	Big Spring	T.10 N., R.70 E., 17 miles south of Garrison, Utah.	10,000 est.	1927	WSP 679B, p. 163	Probably base flow in Big Spring Creek.
72	Green Spring	SW¼ sec. 33, T.15 N., R.57 E., 33 miles southeast of Eureka.	680	4-29-48	WRB 12, p. 148	
73	North Creek Spring	SW% sec.19, T.10 N., R.65 E., 40 miles south of Ely.	700	8-04-63	Rec. 24, p. 24	
74	Simonsen Warm Springs	T.22 N., R.56 E., 25 miles northeast of Eureka.	1,000 est.	1960	Rec. 1, p. 12	Several springs.
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_		M	WHITE PINE COUNTY, continued	NTY, continued		Table 5 – Page 6 of 6
	Steptoe Valley Springs					
75	Borchert John Spring	Sec.16, T.22 N., R.63 E., 26 miles north of McGill.	800	5-22-18	WSP 467, p. 49	
92	Campbell Ranch Springs	Sec.5, T.19 N., R.63 E., 12 miles northwest of McGill.	1,200	9-06-17	WSP 467, p. 47	Outflow from two largest spring groups, over 500 small springs in seep area.
77	Comins Springs (Commings Springs)	Secs.20 and 21, T.15 N., R.64 E., 8 miles southeast of Ely	3,000 est.	Prior to 1918	WSP 467, p. 49	Several springs,
78	McGill Warm Springs	SE¼NW¼ sec.21, T.18 N., R.64 E., at northwest corner of McGill.	4,500 est	1918	WSP 467, p. 46	Main spring only.
79	Monte Neva Hot Springs (Melvin Hot Springs)	SW¼ sec.24, T.21 N., R.63 E., 19 miles north of McGill.	620	8-21-17	WSP 467, p. 47	Main spring only. Thermal.
80	Murry Springs (Murray Springs)	SE%SE% sec.20, T.16 N., R.63 E., 1 mile south of Ely.	3,300	Average for 1906-51	USGS Files	Several springs, water supply for Ely.
	White River Valley Springs					
8	Arnoldson Spring	SE%SE% sec.12, T.12 N., R.61 E., in Preston.	1,500	Average for 1910-47	WRB 8, p. 38, 39	
82	Cold Spring	NW¼ sec.12, T.12 N., R.61 E., at northwest corner of Preston.	930	Average for 1910-47	do.	
83	Lund Spring	NE½ sec.4, T.11 N., R.62 E., at southwest corner of Lund.	2,860	3-06-36	WRB 8, p. 37	
84	Nicolas Spring	SW¼SE¼ sec.12, T.12 N., R.61 E., in Preston.	1,200	Average for 1910-47	WRB 8, p. 38, 39	
88	Preston Big Spring	NE% sec.2, T.12 N., R.61 E., 1½ mile northwest of Preston.	3,800	Average for 1910-47	do.	

	NOR	NORTHWEST REGION	NOI		Table 6 – Page 1 of 9
Name of Reservoir	Stream Name	Map Number ¹	Surface Area (Ac.) ²	Capacity (Ac. Ft.) ²	Remarks
Humoldt County					
Alkali Reservoir	Virgin Creek	~	97	1,233	Irrigation
Big Spring Reservoir	Big Spring	2	480	1,680	Irrigation
Blue Lakes	Natural Lakes	ო	20	(120)	Recreation
Bog Hot Reservoir	Bog Hot Springs	4	38	154	Irrigation
Continental Lake	Craine, Alder & Thousand Creeks	2	200	(4,250)	Terminal Lake
Dufurrena Ponds	Thousand and Virgin Creeks	9	25	150	Recreation and Irrigation
Gooch Lake	Unnamed Drainage	7	154	(154)	Terminal Lake
Gridley Lake	Craine Creek	8	320	(320)	Terminal Lake
Knott Creek Reservoir	Knott Creek	6	86	1,620	trigation and Recreation
Little Onion Reservoir	Alder Creek	10	30	325	Irrigation
Onion Lake	Unnamed Drainage	1	774	(774)	Terminal Lake
Onion Valley Reservoir	Alder Creek	12	101	1,500	Irrigation & Recreation
Rock Springs Table Reservoir	Rock Springs Table Drainage	13	40	200	Stock
Smith Lake	Natural Lake	14	(2)	(10)	Stock
Virgin Valley Reservoir	Virgin Creek	15	20	90	Irrigation and Recreation
Washoe County					
Alkali Lake		16	3,750	(3,750)	Terminal Lake
Bald Mountain Lake		17	216	(216)	Terminal Lake
Big Holy Lake		18	200	(1,000)	Terminal Lake
Broyles Reservoir		19	78	(510)	Irrigation

¹This number refers to a map of Lakes and reservoirs which will be published as a part of the forthcoming Hydrologic Atlas.

²Values in parentheses are estimates.

³Reservoirs under 10 surface areas and diverson dams are not included.

Wighting County, continued Home Camp & Boulder Creeks Drainage 20 15 (78) Boulder Lake Boulder Creek 22 16 40 Cap Johnson Reservoir Denoid Creek 22 160 1,500 Cantril Reservoir Cantril Creek 23 222 935 Cantril Reservoir Cantril Creek 26 320 1500 Conternan Reservoir Conternan Creek 26 40 500 Conternan Reservoir Conternan Creek 27 3000 (3000) Duck Lake Conternan Creek 27 3000 (3000) Frog Yord Dam New Years Lake 30 77 386 Frog Yord Dam New Years Lake 30 77 386 Little Valley Reservoir Cherce Spring 31 80 400 Little Valley Reservoir Lost Creek 32 1,198 (3000) Massarre Lake New Years Lake Creek 36 40 (3000) Medel Lake Routo Valley Darinage		NORTHWES	NORTHWEST REGION, continued	ontinued		Table 6 – Page 2 of 9
Home Camp & Boulder Creeks Drainage 21 10 Boulder Creek Danio Creek 22 160 Sand Creek 23 222 Catrip Creek 26 40 Coleman Creek 26 321 Coleman Creek 26 40 Coleman Creek 27 3,000 Coleman Creek 29 92 Mosquito Creek 30 77 Glenco Spring 31 80 Cost Creek 33 1,198 New Years Lake Drainage 34 2,532 New Years Lake Drainage 37 1,500 Cuano Valley Drainage 38 2,000 Badger Creek 40 900 Badger Creek 41 130 Headwaters of Long Valley 43 1,248 Wall Creek 46 133 Wall Creek 46 133 Wall Creek 46 133 Wall Creek 47 1,248 Wall Creek 48 47 1,248 Wall Creek 48 48 Wall Creek 49 1,248 Wall Creek 40 40 Wall Creek 40 1,248 Wall Creek 40 40 Wall Creek 40 Wall Creek 40 40 Wall Creek 40	Washoe County, continued					
Boulder Creek 22 160 Denio Creek 23 222 Sand Creek 24 55 Cartrip Creek 26 321 Coleman Creek 26 321 Coleman Creek 26 321 New Years Lake Drainage 37 1,198 Naw Years Lake Drainage 38 2,000 Guanov Valley Drainage 38 32 New Years Lake Drainage 38 32 Naw Years Lake Drainage 38 32 Naw Years Lake Drainage 38 36 Lost Creek 39 200 Guanov Valley Drainage 38 30 Haadgar Creek 39 200 Haadgar Creek 47 1,198 Wall Creek 47 1,248 Wall Creek 48 Wall Creek 49 Wall Creek 41 133	Boulder Lake	Home Camp & Boulder Creeks Drainage	50	15	(78)	Terminal Lake
Denio Creek 23 180	Boulder Reservoir	Boulder Creek	21	10	40	Irrigation
Sand Creek 23 222 Carnip Creek 24 55 Coleman Creek 26 40 Now Years Lake Drainage 27 3,000 Mosquito Creek 29 92 Glenco Spring 31 80 Lost Creek 33 1,198 Rye Grass Creek 36 935 Long Valley Drainage 37 1,500 Badger Creek 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 45 1,248 Wall Creek 45 1,248 Wall Creek 45 1,248	Cap Johnson Reservoir	Denio Creek	22	160	1,500	Irrigation
Coleman Creek 26 321 Coleman Creek 26 440 Coleman Creek 30 27 3,000 New Years Lake Drainage 29 92 Mosquito Creek 31 31 80 Lost Creek 32 32 1,198 Rye Grass Creek 40 900 Badger Creek 41 130 Fish and Badger Creeks 45 1,248 Wall Creek 45 45 1,248 Wall Creek 47 1,138	Carter Reservoir	Sand Creek	23	222	935	Irrigation
Coleman Creek 26 321	Catnip Reservoir	Catnip Creek	24	55	220	Irrigation
Coleman Creek 26 40 27 3.0000 28 352 New Years Lake Drainage 29 92 Mosquito Creek 30 77 Glenco Spring 31 80 Lost Creek 33 112 Lost Creek 33 2,532 Reguano Valley Drainage 38 32 Raye Grass Creek 39 200 Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Badger Creek 40 900 Badger Creek 41 130 Fish and Badger Creeks 40 900 Wall Creek 45 133 Wall Creek 45 133 Mall Creek 45 133 BLACK ROCK DESERT REGION	Central Lake		25	321	(150)	Terminal Lake
27 3.000 Now Years Lake Drainage 29 92 Mosquito Creek 30 77 Glenco Spring 31 80 Lost Creek 33 11 80 Lost Creek 33 12 33 Now Years Lake Drainage 38 36 935 New Years Lake Drainage 38 37 1,500 Guano Valley Drainage 38 38 220 Long Valley Drainage 40 900 Badger Creek 39 200 Headwaters of Long Valley 41 130 Wall Creek 45 45 133 Wall Creek 45 12.248	Coleman Reservoir	Coleman Creek	26	40	200	Irrigation
28 362 New Years Lake Drainage 29 92 Mosquito Creek Glenco Spring 31 80 Clenco Spring 32 30 Lost Creek 33 112 New Years Lake Drainage 36 935 New Years Lake Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 38 32 Rye Grass Creek 39 200 Badger Creek 39 200 Headwaters of Long Valley Prainage 40 900 Wall Creek 45 133 Wall Creek 45 1248	Duck Lake		27	3,000	(3,000)	Terminal Lake
New Years Lake Drainage 29 92	Forty-nine Lake		28	352	(200)	Terminal Lake
Mosquito Creek	Frog Pond Dam	New Years Lake Drainage	29	92	395	frrigation
Glenco Spring 31 80 Lost Creek 32 30 Lost Creek 34 2,532 Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 39 200 Eish and Badger Creeks 40 900 Headwaters of Long Valley 41 130 Wall Creek 45 153 Wall Creek 45 1538	Hill Dam	Mosquito Creek	30	77	396	Irrigation
32 30 Lost Creek 33 12 New Years Lake Drainage 36 935 New Years Lake Drainage 37 1,198 Rye Grass Creek 39 200 Long Valley Drainage 38 32 Rye Grass Creek 39 200 Badger Creek 40 900 Badger Creek 41 130 Wall Creek 45 42 500 Wall Creek 45 182 Wall Creek 45 133 BLACK ROCK DESERT REGION	Little Valley Reservoir	Glenco Spring	31	80	400	Irrigation
Lost Creek 33 12 34 2,532 35 1,198 36 935 New Years Lake Drainage 37 1,500 Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 5500 Headwaters of Long Valley 43 15 Wall Creek 45 133 Wall Creek 45 133 Wall Creek 133 Wall Creek 133	Little Holy Lake		32	30	(30)	Terminal Lake
34 2,532 36 1,198 36 935 New Years Lake Drainage 37 1,500 Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 45 133 Wall Creek 45 133	Lost Creek Reservoir	Lost Creek	33	12	86	Irrigation
35 1,198 New Years Lake Drainage 36 935 New Years Lake Drainage 37 1,500 Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 44 770 Wall Creek 45 133 Wall Creek 46 133	Massacre Lake		34	2,532	(3,000)	Terminal Lake
New Years Lake Drainage 36 935 Guano Valley Drainage 38 32 Rye Grass Creek 40 900 Long Valley Drainage 41 130 Badger Creek 42 500 Fish and Badger Creeks 43 15 Headwaters of Long Valley 43 15 Wall Creek 46 133 Wall Creek 46 1,248 BLACK ROCK DESERT REGION	Middle Lake		35	1,198	(006)	Terminal Lake
New Years Lake Drainage 37 1,500 Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 45 182 Wall Creek 46 133 Wall Creek 47 1,248	Mosquito Lake		36	935	(400)	Terminal Lake
Guano Valley Drainage 38 32 Rye Grass Creek 39 200 Long Valley Drainage 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 46 133 Wall Creek 46 133 Wall Creek 47 1,248	New Years Lake	New Years Lake Drainage	37	1,500	9'000	Irrigation
Rye Grass Creek 39 200 Long Valley Drainage 40 900 Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 45 182 Wall Creek 46 133 Wall Creek 47 1,248	Racetrack Reservoir	Guano Valley Drainage	38	32	75	Stock
Long Valley Drainage 40 900 Badger Creeks 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 45 182 Wall Creek 46 133 Wall Creek 47 1,248 BLACK ROCK DESERT REGION	Rye Grass Reservoir	Rye Grass Creek	Ø,	200	498	Irrigation
Badger Creek 41 130 Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 45 182 Wall Creek 46 133 Wall Creek 47 1,248	Mud Lake	Long Valley Drainage	40	006	(1,200)	Stock, Terminal Lake
Fish and Badger Creeks 42 500 Headwaters of Long Valley 43 15 Wall Creek 45 70 Wall Creek 46 133 Wall Creek 47 1,248	Swan Lake	Badger Creek	41	130	(300)	Stock, Terminal Lake
Headwaters of Long Valley 43 15 15 16 170 182 182 182 133 15 170	Swan Lake Reservoir	Fish and Badger Creeks	42	200	1,000	Irrigation
Wall Creek 45 70 Wall Creek 46 133 2 Wall Creek A6 133 2 A7 1,248 BLACK ROCK DESERT REGION	Toney Reservoir	Headwaters of Long Valley	43	15	(82)	Irrigation
Wall Creek 45 182 183 24 133 24 1.248 17 1.248 17 1.248	Wimer Reservoir		44	70	(320)	Irrigation
Wall Creek 46 133 2 1.248 47 1.248 BLACK ROCK DESERT REGION	Wail Creek Dam	Wall Creek	45	182	400	Irrigation
BLACK ROCK DESERT REGION	Wall Creek Dam No. 2	Wall Creek	46	133	2,200	frigation
BLACK ROCK DESERT REGION	West Lake		47	1,248	(006)	Terminal Lake
BLACK NOCK DESERT REGION			7000			
	Humboldt County					
Bilk Creek Reservoir Bilk Creek 800	Bilk Creek Reservoir	Bilk Creek	48	(110)	800	Irrigation
49 500	Delong Reservoir	Quinn River	49	200	2,275	Irrigation
High Rock Lake 650 (500)	High Rock Lake	High Rock Creek	50	650	(200)	Stock

	BLACK ROCK DESERT REGION, continued	ESERT REGIO	N, continued		Table 6 – Page 3 of 9
Name of Reservoir	Stream Name	Map Number	Surface Area (Ac.)	Capacity (Ac. Ft.)	Remarks
Humboldt County, continued				-	
Jungo Flat Lake	Low elevation snowmelt	51	10	. 52	Terminal Lake
Mud Meadows Reservoir	Mud Meadows Creek	52	80	215	Irrigation
Summit Lake	Mahogany and Snow Creeks	53	260	(2,000)	Fish propagation
Van Vleck Reservoir	Soldier Creek	54	250	2,750	Irrigation
Weiss & Vogel Reservoir	Donnley Creek	55	150	450	Irrigation
Wheeler Reservoir (Donnley Creek)	Mud Meadows Creek	26	154	1,100	Irrigation
Washoe County					
Denio Reservoir	Weimer Spring Creek	57	30	110	Irrigation
Dewey Parker Reservoirs	Buffalo Slough	28	156	428	Irrigation
Fly Reservoir	Cottonwood Creek and Hotsprings	29	40	350	Irrigation
Grass Valley Reservoir	Grass Valley Creek	09	10	20	Irrigation
Negro Creek Dam	Negro Creek	61	20	497	Irrigation
Smoke Creek Reservoir	Smoke Creek	62	06	1,200	Irrigation (90% of reservoir in California)
Squaw Valley Reservoir	Squaw Valley Creek	63	47	1,200	Irrigation
Woodruff Reservoir	Little High Rock Creek	64	128	(200)	Irrigation
	SNAK	SNAKE RIVER BASIN	Z		
Eiko County					
Bull Run Reservoir	Bull Run Creek	65	106	1,246	Irrigation
Charleston Reservoir	Mason Creek	99	40	200	Irrigation
Chimney Creek Reservoir	Chino and Wolf Creeks	67	928	096'6	Irrigation
Coyote Hole Reservoir	Drainage Water	89	18	(36)	Stock
Coyote Lake	Natural Lake	69	25	(20)	Stock
Deep Creek Reservoir	Deep Creek	70	136	1,410	Irrigation
Dry Creek Reservoir	Dry Creek	71	110	1,910	Irrigation
Emerald Lake	Natural Lake	72	-	(4)	Stock
Groundhog Reservoir	Drainage Lake	73	16	(32)	Stock
Jakes Creek Reservoir	Jakes Creek	74	62	472	Irrigation
Josephine Reservoir	Drainage Waters	75	250	1,250	Stock
Rawhide Reservoir	Indian and Bull Run Creeks	92	147	1,540	Irrigation

	SNAKE RIVER BASIN, continued	ER BASIN,	continued		Table 6 - Page 4 of 9
Elko County, continued					
Sheep Creek Reservoir	Sheep Creek	77	850	7,500	Recreation
Sunflower Reservoir	Corey's Dam Springs	78	09	(120)	Stock
Wildhorse Reservoir	Owyhee River	62	3,000	72,000	Irrigation
Wilson Reservoir	Bull Run and Wilson Creeks	80	828	10,469	Irrigation
	НОМВО	HUMBOLDT RIVER BASIN	SASIN		
Elko County					
Ackler Lake	Natural Lake	81	10	(54)	Recreation
Angel Lake	Natural Lake	82	13	(70)	Irrigation and Recreation
Bishop Creek Reservoir	Bishop Creek	83	782	30,000	Irrigation
Boulder Lake	Natural Lake	84	9	(30)	Recreation
Boyd Reservoir	Rabbit Creek	82	(120)	830	Irrigation
Castle Lake	Natural Lake	98	6	(48)	Recreation
Cold Lake	Natural Lake	87	9	(30)	Recreation
Dorsey Creek Reservoir	Dorsey Creek	88	14	150	Irrigation
Echo Lake	Natural Lake	68	59	(175)	Recreation
Eight Mile Creek Reservoir	Eight Mile Creek	06	45	944	Flood Control
Favre Lake	Natural Lake	91	19	(110)	Recreation
Fifth St. Wash Reservoir	Fifth St. Wash	92	10	94	Flood Control
Greys Lake	Natural Lake	93	വ	(25)	Recreation
Griswold Lake	Butterfield Creek	94	15	(82)	Irrigation
Hidden Lake	Natural Lake	92	6	(48)	Recreation
Island Lake	Natural Lake	96	7	(32)	Recreation
John Day Reservoir	Warm Spring, Cold Creek & Lamoille Ck.	6	127	561	Irrigation
Lamoille Lake	Natural Lake	86	13	(70)	Recreation
Liberty Lake	Natural Lake	66	21	(125)	Recreation
Lost Lake	· Natural Lake	100	ო	(14)	Recreation
North Furlong Lake	Natural Lake	101	∞	(40)	Recreation
Pearl Lake	Natural Lake	102	വ	(25)	Recreation
Seitz Lake	Natural Lake	103	ო	(14)	Recreation
Sleeman Ponds	Drainage Water	104	12	20	Stock
Smith Lake	Natural Lake	105	ო	(14)	Recreation
Soldier Lake	Natural Lake	106	9	(30)	Recreation

Stream Name Number Area (Ac.)		номвогр	HUMBOLDT RIVER BASIN, continued	, continued		Table 6 – Page 5 of 9
Natural Lake	Name of Reservoir	Stream Name	Map Number	Surface Area (Ac.)	Capacity (Ac. Ft.)	Remarks
Reservoir Natural Lake 107 5 (25) voir Smith and Cottonwood Creeks 108 761 18,064 voir Smith and Cottonwood Creeks 109 30 (180) pir Ganz Creek 111 1,032 1,550 Reservoir Iowa Creek 112 28 437 parch Reservoir Sheep Creek 113 100 50 voir Humboldt River 116 80 100 ke Drainage water 116 80 100 ke Drainage water 118 70 (46,000) Nylor ¹ Humboldt River 120 (1,000) 29,570 Humboldt River 123 33 20,000 139,000 Humboldt River 123 3,500 (38,000) No. 1 Drainage Water 123 3,500 (38,000)	Elko County, continued					
Reservoir Willow Creek 108 761 18,064 voir Smith and Cottonwood Creeks 109 30 (180) pir Ganz Creek 110 10 15 Reservoir Lowa Creek 111 1,032 1,550 nich Reservoir Sheep Creek 111 2,8 437 norit Reservoir Humboldt River 115 28 437 norit Reservoir Humboldt River 116 80 100 norit Mud Springs 118 70 (490) nylor ¹ Humboldt River 120 (1,900) 29,570 nylor ¹ Humboldt River 120 (1,700) 20,200 nylor ¹ Humboldt River 123 3,500 (38,000) no. and Drainage Water 124 276 910	Verdi Lake	Natural Lake	107	2	(25)	Recreation
voir Smith and Cottonwood Creeks 109 30 (180) pir Ganz Creek 110 10 15 Reservoir I owa Creek 111 1,032 1,550 nnch Reservoir Sheap Creek 112 28 437 nnch Reservoir Sheap Creek 113 1,00 50 voir Rock Creek 114 1,3 1,00 100 voir Humboldt River 116 80 1,00 1,00 ke Drainage water 118 7,00 (46,000) 100 nylor I Humboldt River 120 1,700 29,570 10,00 Humboldt River 120 1,700 20,500 10,00 10,00 Humboldt River 120 1,200 179,000 10,00 No. 1 Drainage Water 123 3,500 (38,000)	Willow Creek Reservoir	Willow Creek	108	761	18,064	Irrigation
oir Ganz Creek 110 10 15 Reservoir Lowa Creek 111 1,032 1,550 Reservoir Sheep Creek 112 28 437 voir Sheep Creek 113 100 50 voir Humboldt River 115 787 1,720 Noir Humboldt River 116 80 100 Dann Mud Springs 118 70 (46,000) Nylor1 Humboldt River 120 (1,700) 29,570 Heservoir Springs 121 37 236 Humboldt River 122 10,800 179,000 Drainage Water 123 3,500 (18,000) No. 1 Drainage Water 129 Reservoir 29 Reservoir 29 Reservoir 200 Reservoir	Zunino Reservoir	Smith and Cottonwood Creeks	109	30	(180)	Irrigation
Reservoir Carico Lake Creek 111 1,032 1,550 anch Reservoir Sheep Creek 112 28 437 voir Sheep Creek 113 10 50 voir Rock Creek 114 13 100 voir Humboldt River 116 80 100 ke Drainage water 117 4,200 (46,000) bam Mud Springs 118 70 (4900) bylor ¹ Humboldt River 120 (1,700) 29,570 Bylor ¹ Humboldt River 120 (1,700) 20,500 Bylor ¹ Humboldt River 120 (1,700) 20,500 Byrings 121 37 236 Humboldt River 123 3,500 (38,000) No. 1 Drainage Water 124 276 910	Saval Reservoir	Ganz Creek	110	10	15	Irrigation
Reservoir Lova Creek 111 1,032 1,550 anch Reservoir Sheep Creek 112 28 437 voir Sheep Creek 113 10 50 voir Humboldt River 115 787 1,720 bugh Humboldt River 116 80 100 ke Drainage water 117 4,200 (46,000) bam Mud Springs 118 70 (46,000) sylor³ Humboldt River 120 (1,700) 20,200 I Reservoir Springs 123 3,500 (139,000) No. 1 Drainage Water 123 3,500 (38,000) No. 1 Drainage Water 124 276 910	Lander County					
Reservoir Lowa Creek 112 28 437 anch Reservoir Sheep Creek 113 10 50 voir Bock Creek 114 13 100 uoli Humboldt River 116 80 100 ke Drainage water 117 4,200 (46,000) bam Mud Springs 118 70 (4900) vylorl Humboldt River 120 (1,300) 20,200 sylorl Humboldt River 120 (1,700) 20,200 Humboldt River 123 3,500 (179,000) Drainage Water 123 3,500 (38,000) No. 1 Drainage Water I Drainage Water I 24 S76 S76 B10	Carico Lake	Carico Lake Creek	111	1,032	1,550	Irrigation
norir Sheep Creek 113 10 50 voir Rock Creek 114 13 100 voir Bock Creek 115 787 170 bugh Humboldt River 116 80 100 ke Drainage water 117 4,200 (46,000) bam Mud Springs 118 70 (46,000) bylor ¹ Humboldt River 120 (1,700) 20,200 sylor ¹ Humboldt River 122 10,800 179,000 I Reservoir Springs 123 3,500 (38,000) No. 1 Drainage Water 123 3,500 (38,000)	lowa Canyon Reservoir	Iowa Creek	112	28	437	Irrigation
voir Fack Creek 114 13 100 bugh Humboldt River 116 80 1,720 bugh Humboldt River 117 4,200 (46,000) bam Mud Springs 118 70 (46,000) bylor³ Humboldt River 120 (1,900) 29,570 I Reservoir Springs 121 37 236 Humboldt River 122 10,800 179,000 Drainage Water 123 3,500 (38,000) No. 1 Drainage Water 124 276 276 910	Izzenhood Ranch Reservoir	Sheep Creek	113	10	90	Irrigation
bugh Humboldt River 115 787 1,720 bugh Humboldt River 116 80 100 blam Drainage water 117 4,200 (46,000) Dam Mud Springs 118 70 (490) aylor³ Humboldt River 120 (1,900) 29,570 Bylor³ Humboldt River 120 (1,700) 20,200 Humboldt River 122 10,800 179,000 Drainage Water 123 3,500 (38,000) No. 1 Drainage Water No. 1 Drainage Water 124 276 910	Nelson Reservoir	Rock Creek	114	13	100	Irrigation
am Humboldt River 115 787 1,720 Slough Humboldt River 116 80 100 Lake Drainage water 117 4,200 (46,000) gs Dam Mud Springs 118 70 (46,000) -Taylor I Humboldt River 120 (1,700) 20,200 -Kel Reservoir Springs 121 37 236 kel Humboldt River 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000)	Pershing County					
Slough Humboldt River 116 80 100 Lake Drainage water 117 4,200 (46,000) gs Dam Mud Springs 118 70 (4900) -Taylor¹ Humboldt River 120 (1,300) 29,570 -Faylor¹ Humboldt River 121 37 20,200 2 Humboldt River 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000) ABANO. 1 Drainage Water 124 276 910	Big Five Dam	Humboldt River	115	787	1,720	Irrigation
Lake Drainage water 117 4,200 (46,000) gs Dam Mud Springs 118 70 (490) -Taylor¹ Humboldt River 120 (1,700) 29,570 -Kel Reservoir Springs 121 37 236 ke Humboldt River 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000) MGST CENTRAL REGION Taylor³ ABOUT TAYLORS Taylor³ Graveyard Slough	Humboldt River	116	80	100	Irrigation	
gs Dam Mud Springs 118 70 (490) -Taylor¹ Humboldt River 119 (1,900) 29,570 -taylor¹ Humboldt River 120 (1,700) 20,200 kel Reservoir Springs 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000) WEST CENTRAL REGION	Humboldt Lake	Drainage water	117	4,200	(46,000)	Recreation
Taylor¹ Humboldt River 119 (1,900) 29,570 -Taylor¹ Humboldt River 120 (1,700) 20,200 2 Humboldt River 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000) WEST CENTRAL REGION am No. 1 Drainage Water 124 276 910	Mud Springs Dam	Mud Springs	118	70	(490)	frrigation
Taylor¹ Humboldt River 120 (1,700) 20,200 Skel Reservoir Springs 121 37 236 Lumboldt River 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000) WEST CENTRAL REGION am No. 1 Drainage Water 124 276 910	Upper Pitt-Taylor ¹	Humboldt River	119	(1,900)	29,570	Irrigation
kel Reservoir Springs 121 37 236 Lumboldt River 122 10,800 179,000 ke Drainage Water 123 3,500 (38,000) WEST CENTRAL REGION 124 276 910	Lower Pitt-Taylor ¹	Humboldt River	120	(1,700)	20,200	Irrigation
2 Humboldt River 122 10,800 179,000	Pumpernickel Reservoir	Springs	121	37	236	Irrigation
ke Drainage Water 123 3,500 (38,000) am No. 1 Drainage Water 124 276 910	Rye Patch2	Humboldt River	122	10,800	179,000	Irrigation and Recreation
WEST CENTRAL REGION am No. 1 Drainage Water 124 276 910	Toulon Lake	Drainage Water	123	3,500	(38,000)	Recreation
WEST CENTRAL REGION am No. 1 Drainage Water 124 276 910						
am No. 1 Drainage Water 124 276 910		WES	T CENTRAL RE	SION		
Urainage Water 124 276 910	Lyon County			0		
	rerniey Dam No. 1	Urainage water	+7	9/7	0.6	Wildlife Management
Fernley Dam No. 3 Drainage Water 125 95 476 Wildlife Managem	Fernley Dam No. 3	Drainage Water	125	95	476	Wildlife Management

 $^{1}\mbox{Effective}$ capacity of both of the Pitt-Taylor Reservoirs is $36,\!000$ acrefect.

²When the flash boards are in place the capacity of Rye Patch Reservoir is incress to 191,000 feet.

	TRUCK	TRUCKEE RIVER BASIN	ASIN		Table 6 – Page 6 of 9
Douglas County					
Spooner Lake	North Canyon Creek	126	69	(400)	Irrigation
Lake Tahoe	Headwaters	127	36,4001	745,000 ²	Multiple Purpose
Washoe County					
Lake Alexander		128	58	(250)	Irrigation
Gasperi	Truckee River	129	30	06	Irrigation
Highland	Truckee River	130	10	(54)	Municipal
Hobart Creek Reservoir	Franktown and Hobart Creek	131	10	110	Municipal
Incline Lake	Third Creek	132	30	157	Recreation
Marlette Lake	Marlette Lake Basin	133	350	10,400	Municipal and Recreation
Milk Ranch Reservoir	Dry Valley Creek	134	23	252	Irrigation
Price Lake	Ophir Creek	135	10	(54)	Irrigation
Pyramid Lake	Truckee River	136	108,000 ³	20,510,000 ³	Recreation, Terminal Lake
Rock Lake	Snowmelt	137	20	(105)	Irrigation
Spanish Flat Reservoir	Dry Valley Creek	138	236	1,000	Irrigation
Spanish Springs	Truckee River and Artesian Wells	139	30	(185)	Irrigation
Tamarack Lake	Snowmelt	140	10	(54)	Recreation
Virginia Lake	Truckee River	141	24	140	Recreation
Washoe Lakes	Frank town Creek	142	5,800	31,000	Irrigation, Recreation and Wildlife Management
Wheeler Reservoir	Truckee River and Evans Creek	143	46	948	Irrigation
Winnemucca Ranch Reservoir	Sugar Cane Springs	144	22	09	Irrigation
	CARSC	CARSON RIVER BASIN	NISA		
Churchill County					
Carson Lake	Drainage Waters	145	2,000	(4,000)	Recreation
Desert Gun Club Reservoirs	Hazen Slough	146	100	200	Recreation
Harmon	Drainage Waters	147	200	400	Recreation
Hazen Reservoir	Truckee River	148	10	20	Irrigation
Indian Lakes	Drainage Water	149	400	(3,500)	Recreation

 $^{1}\mathrm{Nevada}$'s portion of area - remainder (85,600 ac.) in California.

 $^{^2\!}The$ quantity of water subject to regulation between the levels of 6,223 and 6,229 feet. Total capacity = 122,000,000 acre feet.

 $^{^3\!\}mathrm{Area}$ and capacity at a lake level of 3,789 feet above sea level (1968).

Outmate of Reservoir Stream Name Map Surface Capacity Remarks Churchill Courtly, continued Carron and Trucker Rivers 150 10,000 273,8001 Irrigation and Remarks Labronium Reservoir Deringer Water 151 270 273,8001 Irrigation and Remarks Old River Reservoir Deringer Water 152 360 700 Remarks Solds Liver Natural Lake 153 386 360 Remarks Solds Liver Carron River 156 45 375 Irrigation Douglass County East Eark Carron River 156 45 375 Irrigation Douglass County East Eark Carron River 159 30 Irrigation Irrigation Douglass County Antested Reservoir No. 3 at Eark Carron River 156 45 375 Irrigation Douglass County Mult Lake East Eark Carron River 159 30 1,000 Irrigation Arrisks Lake Beannan Lake Doninger Waters 156 30		CAR	CARSON RIVER BASIN	NIS		Table 6 – Page 7 of 9
W, Continued Carson and Truckee Rivers 150 10,000 2273,6001 reservoir Drainage Water 151 270 500 rS** Drainage Water 152 350 700 rint Reservoir Drainage Waters 153 385 35,000 sint Reservoir Drainage Waters 154 1,900 19,000 servoir No. 3 East Fork Carson River 156 45 375 servoir No. 3 East Fork Carson River 159 30 90 servoir No. 4 East Fork Carson River 158 150 1,000 servoir No. 4 East Fork Carson River 159 300 1,000 servoir No. 4 East Fork Carson River 169 1,000 1,000 e Drainage Waters 161 1,000 1,000 e Drainage Waters 162 80 480 oir Waste Water 163 1,000 (1,000) e Drainage Waters 163 25 1,1,155<	Name of Reservoir	Stream Name	Map	Surface Area (Ac.)	Capacity (Ac. Ft.)	Remarks
Sear voir Carson and Truckee Rivers 150 10,000 273,8001 Servoir Drainage Water 151 270 500 SSV. Natural Lake 153 386 35,000 sint Reservoir Drainage Waters 154 1,900 19,000 sint Reservoir No. 1 and 2 East Fork Carson River 156 45 375 servoir No. 3 East Fork Carson River 159 300 1,800 servoir No. 3 East Fork Carson River 159 300 1,800 servoir No. 4 East Fork Carson River 169 300 1,800 servoir No. 4 East Fork Carson River 169 1,000 1,800 servoir No. 4 Lordinage Waters 169 1,000 1,800 servoir No. 4 Unsituage Waters 161 1,000 1,800 servoir Waste Water 162 80 480 servoir Rose Creek 163 32 656 Hear Nater River 166 38,0004 <	Churchill County, continued					
Searvoir Drainage Water 151 270 500 SS' Drainage Water 152 350 700 Natural Lake 153 385 35,000 pirt Carson River 156 45 19,000 pir East Fork Carson River 156 45 375 pservoir No. 3 aservoir No. 4 East Fork Carson River 159 300 1,000 pservoir No. 4 East Fork Carson River 159 300 1,800 pservoir No. 4 East Fork Carson River 159 300 1,800 pservoir No. 4 Drainage Waters 169 1,260 ² 59,400 ³ pir Waste Water 162 80 480 pir Waste Water 163 10 1,155 pservoir Rose Creek 165 32,000 1,155 pservoir Rose Creek 165 32,000 1,155 pservoir 166 38,000 1,1500 1,155 pservoir Walke	Lahontan Reservoir	Carson and Truckee Rivers	150	10,000	273,6001	Irrigation and Recreation
'S'' Drainage Water 152 360 700 Dint Reservoir Drainage Waters 153 385 35,000 Dint Reservoir Drainage Waters 156 30 19,000 Dint Reservoir No. 1 and 2 East Fork Carson River 156 45 375 servoir No. 2 East Fork Carson River 157 80 500 servoir No. 3 East Fork Carson River 158 150 1,000 servoir No. 4 East Fork Carson River 158 300 1,800 servoir No. 4 East Fork Carson River 169 1,250 ² 59,400 ³ servoir No. 4 Drainage Waters 160 1,250 ² 59,400 ³ servoir No. 4 Drainage Waters 163 10 1,155 servoir No. 4 Bose Creek 164 25 1,155 deservoir No. 4 Rose Creek 166 295 1,155 deservoir No. 4 Water River 166 295 1,155	Old River Reservoir	Drainage Water	151	270	200	Recreation
oint Reservoir Drainage Waters 153 385 35,000 oint Reservoir Drainage Waters 154 1,900 19,000 servoir No. 1 and 2 East Fork Carson River 156 45 375 servoir No. 3 East Fork Carson River 157 80 500 sservoir No. 4 East Fork Carson River 158 150 1,000 sservoir No. 4 East Fork Carson River 159 300 1,000 indian Creek 159 300 1,000 indian Creek 159 300 1,000 indian Creek 161 1,000 1,000 indian Creek 162 80 480 indian Creek 163 1,000 1,000 indian Creek 163 1,000 1,100 indian Creek 163 1,000 1,100 indian Creek 163 1,155 1,155 indian Creek 166 38,000 2,990,000 indian Creek 167 2,990,00	Ollies Pond "S"	Drainage Water	152	350	700	Recreation
oint Reservoir Drainage Waters 154 1,900 19,000 oir Seervoir No. 1 and 2 East Fork Carson River 155 30 90 sservoir No. 3 East Fork Carson River 157 80 500 sservoir No. 4 East Fork Carson River 159 300 1,000 sservoir No. 4 East Fork Carson River 159 300 1,800 sservoir No. 4 East Fork Carson River 159 300 1,800 sservoir No. 4 East Fork Carson River 169 300 1,000 servoir No. 4 Drainage Waters 160 1,250 ² 59,400 ³ if West Water River 163 10 (1,000) oir Waste Water 163 10 (54) Asservoir Cat Creek 166 38,000 ⁴ 2,990,000 ⁴ Walker River Walker River 166 38,000 ⁴ 2,990,000 ⁴ wolir Walker River 167 950 (13,000)	Soda Lake	Natural Lake	153	385	35,000	Recreation
oir seervoir No. 1 and 2 Carson River East Fork Carson River 155 30 90 sservoir No. 3 East Fork Carson River 157 80 500 sservoir No. 4 East Fork Carson River 158 150 1,000 sservoir No. 4 East Fork Carson River 159 300 1,800 sservoir No. 4 Indian Creek 159 300 1,800 sservoir No. 4 Least Fork Carson River 169 1,000 1,800 servoir No. 4 Undian Creek 169 1,250 ² 59,400 ³ servoir No. 4 Drainage Waters 161 1,000 (1,000) servoir Waste Water 163 10 (1,000) Asservoir Reservoir Reservoir Nalker River 166 38,000 ⁴ 2,990,000 ⁴ Walker River 167 950 (13,000)	Stillwater Point Reservoir	Drainage Waters	154	1,900	19,000	Recreation
oir Carson River 156 30 90 sservoir No. 3 East Fork Carson River 156 45 375 sservoir No. 4 East Fork Carson River 157 80 500 sservoir No. 4 East Fork Carson River 159 300 1,000 Indian Creek Mest Walker River 169 1,250 59,400 ³ servoir Unainage Waters 161 1,000 11,000 servoir Waste Water 163 1,00 1,155 Reservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 166 38,000 ⁴ 2,990,000 ⁴ walker River 167 950 (13,000)	Douglas County					
sservoir No. 1 and 2 East Fork Carson River 156 45 375 sservoir No. 3 East Fork Carson River 157 80 500 sservoir No. 4 East Fork Carson River 159 300 1,000 Indian Creek MALKER RIVER BASIN West Walker River 160 1,250 ² 59,400 ³ e Drainage Waters 161 1,000 (1,000) oir Waste Water 163 59,400 ³ servoir Cat Creek 163 10 (1,000) Reservoir Rose Creek 164 25 1,155 Reservoir Walker River 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Bose Reservoir	Carson River	155	30	06	Irrigation
seervoir No. 3 East Fork Carson River 157 80 500 seervoir No. 4 East Fork Carson River 158 150 1,000 MALKER RIVER BASIN West Walker River 160 1,250 ² 59,400 ³ e Drainage Waters 161 1,000 (1,000) e Drainage Waters 162 80 480 bir Waste Water 163 10 (54) eservoir Cat Creek 164 25 1,155 Asservoir Rose Creek 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Dangberg Reservoir No. 1 and 2	East Fork Carson River	156	45	375	Irrigation
seevoir No. 4 East Fork Carson River 158 150 1,000 WALKER RIVER BASIN West Walker River 160 1,250 ² 59,400 ³ bir Drainage Waters 162 80 480 bir Waste Water 163 10 (1,000) bir Waste Water 163 10 (54) Reservoir Cat Creek 165 32 656 Nalker River 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Dangberg Reservoir No. 3	East Fork Carson River	157	80	200	Irrigation
WALKER RIVER BASIN WALKER RIVER BASIN West Walker River 160 1,250 ² 59,400 ³ Indiange Waters 161 1,000 1,000 Indiange Waters 162 80 480 Indiange Waters 163 10 (54) Indiange Waters 164 25 1,155 Asservoir Rose Creek 165 32 656 Walker River 166 38,000 ⁴ 2,990,000 ⁴ Voir Walker River 167 950 (13,000)	Dangberg Reservoir No. 4	East Fork Carson River	158	150	1,000	Irrigation
WALKER RIVER BASIN West Walker River 160 1,250 ² 59,400 ³ b Drainage Waters 161 1,000 (1,000) bir Waste Water 162 80 480 bir Waste Water 163 10 (54) eservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 165 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Mud Lake	Indian Creek	159	300	1,800	Irrigation
WALKER RIVER BASIN WALKER RIVER BASIN West Walker River 160 1,250 ² 59,400 ³ e Drainage Waters 161 1,000 (1,000) bir Waste Water 163 80 480 bir Waste Water 163 10 (54) Beservoir Cat Creek 164 25 1,155 Reservoir Walker River 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)						
West Walker River 160 1,250² 59,400³ Borainage Waters 161 1,000 (1,000) e Drainage Waters 162 80 480 bir Waste Water 163 10 (54) ee Drainage Waters 163 10 (1,000) bir Waste Water 163 10 (154) Reservoir Rose Creek 165 32 656 Walker River 166 38,000⁴ 2,990,000⁴ voir Walker River 167 950 (13,000)		WAL	KER RIVER BA	NISIN		
West Walker River 160 1,250² 59,400³ B Drainage Waters 161 1,000 (1,000) B Drainage Waters 162 80 480 Bir Waste Water 163 10 (54) Beservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 166 38,000⁴ 2,990,000⁴ Voir Walker River 167 950 (13,000)	Douglas County					
t Drainage Waters 161 1,000 (1,000) e Drainage Waters 162 80 480 sir Waste Water 163 10 (54) eservoir Cat Creek 164 25 1,155 Aeservoir Rose Creek 165 32 656 Walker River 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Topaz Lake	West Walker River	160	1,250 ²	59,400 ³	Irrigation and Recreation
i. Drainage Waters 161 1,000 (1,000) e Drainage Waters 162 80 480 bir Waste Water 163 10 (54) eservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 165 32 656 Walker River 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Lyon County					
e Drainage Waters 162 80 480 bir Waste Water 163 10 (54) eservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 165 32 656 Walker River 166 38,0004 2,990,0004 voir Walker River 167 950 (13,000)	Artesia Lake	Drainage Waters	161	1,000	(1,000)	Terminal Lake
bir Waste Water 163 10 (54) eservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 165 32 656 Walker River 166 38,0004 2,990,0004 voir Walker River 167 950 (13,000)	Beaman Lake	Drainage Waters	162	80	480	Irrigation and Recreation
eservoir Cat Creek 164 25 1,155 Reservoir Rose Creek 165 32 656 Walker River 166 38,000 ⁴ 2,990,000 ⁴ voir Walker River 167 950 (13,000)	Nuti Reservoir	Waste Water	163	10	(54)	Irrigation
Cat Creek 164 25 1,155 Rose Creek 165 32 656 Walker River 166 38,0004 2,990,0004 Walker River 167 950 (13,000)	Mineral County					
rvoir Rose Creek 165 32 656 Walker River 166 38,000 ⁴ 2,990,000 ⁴ Walker River 167 950 (13,000)	Cat Creek Reservoir	Cat Creek	164	25	1,155	Municipal
Walker River 166 38,000 ⁴ 2,990,000 ⁴ Walker River 167 950 (13,000)	Rose Creek Reservoir	Rose Creek	165	32	929	Municipal
Walker River (13,000)	Walker Lake	Walker River	166	38,0004	2,990,000 ⁴	Recreation, Terminal Lake
	Weber Reservoir	Walker River	167	950	(13,000)	Irrigation

¹With 20-inch flashboards, capacity is 290,000 acre feet.

²Nevada's portion of area – remainder (1,050 ac.) in Calfornia.

Total capacity.

 $^{^4}$ Area and capacity at a lake level of 3,970 feet above sea level (1968).

	CEN	CENTRAL REGION	z		Table 6 – Page 8 of 9
Elko County	The Company of the Co				
Steele Lake/Gibbs Lake	Natural Lake	168	9	(30)	Recreation
Overland Lake	Natural Lake	169	20	(120)	Recreation
Robinson Lake	Natural Lake	170	17	(36)	Recreation
Winchell Lake	Natural Lake	171	2	(6)	Recreation
Ruby Lake	Natural Lake	172	000'6	(30,000)	Recreation
Eureka County					
Roberts Creek Reservoir	Roberts Creek	173	10	117	Irrigation
Lander County					
Grove Lake	Kingston Creek	174	17	190	Recreation
Smith Creek Reservoir	Smith Creek	175	25	350	Irrigation
Nye County					
Fish Lake	Drainage Water	176	80	(160)	Terminal Lake
Manzonie Reservoir	Currant Creek	177	40	250	Irrigation
White Pine County					
Bassett Lake	Steptoe Slough	178	120	(1,300)	Recreation and Irrigation
Cave Creek	Steptoe Slough	179	32	784	Recreation
Comins Lake	Steptoe Valley Creek	180	40	290	Irrigation
Bull Creek No. 2	Bull Creek	181	10	51	Irrigation
Spring Valley Wash Dam	Spring Valley Wash	182	64	121	Irrigation
	GREAT	GREAT SALT LAKE BASIN	BASIN		
Elko County					
Crittenden Reservoir	Crittenden Creek	183	230	4,300	Irrigation
Daek Reservoir	Thousand Springs Creek	184	2,909	5,340	Irrigation
23 Mile Reservoir	Thousand Springs Creek	185	652	7,457	Irrigation
White Pine County					
Baker Lake	Natural Lake	186	10	(20)	Recreation
Dead Lake	Natural Lake	187	က	(10)	Recreation
Goshute Reservoir	Chokecherry and Weaver Canyons	188	200	300	Irrigation
Johnson Lake	Natural Lake	189	Ŋ	(25)	Recreation
Silver Creek Reservoir	Silver Creek	190	13	200	Irrigation
Stella Lakes	Natural Lakes	191	Ŋ	(25)	Recreation

	0700	COLORADO RIVER BASIN	SASIN		Table 6 - Page 9 of 9
Name of Reservoir	Stream Name	Map	Surface Area (Ac.)	Capacity (Ac. Ft.)	Remarks
Clark County					
Bowman Reservoir	Muddy River	192	165	4,000	Irrigation
Glassand Pond	Underground	193	16	(23)	Mining
Honey Bee Pond	Muddy River	194	32	(100)	Recreation
Lake Mead 1	Colorado River	195	164,000	29,700,000	Multiple Purpose
Lake Mohave ¹	Colorado River	196	28,200	1,820,000	Multiple Purpose
Lincoln County					
Eagle Valley Reservoir	Spring Valley Creek	197	69	640	Recreation
Echo Reservoir	Spring Valley Creek	198	64	1,400	Recreation
Frenchy Lake	Hiko Spring	199	74	(150)	Recreation
Hiko Lake	Hiko Spring	200	246	(200)	Recreation
Hollinger Debris Basin	Upper Meadow Valley Wash	201	06	640	Flood Control
Lower Pahranagat Lake	Crystal and Ash Springs	202	583	(1,000)	Recreation
Mathews Canyon Reservoir	Mathews Canyon	203	420	12,420	Flood Control
Pine Canyon Reservoir	Pine Canyon	204	354	12,470	Flood Control
Upper Pahranagat Lake	Crystal and Ash Springs	205	370	3,580	Irrigation and Recreation
Nye County					
Dacey Reservoir	Moorman Springs	206	215	784	Recreation
Hay Meadow Reservoir	White River	207	203	1,120	Recreation
Sunnyside Reservoir	Springs and White River	208	791	3,330	Recreation
Tule Field Reservoir	White River	209	218	203	Recreation
White Pine County					
Preston Reservoir	Jakes Valley Wash	210	109	1,271	Stockwater
	2	Miska Vallaka	2		
		I VALLET D	AUCH		
Nye County Lake No. 1	Carson Slough	211	69	243	
Lake "C"	Springs	212	70	618	
		+			

Total area and capacity.



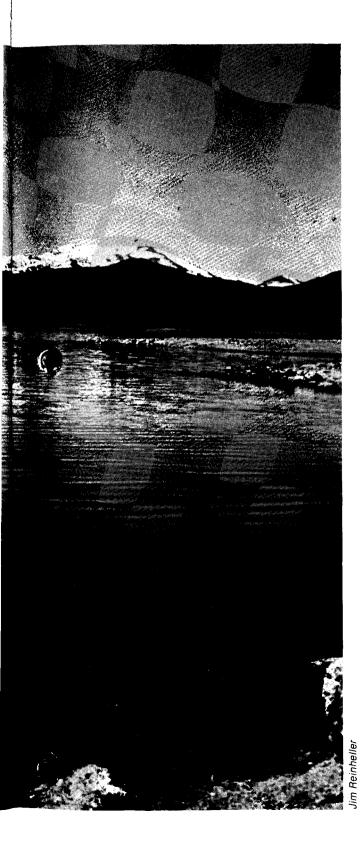
Location	From Area	To Area	1970 Estimated Amount	Primary Use
Surface Source				
BMI, Henderson and LVVWD	Lake Mead	212	34,000 A.F.	Industrial and Municipal
Boulder City	Lake Mead	167,212,213	3,000 A.F.	Municipal
Carson City*	89, 90	104	380 A.F.	Municipał
Incline Village**	06	105	560 A.F.	Sewage Effluent
Las Vegas***	Lake Mead	212	132,000 A.F.	Municipal
Lemmon Valley	87	92	970 A.F.	Municipat
Round Hill Village	06	105	620 A.F.	Sewage Effluent
Spanish Springs V.	87	85	16,000 A.F.	Irrigation
Sun Valley	87	86	350 A.F.	Municipal
Truckee Canal***	83	76,101,102	235,000 A.F.	Irrigation
Virginia City	06 '68	103	190 A.F.	Municipal
Washoe Valley	06	88	2,000 A.F.	Irrigation
Washoe Valley	88	68	2,000 A.F.	Irrigation
Spring Source				
Candelaria Pipeline	117	114	40 A.F.	Industrial
Gerlach	21	22	170 A.F.	Municipal
Montello	191	189	40 A.F.	Municipal
Wendover	192	Utah	260 A.F.	Municipal
Wendover A.F.B.	187	192 & Utah	1,400 A.F.	Municipal and Military
Ground Water Source				
Tonopah	141	137A	330 A.F.	Municipal

^{*}Includes only that portion which comes from Marlette system. **Estimated amount for 1971.

^{***}Denotes first stage level of Southern Nevada Project.

^{****}Estimated average annual amount flowing into area 101, Carson Desert.



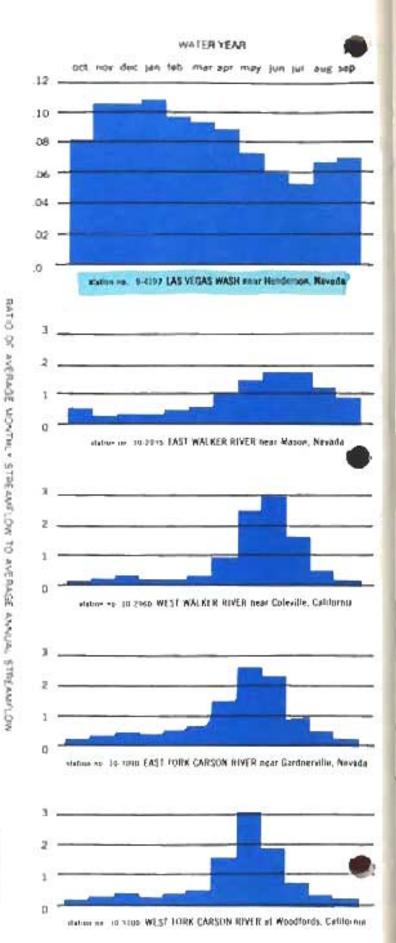


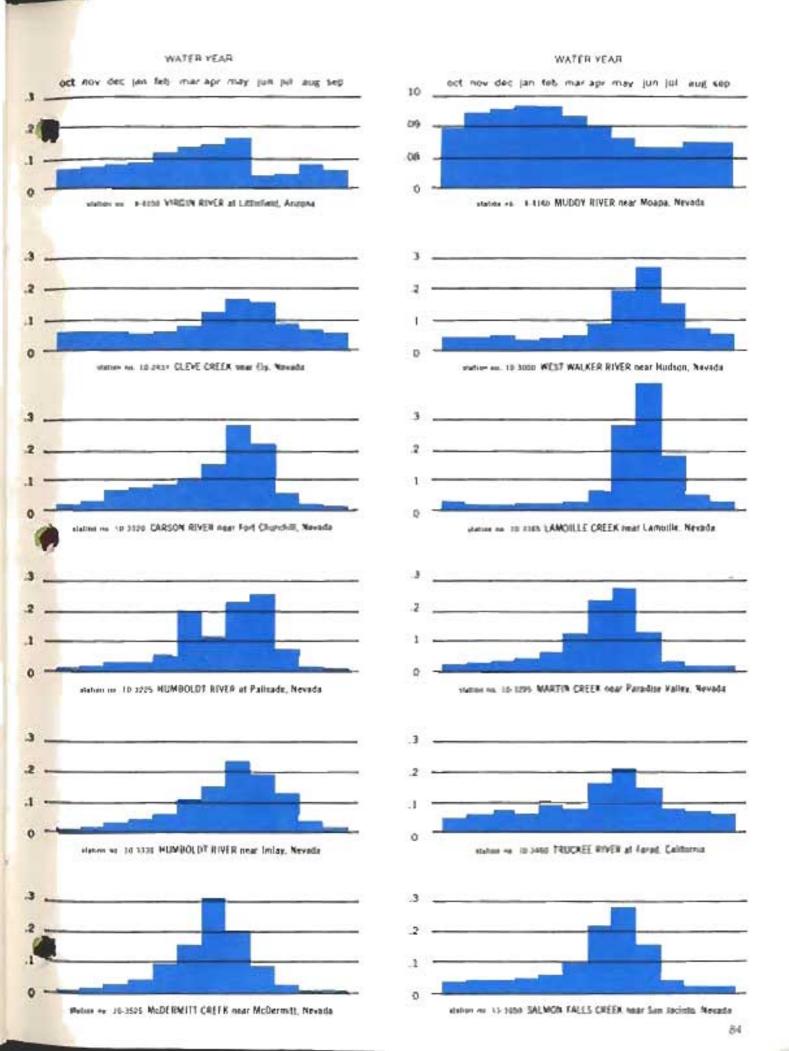
FIGURES

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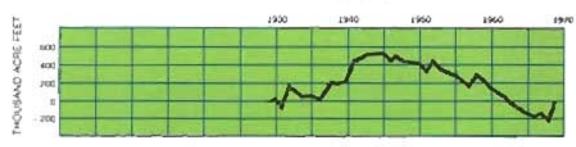
AVERAGE SEASONAL PATTERN OF STREAMFLOW



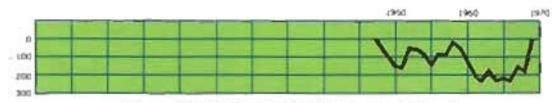




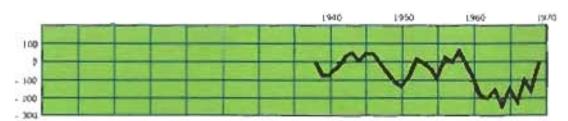
CUMULATIVE DEPARTURE FROM AVERAGE ANNUAL STREAMFLOW



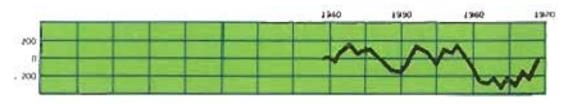
station no. 9-4150 VIRGIN RIVER at Littlefield, Angona



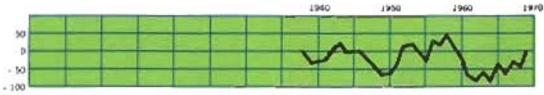
station no. 10-2935 EAST WALKER RIVER near Mason, Nevada



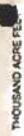
station no 10-2960 WEST WALKER RIVER near Coleville, California

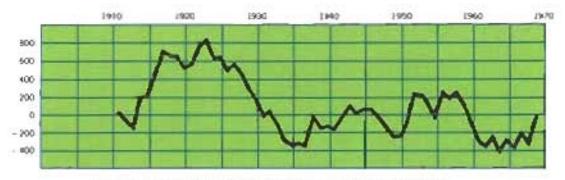


station no. 10-3090 EAST FORK CARSON RIVER near Cardnerville, Nevada

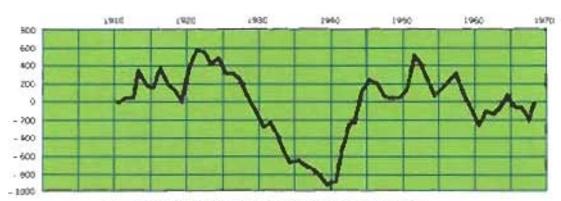


station no. 10-3100 WEST FORK CARSON RIVER at Woodfords, California

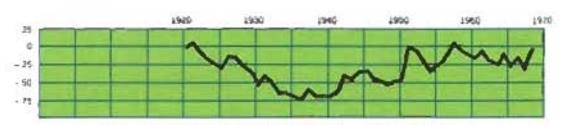




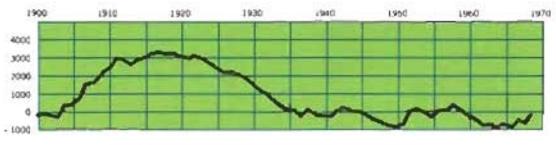
station no. 10-3120 CARSON RIVER near Fort Churchill, Nevada



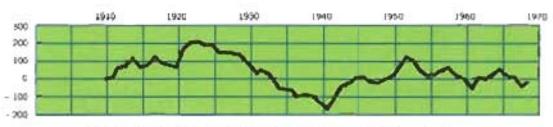
station no. 10-3225 HUMBOLOT RIVER at Palisade, Nevada



station no. 10-3295 MARTIN CREEK near Paradise Valley, Nevada



station no. 10-3460 TRUCKEE RIVER at Farad, California



station no. 13-1050 SALMON FALLS CREEK near San Jacinto. Nevada

