PROPERTY OF
DIVISION OF WATER RESOURCES
BRANCH OFFICE
LAS VEGAS, NEVADA

STATE OF NEVADA

BIENNIAL REPORT

OF THE

STATE ENGINEER

For the Period
July 1, 1950, to June 30, 1952, Inclusive

HUGH A. SHAMBERGER
State Engineer of Nevada

CARSON CITY, NEVADA
STATE PRINTING OFFICE - - JACK MCCARTHY, SUPERINTENDENT
1952

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LETTER OF TRANSMITTAL

STATE OF NEVADA
OFFICE OF STATE ENGINEER,
CARSON CITY, July 24, 1952.

To His Excellency, HONORABLE CHARLES H. RUSSELL, *Governor of Nevada, Carson City, Nevada.*

SIR: In compliance with the provisions of section 14, chapter 140, Nevada Statutes 1913, I have the honor to transmit herewith the Biennial Report of the State Engineer for the period ending June 30, 1952.

Respectfully submitted,

State Engineer.

STATE ENGINEERS SINCE CREATION OF OFFICE

A. E. Chandler	May 29, 1903, to May 1, 1905
Henry Thurtell	May 1, 1905, to May 1, 1907
Frank R. Nicholas	May 1, 1907, to March 8, 1910
Emmet D. Boyle	March 8, 1910, to March 21, 1911
W. M. Kearney	March 21, 1911, to May 15, 1917
J. G. Scrugham	May 16, 1917, to January 10, 1918
Seymour Case	January 25, 1918, to March 28, 1919
J. G. Scrugham	March 28, 1919, to October 7, 1922
Robert A. Allen	October 7, 1922, to March 28, 1927
Geo. W. Malone	March 29, 1927, to May 28, 1935
Alfred Merritt Smith	May 29, 1935, to June 5, 1951
Hugh A. Shamberger	June 6, 1951–

OFFICIAL ROSTER DEPARTMENT OF STATE ENGINEER

OFFICE PERSONNEL

Carson City, Nevada

July 1, 1950, to June 30, 1952

ALFRED MERRITT SMITH[1]	State Engineer
HUGH A. SHAMBERGER[2]	State Engineer
ROBERT S. LEIGHTON[3]	Assistant State Engineer
EDMUND MUTH[4]	Assistant State Engineer
P. N. DONDERO	Deputy State Engineer
J. A. MILLAR[5]	Office Engineer
E. J. DEROCCO[6]	Field Deputy State Engineer
DONALD K. JEWETT[7]	Field and Office Engineer
HERBERT E. WINCHESTER[8]	Underground Water Hydrologist
CHARLES E. THIEX	Office Manager
ALTA C. THIEX[9]	Secretary
NANCY MCGUIRE[10]	Secretary
LORRAINE MATHEWS[11]	Stenographer
ANN E. PRICE[12]	Stenographer
FRANCES RICHARDS	Extra Clerical

WATER DISTRIBUTION PERSONNEL

Las Vegas and Pahrump Artesian Basins

HARRY E. JAMESON, Artesian Well Supervisor	1950–1952

Humboldt River, 1950

GEORGE HENNEN, Supervising Commissioner	Entire River
NELLO ALAZET, Assistant Supervising Commissioner	Entire River
GEORGE B. MOSLEY, Water Commissioner	Entire River
FRANCIS RAY KNICKREM, Water Commissioner	Battle Mountain
JOSEPH O. DAVIS, Water Commissioner	Paradise
GERALD WIGNAL, Gage Reader	Lovelock
LEE GRIENWALD, Commissioner and Hydrographer	Starr Valley, Elko County
MILTON G. VERMILLION, Hydrographer	Salmon River
WALTER REED, Hydrographer	Salmon River
MARION M. PARKER, Stenographer	Elko Office
BETTY ASHTON, Stenographer	Elko Office

[1]Retired June 5, 1951.
[2]Assistant State Engineer, July 1, 1950, to June 5, 1951; Appointed State Engineer, June 6, 1951.
[3]Appointed August 20, 1951; Resigned February 29, 1952.
[4]Special Deputy State Engineer, July 1, 1950, to February 28, 1952; Appointed Assistant State Engineer March 1, 1952.
[5]Retired April 30, 1951.
[6]Field and Office Engineer, July 1, 1950, to February 15, 1952; Appointed Field Deputy State Engineer, February 16, 1952.
[7]Appointed May 1, 1952.
[8]Appointed October 22, 1951.
[9]Stenographer July 1, 1950 to June 5, 1951; Appointed Secretary June 6, 1951.
[10]Resigned June 30, 1951.
[11]Resigned July 31, 1951.
[12]Appointed June 20, 1951.

Humboldt River, 1951

GEORGE HENNEN, Supervising Commissioner	Entire River
NELLO ALAZZI, Assistant Supervising Commissioner	Entire River
GEORGE B. MOSLEY, Water Commissioner	Entire River
FRANCIS RAY KNICKREM, Water Commissioner	Battle Mountain
ALBERT ORDE, Water Commissioner	Lamoille, District
HARRY FORCIER, Water Commissioner	Little Humboldt and Humboldt
ERNEST MILLER, Water Commissioner	Little Humboldt
STUART F. TRASKET, Water Commissioner	Humboldt
GERALD WIGNAL, Gage Reader	Lovelock
RALPH WESTAGARD, Gage Reader	Lovelock
LOUIS SEVER, Gage Reader	Palisade
BETTY ASHTON, Stenographer	Elko Office
THELMA COBB, Stenographer	Elko Office

Humboldt River, 1952

GEORGE HENNEN, Supervising Commissioner	Entire River
GEORGE B. MOSELEY, Assistant Supervising Commissioner	Entire River
COLE ACKER, Water Commissioner	Little Humboldt
DELYLE DANNER, Water Commissioner	Humboldt
THOMAS J. SMALES, Hydrographer	Elko District
MRS. C. L. CURRY, Gage Reader	Palisade
THELMA COBB, Stenographer	Elko Office

Duckwater and Currant Creeks, 1950–1952

JOHN RUTHERFORD, Water Commissioner	Entire District

Muddy River, 1950–1951

CLARENCE A. LEWIS, Water Commissioner	Entire District

Muddy River, 1952

CLARENCE A. LEWIS, Water Commissioner	Entire District
WENDELL E. HUTCHINGS, Water Commissioner	Entire District

Pahranagat Lake, 1950–1951

ALTON BINGHAM, Water Commissioner	Entire District

Pahranagat Lake, 1952

CLAYTON WADSWORTH, Water Commissioner	Entire District

Baker and Lehman Creeks, 1950–1951

HARRY E. HOSSELKUS, Water Commissioner	Entire District

White River, 1950

BILL HENDRIX, Water Commissioner	Entire District

SUMMARY OF THE WORK OF THE STATE ENGINEER

STATE COMMISSIONS AND BOARDS

The State Engineer, upon taking office, automatically becomes a member of the following Commissions:

1. The Nevada Public Service Commission.
2. The Nevada State Irrigation District Bond Commission.
3. The Nevada State Planning Board.
4. The State Range Commission.

RECLAMATION ORGANIZATIONS

1. The Association of Western State Engineers.
2. The National Reclamation Association.
3. Colorado River Water Users Association.
4. The Nevada State Reclamation Association.

STATUS OF ADJUDICATION OF STREAM SYSTEMS

The work of adjudicating the waters of the Nevada Stream Systems has proceeded since the inception of this office in 1903 to the present time:

1. Stream systems adjudicated, 1903 to date	39
2. Acres under adjudicated streams	389,199
3. Vested water users under adjudicated streams	621
4. Adjudicated stream systems supervised by this office during the past biennium	8
5. Adjudicated stream systems not supervised by this office during the past biennium	31
6. Streams in process of adjudication	9
7. Adjudications completed during past biennium	6
8. Stream systems on which decrees have been entered by civil suit not under supervision of this office	10
9. Stream systems adjudicated by United States District Court	4
10. Stream systems under process of adjudication by United States District Court	1

STATUS OF WATER APPLICATIONS AND PROOFS OF APPROPRIATION

1. Water applications filed, 1903 to June 30, 1952	14,381
2. Water applications acted upon, 1903 to June 30, 1952	13,891
3. Water applications on which no action has been taken	490
4. Water applications acted on, July 1, 1950, to June 30, 1952	935
5. Water applications filed, July 1, 1950, to June 30, 1952	950
6. Proofs of commencement of work filed, July 1, 1950, to June 30, 1952	443
7. Proofs of completion of work filed, July 1, 1950, to June 30, 1952	403
8. Proofs of beneficial use filed, July 1, 1950, to June 30, 1952	372
9. Protests filed against the granting of applications, July 1, 1950, to June 30, 1952	259

10. Certificates of appropriation issued under permitted water rights, July 1, 1950, to June 30, 1952 332
11. Proofs of appropriation filed, 1903 to June 30, 1952 2,387
12. Proofs of appropriation filed, July 1, 1950, to June 30, 1952 28

COOPERATIVE WORK

The State Engineer also carries on cooperative work in stream gaging, snow survey, and ground-water studies through three State appropriations. The cooperating agencies are:

The Water Resources Branch of the United States Geological Survey. Under this agreement the stream gaging and ground-water study programs are under two separate cooperative programs.

The Soil Conservation Service and the Nevada Agricultural Experiment Station relative to water supply forecasting and irrigation investigations.

Reports on this cooperative work are related under their proper headings elsewhere.

PUBLIC SERVICE COMMISSION

The Nevada Public Service Commission is composed of the following members:

Robert A. Allen, Chairman, Carson City.
Charles V. Williams, Member, Yerington.
Hugh A. Shamberger, Ex Officio Member, Carson City.
Lee S. Scott, Secretary, Carson City.

The work of this commission is published by the chairman in a biennial report. During the past biennium many hearings have been held in various parts of the State on matters concerning rate schedules of public utilities, rail and motor carriers, complaints as to public service, and requests for certificates of convenience and necessity for the operation of public utilities.

THE STATE IRRIGATION DISTRICT BOND COMMISSION

The State Irrigation District Bond Commission was created by an Act of the Legislature approved February 26, 1921, being sections 8217–8228, Nevada Compiled Laws 1929. The commission consists of the following members:

Charles H. Russell, Governor of Nevada.
Grant L. Robison, Bank Examiner.
Hugh A. Shamberger, State Engineer.

It is the duty of the commission to pass upon the eligibility of bonds of irrigation districts as legal investment within Nevada.

THE STATE RANGE COMMISSION

This commission consists of the following members:

Charles H. Russell, Governor of Nevada.
Robert A. Allen, Chairman, Public Service Commission.
Hugh A. Shamberger, State Engineer.

The 1929 Legislature created the "State Range Commission" for the purpose of determining the principles, laws, or policies that should

apply to the grazing use of the natural range forage resources of publicly owned lands within Nevada.

The work of this commission has been dormant, since the major part of the range area in Nevada has come under the supervision of the Taylor Grazing Division of the Department of the Interior. It should be noted, however, that in the areas not within Division of Grazing Districts the State Engineer bases decisions and makes rulings on water filings according to the Nevada Stockwatering Act of 1925.

NOTE: The State Range Commission was abolished by Assembly Bill No. 46, Chapter 34, 1951 Statutes.

BIENNIAL REPORT OF STATE ENGINEER 1950–1952

ACKNOWLEDGEMENTS AND RECOMMENDATIONS

ACKNOWLEDGEMENTS

The work of this office requires close association with many State and Federal agencies. The fine cooperation that we have received from these agencies and departments is reflected in the accomplishments of this office. Acknowledgements and sincere thanks are extended to the following agencies:

Soil Conservation Service.
U. S. Extension Service.
Nevada State Experiment Station.
Farmers Home Administration.
United States Geological Survey.
United States Indian Service.
United States Weather Bureau.
Bureau of Land Management.
United States Forest Service.
U. S. Bureau of Reclamation.
U. S. Corps of Engineers.
Federal Power Commission.
Nevada State Farm Bureau.

I am appreciative of the assistance given to us by Governor Charles H. Russell and Attorney General W. T. Mathews and their able staffs, as well as to other State departments.

Acknowledgements and thanks are also extended to our Representatives in Congress—Senator Pat McCarran, Senator George W. Malone, and Congressman Walter S. Baring—who are often called upon for aid and counsel.

On June 5, 1951, Alfred Merritt Smith retired from State work after some 16 years as State Engineer. It was my pleasure to work with "Tom" Smith as his deputy and assistant during those years, and I especially want to pay tribute to him here for his fine leadership and guidance during this long period of time.

On May 31, 1952, J. A. (Archie) Millar retired from this office after some 30 years of valuable service to the State.

I also wish to express my appreciation to my present staff for their untiring work.

RECOMMENDATIONS

Ground Water Law

Section 7a of the Ground Water Law should be amended to provide that well drillers as a prerequisite to obtaining a license to drill wells furnish a bond to guarantee proper compliance with the law.

Additional Assistance

In line with the "Water Resources Study," as outlined in Chapter VII, the Legislature should consider the advisability of making it possible for the State Engineer to obtain the services of a hydrologist who would work solely on this program.

Snow Surveys

It is recommended that the appropriation for the cooperative snow survey program be increased one thousand dollars a year.

Cooperative Ground-Water Studies

This program has been under way for several years and a great deal of progress has been made. It is recommended that this program be continued.

Cooperative Stream Measurement Work

This program has been underway for many years and its importance constantly increasing. The appropriation should be increased in line with the increase of costs.

Stock-Watering Act; Nevada Range Law

In view of the fact that practically all of the public domain is now under direct administration of Federal Agencies, consideration should be given by the Legislature towards amending the Stock-Watering Act (Chap. 201, Stats. 1925), and the Nevada Range Law (Chap. 226, Stats. 1931).

CHAPTER I

Objectives and General

OBJECTIVES

The objectives of this biennial report are:

(1) An accounting by the State Engineer to the Governor, the State Legislature and citizens of the State, his stewardship of the department for the biennial period;

(2) To present in condensed and concise form all essential data pertaining to water resources that have been recorded during the period;

(3) To familiarize the public with various duties and activities of the office of State Engineer;

(4) To perpetuate for future reference a resume of activities of the department that may not be permanently recorded in any other manner, and

(5) To itemize and describe problems affecting the proper utilization of the water resources and recommendations for the solution of such problems.

GENERAL

The office of State Engineer was created by Legislative Act in 1903, primarily for the purpose of providing a statutory procedure for the determination and regulation of existing water rights. In 1905 the Legislature provided a statutory procedure by which future water rights could be acquired and perfected by application to the State Engineer for permission to appropriate and apply water to beneficial use. The primary duty of this office then was the adjudication of vested water rights, the administration of the distribution of such waters, and the processing of applications to appropriate water. The work of this office has, within the past 10 years, been greatly increased, some in part by additions to the water law such as the Ground-Water Act, and some by its own initiative in attempting to develop the conservation and utilization of our water and land resources. A brief digest of the work of this office during the biennium is herewith given:

APPLICATIONS TO APPROPRIATE WATER—RELATED DOCUMENTS

A summary of the applications to appropriate water filed during the 1950–1952 biennium is covered in Appendix 3. To indicate the volume of work handled, a summary of the documents filed during the past four bienniums is herewith given:

	1941–1942	1946–1948	1948–1950	1950–1952
Applications filed	487	895	912	950
Protests filed	101	328	375	259
Proofs of appropriation filed	4	20	0	28
Proofs of commencement filed	241	349	350	443
Proofs of completion filed	175	290	450	403
Proofs of beneficial use filed	154	283	364	372
Certificates of appropriation	160	188	340	332

DISTRIBUTION OF WATER

Distribution of water under court decrees was handled by this office on the following streams during the 1950–1952 biennium:

Humboldt River.	Duckwater Creek.
Little Humboldt River.	Currant Creek.
Baker and Lehman Creeks.	Pahranagat Lakes.
White River.	Muddy River.
Virgin River.	Quinn River.
Thousand Springs Creek.	

A summary of this work is given in Chapter IV.

GROUND-WATER WORK

The 1951 Legislature provided money for the State Engineer to employ a ground-water hydrologist whose work would primarily be concerned with ground-water problems throughout the State. The addition of this personnel to the State Engineer's staff has aided materially in the work of this office. The cooperative program with the U. S. Geological Survey, Ground-Water Division, has been continuing and a report of this cooperative work is given in Chapter VI. During the past biennium there has been a great increase in ground-water development for irrigation purposes and many intricate problems are continually before us.

WELL DRILLERS

The Ground-Water Act of 1939, as amended in 1947, provides for the licensing of well drillers and the submission of well logs. During the fiscal year of 1951 there were 94 well drillers licensed. Since July 1, 1947 there have been 2,200 well logs filed, of which 904 were filed during the 1950–1952 biennium.

HUMBOLDT RIVER STUDY

The 1948–1950 Biennial Report described this study that was being carried on by legislative request. The study has now been completed and a report prepared and printed. Copies of this report are available upon request.

SUPERVISION OF DAMS

The 1951 Legislature supplemented the water law by adding thereto sec. 77½ providing for the supervision by the State Engineer on the construction of dams and the regulation thereof. Rules and regulations concerning this section have been prepared and printed and can be obtained from the Office of State Engineer.

WATER RESOURCES STUDY

The Office of State Engineer has embarked on a rather comprehensive program of inventoring our water resources and all statistical data relative to our water resources. Details of this program are given in Chapter V.

COOPERATIVE FEDERAL AGENCIES

The Office of State Engineer is carrying on cooperative programs with agencies of the Federal Government. These programs are:

Ground Water Studies (*See* Chapter VI).
Surface Water Gaging Programs (*See* Chapter VII).
Snow Surveys (*See* Chapter VIII).
Irrigation Studies (*See* Chapter IX).
Water Resources Program (*See* Chapter V).

IRRIGATION STUDIES—COLUMBIA RIVER BASIN

A cooperative program between the Soil Conservation Service and State Engineer was undertaken to determine the present consumptive use of water within the Columbia River watershed in Nevada. Also, to determine the acreage of irrigated lands as well as lands that could be irrigated. A progress report on this study is given in Chapter IX.

NEVADA WATER CONFERENCE

Starting in 1946 the State Engineer has been sponsoring yearly water conferences. At such conferences, all Federal and State Agencies concerned with water matters are invited to present a resume of their work in Nevada during the past year, as well as their plans for the coming year. In addition, round-table discussions are had on subjects of current interest to the water users and agencies dealing with water problems.

Copies of the proceedings of the Sixth Nevada Water Conference held September, 1951, are available, as well as proceedings of most of the earlier conferences.

The annual date for such water conference has been set for the last Thursday and Friday of each September.

The cooperation of the various interested agencies is to a very large measure responsible for the success of this conference.

CHAPTER II

Applications for Water Rights

During the biennium covered by this report, 950 applications to appropriate water were filed. During the 1948–1950 biennium, 912 applications were filed which was an all-time high. Protests to the granting of permits were filed on 119 applications. During the biennium, 74 rulings were issued covering 124 protested applications.

Office receipts during the 1950–1952 biennium amounted to $46,947.13. The receipts during the 1948–1950 biennium were $39,002.00; during the 1946–1948 period the receipts were $27,541.00; and during the 1944–1946 biennium the receipts amounted to $15,680.00.

Some 935 applications were acted upon during the 1950–1952 period. This represents action on 392 applications filed during this biennium and 543 filed prior to July 1, 1950.

Of the 950 applications filed during this period, 631 were to appropriate ground water, mainly for irrigation purposes. Many of these ground-water applications were filed to support desert land entries in Amargosa, Pahrump, Mesquite and Railroad Valleys in Nye County. Land unsuitability, as well as water limitations, will cause the withdrawal or denial of many of these.

MANNER OF USE COMPARISON

	1950–1952	1948–1950	1946–1948	1944–1946	1942–1944
Irrigation	615	503	328	159	96
Mining and milling	52	49	56	28	26
Stockwater	145	239	329	179	104
Domestic	18	36	54	13	7
To change point of diversion, etc.	53	55	43	27	26
Municipal	4	15	5	10	9
Power	1	5	8	1	
Fish rearing	1	14	8	5	
Manufacturing		2	5	1	3
Quasi-municipal	65	54	57	61	19
Others*	16		2	3	3
Totals	950	912	895	487	293

*Includes railroad, bathing, recreational, gravel washing, etc.

Pertinent information regarding water applications filed in this office since its creation will be found on page 9. The status of applications and certificates issued will be found under the following chapters:

1. Status of applications filed during the biennium, 1950–1952—Appendix 3.
2. Status of applications filed prior to July 1, 1950 upon which action has been taken during the past biennium—Appendix 4.
3. Certificates issued under permits during the 1950–1952 biennium—Appendix 5.

CHAPTER III

Adjudication of Water Rights

Section 1, Chapter 4, Statutes of 1903, provided a law creating the Office of State Engineer and furnished a method for the determination of the relative rights in and to waters already appropriated. Several amendments were subsequently made, with the result that our water law is now admirably adapted to conditions in Nevada, and has been declared constitutional in its entirety by decisions rendered by the Supreme Court of Nevada.

Amendatory Acts were passed during the 1907 and 1909 sessions of the Legislature. In 1913 a new water law was enacted and the old water law repealed in its entirety. The new law was approved on March 22, 1913. Under this Act the water law was greatly broadened, both as to the adjudication procedure on the determination of vested rights and the appropriation of water procedure by application to the State Engineer. Subsequent amendments to the laws relating to the adjudication procedure were enacted in the following sessions of the Legislature, viz., 1915, 1917, 1919, 1921, 1925, 1931, 1933, and 1937. A brief description of these various amendments may be found in Chapter 6 of the 1936-1938 Biennial Report, wherein a summary of the laws enacted by the Nevada Legislature relating to water and the Office of State Engineer is given. The statutory procedure to determine the relative rights in and to the waters of a stream system under a claim of vested right is set forth in sections 18 to 58 of the water law. A summary of this procedure may be found on page 65 of the 1952 *Compiled Water Laws of Nevada* which is available upon request.

PROOFS OF APPROPRIATION FILED DURING THE YEARS OF THE PRESENT BIENNIUM

During this period the following proofs of appropriation, which are claims of vested water rights, have been filed for future use in the determination of the relative rights and also to make a record of such claims. A condensed statement giving the salient data is herewith given in the order of:

1. Proof serial number.
2. Date filed.
3. Name of claimant.
4. Source of water supply.
5. Location by county.
6. Use claimed.

02362 8-25-50 John J. Casey; Stone Cabin Creek; Nye; stockwater.
02363 8-25-50 John J. Casey; Well No. 1 in Cactus Flat; Nye; stockwater.
02364 8-25-50 John J. Casey; Well No. 2 in Cactus Flat; Nye; stockwater.
02365 8-25-50 John J. Casey; Twin Mills Well; Nye; stockwater.
02366 8-25-50 John J. Casey; Well No. 3 in Cactus Flat; Nye; stockwater.
02367 8-25-50 John J. Casey; Stinking Spring; Nye; stockwater.
02368 8-25-50 John J. Casey; Fork Reservoir; Nye; stockwater.
02369 8-25-50 John J. Casey; North Antelope Reservoir; Nye; stockwater.
02370 8-25-50 John J. Casey; Antelope Reservoir; Nye; stockwater.
02371 8-25-50 John J. Casey; Nixon Water Hole No. 1; Nye; stockwater.
02372 8-25-50 John J. Casey; Nixon Water Hole No. 2; Nye; stockwater.
02373 8-25-50 John J. Casey; Tunnel Spring; Nye; stockwater.
02374 8-25-50 John J. Casey; Rose or Wild Horse Spring; Nye; stockwater.
02375 1-28-51 John J. Casey; Corral Spring; Nye; stockwater.
02376 1-29-51 John J. Casey; Silver Bow Spring; Nye; stockwater.

02377 1-29-51 John J. Casey; Broom Spring; Nye; stockwater.
02378 1-29-51 John J. Casey; Beatty Spring; Nye; stockwater.
02379 1-29-51 John J. Casey; Haws Creek Spring; Nye; stockwater.
02380 1-29-51 John J. Casey; Midway Well; Nye; stockwater.
02381 2-14-51 William and Elizabeth S. Babe; Bark Creek and Tributaries; Douglas; Irrigation.
02382 2-14-51 William and Elizabeth S. Babe; Folsom Springs and Trib.; Douglas; Irrigation.
02383 2-26-51 John J. Casey; Liberty Spring; Nye; stockwater.
02384 2-26-51 John J. Casey; Pole Reservoir; Nye; stockwater.
02385 4-12-51 John J. Casey; Reservoir No. 2; Nye; stockwater.
02386 4- 3-52 U. S. in Trust for certain Indians, Nevada Indian Agency; Idlewild Creek; Nye; stockwater.
02387 4- 3-52 U. S. in Trust for certain Shoshone Indians; Sunnyside Wash; Nye; stockwater.

ADJUDICATIONS IN PROCESS DURING BIENNIUM

KALAMAZOO CREEK

Kalamazoo Creek is located on the easterly slope of Sheel Creek Range in White Pine County, in and about Township 20 N., Range 66 E., M. D. B. & M. There are two claimants to the waters of this source, namely, B. H. Robison and George H. Eldridge.

January 20, 1948—Claimant B. H. Robison filed Exceptions to Order of Determination.

FRANKTOWN CREEK

Franktown Creek is located just westerly of Washoe Lake in Washoe County. Its source is the drainage on the easterly slope of the Sierra Nevada Mountains into Little Valley. There are some nine claimants who have consolidated their water rights by forming the "Franktown Creek Irrigation Company."

June 12, 1949—Petition by Franktown Creek Irrigation Company requesting the determination of the relative rights in and to the waters of Franktown Creek.

November 7, 1951—Report of field investigation filed.

November 7, 1951—State Engineer entered Order Granting Petition.

February 18, 1952—Notice of Order and Proceedings to Determine Water Rights.

NEWTON CREEK

Newton Creek forms on the westerly slope of the Washoe Mountains and flows westerly through the northeasterly portion of T. 17 N., R. 20 E.

September 10, 1948—Petition filed by Mary Wright Bain through her agent, Robert F. Guinn, requesting an adjudication and determination of the relative rights of the waters of Newton Creek and tributaries.

June 19, 1951—Report of field investigation filed.

June 20, 1951—Order of State Engineer Granting Petition.

June 21, 1951—Notice of Order and Proceedings to Determine Water Rights.

EGAN CREEK

Egan Creek heads in several springs on the west side of Telegraph Mountain in the Egan Range, White Pine County. It flows eastward into Steptoe Valley.

March 20, 1950—Petition filed by claimant, K. A. Barton, through his attorney, W. Howard Gray, to determine the relative rights of the various claimants to the waters of Egan Creek and tributaries.

June 2, 1950—Report of field investigation filed.

June 5, 1950—State Engineer entered Order Granting Petition.

October 2, 1951—Notice of Order and Proceedings to Determine Water Rights.

SOLDIER CREEK AND TRIBUTARIES

Soldier Creek and tributaries, including Mud Meadows, Donnelly Creek, artesian wells and other springs are located in the southwestern portion of Humboldt County. Soldier and Mud Meadows Creeks' system heads in the Black Rock Range approximately five miles southwest of Summit Lake. Mud Meadows lies directly below Soldier Meadows. Donnelly Creek heads on the west side of the valley and flows easterly into the valley.

August 13, 1951—Petition filed by Vern Parman, Ralph Parman and George Schadler requesting an adjudication of the relative rights to the waters of Soldier and adjacent streams.

February 11, 1952—Report of field investigation filed.

February 11, 1952—State Engineer enters Order Granting Petition.

LAST CHANCE, OPHIR, WISCONSIN AND SUMMIT CREEKS

These creeks head in the Toiyabe range in Nye County and flow to the east into Big Smoky Valley.

September 15, 1951—Petition filed by Will J. Farrington requesting a determination of the relative rights in and to this stream system.

October 18, 1951—Report of field investigation filed.

October 24, 1951—State Engineer enters Order Granting Petition.

October 26, 1951—Notice of Order and Proceedings to Determine Relative Rights.

NORTH AND SOUTH TWIN RIVERS

The Twin Rivers head in the Toiyabe mountain range in Nye County and flows in a northeasterly direction to the Big Smoky Valley.

September 15, 1951—Petition field by Will J. Farrington to determine relative rights in and to the waters of this stream system.

October 18, 1951—Report of field investigation filed.

October 24, 1951—State Engineer enters Order Granting Petition.

October 26, 1951—State Engineer gives Notice of Order and Proceedings to Determine Water Rights.

HOT CREEK

Hot Creek heads in the Hot Creek Range, Nye County, and flows southeasterly into Hot Creek Valley.

September 25, 1951—Petition filed by Victor J. Barndt, Elizabeth M. Crause, Sophie C. Cochran and Agnes M. Redenbaugh to determine the relative rights in and to Hot Creek and tributaries.

SWALLOW CREEK

Swallow Creek heads on the westerly slope of the Snake Range in White Pine County and flows westerly into Spring Valley.

September 21, 1951—Petition filed by Albin C. Kirkeby to determine the relative rights in and to the waters of Swallow Creek.

CHAPTER IV

Water Distribution

One of the principal duties of the State Engineer is to direct the distribution of the waters of the streams in the State according to the rights which have been allotted to the various claimants by court decrees. The cost of the actual distribution is borne by the water users on the stream system and only incidental administrative costs are paid for from State appropriations.

Stream flow records and irrigation water supplies are kept on a "water year" basis, the water year being from October 1 to the following September 30. Assuming that storage facilities are available this 12-month period represents the total water supply available for irrigation use during the irrigation season.

Since the water year and irrigation season do not conform to the fiscal year reporting it should be remembered that the following resume of the distribution of water throughout the State is on an irrigation season or water-year basis, and not a fiscal-year basis.

HUMBOLDT WATER DISTRIBUTION DISTRICT

Since January of 1947 the State Engineer has maintained a district water distribution office in Elko, Nevada. The area served by this office comprises Elko, Humboldt, Pershing and the north portions of Lander and Eureka Counties.

During the past biennium active work has been carried on on Thousand Springs Creek, Salmon River, Little Humboldt River and the Humboldt River.

THOUSAND SPRINGS CREEK

A limited study of the Thousand Springs Creek stream system was made during the 1951 irrigation season. The State Engineer was requested to distribute the water between the claimants according to the respective rights fixed in the 1929 court decree. It was found that the physical condition of the channel was such that water distribution was not possible. Before the waters can be properly distributed, headgates and measuring devices must be placed in all the diverting ditches and a great deal of work done on the stream channels to prevent uncontrolled diversion and flooding.

After determining that no satisfactory water distribution could be made, a water inventory study was started. Twelve staff gages were installed at selected sites and a record of the stream flow at these points was kept between March 21 and June 30 when the flow at all stations had practically ceased. Prior to March 21 there had been a heavy runoff which may have exceeded in volume the total flow measured during the recorded period. This early flow was retained in the "23 Mile Reservoir" which was rebuilt in 1950 after having been destroyed during the flood of February 21 to 28, 1943.

SALMON RIVER

No water studies were made on the Salmon River stream system during 1951 or 1952; however, the State Engineer, through the Hum-

boldt District, completed a water supply study during the 1950 irrigation season.

The State Engineer has been an active participant in the negotiations between the Nevada and Idaho water users to amicably settle their water controversy. An agreement has been reached and now is in its final stages of ratification. This agreement is a great step forward in the use of water and presents a new concept in settling water controversies.

LITTLE HUMBOLDT RIVER

Routine water distribution has been carried on on the Little Humboldt River stream system. For the most part there have been adequate water supplies during the past biennium to serve the irrigation needs. Extreme flood conditions during 1952 caused extensive damage to some farm land and to many of the irrigation structures. The full extent of the damage is not yet known. A full investigation will be made during the fall of 1952.

The U. S. G. S. gaging station on Cottonwood Creek was discontinued during 1951 because of a shortage of funds. Staff gage readings have been taken regularly during 1952 and will give some record of the 1952 floods.

Flood waters during the spring of 1952 were impounded in "Gumboot Lake" and caused considerable damage because of the backwater inundating and subing back into the farm lands. The recent high water showed the necessity of some type of outlet to the lake to prevent a reoccurrence of the damage.

HUMBOLDT RIVER

There have been adequate supplies of irrigation water on the Humboldt system during the past biennium. Some local shortages of water for stockwatering purposes occurred during the late summer months; however, in most instances, through close regulation it was possible to supply the water needed.

Priority charts on the entire Humboldt River have been prepared and checked for accuracy. An individual file has been prepared for each ranch property within the Humboldt Water Distribution District. This file will eventually contain all the pertinent information as to water supply and water delivered to the ranch.

Three additional recording stations have been established, two in Lamoille Valley on Thorpe and Talbot Creeks and the other on Rabbit Creek. These gages are used for distribution work as well as to obtain a record of water supply. Some additional recording stations are needed and will be established as time and funds permit. Fifteen or twenty staff stations have been established and periodic measurements are being made and discharge curves developed for each station. Stream-flow records are being compiled from the staff gage readings.

A report on the 1952 flood on the Humboldt River will be prepared and published as soon as the data can be collected and compiled.

CURRANT AND DUCKWATER CREEKS

Currant and Duckwater Creeks are regulated by the same water commissioner and have for years been considered more or less as a

unit. The administration costs, however, are assessed on the basis of the actual time and expense incurred in direct regulation of each stream.

For several years the State Engineer has carried on a program of having measuring devices installed and improving water diversion structures on both streams. This program will be completed this year. Some flood damage to the irrigation works on Currant Creek, due to the high water in the spring of 1952, has been reported. The extent of this damage is not known.

MUDDY RIVER

A field investigation was made on the upper Muddy River to determine what was needed to efficiently and properly distribute the water on the stream system. The investigation disclosed the need for measuring devices on the ditches, channel cleaning in some stretches of the stream, reconstruction of the Indian "tail ditch" and a more satisfactory type of diversion structure at some of the diversion points. The program has been discussed with the directors of the Muddy Valley Irrigation Company, and while nothing has been done to date, the greater portion of the required work should be completed during the coming biennium.

PAHRANAGAT LAKES

During the past few years the water users in Pahranagat Valley have made many major improvements to their irrigation systems. During the past biennium the Richardsville Ditch has been concrete lined (*See* 1948–1950 Biennial Report) and a four-foot Parshall flume was placed in the main channel below Reader Lake. The flume submerged during high water and will have to be reset during the coming year for proper operation.

It is expected that the long delayed work at Ash Springs will be started during the coming year. The proposed program will consist of regulatory works for lowering the spring pond so that cleaning can be done at regular intervals. Upon completion of this work the program of improvement, started some five years ago, will be completed.

BAKER-LEHMAN CREEKS

Stream flow records on Baker and Lehman Creeks are being obtained through the cooperation of the State of Utah, State of Nevada, and the U. S. Geological Survey. In addition, the State Engineer is obtaining twice daily staff gage readings at the Mt. Wheeler Ranch Parshall flume. From these records the loss of water is being determined as it is conveyed down the Baker Creek fan.

The installation of a small hydro-electric plant at Baker is still being actively considered under an R. E. A. program. If this project materializes, it should be of considerable benefit to the water users by preventing a large part of the present water losses.

VIRGIN RIVER—Clark County, Nevada

A "lower basin" tributary to the Colorado River, the Virgin River, has its source in southwestern Utah, flows a few miles through the northwest corner of Arizona and enters Nevada near the town of Mesquite and empties into Lake Mead.

The Virgin River Valley in Nevada is narrow and much of the flood plain cannot be utilized because of the shifting of the stream from one side of the valley to the other. If it was possible to stabilize the stream bed and supplement the late-summer stream flow, several thousand acres of land could be placed in cultivation. At present there are no active plans for any reclamation in this area.

The U. S. Department of the Interior, Bureau of Reclamation, has issued two reports covering the Virgin River in the States of Nevada, Utah and Arizona. The first report entitled "The Colorado River" is a comprehensive report on the entire Colorado River system and was released in March, 1946. Pages 181 to 187, inclusive, cover the Virgin Division which includes the Virgin River. Following this comprehensive report, a project planning report entitled, "The Dixie Project, Utah" was prepared and released in November, 1949. This report is now being revised and should be available for study within the next few months.

Nevada's concern over the proposed Dixie Project is principally with the time of flow and quality of the water that would be available to its water users under project operating conditions. The farming communities of Mesquite and Bunkerville obtain their irrigation water from the Virgin River, and while their supply of summer irrigation water would not be affected by the project (as it comes from springs rising below the project area), their spring season supply would be materially changed both in quantity and quality. Because of the poor quality of the summer irrigation water, large quantities of salts accumulate in the soil and unless sufficient water of good quality is available in the spring to wash out the salt accumulation of the previous year, the land would soon become useless.

In cooperation with the Mesquite and Bunkerville Irrigation Companies, the Nevada Colorado River Commission, the U. S. Geological Survey, and the Soil Conservation Service, the State Engineer has instituted a water supply and water quality study in the Virgin River area in Nevada. Two 4-foot Parshall flumes, equipped with water stage recorders, have been placed in the Bunkerville and Mesquite canals to determine the amounts and periods of use of water. These records will be published in U. S. G. S. water-supply bulletins. From these studies it should be possible to determine the water supply necessary to protect Nevada's farm lands in the event that the Dixie Project in Utah is constructed.

CHAPTER V

Nevada Water Resources Study

The need for an inventory of the water resources of Nevada has long been felt. Our basic industries are agriculture, stock raising, and mining. The future growth of these industries will depend on our water and land resources and how we use them. The actual task of making such a study and inventory would ordinarily require adequate appropriations to enable the State Engineer to employ the necessary personnel and expenses incidental thereto. In many States boards and commissions have been established by legislative Acts with sufficient appropriation to carry out such detailed work. Although the State Legislature may, at some future time, see fit to appropriate money for such work, it has been felt by the State Engineer that a method should be developed whereby such a program could be initiated and carried out by other means even though the progress may be slow.

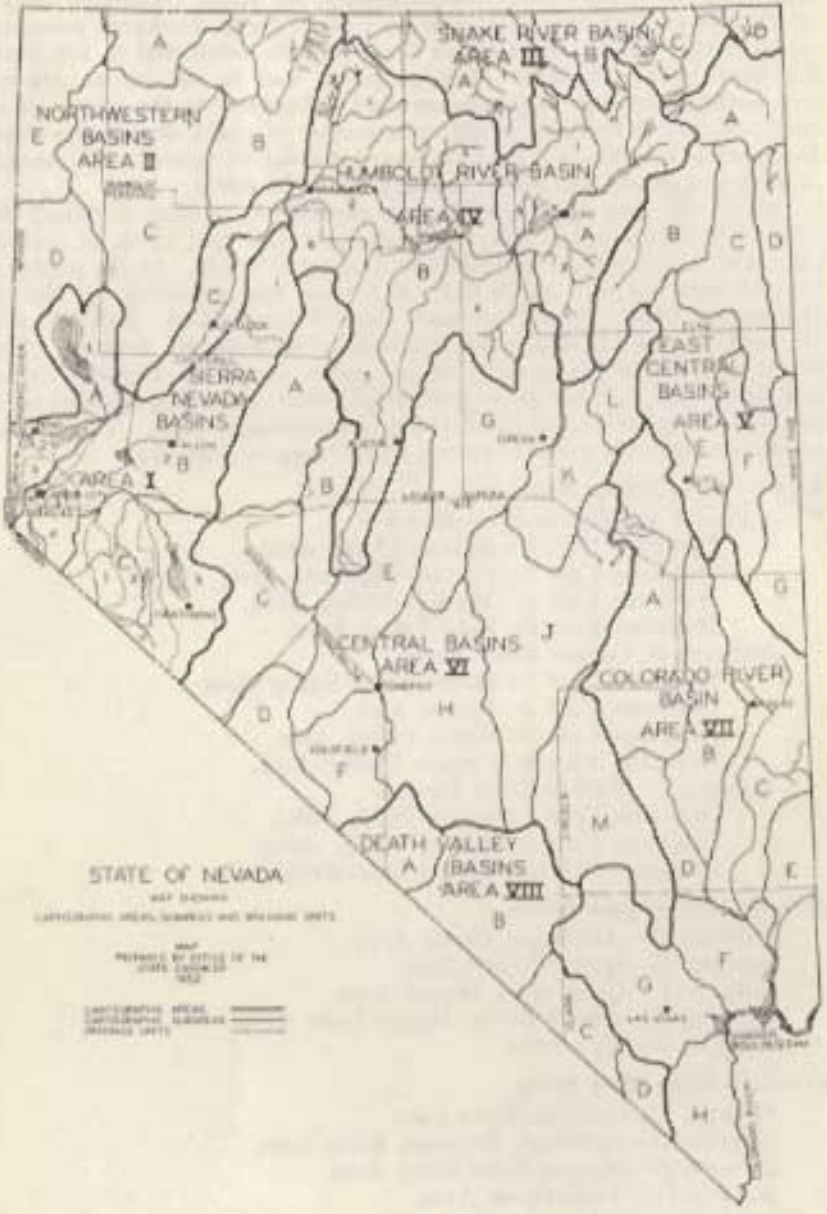
This matter was first discussed before the Sixth Nevada Water Conference in September, 1952, and at that time a suggested program was discussed. Fortunately the various Federal and State agencies with whom the State Engineer is cooperating felt the need of such a program and offered their cooperation.

The plan as proposed and which is now being carried out on a moderate scale is as follows:

1. The accumulation from all sources of discharge measurements of springs and streams.
2. Compiling and documenting such measurements in specially prepared binders according to designated areas. Such listings to include stream, location, date of measurement, method of measurement, measured by, probable accuracy, and discharge.
3. The working out of a program whereby discharge measurements from all sources are submitted to the State Engineer's office for listing.
4. The gathering together and inventorying of water analyses, both surface and ground water.
5. Work out a program to obtain discharge records on streams where it appears such waters are not fully placed to a beneficial use, or where such information would be of value for ground-water studies.
6. To receive information as to the probability of small reservoir sites and to work out plans for water studies.

In general, the plan was to be divided into two parts: First—The accumulation and compiling of all existing data related to discharge measurements, ground-water studies, water analyses. Second—A continuing program for expanding our water measurement program and the collection of information necessary to enable an increase in the beneficial use of water.

As we proceeded with the program it was found desirable to inventory all reports dealing with our water resources—U. S. Weather Bureau records; U. S. Geological Survey gaging stations, past and present; topographic and geological mapping; and snow survey courses.


SNAKE RIVER BASIN
AREA III
NORTHWESTERN
BASINS
AREA II
HUMBOLDT RIVER BASIN
AREA IV
EAST
CENTRAL
BASINS
AREA V
SIERRA
NEVADA
BASINS
AREA I
CENTRAL BASINS
AREA VI
COLORADO RIVER
BASIN
AREA VII
DEATH VALLEY
BASINS
AREA VIII
STATE OF NEVADA

In the records of the Office of State Engineer there are hundreds of stream and spring discharge measurements. No effort has heretofore been made to compile these measurements for ready reference. Some of the Federal and State agencies have made many discharge measurements, and it is planned to have these records submitted to the State Engineer to be recorded. It is proposed that in the future, stream and spring discharge measurements be submitted to the State Engineer. Such a procedure would, in a matter of years, enable the State Engineer to compile and have on record a great volume of such records in such a manner that easy reference could be made.

One of the first steps was the preparation of a map dividing the State into cartographic areas, subareas and drainage units, in accordance with topography, drainage and quality of water. In the preparation of such maps a great deal of service was rendered by George Hardman, State Conservationist, Soil Conservation Service, and Howard Mason, Agricultural Economist, Experiment Station. The State was divided into eight major areas which we termed "cartographic areas." These areas were subdivided into subareas and some of the subareas were further divided into drainage units. These areas are herewith listed and are shown in the map on page 27:

Area I—Sierra Nevada Basins.

Subarea A, Truckee River Basin—
- Drainage Unit 1—Pyramid Lake Area.
- Drainage Unit 2—Truckee Meadows Area.
- Drainage Unit 3—Washoe Valley Area.
- Drainage Unit 4—Lake Tahoe Area.

Subarea B, Carson River Basin—
- Drainage Unit 1—Buena Vista Valley Area.
- Drainage Unit 2—Fallon Area.
- Drainage Unit 3—Eagle Valley Area.
- Drainage Unit 4—Carson Valley Area.

Subarea C, Walker River Basin—
- Drainage Unit 1—Smith Valley Area.
- Drainage Unit 2—Mason Valley Area.
- Drainage Unit 3—Walker Lake Area.

Area II—Northwestern Basins.

Subarea A—Thousand Creek Area.
Subarea B—Quinn River Area.
Subarea C—Black Rock Desert Area.
Subarea D—Smoke Creek, Honey Lake Area.
Subarea E—Vya Area.

Area III—Snake River Basin.

Subarea A—Owyhee River Area.
Subarea B—Jarbidge, Bruneau River Area.
Subarea C—Salmon Falls River Area.
Subarea D—Goose Creek Area.

Area IV—Humboldt River Basin.

Subarea A, Upper River—
- Drainage Unit 1—North Tributary Area.
- Drainage Unit 2—South Tributary Area.

Subarea B, Middle River—
Drainage Unit 1—Little Humboldt River Area.
Drainage Unit 2—Rose Creek, Red House Area.
Drainage Unit 3—Rock Creek, Boulder Valley Area.
Drainage Unit 4—Pine Creek, Crescent Valley Area.
Drainage Unit 5—Reese River Area.
Drainage Unit 6—Grass Valley Area.
Subarea C, Lower River.

Area V—East Central Basins.

Subarea A—Thousand Springs Creek Area.
Subarea B—Ruby, Clover Valley Area.
Subarea C—Goshute, Antelope Valley Area.
Subarea D—Great Salt Lake Drainage Area.
Subarea E—Steptoe, Butte Valley Area.
Subarea F—Spring Valley Area.
Subarea G—Snake Valley Area.

Area VI—Central Basins.

Subarea A—Dixie Valley Area.
Subarea B—Smith Creek, Ione Valley Area.
Subarea C—Mina, Gabs Valley Area.
Subarea D—Fish Lake Valley Area.
Subarea E—Big Smoky Valley Area.
Subarea F—Clayton Valley Area.
Subarea G—Monitor, Diamond Valley Area.
Subarea H—Ralston Valley Area.
Subarea J—Railroad, Hot Creek Valley Area.
Subarea K—Newark, Little Smoky Valley Area.
Subarea L—Long Valley Area.
Subarea M—Penoyer Valley Area.

AREA VII—Colorado River Basin.

Subarea A—White River Valley Area.
Subarea B—Delamar, Cave Valley Area.
Subarea C—Meadow Valley Wash Area.
Subarea D—Pahranagat Valley Area.
Subarea E—Virgin River Valley Area.
Subarea F—Muddy River Basin Area.
Subarea G—Las Vegas Valley Area.
Subarea H—Searchlight, Piute Valley Area.

Area VIII—Death Valley Basin.

Subarea A—Sarcobatus Flat Area.
Subarea B—Amargosa Desert Area.
Subarea C—Pahrump, Mesquite Valley Area.
Subarea D—Ivanapah Valley Area.

All of the records compiled under this program will be indexed and filed under the respective areas.

The State Engineer has obtained a certain type of binder books. Printed sheets have been prepared for compiling discharge measurements. Other sheets titled "Statistical Data Sheets" have been prepared for recording such data as reports, weather stations, etc. The

binders are divided into the eight cartographic areas and these areas in turn are divided into subareas and drainage units. If, for instance, anyone desiring to find out if there has ever been a ground-water report in, say Whiskey Flat, would by refering to the map determine that Whiskey Flat was in Area No. I. He would then go to the binder marked "Area I" and turning to the statistical reference sheet listing all ground-water reports in that area, find that a report of such an area had been made in 1950 and could be found in Drawer S-9 under I-9. The same procedure would be followed in looking up any statistical information relating to water or allied subjects.

COMPILATION OF WATER ANALYSES

On any water study the quality of water is of great importance. Many analyses have been made of waters in Nevada, some of which have been documented in various publications. A large number of the analyses, however, have never been published and in some instances the published records are out of print. It was felt that as a part of our water resources study, and before many of the records containing such analyses are lost, an effort be made to obtain from all sources all of the water analyses that had been made and publish them.

The Nevada Experiment Station offered to pay the publication costs as well as to assist in the compilation of the records. Work was started by the Experiment Station in cooperation with the Soil Conservation Service and the Office of State Engineer. Mr. M. R. Miller, for many years chemist for the Experiment Station and now on retirement, was engaged to compile the records for publication as well as to help prepare the text. Other parts of the text will be written by George Hardman of the Soil Conservation Service.

Nearly two thousand water analyses have been compiled from many sources. In the publication, which will be issued as an Experiment Station bulletin, the analyses will be listed in accordance with the cartographic areas, subareas and drainage units. The material will be submitted to the State Printer within the next two months.

RUNOFF DATA

Very little study has been made anywhere to determine the amount of surface water reaching the valley fill from precipitation on the watersheds. Such data is essential in the study of our ground-water resources. The State Engineer has suggested certain definite studies in order to obtain this information. The study would require the selection of certain catchment areas where stream-flow measurements would indicate the total runoff. In addition, it would require the installation of precipitation storage gages as well as the conducting of snow survey studies. The U. S. Weather Bureau has offered their cooperation in furnishing several storage gages and also in the proper installation of such gages. The Soil Conservation Service will assist in the snow survey program.

Several sites have been under consideration which we feel will be ideal for such studies. The first work will be done in the Pole Creek drainage area which is on the easterly slope of the Sonoma Range just easterly of Winnemucca. Other sites would include Martin Creek,

just northerly of Paradise Valley in Humboldt County, and Reese River drainage on the westerly slope of the Toiyabe Range.

With measurements of the precipitation in the form of rain and snow, and of the resultant runoff, a few years of records should give us valuable information that would be useful in other drainage areas.

PRECIPITATION RECORDS

It has long been felt that precipitation records in Nevada are inadequate, especially for the higher elevations. The U. S. Weather Bureau, realizing this, has offered to cooperate as much as they can. This program, like the others, will not develop too rapidly but by adding a few stations each year, definite progress will be made.

SMALL RESERVOIR SITES

There are many small streams draining from the high mountain ranges which at present debouch upon and waste their waters into the adjacent valley areas. It is our belief that many of these streams could be developed into a valuable adjunct to the State's irrigation needs by the construction of small dams. Every stream of any magnitude should be considered with the idea of putting it to use. The Federal agencies will lend their assistance in reporting areas where it believes conditions appear favorable for development. The initial step on any stream, if other conditions appear favorable, would be to take steps to determine the stream-flow characteristics. Usually such streams flow no more than a few hundred or one or two thousand acre-feet per year, and the major portion of such flow occurs in the spring as a result of snow melt. Much of this early runoff is generally useless for irrigation, being available at the wrong time and in the wrong amounts. Naturally the status of the stream must be considered under its present conditions. Perhaps there are two or more users on the stream and all the water is appropriated. Or again, perhaps such water is the source of an underground reservoir that has been developed by pumping. These are things that of course must be taken into consideration.

During the past two years several small dams have been constructed, or proposed, on minor streams in Nevada, and as far as we know those that have been constructed have proved beneficial. The matter of obtaining information on possible small storage projects, and then to follow this up by investigations as to stream discharge, is important because it will first tend to bring the possibility of an increased water supply to the attention of the persons who would benefit and thereby hasten construction of such projects. A small project should be just as attractive for development as a larger one if it can be shown to be economically feasible.

SUMMARY

The program as outlined is, we believe, a progressive one. True, the work will be slow. Nevertheless, by keeping the objectives in view, and with the wholehearted support of the Federal and State agencies in supporting such a program, benefits should soon be evident and we will be collecting data that are absolutely necessary in order to inventory our water resources and place them to the greatest use.

CHAPTER VI

Cooperative Ground-Water Investigations in Nevada

By Oman J. Loeltz, *Acting District Engineer, United States Geological Survey, Water Resources Division, Ground-Water Branch.*

The State-wide program of investigating the ground-water resources of Nevada, in cooperation with the State Engineer, was begun in July 1945 as a result of an appropriation by the State Legislature of $35,000 for the fiscal biennium beginning at that time. As a result of local cooperation through the State Engineer, ground-water investigations had been in progress in Las Vegas and Pahrump Artesian Basins since July 1944. These studies were incorporated into the State-wide cooperative program. To continue the cooperative program the Legislature appropriated $40,000 for the fiscal biennium beginning July 1, 1947, $30,000 for the biennium beginning July 1, 1949, and $15,109 for the biennium beginning July 1, 1951.

As a result of the reduction of funds for the biennium beginning July 1, 1951, it has been necessary to reduce the number of personnel working in the cooperative program. This has resulted in a consequent decrease in the rate at which the ground-water resources of the State can be ascertained. As of June 30, 1951, the scientific personnel of the U. S. Geological Survey to carry out the State-wide program consisted of an engineer and a geologist.

Since July 1944 some phase of ground water has been investigated in nearly every part of the State. The work of the ground-water program generally falls into one of three categories: (1) Detailed studies of ground-water conditions in selected valleys or areas. These studies are made on the basis of need for information of existing or anticipated development of ground water. They include available significant geologic data as related to ground water, a discussion of the occurrence, source, and movement of ground water and its chemical quality, and quantitative estimates of recharge, discharge, and amount available for development. (2) Reconnaissance studies of undeveloped areas or valleys. These studies are qualitative in nature and are made principally to determine whether conditions for the development of ground water are favorable. (3) Furnishing information about ground water as the result of special requests. These requests come from individuals, industrial concerns, municipalities, local, State and Federal civilian and military agencies. They range from requests for information regarding the drilling of a stock or domestic well to the feasibility of obtaining adequate supplies for national defense installations, or large-scale irrigation projects. About 210 such inquiries were received during the biennium 1950–1952.

In order to make the results of investigations available to the public, reports are prepared and published as the study of each area is completed. Most of the reports have been published by the State Engineer as one of a series of State of Nevada Water Resources Bulletins. A few of the briefer reports have been mimeographed and a few typewritten. Those in mimeographed form are limited as to the quantity available for distribution and those typewritten are available generally

to the public only by consulting the copy on file at the district office or at the Washington office of the Geological Survey.

The following reports are available to the general public:

Progress Report on the Ground-Water Resources of Las Vegas Artesian Basin (mimeographed). 1945.

Water Resources Bulletin No. 2. Ground Water in Lovelock Valley, Nevada. 1946. (Out of print.)

Water Resources Bulletin No. 3. Water Levels and Artesian Pressure in Wells in Las Vegas Valley and Other Valleys in Nevada, 1931–1945. 1947.

Ground Water in the Vicinity of Elko, Nevada (mimeographed). Also included in Water Resources Bulletin No. 12, 1951. 1947.

Water Resources Bulletin No. 4. Well Data in Las Vegas and Indian Spring Valleys, Nevada. 1947.

Water Resources Bulletin No. 5. Geology and Water Resources of Las Vegas, Pahrump, and Indian Spring Valleys, Clark and Nye Counties, Nevada. 1948.

Water Resources Bulletin No. 6. Ground Water in Las Vegas, Pahrump, and Indian Spring Valleys, Nevada. (A summary.) 1947.

Water Resources Bulletin No. 7. Geology and Ground Water in the Meadow Valley Wash Drainage Area, Nevada, Above the Vicinity of Caliente. 1948.

Geology of Clear Creek Dam Site, Ormsby and Douglas Counties, Nevada. (Typewritten manuscript.) 1948.

Ground Water in Spanish Springs and Sun Valleys, Washoe County, Nevada. (Mimeographed.) 1948.

Ground Water Conditions in the Vicinity of Tonopah, Nye County, Nevada. (Typewritten manuscript.) 1948.

Ground Water Appraisal for Stock Water on the West Slope of Black Mountain, Mineral County, Nevada. (Typewritten manuscript.) 1948.

Ground Water in Goshute-Antelope Valley, Elko County, Nevada. (Mimeographed.) Also included in Water Resources Bulletin No. 12, 1951. 1948.

Test-Well Drilling in Argenta Swamp, Lander County, Nevada. (Typewritten manuscript.) 1949.

Water Resources Bulletin No. 8. Ground Water in White River Valley, White Pine County, Nye, and Lincoln Counties, Nevada. 1949.

Water Resources Bulletin No. 10. Ground Water in Paradise Valley, Humboldt County, Nevada. 1949.

Ground Water in the Austin Areas, Lander County, Nevada. (Typewritten manuscript.) 1949.

Ground Water in Nevada (Quarterly of the Colorado School of Mines). 1950.

Ground-Water Conditions in Whisky Flat, Mineral County, Nevada. (Mimeographed.) 1950.

Ground Water for Indian Service Hospital at Schurz, Nevada. (Mimeographed.) 1950.

Water Resources Bulletin No. 11. Preliminary Report on Ground Water in Fish Lake Valley, Nevada and California. 1950.

Water Resources Bulletin No. 12. Contributions to the Hydrology of Eastern Nevada. Includes the following reports: Ground Water in Goshute and Antelope Valleys, Elko County, Nevada; Ground Water in the Vicinity of Elko, Nevada; Ground Water in Ruby Valley, Elko and White Pine Counties, Nevada; Ground Water in Clover and Independence Valleys, Elko County, Nevada; Ground Water in Railroad, Hot Creek, Reveille, Kawich and Penoyer Valleys, Nye, Lincoln and White Pine Counties, Nevada. 1951.

Ground Water in the Vicinity of Verdi, Washoe County, Nevada. (Mimeographed.) 1951.

At the close of the biennium, 15 investigations in 14 counties are at various stages of completion. For most, the field work is from 50 to 100 percent complete. The preparation of reports is somewhat behind these stages.

A report entitled, "Geology and Water Resources of Smith Valley, Lyon and Douglas Counties, Nevada" has been submitted to the Director of the Geological Survey for approval to be released to the public as a Geological Survey Water-Supply Paper. It is expected

that this report will be available for distribution in calendar year 1953. When available, this report will be obtainable from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

In addition to the study of specific areas, a State-wide network of observation wells is maintained. Some of the wells are measured monthly, some quarterly, almost all semiannually, and a few annually. The semiannual measurements are made in February or March and August or September, when maximum or minimum stages of water level ordinarily occur. In calendar year 1951, 1,104 measurements were made in 279 selected observation wells. In addition, continuous records of water-level fluctuations were obatined in 12 wells equipped with recording gages. As the years go by, the record of water-level fluctuations becomes increasingly valuable for evaluating ground-water conditions. These records of water-level fluctuations have been compiled and interpreted and will be published in Geological Survey Water-Supply Papers. One report covers the period 1946 to 1950, inclusive. It will be published in the Water-Supply Paper, 1170, entitled, "Water Levels and Artesian Pressure in Wells in the United States, Part 6, Southwestern States, 1950." The other report covering the calendar year 1951, will be reported in Water-Supply Paper 1196. This phase of the program is supported in part by unmatched Federal funds.

A comprehensive inventory showing the amount of ground water developed in the various valleys of the State has been maintained since 1946. This inventory not only charts the growth of ground-water development but is often very useful in interpreting the fluctuations of water levels in a specified area.

In 1951 the withdrawal of ground water for irrigation by wells, except where noted, was estimated to be as follows in the areas specified:

County	Area	Withdrawal (acre-feet)
Clark	Las Vegas Valley	13,700
	Muddy River Valley	3,250
Douglas	Carson Valley	3,500
	Antelope Valley	400
Elko	Willow Creek drainage	240
	Humboldt River Valley near Elko	80
Esmeralda	Fish Lake Valley	3,250
Eureka	Crescent Valley	550
	Diamond Valley	4,300
Humboldt	Paradise Valley	1,400
	Quinn River Valley	1,000
Lander	Carico Lake Valley	215
	Reese River Valley	430
Lincoln	Meadow Valley Wash	3,500
	Vicinity of Caliente	1,100
	Pahranagat Valley	1,000
Lyon	Carson River Valley below Dayton	1,500
	Mason Valley	50
	Smith Valley	215
Nye	Pahrump Valley	*18,000
	Big Smoky Valley	1,200

*Includes approximately 5,000 acre-feet of flow from springs.

County	Area	Withdrawal (acre-feet)
Pershing	Buena Vista Valley	600
	Grass Valley	170
	Humboldt River Valley	157
White Pine	Steptoe Valley	600
	White River Valley	1,700

The total of the above figures, 62,077 acre-feet, would be increased considerably if the list were complete and ground-water withdrawals for municipal, mining, industrial, domestic and stock use were included. For example, in Las Vegas Valley domestic, municipal, and industrial use is estimated at somewhat more than 20,000 acre-feet in 1951.

With the limited number of personnel, it is impossible to make a physical check of withdrawals from all wells. It will be necessary to rely more and more on the cooperation of individual owners, municipalities, power companies, and other agencies in furnishing the required data. In past years, this cooperation has been remarkably good.

There has been a gradual increase in the development of underground water since the inventory was started in 1946. More and more ranchers and farmers in more areas are finding it profitable to use ground water to supplement their surface-water supplies or to put new land into cultivation. Industrial concerns, mining companies, and municipalities are making an ever increasing demand on the ground-water resources of the State.

CHAPTER VII

Cooperative Stream Measurement Work in Nevada

By L. R. Sawyer, *Engineer-in-Charge, United States Geological Survey Water Resources Division, Surface Water Branch.*

The investigation of surface-water resources carried on under the Nevada–U. S. Geological Survey cooperative program is fundamentally the collection of basic data, including records of stages and discharges, relating to surface water supplies. The efficient and orderly development of all resources of the State is dependent on reliable and comprehensive water-supply data. Agriculture, mining, power production, the tourist industry, and even life itself is ultimately dependent on the available water supply.

The Congress of the United States has recognized the Federal responsibility for the development of the water resources of the country and since 1905 has appropriated funds for cooperative investigations of these resources with the States and other political subdivisions. These appropriations are available only for cooperative work requested by State and local interests, and it is therefore important that the present and future needs of the State and local interests be carefully considered in planning and financing these water resources investigations.

The cooperative stream gaging program is closely connected with the investigation of ground-water resources reported in Chapter VI. Records of stream flow are used to determine the recharge to ground-water reservoirs, and ground-water supplies are available for supplementing runoff. Close coordination of these two programs is therefore maintained.

Water resource data to satisfy all needs were not available and six gaging stations were constructed during the biennium to secure more complete information. Three of these gaging stations are located in the Virgin River Basin, two in the Humboldt River Basin, and one on Prosser Creek near Boca, California, in the Truckee River Basin. Three of these stations were financed under the State Cooperative Program and three by Federal appropriation for the collection of basic water-supply data.

The State of California continued its appropriation of $1,000 for operation of gaging stations in the Carson and Truckee River Basins.

Outstanding floods occurred in November and December 1950 in the Walker, Carson and Truckee River Basins, and in April and May 1952 in the Humboldt River Basin. Flood stages and discharges during these floods were the maximum recorded at many gaging stations. For example, on West Walker River below East Fork near Coleville, California, the maximum discharge previously recorded was 5,800 second-feet on December 11, 1937. The maximum on November 20, 1950 was 6,220 second-feet. On the East Fork Carson River near Gardnerville, Nevada, the maximum previously recorded was 12,000 second-feet on December 11, 1937, and the maximum of November 21, 1950 was 12,100 second-feet. On the Truckee River at Reno the maximum previously recorded was 14,600 second-feet on March 18, 1907,

and the maximum recorded on November 21, 1950 was 19,900 second-feet. Our record for this station does not include 1937, but there is some evidence that indicates that the 1937 maximum was somewhat less than that of 1950.

Stages and discharges of the Humboldt River and its tributaries during April and May 1952 were also of record proportions. For example, the Humboldt River at Palisade reached a crest discharge of 6,020 second-feet on May 2, 1952, only slightly less than the 44-year maximum of 6,250 second-feet recorded on February 25, 1943.

Reports of stream flow and runoff forecasts were made weekly to the Corps of Engineers and other interested parties during the runoff periods, in order that all protective measures possible might be taken.

Continually rising costs have forced some curtailment of the program and seven gaging stations, as shown in the list following, were discontinued during the biennium.

Surface-water supplies for the period covered by this report were generally good. Records for the base gaging station on the Humboldt River at Palisade for the water years ending September 30, 1950 and 1951 show that the discharge was 123 and 156 percent, respectively, of the 39-year normal. Runoff from the West Walker River, draining from the Sierra Nevada, was 93 percent and 136 percent of its 37-year normal for the same periods.

The detailed information collected as a result of these cooperative investigations is published in the annual water-supply papers of the Geological Survey. The published reports are available for consultation at the State Engineer's Office, the State Library, and the Geological Survey suboffice at Carson City, and also at several district offices of the Survey, in addition to many educational institutions and public libraries scattered throughout the States. Current data in advance of publication and information for previous years can be furnished in blueprint form on application to the Engineer-in-Charge, P. O. Box 327, Carson City, Nevada.

The gaging stations operated in and for the State of Nevada are listed below. Locations and descriptions of these stations are given in the report of the State Engineer for the biennium 1944–1946, except for stations installed during the biennium 1946–1948 which are described on page 37 of that Biennial Report, and those installed during the biennium 1948–1950 which are described on page 55 of that report and those installed during the biennium 1950–1952 hereinafter described.

SALMON FALLS CREEK BASIN

Salmon Falls Creek near San Jacinto.

OWYHEE RIVER BASIN

Wild Horse Reservoir near Gold Creek.
Owyhee River near Gold Creek.
Owyhee River near Owyhee.

HUMBOLDT RIVER BASIN

Humboldt River near Elko.
Humboldt River near Carlin.
Humboldt River at Palisade.

Humboldt River near Argenta.
Humboldt River at Battle Mountain.
Humboldt River near Valmy.*
Humboldt River at Comus.
Humboldt River near Rose Creek.
Humboldt River near Imlay.
Rye Patch Reservoir near Rye Patch.
Humboldt River near Rye Patch.
Humboldt River near Lovelock.
Marys River below Hot Springs Creek near Deeth.
Lamoille Creek near Lamoille.
North Fork Humboldt River at Devils Gate near Halleck.
South Fork Humboldt River near Lee.
South Fork Humboldt River near Elko.
South Fork Humboldt above Dixie Creek near Elko.
Huntington Creek near Lee.
Pine Creek near Palisade.
Rock Creek near Battle Mountain.
Reese River near Ione.*
Little Humboldt River near Paradise Valley.
Little Humboldt River at Chimney Dam Site near Paradise Valley (Discontinued November 15, 1951).
Martin Creek near Paradise Valley.
Cottonwood Creek near Paradise Valley (Discontinued October 24, 1951).
Humboldt-Lovelock Irrigation Light & Power Company's Feeder Canal near Imlay.

QUINN RIVER BASIN

Quinn River near McDermitt.
East Fork Quinn River near McDermitt.
McDermitt Creek near McDermitt.

PYRAMID AND WINNEMUCCA LAKES BASIN

Pyramid Lake near Nixon.
Truckee River at Tahoe, California.
Truckee River near Truckee, California.
Truckee River at Farad, California.
Truckee River at Reno.
Donner Creek near Truckee, California.
Little Truckee River near Hobart Mills, California.
Prosser Creek near Boca, California.*
Franktown Creek at Franktown.

CARSON RIVER BASIN

East Fork Carson River near Markleeville, California (Discontinued October 15, 1951).
East Fork Carson River near Gardnerville.
Carson River near Carson City.
Carson River near Fort Churchill.
Silver King Creek near Coleville, California (Discontinued October 17, 1951).

*Gaging stations established during the biennium.

Wolf Creek near Markleeville, California (Discontinued October 18, 1951).
Silver Creek near Markleeville, California.
Markleeville Creek near Markleeville, California.
Pleasant Valley Creek near Markleeville, California (Discontinued November 19, 1950).
West Fork Carson River above Woodfords, California (Discontinued November 20, 1951).
West Fork Carson River at Woodfords, California.
Clear Creek near Carson City.

WALKER LAKE BASIN

Walker Lake near Hawthorne.
Bridgeport Reservoir near Bridgeport, California.
East Walker River near Bridgeport, California.
East Walker River near Yerington.
West Walker River below East Fork near Coleville, California.
West Walker River near Hudson.
East Fork West Walker River near Bridgeport, California.
Topaz Reservoir near Topaz, California.

VIRGIN RIVER BASIN

Virgin River at Littlefield, Arizona.
Bunkerville Canal near Bunkerville.*
Mesquite Canal near Mesquite.*
Muddy River near Moapa.
Muddy River near Glendale.
Meadow Valley Wash near Caliente.*

COLORADO RIVER MAIN STREAM

Lake Mead at Hoover Dam.
Colorado River below Hoover Dam.

MINOR BASINS

Baker Creek near Baker.
Lehman Creek near Baker.

Fifty-three of these gaging stations are financed under the cooperative program, with State, Federal, and local water users' funds, and twelve by Federal noncooperative funds.

The gaging station on Salmon Falls Creek near San Jacinto is operated under the supervision of T. R. Newell, District Engineer for the U. S. Geological Survey in Boise, Idaho, and is operated in cooperation with the Salmon River Canal Co., Ltd., of Twin Falls, Idaho. The two gaging stations on the Colorado River are operated under cooperative agreement between the Bureau of Reclamation and the U. S. Geological Survey Office at Tucson, Arizona, in charge of District Engineer John Gardiner. The gaging station on the Virgin River at Littlefield, Arizona, is also under the supervision of Mr. Gardiner. Records for gaging stations Nos. 2, 4 and 6 in the Pyramid and Winnemucca Lakes Basin are furnished by Walter Bell, Federal Court Watermaster. Records for Carson River at Fort Churchill are furnished by the Newlands Project.

*Gaging stations established during the biennium.

Location and Description of Gaging Stations Established During the Biennium, 1950–1952

HUMBOLDT RIVER BASIN

Reese River Near Ione

Location. Water-stage recorder, lat. 38°51′, long. 117°28′, in sec. 4, T. 11 N., R. 40 E., 2½ miles upstream from Indian Creek, 8 miles southeast of Ione, and 58 miles southwest of Austin.

Remarks. Established August 5, 1951. Records at this station will not be equivalent to those obtained in 1913–1916 at former station near Berlin, 3½ miles downstream, because Indian Creek enters between the two locations and also because of diversions between the sites.

This station has been named near Ione, partly to distinguish it from station published as near Berlin, and partly because Berlin is a long dormant mining town, no longer shown on most maps.

Humboldt River Near Valmy

Location. Water-stage recorder, lat. 40°48′, long. 117°04′, in NE¼ NW¼ sec. 30, T. 34 N., R. 44 E., 3½ miles east of Valmy and 13 miles northwest of Battle Mountain.

Remarks. Established March 1, 1950.

TRUCKEE RIVER BASIN

Prosser Creek Near Boca, California

Location. Water-stage recorder, lat. 39°22′, long. 120°07′, in NW¼ sec. 32, T. 18 N., R. 17 E., a quarter of a mile upstream from mouth and 2 miles southwest of Boca.

Remarks. Reestablished June 12, 1951. Records at this station are equivalent to those obtained in 1889–1890; 1902–1903 at practically the same site.

VIRGIN RIVER BASIN

Bunkerville Canal Near Bunkerville

Location. Water-stage recorder, lat. 36°47′, long. 114°06′, in NE¼ sec. 19, T. 13 S., R. 71 E., 100 feet downstream from bridge on U. S. Highway 91 and 2¼ miles northeast of Bunkerville.

Remarks. Established March 31, 1951.

Mesquite Canal Near Mesquite

Location. Water-stage recorder, lat. 36°48′, long. 114°03′, in sec. 5, T. 39 N., R. 16 W., Gila and Salt River Meridian, 2¼ miles downstream from point of diversion and 1½ miles east of Mesquite.

Remarks. Established March 29, 1951.

Meadow Valley Wash Near Caliente

Location. Water-stage recorder, lat. 37°33′, long. 114°34′30″, in NE¼ sec. 3, T. 5 S., R. 66 E., Mount Diablo Meridian, 7 miles southwest from Caliente, Nevada, 1 mile south of Etna.

Remarks. Established January 18, 1951.

CHAPTER VIII

Nevada Cooperative Snow Surveys

By Clyde E. Houston, *Irrigation Engineer, Division of Irrigation Engineering, S.C.S., Research, Reno.*

This program is cooperative under a formal agreement between the State Engineer, Agricultural Experiment Station, and Division of Irrigation Engineering, S.C.S. Research.

During the past biennium, the snow survey program was carried on with very little change over the preceding years. One hundred and one snow courses are located in the following drainage basins:

Snake River	3	Central Great Basin	3
Owyhee River	4	Lower Colorado River	7
Upper Humboldt River	18	Walker River	8
Lower Humboldt River	11	Carson River	4
Northern Great Basin	2	Truckee River	17
Eastern Nevada	10	Tahoe Basin	14

Local forecast meetings again were held during the first week of April in Elko, Winnemucca, Lovelock, Minden, Fallon, and Yerington.

The 1951 forecast for irrigation season stream flow varied from drought conditions in Central and Southern Nevada to about 50 percent above normal in the north on the main Humboldt. Snow-melt runoff from the Eastern Sierra Nevada was forecast from 25 to 50 percent of normal.

Preliminary stream-flow measurements by the U. S. Geological Survey indicate the Humboldt forecasts were high and the Sierra were low. The drought in Central and Southern Nevada continued unabated.

Climatological data at five representative stations in the Upper Humboldt Basin show that during the months of April, May, and June, average temperature was about three degrees below normal. This undoubtedly had a retarding effect on the melting of snow at higher elevations.

As for the error in the Sierra forecasts, it appears that insufficient weight was given to the 350 percent of normal precipitation which occurred during the storms of November and December 1950. Correlation studies are continuing to detect these discrepancies.

One snow course above Fish Lake Valley was abandoned. A new snow course has been established about one-half mile west of Donner Lake as a replacement for an existing course which has been disturbed by new roads and newly constructed summer homes. Two snow courses were established on Mt. Grant above Hawthorne to assist the Navy in forecasting their limited water supply.

The Army Engineers are assisting with the cost of surveys on Meadow Valley Wash. Their interest stems from Congressional authorization for construction of two flood control dams on Pine and Mathews Canyons. Had they not come to the rescue these snow courses would have been abandoned due to a shortage of operating funds.

For the State as a whole the 1951–1952 snow season was probably

the heaviest ever encountered here by the white men. Every snow course in the State at one time contained more snow than ever before measured. Measurements in some areas have 42 years of record. At Donner Summit the total seasonal snowfall was greater than ever before in the 73 years of record. This resulted in record or near record stream flow from the east slope of the Sierra. Heavy snow on the Humboldt watershed resulted in record or near record discharge into Humboldt Sink. As is to be expected from such a heavy snow season, a greater than normal number of requests were received for additional information concerning snow cover and expected runoff. The City of Reno requested and received current snow information on the Truckee River watershed. The City of Ely requested and received weekly snow surveys in order to continually evaluate the flood potential on Robinson and Gleason Creek watersheds. The Las Vegas Land and Water Company requested and received data on the snow cover in the Spring Mountains and its effect on ground water in Las Vegas Artesian Basin. The Army Engineers requested and received current information on snow conditions and runoff prospects on the Humboldt watershed.

An over-snow machine has been obtained for permanent use in Nevada. It will operate in the Sierra for February and April surveys and in the south, central, and eastern areas of the State for the March surveys. There has long been a need for such a machine in the State as it is becoming more difficult each season to find competent personnel willing and able to make the arduous and hazardous snow survey trips. One additional over-snow machine is needed for operation out of Elko.

An expansion of the Lower Humboldt River snow course network is needed to supply information on expected runoff from streams such as Rock Creek which contributed so heavily to the lower river high-water conditions during the past spring.

CHAPTER IX

Irrigation Studies

By CLYDE E. HOUSTON, *Irrigation Engineer, Division of Irrigation Engineering, S.C.S., Research, Reno.*

Our work in the State is cooperative under formal agreement between the State Engineer, Agricultural Experiment Station, and Division of Irrigation Engineering, S.C.S. Research.

The last Biennial Report outlined the irrigation studies to be undertaken by our Division. These studies include work with evapotranspiration tanks, consumptive use and irrigation effieiency studies, irrigation evaluations, and water management practices.

The consumptive-use tanks are located at the Agricultural Experiment Station Farm on Valley Road in Reno. They consist of four 3' x 6' double tanks planted two to alfalfa and two to an alfalfa, fescue, brome-grass pasture mix. The growing season of 1950 was needed to establish the stands, and actual records of water use and yield were started during the 1951 season.

Soil moisture sampling and water measurements to determine seasonal consumptive use and irrigation efficiencies under field conditions were started at the Valley Road Farm in Reno, near Halleck and Lamoille in Elko County, and in Moapa Valley.

RENO AREA

At the Valley Road Farm a one-quarter acre alfalfa forage experimental plot was used. All water applied was measured with a 6-inch flume and continuous recorder. Surface runoff was measured with a 3-inch flume and recorder. Soil samples to six feet depth were obtained before and after each irrigation and oven dried to determine the actual amount of water placed in the root zone of the crop. At the end of the irrigation season a complete inventory was obtained of water placed on the land and into the soil, as well as that lost by deep percolation. Yields were also determined. A progress report on this project is now being prepared.

ELKO COUNTY

In Elko County, as in much of the rest of Nevada, most meadows producing hay and pasture are irrigated by a method of uncontrolled flooding. It is felt that this method of irrigation is wasteful from the standpoint of excess water use, as well as poor quality and yield of pasture and hay. Irrigation experiments on similar land have proven this in other States but there has been practically no research in Nevada aimed at determining the total value of improved water application methods on mountain meadows. Nevada's water supply is limited. With a limited water supply the best means for satisfying the ever increasing demands is by a more efficient use of existing supplies. What is efficient use? How much water is consumed in the production of hay and pasture? These questions are being constantly put to irrigation technicians throughout Nevada. In an attempt to

find an answer to some of these questions, irrigation experiments were started on a ranch near Halleck and another near Lamoille. One border, in an improved irrigation field, at Halleck, was chosen for which a complete water inventory was kept. The work was carried on in a manner similar to that at the Valley Road Farm. A two-foot rectangular weir with continuous recorder was set at the head of the border to measure all of the water applied. A one-foot weir with recorder was set at the bottom to measure the water leaving. The difference was the amount of water actually applied to the border at an irrigation. Soil samples were taken to a depth of four feet prior to irrigation and after irrigation. These were weighed and dried in accordance with standard procedures. Results of our study showed that on the field under observation there was sufficient water lost by deep percolation to irrigate an additional 25 acres. Last year's yield and hay values from the studied field were such that an additional 25 acres had a gross value of $64 per acre, or a total value of $1,600 per year. When it is realized that this in an infinitesimal part of the total irrigated area of the State, the returns from proper irrigation everywhere is astounding.

MOAPA VALLEY

In Moapa Valley, under present water management practices, there is a shortage of irrigation water during the summer peak use period. Here the supply is limited without expensive storage or importation of water. Here, too, more efficient use of existing supplies may go far toward alleviating the shortage. In an approach to better water management, studies have been undertaken to determine present use and efficiency of use. Practically the same type installation and procedures as previously described for Reno and Elko County have been set up in Moapa Valley.

COLUMBIA RIVER BASIN IN NEVADA

During the last session of the Nevada Legislature an Act was passed creating the Columbia River Basin Compact Commission of Nevada, with the State Engineer as chairman. The general purpose of this Commission is to represent Nevada in any dealings concerning the waters of Columbia River.

The Columbia River Basin covers an area of approximately 259,000 square miles of which about 5,000, or 2 percent, is within the borders of Nevada. The major tributaries in this State are the South and East Forks of Owyhee River, the Bruneau and Jarbidge Rivers, Salmon Falls Creek and Goose Creek. The elevation of the Nevada portion ranges from 5,000 to 10,000 feet with most of the irrigated areas in the 5,000 to 6,000 feet zone. Average annual precipitation ranges from about 5 to 25 inches with about 75 percent occurring in the form of snow. Informal estimates of Columbia Basin water leaving Nevada vary from one-quarter to three-quarters million acre-feet annually.

Mr. Shamberger, Nevada State Engineer, requested the assistance of the Soil Conservation Service in collecting preliminary data concerning: (1) irrigated acreage in Nevada, (2) irrigable acreage and, (3) amount of Columbia Basin water consumed in this State.

The State Engineer's office has been quite active in the Salmon Falls

Creek watershed, and during the past five years the S.C.S. has been actively cooperating with two Soil Conservation Districts which cover most of the area.

In July 1951, Mr. Shamberger, Mr. Naphan, S.C.S. Soil Scientist, and the writer spent a week in the Owyhee, Bruneau, and Jarbidge basins making a preliminary survey. Aerial photographs, S. C. S. survey maps, and the Northeastern Nevada Cooperative Land Use Study maps were used on the reconnaissance to delineate irrigated and irrigable lands. Crops, cropping practices, and irrigation methods were noted from observation and interview.

In general, irrigation begins with the melting of snow about April 1. In areas where late water is not available, water application ends about July 1. Where late water is available there may be irrigation until the first of November. Over most of the irrigated section, water is applied by diverting from a stream onto a field and allowing the water to flood the field for about two months when the stream either ceases to flow or must be removed so the field may dry out for haying.

Preliminary figures developed by Mr. Naphan give the following acreages of agricultural crops and native vegetation for irrigated and irrigable areas:

Irrigated and Irrigable Acreage—Columbia Basin in Nevada

Irrigated acres		Irrigable acres	
Alfalfa	1,140	Big sage	143,640
Improved hay and pasture	15,310	Rabbit brush	12,300
Native hay and pasture	46,250	Greasewood	5,120
Grain	1,710	Saltgrass meadows	4,400
		Willows	5,230
		Low sage	7,480
Total	64,410	Total	178,170

Consumptive-use data have been developed for these acreages by use of the Blaney-Criddle formula supplemented by interview of local interests.

The 135,000 acres of irrigable upland use only precipitation to maintain growth. If the uneconomic bottomland crops were replaced by improved hay and pastures, less water would be consumed than at present. If the bottomland and upland irrigable area were replaced by improved hay and pastures there would be an additional 140,000 acre-feet of irrigation water consumed.

A report to the State Engineer is being prepared which will contain all of these data and which will serve as a foundation upon which to build and revise as additional information becomes available from any source or may be developed expressly for this area. The idea, in general, is that when the time comes for the interested States to discuss the waters of the Columbia River and its tributaries, Nevada will have authoritative basic information upon which to justify her claims for beneficial use of Nevada water in Nevada.

CHAPTER X

New Laws Affecting Water

During the 1951 session of the State Legislature a number of amendments and additions were made to the General Water Law. No changes were made in the Ground-Water Act. This chapter will briefly describe the changes made in 1951. The State Engineer has compiled the water law containing all new additions and copies of such compiled laws are available upon request.

STATE ENGINEER, OFFICER OF COURT, MAY PETITION DISTRICT COURT FOR REVIEW OF ORDERS NOT COMPLIED WITH

Sec. 36½, Chap. 192, Stats. 1927 (as amended, Chap. 110, 1951)

Prior to the 1951 amendment, the State Engineer, or his assistant, acting as an officer of the court in distributing water, following the filing of the Order of Determination had no procedure whereby he could cite a water user before the court for not abiding by an order of the State Engineer other than by criminal contempt proceedings. The 1951 amendment provides that upon refusal of any claimant to abide by an order of the State Engineer, the State Engineer may petition the District Court for a review of such order and cause to be issued an order to show cause. Provision is also made that an appeal from the judgment may be taken to the Supreme Court.

ON STREAMS ADJUDICATED OTHER THAN PROVIDED IN SECTIONS 18 TO 51—STATE ENGINEER TO TAKE CHARGE OF DISTRIBUTION WHEN DISTRICT COURT DIRECTS

Sec. 46½, Chap. 1947 (as amended, Chap. 121, 1951)

This section provides that on streams adjudicated other than by the procedure set forth in sections 18 to 51 of the water law, when one or more users having a decreed right desire to have the State Engineer take charge of the diversions and distributions, they may petition the District Court which entered such decree. The 1951 amendments provide that the District Court shall direct that notice of the filing of the petition shall be given to each water user or claimant and that such notice be an order to show cause. That the petition shall be deemed in nature of a complaint, and that appeals may be taken from the judgment of the District Court to the Supreme Court.

The Supreme Court of Nevada, in an opinion entered June 27, 1952, found this section constitutional.

WATER COMMISSIONERS

Sec. 52, Chap. 209, Stats. 1931 (as amended, Chap. 110, 1951)

Amendments were made to provide that the duties and salaries of the water commissioners shall be fixed by the State Engineer, together with other amendments concerning the collection and distribution of funds to pay for commissioner services, and that the State Engineer may appoint an engineer to work in a supervisory capacity on water distribution problems.

INGRESS AND EGRESS—WATER COMMISSIONERS

Sec. 54, Chap. 176, Stats. 1929 (as amended, Chap. 110, 1951)

This section was amended to provide that water commissioners shall have the right to ingress and egress across and upon public, private, or corporate lands at all times in the exercise of his duties.

STATE ENGINEER AUTHORIZED TO REMOVE DAMS NOT LEGALLY ESTABLISHED

Sec. 56½, Chap. 110, Stats. 1951

This is a new section and empowers the State Engineer to order the removal of any dam, diversion works or obstruction that has been placed in any stream channel when such dam, diversion works or obstruction has not been legally established.

APPROPRIATION OF WATER—WHO MAY APPROPRIATE

Sec. 59, Chap. 59, Stats. 1919 (as amended, Chap. 110, 1951)

This section was amended to define who is eligible to appropriate water by inserting the words "or any person, as defined in section 48 of this act." Section 48 defines "person" as used in the Act as a corporation, an association, the United States, the State, as well as a natural person.

RETURN OF FEES ON CANCELLED APPLICATIONS

Sec. 61, Chap. 140, Stats. 1913 (as amended, Chap. 110, 1951)

During the 1949 Legislature the fee for an application to appropriate water was raised from $20 to $25. The publication fee, which is included in the application fee, was increased from $12.50 to $15. The 1949 Legislature failed to amend section 61 to provide a refund of $15 instead of the $12.50 to the applicant upon the cancellation of his application. The 1951 amendment so provides.

HEARING ON PROTESTS—TECHNICAL RULES OF EVIDENCE NOT TO APPLY

Sec. 62, Chap. 140, Stats. 1913 (as amended, Chap. 110, 1951)

The amendment provides "that technical rules of evidence shall not be deemed to apply" in a hearing conducted by the State Engineer in the matter of a protested application.

APPLICATION FOR EXTENSION OF TIME

Secs. 65 and 67, Chap. 140, Stats. 1913 (as amended, Chap. 110, 1951)

The amendment provides that when a permittee desires to make an application for extension of time within which to file proofs of commencement, completion and beneficial use, such application for extension of time must be filed within 30 days following notice by registered mail that proof of such work is due.

MAP TO ACCOMPANY PROOF OF BENEFICIAL USE

Sec. 69, Chap. 140, Stats. 1913 (as amended, Chap. 110, 1951)

This section as amended, gives the State Engineer discretionary power to require that the proof of beneficial use be accompanied by a map. Further, that the State Engineer may in his discretion grant

an extension of time within which to file proof of beneficial use and map, provided that application for such extension be made prior to the expiration of the 30-day period following notice of registered mail.

ACTION INITIATED IN COURT THAT ENTERED DECREE

Sec. 75, Chap. 253, Stats. 1915 (as amended, Chap. 110, 1951)

Section 75 provides for a review by a District Court of orders or decisions of the State Engineer. The 1951 amendment provides that on a stream system where a Decree of Court has been entered, the action shall be initiated in the court that entered the decree.

SUPERVISION OF DAMS

Sec. 77¼, Chap. 110, Stats. 1951

This is a new section which provides that before constructing a dam more than 10 feet in height, or if less than 10 feet in height and will impound more than 10 acre-feet of water, plans and specifications must be filed in triplicate 30 days before construction, and must be approved by the State Engineer. The section provides for certain supervision of dams. Chapter VI sets forth the Act and the State Engineer's Rules and Regulations pertaining thereto.

COLUMBIA BASIN INTERSTATE COMPACT COMMISSION OF THE STATE OF NEVADA

Chap. 218, Stats. 1951

This is a new section creating the Columbia Basin Interstate Compact Commission of the State of Nevada.

INTERSTATE WATERS

Chap. 325, Stats. of 1951

It is declared to be contrary to the economic welfare and against the public policy of the State of Nevada to change the place of use or transfer, or to permit a change of the place of use or transfer of water or water rights for use beyond the borders of the State of Nevada, as to water heretofore or hereafter appropriated and beneficially used in the State of Nevada, and no permit or authorization shall be issued or given for such change of use or transfer.

CHAPTER XI

Water Litigation

DUTT CREEK—EUREKA COUNTY

On January 28, 1949 the Supreme Court of the State of Nevada ruled in Case No. 3533, that the existing Nevada Water Laws did not preclude a person from acquiring an adverse right to the use of water. The opinion of the court was divided, with Judge Eather dissenting. On this one point the Third Judicial District Court was overruled and the case referred back to the court.

An amended complaint was filed by the plaintiff, Dewey Dan, and answers were made by defendants, Dan Filippini and Alfred Merritt Smith, State Engineer. The matter has not yet come to trial.

NOTE: The 1949 Legislature amended the water law in a manner to prevent any further adverse claims to the use of water.

LITTLE HUMBOLDT RIVER

On February 15, 1951 four actions were filed in the Sixth Judicial District Court by the Henry McCleary Timber Company, as plaintiff, vs. Alfred Merritt Smith, State Engineer, and the Wm. Stock Farming Co. and others as defendants. These actions are an appeal from the ruling of the State Engineer denying four applications to appropriate the waters of certain streams which are part of the Little Humboldt River stream system. The actions have not come to trial.

On March 19, 1951 an action was filed in the Sixth Judicial District Court by the Henry McCleary Timber Company, as plaintiff, vs. Alfred Merritt Smith, State Engineer, as defendant. This action is an appeal from an order of the State Engineer setting the irrigation season on the Little Humboldt River stream system. The William Stock Farming Company, et al., and the Bullhead Cattle Company have been allowed to intervene in the case on the side of the State Engineer.

The matter has not yet come to trial.

HUMBOLDT RIVER

On December 23, 1949 the Horseshoe Cattle Company, as plaintiff, filed an action against Alfred Merritt Smith, State Engineer as defendant, in the Third Judicial District Court. This action was an appeal from an order of the State Engineer demanding the removal of a dam from the present Humboldt River channel and cessation of the use of a ditch from Rock Creek. Since the filing of the complaint, several meetings have been held and engineering plans have been prepared and discussd with the several interested parties in the hopes that an out-of-court agreement may be reached.

QUINN RIVER

Numerous actions have been filed concerning water use on the Quinn River system. No attempt will be made to list each action. However, two decisions by the Supreme Court dealing with these actions should be noted.

In a "Contempt of Court" action which was taken to the Supreme Court, the Supreme Court on May 15, 1950 held that a District Judge could not sit on contempt actions in his Judicial District where such action was a contempt proceeding dealing with a decree entered by such court.

The 1951 Legislature amended the existing statute to the extent that the District Judge could hear these actions after the decree had been entered for 10 years.

On June 25, 1951 an action was started under section 46½ of the water law, being Chapter 121, Statutes of 1951. The constitutionality of this Act was questioned and the matter went before the Supreme Court. On June 27, 1952 the Supreme Court denied a writ of prohibition and held that section 46½, Chapter 121, Statutes of 1951, was constitutional.

APPENDIX I

State Water Right Surveyors of Nevada

Following is an active list of licensed State Water Right Surveyors authorized to practice before the Office of the State Engineer during the past biennium:

NEVADA

Babbitt—Floyd L. Justus.
Battle Mountain—James R. Wilson.
Beatty—Ernest H. Clary.
Carson City—John B. Chattin.
Wm. J. Johnstone.
Harry E. MacNelly.
Jack A. Parvin.
Robert A. Allen.
W. T. Holcomb.
Lawrence G. Chambers.
Elko—W. H. Settlemeyer.
Hugh I. Rossolo.
Ely—F. W. Millard.
Robert W. Millard.
John Victor Caselli.
Eureka—Floyd Sadler.
M. M. Harcourt.
Fallon—Hugh M. Wilson.
Riley C. Hilbel.
Fernley—W. A. Pray.
Gardnerville—O. L. Huseman.
Goldfield—Harry R. Hughes.
Henderson—F. W. Thorne.
Frank J. Gould.
Las Vegas—Jack Asher.
Harlan Brown.
C. D. Baker.
Van O. Eastland.
Frank D. Rathbun, Jr.
George W. Von Tobel.
L. A. Harris.
F. M. Eaton.
Lovelock—Robert S. Leighton.
Mina—L. R. Spencer.
Minden—J. A. Millar.
James D. Wallace.
Paradise Valley—F. R. Stewart.
Ploche—Frank Walker.
Reno—R. W. Prince.
John E. Curran.
C. V. Taylor.
Claude E. Hunter.
John V. Mueller.
Starr McW. Hill, Jr.
Carl Stoddard.
Philip S. Cowgill.
David Mitchell.
Geo. W. Malone.
C. C. Taylor.
E. P. Osgood.
A. E. Holgate.
Wayne McLeod.
William A. Relnken.
Round Mountain—Thomas M. Cahill.
Sparks—Robert F. Guinn.
Sulphur—J. G. Huntington.
Stewart—C. J. Preece.
Tonopah—C. A. Liddell.
Virginia City—Walter G. Reid.
Howard W. Squires.
Wells—J. L. Vandiver.
Winnemucca—W. A. Wentz.
A. V. Tallman.
Richard M. Black.

CALIFORNIA

Alturas—W. J. Archer, P. O. Box 167.
Robert W. Haselwood.
San Francisco—Gunnar F. Halle, 219 Gonzales Drive.

OREGON

Portland—George L. Ducret, % Fish and Wildlife Service, Swan Island.

UTAH

Ogden—Louis H. Bunkel, % Southern Pacific Co.
R. Russell Lyon.
K. W. Kennedy, 1544 Twenty-seventh Street.
Salt Lake City—C. R. Hagen, 218 Felt Bldg.
St. George—Leo A. Snow, Snow Bldg.

APPENDIX 2

Irrigation Districts and Companies

IRRIGATION COMPANIES

Muddy River Irrigation Company, Preston Irrigation Company, Lund Irrigation Company, Bunkerville Irrigation Company, Mesquite Irrigation Company, Alamo Irrigation Company, Panaca Irrigation Company, Pacific Reclamation Company, Franktown Irrigation Company, Ash Springs Irrigation Company, and Hiko Irrigation and Water Company.

LUND IRRIGATION COMPANY

Officers—A. N. Carter, President; Geo. W. Faucett, Vice-President; Leland Hendrix, Secretary-Treasurer; Milton D. Gardner and Vance McKenzie, Members.
Office—Lund, Nevada.
Organized 1907.

MESQUITE IRRIGATION COMPANY

Officers—Vernon Frehner, President; Dee M. Hughes, Vice-President; John Houston, Director; Vernon Pollock, Secretary.
Office—Mesquite, Nevada.
Organized June 8, 1925.
Irrigable acres, 2,200.
Irrigated acres, 1,600.

BUNKERVILLE IRRIGATION COMPANY

Officers—William Leavitt, President; Wendell Leavitt, Secretary-Treasurer; Dan Waite and Luther Hafen, Directors.
Office—Bunkerville, Nevada.
Organized June 25, 1925.
Irrigable acres, 1,200.
Irrigated acres, 985.

PANACA IRRIGATION COMPANY

Officers—Jas. A. Wadsworth, President; Bert Findlay, Vice-President; Wm. Adair, Secretary-Treasurer; Henry Johnson and Ernest T. Gentry, Directors.
Office—Panaca, Nevada.

PRESTON IRRIGATION COMPANY

Officers—Randall Bradley, President; Wesley Reid, Vice-President; Charles Funk, Secretary; Lowell Petersen and Clifford Peacock, Directors.
Office—Preston, Nevada.
Organized March 24, 1911.

MUDDY VALLEY IRRIGATION COMPANY

Officers—Edwin G. Wells, President; Roy Robison, Vice-President; Louis Adams, Karl Marshall, and Lester Shurtliff, Directors; Joseph N. Skousen, Secretary-Treasurer.
Office—Overton, Nevada.
Irrigable acres, 4,500.
Irrigated acres, 3,000.

ALAMO IRRIGATION COMPANY

Officers—John P. Wright, President; Lowell Ercanbrack, Vice-President; Dan Stewart, Secretary-Treasurer; Joseph W. Steele and Harvey Frehner, Directors.
Office—Alamo, Nevada.
Organized 1922.
Irrigable acres, 822.
Irrigated acres, 725.

PACIFIC RECLAMATION COMPANY

Officers—Ensign Hill, President and Resident Agent; Wayne Bake, Director; L. A. Bohne, Director and Secretary-Treasurer.
Office—Wells, Nevada.

ASH SPRINGS IRRIGATION COMPANY

Officers—Leonard Wadsworth, President; Edwin Higbee, Vice-President; Gardner Chism, Secretary-Treasurer; Ray Stewart and Milt Steele, Directors.
Office—Alamo, Nevada.
Organized 1947.
Irrigable acres, 840.
Irrigated acres, 840.

HIKO IRRIGATION AND WATER COMPANY

Officers—George E. Nesbitt, President; A. Roy Nesbitt, Vice-President; Wm. U. Schofield, Jr., Secretary-Treasurer; Keith Whipple, Director; J. Alfred Hansen, Director and Resident Agent.
Office—Hiko, Nevada.
Organized October 21, 1948.
Irrigable acres, 900.
Irrigated acres, 600.

IRRIGATION DISTRICTS

Walker River Irrigation District, Pershing County Conservation District, Truckee-Carson Irrigation District, and Washoe County Water Conservation District.

WALKER RIVER IRRIGATION DISTRICT

Officers—B. E. Minister, President and Director; Manuel Farias, Vice-President and Director; Richard B. Day, Treasurer and Director; Ugo Giorgi and A. Menearini, Directors; Roy M. Whitacre, Secretary-Manager; and Claire Thompson, Assistant Secretary.
Office—Courthouse, Yerington, Nevada.
Organized November 25, 1918.
Irrigable acres, 160,000.
Irrigated acres, 79,175.

PERSHING COUNTY CONSERVATION DISTRICT

Officers—Ruth C. Ruddell, President; Ed. Garaventa, Vice-President; Henry Anderson, Treasurer; Robert S. Leighton, Secretary-Manager; Lester C. Munk, Myrtle B. Anker, Lester Hansen, Frank Quilici, and Joe F. Mateas, Directors.
Office—Courthouse, Lovelock, Nevada.
Organized February 1926.
Irrigable acres, 36,000.
Irrigated acres, 25,438.

WASHOE COUNTY WATER CONSERVATION DISTRICT

Officers—Edward M. Peckham, President; Robert J. Flick, Vice-President; Ernest A. Capurro, Treasurer; E. S. Yoakam, Secretary; Ernest J. Kleppe, Carl Stoddard, and Charles J. Gault, Directors; John Robinson, Attorney; Chester C. Taylor, Engineer-Manager.

Office—29 East First Street, Reno, Nevada.

Organized June 1929.

FRANKTOWN IRRIGATION DISTRICT

Officers—A. H. Cliff, President; John L. Jackson, Secretary; R. F. I. Raymond, Director and Vice-President; James H. Lathrop, George Leonard, Jack Whitehead, and Fred L. Cliff, Directors.

Office—First National Bank Building, Reno, Nevada.

Organized 1947.

Irrigable acres, 2,719.

Irrigated acres, 2,100.

TRUCKEE-CARSON IRRIGATION DISTRICT

Officers—John Konda, President; George G. Miller, Marvin Weishaupt, Jack Olson, Mario Peraldo, Fred Kirn, and John C. Thornton, Directors; J. W. Johnson, Jr., Attorney; John R. Hannifan, Secretary-Treasurer; Phil Hiibel, Project Manager.

Office—Fallon, Nevada.

Organized November 25, 1918.

Irrigable acres, 72,354.

Irrigated acres, 55,000.

Additional pasture lands irrigated, 33,000.

APPENDIX 3

Status of Applications Filed During the Period from July 1, 1950, to June 30, 1952

Following is a condensed statement giving the salient data in connection with applications filed during the period from July 1, 1950, to June 30, 1952, in the order of:

1. Application serial number.
2. Date of filing.
3. Name of applicant.
4. Source of water supply.
5. Purpose of appropriation.
6. Action on application.
7. Status of permits as of June 30, 1952.

NOTE—G. S. denotes Good Standing.

13432 7- 3-50 George D. Brown; Underground; Irrigation and domestic; Approved January 31, 1951, for 1.5 c.f.s. G. S.

13433 7- 3-50 Raymond Gardner; Minnow Spring Well; Stockwatering; Approved October 5, 1951, for 0.025 c.f.s. G. S.

13434 7- 3-50 H. J. Buchanan; Corral Canyon Creek; Irrigation; Approved December 6, 1950, for 3.0 c.f.s. G. S.

13435 7- 3-50 H. J. Buchanan; Underground; Irrigation and domestic; Approved December 6, 1950, for 1.9 c.f.s. G. S.

13436 7- 3-50 Las Vegas Hotel, Inc; Underground; Quasi-municipal; Approved February 1, 1951, for 0.6 c.f.s. G. S.

13437 7- 3-50 Las Vegas Hotel, Inc; Underground; Quasi-municipal; Approved February 1, 1951, for 0.4 c.f.s. G. S.

13438 7- 3-50 G. M. Reid; Underground; Stockwatering and domestic; Approved December 6, 1950, for 0.015 c.f.s. G. S.

13439 7- 3-50 John C. Pugh; Verdi Spring; Domestic; Cancelled February 5, 1951, because of failure to refile corrected application within statutory time.

13440 7- 4-50 John Jay Casey; Underground; Irrigation and domestic; Approved April 23, 1951, for 4.0 c.f.s. G. S.

13441 7- 7-50 Harold P. Stewart; Underground; Irrigation and domestic; Approved February 1, 1951, for 4.5 c.f.s. G. S.

13442 7- 7-50 Harold P. Stewart; Underground; Irrigation and domestic; Approved February 1, 1951, for 5.0 c.f.s. G. S.

13443 7-10-50 Edward Delbert Hyde; Underground; Irrigation and domestic; Cancelled August 27, 1951, because of failure of applicant to comply with the provisions of permit.

13444 7-11-50 John Greenfield; Underground; Irrigation and domestic; Approved December 13, 1950, for 0.35 c.f.s. G. S.

13445 7-11-50 Mary B. Kessler; Underground; Domestic; Approved April 12, 1951, for 0.05 c.f.s. Certificate issued.

13446 7-11-50 W. L. Petersen; Underground; Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13447 7-17-50 Muller Bros.; Irrigation and domestic; Cancelled June 14, 1951, because of failure to submit supporting map within the statutory time.

13448 7-17-50 Rex B. Clark; Underground; Stockwatering; Approved February 14, 1951, for 0.016 c.f.s. Certificate issued.

13449 7-21-50 Will M. and Hatherly B. Bliss, Will M. Bliss, as trustee for William W. and Hatherly Bliss; Hen Highway or Badger Springs; Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13450 7-25-50 H. H. Magee; Underground; Irrigation; Approved January 2, 1951, for 5.0 c.f.s. G. S.

13451 7-25-50 H. H. Magee; Underground; Irrigation; Approved January 2, 1951, for 2.0 c.f.s. G. S.

13452 7-26-50 Robert T. and Lillian R. Gardner; Underground; Irrigation and domestic; Approved December 6, 1950, for 0.2 c.f.s. G. S.

13453 7-26-50 Bonnye V. Hooper; Cradlebough Spring; Stockwatering; Cancelled September 11, 1951, because of failure of applicant to comply with the provisions of permit.

13454 7-26-50 Bonnye V. Hooper; Strawberry No. 2 Spring; Stockwatering; Protested.

12455 7-26-50 Bonnye V. Hooper; Smith No. 1 Spring; Stockwatering; Cancelled September 11, 1951, because of failure of applicant to comply with the provisions of permit.

12456 7-27-50 R. B. Griffith; Kyle Spring; Domestic; Approved December 4, 1950, for 0.40 c.f.s. G. S.

12457 7-31-50 Phillip E. Rowe; North Gardner Creek; Irrigation; Approved March 1, 1951, for 5.0 c.f.s. G. S.

12458 8- 7-50 C. B. Quinlisk & Co.; Underground; Mining, milling and domestic; Approved July 19, 1951, for 0.75 c.f.s. G. S.

12459 8- 7-50 Verne B. and Ralph G. Parman; Flowing Springs (Flood Water); Irrigation and domestic; No action.

12460 8- 9-50 Sidney B. Smyth; Underground; Irrigation and domestic; No action.

12461 8-14-50 Knud Nielsen; Rock Creek; Irrigation and domestic; Approved February 5, 1952, for 1.5 c.f.s. G. S.

12462 8-17-50 Gertrude G. Moran; Underground; Irrigation and domestic; Cancelled December 14, 1951, because of failure of applicant to comply with the provisions of permit.

12463 8-17-50 William L. Meikle; Nellis Air Force Base Disposal Plant Effluent; Irrigation; Approved April 12, 1951, for 7.0 c.f.s. G. S.

12464 8-21-50 A. A. Rose; Underground; Refrigeration; Approved December 13, 1950, for 0.10 c.f.s. G. S.

12465 8-22-50 Las Vegas Hotel, Inc.; Underground; Quasi-municipal; Approved July 19, 1951, for 0.8 c.f.s. G. S.

12466 8-22-50 John Isbell; Unnamed Drain Ditch; Irrigation and domestic; Approved January 2, 1951, for 0.15 c.f.s. G. S.

12467 8-23-50 John J. Casey; Antelope Spring; Stockwatering; Protested; No action.

12468 8-25-50 John J. Casey; Sulphide Well; Stockwatering; Protested; No action.

12469 8-28-50 The Johnson Ranch; Underground; Stockwatering; Approved January 2, 1951, for 0.02125 c.f.s. G. S.

12470 8-28-50 The Johnson Ranch; Underground; Stockwatering and domestic; Approved January 2, 1951, for 0.05125 c.f.s. G. S.

12471 8-28-50 The Johnson Ranch; Underground; Stockwatering; Approved January 2, 1951, for 0.03125 c.f.s. G. S.

12472 8-28-50 Truckee-Carson Irrigation District; Rice Drains; Irrigation and Marsh Pasture; Approved March 1, 1951, for 25 c.f.s. G. S.

12473 8-28-50 Truckee-Carson Irrigation District; "L" Drain; Irrigation and Marsh Pasture; Approved March 1, 1951, for 50 c.f.s. G. S.

12474 8-28-50 Truckee-Carson Irrigation District; Carson Lake Drain; Irrigation and Marsh Pasture; Approved March 1, 1951, for 50 c.f.s. G. S.

12475 8-28-50 Las Vegas Thoroughbred Assn.; Underground; Race track operation; Application to change; Cancelled October 22, 1951, because of failure of applicant to comply with the provisions of the permit.

12476 8-28-50 Diamond Ltd. Corporation; Underground; Quasi-municipal; Denied August 14, 1951.

12477 8-29-50 Harry C. Foster; Underground; Irrigation and domestic; Approved March 14, 1951, for 0.05 c.f.s. G. S.

12478 9- 7-50 Lafayette Carter; Underground; Irrigation; Approved August 14, 1951, for 3.0 c.f.s. G. S.

12479 9- 7-50 Lafayette Carter; White River Slough; Irrigation; Protested; No action.

12480 9- 7-50 Nevada State Prison; Clear Creek; Irrigation, Stockwatering and domestic; Application to change withdrawn by applicant November 21, 1951.

12481 9-11-50 Bartholomae Corporation; Underground; Stockwatering; Protested; Application to change; No action.

12482 9-11-50 Bartholomae Corporation; Underground; Stockwatering; Protested; Application to change; Approved January 10, 1952, for 0.0275 c.f.s. G. S.

12483 9-11-50 Bartholomae Corporation; Hoover Spring; Stockwatering; Protested; Application to change; No action.

12484 9-11-50 Bartholomae Corporation; Rock Spring; Stockwatering; Protested; Application to change; No action.

12485 9-11-50 Bartholomae Corporation; Upper Davis Spring; Stockwatering and domestic; Protested; Application to change; Approved January 10, 1952, for 0.0154 c.f.s. G. S.

12486 9-11-50 Bartholomae Corporation; Lower Davis Spring; Stockwatering and domestic; Protested; Application to change; Approved January 10, 1952, for 0.0154 c.f.s. G. S.

12487 9-11-50 Bartholomae Corporation; Kinkead Spring; Stockwatering and domestic; Protested; Application to change; Approved January 10, 1952, for 0.0154 c.f.s.

12488 9-11-50 Bartholomae Corporation; Number Four Spring; Stockwatering; Protested; Application to change; Approved January 10, 1952, for 0.006 c.f.s.

12489 9-11-50 Bartholomae Corporation; Mayhe Well; Stockwatering; Protested; Application to change; No action.

12490 9-11-50 Bartholomae Corporation; Big Pump Well; Stockwatering; Protested; Application to change; No action.

13491 9-13-50 B. R. Robison; Chin Creek; Irrigation; Approved October 24, 1951, for 2.0 c.f.s. G. S.

13492 9-13-50 Anna D. Schindler; Underground; Irrigation and domestic; Approved September 5, 1951, for 0.05 c.f.s. G. S.

13493 9-15-50 Nevada National Forest (U. S. Forest Service); Twin Falls Spring; Domestic; Approved March 14, 1951, for 0.10 c.f.s. G. S.

13494 9-15-50 H. E. Rountree; Underground; Irrigation and domestic; Application to change; Approved January 2, 1951, for 2.2 c.f.s. G. S.

13495 9-18-50 City of Las Vegas; Sewage disposal and storm drainage water; Irrigation; Withdrawn by applicant August 13, 1951.

13496 9-18-50 Addison Brown; Underground; Milling and domestic; Protested; No action.

13497 9-20-50 B. D. and Aileen Lee Davis; Underground; Irrigation and domestic; Approved January 31, 1951, for 0.5 c.f.s. G. S.

13498 9-21-50 Fallini Bros.; Underground; Stockwatering; Protested; Application to change; Approved February 14, 1951, for 0.032 c.f.s. Certificate issued.

13499 9-21-50 Fallini Bros.; Underground; Stockwatering; Protested; Application to change; Approved February 14, 1951, for 0.002 c.f.s. Certificate issued.

13500 9-21-50 Fallini Bros.; Bucks Well; Stockwatering; Protested; Application to change; Approved February 14, 1951, for 0.032 c.f.s. Certificate issued.

13501 9-21-50 Fallini Bros.; Pyramid Spring; Stockwatering; Protested; Application to change; Approved February 14, 1951, for 0.032 c.f.s. Certificate issued.

13502 9-21-50 Fallini Bros.; Cedar and Sumner Springs; Stockwatering; Withdrawn by applicant December 12, 1950.

13503 9-25-50 Joe Urquiza; Underground; Irrigation; Approved February 16, 1951, for 1.5 c.f.s. G. S.

13504 9-27-50 Verne H. and Ralph G. Parman; Underground; Irrigation and domestic; Approved January 31, 1951, for 5.0 c.f.s. G. S.

13505 9-28-50 Rex B. Clark; Roadside Spring; Stockwatering; Approved March 2, 1951, for 0.0342 c.f.s. G. S.

13506 9-28-50 A. J. and Leota Van Fleet; West Walker River; Irrigation and domestic; Application to change; Approved March 27, 1951, for 1.84 c.f.s. G. S.

13507 10- 2-50 Earl D. Crinito; Underground; Quasi-municipal and domestic; Approved February 1, 1951, for 0.1 c.f.s. G. S.

13508 10- 4-50 William L. Meikle; Underground; Irrigation and domestic; Approved March 2, 1951, for 4.0 c.f.s. G. S.

13509 10- 4-50 William L. Meikle; Underground; Irrigation and domestic; Approved March 2, 1951, for 2.0 c.f.s. G. S.

13510 10- 6-50 Frederic A. Pike; Underground; Irrigation and domestic; Approved February 1, 1951, for 0.25 c.f.s. G. S.

13511 10- 6-50 U. S. of America, Fish and Wildlife Service; Fish Creek Spring; Wildlife and Stockwatering; Approved January 31, 1951, for 0.04 c.f.s. G. S.

13512 10- 6-50 U. S. of America, Fish and Wildlife Service; Bull Frog Spring; Wildlife and Stockwatering; Approved January 31, 1951, for 0.002 c.f.s. G. S.

13513 10- 6-50 U. S. of America, Fish and Wildlife Service; Horse Canyon Spring; Wildlife and Stockwatering; Approved January 31, 1951, for 0.002 c.f.s. G. S.

13514 10- 9-50 W. E. and Luella L. Cusper; Underground; Domestic and Irrigation; No action.

13515 10- 9-50 First National Bank of Nevada, Reno, Nevada; Underground; Domestic; Approved May 21, 1951, for 2.0 c.f.s. G. S.

13516 10-10-50 First National Bank of Nevada; Thomas Creek; Irrigation; Application to change; Approved February 1, 1951, for 6.316 c.f.s. G. S.

13517 10-11-50 James M. Daniels; Stinking Spring; Stockwatering; Protested; No action.

13518 10-13-50 Clover Livestock Co.; Underground; Stockwatering and domestic; Approved April 23, 1951, for 0.041 c.f.s. G. S.

13519 10-16-50 U. S. Dept. of the Interior, Fish and Wildlife Service; Yellow Jacket; Stock and Wildlife; Approved March 2, 1951, for 0.00056 c.f.s. Certificate issued.

13520 10-16-50 U. S. Dept. of the Interior, Fish and Wildlife Service; Sand Spring; Stock and Wildlife; Approved March 2, 1951, for 0.000004 c.f.s. Certificate issued.

13521 10-16-50 U. S. Dept. of the Interior, Fish and Wildlife Service; Tim Springs; Stock and Wildlife; Approved March 2, 1951, for 0.00056 c.f.s. Certificate issued.

13522 10-16-50 T. C. Barber; Underground; Irrigation and domestic; Approved September 5, 1951, for 1.60 c.f.s. G. S.

13523 10-19-50 Harry R. Claphain; Underground; Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13524 10-20-50 Pug Ike; Underground; Irrigation and domestic; Approved May 8, 1951, for 1.0 c.f.s. G. S.

13525 10-24-50 John M. Gunnerson; LVAH; Quasi-municipal; Approved April 5, 1951, for 0.50 c.f.s. G. S.

13526 10-30-50 U. S. Dept. of the Interior; Fish and Wildlife Service; Gas Spring; Stock and Wildlife; Approved September 24, 1951, for 0.00004 c.f.s. G. S.

13527 10-30-50 U. S. Dept. of the Interior, Fish and Wildlife Service; Upper White Blotch Spring; Stock and Wildlife; Approved September 24, 1951, for 0.0000326 c.f.s.

13528 10-30-50 U. S. Dept. of the Interior, Fish and Wildlife Service; Lower White Blotch Spring; Stock and Wildlife; Approved September 26, 1951, for 0.00004 c.f.s. G. S.

13529 10-30-50 U. S. Dept. of the Interior, Fish and Wildlife Service; White Spot Spring; Stock and Wildlife; Approved September 28, 1951, for 0.00045 c.f.s. G. S.

13530 10-30-50 Stephen Damele and Sons; Underground; Stockwatering; Approved November 20, 1951, for 0.5 c.f.s. G. S.

13531 10-30-50 Stephen Damele and Sons; Underground; Stockwatering; Cancelled October 5, 1951, because of failure to refile corrected application within statutory time.

13532 10-30-50 William T. Sturgis and Mrs. V. T. Whitney; Underground; Irrigation and domestic; Approved March 14, 1951, for 1.05 c.f.s. G. S.

13533 11- 6-50 Eugene Drumm; Underground; Irrigation and domestic; Protested; Approved May 1, 1951, for 2.0 c.f.s. G. S.

13534 11- 6-50 Hay Ranches, Inc.; Humboldt River; Irrigation; Application to change; Cancelled June 11, 1951 because of failure to refile corrected application within statutory time.

13535 11- 9-50 Dewey Dan; Underground; Irrigation; Approved October 5, 1951, for 2.0 c.f.s. G. S.

13536 11-13-50 Elzina Hollander; Silver Creek; Irrigation; Approved March 2, 1951, for 1.8 c.f.s. G. S.

13537 11-14-50 Grace Marovich; Willow Canyon Creek; Irrigation and domestic; Approved April 12, 1951, for 1.40 c.f.s. G. S.

13538 11-15-50 Lake Tahoe Conference Commission of the Synod of California of the General Assembly of the Presbyterian Church in the U. S. A.; Lake Tahoe; Domestic; Approved September 14, 1951, for 0.02 c.f.s. G. S.

13539 11-16-50 Fallini Bros.; Underground; Stockwatering; Approved July 10, 1951, for 0.032 c.f.s. Certificate issued.

13540 11-16-50 Fallini Bros.; Underground (Deep well); Stockwatering; Approved April 4, 1951, for 0.032 c.f.s. Certificate issued.

13541 11-16-50 Fallini Bros; Sumner Spring; Stockwatering; Application to change; Approved March 2, 1951, for 0.02 c.f.s. Certificate issued.

13542 11-16-50 Fallini Bros.; Cedar Spring; Stockwatering; Application to change; Approved March 2, 1951, for 0.025 c.f.s. Certificate issued.

13543 11-16-50 John J. Casey; Underground; Stockwatering; Protested; No action.

13544 11-16-50 John J. Casey; Underground; Stockwatering; Protested; No action.

13545 11-16-50 John J. Casey; Underground (Hipo Well); Stockwatering; No action.

13546 11-16-50 John J. Casey; Underground (Narrows Well); Stockwatering; Protested; No action.

13547 11-16-50 John J. Casey; Underground (Cannonball Well); Stockwatering; Protested; No action.

13548 11-16-50 John J. Casey; Underground; Stockwatering; Protested; No action.

13549 11-16-50 John J. Casey; Underground; Stockwatering; Approved May 23, 1951, for 0.033 c.f.s. G. S.

13550 11-17-50 R. T. Adams; Ash Canyon Creek and Tributaries (also known as Gregory Canyon Creek); Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13551 11-20-50 Oxy D. Davis; Underground; Irrigation; Protested; Approved April 6, 1951, for 4.0 c.f.s. G. S.

13552 11-20-50 Malvin Fedroli; Unnamed Spring; Stockwatering; No action.

13553 11-22-50 United States of America, Forest Service; Seep Spring, Tributary of Snake Spring; Domestic; Approved August 14, 1951, for 0.02 c.f.s. G. S.

13554 11-24-50 Joseph W. and Lizzie Ford; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1951.

13555 11-24-50 Joseph W. and Lizzie Ford; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1951.

13556 11-24-50 Dwight G. Vedder; Underground; Irrigation and domestic; No action.

13557 11-24-50 Dwight G. Vedder; Underground; Irrigation and domestic; Approved May 1, 1951, for 4.8 c.f.s. G. S.

13558 11-24-50 Dwight G. Vedder; Underground; Irrigation and domestic; No action.

13559 11-24-50 Clyde Franklin; Underground; Irrigation and domestic; Approved April 4, 1951, for 2.4 c.f.s. G. S.

13560 11-24-50 Clyde Franklin; Underground; Irrigation and domestic; Approved April 4, 1951, for 2.4 c.f.s. G. S.

13541 11-24-50 Jim Philip Sanchez; Underground; Farming and domestic; Approved April 28, 1952, for 3.0 c.f.s. G. S.

13542 11-24-50 C. H. Sloan; Underground; Irrigation and domestic; Approved March 14, 1951, for 0.40 c.f.s. G. S.

13563 11-27-50 Lester Dudley Mayfield; Underground; Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13564 11-27-50 Jimmie Nelson Mayfield; Underground; Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13565 11-28-50 Victor Neeley; LVAS; Domestic and irrigation; Approved May 29, 1951, for 0.06 c.f.s. G. S.

13566 11-29-50 John A. Davis; Underground; Irrigation and domestic; No action.

13567 12- 4-50 Willard and Leland Petersen, and Clarence Keller; Ferguson Spring; Stockwatering; Cancelled September 13, 1951, because of failure to refile corrected application within statutory time.

13568 12- 5-50 Pacific States Savings & Loan Co.; Jake Creek; Irrigation; Protested; No action.

13569 12-13-50 James Bobb; Willow Creek; Irrigation and domestic; Cancelled May 21, 1951, because of failure to refile corrected application within statutory time.

13570 12-13-50 John, Hattie S., Joseph, Harriet W., and Charles R. Kippen; Ferguson Spring; Stockwatering; No action.

13571 12-13-50 Black Springs Improvement Assn., Inc.; Underground; Quasi-municipal; No action.

13572 12-13-50 Black Springs Improvement Assn., Inc.; Underground; Quasi-municipal; No action.

13573 12-13-50 Fred R. Harrell; Underground; Irrigated; Protested; Approved May 1, 1951, for 3.5 c.f.s. G. S.

13574 12-19-50 Mrs. H. H. Heisler; Underground; Domestic and irrigation; Approved July 19, 1951, for 0.10 c.f.s. G. S.

13575 12-20-50 Viola M. Sauer and Ella M. Campbell, formerly Ella M. Smith and Ella M. Bailey; Galena Creek; Irrigation; Application to change; Approved April 6, 1951, for 271.5 c.f.s. G. S.

13576 12-20-50 R. H. Conklin; Underground; Irrigation and domestic; Approved June 7, 1951, for 1.45 c.f.s. Certificate issued.

13577 12-20-50 R. H. Conklin; Underground; Irrigation and domestic; Approved June 7, 1951, for 2.79 c.f.s. Certificate issued.

13578 12-20-50 R. H. Conklin; Underground; Irrigation and domestic; Approved June 7, 1951, for 1.94 c.f.s.

13579 12-20-50 R. H. Conklin; Underground; Irrigation and domestic; Approved June 7, 1951, for 1.00 c.f.s.

13580 12-26-50 Raymond Labarry; Underground; Stockwatering; Protested; No action.

13581 12-26-50 D. V. Ames and J. K. Pequegnat; Underground; Quasi-municipal; Approved May 18, 1951, for 0.1 c.f.s. G. S.

13582 12-26-50 Henry E. and Minnie E. Heidenreich; Dural or Eat Spring; Irrigation and domestic; Protested; Withdrawn June 17, 1952.

13583 12-29-50 Bartholomae Corporation; Duckwater Creek surplus and unappropriated water; Irrigation and domestic; Protested; No action.

13584 1- 2-51 C. H. Moerman, Milo Smith, Jess Gardner, W. C. Goodman, Walter and Joe Reservoir, and Nevin Munson; Illipah Creek; Stockwatering; Approved April 23, 1951, for 0.063 c.f.s. Certificate issued.

13585 1- 2-51 Donald G. Mitchell; Job's Canyon Creek; Irrigation and domestic; Protested; No action.

13586 1- 2-51 Rodney N. Hudson; Underground; Irrigation; Approved September 18, 1951, for 3.0 c.f.s. G. S.

13587 1- 5-51 C. D. Baker; Underground; Irrigation and domestic; Approved May 21, 1951, for 0.4 c.f.s. G. S.

13588 1- 5-51 Henry Cleveland Schultz; Underground; General hotel supply and domestic; Approved May 1, 1951, for 0.05 c.f.s. G. S.

13589 1- 5-51 Henry Cleveland Schultz; Underground; General hotel supply and domestic; Approved April 12, 1951, for 0.05 c.f.s. G. S.

13590 1- 5-51 Silas Cordes; Blue Jacket Creek; Mining, milling and domestic; Cancelled August 27, 1951, because of failure of applicant to comply with the provisions of permit.

13591 1- 5-51 Mr. and Mrs. L. F. Cochran; Upper Pasture Springs; Irrigation and domestic; No action.

13592 1-11-51 Loren C. Nesler; Underground; Milling; Cancelled August 27, 1951, because of failure to refile corrected application and map within statutory time.

13593 1-12-51 Ruth Dieleman and C. D. Baker; Underground; Quasi-municipal; Approved May 21, 1951, for 0.3 c.f.s. G. S.

13594 1-12-51 J. W. Wilson; Underground; Quasi-municipal; Approved May 21, 1951, for 0.3 c.f.s. G. S.

13595 1-12-51 Walter G. Nagel; Underground; Irrigation; Approved May 1, 1951, for 3.7 c.f.s. G. S.

13596 1-12-51 Robert E. Lee; Underground; Irrigation and domestic; Denied July 23, 1951.

13597 1-15-51 Don S. Christiansen; Underground; Stockwatering and domestic; Approved November 29, 1951, for 0.025 c.f.s. G. S.

13598 1-15-51 Martin Elecigui; Underground; Stockwatering; Approved November 29, 1951, for 0.025 c.f.s. G. S.

13599 1-15-51 Sweetwater Ranch Co.; Underground; Irrigation; Approved July 18, 1951, for 0.75 c.f.s. G. S.

13600 1-15-51 C. R. Moorman and Milo W. Smith; Underground; Stockwatering; Approved May 1, 1951, for 0.0125 c.f.s. G. S.

13601 1-15-51 Thomas H. Work; Underground; Irrigation and domestic; Withdrawn by applicant February 24, 1951.

13602 1-15-51 Mary E. Kessler; Underground; Domestic; Withdrawn by applicant February 5, 1951.

13603 1-16-51 Rene W. Lemaire; Underground; Irrigation and domestic; Protested; No action.

13604 1-16-51 James M. Daniels; West Spring; Stockwatering; Application to change; Approved April 12, 1951, for 0.005 c.f.s. G. S.

13605 1-16-51 T. C. Pedroli and J. P. Nougue; Underground; Irrigation and domestic; Approved October 24, 1951, for 1.6 c.f.s. G. S.

13606 1-16-51 T. C. Pedroli and J. P. Nougue; Underground; Irrigation and domestic; Approved October 24, 1951, for 2.2 c.f.s. G. S.

13607 1-22-51 Harvey S. Hale; Cow Creek; Irrigation; Protested; No action.

13608 1-22-51 Harvey S. Hale; Willow Creek; Irrigation; Protested; No action.

13609 1-24-51 Monpa Stake of Church of Jesus Christ of Latter Day Saints, a Corporation, Sole; Underground; Irrigation and domestic; Approved July 19, 1951, for 1.31 c.f.s. G. S.

13610 1-24-51 Monpa Stake of Church of Jesus Christ of Latter Day Saints, a Corporation, Sole; Underground; Irrigation and domestic; Approved July 10, 1951, for 0.4 c.f.s. G. S.

13611 1-25-51 Martha S. Guicochea; Minaletti Spring Channel; Irrigation; Approved June 7, 1951, for 1.0 c.f.s. G. S.

13612 1-25-51 Dan S. Berg; Belcher Creek; Irrigation and domestic; Approved June 25, 1951, for 2.0 c.f.s. G. S.

13613 1-26-51 Charlie Allison; Willow Creek; Irrigation; Protested; No action.

13614 1-29-51 Bessie L., Lyle L., Claude L. Ellison and Melba Ellison Jackson; Underground; Irrigation and stockwatering; Cancelled August 27, 1951, because of failure of applicant to comply with provisions of permit.

13615 1-29-51 Bessie L., Lyle L., Claude L. Ellison and Melba Ellison Jackson; Underground; Irrigation and stockwatering; Cancelled August 27, 1951, because of failure of applicant to comply with provisions of permit.

13616 1-29-51 Bessie L., Lyle L., Claude L. Ellison and Melba Ellison Jackson; Underground; Irrigation and stockwatering; Cancelled August 27, 1951, because of failure of applicant to comply with provisions of permit.

13617 1-29-51 Bessie L., Lyle L., Claude L. Ellison and Melba Ellison Jackson; Underground; Irrigation and stockwatering; Cancelled August 27, 1951, because of failure of applicant to comply with provisions of permit.

13618 1-29-51 Bessie L., Lyle L., Claude L. Ellison and Melba Ellison Jackson; Underground; Irrigation and stockwatering; Cancelled August 27, 1951, because of failure of applicant to comply with provisions of permit.

13619 1-29-51 Bessie L., Lyle L., Claude L. Ellison and Melba Ellison Jackson; Underground; Irrigation and stockwatering; Cancelled October 5, 1951, because of failure to refile corrected application within statutory time.

13620 1-29-51 John J. Casey; Underground; Stockwatering; Protested; No action.

13621 1-29-51 John J. Casey; Liberty Spring; Stockwatering; No action.

13622 1-29-51 John J. Casey; Underground; Stockwatering; Protested; No action.

13623 1-29-51 John J. Casey; Underground; Stockwatering; Protested; No action.

13624 1-29-51 John J. Casey; Underground; Stockwatering; Protested; No action.

13625 1-29-51 John J. Casey; Silver Ben Spring; Stockwatering; Protested; No action.

13626 1-30-51 Theodore Michelas; Underground; Quasi-municipal; Approved May 21, 1951, for 0.5 c.f.s. G. S.

13627 1-30-51 O. L. and T. G. Sheppard; Underground; Irrigation and domestic; Protested; Approved May 21, 1952, for 4.0 c.f.s. G. S.

13628 2- 1-51 Prudential Homes; Underground; Quasi-municipal; Approved May 29, 1951, for 0.5 c.f.s. G. S.

13629 2- 1-51 Earl O. V. and Dorothy M. Gregory; Underground; Irrigation and domestic; Approved May 18, 1951, for 0.04 c.f.s. O. S.

13630 2- 1-51 A. M. and F. M. Crosby and J. P. Burke; Underground; Irrigation and domestic; Approved May 29, 1951, for 1.0 c.f.s. Certificate issued.

13631 2- 1-51 E. Z. Graham; Underground; Irrigation and domestic; Cancelled August 27, 1951, because of failure of applicant to comply with the provisions of permit.

13632 2- 2-51 Thomas Ormachea; Meadow Spring; Stockwatering; Protested; Application to change; No action.

13633 3- 6-51 C. and D. Glaser; Underground; Irrigation and domestic; Approved November 29, 1951, for 3.0 c.f.s. G. S.

13634 3- 8-51 Ruth Cutten; Underground; Irrigation and domestic; Application to change; Approved May 18, 1951, for 1.0 c.f.s. G. S.

13635 3-12-51 V. R. and R. G. Parman; Flood and excess waters of Denelly Creek; Irrigation and domestic; Protested; No action.

13636 3-12-51 V. R. and R. G. Parman; Underground; Irrigation and domestic; Protested; Approved July 16, 1951, for 2.50 c.f.s. G. S.

13637 3-15-51 G. Hillygus, H. E. Hazard and C. D. Baker; Underground; Irrigation and domestic; Approved June 13, 1951, for 2.0 c.f.s. G. S.

13638 3-15-51 Louis Adams; Muddy River Flood Channel; Irrigation; Approved June 25, 1951, for 0.50 c.f.s. G. S.

13639 3-15-51 C. D. Baker; Colorado River; Irrigation and domestic; Approved June 13, 1951, for 1.8 c.f.s. G. S.

13640 3-19-51 George T. Baker; Underground; Irrigation and domestic; Approved November 30, 1951, for 1.50 c.f.s. G. S.

13641 3-23-51 George W. Frisby; Underground; Quasi-municipal and domestic; Approved June 25, 1951, for 0.20 c.f.s. G. S.

13642 3-23-51 George A. Myles; Underground; Irrigation and domestic; Approved October 3, 1951, for 4.0 c.f.s. G. S.

13643 3-23-51 Bessie L. Lyle L., Claude L. Ellison and Melba Ellison Jackson; Quine River; Irrigation; Cancelled October 3, 1951, because of failure to refile corrected application within statutory time.

13644 3-26-51 Arthur K. Howd; Underground; Irrigation and domestic; Approved July 20, 1951, for 2.0 c.f.s. G. S.

13645 3-26-51 E. O. Weeks; Underground; Irrigation and domestic; Withdrawn by applicant September 13, 1951.

13646 3-26-51 E. O. Weeks; Underground; Withdrawn by applicant September 13, 1951.

13647 3-26-51 E. O. Weeks; Withdrawn by applicant September 13, 1951.

13648 3-28-51 Nylen Motel; Underground; Quasi-municipal and domestic; Approved June 25, 1951, for 0.35 c.f.s. G. S.

13649 3- 2-51 Albert L. Jones; Underground; Irrigation and domestic; Protested; Approved September 3, 1951, for 1.40 c.f.s. G. S.

13650 3- 2-51 Robert Stuckl; Underground; Irrigation and domestic; Protested; Approved September 17, 1951, for 2.5 c.f.s. G. S.

13651 3- 2-51 James L. Ritchen; Underground; Irrigation; Denied January 28, 1952.

13652 3- 5-51 Katherine Aguilera; Spring Hill; Irrigation and domestic; Approved July 25, 1951, for 0.03 c.f.s. G. S.

13653 3- 5-51 David F. or Helen A. Abel, Albert H. or Gladis Peterson; Jacks Spring; Mining and domestic; Approved December 17, 1951, for 0.75 c.f.s. G. S.

13654 3- 8-51 George Skelstead; Underground; Quasi-municipal and domestic; Approved June 25, 1951, for 0.1 c.f.s. G. S.

13655 3-14-51 Bozarth & Rudnick; Stewart No. 1 Spring; Stockwatering; Protested; No action.

13656 3-14-51 Bozarth & Rudnick; Stewart No. 2 Spring; Stockwatering; Protested; No action.

13657 3-14-51 Fred, Pietrina, and Leroy Etchegaray; Ferguson Spring; Irrigation; Approved February 1, 1952, for 1.6 c.f.s. G. S.

13658 3-14-51 Fred, Pietrina, and Leroy Etchegaray; Unnamed stream and springs in Grub Canyon; Irrigation; Approved January 24, 1952, for 1.6 c.f.s. G. S.

13659 3-19-51 Sidney H. Smyth, Jr.; Underground; Irrigation and domestic; Approved January 29, 1952, for 4.0 c.f.s. G. S.

13660 3-21-51 Grover and Andrew F. Jackson; Underground; Irrigation and domestic; Cancelled November 2, 1951, because of failure to refile corrected application within statutory time.

13661 3-21-51 William M. Turner; Underground; Irrigation and domestic; Approved September 5, 1951, for 1.0 c.f.s. G. S.

13662 3-21-51 Gordon W. Bettles; Underground; Irrigation and domestic; Cancelled October 3, 1951, because of failure to refile corrected application within statutory time.

13663 3-21-51 C. H. and Theo M. Elstner; Underground; Domestic and irrigation; Approved July 20, 1951, for 2.0 c.f.s. G. S.

13664 3-29-51 Jack Wollenzien; Underground; Irrigation and domestic; Approved July 10, 1951, for 1.5 c.f.s. G. S.

13665 3-29-51 Fred M. and Juanita M. Begull; Underground; Domestic and irrigation; Approved July 19, 1951, for 0.03 c.f.s. Cancelled May 15, 1952, because of failure of applicant to comply with provisions of permit.

13666 3-29-51 Frank B. and F. J. Brandt; Underground; Domestic and irrigation; Approved September 5, 1951, for 0.05 c.f.s. G. S.

13667 4- 2-51 E. S. Bowman; Underground; Irrigation and domestic; No action.

13668 4- 2-51 E. S. Bowman; Underground; Irrigation and domestic; Approved November 8, 1951, for 2.0 c.f.s. G. S.

13669 4- 2-51 Perry L. Bowman; Underground; Irrigation and domestic; Approved October 24, 1951, for 1.50 c.f.s. G. S.

13670 4- 2-51 A. J. Frehner; Underground (PVB); Irrigation and domestic; No action.

13671 4- 3-51 Zelma T. and Hazen Exeter; Duckwater Creek; Irrigation; Approved February 26, 1952, for 5.0 c.f.s. G. S.

13672 4- 3-51 George Levalley, James Grousd, and L. E. McKinney; Marble Falls Spring; Mining and domestic; Cancelled December 5, 1951, because of failure to refile corrected application within statutory time.

13673 4- 3-51 Roy Visbeck; Underground; Irrigation and domestic; Approved July 20, 1951, for 4.0 c.f.s. G. S.

13674 4- 3-51 Pete Etcheverry; Lower Grub Canyon Wash; Irrigation; Approved January 28, 1952, for 1.6 c.f.s. G. S.

13675 4- 3-51 Dan S. Berg and B. W. Rogers; Gold Hill Spring; Stockwatering. No action.

13676 4-16-51 Sam R. Bates; Underground; Irrigation; Approved October 24, 1951, for 4.0 c.f.s. G. S.

13677 4-10-51 Robert S. and Mary R. Gilbert; Sugar Cane Springs; Irrigation; Approved July 10, 1951, for 6.0 c.f.s. G. S.

13678 4-12-51 Bartholomae Corporation; Bradford Spring; Stockwatering; Approved July 20, 1951, for 0.0065 c.f.s. G. S.

13679 4-12-51 John J. Casey; Underground; Stockwatering; Protested; No action.

13680 4-12-51 Sam R. Bates; Unnamed Spring; Domestic; Approved September 5, 1951, for 0.015 c.f.s. G. S.

13681 4-16-51 Fred J. Ruffi; Underground; Irrigation and domestic; Approved February 28, 1952, for 2.50 c.f.s. G. S.

13682 4-16-51 E. D. Halstead; Underground; Stockwatering; Protested; No action.

13683 4-16-51 E. D. and Beatrice R. Halstead; Monte Cristo Spring; Stockwatering; Application to change; Approved December 17, 1951, for 0.016 c.f.s. G. S.

13684 4-16-51 Harvey S. Hale; Shoshone Creek; Irrigation and domestic; No action.

13685 4-16-51 Harvey S. Hale; Trout Creek; Irrigation and domestic; No action.

13686 4-23-51 Dodge Construction, Inc.; Underground; Milling; Approved October 24, 1951, for 0.504 c.f.s. G. S.

13687 4-24-51 Arthur V. Heller; Underground; Livestock; No action.

13688 4-27-51 James L. Filbey; Underground; Irrigation and domestic; Approved September 5, 1951, for 0.20 c.f.s. G. S.

13689 4-30-51 Roger F. Reynolds; Underground; Irrigation and domestic; Approved February 15, 1952, for 0.1 c.f.s. G. S.

13690 4-30-51 Virgil James and Ellen L. Wall; Underground; Domestic and irrigation; No action.

13691 4-30-51 John Ezra and Beulah E. McCowan; Underground; Domestic and irrigation; Approved October 3, 1951, for 2.0 c.f.s.

13692 4-30-51 Leland McArthur; Underground; Domestic and irrigation; Approved January 28, 1952, for 0.08 c.f.s. G. S.

13693 5- 2-51 Jack P. and Ann P. Barnett and Paul R. Hayward; Red Rock Spring; Domestic and irrigation; Approved May 20, 1952, for 0.2 c.f.s. G. S.

13694 5- 3-51 Ernest B. Pechstein; Underground. Irrigation and domestic; Approved September 5, 1951, for 2.0 c.f.s. G. S.

13695 5- 3-51 Ernest B. Pechstein; Underground; Irrigation and domestic; Approved September 5, 1951, for 2.0 c.f.s. G. S.

13696 5- 3-51 Ernest B. Pechstein; Underground; Irrigation and domestic; Approved September 5, 1951, for 2.0 c.f.s. G. S.

13697 5- 3-51 Ernest B. Pechstein; Underground; Irrigation and domestic; Protested; No action.

13698 5- 3-51 I. King and Gould Enterprise; Underground; Quasi-municipal and domestic; Approved July 24, 1951, for 0.15 c.f.s. G. S.

13699 5- 3-51 I. King and Gould Enterprise; Underground; Quasi-municipal and domestic; Approved July 24, 1951, for 0.15 c.f.s. G. S.

13700 5- 3-51 Lynn Roscoe Scott; LVAB; Irrigation and domestic; No action.

13701 5- 3-51 Segura Bros.; South Flat Spring; Stockwatering; Protested; No action.

13702 5- 3-51 Segura Bros.; Horse Spring; Stockwatering; Protested; No action.

13703 5- 3-51 Segura Bros.; Road Canyon Spring; Stockwatering; Protested; No action.

13704 5- 351 Segura Bros.; Willow Spring; Stockwatering; Protested; No action.

13705 5- 3-51 Segura Bros.; South Spring; Stockwatering; Protested; No action.

13706 5- 7-51 Pete Etcheverry; Ferguson Spring; Irrigation; Approved September 17, 1951, for 1.0 c.f.s. G. S.

13707 5- 7-51 Adam Welch; Humboldt River; Irrigation and domestic; Application to change; No action.

13708 5- 9-51 Eureka Livestock Co. Underground; Stockwatering and domestic; Protested; No action.

13709 5- 9-51 Wilbur Clark's Desert Inn Co.; Underground; Recreational and domestic; Approved July 30, 1951, for 0.3 c.f.s. G. S.

13710 5- 9-51 Wilbur Clark's Desert Inn Co.; Underground; Recreational and domestic; Approved July 30, 1951, for 0.3 c.f.s. G. S.

13711 5- 9-51 Wilbur Clark's Desert Inn Co.; Underground; Recreational and domestic; Approved July 30, 1951, for 0.4 c.f.s. G. S.

13712 5-10-51 L. L. Larsen, Mayor, acting for the City of Hawthorne; Summit Springs; Domestic; Protested; No action.

13713 5-10-51 L. L. Larsen, Mayor, acting for the City of Hawthorne; Little Squaw Spring; Domestic; Protested; No action.

13714 5-14-51 Truckee-Carson Irrigation District; Unnamed Channel; Irrigation and wildlife; Cancelled December 5, 1951, because of failure to refile corrected application within statutory time.

13715 5-14-51 J. H. and Gladys Meyers; Underground (LVAH); Quasi-municipal and golf course; Approved October 1, 1951, for 0.50 c.f.s. G. S.

13716 5-14-51 J. H. and Gladys Meyers; Underground (LVAH); Quasi-municipal and golf course; Approved October 1, 1951, for 0.50 c.f.s. G. S.

13717 5-14-51 Lauren M. Woods; Underground; Irrigation and domestic; No action.

13718 5-14-51 Thomas S. Woods, Sr.; Underground; Irrigation and domestic; Withdrawn by applicant October 30, 1951.

13719 5-15-51 Henry Filippini; Underground; Irrigation and domestic; Approved March 24, 1952, for 4.0 c.f.s. G. S.

13720 5-15-51 Henry Filippini; Underground; Irrigation and domestic; Approved March 24, 1952, for 3.0 c.f.s. G. S.

13721 5-15-51 Jack S. Rancher, Jr.; Underground; Irrigation and domestic; Approved September 14, 1951, for 3.50 c.f.s. G. S.

13722 5-15-51 James W. Newman; Underground; Irrigation; Approved September 14, 1951, for 3.50 c.f.s. G. S.

13723 5-16-51 Bartholomae Corp.; Fish Creek Springs; Irrigation; Approved October 3, 1951, for 13.0 c.f.s. G. S.

13724 5-16-51 Allison Smith; Underground; Quasi-municipal and domestic; Approved November 20, 1951, for 0.5 c.f.s. G. S.

13725 5-17-51 Dow Metals, Inc.; Underground; Mining, milling and domestic; Cancelled December 5, 1951, because of failure to refile corrected application within statutory time.

13726 5-18-51 Ted M. Thompson; Davis Canyon Well; Stockwatering; Protested; No action.

13727 5-18-51 Ted M. Thompson; Five Mile Canyon Well; Stockwatering; Protested; No action.

13728 5-18-51 Ted M. Thompson; Box Canyon Well; Irrigation and domestic; Approved October 3, 1951, for 2.0 c.f.s. G. S.

13729 5-21-51 James D. Williams; South Lincoln Canyon Springs; Mining, milling, domestic and power; Cancelled December 5, 1951, because of failure to refile corrected application within statutory time.

13730 5-21-51 Edward H. Cote; Underground; Irrigation and domestic; Cancelled December 5, 1951, because of failure to refile corrected application within statutory time.

13731 5-21-51 Charles H. Barber; Underground; Irrigation and domestic; No action.

13732 5-21-51 Marsam Enterprises, Inc.; Spanish Canyon Creek; Mining, milling and domestic; Protested; No action.

13733 5-24-51 James Cashman; Underground; Quasi-municipal and domestic; Approved September 17, 1951, for 0.40 c.f.s. G. S.

13734 5-25-51 Richard N. Barnaba; Underground; Irrigation and domestic; Approved October 3, 1951, for 1.0 c.f.s. G. S.

13735 5-28-51 Gabbs Exploration Co.; Underground; Mining and domestic; Approved October 1, 1951, for 0.25 c.f.s. G. S.

13736 5-28-51 Wm. A. Bartholomae, Jr.; Lime Water Hole; Stockwatering and domestic; No action.

13737 5-31-51 Roy E. Lyttle; Underground; Irrigation; Approved October 1, 1951, for 2.0 c.f.s. G. S.

13738 6- 4-51 Ray W. Suter; Underground; Milling and domestic; Approved November 15, 1951, for 0.25 c.f.s. G. S.

13739 6- 5-51 Argentum Mining Co.; Underground; Milling and domestic; Approved December 17, 1951, for 0.50 c.f.s. G. S.

13740 6- 6-51 Harvey S. Hale; Cow Creek; Irrigation; No action.

13741 6- 8-51 C. R. Quinlisk & Co.; Underground; Mining, milling and domestic; Approved February 14, 1952, for 0.4 c.f.s. G. S.

13742 6- 8-51 B. A. and Agnes M. Johnson; Underground; Irrigation and domestic; Approved December 10, 1951, for 0.50 c.f.s. G. S.

13743 6-11-51 R. T. Adams; Truxton; Ash Canyon Creek and tributaries; Irrigation and domestic; No action.

13744 6-11-51 W. L. Peterson; Underground; Irrigation and domestic; No action.

13745 6-11-51 W. L. Peterson; Underground; Irrigation and domestic; Protested; No action.

13746 6-11-51 D. L. Gandolfo; Underground; Irrigation and domestic; Protested; No action.

13747 6-13-51 Patricia, Jack, Theodore, and Anna Kaufman; Underground; Irrigation and domestic; Approved January 28, 1952, for 0.01 c.f.s. G. S.

13748 6-13-51 Louise Pereira; Forty Mile Canyon; Irrigation and domestic; Cancelled December 5, 1951, because of failure to refile corrected application within statutory time.

13749 6-13-51 Ilsen F. W. and Bernard C. Hartung; Underground; Irrigation; Approved January 16, 1952, for 1.0 c.f.s. G. S.

13750 6-14-51 Eugene P. Clark; Newton Creek; Irrigation and domestic; No action.

13751 6-14-51 Wm. Cooney, Sr. and Sons; Brown Station Springs; Milling; Approved October 29, 1951, for 1.0 c.f.s. G. S.

13752 6-16-51 J. E. and/or Marian M. Stead; Underground; Irrigation and domestic; Approved October 24, 1951, for 3.0 c.f.s. G. S.

13753 6-21-51 Wm. B. Fate; Underground; Mining and domestic; Approved November 30, 1951, for 3.0 c.f.s. G. S.

13754 6-22-51 U. S. Fish and Wildlife; Buck Spring; Stockwatering and wildlife; Approved December 21, 1951, for 0.001 c.f.s. G. S.

13755 6-25-51 U. S. Fish and Wildlife; Rose Spring; Stockwatering and wildlife; Approved December 21, 1951, for 0.0005 c.f.s. G. S.

13756 6-25-51 U. S. Fish and Wildlife; Bud Spring; Stockwatering and wildlife; Approved December 21, 1951, for 0.0005 c.f.s. G. S.

13757 6-27-51 Frank J. Schneebagen; Underground; Quasi-municipal and domestic; Approved October 24, 1951, for 0.015 c.f.s. G. S.

13758 6-28-51 B. H. Robison; Chin Creek; Stockwatering; Protested; Approved June 13, 1952, for 0.0155 c.f.s. G. S.

13759 6-28-51 Mrs. F. J. and Oscar W. Marquardt; Unnamed Spring; Stockwatering and domestic; Cancelled December 10, 1951, because of failure to refile corrected application within statutory time.

13760 6-29-51 W. H. Hutchings; Moon River Spring; Irrigation; Application to change; Approved January 10, 1952, for 5.0 c.f.s. G. S.

13761 6-29-51 B. H. Robison; Meadow Spring; Stockwatering; Protested; No action.

13762 7- 2-51 George H. Guber; Underground; Stockwatering; Approved October 24, 1951, for 0.10 c.f.s. G. S.

13763 7- 9-51 Segura Bros.; Underground; Stockwatering; Protested; No action.

13764 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.67 c.f.s. Certificate issued.

13765 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.30 c.f.s. Certificate issued.

13766 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.50 c.f.s. Certificate issued.

13767 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.30 c.f.s. Certificate issued.

13768 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.55 c.f.s. Withdrawn by applicant June 3, 1952.

13769 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.55 c.f.s. G. S.

13770 7- 9-51 U. S. Air Force; Underground; Quasi-municipal; Approved October 24, 1951, for 0.55 c.f.s. G. S.

13771 7- 9-51 Isbell Construction Co.; Underground; Mining; Approved November 8, 1951, for 0.50 c.f.s. G. S.

13772 7-11-51 A. S. Proctor and Jack Thomas; Underground; Quasi-municipal and domestic; Approved October 24, 1951, for 0.10 c.f.s. G. S.

13773 7-11-51 South Las Vegas Court; Underground; Quasi-municipal and domestic; Approved October 24, 1951, for 0.10 c.f.s. G. S.

13774 7-11-51 Andrew C. Pautherez; Underground; Irrigation and domestic; No action.

13775 7-13-51 Wm. M. and Evelyn H. Johnstone; Underground; Irrigation and domestic; No action.

13776 7-16-51 Bartholomus Corporation; Cockalorum Spring; Stockwatering; Cancelled May 15, 1952, because of failure to refile corrected application within statutory time.

13777 7-16-51 U. S. Fish and Wildlife; Lower Deer Spring; Stockwatering and wildlife; Approved November 14, 1951, for 0.0001 c.f.s. G. S.

13778 7-16-51 U. S. Fish and Wildlife; Upper Deer Spring; Stockwatering and wildlife; Approved November 14, 1951, for 0.0001 c.f.s. G. S.

13779 7-16-51 U. S. Fish and Wildlife; Bluff Spring; Stockwatering and wildlife; Approved November 14, 1951, for 0.0005 c.f.s. G. S.

13780 7-16-51 U. S. Fish and Wildlife; Cougar Spring; Stockwatering and wildlife; Approved November 14, 1951, for 0.0005 c.f.s. G. S.

13781 7-17-51 David K. Ivason; Underground; Irrigation and domestic; No action.

13782 7-17-51 James Babb; Willow Creek; Irrigation and domestic; Approved November 30, 1951, for 0.80 c.f.s. G. S.

13783 7-23-51 U. S. Fish and Wildlife; Quail Spring; Stockwatering and wildlife; Approved January 28, 1952, for 0.001 c.f.s. G. S.

13784 7-23-51 M. F. Mills; Jumbo Spring; Stockwatering and domestic; Approved November 30, 1951, for 0.041 c.f.s. G. S.

13785 7-30-51 Carl E. Heur; Underground; Irrigation and domestic; Withdrawn by applicant March 23, 1952.

13786 7-30-51 M. M. Horsman; Underground; Irrigation and domestic; Approved November 15, 1951, for 0.50 c.f.s. G. S.

13787 8- 1-51 Freeman E. Fairfield; Underground; Irrigation and domestic; No action.

13788 8- 1-51 Freeman E. Fairfield; Underground; Irrigation and domestic; No action.

13789 8- 3-51 Dow Metals, Inc.; Underground; Milling; Approved February 27, 1952, for 0.50 c.f.s. G. S.

13790 8- 6-51 Monitor Livestock Co.; Rye Patch Channel; Stockwatering; Protested; No action.

13791 8- 3-51 Dwight G. Vedder; Little Humboldt River and tributaries; Irrigation and domestic; No action.
13792 8- 3-51 Dwight G. Vedder; Martin Creek and tributaries; Irrigation and domestic; No action.
13793 8- 3-51 Dwight G. Vedder; Cottonwood Creek and tributaries; Irrigation and domestic; No action.
13794 8- 3-51 Dwight G. Vedder; Cottonwood Creek and tributaries; Irrigation and domestic; No action.
13795 8-13-51 E. S. Bowman; Elmer's Spring; Stockwatering; Approved November 15, 1951, for 0.04 c.f.s. G. S.
13796 8-13-51 Freeman E. Fairfield; Underground; Domestic; Approved January 10, 1952, for 0.10 c.f.s. G. S.
13797 8-13-51 Wm. T. Sturgis and Mrs. V. T. Whitney; Underground; Irrigation and domestic; Approved February 15, 1952, for 1.67 c.f.s. G. S.
13798 8-13-51 Wm. T. Sturgis and Mrs. V. T. Whitney; West Fork Carson River; Irrigation; Application to change; Approved May 8, 1952, for 0.14 c.f.s. G. S.
13799 8-14-51 Edward L. Conley; Underground; Irrigation and domestic; No action.
13800 8-16-51 David F. and Daisy M. Harris; Underground; Milling; Approved April 2, 1952, for 1.0 c.f.s. G. S.
13801 8-20-51 Chas. Cecchini; Alkali Springs; Stockwatering; Protested; No action.
13802 8-20-51 Charles E. Roberts; Underground; Mining, milling and domestic; Approved March 24, 1952, for 1.0 c.f.s. G. S.
13803 8-22-51 Albert F. Delmue; Underground; Irrigation and domestic; No action.
13804 8-22-51 Kenneth Searles; Underground; Irrigation; Approved June 18, 1952, for 3.0 c.f.s. G. S.
13805 8-23-51 City of Wells; Underground; Irrigation, domestic and municipal; Approved December 17, 1951, for 1.0 c.f.s. G. S.
13806 8-24-51 Fred Gribble; Cold Spring; Stockwatering and domestic; No action.
13807 8-27-51 Dixie Valley Cattle Corporation; Seven Devils Spring; Irrigation and domestic; No action.
13808 8-27-51 Dixie Valley Cattle Corporation; Burma Road Spring; Stockwatering; No action.
13809 8-27-51 Dixie Valley Cattle Corporation; Mustang Spring; Stockwatering; No action.
13810 8-27-51 Dixie Valley Cattle Corporation; Cottonwood and Rock Canyon Creeks; Stockwatering; No action.
13811 8-27-51 Dixie Valley Cattle Corporation; Table Mountain Spring and Cottonwood Creek; Stockwatering; No action.
13812 8-27-51 Dixie Valley Cattle Corporation; Belle Mare Creek; Stockwatering; No action.
13813 8-27-51 Dixie Valley Cattle Corporation; Azurite Creek and tributaries; Stockwatering; No action.
13814 8-27-51 Dixie Valley Cattle Corporation; West and South White Rock Creeks; Stockwatering; No action.
13815 8-27-51 Segura Bros.; Homestead Spring; Stockwatering; Protested; No action.
13816 8-27-51 Segura Bros.; Underground; Stockwatering; Protested; No action.
13817 8-27-51 R. G. West; Underground; Irrigation and domestic; No action.
13818 8-28-51 J. J. Thrasher; Jennie Creek; Mining, milling and domestic; Approved January 10, 1952, for 1.0 c.f.s. G. S.
13819 8-30-51 E. D. and Beatrice R. Halstead; Monte Cristo Spring; Stockwatering; Approved February 15, 1952, for 0.015 c.f.s. G. S.
13820 8-31-51 City of Las Vegas; Sewage Disposal Plant and storm drainage water; Storage; Approved January 10, 1952, for 10,000 acre feet storage per annum. G. S.
13821 9- 5-51 Spring Mountain Water Assn.; Underground; Quasi-municipal; Approved January 29, 1952, for 0.56 c.f.s. G. S.
13822 9- 5-51 Constant Veuve; Underground; Stockwatering; Protested; No action.
13823 9- 5-51 Constant Veuve; Underground; Stockwatering; Protested; No action.
13824 9- 6-51 Delbert Brockman; Underground; Irrigation and domestic; Approved December 20, 1951, for 0.05 c.f.s. G. S.
13825 9- 7-51 Daisy P. Mohler; Underground; Irrigation and domestic; No action.
13826 9- 7-51 Peter Etchart, Sr.; Cold Sulphur Springs; Stockwatering; Approved March 21, 1952, for 0.0248 c.f.s. G. S.
13827 9- 7-51 Kennecott Copper Corporation; Ruth Spring; Municipal and domestic; Approved April 1, 1952, for 2.0 c.f.s. G. S.
13828 9-10-51 John Manzonie; Underground; Irrigation and domestic; No action.
13829 9-10-51 Johnny and Dellie Gallin, and John Manzonie; Duckwater Channel; Irrigation and domestic; No action.
13830 9-10-51 H. J. Buchenan; Underground; Irrigation and domestic; Protested; No action.
13831 9-10-51 H. J. Buchenan; Underground; Irrigation and domestic; Protested; No action.

13832 9-10-51 H. J. Buchanan; Underground; Irrigation and domestic; Protested; No action.

13833 9-10-51 H. J. Buchanan; Underground; Irrigation and domestic; Protested; No action.

13834 9-10-51 H. J. Buchanan; Underground; Irrigation and domestic; Protested; No action.

13835 9-13-51 Peter Fabbi; Unnamed Spring; Irrigation; Protested; No action.

13836 9-13-51 Peter Fabbi; Unnamed Spring; Irrigation; Protested; No action.

13837 9-13-51 R. W., R. A. and Joe B. Falling; Underground; Stockwatering; Approved January 29, 1952, for 0.032 c.f.s. Certificate issued.

13838 9-13-51 Phil S. and Elva B. McAdam; Underground; Irrigation and domestic; Approved February 15, 1952, for 1.0 c.f.s. G. S.

13839 9-14-51 Gailin and Dellie Marmonte; Ike Spring; Stockwatering and domestic; Cancelled May 13, 1952, because of failure to refile corrected application within statutory time.

13840 9-14-51 E. K. and Gloria M. Young; Underground; Irrigation and domestic; No action.

13841 9-14-51 Charles C. and Avenell Wilhoite; Underground; Irrigation and domestic; No action.

13842 9-17-51 Wm. A. Jones; Underground; Irrigation and domestic; Protested; Approved June 18, 1952, for 3.5 c.f.s. G. S.

13843 9-18-51 John C. Fugitt; Verdi Spring; Domestic and resort; Approved December 17, 1951, for 1.0 c.f.s. G. S.

13844 9-19-51 E. S. and Elizabeth Bowman and Linford O. and Imogene Anderson; Underground; Irrigation and domestic; Application to change; No action.

13845 9-21-51 Kenneth W. Mansfield; Rod Light Spring; Stockwatering and domestic; Cancelled May 13, 1952, because of failure to refile corrected application within statutory time.

13846 9-21-51 Richard E. Danielson, Jr.; Underground; Irrigation and domestic; Approved December 20, 1951, for 1.0 c.f.s. G. S.

13847 9-21-51 Richard E. Danielson, Jr.; Underground; Irrigation and domestic; Approved December 20, 1951, for 1.0 c.f.s. G. S.

13848 9-26-51 George H. Guhler; Underground; Irrigation; Withdrawn by applicant May 12, 1952.

13849 10- 1-51 Peter Damele; Underground; Irrigation and domestic; Approved January 28, 1952, for 4.0 c.f.s. G. S.

13850 10- 1-51 Peter Damele; Unnamed Spring; Stockwatering and domestic; Protested; No action.

13851 10- 1-51 Inez M. Butler; Fenstmaker Spring; Mining, milling and domestic; No action.

13852 10- 3-51 Ethel Burr Swallow; Underground; Irrigation; Protested; No action.

13853 10- 3-51 Ethel Burr Swallow; Underground; Irrigation; Protested; No action.

13854 10- 3-51 Ethel Burr Swallow; Underground; Irrigation; Protested; No action.

13855 10- 3-51 Swallow Bros.; Underground; Stockwatering; Protested; No action.

13856 10- 4-51 C. D. and Verna Long; Underground; Quasi-municipal and domestic; Approved January 29, 1951, for 0.10 c.f.s. G. S.

13857 10- 4-51 Lloyd W. Sweeney; Clear Creek; Irrigation and domestic; No action.

13858 10- 8-51 Schaefer Sheep Co.; Blackrock Spring; Stockwatering; Protested; No action.

13859 10- 8-51 Vincenzo Moricoui; Gold Canyon Creek; Irrigation and domestic; No action.

13860 10- 8-51 Curtis Mathews; Keno Creek; Irrigation; Approved February 15, 1952, for 1500 acre feet per annum. G. S.

13861 10-10-51 Fred Gribble; Cold Spring; Mining, milling and domestic; Approved January 23, 1952, for 0.10 c.f.s. G. S.

13862 10-11-51 E. S. Bowman; Underground; Irrigation and domestic; No action.

13863 10-15-51 R. H. Robison; Underground; Irrigation; Withdrawn by applicant May 4, 1952.

13864 10-15-51 Humboldt Farms, Inc.; Underground; Irrigation; Cancelled May 13, 1952, because of failure to refile corrected application within statutory time.

13865 10-15-51 Humboldt Farms, Inc.; Underground; Irrigation; Cancelled May 13, 1952 because of failure to refile corrected application within statutory time.

13866 10-15-51 Humboldt Farms, Inc.; Underground; Irrigation; Cancelled May 13, 1952, because of failure to refile corrected application within statutory time.

13867 10-15-51 Ray E. Mallory; Underground; Irrigation and domestic; No action.

13868 10-15-51 John S. Mallory; Underground; Irrigation and domestic; No action.

13869 10-15-51 Ray W. Pool; Underground; Irrigation and domestic; No action.

13870 10-17-51 Harry Richman; Snake Creek; Irrigation and domestic; Approved March 11, 1952, for 2.0 c.f.s. G. S.

13871 10-17-51 Harry Richman; Juniper Spring; Stockwatering and domestic; No action.

13872 10-17-51 Harry Richman; East Spring; Stockwatering and domestic; Approved March 27, 1952, for 0.0031 c.f.s. Certificate issued.
13873 10-17-51 Harry Richman; Tank Spring; Stockwatering and domestic; Approved March 27, 1952, for 0.0031 c.f.s. Certificate issued.
13874 10-17-51 Harry Richman; Sun Spring; Stockwatering and domestic; No action.
13875 10-17-51 Perry L. Bowman; Underground; Irrigation; No action.
13876 10-18-51 R. H. Robison; Canyon Springs; Stockwatering; Protested; No action.
13877 10-18-51 C. C. Perrin and Sons; Burke Channel and tributaries; Irrigation and domestic; Protested; No action.
13878 10-19-51 Joseph H. Koenig; Underground; Irrigation and domestic; No action.
13879 10-22-51 John C. Baker; Underground; Irrigation; Approved March 24, 1953, for 3.2 c.f.s. G. S.
13880 10-22-51 Floyd Graham; Underground; Irrigation and domestic; No action.
13881 10-24-51 Orin A. Perkins; Underground; Irrigation and domestic; Cancelled June 9, 1952, because of failure to refile corrected application within statutory time.
13882 10-24-51 Woodruff V. Perkins; Underground; Irrigation and domestic; Cancelled June 9, 1952, because of failure to refile corrected application within statutory time.
13883 10-25-51 Philip Wright; Underground; Irrigation and domestic; No action.
13884 10-25-51 W. L. and Edythe Mulheron; Underground; Commercial Fish Hatchery; Approved March 27, 1952, for 5.0 c.f.s. G. S.
13885 10-26-51 John R. Hoda; Underground; Irrigation and domestic; No action.
13886 10-26-51 Fred and Bella Stern; Underground; Quasi-municipal and domestic; Approved February 18, 1952, for 0.59 c.f.s. G. S.
13887 10-29-51 Wilbur C. Kinney; Underground; Irrigation and domestic; No action.
13888 10-29-51 Wm. K. Gaines; Underground; Irrigation and domestic; No action.
13889 10-29-51 L. D. Vermillion; Underground; Irrigation and domestic; Withdrawn by applicant December 18, 1951.
13890 10-30-51 Joe Naval Estate; Underground; Stockwatering and domestic; No action.
13891 10-31-51 Mrs. M. V. Christensen; Underground; Irrigation and domestic; No action.
13892 11- 1-51 T. M. Grise; Underground; Quasi-municipal and domestic; Approved February 28, 1952, for 0.10 c.f.s. G. S.
13893 11- 1-51 T. M. Grise; Underground; Quasi-municipal and domestic; Approved February 28, 1952, for 0.10 c.f.s. G. S.
13894 11- 2-51 Lloyd, Gladys and Harold Sweeney; Underground; Irrigation and domestic; Approved March 21, 1952, for 3.2 c.f.s. G. S.
13895 11- 2-51 Robert S. Gilbert; Bootlegger Spring; Stockwatering and domestic; No action.
13896 11- 5-51 Jacks Valley Ranch; E. C. Rhodes, Agent; Underground; Irrigation; Approved February 18, 1952, for 2.0 c.f.s. G. S.
13897 11- 5-51 Arthur N. Carter; Underground; Irrigation; No action.
13898 11- 5-51 Dale L. Peters; Underground; Irrigation and domestic; No action.
13899 11- 6-51 Will C. Scarles; Underground; Irrigation; No action.
13900 11- 6-51 John S. Sinai; Jones Creek; Irrigation and domestic; No action.
13901 11- 6-51 John S. Sinai; Jones Creek; Quasi-municipal and domestic; No action.
13902 11- 7-51 Wayne Wightman; Cottonwood Creek; Irrigation and domestic; Approved March 24, 1952, for 1.0 c.f.s. G. S.
13903 11- 7-51 The Union Ice Co. of Nevada; Underground; Domestic and commercial; Application to change; Approved February 19, 1952, for 1.0 c.f.s. Certificate issued.
13904 11- 9-51 Frank, Jr., and Gladys A. Penner; Underground; Irrigation and domestic; Approved June 17, 1952, for 3.0 c.f.s. G. S.
13905 11-14-51 Lucile M. Hale; Underground; Irrigation and domestic; No action.
13906 11-14-51 Millard S. Hale; Underground; Irrigation and domestic; No action.
13907 11-15-51 Union Carbide & Carbon Corporation; Riley Creek; Mining and domestic; Application to change; Approved March 18, 1952, for 0.14 c.f.s. G. S.
13908 11-15-51 J. W. Mink; Rosebud Spring; Mining, milling and domestic; No action.
13909 11-15-51 J. W. Mink; Mohawk Spring; Mining, milling and domestic; No action.
13910 11-15-51 J. W. Mink; Tennessee Creek; Mining, milling and domestic; No action.
13911 11-15-51 R. E. H. F. and R. R. Minister; Underground; Stockwatering and domestic; Approved April 1, 1952, for 0.0312 c.f.s. G. S.
13912 11-17-51 Harry Richman; Unnamed Creek; Stockwatering and domestic; No action.
13913 11-17-51 Harry Richman; Snake Creek; Irrigation and domestic; No action.

13914 11-17-51 Bessie L., Lyle L. and Claude L. Ellison, and Melba E. Jackson; Quinn River; Irrigation; Protested; No action.
13915 11-17-51 Bessie L., Lyle L. and Claude L. Ellison and Melba E. Jackson; Quinn River; Irrigation; Protested; No action.
13916 11-17-51 Bessie L., Lyle L. and Claude L. Ellison; Underground; Irrigation and domestic; Approved April 18, 1952, for 4.0 c.f.s. G. S.
13917 11-19-51 Leroy, Howard, Lester and James Sharp; Grand Central Spring; Stockwatering; No action.
13918 11-19-51 Leroy, Howard, Lester and James Sharp; Trap Spring; Stockwatering; No action.
13919 11-19-51 Ina M. W. Wilson and Fay W. Hartung; Washoe Lake; Irrigation and domestic; Application to change; Approved February 19, 1952, for 5.0 c.f.s. G. S.
13920 11-21-51 Ivan G. McDaniel; Underground; Irrigation and domestic; No action.
13921 11-25-51 Country Club Estates Water Association; Underground; Quasi-municipal and domestic; Approved February 28, 1952, for 0.46 c.f.s. G. S.
13922 11-26-51 E. H. Heller; Antelope Spring; Stockwatering; No action.
13923 11-27-51 Atlas Gold Mining Co.; Big Bob Cross-cut Tunnel; Mining, milling and domestic; Approved April 15, 1952, for 1.0 c.f.s. G. S.
13924 11-27-51 Atlas Gold Mining Co.; Lucky Girl Tunnel; Mining, milling and domestic; Approved April 15, 1952, for 1.0 c.f.s. G. S.
13925 11-29-51 Wyatt Marty; Underground; Irrigation and domestic; No action.
13926 11-30-51 Supp Bros.; Underground; Irrigation and domestic; Approved April 2, 1952, for 1.0 c.f.s. G. S.
13927 11-30-51 Supp Bros.; Underground; Irrigation and domestic; Approved April 2, 1952, for 1.0 c.f.s. G. S.
13928 12- 3-51 Jess E. Meyers; Underground; Irrigation and domestic; Withdrawn by applicant December 10, 1951.
13929 12- 3-51 Grover C. and Andrew F. Jackson; Underground; Irrigation and domestic; No action.
13930 12- 3-51 Grover C. and Andrew F. Jackson; Underground; Irrigation and domestic; No action.
13931 12- 5-51 City of Ely; Warm Springs; Irrigation; Approved April 4, 1952, for 0.50 c.f.s. G. S.
13932 12- 5-51 City of Ely; Hercules Gap Springs; Irrigation; No action.
13933 12- 6-51 Josephine K. Pinson; Bunch Canyon Spring; Irrigation and domestic; Application to change; Approved April 18, 1952, for 0.40 c.f.s. G. S.
13934 12- 7-51 Waldo Bezarth and Oscar Rudnick; Cline or Unnamed Spring; Irrigation and domestic; No action.
13935 12- 7-51 E. R. Rines; Underground; Bathing and domestic; No action.
13936 12-10-51 Kennecott Copper Corporation; Duck Creek; Irrigation; Approved April 1, 1952, for 5.0 c.f.s. G. S.
13937 12-10-51 Kennecott Copper Corporation; Underground; Milling and domestic; Approved April 1, 1952, for 10.0 c.f.s. G. S.
13938 12-10-51 Kennecott Copper Corporation; Underground; Sprinkling tailings; Approved April 1, 1952, for 10.0 c.f.s. G. S.
13939 12-10-51 Kennecott Copper Corporation; Underground; Milling and domestic; Approved April 28, 1952 for 15.0 c.f.s. G. S.
13940 12-11-51 Burton E. Harrell; Underground; Irrigation and domestic; No action.
13941 12-11-51 Robert H. Rund; Underground; Irrigation and domestic; No action.
13942 12-11-51 A. E. Hesnek; Underground; Irrigation and domestic; No action.
13943 12-13-51 Holland Livestock Co.; Squaw Valley Creek; Irrigation; Approved February 27, 1952 for 1,500 acre feet. G. S.
13944 12-13-51 Tracy E. Wiley; Underground; Irrigation and domestic; No action.
13945 12-17-51 Clarence Lawley; Underground; Irrigation and domestic; No action.
13946 12-17-51 Rupha Lawley; Underground; Irrigation and domestic; No action.
13947 12-17-51 Seldon Shirley; Underground; Irrigation and domestic; No action.
13948 12-17-51 Hazel Shirley; Underground; Irrigation and domestic; No action.
13949 12-17-51 L. B. Vermillion; Underground; Irrigation and domestic; Approved April 29, 1952, for 3.2 c.f.s. G. S.
13950 12-17-51 L. B. Vermillion; Underground; Irrigation and domestic; No action.
13951 12-17-51 Richard H. Danielson, Jr.; Underground; Irrigation and domestic; Approved April 2, 1952, for 1.0 c.f.s. G. S.
13952 12-21-51 City of Ely; Warm Springs; Mining and milling; Approved April 4, 1952, for 1.0 c.f.s. G. S.
13953 12-21-51 Kennecott Copper Corporation; Underground; Irrigation and domestic; Approved April 1, 1952, for 3.0 c.f.s. G. S.
13954 12-24-51 Sweetwater Ranch Co.; Underground; Irrigation; Approved June 26, 1952, for 1.0 c.f.s. G. S.

12955 12-31-51 Fred, Petrina and Leroy Etchegaray; Underground; Stockwatering; Approved April 15, 1952, for 0.0156 c.f.s. G. S.
12956 12-31-51 Fred, Pietrina and Leroy Etchegaray; Underground; Irrigation and domestic; Approved April 17, 1952, for 4.0 c.f.s. G. S.
12957 12-31-51 Fay E. Poole; Underground; Irrigation and domestic; No action.
12958 12-31-51 Norman and Lester Shurtliff; Underground; Irrigation and domestic; Application to change; Approved March 25, 1952, for 3.0 c.f.s. G. S.
12959 12-31-51 Norman and Lester Shurtliff; Underground; Irrigation and domestic; Application to change; Approved March 25, 1952, for 3.0 c.f.s. G. S.
12960 1- 2-52 M. R. Lawrance; Underground; Irrigation and domestic; No action.
12961 1- 2-52 Mrs. R. Lawrance; Underground; Irrigation and domestic; No action.
12962 1- 2-52 S. E. Lowrance; Underground; Irrigation and domestic; No action.
12963 1- 2-52 Mrs. E. Areolus; Underground; Irrigation and domestic; No action.
12964 1- 2-52 Frank Areolus; Underground; Irrigation and domestic; No action.
12965 1- 2-52 Dan Filippini; Underground; Stockwatering and domestic; No action.
12966 1- 2-52 Stephen Domeic and Sons; Underground; Irrigation and domestic; Approved April 17, 1952, for 5.0 c.f.s. G. S.
12967 1- 2-52 Joe Naval Estate; Underground; Irrigation and domestic; Approved May 8, 1952, for 0.5 c.f.s. G. S.
12968 1- 2-52 E. W. Westmoreland; Underground; Irrigation and domestic; No action.
12969 1- 2-52 E. W. Westmoreland; Underground; Irrigation and domestic; No action.
12970 1- 2-52 E. W. Westmoreland; Underground; Irrigation and domestic; Approved June 17, 1952, for 2.2 c.f.s. G. S.
12971 1- 2-52 E. W. Westmoreland; Underground; Irrigation and domestic; No action.
12972 1- 2-52 John H. Doyle; Underground; Irrigation; No action.
12973 1- 4-52 C. A. Tomlinson; Underground; Irrigation; No action.
12974 1- 7-52 Emil L. Rosconi; Underground; Irrigation and domestic; No action.
12975 1- 7-52 Edmund D. Henske; Underground; Irrigation and domestic; No action.
12976 1- 7-52 Maurice E. Jones; Waste water; Irrigation; No action.
12977 1- 7-52 Homer C. Mays; Underground; Irrigation and domestic; No action.
12978 1- 7-52 Mrs. Lillie Horn; Underground; Irrigation and domestic; No action.
12979 1- 7-52 Leonard O. Horn; Underground; Irrigation and domestic; No action.
12980 1- 7-52 Mrs. Alberta A. Mays; Underground; Irrigation and domestic; No action.
12981 1- 8-52 William F. Merchant; Underground; Irrigation and domestic; No action.
12982 1- 9-52 Pacific States Savings & Loan Co.; Underground; Irrigation and domestic; Approved April 15, 1952, for 4.0 c.f.s. G. S.
12983 1- 9-52 Emmett Douglas, Jr.; Underground; Quasi-municipal and domestic; Approved April 4, 1952, for 0.15 c.f.s. G. S.
12984 1-10-52 Manuel Castro; Underground; Irrigation and domestic; No action.
12985 1-10-52 Mrs. Pearl Castro; Underground; Irrigation and domestic; No action.
12986 1-10-52 Waldon C. Gallaher; Underground; Irrigation and domestic; No action.
12987 1-10-52 Mrs. Jessie Gallaher; Underground; Irrigation and domestic; No action.
12988 1-10-52 Mrs. Edna Inez Campbell; Underground; Irrigation and domestic; No action.
12989 1-10-52 Virgil E. Campbell; Underground; Irrigation and domestic; No action.
12990 1-14-52 Ralph F. Smith; Underground; Irrigation and domestic; Withdrawn by applicant June 4, 1952.
12991 1-14-52 H. S. Davis; Underground; Irrigation and domestic; No action.
12992 1-14-52 H. S. Davis; Underground; Irrigation and domestic; No action.
12993 1-14-52 M. J. Weller; Underground; Irrigation and domestic; No action.
12994 1-14-52 M. J. Weller; Underground; Irrigation and domestic; No action.
12995 1-14-52 M. J. Weller; Underground; Irrigation and domestic; No action.
12996 1-17-52 Marne M. Foster; Underground; Mining, milling and domestic; No action.
12997 1-17-52 Will J. Farrington; North and South Twin Rivers; Power; No action.
12998 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Approved April 30, 1952, for 4.5 c.f.s. G. S.

12939 1-17-52 Nevada Fish and Game Commission; Slough; Recreational and wildlife; Approved April 30, 1952, for 5.0 c.f.s. G. S.

14000 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Approved April 30, 1952, for 0.5 c.f.s. G. S.

14001 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Approved April 30, 1952, for 0.5 c.f.s. G. S.

14002 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Approved April 30, 1952, for 0.5 c.f.s. G. S.

14003 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Approved April 30, 1952, for 0.5 c.f.s. G. S.

14004 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Protested; No action.

14005 1-17-52 Nevada Fish and Game Commission; Underground; Recreational and wildlife; Approved April 30, 1952, for 0.5 c.f.s. G. S.

14006 1-21-52 The Vegas Rancho Acres, Inc.; Underground; Quasi-municipal; Approved May 26, 1952, for 1.0 c.f.s. G. S.

14007 1-21-52 Fred B. and Maude B. Allen; Underground; Quasi-municipal; Approved April 28, 1952, for 1.0 c.f.s. G. S.

14008 1-22-52 Martha T. Davis; Underground; Irrigation and domestic; No action.

14009 1-22-52 Martha T. Davis; Underground; Irrigation and domestic; No action.

14010 1-23-52 Mrs. Fred G. Hamlett; Underground; Irrigation and domestic; No action.

14011 1-23-52 Fred G. Hamlett; Underground; Irrigation and domestic; No action.

14012 1-23-52 Ethel B. Swallow; Underground; Irrigation and domestic; No action.

14013 1-24-52 John H. Wichman; Underground; Irrigation and domestic; Approved June 12, 1952, for 0.20 c.f.s. G. S.

14014 1-28-52 John E. Cavanaugh; Underground; Irrigation and domestic; No action.

14015 1-28-52 John E. Cavanaugh; Underground; Irrigation and domestic; No action.

14016 1-28-52 John E. Cavanaugh; Underground; Stockwatering; No action.

14017 1-28-52 Will J. Farrington; Underground; Stockwatering; No action.

14018 1-30-52 Oscar O. Rensel; Underground; Irrigation and domestic; No action.

14019 1-30-52 Paul W. Trousdale; Underground; Quasi-municipal and domestic; Approved April 29, 1952, for 0.3 c.f.s. G. S.

14020 1-30-52 Paul W. Trousdale; Underground; Quasi-municipal and domestic; Approved April 29, 1952, for 0.3 c.f.s. G. S.

14021 1-31-52 E. D. McCoy; Underground; Irrigation and domestic; No action.

14022 2- 1-52 Simplot Iron Mines, Inc.; Unnamed Springs; Mining, milling and domestic; Approved June 17, 1952, for 1.0 c.f.s. G. S.

14023 2- 1-52 John S. Williams, Sr.; Underground; Irrigation and domestic; No action.

14024 2- 1-52 John S. Williams, Jr.; Underground; Irrigation and domestic; No action.

14025 2- 1-52 Mrs. Pauline Harney; Underground; Irrigation and domestic; No action.

14026 2- 1-52 Mrs. Margaret N. McBean; Underground; Irrigation and domestic; No action.

14027 2- 1-52 John M. Ward; Underground; Irrigation and domestic; No action.

14028 2- 1-52 Charles Thrower; Underground; Irrigation and domestic; Withdrawn by applicant March 5, 1952.

14029 2- 1-52 Mrs. Maggie Bennett; Underground; Irrigation and domestic; No action.

14030 2- 1-52 Mrs. Norma Phillips; Underground; Irrigation and domestic; No action.

14031 2- 4-52 Mrs. Lorea B. Conn; Underground; Irrigation and domestic; No action.

14032 2- 4-52 Mrs. Lorne Collin; Underground; Irrigation and domestic ; No action.

14033 2- 4-52 Mrs. Virginia Bennett; Underground; Irrigation and domestic; No action.

14034 2- 4-52 Mrs. Helen Lindemann; Underground; Irrigation and domestic; No action.

14035 2- 4-52 James Treadwell; Underground; Irrigation and domestic; No action.

14036 2- 4-52 Silvia Treadwell; Underground; Irrigation and domestic; No action.

14037 2- 4-52 Hunewill Land & Livestock Co., Inc.; Colony Drainage Canal; Irrigation and domestic; Protested; No action.

14038 2- 4-52 Hunewill Land & Livestock Co., Inc.; Hunewill Drainage Canal; Irrigation and domestic; Protested; No action.

14039 2- 4-52 Hunewill Land & Livestock Co., Inc.; Hunewill Drainage Canal; Irrigation and domestic; Protested; No action.

14040 2- 5-52 Freeman E. Fairfield; West Walker River; Irrigation; Protested; Application to change; No action.
14041 2- 5-52 Freeman E. Fairfield; West Walker River; Irrigation; Protested; Application to change; No action.
14042 2- 5-52 Freeman E. Fairfield; West Walker River; Irrigation; Protested; Application to change; No action.
14043 2- 5-52 Freeman E. Fairfield; West Walker River; Irrigation; Protested; Application to change; No action.
14044 2- 5-52 Freeman E. Fairfield; West Walker River; Irrigation; Protested; Application to change; No action.
14045 2- 6-52 Obe J. Kincaid; Underground; Irrigation and domestic; No action.
14046 2- 6-52 Joseph C. Hargenhan; Underground; Irrigation and domestic; No action.
14047 2- 7-52 Charles A. Ely; Underground; Irrigation; Withdrawn by applicant February 27, 1952.
14048 2- 7-52 Gordon W. Bettles; Underground; Irrigation; No action.
14049 2- 8-52 J. O. Hill; Underground; Irrigation and domestic; Approved June 18, 1952, for 6.0 c.f.s. G. S.
14050 2-11-52 Mrs. Harriet D. Fawcett; Underground; Irrigation and domestic; No action.
14051 2-11-52 Carl E. Spiecker; Underground; Irrigation; No action.
14052 2-11-52 Arthur G. Goodnow; Underground; Irrigation; No action.
14053 2-18-52 Robert J. Moore; Underground; Domestic; No action.
14054 2-18-52 Alexander E. Bettles; Underground; Irrigation and domestic; No action.
14055 2-18-52 Alexander E. Bettles; Underground; Irrigation and domestic; No action.
14056 2-19-52 M. W. Depaoli, et al; Truckee River; Irrigation; Application to change; Approved May 21, 1952, for 132 acre feet.
14057 2-19-52 John Arden and Oliver Armstrong; Truckee River; Irrigation and domestic; Application to change; No action.
14058 2-19-52 Prewin, Inc.; Underground; Quasi-municipal; Approved June 12, 1952, for 0.20 c.f.s. G. S.
14059 2-20-52 Don H. Baxter; Underground; Irrigation and domestic; No action.
14060 2-20-52 Mrs. Dorothy J. Armantrout; Underground; Irrigation and domestic; No action.
14061 2-20-52 Mrs. Mildred F. Johnson; Underground; Irrigation and domestic; No action.
14062 2-20-52 Sierra Pacific Power Co.; Truckee River; Municipal and domestic; Application to change; No action.
14063 2-21-52 Clarence L. Harding, Sr.; Underground; Irrigation and domestic; No action.
14064 2-22-52 David E. and Florence I. Hemington, and John P. (a/k/a John E.) and Marjorie L. Bleke); Underground; Quasi-municipal and domestic; Approved June 17, 1952, for 0.40 c.f.s. G. S.
14065 2-25-52 Ruby D. Records; Underground; Irrigation and domestic; No action.
14066 2-25-52 Ruby D. Records; Underground; Irrigation and domestic; No action.
14067 2-25-52 Henry H. Records; Underground; Irrigation and domestic; No action.
14068 2-25-52 Henry H. Records; Underground; Irrigation and domestic; No action.
14069 2-25-52 Mary E. Stone; Underground; Irrigation and domestic; No action.
14070 2-25-52 Mary E. Stone; Underground; Irrigation and domestic; No action.
14071 2-25-52 Donald B. Martin; Underground; Irrigation and domestic; No action.
14072 2-25-52 Donald B. Martin; Underground; Irrigation and domestic; No action.
14073 2-25-52 Robert B. Records; Underground; Irrigation and domestic; No action.
14074 2-25-52 Robert B. Records; Underground; Irrigation and domestic; No action.
14075 2-25-52 Mary Records; Underground; Irrigation and domestic; No action.
14076 2-25-52 Mary Records; Underground; Irrigation and domestic; No action.
14077 2-25-52 William O. Dungan; Underground; Irrigation and domestic; No action.
14078 2-25-52 Edwin H. Manklnen; Underground; Irrigation and domestic; No action.
14079 2-25-52 Thomas P. Gallagher; Underground; Irrigation and domestic; No action.
14080 2-25-52 Howard C. Weekly; Underground; Irrigation and domestic; No action.
14081 2-26-52 Robert E. Makemson; Underground; Irrigation and domestic; No action.
14082 2-26-52 Merle S. and Esther P. Peck; Underground; Irrigation and domestic; No action.
14083 2-26-52 Dan L. and Mary L. Peck; Underground; Irrigation and domestic; No action.

14084 2-26-52 K. B. Klassen; Underground; Irrigation and domestic; Approved June 18, 1952, for 2.0 c.f.s. G. S.
14085 2-26-52 Phillip H. Rued; Underground; Irrigation and domestic; No action.
14086 2-26-52 Chester K. Stone; Underground; Irrigation and domestic; No action.
14087 2-26-52 David A. Lusk; Underground; Irrigation and domestic; No action.
14088 2-26-52 Paul Rued; Underground; Irrigation and domestic; No action.
14089 2-27-52 Howard Turley; Box Canyon Creek; Irrigation and domestic; No action.
14090 2-27-52 Janey M. Little; Unnamed Spring; Irrigation; No action.
14091 2-28-52 Forrest H. Chambers; Underground; Stockwatering; Approved June 17, 1952, for .0041 c.f.s. G. S.
14092 2-28-52 Forrest H. Chambers; Underground; Stockwatering; Approved June 17, 1952, for .0041 c.f.s. G. S.
14093 2-28-52 Forrest H. Chambers; Underground; Irrigation; Approved June 17, 1952, for 2.0 c.f.s. G. S.
14094 2-28-52 Fred A. Dearth; Underground; Irrigation; No action.
14095 2-29-52 L. H. and D. A. Andersen; Carson River; Irrigation, Stockwatering and domestic; Application to change; No action.
14096 2-29-52 L. H. and D. A. Andersen; Carson River; Irrigation and domestic; Application to change; No action.
14097 3- 3-52 J. W. and Rose Clark; Underground; Quasi-municipal; No action.
14098 3- 3-52 Dearth & Rudnick; Halter Spring; Irrigation; No action.
14099 3- 3-52 C. J. Crump, Jr.; Underground; Irrigation and domestic; No action.
14100 3- 3-52 Mrs. Shirley M. Lusk; Underground; Irrigation and domestic; No action.
14101 3- 6-52 Mrs. Jerry Rued; Underground; Irrigation and domestic; No action.
14102 3- 7-52 Bernard York; Camp Spring; Mining and domestic; Approved June 25, 1952, for 0.25 c.f.s. G. S.
14103 3- 7-52 Bernard York; Tank Spring; Mining and domestic; Approved June 25, 1952, for 0.25 c.f.s. G. S.
14104 3-10-52 Ray Thomas; Underground; Irrigation; Protested; Application to change; No action.
14105 3-10-52 Ray Thomas; Underground; Irrigation; Protested; Application to change; No action.
14106 3-10-52 Ray Thomas; Underground; Irrigation; Application to change; No action.
14107 3-10-52 Frederick G. and Kathleen T. Steve, and Mabel M. and Ralph L. Thomson; Underground; Irrigation and domestic; No action.
14108 3-10-52 Frederick G. and Kathleen T. Steve; Underground; Irrigation and domestic; No action.
14109 3-12-52 Anaconda Copper Mining Co.; Underground; Mining, milling and domestic; Protested; No action.
14110 3-12-52 Anaconda Copper Mining Co.; Underground; Mining, milling and domestic; Protested; No action.
14111 3-12-52 Anaconda Copper Mining Co.; Underground; Mining, milling and domestic; Protested; No action.
14112 3-12-52 Anaconda Copper Mining Co.; Underground; Mining, milling and domestic; Protested; No action.
14113 3-12-52 Anaconda Copper Mining Co.; Underground; Mining, milling and domestic; Protested; No action.
14114 3-13-52 L. W. Herrum; Underground; Bathing, heating and domestic; No action.
14115 3-14-52 Thomas T. and Della Schofield; Underground; Quasi-municipal and domestic; No action.
14116 3-17-52 Pete and Julian Goicoechea; Underground; Stockwatering; No action.
14117 3-17-52 George P. Brooks; Underground; Irrigation and domestic; No action.
14118 3-17-52 Lillian E. Hensill; Underground; Irrigation and domestic; No action.
14119 3-17-52 Round Mountain Gold Dredging Corporation; Underground; Mining, milling and domestic; No action.
14120 3-19-52 M. S. Land & Livestock; Tank or Sagehen Springs; Stockwatering; No action.
14121 3-19-52 M. S. Land & Livestock; Buck Springs; Stockwatering; No action.
14122 3-19-52 M. S. Land & Livestock; Upper Water Hole or Jigger Creek; Stockwatering; No action.
14123 3-20-52 V. B. and J. A. Richardson; Underground; Quasi-municipal and domestic; Approved June 25, 1952, for 0.15 c.f.s. G. S.
14124 3-21-52 Robert O. Cannon; Underground; Irrigation and domestic; No action.
14125 3-21-52 William Kozloff; Underground; Irrigation and domestic; No action.
14126 3-21-52 John Lester Vaught; Underground; Irrigation and domestic; No action.
14127 3-21-52 Loren D. Pruitt; Underground; Irrigation and domestic; No action.

14128 3-21-52 Robert Bello; Underground; Irrigation and domestic; No action.
14129 3-21-52 Rose Mary Bello; Underground; Irrigation and domestic; No action.
14130 3-21-52 Chester H. Bennett; Underground; Irrigation and domestic; No action.
14131 3-21-52 Gladys Bello; Underground; Irrigation and domestic; No action.
14132 3-21-52 Ernest H. Pruitt; Underground; Irrigation and domestic; No action.
14133 3-21-52 Francis A. Jensen; Underground; Irrigation and domestic; No action.
14134 3-21-52 Guy Houk; Underground; Irrigation and domestic; No action.
14135 3-21-52 Hugh A. Bennett; Underground; Irrigation and domestic; No action.
14136 3-21-52 Wanda L. Vaught; Underground; Irrigation and domestic; No action.
14137 3-21-52 Frank A. Alves; Underground; Irrigation and domestic; No action.
14138 3-21-52 William H. Bennet; Underground; Irrigation and domestic; No action.
14139 3-21-52 Lela M. Bennett; Underground; Irrigation and domestic; No action.
14140 3-21-52 Bertram L. Burk; Underground; Irrigation and domestic; No action.
14141 3-21-52 Donald C. Bennett; Underground; Irrigation and domestic; No action.
14142 3-21-52 Oma S. Burk; Underground; Irrigation and domestic; No action.
14143 3-21-52 Norma J. Pruitt; Underground; Irrigation and domestic; No action.
14144 3-21-52 Robert L. Jensen; Underground; Irrigation and domestic; No action.
14145 3-24-52 David H. Slaughter; Underground; Irrigation and domestic; Approved June 25, 1952, for 0.05 c.f.s. U. S.
14146 3-24-52 Joe Blumenthal; Underground; Quasi-municipal; No action.
14147 3-24-52 Mrs. Billie Bettles; Underground; Irrigation and domestic; No action.
14148 3-24-52 H. D. McCall; Underground; Irrigation and domestic; No action.
14149 3-25-52 Herman E. Burgess; Underground; Irrigation and domestic; No action.
14150 3-26-52 Black Rock Desert Mineral Co.; Underground; Milling and domestic; No action.
14151 3-26-52 James B. and Georgia B. Murdock; Underground; Irrigation and domestic; No action.
14152 3-26-52 Minta V. Turner; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1952.
14153 3-26-52 John K. Turner; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1952.
14154 3-26-52 Philip E. Turner; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1952.
14155 3-26-52 Clair K. Clark; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1952.
14156 3-26-52 Jeannette M. Clark; Underground; Irrigation and domestic; Withdrawn by applicant April 14, 1952.
14157 3-26-52 Peter J. Burfening; Underground; Irrigation and domestic; No action.
14158 3-26-52 Peter J. Burfening; Underground; Irrigation and domestic; No action.
14159 3-26-52 Anetta L. Cleveland; Underground; Irrigation and domestic; No action.
14160 3-26-52 Anetta L. Cleveland; Underground; Irrigation and domestic; No action.
14161 3-26-52 Frank R. Cleveland; Underground; Irrigation and domestic; No action.
14162 3-26-52 Frank R. Cleveland; Underground; Irrigation and domestic; No action.
14163 3-26-52 Elden L. Cleveland; Underground; Irrigation and domestic; No action.
14164 3-26-52 Elden L. Cleveland; Underground; Irrigation and domestic; No action.
14165 3-28-52 Robert C. Miller; Underground; Quasi-municipal and domestic; No action.
14166 3-28-52 Herman E. Smith; Underground; Irrigation and domestic; No action.
14167 3-28-52 Herman E. Smith; Underground; Irrigation and domestic; No action.
14168 3-28-52 Geraldine F. Smith; Underground; Irrigation and domestic; No action.
14169 3-28-52 Geraldine F. Smith; Underground; Irrigation and domestic; No action.
14170 3-28-52 Mary H. Smith; Underground; Irrigation and domestic; No action.
14171 3-28-52 Mary H. Smith; Underground; Irrigation and domestic; No action.

14172 3-28-52 Emma G. Burfening; Underground; Irrigation and domestic; No action.
14173 3-28-52 Emma G. Burfening; Underground; Irrigation and domestic; No action.
14174 3-31-52 Richard E. Danielson, Jr.; Underground; Irrigation and domestic; No action.
14175 3-31-52 Richard E. Danielson, Jr.; Underground; Irrigation and domestic; No action.
14176 3-31-52 Richard E. Danielson, Jr.; Underground; Irrigation and domestic; No action.
14177 3-31-52 Ray Murphy; Underground; Irrigation and domestic; No action.
14178 3-31-52 Ray Murphy; Underground; Irrigation and domestic; No action.
14179 3-31-52 Ralph D. Austin; Underground; Irrigation and domestic; No action.
14180 3-31-52 Ralph D. Austin; Underground; Irrigation and domestic; No action.
14181 3-31-52 Gene F. LaTourrette; Underground; Irrigation and domestic; No action.
14182 3-31-52 Gene F. LaTourrette; Underground; Irrigation and domestic; No action.
14183 3-31-52 Frances A. LaTourrette; Underground; Irrigation and domestic; No action.
14184 3-31-52 Frances A. LaTourrette; Underground; Irrigation and domestic; No action.
14185 3-31-52 Glen C. LaTourrette; Underground; Irrigation and domestic; No action.
14186 3-31-52 Glen C. LaTourrette; Underground; Irrigation and domestic; No action.
14187 3-31-52 Frances R. LaTourrette; Underground; Irrigation and domestic; No action.
14188 3-31-52 Frances R. LaTourrette; Underground; Irrigation and domestic; No action.
14189 3-31-52 Fannie H. Austin; Underground; Irrigation and domestic; No action.
14190 3-31-52 Fannie H. Austin; Underground; Irrigation and domestic; No action.
14191 3-31-52 Florence Hauk; Underground; Irrigation; No action.
14192 3-31-52 George W. Bonillas; Underground; Irrigation; No action.
14193 4- 2-52 Ellen M. Hamilton; Underground; Irrigation; No action.
14194 4- 3-52 Roswell M. Fox; Underground; Irrigation and domestic; No action.
14195 4- 3-52 Roswell M. Fox; Underground; Irrigation and domestic; No action.
14196 4- 3-52 Roswell M. Fox; Underground; Irrigation and domestic; No action.
14197 4- 3-52 George Schuler; Underground; Irrigation and domestic; No action.
14198 4- 7-52 Lloyd H. Noudeck; Underground; Irrigation and domestic; No action.
14199 4- 7-52 Kenneth W. Noudeck; Underground; Irrigation; No action.
14200 4- 7-52 Walter A. Noudeck; Underground; Irrigation; No action.
14201 4- 7-52 Vernal V. Noudeck; Underground; Irrigation; No action.
14202 4- 8-52 Walter S. Crabtree, Sr.; Underground; Irrigation and domestic; No action.
14203 4- 9-52 Felicia J. Wood; Underground; Irrigation and domestic; No action.
14204 4- 9-52 Genemarie Hammonds; Underground; Irrigation and domestic; No action.
14205 4- 9-52 Cora S. Walker; Underground; Irrigation and domestic; No action.
14206 4- 9-52 Ernest H. Bingham; Underground; Irrigation and domestic; No action.
14207 4- 9-52 Ernest H. Bingham; Underground; Irrigation and domestic; No action.
14208 4- 9-52 Mary E. Osenbach; Underground; Irrigation and domestic; No action.
14209 4- 9-52 Mary E. Osenbach; Underground; Irrigation and domestic; No action.
14210 4- 9-52 Mace D. Osenbach; Underground; Irrigation and domestic; No action.
14211 4- 9-52 Mace D. Osenbach; Underground; Irrigation and domestic; No action.
14212 4- 9-52 Adrian H. Arendt; Underground; Irrigation and domestic; No action.
14213 4- 9-52 Adrian H. Arendt; Underground; Irrigation and domestic; No action.
14214 4- 9-52 Emeline A. Williams; Underground; Irrigation and domestic; No action.
14215 4- 9-52 Emeline A. Williams; Underground; Irrigation and domestic; No action.
14216 4- 9-52 Mary E. Vhay; Underground; Irrigation and domestic; No action.
14217 4- 9-52 Mary E. Vhay; Underground; Irrigation and domestic; No action.
14218 4- 9-52 David Vhay; Underground; Irrigation and domestic; No action.

14219 4- 9-52 David Vhay; Underground; Irrigation and domestic; No action.
14220 4- 9-52 Lloyd V. Smith; Underground; Irrigation and domestic; No action.
14221 4- 9-52 Lloyd V. Smith; Underground; Irrigation and domestic; No action.
14222 4-10-52 Dallas Kingsbury; Underground; Quasi-municipal and domestic; No action.
14223 4-11-52 Bessie Sutter; Twin Springs; Mining and domestic; No action.
14224 4-14-52 Mrs. Amanda P. Beach; Underground; Irrigation; No action.
14225 4-14-52 Mary Dillwith; Underground; Irrigation and domestic; No action.
14226 4-14-52 Mary Dillwith; Underground; Irrigation and domestic; No action.
14227 4-14-52 Joreldine C. Tynan; Underground; Irrigation and domestic; No action.
14228 4-14-52 Frances R. Stauffer; Underground; Irrigation and domestic; No action.
14229 4-14-52 Laurence S. Stauffer; Underground; Irrigation and domestic; No action.
14230 4-14-52 Marjorie Lenore Robinson; Underground; Irrigation and domestic; No action.
14231 4-14-52 Frank Carlton; Underground; Irrigation and domestic; No action.
14232 4-14-52 Frank Carlton; Underground; Irrigation and domestic; No action.
14233 4-14-52 Mrs. Helen Y. Carlton; Underground; Irrigation and domestic; No action.
14234 4-14-52 Mrs. Helen Y. Carlton; Underground; Irrigation and domestic; No action.
14235 4-16-52 State of Nevada, Dept. of Highways; Mountain Spring; Domestic; Maintenance; Public; No action.
14236 4-16-52 Darrel B. Rytting and A. F. Sanders; Unknown Creek; Irrigation and domestic; No action.
14237 4-17-52 Bottle Creek Ranch; Underground; Irrigation; No action.
14238 4-17-52 Joseph W. and Lizzie Ford; Underground; Irrigation and domestic; No action.
14239 4-18-52 W. E. Gorton and Sons; Sutro Springs Channel and tributaries; Irrigation and domestic; No action.
14240 4-18-52 Perry L. Bowman; Underground; Irrigation and domestic; No action.
14241 4-18-52 Linford O. Anderson; Underground; Irrigation and domestic; No action.
14242 4-18-52 A. J. Frehner; Underground; Irrigation and domestic; No action.
14243 4-18-52 E. S. Bowman and Sons; Intermittent Spring; Irrigation and domestic; No action.
14244 4-21-52 Eva Kerr; Underground; Irrigation; No action.
14245 4-21-52 Samuel Weller; Underground; Mining, milling and domestic; No action.
14246 4-21-52 F. D. Shuck; Spencer's Hot Spring; Bathing and domestic; No action.
14247 4-22-52 Errol Leslie Flynn; Underground; Irrigation and domestic; No action.
14248 4-22-52 Jackson B. Mahon; Underground; Irrigation and domestic; No action.
14249 4-22-52 John Miller; Underground; Irrigation and domestic; No action.
14250 4-22-52 Julia Miller; Underground; Irrigation and domestic; No action.
14251 4-22-52 Arthur La Touf; Underground; Irrigation and domestic; No action.
14252 4-22-52 Gloria F. La Touf; Underground; Irrigation and domestic; No action.
14253 4-22-52 Nathan Wechsler; Underground; Irrigation and domestic; No action.
14254 4-22-52 Pauline R. Wechsler; Underground; Irrigation and domestic; No action.
14255 4-22-52 Herbert M. Wechsler; Underground; Irrigation and domestic; No action.
14256 4-22-52 Elaine G. Wechsler; Underground; Irrigation and domestic; No action.
14257 4-22-52 Black Rock Mining Corporation; Underground; Mining and domestic; No action.
14258 4-23-52 L. O. Hawkins; Underground; Quasi-municipal and domestic; No action.
14259 4-25-52 Millard P. Glessner; Underground; Irrigation and domestic; No action.
14260 4-25-52 J. P. and F. G. Barnes; Bull Creek; Mining and domestic; Withdrawn by applicant June 9, 1952.
14261 4-25-52 L. R. Vermillion; Underground; Irrigation and domestic; Application to change; No action.
14262 4-25-52 O. L. and T. G. Sheppard and W. W. Stout; Underground; Irrigation and domestic; No action.
14263 4-25-52 O. L. and T. G. Sheppard and W. W. Stout; Underground; Irrigation and domestic; No action.
14264 4-25-52 O. L. and T. G. Sheppard and W. W. Stout; Underground; Irrigation and domestic; No action.

14265 4-23-52 O. L. and T. G. Sheppard and W. W. Stout; Underground; Irrigation and domestic; No action.
14266 4-23-52 O. L. and T. G. Sheppard and W. W. Stout; Underground; Irrigation and domestic; No action.
14267 4-23-52 O. L. and T. G. Sheppard and W. W. Stout; Underground; Irrigation and domestic; No action.
14268 4-23-52 O. L. and T. G. Sheppard; Underground; Irrigation and domestic; No action.
14269 4-23-52 O. L. and T. G. Sheppard; Underground; Irrigation and domestic; No action.
14270 4-29-52 John C. Feil; Underground; Irrigation and domestic; No action.
14271 5- 1-52 Mrs. Patricia M. Norwood; Underground; Irrigation and domestic; No action.
14272 5- 1-52 Mac C. Norwood; Underground; Irrigation and domestic; No action.
14273 5- 2-52 W. S. Robinson; Underground; Irrigation and domestic; Withdrawn by applicant May 27, 1952.
14274 5- 2-52 Joan N. Robinson; Underground; Irrigation and domestic; Withdrawn by applicant May 27, 1952.
14275 5- 2-52 Walter S. Robinson, Jr.; Underground; Irrigation and domestic; Withdrawn by applicant May 27, 1952.
14276 5- 2-52 L. Frank Palmer; Underground; Irrigation and domestic; No action.
14277 5- 2-52 E. S. Brashear; Underground; Irrigation and domestic; No action.
14278 5- 5-52 Sidney H. Smyth; Underground; Irrigation and domestic; No action.
14279 5- 5-52 Harold L. Cadwell; Underground; Irrigation and domestic; No action.
14280 5- 5-52 Harold L. Cadwell; Underground; Irrigation and domestic; No action.
14281 5- 5-52 Charles Willis Morrison; Underground; Irrigation and domestic; No action.
14282 5- 8-52 G. W. and L. H. McCutcheon; Underground; Mining, milling and domestic; No action.
14283 5-14-52 R. A. Watt; Underground; Quasi-municipal; No action.
14284 5-14-52 Sunrise Motel; Underground; Quasi-municipal; No action.
14285 5-14-52 A. L. Simpson; Underground; Irrigation and domestic; No action.
14286 5-14-52 A. L. Simpson; Underground; Irrigation and domestic; No action.
14287 5-14-52 A. L. Simpson; Underground; Irrigation and domestic; No action.
14288 5-14-52 A. L. Simpson; Underground; Irrigation and domestic; No action.
14289 5-15-52 Lyle Christensen; Underground; Irrigation and domestic; No action.
14290 5-15-52 A. J. Frehner; Underground; Irrigation and domestic; No action.
14291 5-15-52 Linford O. Anderson; Underground; Irrigation and domestic; No action.
14292 5-15-52 Max Hafen; Underground; Irrigation and domestic; No action.
14293 5-15-52 Max Hafen; Underground; Irrigation and domestic; No action.
14294 5-15-52 C. O. Hardester and B. A. Riley; Underground; Irrigation and domestic; No action.
14295 5-16-52 M. V. Fatchin; Underground; Irrigation; No action.
14296 5-19-52 Murdell C. Earl; Underground; Irrigation and domestic; No action.
14297 5-19-52 Murdell C. Earl; Underground; Irrigation and domestic; No action.
14298 5-19-52 Frank A. Boal; Underground; Irrigation; No action.
14299 5-19-52 Harry A. Brown; Underground; Irrigation and domestic; No action.
14300 5-19-52 Harry A. Brown; Underground; Irrigation and domestic; No action.
14301 5-19-52 John F. Fisler; Deer Springs; Irrigation and domestic; No action.
14302 5-19-52 Mrs. Beatrice Halstead; Green Springs Reservoir; Irrigation; No action.
14303 5-22-52 Floyd J. Behmer and Andy Forbes; Underground; Quasi-municipal; No action.
14304 5-23-52 Joe Shoong; Underground; Quasi-municipal; No action.
14305 5-23-52 Hozarth & Rudnick; Cosser Spring; Stockwatering; No action.
14306 5-23-52 Bartholomae Corporation; Cuckalorum Spring; Stockwatering; Protested; No action.
14307 5-26-52 George M. Holstein and Sons; Underground; Quasi-municipal; No action.
14308 5-26-52 Walden Yerpahl; Underground; Irrigation and domestic; No action.
14309 5-26-52 Mrs. Lila E. Hickman; Underground; Irrigation and domestic; No action.
14310 5-26-52 The London Extension Mining Co.; Underground; Mining, milling and domestic; No action.
14311 5-29-52 C. A. Blair; Lower Rattlesnake Spring; Stockwatering; No action.

14312 6- 2-52 R. E. Danner, Lequerica Bros.; Harry Lequerica, Orville G. Fretwell and Domingo Obeita; Woodie Canyon Creek; Milling and domestic; No action.
14313 6- 2-52 R. E. Danner, Lequerica Bros., Harry Lequerica, Orville G. Fretwell and Domingo Obeita; Rock Canyon; Domestic; No action.
14314 6- 2-52 Henry Crowe; East Fork Jarbidge River; Irrigation and domestic; No action.
14315 6- 2-52 John Jennings; Underground; Quasi-municipal; No action.
14316 6- 2-52 Kelly F. Naples; Underground; Quasi-municipal; No action.
14317 6- 3-52 Fred H. Callihan, Jr.; Underground; Quasi-municipal; No action.
14318 6- 3-52 James Powell; Underground; Irrigation and domestic; No action.
14319 6- 3-52 W. H. Barlow; Underground; Irrigation and domestic; No action.
14320 6- 3-52 G. W. McLennan; Underground; Irrigation and domestic; No action.
14321 6- 3-52 Wm. J. Benaberg; Underground; Irrigation and domestic; No action.
14322 6- 4-52 Harry Richman; Shallow Well or Spring; Stockwatering and domestic; No action.
14323 6- 4-52 Muriel M. Green; Underground; Irrigation and domestic; No action.
14324 6- 4-52 Muriel M. Green; Underground; Irrigation and domestic; No action.
14325 6- 4-52 John L. Green; Underground; Irrigation and domestic; No action.
14326 6- 9-52 Harry H. Horlacher; Underground; Irrigation and domestic; No action.
14327 6- 9-52 Robert W. Hilsberg; Underground; Irrigation and domestic; Withdrawn by applicant June 24, 1952.
14328 6- 9-52 Willis R. Edwards; Underground; Irrigation and domestic; Withdrawn by applicant June 24, 1952.
14329 6-10-52 Olive Craig; Underground; Irrigation and domestic; No action.
14330 6-10-52 R. D. Bingham; Underground; Quasi-municipal; No action.
14331 6-12-52 Julius A. D'Anna, George Arquilla, W. E., George D., and John R. Gorton; Six Mile Canyon; Irrigation and domestic; No action.
14332 6-16-52 Louis and Rose Molasky; Underground; Hotel and domestic; No action.
14333 6-16-52 Henry E. or Minnie E. Heidenreich; Duval Spring; Irrigation and domestic; No action.
14334 6-18-52 Barbara S. Vorpahl; Underground; Irrigation and domestic; No action.
14335 6-18-52 Jack L. Schofield; Underground; Irrigation and domestic; No action.
14336 6-18-52 Martha L. Mathews; Underground; Irrigation and domestic; No action.
14337 6-18-52 Benjamin T. and Jean C. Franklin; Underground; Irrigation; No action.
14338 6-19-52 James Garrett; Underground; Irrigation and domestic; No action.
14339 6-19-52 Nelson Kavanaugh; Underground; Irrigation and domestic; No action.
14340 6-19-52 Ralph V. Smith; Underground; Irrigation and domestic; No action.
14341 6-19-52 James H. and Mary Jane Gobble; Underground; Irrigation and domestic; No action.
14342 6-19-52 Frank H. Wells; Underground; Irrigation and domestic; No action.
14343 6-19-52 Jesse C. and Hazel F. Wells; Underground; Irrigation and domestic; No action.
14344 6-19-52 Clarence A. and Clarvid A. Lewis; Underground; Irrigation and domestic; No action.
14345 6-19-52 Clarence A. and Clarvid A. Lewis; Underground; Irrigation and domestic; No action.
14346 6-20-52 G. S. and Althea M. Williams; Surplus Water; Irrigation; No action.
14347 6-23-52 Mesquite Farmstead Water Assn.; Underground; Town supply and domestic; No action.
14348 6-25-52 Frank A. Hunt; Underground; Irrigation and domestic; No action.
14349 6-25-52 Daniel E. Beulah M., Ervin E. and Marian E. Hill; Mosquito Creek Wash; Irrigation and domestic; No action.
14350 6-25-52 Anna M. Sim; Underground; Irrigation and domestic; No action.
14351 6-25-52 Walter N. Sim; Underground; Irrigation and domestic; No action.
14352 6-25-52 Henrietta E. Miller; Underground; Irrigation and domestic; No action.
14353 6-25-52 Haven E. Jacobsen; Underground; Irrigation and domestic; No action.
14354 6-25-52 Grace S. Hillyard; Underground; Irrigation and domestic; No action.

14355 6-25-52 Evelyn O. Hagstrom; Underground; Irrigation and domestic; No action.
14356 6-25-52 Thomas E. Hillyard; Underground; Irrigation and domestic; No action.
14357 6-25-52 Alonzo R. Mathews; Underground; Irrigation and domestic; No action.
14358 6-25-52 Thomas Schofield; Underground; Irrigation and domestic; No action.
14359 6-25-52 Thomas R. Harris; Underground; Irrigation and domestic; No action.
14360 6-26-52 Vern R. and Ralph G. Farman; Sheep Springs Creek Flood Waters; Irrigation and domestic; No action.
14361 6-27-52 John E. Smith; Pine Tree Springs; Stockwatering and domestic; No action.
14362 6-27-52 John E. Smith; Summit Springs; Stockwatering and domestic; No action.
14363 6-27-52 John E. Smith; Tin Can Springs; Stockwatering and domestic; No action.
14364 6-27-52 John E. Smith; Willow Spring; Stockwatering and domestic; No action.
14365 6-27-52 John E. Smith; Little Antelope Springs; Stockwatering and domestic; No action.
14366 6-27-52 John E. Smith; Big Antelope Springs; Stockwatering and domestic; No action.
14367 6-27-52 John E. Smith; Cavanaugh Springs; Stockwatering and domestic; No action.
14368 6-27-52 John E. Smith; Tie Cabin Springs; Stockwatering and domestic; No action.
14369 6-27-52 John E. Smith; Flat Rock Springs; Stockwatering and domestic; No action.
14370 6-27-52 John E. Smith; Murder Springs; Stockwatering and domestic; No action.
14371 6-27-52 Marcia Stewart; Underground; Irrigation and domestic; No action.
14372 6-27-52 Mrs. Neva E. Williams; Underground; Irrigation and domestic; No action.
14373 6-27-52 Wm. A. Wegge, Jr.; Underground; Irrigation and domestic; No action.
14374 6-27-52 Hubert Stewart; Underground; Irrigation and domestic; No action.
14375 6-27-52 Mrs. Veda Williamson; Underground; Irrigation and domestic; No action.
14376 6-27-52 Mary Ella Dow; Underground; Irrigation and domestic; No action.
14377 6-30-52 Ugo Giorgi and Sons; Underground; Domestic; No action.
14378 6-30-52 Ugo Giorgi and Sons; Underground; Domestic; No action.
14379 6-30-52 Ugo Giorgi and Sons; Underground; Domestic; No action.
14380 6-30-52 Leland Hendrix; Underground; Irrigation; No action.
14381 6-30-52 Albert Gubler; Underground; Irrigation; No action.

APPENDIX 4

Status of Applications Filed Prior to July 1, 1950

Following is a condensed statement giving the salient data in connection with applications filed prior to July 1, 1950, upon which action has been taken during the present biennium, in the order of:

1. Application serial number.
2. Date of filing.
3. Name of applicant.
4. Source of water supply.
5. Purpose of appropriation.
6. Status on applications.
7. Status of permits as of June 30, 1952.

5190 5-18-19 True Vencill; Old River Branch of Carson River; Irrigation and domestic; Denied October 30, 1950.

5191 5-18-19 True Vencill; Old River Branch of Carson River; Irrigation and domestic; Denied October 30, 1950.

5192 5-18-19 R. L. Douglas; Old River (Carson Branch); Irrigation and domestic; Denied December 29, 1950.

5196 5-12-19 George H. Mitchell; Old River Branch of Carson River; Irrigation; Denied December 29, 1950.

5202 5-16-19 Charles E. Kent; Old River Branch of Carson River; Irrigation, stockwatering and domestic; Denied December 29, 1950.

5206 5-21-19 Charles E. Kent; Dutch Hill Lake; Irrigation, stockwatering and domestic; Denied December 29, 1950.

5227 6- 4-19 R. L. Douglass; South Fork Carson River; Irrigation; Denied December 29, 1950.

5616 7-14-19 C. M. Hoover; Old River Branch of Carson River; Irrigation and stockwatering; Denied December 29, 1950.

5617 7-14-19 E. B. Cornell; Old River Branch of Carson River; Irrigation; Denied December 29, 1950.

6273 9-29-20 W. H. Russell; Unnamed Spring; Irrigation and domestic; Denied September 20, 1950.

6414 3- 4-21 Austin J. Nugent; Underground; Irrigation and domestic; Cancelled December 11, 1950, because of failure of applicant to comply with the provisions of permit.

6583 11- 3-21 Walker River Irrigation Co.; Unnamed Stream; Irrigation and domestic; Approved February 15, 1952. G. S.

6671 3-12-22 H. W. Griffith; Fletcher Spring; Irrigation, stockwatering and domestic; Cancelled October 17, 1950, because of failure of applicant to comply with the provisions of permit.

7581 11-27-25 Potts Bros.; Willow Spring; Stockwatering; Withdrawn by applicant September 11, 1951.

7582 11-27-25 Potts Bros.; Willow Spring; Stockwatering; Withdrawn by applicant September 11, 1951.

7583 11-27-25 Potts Bros.; Road Canyon Spring; Stockwatering; Withdrawn by applicant September 11, 1951.

7684 4- 5-26 W. H. Getchell; Rock Creek; Irrigation; Withdrawn by applicant October 25, 1951.

7795 6-30-26 H. P. Carville; Snowball Spring; Stockwatering and domestic; Approved January 31, 1951. G. S.

7796 6-30-26 H. P. Carville; Snowball Spring; Stockwatering and domestic; Approved January 31, 1951. G. S.

7797 6-30-26 H. P. Carville; Snowball Spring; Stockwatering and domestic; Approved January 31, 1951. G. S.

7798 6-30-26 H. P. Carville; Snowball Spring; Stockwatering and domestic; Approved January 31, 1951. G. S.

8051 5-12-27 Joe Cazier and John Manzonie; Albert Spring; Stockwatering; Denied December 29, 1950.

8250 2- 7-27 Charles W. Straight; Stillwater Slough; Irrigation; Denied December 29, 1950.

8482 2- 1-28 H. W. Griffith; Kyle Spring; Irrigation and domestic; Cancelled October 17, 1950, because of failure of applicant to comply with the provisions of permit.

8741 11- 7-28 Segura Bros.; Underground; Stockwatering and domestic; Approved January 29, 1952. G. S.

8919 2-23-29 W. T. Jenkins Co.; Red Rock Spring; Stockwatering and domestic; Approved February 8, 1952. G. S.

8937 6-12-29 W. T. Jenkins Co.; Harry Canyon; Stockwatering; Approved February 8, 1952. G. S.

8938 6-12-29 W. T. Jenkins Co.; Harry Canyon; Stockwatering; Approved February 8, 1952. G. S.

9190 12-23-29 J. B. Sorhouet; Underground; Stockwatering and domestic; Approved November 1, 1950. G. S.

9279 11-22-30 J. B. Sorhouet; Moore's Station Creek and tributaries; Irrigation and domestic; Approved November 1, 1950. G. S.

9281 11-22-30 J. B. Sorhouet; Needle Spring No. 1; Stockwatering and domestic; Approved November 1, 1950. G. S.

9735 8- 4-34 Michael Knopf; Cottonwood Creek and tributaries; Irrigation and domestic; Cancelled March 12, 1952, because of failure of applicant to comply with the provisions of permit.

10089 3-11-37 John A. Houlahan; Brickyard Spring; Mining and milling; Withdrawn by applicant June 28, 1951.

10098 3-12-37 U. S. of America; Interior Dept.; National Park Service; Blue Point Spring; Recreational and domestic; Withdrawn by applicant July 18, 1950.

10142 7-26-37 C. H. Jones; Unnamed Spring; Mining, milling and domestic; Withdrawn by applicant June 28, 1951.

10204 10-24-38 Albert E. Woods; Rocky Spring; Stockwatering; Denied July 23, 1951.

10245 3-11-39 Mrs. Effie M. Fisk; No name Springs; Mining and domestic; Denied August 14, 1951.

10259 6-19-39 Charles H. Griffith; Underground; Mining, milling and domestic; Cancelled November 16, 1951, because of failure of applicant to comply with the provisions of permit.

10286 6-21-39 George Leonard, Trustee; Franktown Creek and tributaries; Irrigation and domestic; Denied February 14, 1951.

10287 6-23-39 Gray Eagle Mining Co.; Underground; Mining, milling and domestic; Denied August 16, 1951.

10414 8-28-39 Earnest L. Quist; Meadow Valley Wash; Mining, milling and domestic; Cancelled November 9, 1950, because of failure of applicant to comply with the provisions of permit.

10437 11- 6-39 H. A. Yelland; Nigger Creek; Irrigation; Denied July 21, 1950.

10451 12- 7-39 John Crosby, Jr.; Unnamed Spring; Mining, milling and domestic; Withdrawn by applicant July 27, 1950.

10487 4- 8-40 J. M. Collins; Nigger Creek and tributaries; Irrigation and domestic; Approved August 29, 1951. G. S.

10529 7-10-40 C. E. Townsend; Monte Cristo Spring; Mining, milling and domestic; Withdrawn by applicant July 16, 1951.

10540 7-19-40 Bruneau Gold, Inc.; Unnamed Spring; Domestic; Denied May 29, 1951.

10551 11- 6-40 Frederick Steigmeyer; Underground; Mining and domestic; Denied July 23, 1951.

10598 11-26-40 Lois Kellogg II; Underground; Irrigation and domestic; Withdrawn by applicant September 13, 1951.

10607 1- 2-41 Fred S. Talcott; Flood Waters; Irrigation and domestic; Cancelled May 10, 1951, because of failure of applicant to comply with the provisions of permit.

10613 1-27-41 John H. Conaway; Underground; Irrigation; Withdrawn by applicant December 8, 1950.

10634 3-12-41 Arthur S. Nichols; Woodman Spring; Mining, milling and domestic; Withdrawn by applicant August 23, 1951.

10672 5-26-41 Fort Pierre, Inc.; San Jose Tunnel; Mining, milling and domestic; Denied August 1, 1950.

10705 7-21-41 Caliente Public Utilities; Clover Wash; Municipal; Withdrawn by applicant June 18, 1951.

10724 9- 6-41 Joe Gruden; Snake Creek; Power and domestic; Denied July 23, 1951.

10725 10- 4-41 Joe Gruden; Snake Creek; Mining, milling and domestic; Denied July 23, 1951.

10744 10-14-41 International Smelting & Refining Co.; Underground; Domestic; Withdrawn by applicant October 25, 1950.

10748 10-23-41 J. H. Manson; Unnamed Spring; Mining, milling and domestic; Cancelled January 9, 1951, because of failure of applicant to comply with the provisions of permit.

10756 11-12-41 Russell Campbell; Lime Kiln Canyon; Mining, milling and domestic; Denied July 23, 1951.

10768 12-21-41 William Clark and C. H. Henderson; Waste Water; Irrigation; Denied October 30, 1950.

10801 4- 1-42 H. T. Rodgers; Big Meadow Slough; Irrigation; Approved October 22, 1950. G. S.

10833 6- 9-42 Frederick Steigmeyer; Shoshone Creek; Mining; Denied July 23, 1951.

10842 6-26-42 H. T. Rogers; Reservoir Spring; Irrigation and domestic; Withdrawn by applicant July 21, 1950.

10852 8-17-42 John Yelland; Chokecherry Spring; Irrigation; Denied July 21, 1950.

10953 4-28-43 Jake, Boyle, Ina Marie and Donnie Easley; Underground; Quasi-municipal; Denied May 24, 1951.

10977 8- 9-43 Benjamin Brodsky; Underground; Irrigation and domestic; Cancelled October 26, 1950, because of failure of applicant to comply with the provisions of permit.

10979 8-14-43 George S. Reed; Little Humboldt River; Power; Cancelled February 6, 1951, because of failure of applicant to comply with the provisions of permit.

10095 9- 7-43 Hi-T-Tungsten Co.; Summerfield Spring; Milling and domestic; Denied August 14, 1951.

11009 9-20-43 J. R. and D. B. Murphy, A. M. Phippen and R. L. Pollock; Monte Cristo Spring; Milling and domestic; Denied July 21, 1953.

11061 9-21-43 J. F. Cayton; Underground; Irrigation and domestic; Cancelled January 3, 1951, because of failure of applicant to comply with the provisions of permit.

11017 10- 1-43 Robert Landsborough; Underground; Irrigation and domestic; Denied August 14, 1951.

11084 3- 9-44 E. M. Booth; Underground; Mining and domestic; Cancelled February 29, 1952, because of failure of applicant to comply with the provisions of permit.

11088 3-17-44 R. J. Kelly and V. E. Greenwald; Lower Indian Spring; Stockwatering; Cancelled August 2, 1951, because of failure of applicant to comply with the provisions of permit.

11105 4-14-44 Frank Pastorino; Underground; Stockwatering and domestic; Approved June 28, 1951. G. S.

11106 4-15-44 Howard R. Clinger and E. Penn Smith; Mica Mountain Spring; Mining and domestic; Cancelled September 15, 1950, because of failure of applicant to comply with the provisions of permit.

11125 6-21-44 Simone Lompa; Waste Water; Irrigation and domestic; Cancelled October 9, 1950, because of failure of applicant to comply with the provisions of permit.

11136 6-27-44 Dept. of Highways; Callaway Spring; Domestic; Withdrawn by applicant March 18, 1952.

11141 6-23-44 Angelo C. Floris; Underground; Stockwatering; Denied April 10, 1951.

11188 10- 2-44 A. C. Floris; Underground; Stockwatering; Approved May 8, 1951. G. S.

11208 11-21-44 C. C. Marasco; Waste Water; Irrigation; Denied October 20, 1950.

11216 12-21-44 Marion K. Stewart; Bird Spring; Stockwatering and domestic; Denied August 14, 1951.

11236 1-25-45 J. H. Frasher; Underground; Mining and domestic; Withdrawn by applicant June 25, 1951.

11316 6-26-45 Otto Ziegs and Henry T. Giller; Carbonate Mill Site Spring; Mining, milling and domestic; Denied August 14, 1951.

11322 6-30-45 Victor V. and Marjorie H. Kunkel; Underground; Quasi-municipal and domestic; Withdrawn by applicant May 7, 1951.

11358 8-15-45 Arnold Zeuge; Underground; Quasi-municipal; Cancelled August 20, 1951, because of failure of applicant to comply with the provisions of permit.

11340 9- 4-45 Marguerite D. Quinby; Underground; Mining, milling and domestic; Cancelled June 20, 1951, because of failure of applicant to comply with the provisions of permit.

11377 10- 1-45 John H. Conaway; Joshua Spring; Stockwatering and domestic; Denied October 12, 1951.

11378 10- 1-45 John H. Conaway; Horn Spring; Stockwatering and domestic; Approved November 1, 1950. G. S.

11387 10-13-45 John H. Conaway; Mona Spring; Stockwatering and domestic; Approved November 1, 1950. G. S.

11448 12-17-45 Pete Etcheverry; Underground; Stockwatering; Approved April 23, 1951. G. S.

11449 12-17-45 Pete Etcheverry; Underground; Stockwatering; Approved April 23, 1951. G. S.

11443 12-21-45 Ross F. Steele; Troy Creek; Power and domestic; Cancelled June 20, 1951, because of failure of applicant to comply with the provisions of permit.

11452 1-10-46 Mark G. Bradshaw; Pogonip Spring; Mining and milling; Cancelled January 3, 1951, because of failure of applicant to comply with the provisions of permit.

11481 1-10-46 R. J. Kelly and V. E. Greenwald; Underground; Stockwatering; Cancelled August 2, 1951, because of failure of applicant to comply with the provisions of permit.

11485 1-10-46 James M. Daniels; Underground; Stockwatering; Certificate issued.

11490 1-10-46 John H. Conaway; Underground; Stockwatering and domestic; Withdrawn by applicant November 13, 1951.

11491 1-21-46 Helena T. Crutchfield; Jones Creek; Irrigation and domestic; Cancelled April 24, 1951, because of failure of applicant to comply with the provisions of permit.

11498 2- 6-46 Wilbur Clark; Underground; Quasi-municipal and domestic; Withdrawn by applicant December 10, 1951.

11534 4- 4-46 First National Bank of Nevada; Trustee for Viola Sauer; Old Frank Spring; Irrigation and domestic; Approved December 17, 1951. G. S.

11535 4- 4-46 H. H. Costerisan; Underground; Irrigation; Approved July 25, 1951. G. S.

11561 4-27-46 Dr. E. A. Vincent; Underground; Irrigation and domestic; Cancelled April 14, 1951, because of failure of applicant to comply with the provisions of permit.

11561 4-29-46 C. E. Smoke: Underground; Irrigation and domestic; Cancelled May 15, 1952, because of failure of applicant to comply with the provisions of permit.

11577 5-16-46 William A. Johnson; Underground; Irrigation and domestic; Cancelled July 23, 1951, because of failure of applicant to comply with the provisions of permit.

11597 6-10-46 B. J. Kaltenborn; Underground; Irrigation and domestic; Cancelled October 22, 1951, because of failure of applicant to comply with the provisions of permit.

11598 6-10-46 Harry Mack; Underground; Quasi-municipal and domestic; Withdrawn by applicant April 16, 1951.

11601 6-10-46 Murray Wollman; Underground; Quasi-municipal and domestic; Withdrawn by applicant September 25, 1950.

11611 6-13-46 Thomas T. and Della Schofield; Underground; Irrigation and domestic; Cancelled June 1, 1951, because of failure of applicant to comply with the provisions of permit.

11636 7-17-46 L. A. Wottishek; Underground; Quasi-municipal and domestic; Cancelled July 23, 1951, because of failure of applicant to comply with the provisions of permit.

11672 8-24-46 Natalie F. and H. D. Cornell; Underground; Irrigation and domestic; Cancelled August 28, 1950, because of failure of applicant to comply with provisions of permit.

11686 8-26-46 J. O. and Marian A. Eads; Natural Spring; Stockwatering and domestic; Cancelled July 12, 1951, because of failure of applicant to comply with the provisions of permit.

11688 9-11-46 H. R. Humphrey; E. J. Shirley and Stanley Chiatovich; Underground; Stockwatering; Cancelled February 7, 1951, because of failure of applicant to comply with the provisions of permit.

11698 9-27-46 Ruth Botsford; Buck and Sennbia Creeks; Irrigation; Cancelled January 9, 1951, because of failure of applicant to comply with the provisions of permit.

11702 10- 5-46 V. E. Greenwald; Underground; Stockwatering; Cancelled May 15, 1951, because of failure of applicant to comply with the provisions of permit.

11707 10- 5-46 V. E. Greenwald; Timber Mountain Spring; Stockwatering; Cancelled May 15, 1951, because of failure of applicant to comply with the provisions of permit.

11704 10- 5-46 V. E. Greenwald; Underground; Stockwatering; Cancelled May 15, 1951, because of failure of applicant to comply with the provisions of permit.

11707 10-10-46 Elda A., John T., and William O. Gilcrease; Withdrawn by applicant August 1, 1951.

11709 10-11-46 L. A. Wottishek; Underground; Quasi-municipal; Cancelled October 24, 1951, because of failure of applicant to comply with the provisions of permit.

11712 10-29-46 W. L. Petersen; Upper Smoky Valley Channel; Irrigation; Withdrawn by applicant July 14, 1950.

11715 11- 4-46 Charles J. and Martha W. McComb; Underground; Irrigation and domestic; Cancelled May 15, 1952, because of failure of applicant to comply with the provisions of permit.

11722 11-20-46 William H. Barry; Underground; Irrigation and domestic; Cancelled August 24, 1951, because of failure of applicant to comply with the provisions of permit.

11736 12-17-46 Louis Peterson; Diamond Spring; Domestic; Approved March 2, 1951. G. S.

11737 12-17-46 Louis Peterson; Arrow Spring; Domestic; Approved March 2, 1951. G. S.

11741 1- 6-47 Norman and Lester Shurtliff; Underground; Irrigation and domestic; Approved May 1, 1951. G. S.

11742 1- 6-47 Norman and Lester Shurtliff; Underground; Irrigation and domestic; Approved July 25, 1951. G. S.

11761 1-24-47 James Irving; Underground; Domestic and manufacturing; Cancelled February 6, 1951, because of failure of applicant to comply with the provisions of permit.

11768 2- 6-47 W. L. Fisk; Shady Run Canyon Springs; Stockwatering and domestic; Cancelled December 18, 1951, because of failure of applicant to comply with the provisions of permit.

11785 2-21-47 H. C. and Naomi M. Harris; Las Vegas Wash; Irrigation; Cancelled September 13, 1951, because of failure of applicant to comply with the provisions of permit.

11792 3- 5-47 Floyd Burnett; Underground; Quasi-municipal and domestic; Cancelled July 18, 1950, because of failure of applicant to comply with the provisions of permit.

11810 3-25-47 V. E. Greenwald; Wagon Spring; Stockwatering; Cancelled May 15, 1951, because of failure of applicant to comply with the provisions of permit.

11815 4- 4-47 Peter Piccoli and Toni Bruno; Waste Water; Irrigation; Cancelled May 1, 1951, because of failure of applicant to comply with the provisions of permit.

11823 4-17-47 James M. Staley; Bell Springs; Irrigation and domestic; Cancelled October 9, 1950, because of failure of applicant to comply with the provisions of permit.

11840 5- 1-47 R. A. Coffman; Underground; Quasi-municipal and domestic; Cancelled June 13, 1952, because of failure of applicant to comply with the provisions of permit.

11842 5- 5-47 Loretta J. Hardy; Underground; Irrigation and domestic; Cancelled July 18, 1950, because of failure of applicant to comply with the provisions of permit.
11851 5-22-47 Matley Bros.; Sugar Cane Spring; Irrigation; Cancelled August 21, 1950, because of failure of applicant to comply with the provisions of permit.
11855 5-23-47 Zephyr Cove Water Co.; Lake Tahoe; Municipal and domestic; Approved July 10, 1951. G. S.
11878 6-18-47 Monitor Land & Livestock Co.; Stoneberger Creek; Irrigation and domestic; Cancelled January 9, 1951, because of failure of applicant to comply with the provisions of permit.
11885 6-25-47 Walter Corkins; Underground; Quasi-municipal and domestic; Cancelled September 12, 1950, because of failure of applicant to comply with the provisions of permit.
11954 8-11-47 St. Lawrence Mining Co.; Unnamed Spring; Milling and domestic; Cancelled June 12, 1952, because of failure of applicant to comply with the provisions of permit.
11995 9- 1-47 Mt. Wheeler Ranch; Underground; Irrigation; Cancelled January 2, 1951, because of failure of applicant to comply with the provisions of permit.
11997 9- 2-47 James and Ida Compston; China Springs; Stockwatering; Withdrawn by applicant August 14, 1951.
12046 10-14-47 Louise Morrison; Mason Spring; Irrigation and domestic; Approved July 14, 1950. G. S.
12072 11-14-47 Bess Westmoreland; Small Spring; Domestic; Approved August 29, 1950. G. S.
12077 11-15-47 M. E. Grout; Underground; Stockwatering; Cancelled July 27, 1950, because of failure of applicant to comply with the provisions of permit.
12078 11-15-47 M. E. Grout; Underground; Stockwatering; Cancelled July 27, 1950, because of failure of applicant to comply with the provisions of permit.
12082 11-15-47 George Whittell; Unnamed Springs and tributaries; Domestic; Approved October 3, 1951. G. S.
12110 11-21-47 Seymour B. Hodgers; Dewey Allen and Hugh Cost; Underground; Irrigation and domestic; Cancelled October 26, 1951, because of failure of applicant to comply with the provisions of permit.
12112 11-24-47 Charles H. Beckerman; Underground; Irrigation and domestic; Cancelled November 14, 1951, because of failure of applicant to comply with the provisions of permit.
12130 12-16-47 Otto Curnow; Underground; Irrigation and domestic; Withdrawn by applicant April 9, 1951.
12153 1- 6-48 T. A. McCall; Underground; Stockwatering and domestic; Withdrawn by applicant August 27, 1951.
12154 1- 6-48 T. A. McCall; Underground; Stockwatering and domestic; Cancelled October 26, 1951, because of failure to refile corrected application within statutory time.
12164 1-14-48 Clark Burton and A. E. Yost; Box Canyon Creek; Irrigation and domestic; Denied August 14, 1951.
12241 1-29-48 St. Elmo Mining Co., Inc.; Cornwall Spring; Mining, milling and domestic; Withdrawn by applicant September 19, 1951.
12217 2-10-48 John W. and Hetty C. Kelley; Underground; Quasi-municipal and domestic; Cancelled May 3, 1951, because of failure of applicant to comply with the provisions of permit.
12235 2-25-48 William M. Turner; Underground; Irrigation and domestic; Cancelled November 9, 1950, because of failure of applicant to comply with the provisions of permit.
12242 2-25-48 James M. Daniels; Stonewall Spring; Stockwatering; Approved March 14, 1951. Certificate issued.
12244 2-25-48 James M. Daniels; Anderson Well; Stockwatering; Approved March 14, 1951. Certificate issued.
12262 2-25-48 James M. Daniels; Gold Reef Spring; Stockwatering; Approved October 22, 1950. Certificate issued.
12288 2-29-48 C. D., D. L., and G. L. Stewart; Tunnel Spring No. 1; Stockwatering and domestic; Approved November 1, 1950. G. S.
12410 4-12-48 John F. and Bernice R. Kincaid; Main Cottonwood Creek; Stockwatering; Denied January 16, 1951.
12416 4-17-48 Leland Clair Easley; Main Cottonwood Creek Spring and tributaries to Cottonwood Channel; Irrigation and domestic; Approved March 1, 1951. G. S.
12425 4-20-48 A. W. and Hildreth Hannabeld; Waste Water; Irrigation; Withdrawn by applicant June 2, 1952.
12449 5-18-48 A. C. Florio; Underground; Stockwatering and domestic; Denied June 6, 1952.
12450 5-18-48 A. C. Florio; Underground; Irrigation and domestic; Denied June 6, 1952.
12452 5-19-48 A. E. Hosack; Underground; Irrigation and domestic; Approved August 8, 1950. G. S.
12454 5-19-48 A. E. Hosack; Underground; Irrigation and domestic; Approved August 8, 1950. G. S.
12455 5-19-48 A. E. Hosack; Underground; Irrigation and domestic; Cancelled August 1, 1951, because of failure of applicant to comply with the provisions of permit.
12468 5-27-48 William J. Stinson; Iron Tank Spring; Stockwatering; Cancelled January 22, 1952, because of failure of applicant to comply with the provisions of permit.

12471 6- 2-48 Harrison Grove; Boyd Creek; Irrigation and domestic; Denied March 20, 1951.

12472 6- 2-48 Paradise Valley Corporation; Underground; Irrigation and domestic; Approved October 22, 1950. G. S.

12474 6- 2-48 Lahontan Placers; Underground; Mining and domestic; Withdrawn by applicant November 26, 1951.

12478 6- 4-48 John P. and Bernice E. Kincaid; Wild Indian Spring; Stockwatering; Denied January 26, 1951.

12479 6- 4-48 John P. and Bernice E. Kincaid; North Cottonwood Spring; Stockwatering; Denied January 26, 1951.

12480 6- 4-48 John P. and Bernice E. Kincaid; Center Cottonwood Spring; Stockwatering; Denied January 26, 1951.

12481 6- 4-48 John P. and Bernice E. Kincaid; South Cottonwood Spring; Stockwatering; Denied January 26, 1951.

12482 6- 4-48 John P. and Bernice E. Kincaid; West Fork Indian Creek Spring; Stockwatering; Denied January 26, 1951.

12524 7- 6-48 Julius Redelius; Unnamed Spring; Mining, milling and domestic; Approved August 8, 1950. G. S.

12525 7- 6-48 Ralph Windsor; 102 Spring; Stockwatering; Cancelled August 13, 1951, because of failure of applicant to comply with the provisions of permit.

12526 7- 6-48 Ralph Windsor; Bramer Spring; Stockwatering; Cancelled August 13, 1951, because of failure of applicant to comply with the provisions of permit.

12527 7- 6-48 Ralph Windsor; Clay Pit; Stockwatering; Cancelled September 11, 1951, because of failure of applicant to comply with the provisions of permit.

12530 7- 9-48 Josephine Rinehart; Blue Lakes; Irrigation and domestic; Withdrawn by applicant April 16, 1951.

12571 8- 9-48 H. T. Rogers; Baron Spring; Irrigation and domestic; Approved September 28, 1950. G. S.

12573 8-11-48 George Whitsell; Lake Tahoe; Resort and domestic; Approved July 19, 1951. G. S.

12585 8-20-48 William L. Meikle; Underground; Quasi-municipal and domestic; Approved July 21, 1950. Certificate issued.

12603 8-26-48 E. L. Cord; North Icehouse Spring; Stockwatering; Approved March 1, 1951. G. S.

12604 8-27-48 George Huseman and Sons; Lower Pine Valley Spring; Irrigation and domestic; Cancelled May 2, 1951, because of failure of applicant to comply with the provisions of permit.

12607 9- 3-48 Mark G. Bradshaw; Underground; Mining and milling; Approved June 25, 1951. G. S.

12614 9- 8-48 Marlyn M. Madden; Pine Springs; Irrigation and domestic; Cancelled January 22, 1952, because of failure of applicant to comply with the provisions of permit.

12615 9- 8-48 Marlyn M. Madden; Deer Springs; Stockwatering; Denied January 26, 1951.

12616 9- 8-48 Marlyn M. Madden; Rock Springs; Stockwatering; Denied January 26, 1951.

12617 9- 8-48 Marlyn M. Madden; Quaker Springs; Stockwatering; Denied January 26, 1951.

12619 9- 8-48 J. D. Murphy; Underground; Irrigation and domestic; Approved May 8, 1951. G. S.

12621 9- 8-48 J. D. Murphy; Underground; Irrigation and domestic; Approved August 6, 1951. G. S.

12622 9- 8-48 J. D. Murphy; Underground Irrigation and domestic; Approved May 8, 1951. G. S.

12626 9- 9-48 R. D. Goforth and L. A. Horgan; Underground; Irrigation and domestic; Approved July 19, 1951. G. S.

12629 9-11-48 Josephine Rinehart; Blue Lakes; Irrigation and domestic; Withdrawn by applicant April 16, 1951.

12636 9-14-48 E. L. Cord; White Rock Spring; Stockwatering; Approved March 1, 1951. G. S.

12644 9-17-48 J. A. Singer; Underground; Irrigation and domestic; Cancelled April 30, 1952, because of failure of applicant to comply with the provisions of permit.

12646 9-22-48 Maud H. Goering; Underground; Mining; Cancelled July 18, 1950, because of failure of applicant to comply with the provisions of permit.

12647 9-22-48 Fred L. Cole, Elsey C. Williams and Florence Livingston; Midas Pond; Approved September 27, 1950. G. S.

12652 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12653 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12654 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12655 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12656 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12657 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12658 9-28-48 Leo A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12659 9-28-48 Lee A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12660 9-28-48 Lee A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12661 9-28-48 Lee A. Bourke; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1950.

12670 10- 4-48 Jack G. Hubbard; Snowball Spring; Irrigation and domestic; Denied January 26, 1951.

12671 10- 4-48 Jack G. Hubbard; Snowball Spring No. 1; Irrigation and domestic; Denied January 26, 1951.

12672 10- 4-48 Jack G. Hubbard; Snowball Spring No. 2; Irrigation and domestic; Denied January 26, 1951.

12673 10- 4-48 Jack G. Hubbard; Snowball Spring No. 4; Irrigation and domestic; Denied January 26, 1951.

12675 10- 5-48 John F. and Bernice H. Kincaid; Wild Horse Springs; Stockwatering; Denied January 26, 1951.

12678 10- 6-48 Lahontan Placers; Underground; Mining and domestic; Withdrawn by applicant November 26, 1951.

12681 10- 7-48 A. G. Walls; James Mortensen and Ernest Douglas; Minnehaha Creek Spring; Mining, milling and domestic; Cancelled August 2, 1951, because of failure of applicant to comply with the provisions of permit.

12683 10- 8-48 W. J. Stinson; Stone Cabin Spring; Stockwatering; Cancelled November 14, 1951, because of failure of applicant to comply with the provisions of permit.

12697 10-14-48 David F. Harris; Underground; Mining and milling; Cancelled August 20, 1951, because of failure of applicant to comply with the provisions of permit.

12699 10-21-48 William M. Turner; Underground; Irrigation and domestic; Cancelled November 9, 1951, because of failure of applicant to comply with the provisions of permit.

12711 11- 4-48 Hulman F. and Arthur R. Barlow; Dutch Creek; Power; Approved May 1, 1951. G. S.

12725 11-15-48 George Hussman and Sons; Upper Pine Valley Spring; Irrigation and domestic; Cancelled May 2, 1951, because of failure of applicant to comply with the provisions of permit.

12727 11-26-48 Rex R. Clark; Underground; Stockwatering; Withdrawn by applicant May 21, 1951.

12741 11-29-48 John F. and Bernice E. Kincaid; Mulligan Spring; Stockwatering; Denied January 26, 1951.

12749 12- 8-48 Muriyn M. Madden; Butch Spring; Stockwatering; Denied January 26, 1951.

12758 12- 8-48 A. J. Slattery; Barrett Creek; Irrigation; Cancelled June 8, 1951, because of failure of applicant to comply with the provisions of permit.

12762 12- 9-48 Muriyn M. Madden; Cougar Spring; Stockwatering; Denied January 26, 1951.

12764 12- 9-48 Vern R. Smith; Indian Rock Spring; Irrigation; Approved August 17, 1950. G. S.

12767 12-14-48 Hugh K. and Ann F. and Ross G. Tipton; Gold Ace Spring; Irrigation and domestic; Cancelled June 18, 1951, because of failure of applicant to comply with the provisions of permit.

12769 12-16-48 Jesse Coleman Harris; Rio Virgin; Irrigation; Cancelled May 9, 1952, because of failure of applicant to comply with the provisions of permit.

12776 12-24-48 J. D. Murphy; Underground; Irrigation and domestic; Approved May 8, 1951. G. S.

12777 12-27-48 L. A. Horgan; M. J. Eidsall, M. Novald and George R. Post; Underground; Irrigation and domestic; Approved April 23, 1951. G. S.

12791 1- 8-49 P. K. Christman; Underground; Commercial and domestic; Approved June 28, 1951. G. S.

12792 1- 8-49 P. K. Christman; Spring; Commercial and domestic; Approved June 28, 1951. G. S.

12816 2-10-49 Dean B. Goddard; Underground; Irrigation and domestic; Cancelled August 13, 1951, because of failure of applicant to comply with the provisions of permit.

12819 2-14-49 K. G. and Mamie D. Graser; Pinup Spring; Irrigation and domestic; Cancelled July 27, 1951, because of failure of applicant to comply with the provisions of permit.

12825 2-23-49 K. L. Cleveland; Virgin River; Irrigation; Withdrawn by applicant October 5, 1950.

12831 2-28-49 Ellis J. and Margaret P. Folsom; Tuffy Spring; Irrigation and domestic; Approved November 1, 1950. G. S.

12847 3-11-49 Paul H. Floyd; Township Creek; Milling; Withdrawn by applicant July 18, 1950.

12877 4- 7-49 U. S. A. Naval Ammunition Depot; Dutch Creek; Municipal and domestic; Approved September 14, 1951. G. S.

12904 5- 7-49 Beatrice K. Swallow; Underground; Irrigation and domestic; Cancelled June 11, 1952, because of failure of applicant to comply with the provisions of permit.

12905 5- 7-49 Richard M. Swallow; Underground; Irrigation and domestic; Cancelled June 11, 1952, because of failure of applicant to comply with the provisions of permit.

12906 5- 7-49 Richard M. Swallow; Underground; Irrigation and domestic; Cancelled June 12, 1952, because of failure of applicant to comply with the provisions of permit.

12907 5- 7-49 Richard M. Swallow; Underground; Irrigation and domestic; Cancelled June 13, 1952, because of failure of applicant to comply with the provisions of permit.

12908 5- 7-49 Ethel B. Swallow; Underground; Irrigation and domestic; Approved July 24, 1950. G. S.

12909 5- 7-49 Ethel B. Swallow; Underground; Irrigation and domestic; Approved July 24, 1950. G. S.

12910 5- 7-49 Ethel B. Swallow; Underground; Irrigation and domestic; Approved July 24, 1950. G. S.

12916 5-13-49 Parley E. Harris and Parley E. Harris II; Rio Virgin; Irrigation; Approved August 17, 1950. G. S.

12932 5-27-49 Hilman D. Smith; Underground; Irrigation and domestic; Approved October 25, 1950. G. S.

12941 5-31-49 William L. Fink; Underground; Stockwatering; Cancelled July 18, 1950, because of failure of applicant to comply with the provisions of permit.

12942 5-31-49 George N. Swallow; Underground; Irrigation and domestic; Approved July 24, 1950. G. S.

12974 7- 5-49 Andrew G. Mainland and Albert L. Toner; Underground; Irrigation and domestic; Cancelled July 24, 1951, because of failure of applicant to comply with the provisions of permit.

12984 7-19-49 Twila D. Brown; Underground; Irrigation; Cancelled July 18, 1950, because of failure to file supporting map within statutory time.

12986 7-22-49 W. L. Peterson; Underground; Irrigation and domestic; Cancelled June 13, 1951, because of failure to refile corrected application within statutory time.

12987 7-22-49 D. L. Gandolfo; Underground; Irrigation and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

12994 8- 2-49 Wayne Wightman; Kitten Creek and Spring; Stockwatering; Approved September 5, 1951. G. S.

12997 8- 2-49 Arthur K. Bourne; Lake Tahoe; Quasi-municipal and domestic; Approved July 19, 1951. G. S.

12998 8- 2-49 Parley E. Harris and Parley E. Harris II; Rio Virgin; Irrigation; Approved July 24, 1950. G. S.

13005 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13006 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13007 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13008 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13009 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13010 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13011 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13012 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Cancelled July 26, 1951, because of failure of applicant to comply with the provisions of permit.

13013 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13014 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13015 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13016 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13017 8- 5-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Cancelled July 26, 1951, because of failure of applicant to comply with the provisions of permit.

13027 8-15-49 Shirley, Chiatovich & Humphrey; Little Spring; Stockwatering; Approved October 25, 1950. Certificate issued.

13032 8-26-49 Dwight G. Vedder; Underground; Irrigation; Approved October 23, 1950. G. S.

13033 8-26-49 William J. McCue; Underground; Irrigation and domestic; Approved December 6, 1950. Certificate issued.

13036 9- 2-49 Nick Yrazabal; Underground; Mining and domestic; Approved September 28, 1950. G. S.

13037 9- 7-49 Freeman E. Fairfield; Underground; Irrigation and domestic; Approved August 1, 1950. G. S.

13038 9- 7-49 Glen Jones; Underground; Irrigation and domestic; Approved April 3, 1951. G. S.

13039 9- 7-49 William J. Moore, Jr.; Underground; Irrigation and domestic; Approved April 3, 1951. G. S.

13040 9- 7-49 Joe Schramm; Underground; Irrigation and domestic; Approved April 3, 1951. G. S.

13041 9- 7-49 Alden L. Stewart; Irrigation and domestic; Approved April 3, 1951. G. S.
13042 9- 7-49 Harold F. Stewart; Underground; Irrigation and domestic; Approved April 3, 1951. G. S.
13043 9- 8-49 Albert Gubler and Leland Hendrix; White River Slough; Irrigation; Approved April 6, 1951. G. S.
13046 9-13-49 Amos Epperson; Medina Spring; Milling; Approved August 18, 1950. G. S.
13048 9-15-49 Kenneth W. Donham; Underground; Milling and domestic; Approved September 19, 1950. G. S.
13054 9-26-49 Ernest J. and Beatrice Koon; Underground; Irrigation and domestic; Approved December 6, 1950. G. S.
13055 9-26-49 Mrs. Esther P. Slagle; Underground; Irrigation and domestic; Denied January 18, 1952.
13056 9-26-49 Benjamin I. Rankin; Underground; Irrigation and domestic; Approved January 12, 1951. G. S.
13057 9-26-49 George A. Taylor; Underground; Irrigation and domestic; Denied January 18, 1952.
13058 9-29-49 Bezarth and Rudnick; Mammoth Spring; Stockwatering; Approved January 2, 1951. G. S.
13060 9-30-49 Arlene and Anita Long; Underground; Irrigation and domestic; Approved December 13, 1950. G. S.
13070 9-30-49 Cecil and Louise Rhoades; Underground; Irrigation; Denied January 18, 1952.
13072 10- 4-49 John George and Lillian R. Nickell; Underground; Irrigation and domestic; Withdrawn by applicant November 14, 1951.
13073 10- 4-49 James H. and Ruby T. Barnes; Underground; Irrigation and domestic; Denied January 18, 1952.
13075 10- 4-49 W. A. Oliver; Unnamed Spring; Irrigation and domestic; Cancelled July 18, 1950, because of failure to refile corrected application within statutory time.
13076 10- 5-49 Albertean P. Rankin; Underground; Irrigation and domestic; Denied July 23, 1951.
13077 10- 7-49 Jesse L. and Sibyl L. Nickell; Underground; Irrigation and domestic; Withdrawn by applicant December 19, 1951.
13078 10- 7-49 Jesse L. and Sibyl L. Nickell; Underground; Irrigation and domestic; Withdrawn by applicant December 5, 1951.
13079 10- 7-49 Orvil R. Roberts; Underground; Irrigation and domestic; Approved December 6, 1950. G. S.
13080 10- 7-49 Clarence J. and Dorothy Coley; Underground; Irrigation and domestic; Denied January 18, 1952.
13081 10-10-49 Segura Bros.; Surplus Water; Stockwatering and domestic; Denied August 20, 1951.
13082 10-10-49 Segura Bros.; Dry Spring; Irrigation and domestic; Approved November 8, 1951. G. S.
13083 10-10-49 Segura Bros.; Peak Spring; Stockwatering and domestic; Denied August 20, 1951.
13084 10-10-49 Segura Bros.; Middle Spring; Stockwatering and domestic; Withdrawn by applicant July 12, 1951.
13085 10-10-49 Clifton C. and Mary Lou Crauthers; Underground; Irrigation and domestic; Withdrawn by applicant January 14, 1952.
13086 10-10-49 Floyd J. and Loretta Smith; Underground; Irrigation and domestic; Cancelled January 15, 1952, because of failure to refile corrected application within statutory time.
13088 10-10-49 F. M. Fulstone, Inc.; Lower Mud Spring; Stockwatering; Approved February 14, 1951. Certificate issued.
13091 10-13-49 Hershel Smith; Underground; Irrigation and domestic; Cancelled January 7, 1952, because of failure to refile corrected application within statutory time.
13092 10-13-49 James Smith; Underground; Irrigation and domestic; Withdrawn by applicant January 15, 1952.
13093 10-13-49 Dean D. Erwin; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.
13094 10-13-49 Drew M. and Wilma J. Dugger; Underground; Irrigation; Approved May 8, 1951. G. S.
13095 10-13-49 Merle P. and Leatha L. Parrish; Underground; Irrigation and domestic; Withdrawn by applicant May 29, 1951.
13096 10-13-49 Sanford E. and Clemmie E. Hookett; Underground; Irrigation and domestic; Withdrawn by applicant January 15, 1951.
13098 10-13-49 Uriel F. and Hazel M. Jarred; Underground; Irrigation and domestic; Withdrawn by applicant December 10, 1951.
13099 10-13-49 Bernal F. and Barbara M. Dugger; Underground; Irrigation and domestic; Withdrawn by applicant March 21, 1951.
13102 10-13-49 Joe Urrizaga; Robbers Roost Spring; Stockwatering; Approved August 17, 1950. G. S.
13103 10-14-49 George P. and Anna May Woodall; Underground; Irrigation and domestic; Approved May 1, 1951. G. S.
13104 10-14-49 Ernest O. and Henrietta M. Thorne; Underground; Irrigation and domestic; Approved December 12, 1950. G. S.
13105 10-14-49 Acel E. and Hazel V. Hicks; Underground; Irrigation and domestic; Approved November 1, 1950. G. S.
13106 10-17-49 Meadow Water & Land Co.; Underground; Quasi-municipal and domestic; Approved January 31, 1951. G. S.

13109 10-17-49 William D. Glenn; Underground; Irrigation and domestic; Denied January 18, 1952.

13110 10-17-49 Homer Lockhart; Underground; Irrigation and domestic; Denied January 18, 1952.

13111 10-17-49 Gilbert L. Sibert; Underground; Irrigation and domestic; Withdrawn by applicant June 29, 1951.

13113 10-18-49 James M. Daniels; Underground; Stockwatering; Approved January 12, 1951.

13114 10-18-49 Lambertucci Bros.; Crystal Canyon; Irrigation and domestic; Approved January 31, 1951. G. S.

13115 10-18-49 Lambertucci Bros.; Main Tonopah Canyon and Tributaries; Irrigation and domestic; Approved January 31, 1951. G. S.

13117 10-19-49 C. E. and D. C. Elquist; Underground; Irrigation and domestic; Approved September 27, 1950. G. S.

13118 10-20-49 W. O. Esque; Underground; Irrigation and domestic; Denied November 5, 1951.

13120 10-21-49 Jack D. and Lavahn Wilcoxon; Underground; Irrigation and domestic; Denied July 23, 1951.

13121 10-21-49 Samuel E. and Phyllis J. Wilcoxon; Underground; Irrigation and domestic; Denied July 23, 1951.

13122 10-21-49 Leonard L. and Vernalene Baker; Underground; Irrigation and domestic; Denied July 23, 1951.

13123 10-21-49 William Harrison and Ada Mayme Davis; Underground; Irrigation and domestic; Approved April 12, 1951. G. S.

13124 10-24-49 A. L. and Maude E. DeLong; Shank's Canon; Irrigation and stockwatering; Approved March 2, 1951. G. S.

13125 10-25-49 Jesse F. Esque; Underground; Irrigation and domestic; Denied November 5, 1951.

13126 10-25-49 Samuel and Ruey A. Wilcoxon; Underground; Irrigation and domestic; Denied July 23, 1951.

13127 10-26-49 Hiko Irrigation & Water Co.; Hiko Spring; Irrigation; Cancelled July 18, 1950, because of failure to refile corrected application within statutory time.

13128 10-27-49 R. D. Graham, Jr.; Underground; Irrigation and domestic; Withdrawn by applicant December 18, 1951.

13130 10-27-49 R. D. Graham; Underground; Irrigation and domestic; Cancelled October 29, 1951. Applicant moved and left no forwarding address.

13132 11- 1-49 Jack Weldon; Underground; Irrigation and domestic; Denied July 23, 1951.

13133 11- 1-49 James J. H. Jacobs; Underground; Irrigation and domestic; Approved December 6, 1950. G. S.

13134 11- 1-49 Paul D. Ballard; Underground; Irrigation and domestic; Denied January 18, 1952.

13136 11- 1-49 Odell T. Dunkin; Underground; Irrigation and domestic; Denied January 18, 1952.

13137 11- 1-49 Derrill D. and Dorothy D. Morger; Underground; Irrigation and domestic; Withdrawn by applicant February 5, 1951.

13138 11- 1-49 J. T. Dunkin; Underground; Irrigation and domestic; Denied June 17, 1952.

13140 11- 2-49 Robert T. Rodriquez; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13141 11- 2-49 Howard E. Webb; Underground; Irrigation and domestic; Withdrawn by applicant November 16, 1951.

13142 11- 7-49 Archie L. Flowers; Underground; Irrigation and domestic; Cancelled January 7, 1952, because of failure to refile corrected application within statutory time.

13143 11- 7-49 Victor A. Supertino; Underground; Irrigation and domestic; Denied July 23, 1951.

13144 11- 7-49 William B. Flowers; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13145 11- 7-49 Freda L. Newman; Underground; Irrigation and domestic; Withdrawn by applicant July 5, 1951.

13147 11-10-49 Merrill H. Peterson; Last Chance Spring; Stockwatering and domestic; Approved August 15, 1951. Certificate issued.

13148 11-10-49 Carl L. Norris; Underground; Irrigation and domestic; Withdrawn by applicant June 29, 1951.

13149 11-10-49 Bernard E. Tyson; Underground; Irrigation and domestic; Withdrawn by applicant August 16, 1951.

13150 11-10-49 Carl Israel; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13151 11-14-49 Lonnie Rosenblum; Underground; Irrigation and domestic; Withdrawn by applicant December 3, 1951.

13152 11-14-49 Byrle Ketner; Underground; Irrigation and domestic; Withdrawn by applicant April 16, 1951.

13155 11-14-49 Keith P. Pendergraft; Underground; Irrigation and domestic; Withdrawn by applicant July 20, 1951.

13156 11-14-49 Robert M. Tubb; Tubb's Deep Spring; Irrigation and domestic; Cancelled October 16, 1950, because of failure to file supporting map within statutory time.

13157 11-14-49 Harvey S. Hale; Cow Creek; Irrigation; Withdrawn by applicant June 4, 1951.

13158 11-16-49 Dean H. Brodrick; Underground; Irrigation and domestic; Withdrawn by applicant October 16, 1950.

13159 11-16-49 George M. Norris; Underground; Irrigation and domestic; Denied July 27, 1951.

13160 11-16-49 Roy S. Echols; Underground; Irrigation and domestic; Withdrawn by applicant April 20, 1951.

13161 11-16-49 George N. Cox; Underground; Irrigation and domestic; Withdrawn by applicant November 15, 1951.

13162 11-16-49 Homer L. Probert; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13165 11-17-49 Rollo D. Norris; Underground; Irrigation and domestic; Withdrawn by applicant January 9, 1951.

13166 11-18-49 Auburn Powers; Underground; Irrigation and domestic; Denied July 25, 1951.

13167 11-18-49 Wallace F. H. Mach; Underground; Irrigation and domestic; Withdrawn by applicant July 9, 1951.

13168 11-18-49 George L. Nibert; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13169 11-21-49 Loyd K. Ketner; Underground; Irrigation and domestic; Withdrawn by applicant August 8, 1951.

13170 11-21-49 Steven A. Goodrich; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13171 11-21-49 Harold G. Ketner; Underground; Irrigation and domestic; Withdrawn by applicant April 16, 1951.

13172 11-21-49 Kenneth L. Ketner; Underground; Irrigation and domestic; Withdrawn by applicant April 16, 1951.

13177 11-28-49 John H. Foth; Underground; Irrigation and domestic; Withdrawn by applicant November 15, 1951.

13178 11-29-49 Everett O. Baker; Underground; Irrigation and domestic; Denied November 5, 1951.

13179 11-30-49 John Rodgers; Underground; Mining and domestic; Approved July 14, 1950. G. S.

13187 12- 2-49 Florence P. Gilchriest; Underground; Irrigation and domestic; Withdrawn by applicant December 5, 1951.

13188 12- 7-49 Carl F. Johnson; Lake Tahoe; Domestic; Approved December 11, 1950. Certificate issued.

13192 12-15-49 Emma G. Rogers; Underground; Stockwatering; Approved April 28, 1952. G. S.

13193 12-15-49 Clarence C. Ross; Underground; Irrigation and domestic; Withdrawn by applicant September 14, 1951.

13196 12-19-49 Hulda Foth; Underground; Irrigation and domestic; Withdrawn by applicant November 15, 1951.

13197 12-19-49 Herbert W. Foth; Underground; Irrigation and domestic; Withdrawn by applicant November 15, 1951.

13198 12-19-49 Raymond LaBarry; Underground; Stockwatering; Approved August 15, 1951. G. S.

13200 12-19-49 Raymond La Barry; Underground; Stockwatering; Approved August 15, 1951. G. S.

13203 12-21-49 Great American Mining Corp.; Underground; Mining, milling and domestic; Approved December 20, 1951. G. S.

13204 12-21-49 Great American Mining Corp.; Underground; Mining, milling and domestic; Approved December 20, 1951. G. S.

13206 12-27-49 Joe Eldridge; Smith Creek; Irrigation and domestic; Approved July 14, 1950. G. S.

13207 12-27-49 William D. Jolly; Underground; Irrigation and domestic; Withdrawn by applicant October 14, 1950.

13208 12-27-49 Franklin O. Cochran; Underground; Irrigation; Denied September 5, 1951.

13209 12-27-49 Earl A. Dillwith; Underground; Irrigation; Approved December 6, 1950. G. S.

13210 12-27-49 W. E. Dillwith; Underground; Irrigation; Approved April 2, 1951. G. S.

13213 12-28-49 Roy W. Gilchriest; Underground; Irrigation and domestic; Withdrawn by applicant July 9, 1951.

13214 12-29-49 Glenn R. Bolyard; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13217 12-30-49 D. V. Romons; Kid Spring; Stockwatering; Approved November 29, 1950. Certificate issued.

13218 12-30-49 D. V. Romons; Sheep Spring; Stockwatering; Approved November 29, 1950. Certificate issued.

13219 1- 2-50 Fred L. Gregory; Knox Spring; Irrigation; Withdrawn by applicant July 11, 1950.

13220 1- 2-50 Fred L. Gregory; Cal Young Canan Creek; Irrigation and domestic; Withdrawn by applicant July 11, 1950.

13225 1- 5-50 Jeanne E. Rydell; Underground; Irrigation and domestic; Denied July 23, 1951.

13226 1- 8-50 Dee "L" Abbott; Underground; Irrigation and domestic; Withdrawn by applicant June 29, 1951.

13227 1- 9-50 George D. Gerton; Rosie Spring; Frog raising and domestic; Cancelled January 9, 1951, because of failure of applicant to comply with the provisions of permit.

13230 1-16-50 Robert E. Taylor; Bunny Spring; Irrigation; Approved March 14, 1951. G. S.

13232 1-16-50 Alex Hegny; Underground; Stockwatering; Approved January 31, 1951. G. S.

13233 1-16-50 Dan Filippini; Underground; Stockwatering; Approved April 23, 1951. G. S.

13234 1-16-50 Dan Filippini; Underground; Stockwatering; Approved April 23, 1951. G. S.

13235 1-16-50 Dan Filippini; Underground; Stockwatering; Approved February 1, 1951. G. S.

13236 1-16-50 Dan Filippini; Underground; Stockwatering; Approved February 1, 1951. G. S.

13237 1-16-50 Dan Filippini; Underground; Stockwatering; Approved February 1, 1951. G. S.

13238 1-16-50 Dan Filippini; Underground; Stockwatering; Approved February 1, 1951. G. S.

13239 1-16-50 Dan Filippini; Underground; Stockwatering; Approved February 1, 1951. G. S.

13240 1-16-50 Dan Filippini; Underground; Stockwatering; Approved February 1, 1951. G. S.

13241 1-16-50 Dan Filippini; Underground; Irrigation; Approved February 1, 1951. G. S.

13242 1-16-50 Dan Filippini; Underground; Irrigation; Approved February 1, 1951. G. S.

13243 1-16-50 Dan Filippini; Underground; Irrigation; Approved February 1, 1951. G. S.

13244 1-23-50 A. E. W. Wemyss; Underground; Domestic; Approved December 4, 1950. Certificate issued.

13249 2- 1-50 Forrest V. Long; Underground; Irrigation and domestic; Withdrawn by applicant July 9, 1951.

13250 2- 1-50 Thomas C. Latham; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.

13251 2- 1-50 Don P. Ambler, Jr.; Underground; Irrigation; Approved August 11, 1950. G. S.

13252 2- 1-50 Don P. Ambler, Sr.; Underground; Irrigation; Approved August 11, 1950. G. S.

13253 2- 3-50 Fallini Bros.; Hot Creek; Stockwatering; Approved July 14, 1950. Certificate issued.

13254 2- 3-50 Dan Filippini; Unnamed Spring; Stockwatering; Approved February 1, 1951. G. S.

13255 2- 3-50 Charles Kielhofer; Not (Pearl) Springs; Bathing and medicinal; Approved July 24, 1950. G. S.

13256 2- 6-50 Ruby T. Barnes; Underground; Irrigation and domestic; Approved March 14, 1951. G. S.

13257 2- 6-50 Willard Petersen; Clarence Keller and L. W. Petersen; Ferguson Springs; Stockwatering; Cancelled November 17, 1950, because of failure to refile corrected application within statutory time.

13258 2- 8-50 Rex B. Clark; Underground; Stockwatering; Approved July 24, 1950. Certificate issued.

13260 2- 9-50 Orval E. Long; Underground; Irrigation and domestic; Withdrawn by applicant July 9, 1951.

13261 2-10-50 Arcularius Bros. & Hunt Land & Cattle Co.; Underground; Stockwatering and domestic; Cancelled November 17, 1950, because of failure to refile corrected application within statutory time.

13264 2-14-50 O. L. and T. G. Sheppard; Underground; Irrigation and domestic; Approved June 7, 1951. G. S.

13265 2-14-50 O. L. and T. G. Sheppard; Underground; Irrigation and domestic; Cancelled November 17, 1950, because of failure to refile corrected application within statutory time.

13266 2-14-50 Herbert N. Bohl; Nu Name Creek; Irrigation and domestic; Denied September 17, 1950.

13269 2-14-50 Clyde B. Stark; Underground; Stockwatering; Approved September 27, 1950. Certificate issued.

13270 2-20-50 Robert E. Chiara; Waste Water; Irrigation and domestic; Approved July 24, 1950. G. S.

13271 2-20-50 W. J. Ford; Underground; Irrigation; Approved December 13, 1950. G. S.

13272 2-20-50 Jess Gardner; Turner Spring; Irrigation; Approved September 18, 1951. G. S.

13273 2-20-50 Jess Gardner; Warm Springs; Irrigation; Approved September 18, 1951. G. S.

13274 2-23-50 Bernice E. Kincaid; Willow Creek; Irrigation and domestic; Denied January 24, 1951.

13275 2-23-50 William A. Sherrill; Underground; Irrigation and domestic; Approved July 14, 1950. G. S.

13276 2-27-50 Ernest Johns; Underground; Irrigation and domestic; Approved August 28, 1950. G. S.

13277 2-28-50 Louis P. Maggini; Walter's Canyon; Stockwatering; Approved August 8, 1950. G. S.

13278 3- 2-50 Las Vegas Thoroughbred Racing Assn.; Underground; Construction and domestic; Approved August 8, 1950. G. S.

13279 3- 2-50 E. H. Berryman and B. Catlin; Underground; Irrigation and domestic; Cancelled November 17, 1950, because of failure to refile corrected application within statutory time.

13280 3- 3-50 Bill DeLong, Jr.; Quinn River; Irrigation and domestic; Approved June 28, 1951. G. S.
13283 3- 6-50 James M. Daniels; Small Spring; Stockwatering; Withdrawn by applicant October 30, 1950.
13284 3- 6-50 James M. Daniels; Unnamed Spring; Stockwatering; Withdrawn by applicant October 18, 1950.
13290 3- 6-50 William J. Wade; Underground; Irrigation and domestic; Withdrawn by applicant July 9, 1951.
13291 3- 6-50 Vern Wilson; Underground; Irrigation and domestic; Withdrawn by applicant July 9, 1951.
13292 3- 6-50 John Rugar; Underground; Domestic; Approved August 8, 1950. G. S.
13293 3- 6-50 George N. Leavitt; Underground; Irrigation and domestic; Approved November 1, 1950. G. S.
13295 3- 8-50 John E. Moorhead; Underground; Irrigation and domestic; Approved April 5, 1951. G. S.
13296 3- 9-50 Francis J. Willemann; Underground; Irrigation and domestic; Approved February 1, 1951. G. S.
13297 3-10-50 H. H. Smith; Underground; Quasi-municipal; Approved July 21, 1950. G. S.
13298 3-10-50 Palomino Water Assn.; Underground; Quasi-municipal; Approved August 8, 1950. G. S.
13299 3-10-50 William R. Duggan; Underground; Irrigation and domestic; Cancelled April 23, 1951, because of failure to submit permit fee.
13300 3-10-50 Rex B. Clark; Underground; Irrigation; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.
13304 3-10-50 Emma J. Clark; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.
13305 3-13-50 Annie N. Thacker; Willow Creek; Mining; Approved July 24, 1950. G. S.
13306 3-15-50 Joseph J. Hannig; Underground; Irrigation and domestic; Approved July 21, 1950. G. S.
13307 3-15-50 Leonard A. Frechette; Underground; Quasi-municipal; Approved July 24, 1950. G. S.
13308 3-15-50 Norman T. Annett; Underground; Irrigation and domestic; Approved December 4, 1950. G. S.
13319 3-17-50 Everett Hackett; Underground; Stockwatering; Approved September 19, 1950. G. S.
13320 3-17-50 Henry McCleary Timber Co.; Cottonwood Creek and Tributaries; Irrigation and domestic; Denied January 23, 1951.
13321 3-17-50 Henry McCleary Timber Co.; Martin Creek and Tributaries; Irrigation and domestic; Denied January 23, 1951.
13322 3-17-50 Henry McCleary Timber Co.; Little Humboldt River and Tributaries; Irrigation and domestic; Denied January 23, 1951.
13325 3-20-50 John D. Winters; Underground; Stockwatering; Approved December 13, 1950. Certificate issued.
13328 3-22-50 Bernard Dumels; Underground; Stockwatering; Denied April 10, 1951.
13329 3-22-50 Cavanaugh Bros.; Underground; Quasi-municipal; Approved August 8, 1950. G. S.
13330 3-22-50 Cavanaugh Bros.; Underground; Quasi-municipal; Approved August 8, 1950. G. S.
13331 3-22-50 Cavanaugh Bros.; Underground; Quasi-municipal; Approved August 8, 1950. G. S.
13332 3-22-50 Cavanaugh Bros.; Underground; Quasi-municipal; Approved August 8, 1950. G. S.
13333 3-23-50 Clifford D. and Cecil G. Campbell; Underground; Irrigation and domestic; Approved July 24, 1950. G. S.
13334 3-24-50 C. E. Keen; Underground; Mining; Cancelled November 17, 1950, because of failure to refile corrected application within statutory time.
13335 3-27-50 Avery D. Sittner; Underground; Irrigation and domestic; Approved February 14, 1951. G. S.
13336 3-27-50 El Cortez Hotel; Underground; Refrigeration; Approved July 24, 1950. Certificate issued.
13337 3-27-50 Mrs. Joyce M. Rue; Bradford Springs No. 1, 2 and 3; Irrigation and domestic; Cancelled December 27, 1950, because of failure to refile corrected application within statutory time.
13338 3-27-50 William C. Adkins; Underground; Irrigation and domestic; Cancelled January 14, 1952, because of failure to refile corrected application within statutory time.
13339 3-28-50 Frank Harrington; Sewage water; Irrigation; Denied September 14, 1953.
13340 3-28-50 Frank Harrington; Spring; Irrigation; Approved November 1, 1950. G. S.
13341 3-28-50 Hendrix Bros.; Underground; Stockwatering; Approved November 20, 1950. G. S.
13342 3-29-50 Little Gem Mining Co.; Underground; Mining, milling and domestic; Approved May 24, 1951. G. S.
13344 3-29-50 Alex Castaing; Underground; Irrigation and domestic; Approved July 24, 1950. G. S.
13352 3-30-50 Mrs. H. Benz; Underground; Irrigation and domestic; Approved September 27, 1950. Certificate issued.

13353 3-28-50 Mrs. B. Menzi; Underground; Irrigation and domestic; Approved September 27, 1950. Certificate issued.

13354 3-28-50 Oliver Smith, Arthur and Leonard Champagne; Hazen Slough; Recreational; August 8, 1951. G. S.

13355 4- 3-50 Walter D. Sweet; Underground; Irrigation and domestic; Withdrawn by applicant October 9, 1950.

13356 4- 3-50 Jack Hyde; Underground; Irrigation and domestic; Withdrawn by applicant March 25, 1952.

13357 4- 6-50 Willard and L. W. Peterson and Clarence Keller; Underground; Stockwatering; Withdrawn by applicant July 3, 1951.

13358 4- 7-50 Harold A. Reitz; Unnamed Seep Springs; Irrigation; Approved June 7, 1951. G. S.

13359 4- 7-50 Delbert Brockman and Garret Thurman; Underground; Irrigation and domestic; Approved July 28, 1950. G. S.

13360 4-10-50 Jack M. Lantron; Underground; Irrigation and domestic; Withdrawn by applicant November 4, 1950.

13361 4-10-50 George R. and Muriel E. Fettic; Underground; Irrigation and domestic; Approved January 31, 1951. G. S.

13363 4-24-50 Alvin P. Hankins; Underground; Irrigation and domestic; Withdrawn by applicant December 5, 1951.

13364 4-28-50 Stanmore Gold Mining Co.; Lappan Creek; Mining, milling and domestic; Approved November 1, 1950. G. S.

13366 5- 2-50 City of North Las Vegas; Underground; Municipal; Approved September 25, 1950. G. S.

13367 5- 4-50 J. H. Gladys, Jess E. and Mary E. Meyers; Underground; Quasi-municipal and domestic; Approved September 25, 1950. G. S.

13368 5-10-50 Las Vegas Thoroughbred Racing Assn.; Underground; Race track; Approved August 8, 1950. G. S.

13370 5-10-50 Las Vegas Thoroughbred Racing Assn.; Underground; Domestic; Approved August 8, 1950. Abrogated by Permit 13475 to change.

13371 5-10-50 J. A. Balmans; Lake Tahoe; Domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13372 5-10-50 C. R. Moorman and Milo W. Smith; Illipah Creek; Irrigation; Approved September 25, 1950. G. S.

13373 5-11-50 Frank A. and Anna Sagstetter and Mary A. Olson; Underground; Quasi-municipal and domestic; Approved August 28, 1950. G. S.

13374 5-12-50 Emma G. and H. E. Rogers; Underground; Stockwatering; Approved August 19, 1950. Certificate issued.

13375 5-15-50 Fallini Bros.; Reveille Mill Spring; Stockwatering; Approved November 1, 1950. Certificate issued.

13376 5-15-50 Fallini Bros.; Rose Spring; Approved November 1, 1950. Certificate issued.

13377 5-15-50 Fallini Bros.; Five Mile Spring; Approved November 1, 1950. Certificate issued.

13378 5-16-50 Charles J. Allen; Underground; Irrigation and domestic; Approved March 12, 1952. G. S.

13379 5-16-50 The Glenbrook Co.; Lake Tahoe; Domestic; Approved August 28, 1950. G. S.

13380 5-17-50 C. M. Trimble; Pollard Creek; Irrigation and domestic; Approved March 1, 1951. Certificate issued.

13381 5-23-50 Los Angeles Chemical Co.; Underground; Milling; Cancelled May 9, 1952, because of failure of applicant to comply with the provisions of permit.

13382 5-23-50 Los Angeles Chemical Co.; Underground; Milling; Cancelled May 9, 1952, because of failure of applicant to comply with the provisions of permit.

13384 5-24-50 Donald D. Graham; Underground; Irrigation and domestic; Withdrawn by applicant June 7, 1951.

13385 5-24-50 Mr. and Mrs. L. F. Cochran; Upper Pasture Springs; Irrigation and domestic; Withdrawn by applicant January 5, 1951.

13386 5-25-50 Bonanza Hotel; Underground; Quasi-municipal; Approved August 28, 1950. G. S.

13388 5-26-50 Frank M. Maloney; Clippenger Tunnel; Mining, milling and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13389 5-26-50 Frank M. Maloney; Upper Ford Spring; Mining, milling and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13390 5-26-50 Frank M. Maloney; Summit Spring; Mining, milling and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13391 5-26-50 Frank M. Maloney; Ford Spring; Mining, milling and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

13392 5-29-50 Lawrence O'Toole; Washington Creek; Irrigation and domestic; Approved May 14, 1951. G. S.

13393 5-29-50 Wilbur Clark's Desert Inn; Underground; Quasi-municipal; Approved September 19, 1950. G. S.

13394 5-29-50 Wilbur Clark's Desert Inn; Underground; Quasi-municipal; Approved September 19, 1950. G. S.

13395 5-29-50 Ellison Ranching Co.; Underground; Irrigation and domestic; Approved December 6, 1950. G. S.

12397 5-31-50 Sunrise Hotel Corp.; Underground; Quasi-municipal; Approved September 19, 1950. G. S.

12398 5-31-50 Sunrise Hotel Corp.; Underground; Quasi-municipal; Approved September 19, 1950. G. S.

12399 5-31-50 Sunrise Hotel Corp.; Underground; Quasi-municipal; Approved September 19, 1950. G. S.

12400 6- 2-50 Henry McCleary Timber Co.; Cottonwood Creek and Tributaries; Irrigation and domestic; Denied January 23, 1951.

12402 6- 5-50 S. T. Clarke; Underground; Irrigation and domestic; Approved January 2, 1951. G. S.

12403 6- 5-50 S. T. Clarke; Underground; Irrigation and domestic; Approved January 2, 1951. G. S.

12405 6- 6-50 Monitor Livestock Co.; Willow Creek; Stockwatering; Approved January 12, 1951. G. S.

12406 6- 6-50 Monitor Livestock Co.; Butter Creek; Stockwatering; Approved January 12, 1951. G. S.

12408 6- 6-50 Nevada Gold Dome Mining Co.; Gilman Spring; Mining, milling and domestic; Approved March 14, 1951. G. S.

12410 6- 9-50 Peter Felis and Ed Parker; Natural (Chimney) Spring; Mining; Approved May 1, 1951. G. S.

12411 6- 9-50 A. H. Lage; Becky Springs; Domestic; Approved December 6, 1950. Certificate issued.

12412 6-12-50 Robert B. Griffith; Big Falls Spring; Irrigation and domestic; Approved February 1, 1951. G. S.

12413 6-12-50 Lynn and Anna L. Taylor; Underground; Irrigation and domestic; Approved April 3, 1951. G. S.

12414 6-12-50 James M. Daniels; Underground; Stockwatering; Approved October 22, 1950. Certificate issued.

12415 6-12-50 Frank W. and Lucille Welsh; Truckee River; Irrigation; Approved November 20, 1950. G. S.

12416 6-14-50 Silas Cordes; Blue Jacket Creek; Mining, milling and domestic; Cancelled January 18, 1951, because of failure to refile corrected application within statutory time.

12417 6-14-50 L. H. Linde; Lake Tahoe; Domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

12418 6-14-50 Ed, Jack and Robert E. Candee; Deadman Gulch; Fish and domestic; Cancelled June 11, 1951, because of failure to refile corrected application within statutory time.

12421 6-19-50 Garrett W. Beckley; Bilk Creek; Irrigation and domestic; Approved April 3, 1951. G. S.

12422 6-19-50 Garrett W. Beckley; Warm Springs; Irrigation and domestic; Approved April 23, 1951. G. S.

12423 6-19-50 Cannon Gardner; Gardner Spring; Stockwatering and domestic; Approved December 15, 1950. Certificate issued.

12424 6-19-50 Las Vegas Valley Water District; Lake Mead and the Colorado River; Municipal; Approved January 31, 1951. G. S.

12425 6-19-50 Irwin E. Smith; Underground; Irrigation and domestic; Approved September 17, 1951. G. S.

12426 6-26-50 C. B. Moorman, Milo Smith, Jess Gardner, W. C. Goodman, Walter and Joe Roesener, and Nevin Munson; Illipah Creek; Stockwatering; Approved April 3, 1951. Certificate issued.

12427 6-26-50 Dan Filippini; Underground; Irrigation; Approved April 13, 1951. G. S.

12428 6-26-50 Marvin A. Mosley; Spring; Irrigation; Approved December 13, 1950. G. S.

12429 6-26-50 Josie Cremetti, et al; East Walker River; Irrigation; Approved November 20, 1950. G. S.

12430 6-29-50 Reorganized Silver King Divide Mining Co.; Underground; Mining and domestic; Denied November 21, 1951.

12431 6-30-50 Bernard Klassen and Merle S. Peek; Underground; Irrigation and domestic; Approved December 11, 1950. G. S.

APPENDIX 5

Certificates Issued Under Permits, 1950–1952

Following is a condensed statement giving the salient data in connection with certificates issued under permits during the biennium for the period July 1, 1950, to June 30, 1952, in order of:

1. Certificate number.
2. Book number.
3. Permit number.
4. Name of appropriator.
5. Source of water supply.
6. Purpose of appropriation.
7. Amount of water in cubic feet per second, unless otherwise noted.
8. Date of certificate issued.

3471	11	12045	Steve Brown; Mason Springs; Stockwatering and domestic	0.0015	7-28-50
3472	11	11808	Charles and Elizabeth Hammond; Quail Seeps; Stockwatering and domestic	0.0011	7-28-50
3473	11	11277	W. E. and Ruth A. Saylor; Underground (Las Vegas Artesian Basin); Domestic	0.00446	7-28-50
3474	11	12841	Bunkerville Water Users Association; Seep Spring; Domestic	0.0247	7-28-50
3475	11	12842	Bunkerville Water Users Association; Dud's Spring; Domestic	0.10	7-28-50
3476	11	11621	C. J. and E. M. Lyons; Underground; Irrigation, domestic and fire protection	0.0047	7-28-50
3477	11	12969	Victor A. Johnson; Lake Tahoe; Domestic	0.0003	7-28-50
3478	11	11382	Alma Woods; Underground (Alma Woods' Well No. 1); Stockwatering	0.009	7-28-50
3479	11	12344	Lester M. Farias; Underground (Artesian Well); Stockwatering and domestic	0.02	7-28-50
3480	11	12371	Central Mercantile; Underground (Artesian Well); Domestic	0.0015	7-28-50
3481	11	12374	Bruno Fenili; Underground (Artesian Well); Irrigation and domestic	0.043	7-28-50
3482	11	12064	W. W. Whitaker; Underground (Kelly's Well); Stockwatering	0.01	7-28-50
3483	11	12067	W. W. Whitaker; Underground (Derringer Well); Stockwatering	0.01	7-28-50
3484	11	12139	Roy A. Brown; Underground (Upper Phillips Well No. 2); Stockwatering	0.0125	7-28-50
3485	11	12140	Roy A. Brown; Underground (Lower Phillips Well); Stockwatering	0.0125	7-28-50
3486	11	10328	C. M. and Estella Trimble; Pollard Creek; Irrigation	0.337	7-28-50
3487	11	10327	C. M. and Estella Trimble; Mud Springs; Irrigation and domestic	0.3268	7-28-50
3488	11	12818	August and Sara Wittway; Underground; Domestic and irrigation	0.01	7-28-50
3489	11	11627	E. B. and Margie Grubb; Underground (Las Vegas Artesian Basin); Domestic	0.02	8-15-50
3490	11	11637	Joseph E. and Josephine Metz; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.004	8-15-50
3491	11	11914	E. T. Nollner and F. J. Gesmond; Underground (Las Vegas Artesian Basin); Quasi-municipal	0.064	8-15-50
3492	11	12004	E. T. Nollner; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.1338	8-15-50
3493	11	11962	Gerald D. Musser, Frank G. Snow and Marvin Ray; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.02	8-15-50
3494	11	12444	Constant Vener; Keystone Spring; Stockwatering	0.001	8-15-50
3495	11	12447	Constant Vener; Underground (Pedro Well); Stockwatering	0.002	8-15-50
3496	11	12786	Tyrus R. Cobb; Lake Tahoe; Domestic	0.0004	9- 1-50
3497	11	12116	Samuel H. Edwards; Underground; Domestic	0.0008	9- 1-50

3496	11	12176	Joseph C. Flowers; Lake Tahoe; Domestic	0.0003	9- 1-50
3499	11	11848	Ira Carter; Underground (Las Vegas Artesian Basin); Domestic	0.001	9- 1-50
3500	11	12188	William L. Meikle; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.10	9- 1-50
3501	11	11602	S. H. Manor; Little Willow Spring; Stockwatering	0.002	9- 1-50
3502	11	11604	S. H. Manor; Laundry Spring; Stockwatering	0.002	9- 1-50
3503	11	11878	James O. Greenan; Underground (designated as RVN No. 3); Placer mining and domestic	2.50	9- 1-50
3504	11	12094	Elizabeth W. Cromer Turman; Underground (Orchard Well); Irrigation and domestic	0.25	9- 1-50
3505	11	12095	Elizabeth W. Cromer Turman; Underground (Big Well); Irrigation and domestic	0.50	9- 1-50
3506	11	10424	J. F. and Mary H. Schutz; Holly Lake Creek and its tributaries; Irrigation and domestic	1,100 a.f.	9- 1-50
3507	11	11638	Fort Ruby Ranch, Inc.; North Spring; Stockwatering	0.003	9- 1-50
3508	11	13164	Sage and Sand Motel; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.05	9-21-50
3509	11	13232	Bunkerville Irrigation Company; Virgin River; Irrigation and domestic	896 a.f.	9-21-50
3510	11	11991	Black Bird Gold Mine, Inc.; Underground (Water Tunnel); Domestic and commercial	0.005	9-21-50
3511	11	11992	Elbert B. Edwards; Underground (Elbert B. Edwards Well); Irrigation	0.406	9-21-50
3512	11	11466	Fallini Brothers; Underground (East Side Well); Stockwatering	0.022	9-21-50
3513	11	12037	Constant Vener; Willow Spring; Stockwatering	0.0025	9-21-50
3514	11	12039	Constant Vener; Cave Spring; Stockwatering	0.0025	9-21-50
3515	11	4300	Board of Commissioners for the care of the Indigent Insane of the State of Nevada; Truckee River; Irrigation, stockwatering and domestic	6.83	9-21-50
3516	11	12042	D. W. McCleery; Lake Tahoe; Domestic	0.002	11-17-50
3517	11	12050	Abe P. and Lennox C. Miller; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.08	11-17-50
3518	11	12036	Glen L. Churchill; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.01	11-17-50
3519	11	12218	Rex B. Clark; Underground; Stockwatering	0.014	11-17-50
3520	11	12058	Constant Vener; Mule Shoe Spring; Stockwatering	0.0025	11-17-50
3521	11	12092	Fallini Brothers; Unnamed drainage basin (Carson Pond); Stockwatering	0.031	11-17-50
3522	11	12253	Fallini Brothers; Hot Creek; Stockwatering	0.01	11-17-50
3523	11	12470	R. R. and Barbara Russell; Underground (Russell Well); Irrigation and domestic	0.1914	11-17-50
3524	11	11874	Smith-Petersen & Company; Underground; Industrial washing of sand and gravel	1.5	11-17-50
3525	11	12074	Joe Caurro; Fulton Spring; Stockwatering and domestic	0.0019	11-17-50
3526	11	9518	Ed. Halstead & Bessie B. Shannon; Monte Cristo Spring; Stockwatering	0.014	11-17-50
3527	11	11805	Marion Mahlon Green; Ferguson Spring; Stockwatering and domestic	0.025	11-17-50
3528	11	11186	Henry Filippini; Lula Canyon Creek; Irrigation	0.58	11-17-50
3529	11	12934	Peavine Ranches; Underground (San Antone Pass Well); Stockwatering	0.0156	11-17-50
3530	11	12630	United States of America, Fish and Wildlife Service; Quajinump Spring; Wildlife watering	0.0005	11-28-50
3531	11	12633	United States of America, Fish and Wildlife Service; Canyon Spring; Wildlife watering	0.0001	11-28-50
3532	11	10580	Arthur K. Bourne; McPaul Spring; Irrigation, domestic and fire protection	0.50	11-28-50
3533	11	10581	Arthur K. Bourne; McPaul Creek Springs; Irrigation, domestic and fire protection	0.25	11-28-50
3534	11	11723	Estate of Christian P. Edwards, Deceased; Underground; Irrigation and domestic	0.492	11-28-50
3535	11	12631	United States of America, Fish and Wildlife Service; Indian Canyon; Wildlife watering	0.01	11-28-50

3536	11 11426	Fallini Brothers; Unnamed drainage basin through Antelope Reservoir; Stockwatering and domestic		0.006	11-28-50
3537	11 11807	David M. Aitkin; Underground (Aitkin Well); Irrigation and domestic		0.6134	11-28-50
3538	11 13067	State of Nevada, Department of Highways; Unnamed Spring; Irrigation, domestic and public use		0.020	11-28-50
3539	11 12031	Jack and Virginia Barrett; Underground (Las Vegas Artesian Basin); Irrigation and domestic		0.05	12-19-50
3540	11 13236	E] Cortez Hotel; Underground (Las Vegas Artesian Basin); Refrigeration		0.01	12-19-50
3541	11 11359	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Coyote Hole; Stockwatering		0.003	12-19-50
3542	11 11361	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; North Spring; Stockwatering		0.003	12-19-50
3543	11 11385	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Big Spring; Stockwatering		0.0047	12-19-50
3544	11 11386	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Underground (Cow Camp Well); Stockwatering		0.0047	12-19-50
3545	11 11433	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Horath Spring; Stockwatering		0.0057	12-19-50
3546	11 11434	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Indian Garden Spring; Stockwatering		0.0057	12-19-50
3547	11 11435	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Willow Spring; Stockwatering		0.0057	12-19-50
3548	11 11436	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Birch Spring; Stockwatering		0.0057	12-19-50
3549	11 11687	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Underground; Stockwatering		0.0045	12-19-50
3550	11 11688	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Underground; Stockwatering		0.0045	12-19-50
3551	11 11923	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Coyote Spring; Stockwatering		0.003	12-19-50
3552	11 12417	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Inman Spring; Stockwatering		0.0045	12-19-50
3553	11 12418	E. J. Shirley, S. M. Chiatovich and H. R. Humphrey; Harney Spring; Stockwatering		0.0045	12-19-50
3554	11 12027	Marie Anderson; Brown Station Spring; Stockwatering		0.016	12-19-50
3555	11 9378	Merrill H. and Wenona Gubler; Sheep Creek; Irrigation		0.20	12-19-50
3556	11 11649	Merrill H. Gubler; Sheep Ranch Springs (Sheep Ranch Little Springs and Sheep Ranch Big Springs); Irrigation and domestic		0.314	12-19-50
3557	11 11665	Merrill H. Gubler; Green Springs; Irrigation and domestic		0.192	12-19-50
3558	11 10347	L. P. Leavitt; Underground; Irrigation and domestic		0.058	2- 5-51
3559	11 11719	William L. and Beatrice M. Holm; Underground (Las Vegas Artesian Basin); Irrigation and domestic		0.020	2- 5-51
3560	11 12142	Jerry B. Jacobs; Cottonwood Spring; Irrigation and domestic		0.07	2- 5-51
3561	11 13046	Jack M. and Gladys A. Steele; Underground; Domestic		0.008	2- 5-51
3562	11 10877	James M. Daniels; North Spring; Stockwatering		0.003	2- 5-51
3563	11 11733	James M. Daniels; Emigrant Spring; Stockwatering		0.011	2- 5-51
3564	11 12003	S. H. Manor; Jackson Spring; Stockwatering		0.0034	2- 5-51
3565	11 12004	S. H. Manor; Underground (Garabald) Well); Stockwatering		0.0034	2- 5-51
3566	11 12032	S. H. Manor; Underground (Ethenpian Well); Stockwatering		0.0034	2- 5-51
3567	11 11417	Leonard D. and Melvin A. Robinson doing business under the name of Monitor Livestock Co.; Underground (Monitor Well No. 4); Stockwatering		0.04	2- 5-51
3568	11 6400	Ross and Sara Lea Martin; Underground (2 Artesian Wells); Irrigation and domestic		0.339	2- 5-51
3569	11 6401	Ross and Sara Lea Martin; Underground (2 Artesian Wells); Irrigation and domestic		0.187	2- 5-51
3570	11 11025	Ross and Sara Lea Martin; Underground (An Artesian Well); Irrigation and domestic		1.143	2- 5-51

3571	11	12375	Fallini Bros.; Reveille Mill Spring; Stockwatering	0.032	3- 5-51
3572	11	12376	Fallini Bros., Rose Spring; Stockwatering	0.032	3- 5-51
3573	11	12377	Fallini Bros., Five Mile Spring; Stockwatering	0.032	3- 5-51
3574	11	11519	Flamingo Hotel, Inc.; Underground (Las Vegas Artesian Basin); General hotel supply and domestic	0.20	3- 1-51
3575	11	11520	Flamingo Hotel, Inc.; Underground (Las Vegas Artesian Basin); General hotel supply and domestic	0.20	3- 1-51
3576	11	11579	Flamingo Hotel, Inc.; Underground (Las Vegas Artesian Basin); General hotel supply and domestic	0.20	3- 1-51
3577	11	11626	El Rancho Hotel, Inc.; Underground (Las Vegas Artesian Basin); Quasi-municipal	0.1225	3- 1-51
3578	11	11800	C. L. Henson; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.02	3- 1-51
3579	11	12365	James M. Daniels; Gold Reef Spring; Stockwatering	0.005	3- 1-51
3580	11	12414	James M. Daniels; Underground (Roush Well); Stockwatering	0.008	3- 1-51
3581	11	12562	Gus and Abb Rogers; Unnamed Seeps; Mining, milling and domestic	0.02783	3- 1-51
3582	11	12961	Gus and Abb Rogers; Winnemucca Mt. Spring; Mining, milling and domestic	0.0178	3- 1-51
3583	11	12246	Frank Thorley; Bob Hamilton Spring; Stockwatering	0.0125	3- 1-51
3584	11	11247	Frank Thorley; Rock Corral Spring; Stockwatering	0.0125	3- 1-51
3585	11	11475	Brankshourt Ranch (R. H. Conklin); Underground (Emigrant Well); Stockwatering	0.010	3- 1-51
3586	11	12219	Merril H. Peterson; Chalk Spring; Stockwatering and domestic	0.004	3- 1-51
3587	11	12254	John H. and Ida F. Blandford; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.03	3- 1-51
3588	11	12743	A. M. Crosby, F. M. Crosby and James F. Burke; Underground; Irrigation and domestic	1.53	3- 1-51
3589	11	11820	Robert R. Spencer; Spire Canyon Spring; Stockwatering	0.00625	4- 3-51
3590	11	11821	Robert R. Spencer; Pine Gulch Spring; Stockwatering	0.00625	4- 3-51
3591	11	13269	Clyde H. Stark; Underground (East Dixie Well); Stockwatering	0.0016	4- 3-51
3592	11	10054	William M. Hatherly II., William Walter and Hatherly Ellen; Unnamed Spring; Domestic and fire protection	0.178	4- 3-51
3593	11	11818	Levi H. and Clara Irvin; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.02	4- 3-51
3594	11	11198	E. A. Honrath; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.10	4- 3-51
3595	11	13027	Shirley, Chiatovich and Humphrey; Little Spring; Stockwatering	0.012	4- 3-51
3596	11	12064	A. R. Tobey; Underground; Irrigation	0.7037	4- 3-51
3597	11	13274	Emma G. and H. E. Rogers; Underground (Rogers Well); Stockwatering	0.012	4- 3-51
3598	11	13244	A. F. W. Wemyss; Underground (Artesian Well); Domestic	0.06	4- 3-51
3599	11	4304	City of Lovelock, State of Nevada; Wright's Canyon Creek; Municipal domestic supply	0.50	4- 3-51
3600	11	4305	City of Lovelock, State of Nevada; Wild Horse Creek or East Horse Canyon; Municipal domestic supply	0.25	4- 3-51
3601	11	4307	City of Lovelock, State of Nevada; Pole Creek or Little Rocky Canyon; Municipal domestic supply	0.25	4- 3-51
3602	11	10418	Nevada State Gold Mines Co.; Underground (Badger Shaft); Mining, milling and domestic	0.025	4- 3-51
3603	11	8835	Nevada State Gold Mines Co.; Deep Tunnel; Mining, milling and domestic	0.07125	4- 3-51
3604	11	12097	Carl S. Myers; Old Roman Spring; Stockwatering	0.0016	4- 3-51
3605	11	12098	Carl S. Myers; Battle Ax Spring; Stockwatering	0.0069	4- 3-51
3606	11	12099	Carl S. Myers; Rattlesnake Spring; Stockwatering	0.0006	4- 3-51
3607	11	12123	W. E. Fitzgerald; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.03	4- 3-51

3408	11 6991	Edith V. Butler; Bull Camp Creeks; Irrigation	1.317	4- 3-51	
3409	11 2474	Charles Drake; Soap Creek; Irrigation	0.1639	4- 3-51	
3410	11 12058	Alma Woods; Kelley Creek; Stockwatering	0.01	4- 3-51	
3411	11 11504	Eldred Lemuel Leavitt; Virgin River; Irrigation	350 a.f.	5- 1-51	
3412	11 11824	Laurence L. and Lubertha Warden; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.07	5- 1-51	
3413	11 12247	S. V. Seddon; Underground (3 Wells); Stockwatering and domestic	0.064	5- 1-51	
3414	11 12248	S. V. Seddon; Underground; Stockwatering	0.009	5- 1-51	
3415	11 12540	Fallini Brothers; Underground (Deep Well); Stockwatering	0.032	5- 1-51	
3416	11 12932	Frank A. Brunelli; Underground (2 Wells); Commercial fish hatchery	803 a.f.	5- 1-51	
3417	11 12040	Alma Woods; Willow Creek; Irrigation	0.10	5-23-51	
3418	11 12498	Fallini Bros.; Underground (East Side Well); Stockwatering	0.032	5-23-51	
3419	11 12499	Fallini Bros.; Underground (Fred's Well); Stockwatering	0.002	5-23-51	
3420	11 12500	Fallini Bros.; Buck's Water; Stockwatering	0.032	5-23-51	
3421	11 12501	Fallini Bros.; Pyramid Spring; Stockwatering	0.032	5-23-51	
3422	11 11697	Albert F. Hicks; Crane Canyon Creek and tributaries; Irrigation and domestic	0.153	5-23-51	
3423	11 11109	Directors of the State Orphans' Home of the State of Nevada; Underground Irrigation and domestic	0.2941	5-23-51	
3424	11 11844	Rex B. and Emma J. Clark; Red Spring; Stockwatering	0.007	5-29-51	
3425	11 11910	Rex B. and Emma J. Clark; Willow Spring; Stockwatering	0.032	5-29-51	
3426	11 11911	Rex B. and Emma J. Clark; Sage Hen Spring; Stockwatering	0.0132	5-29-51	
3427	11 11965	Rex B. and Emma J. Clark; Pinchot Spring; Stockwatering	0.00128	5-29-51	
3428	11 11966	Rex B. and Emma J. Clark; Gap Spring; Stockwatering	0.032	5-29-51	
3429	11 12212	Louise M. Kuser; Underground; Domestic	0.004454	5-29-51	
3430	11 11998	Castle Mountain Mining Company; Underground (No. 1 and No. 2 Shafts); Mining and milling	0.02745	5-29-51	
3431	11 11999	Castle Mountain Mining Company; Marshall Canyon Creek; Mining and milling	1.00	5-29-51	
3432	11 12423	Cannon Gardner; Gardner Spring; Stockwatering and domestic	0.003	5-29-51	
3433	11 12559	William M. and Willis A. Evans; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.02	6-11-51	
3434	11 12975	Vern R. and Ralph G. Parman, and George Schadler; Mahogany Creek; Irrigation and domestic	0.15	6-11-51	
3435	11 12976	Vern R. and Ralph G. Parman, and George Schadler; Mahogany Creek; Irrigation and domestic	0.16	6-12-51	
3436	11 12977	Vern R. and Ralph G. Parman, and George Schadler; Mahogany Creek; Irrigation and domestic	0.02	6-12-51	
3437	11 11799	Mato Kunick; Horsehutem Spring; Irrigation and domestic	0.02	6-12-51	
3438	11 13630	A. M. and F. M. Crosby, and James F. Burke; Underground; Irrigation and domestic	1.00	6-13-51	
3439	11 10787	Leo Fahor; Underground; Irrigation and domestic	0.03	6-14-51	
3440	11 12141	Clark County; Underground (Las Vegas Artesian Basin); Quasi-municipal	0.036	6-14-51	
3441	11 12674	L. E. Hopkins; Woods Creek; Irrigation	18.50 a.f.	6-14-51	
3442	11 12287	Dan J. Ronnow; Underground; Irrigation and domestic	1.50	6-14-51	
3443	11 12230	Louis Damonte; Truckee River; Irrigation, stockwatering and domestic	0.75	7-12-51	
3444	11 12231	Louis Damonte; Truckee River; Irrigation, stockwatering and domestic	41.62 a.f.	7-12-51	
3445	11 12234	Louis and Louise Damonte; Truckee River; Irrigation, stockwatering and domestic	66.40 a.f.	7-12-51	
3446	11 12235	Louis and Louise Damonte; Truckee River; Irrigation, stockwatering and domestic	144 a.f.	7-12-51	
3447	11 12236	Louis and Louise Damonte; Truckee River; Irrigation, stockwatering and domestic	161.07 a.f.	7-12-51	
3448	11 12237	Louis and Louise Damonte; Truckee River; Irrigation, stockwatering and domestic	43.90 a.f.	7-12-51	
3449	11 12238	Louis and Louise Damonte; Truckee River; Irrigation, stockwatering and domestic	288 a.f.	7-12-51	

3630	11 12494	Louis and Louise Damonte; Truckee River; Irrigation, stockwatering and domestic	20.8 a.f.	7-12-51
3631	11 11340	George W. and Inez B. Rittenhouse; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.055	7-12-51
3632	11 11594	Oly T. Edgell; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.045	7-12-51
3633	11 12246	J. R. Berns; Underground; Domestic	0.00445	7-12-51
3634	11 12492	Wayne and Cannon Gardner; Underground; Irrigation	1.50	7-13-51
3635	11 12504	Henry K. Saxai; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.10	7-13-51
3636	11 12516	J. H. Gates, E. J. Kearns, Lewis E. Walton, Grace Hayes and Bill Doches; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.065	7-13-51
3637	11 12332	Mrs. Bertha Menzi; Underground (Well No. 2); Irrigation and domestic	0.055	7-13-51
3638	11 12333	Mrs. Bertha Menzi; Underground (Well No. 3); Irrigation, domestic and recreation	0.074	7-13-51
3639	11 12541	Pallini Bros.; Summer Spring; Stockwatering	0.02	7-13-51
3640	11 12542	Pallini Bros.; Cedar Spring; Stockwatering	0.025	7-13-51
3641	11 11631	Wm. M. Stead; Wilcox Spring; Irrigation and domestic	271 a.f.	7-19-51
3642	11 11632	Wm. M. Stead; Hay Canyon Creek; Irrigation and domestic	231 a.f.	7-19-51
3643	11 11633	James E. Stead; Aspen Creek; Irrigation and domestic	327 a.f.	7-19-51
3644	11 11634	James E. Stead; Twin Springs Creek; Irrigation and domestic	360 a.f.	7-19-51
3645	11 11725	A. J. Boyan; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.02	7-19-51
3646	11 12228	Frank W. and L. T. Bledsoe, Paul F. and Maria C. Kervella, and Rose B. and Ora O. Stine; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.05	7-19-51
3647	11 12572	Annie Fulstone; Underground (Artesian Well); Irrigation	0.22	7-19-51
3648	11 10648	Henry Filippini; Addington Springs; Irrigation and domestic	0.20	7-24-51
3649	11 12236	Armando A. Francisco; Underground; Stockwatering	0.00625	7-24-51
3650	11 12290	James H. Davis; Docking Corrals Springs; Stockwatering and domestic	0.015	7-24-51
3651	11 12291	James H. Davis and W. B. McKnight; Wagon Tire Springs; Stockwatering and domestic	0.015	7-24-51
3652	11 12292	James H. Davis and W. B. McKnight; Davis Spring; Stockwatering and domestic	0.015	7-24-51
3653	11 10025	B. A. and Agnes M. Johnson; Underground; Irrigation and domestic	0.46	7-24-51
3654	11 12250	U. C. Land & Cattle Co.; Underground (Hot Water Well No. 1); Stockwatering and domestic	0.02	7-24-51
3655	11 12251	U. C. Land & Cattle Co.; Underground (Hot Water Well No. 2); Stockwatering and domestic	0.02	7-24-51
3656	11 12252	U. C. Land & Cattle Co.; Underground (Cold Water Well No. 3); Stockwatering and domestic	0.02	7-24-51
3657	11 12253	U. C. Land & Cattle Co.; Underground (Cold Water Well No. 4); Stockwatering and domestic	0.02	7-24-51
3658	11 12304	G. C. Smith; Underground (Artesian Well); Stockwatering and domestic	0.0047	7-24-51
3659	11 12305	G. C. Smith; Underground (Artesian Well); Stockwatering and domestic	0.0047	7-24-51
3660	11 12113	James O. Gresham; Willow Creek; Placer mining and domestic	1.0	8- 7-51
3661	11 12243	W. J. Ford; Underground; Domestic	0.0015	8-15-51
3662	11 11442	City of Wells; Underground (Well No. 5); Municipal	1.00	9- 7-51
3663	11 12188	Carl F. Johnson; Lake Tahoe; Domestic	0.001	9- 7-51
3664	11 12198	Henry Seeman; Waste water from the Gardnerville-Minden Sewage Disposal Plant; Irrigation	0.50	9- 7-51
3665	11 12145	R. E. and Vesta McCulley; Martinson Spring No. 1; Stockwatering and domestic	0.005	9- 7-51
3666	11 12149	R. E. and Vesta McCulley; Martinson Spring No. 2; Stockwatering and domestic	0.0016	9- 7-51
3667	11 12376	R. H. Conklin; Underground (Well No. 1); Irrigation and domestic	1.45	9- 7-51

3688	11 13137	R. H. Conklin; Underground (Well No. 2); Irrigation and domestic	2.79	9- 7-51
3689	11 13578	R. H. Conklin; Underground (Well No. 3); Irrigation and domestic	**1.94**	**9- 7-51**
3690	11 13179	R. H. Conklin; Underground (Well No. 4); Irrigation and domestic	1.89	9- 7-51
3691	11 12230	The U. C. Land & Cattle Co.; Underground (Well No. 5); Stockwatering	0.08	9-24-51
3692	11 12231	The U. C. Land & Cattle Co.; Underground (Well No. 5); Irrigation and domestic	1.33631	9-24-51
3693	11 12232	The U. C. Land & Cattle Co.; Underground (Well No. 6); Irrigation and domestic	2.40625	9-24-51
3694	11 12233	The U. C. Land & Cattle Co.; Underground (Well No. 6); Stockwatering	0.08	9-24-51
3695	11 10701	G. C. Parise, Trustee; Trout Creek and Tributaries; Mining, milling and domestic	0.05	9-24-51
3696	11 13539	Pallini Bros.; Underground (Rays Well); Stockwatering	0.032	9-24-51
3697	11 13328	John) Winters; Underground (North Carson Hill Well); Stockwatering	0.006	9-24-51
3698	11 12928	Town of Minden; Underground (Minden Well No. 2); Municipal and domestic	2.60	9-24-51
3699	11 12807	Roland J. Giroux; Underground; Irrigation and domestic	0.25	9-24-51
3700	11 12488	Arthur E. Gray and Agnes Leinsteiner; Hot Springs; Irrigation, bathing and domestic	1.00	9-24-51
3701	11 12489	Arthur E. Gray and Agnes Leinsteiner; Underground (Amargosa Tunnel); Irrigation and domestic	0.22	9-24-51
3702	11 12447	Minerva Schoelite Mining Co.; Underground; Mining, milling and domestic	0.10	9-24-51
3703	11 12475	Lewis E. and Mabel June Ball; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.02	9-24-51
3704	11 12476	John Benard and Ruth Wentz; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.03	9-24-51
3705	11 13052	William J. McCue; Underground (Wells Nos. 1 and 2); Irrigation and domestic	0.0044	9-24-51
3706	11 11581	John G. and James R. Murdock; Kelley Creek; Irrigation and domestic	1.1503	10-30-51
3707	11 11919	Denail D. McKinney; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.077	10-30-51
3708	11 12628	Desert Milling Co.; Underground (Incline Shaft on Santa Fe Mining Claim); Milling and domestic	0.05	10-30-51
3709	11 12608	Rex B. Clark; Trail Creek; Stockwatering	0.0025	10-30-51
3710	11 12913	Rex B. Clark; Jachass Spring; Stockwatering	0.016	10-30-51
3711	11 12985	Rex B. Clark; Underground (Kellogg Well); Stockwatering	0.05	10-30-51
3712	11 13448	Rex B. Clark; Underground; Stockwatering	0.024	10-30-51
3713	11 11045	Mrs. Jeanne Saval; Miller or Spring Creek; Irrigation	0.30	10-30-51
3714	11 11942	Fred H. Callihan, Jr.; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.25	10-30-51
3715	11 12079	Wm. Fred and Hattie G. Moon; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.02	10-30-51
3716	11 11839	The United States of America, Fish and Wildlife Service; Rye Patch Spring; Watering of Wildlife	0.001	10-30-51
3717	11 12890	Tony Bruno; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.17	10-30-51
3718	11 12703	O. H. Nelson; Underground (Las Vegas Artesian Basin); Industrial (Washing sand and gravel)	0.22	10-30-51
3719	11 11582	Caliente Public Utilities; Underground (Well No. 4); domestic	1.50	10-30-51
3720	11 11581	Caliente Public Utilities; Underground (Well No. 5); domestic	0.60	10-30-51
3721	11 12380	C. M. Trimble; Pollard Creek; Irrigation and domestic	0.04	10-30-51
3722	11 12709	J. K. Barton; Indian Spring; Stockwatering and domestic	0.0156	10-30-51
3723	11 9042	Fernando Segura; Coal Burner Spring; Stockwatering and domestic	0.005	11-16-51
3724	11 12026	H. F. Dangberg Land & Livestock Co.; Underground; Irrigation	6.00	11-16-51
3725	11 12275	F. M. Pulstone, Inc.; Underground; Irrigation and domestic	0.50	11-16-51
3726	11 12276	F. M. Pulstone, Inc.; Underground; Irrigation and domestic	0.20	11-16-51

2727	11	12277	F. M. Fulstone, Inc.; Underground; Irrigation and domestic	0.89	11-16-51
2728	11	12068	F. M. Fulstone, Inc.; Lower Mud Spring; Stockwatering	0.007	11-16-51
2729	11	11194	Donald E. and Dorothy M. Beard; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.03	12- 5-51
2730	11	11710	Ethyle A. Harrison; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.07	12- 5-51
2731	11	12543	Emil Baumann; Underground (Well No. 1); Stockwatering	0.016	12- 5-51
2732	11	12544	Emil Baumann; Underground (Well No. 2); Stockwatering	0.019	12- 5-51
2733	11	12493	Ernest H. Gubler; Underground; Irrigation	2.00	12- 5-51
2734	11	10854	Rex B. Clark; Trail Creek; Mining and domestic	0.111	12- 5-51
2735	13	11209	Harry F. and Leona M. Munkers; Underground (Las Vegas Artesian Basin); Domestic and irrigation	0.03	1-21-52
2736	11	11783	C. F. Gartside; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.01	1-21-52
2737	11	11841	Mike Leatherwood; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.025	1-21-52
2738	11	12679	G. M. and Shirley Perkins; Underground; and domestic	1.00	1-21-52
2739	11	12778	Wm. A. and Theodate Shiner; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.03	1-21-52
2740	11	11889	Dan Filippini; Sod-House Creek; Irrigation	1.20	1-21-52
2741	11	12667	Alma Woods; Reynolds Creek; Stockwatering	0.01	1-21-52
2742	11	12718	F. M. and L. E. Schmidtlein; Underground; Stockwatering	0.016	1-21-52
2743	11	12772	F. M. and L. E. Schmidtlein; Underground (Schmidtlein Well); Stockwatering	0.03	1-21-52
2744	11	11724	Lory M. or Myrtle Joy Free; Underground; Irrigation	1.61	1-21-52
2745	11	9384	Harvey L. Titus and M. E. Locke; Pritchard Canyon and Tributaries; Irrigation and domestic	1.00	1-21-52
2746	11	12284	Merrill H. Peterson; Ash Tree Spring; Stockwatering	0.0025	1-21-52
2747	11	12662	C. A. Blair; Bullwhacker Spring; Stockwatering	0.0015	1-21-52
2748	11	12663	C. A. Blair; Little Cow Canyon Spring; Stockwatering	0.0015	1-21-52
2749	11	12664	C. A. Blair; Meadow Spring; Stockwatering	0.0015	1-21-52
2750	11	12729	H. G. and Beulah A. Sayler; Underground (Sayler Well); Stockwatering	0.01	1-21-52
2751	11	12768	Round Mountain Gold Dredging Corp.; Underground (Norris Well); Mining, milling and domestic	2.00	1-21-52
2752	11	11496	Central Pacific Railway Co.; Underground (S. P. Well No. 2); Domestic and railroad purposes	0.015	Amended 2- 7-52
2753	11	12169	Central Pacific Railway Co.; Underground (S. P. Well No. 3); Railroad	0.231	1-21-52
2754	11	12445	Mary E. Kessler; Underground; Domestic	0.03	1-21-52
2755	11	12659	J. B. Stanfield; Underground; Domestic	0.005	1-21-52
2756	11	12424	C. B. Moorman, Milo Smith, Jesse Gardner, W. C. Goodman, Walter and Joe Rosevear, and Nevin Munsen; Illipah Creek; Stockwatering	0.063	1-21-52
2757	11	12384	C. B. Moorman, Milo Smith, Jesse Gardner, W. C. Goodman, Walter and Joe Rosevear, and Nevin Munsen; Illipah Creek; Stockwatering	0.062	1-21-52
2758	11	11734	Olive Craig; Underground (Las Vegas Artesian Basin); Irrigation and domestic	0.43	2- 7-52
2759	11	12678	Dorcas Barney Nichols; Underground (Las Vegas Artesian Basin); Domestic	0.01	2- 7-52
2760	11	12764	United States Air Force; Underground (Well No. 416 or Well No. 1) Las Vegas Artesian Basin; Quasi-municipal	0.46	2- 7-52
2761	11	12765	United States Air Force; Underground (Well No. 314 or Well No. 2) Las Vegas Artesian Basin; Quasi-municipal	0.60	2- 7-52
2762	11	12766	United States Air Force; Underground (Well No. 417 or Well No. 3) Las Vegas Artesian Basin; Quasi-municipal	0.46	2- 7-52
2763	11	12767	United States Air Force; Underground (Well No. 418 or Well No. 4) Las Vegas Artesian Basin; Quasi-municipal	0.50	2- 7-52

3764	11	12970	Virgil W. and Vivian S. Birdsell; Underground (Open pit); Irrigation and domestic	0.135	3- 7-52
3765	11	10878	Waldo Bozarth and Oscar Rudnick; Coyote Hole; Stockwatering	0.002	3- 7-52
3766	11	10880	Waldo Bozarth and Oscar Rudnick; Unnamed seeps (near Cow camp); Stockwatering	0.002	3- 7-52
3767	11	11485	Waldo Bozarth and Oscar Rudnick; Underground (Labeau Well); Stockwatering	0.015	3- 7-52
3768	11	11725	Waldo Bozarth and Oscar Rudnick; Minnesota Spring; Stockwatering	0.015	3- 7-52
3769	11	12364	James M. Daniels; Underground (Anderson Well); Stockwatering	0.01	3- 7-52
3770	11	11676	E. S. and Elizabeth Bowman, and Linford O. and Imogene Anderson; Underground (Dual Six Mile Spring); Stockwatering	0.0009	3- 7-52
3771	11	11677	E. S. and Elizabeth Bowman, and Linford O. and Imogene Anderson; Underground (Windmill Well); Stockwatering	0.003125	3- 7-52
3772	11	11678	E. S. and Elizabeth Bowman, and Linford O. and Imogene Anderson; Underground (Cottonwood Tree Spring); Stockwatering	0.003125	3- 7-52
3773	11	12362	James M. Daniels; Stonewall Spring; Stockwatering	0.01	3- 7-52
3774	11	12522	Lloyd Sweeney; Underground; Irrigation and domestic	1.10	3- 7-52
3775	11	12178	The Roman Catholic Bishop of Reno, and his successors, a corporation sole; Underground; Irrigation and domestic	0.134	3- 7-52
3776	11	11943	Gordon G. and Beatrice S. Hair; Underground (Artesian Well); Irrigation and domestic	0.116	3- 8-52
3777	11	12564	Rose Shapiro; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.016	3- 8-52
3778	11	9858	Pine Forest Land & Livestock Co.; Leonard Creek and Tributaries; Irrigation	13.00	3- 8-52
3779	11	13437	Fallini Bros.; Underground (Joe's Well); Stockwatering	0.032	3- 8-52
3780	11	11964	D. V. Romeon; Billy Goat Spring; Stockwatering	0.007	3- 8-52
3781	11	13217	D. V. Romeon; Kid Spring; Stockwatering	0.00625	3- 8-52
3782	11	13218	D. V. Romeon; Sheep Spring; Stockwatering	0.00625	3- 8-52
3783	11	11781	John F. and Dorothy Ames; Underground (Las Vegas Artesian Basin); Quasi-municipal and domestic	0.00031	4- 9-52
3784	11	12023	Howard B. Cahoon; Underground (Las Vegas Artesian Basin); Domestic	0.02	4- 9-52
3785	11	12519	U. S. Fish & Wildlife; Yellow Jacket Spring; Stock and wildlife	0.0001	4- 9-52
3786	11	13520	U. S. Fish & Wildlife; Sand Spring; Stock and wildlife	0.000064	4- 9-52
3787	11	13521	U. S. Fish & Wildlife; Tim Spring; Stock and wildlife	0.00056	4- 9-52
3788	11	6057	St. John Laberde; Red Spring Creek; Irrigation	0.075	4- 9-52
3789	11	6941	St. John Laberde; Indian Creek and Springs; Stockwatering	0.0156	4- 9-52
3790	11	12249	Lester C. Mathews; Underground; Irrigation	0.50	4- 9-52
3791	11	12632	U. S. Fish & Wildlife; Grapevine Spring; Wildlife	0.0033	4- 9-52
3792	11	4432	Harvey L. Titus and M. E. Locke; Prichard Canyon; Stockwatering	0.015	4- 9-52
3793	11	13147	Merrill H. Peterson; Last Chance Spring; Stockwatering	0.0028	4- 9-52
3794	11	13411	August H. Lage; Becky Springs; Domestic	0.05	4- 9-52
3795	11	12036	James E. and Virginia A. Brandon; Underground; Irrigation and domestic	0.009	4-15-52
3796	11	12152	T. A. McCall; White Mound Springs; Stockwatering and domestic	0.0015	4-25-52
3797	11	11860	E. W., E. A. and Joe B. Fallini (Fallini Bros.); Underground; Stockwatering	0.032	4-24-52
3798	11	13035	Weld Arnold; Underground; Irrigation and domestic	0.074	4-24-52
3799	11	13872	Harry Richman; Rust Spring; Stockwatering and domestic	0.0031	4-24-52
3800	11	13873	Harry Richman; Tank Spring; Stockwatering and domestic	0.0031	4-24-52
3801	13	13502	The Union Ice Co. of Nevada; Underground; Domestic and commercial	0.1667	4-24-52
3802	13	13530	U. S. of America, Forest Service; Allen Spring; Stockwatering	0.0001	4-24-52

APPENDIX 6

Office Finances

STATE ENGINEER'S FUND

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952

Balance July 1, 1950	$9,658.10	
Receipts July 1, 1950, to June 30, 1952	46,947.13	
Disbursements July 1, 1950, to June 30, 1952		$43,830.56
Balance July 1, 1952		12,885.17
Amount of outstanding checks bearing stale date taken back into account	169.50	
	$56,724.73	$56,724.73

CASH RECONCILEMENT

Balance, Carson Branch, July 1, 1952	$12,311.02
Less outstanding checks	1,925.85
	$10,385.17
Revolving Fund	2,500.00
Balance July 1, 1952	$12,885.17

STATEMENT OF FEES COLLECTED BY STATE ENGINEER FROM JULY 1, 1950, TO JUNE 30, 1952

Month and year	Total fees received	Proofs of appropriation	Application publications	State fees	Recording permits	Proofs of commencement	Proofs of completion	Proofs of beneficial use	Protests	Clerical	Blue prints	Excess collections	Advance for collection
1950													
July	$1,891.40	$10.00	$290.00	$276.00	$263.25	$20.10	$29.00	$18.00	$110.00	$431.00	$54.85	$1.00	$8.00
August	1,688.35		240.00	170.00	195.15	18.00	21.00	18.00	260.00	288.00	59.00	22.00	17.00
September	2,815.75	140.00	600.00	490.00	246.77	13.00	20.00	28.00	50.00	287.00		15.00	16.00
October	1,981.11		285.00	195.00	288.00	18.00	10.00	8.00		317.00	14.11	1.00	8.00
November	1,954.00		375.00	265.00	20.00	23.00	27.00	14.00	60.00	283.00	15.00	10.00	6.00
December	1,857.45		525.00	255.00	114.85	18.00	5.00	5.00	270.00	218.00	20.00		27.00
Totals	$9,522.68	$150.00	$2,415.00	$1,745.00	$1,726.40	$111.10	$112.00	$90.00	$1,050.00	$1,813.00	$162.96	$54.00	$82.00
1951													
January	$2,617.10		$170.00	$285.00	$1,155.10	$21.00	$25.00	$12.00	$194.00	$244.00	$2.00	$11.00	$3.00
February	1,745.40	$20.00	420.00	290.00	469.80	10.00	11.00	7.00	76.00	215.00	164.80	12.00	25.00
March	1,488.65	80.00	285.00	190.00	274.25	8.00	5.00	8.00	50.00	262.00	14.40	1.00	3.00
April	1,579.59	10.00	315.00	215.00	468.50	11.00	25.00	15.00	60.00	267.00	77.28	1.00	10.00
May	2,058.45		420.00	285.00	369.45	21.00	24.00	22.00	96.00	371.00	42.00	3.00	18.00
June	1,747.62		300.00	200.00	424.22	42.00	21.00	15.00	50.00	189.00	31.28	24.00	20.00
Totals	$13,247.01	$110.00	$2,580.00	$1,745.00	$3,402.13	$114.00	$126.00	$110.00	$526.00	$2,097.00	$281.88	$45.00	$93.00
July	$1,801.70		$465.00	$315.00	$209.70	$41.00	$19.00	$9.00	$96.00	$317.00	$3.00	$10.00	$22.00
August	1,777.65		495.00	335.00	227.00	15.00	15.00	17.00	150.00	268.00	52.65	18.00	6.00
September	1,690.25		465.00	315.00	287.00	10.00	5.00	5.00	80.00	261.00	115.25	29.00	18.00
October	1,857.55		480.00	320.00	243.45	16.00	21.00	20.00	180.00	278.00	48.50	18.50	14.00
November	1,754.00		570.00	385.00	188.00	23.00	27.00	12.00	50.00	401.10	28.90	23.00	15.00
December	1,602.10		510.00	345.00	102.00	8.00	3.00	11.00	40.00	349.00	42.10		18.00
Totals	$10,962.25		$2,985.00	$2,015.00	$1,456.15	$113.00	$90.00	$74.00	$596.00	$2,068.10	$292.40	$98.50	$93.00
1952													
January	$2,148.45		$960.00	$650.00	$208.00	$18.00	$20.00	$2.00	$30.00	$195.00	$43.45	$1.00	$15.00
February	2,182.18		1,020.00	695.00	255.04	14.00	14.00	11.00	60.00	412.00	80.12	6.00	11.00
March	2,601.85		1,170.00	805.00	178.25	8.00	6.00	12.00	110.00	256.00	52.80	1.00	11.00
April	4,234.28		1,620.00	1,085.00	300.18	17.00	2.00	18.00	80.00	288.00	63.50	22.00	6.00
May	1,870.40		660.00	440.00	61.00	18.00	7.00	8.00	150.00	432.00	59.40	1.00	2.00
June	2,797.85	$20.00	1,065.00	710.00	296.85	24.00	23.00	42.00	.....	524.00	77.20	.....	3.00
Totals	$14,114.21	$20.00	$6,495.00	$4,385.00	$1,833.34	$102.00	$85.00	$98.00	$440.00	$2,384.40	$374.47	$31.00	$47.00
Grand totals	46,947.12	280.00	14,490.00	9,910.00	8,618.12	443.10	403.00	372.00	2,590.00	8,137.50	1,321.81	242.50	315.00

STATEMENT OF DISBURSEMENTS FROM STATE ENGINEER'S FUND FROM JULY 1, 1950, TO JUNE 30, 1952

Month and year	Total disbursements	Publications	Refunds	Record certificates	Blue prints	Deposited with State Treasurer
1950						
July	$2,426.04	$627.50	$292.50		$52.69	$1,452.35
August	1,437.55	225.00	20.00	$25.00		1,167.55
September	1,502.35	252.50	5.00	20.00		1,224.75
October	1,334.00	525.00	80.00			729.00
November	1,022.00	225.00	105.00	14.00		678.00
December	2,371.00	915.00	20.00	9.00	31.15	1,395.85
Totals	$10,092.94	$2,770.00	$522.50	$68.00	$83.84	$6,637.50
1951						
January	$2,612.10	$480.00	$61.00	$19.00		$2,052.10
February	1,745.80	465.00	92.00	16.00		1,172.80
March	1,574.81	375.00	21.00	15.00	$41.54	1,112.25
April	1,596.25	240.00	91.00	22.00	74.95	1,166.30
May	1,962.29	525.00	15.00	22.00	97.94	1,302.45
June	2,021.23	315.00	364.00	10.00		1,332.23
Totals	$11,512.58	$2,400.00	$654.00	$104.00	$216.45	$8,138.13
July	$1,742.70	$480.00	$125.00	$27.00		$1,100.70
August	1,607.15	165.00	202.00	2.00	$32.15	1,205.00
September	2,029.50	855.00	87.50	24.00		1,063.00
October	1,563.55	180.00	94.00			1,289.55
November	1,540.10	255.00	176.00	22.00		1,086.10
December	1,378.59	225.00	235.00	6.00	92.59	820.00
Totals	$9,861.59	$2,160.00	$920.50	$92.00	$124.74	$6,564.35
1952						
January	$1,792.00	$375.00	$241.00	$22.00		$1,153.00
February	1,965.06	465.00	21.00	18.00		1,465.06
March	1,940.41	495.00	45.00	8.00	$26.36	1,366.85
April	2,905.78	375.00	91.00	14.00		2,425.78
May	1,540.00	255.00	165.00		33.00	1,107.00
June	2,225.30	435.00	98.00	6.00	56.45	1,629.85
Totals	$12,372.55	$2,400.00	$661.00	$69.00	$95.81	$9,148.74
Grand totals	42,839.56	9,730.00	2,768.00	333.00	520.84	30,486.72

STATE ENGINEER'S APPROPRIATION

Statement of Receipts and Disbursements July 1, 1950, to June 30, 1952, Inclusive

	Statutory salaries	Compensation	Travel	Operating expense	Equipment	Total	Receipts
1950							
July	$1,283.32	$1,416.64	$86.22	$117.86		$3,104.04	$39,932.99
August	1,283.32	1,742.51	210.49	203.17		3,439.49	*12.96
September	1,283.32	1,863.33	235.88	177.24	$203.99	3,603.72	†1,830.00
October	1,283.32	1,416.64	140.63	114.39		3,154.97	
November	1,283.32	1,416.64	179.25	69.97	7.45	3,156.63	
December	1,283.32	1,416.64	121.56	244.70	91.76	3,557.98	*22.78
Totals	$7,699.92	$9,472.40	$1,274.19	$927.32	$342.20	$20,017.03	$41,749.69
Less disbursements							20,017.03
Balance January 1, 1951							$21,732.66
1951							
January	$1,283.32	$1,586.64	$81.48	$62.20	$106.50	$3,101.24	
February	1,283.32	1,724.97	102.75	198.15		3,309.19	*4.00
March	1,283.32	1,941.10	65.24	217.98	1.02	3,508.96	
April	1,283.32	1,988.30	266.73	130.19	5.70	3,479.24	*4.00
May	1,283.32	1,933.30	109.24	61.20		3,387.26	
June	1,144.44	2,684.97	334.25	248.49	230.91	4,623.06	
Totals	$7,561.04	$11,844.48	$929.89	$919.41	$344.13	$21,608.95	$22,760.66
Less disbursements							21,608.95
Reverted July 1, 1951							$151.71
1952							
Balance July 1, 1951							$51,500.00
July		$2,969.96	$113.68	$230.06		$3,313.70	
August		2,969.96	208.01	588.07	$1,136.64	4,970.68	
September		2,652.14	279.07	208.47	137.44	4,277.12	*14.00
October		2,199.12	314.44	706.61	27.00	4,217.14	
November		2,969.96	451.43	474.03	247.82	4,143.24	
December		2,969.96	439.31	325.49	200.00	3,934.76	†7,020.00
Totals		$18,733.10	$1,877.96	$2,532.73	$1,748.90	$24,890.69	$98,524.00
Less disbursements							24,890.69
Balance January 1, 1952							$73,641.31
1952							
January		$2,969.96	$110.04	$690.14	$2.50	$3,772.64	
February		2,217.45	98.57	241.67	34.25	3,591.94	
March		3,006.02	220.85	545.98		3,783.45	

April		3,006.62	80.18	1,221.49	244.27	4,652.46	
May		3,006.62	198.76	299.54	1,074.38	4,579.30	
June		3,054.77	229.04	270.95	192.10	3,748.82	*19.14
Totals		$18,262.04	$947.43	$2,372.79	$1,547.40	$24,129.64	$73,682.45
Less disbursements							24,129.64
Balance July 1, 1912							$49,522.81

*Miscellaneous receipts. †Transfers by Controller.

WELL DRILLERS LICENSE FUND

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952

	Supplies	Miscellaneous	Printing	Total	Receipts
Balance July 1, 1950					$534.53
1950					
July	$36.00		$49.15	$139.15	132.00
August		$5.00		5.00	10.00
December					18.00
Totals	$36.00	$5.00	$49.15	$141.15	$534.53
Less disbursements					142.15
Balance January 1, 1951					$412.38
1951					
February					25.00
March					5.00
April		$32.00		$32.00	5.00
May	$4.00		$20.25	24.25	
June		.50		.50	
Totals	$4.00	$32.50	$20.25	$56.75	$448.38
Less disbursements					58.75
Balance July 1, 1951					$389.63
July					249.50
Totals					$639.13
Less disbursements					230.35
Balance July 1, 1952					$408.78

HUMBOLDT WATER DISTRIBUTION DISTRICT

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952

	Disbursements	Receipts
Balance July 1, 1950		$35,241.98
Receipts July 1, 1950, to June 30, 1952		94,314.99
Humboldt River	$49,519.17	
Little Humboldt	7,816.96	
Quinn River	1,853.34	
Salmon River Survey	2,004.76	
Salmon River Distribution	769.33	
Humboldt Survey	4,701.84	
Thousand Springs	1,828.51	
	$68,313.35	$129,576.97
Less disbursements		68,313.35
		$61,261.62
Less transfers to cover delinquent taxes for the 1949 and 1950 budgets		401.93
Balance July 1, 1952		$60,859.69

HUMBOLDT WATER DISTRIBUTION DISTRICT—HUMBOLDT RIVER

Statement of Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	U. S. Geological Survey	Telephone and Telegraph	Supplies	Equipment	Car Expense: Gas, oil	Car Expense: Other
1950								
July	$1,441.25	$18.75	$41.00	$54.20	$25.58	—	$129.72	$187.27
August	1,033.10	—	138.47	4.55	4.16	—	270.75	90.13
September	771.35	16.00	137.50	8.40	15.78	—	264.95	49.75
October	840.05	—	137.50	9.35	1.10	—	113.37	46.24
November	692.50	114.00	297.25	—	14.85	$122.11	51.13	—
December	710.00	46.75	315.25	6.85	18.64	50.22	89.35	25.95
Transferred from Humboldt General	869.88	15.54	735.85	92.32	58.22	98.72	96.31	274.76
Miscellaneous receipts	—	—	—	—	—	115.89	—	—
Totals	$6,358.33	$214.04	$1,817.82	$175.67	$140.33	$88.09	$1,020.93	$674.10
1951								
January	$1,004.80	$14.75	$200.00	$4.45	$81.88	—	$82.22	$5.61
February	860.05	30.75	308.25	7.74	61.30	$115.27	84.97	—
March	780.05	22.00	38.64	14.45	23.35	214.00	80.78	18.95
April	412.50	37.25	—	7.52	60.83	—	89.22	137.18
May	1,415.37	42.50	—	5.10	7.00	15.11	63.41	94.15
June	1,834.65	194.75	—	24.90	1.40	—	179.82	178.28
Transferred from Humboldt General	914.41	78.84	2,325.42	53.69	120.21	918.01	5.00	412.13
Transferred to Thousand Springs	—	—	—	—	—	—	—	263.53
Totals	$7,221.93	$400.84	$2,872.24	$118.86	$355.87	$915.86	$584.92	$483.17
July	$1,890.70	$25.25	—	$8.55	$22.74	$7.77	$279.85	$113.29
August	1,004.42	24.00	—	24.20	55.26	—	415.84	98.86
September	749.98	55.55	—	13.56	14.32	—	85.24	53.87
October	656.70	212.25	—	10.33	8.63	17.25	185.06	18.64
November	719.98	142.75	—	1.79	—	14.14	134.62	8.55
December	749.98	155.00	—	12.85	1.26	6.75	89.92	74.59
Totals	$5,771.26	$614.80	—	$71.28	$102.19	$46.01	$1,190.53	$367.80
Transferred from Humboldt General	1,883.99	.53	$435.00	48.36	98.50	75.48	—	619.40
Totals	$7,655.25	$614.25	$435.00	$119.64	$200.69	$121.49	$1,190.53	$987.20

HUMBOLDT WATER DISTRIBUTION DISTRICT—HUMBOLDT RIVER—*Continued*

	Compensation	Travel	U. S. Geological Survey	Telephone and Telegraph	Supplies	Equipment	Car Expense: Gas, oil	Car Expense: Other
1952								
January	$414.64	$70.15		$25.81	$1.65		$121.07	$42.07
February	416.64	32.00		3.00	24.05	$7.50	28.70	
March	426.64	78.85		20.10		28.51	20.85	
April	1,069.98	52.73		12.10	26.55	187.47	54.93	15.10
May	788.64	41.25		43.80	2.88	11.73	55.78	3.55
June	1,024.99	89.25		48.10		28.97	119.38	156.84
Totals	$4,131.61	$364.23		$152.91	$65.13	$264.18	$400.71	$217.56
Transferred to Thousand Springs								*188.35*
Transferred from Humboldt General	1,563.81	63.81	$2,282.32	94.55	119.33	1,245.79	2.97	264.21
Totals	$5,695.42	$428.04	$2,282.32	$247.44	$204.46	$1,509.97	$403.68	$301.62

	Rent	Retirement	Industrial insurance	Miscellaneous	Advisory Board	Total
1950						
July						$2,118.77
August						1,541.14
September						1,263.93
October						1,147.61
November						1,291.04
December				$149.25	$100.65	1,533.93
Transferred from Humboldt General	$378.00	$261.54	$197.54			2,696.59
Miscellaneous receipts						*175.89*
Totals	$378.00	$261.54	$197.54	$169.25	$100.65	$11,427.22
1951						
January					$152.15	$1,545.36
February				$10.00		1,286.97
March						1,202.24
April						724.51
May						1,642.64
June						2,290.03
Transferred from Humboldt General	$392.75	$217.23	$116.07			5,655.87
Transferred to Thousand Springs						*142.53*
Totals	$392.75	$217.23	$116.07	$10.00	$152.15	$13,953.90

July						$2,347.42
August						1,422.54
September						972.63
October						1,109.98
November					$81.10	1,102.84
December				$5.49	98.80	1,194.64
Totals				$5.49	$179.90	$8,349.26
Transferred from Humboldt General	$182.10	$254.18	$181.20	16.53		1,914.55
Totals	$182.10	$254.18	$181.20	$22.02	$179.90	$12,263.81
1918						
January						$677.41
February						522.91
March						644.97
April						1,418.88
May				$4.25		949.90
June				18.14	$91.85	1,578.12
Totals				$22.39	$91.85	$6,718.07
Transferred to Thousand Springs						286.25
Transferred from Humboldt General	$291.50	$237.98	$27.25	10.37		4,344.00
Totals	$291.50	$237.98	$27.25	$32.76	$91.85	$11,374.32

Note—Italic figures denote transfers.

HUMBOLDT WATER DISTRIBUTION DISTRICT—LITTLE HUMBOLDT

Statement of Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	U. S. Geological Survey	Telephone and Telegraph	Supplies	Equipment	Car Expense: Gas, oil	Car Expense: Other	Rent	Retirement	Industrial insurance	Miscellaneous	Total
1950													
July	$308.75	—	—	$2.55	—	—	$78.37	$66.85	—	—	—	—	$456.52
August	160.00	—	—	8.35	—	—	142.00	82.50	—	—	—	—	394.85
September	138.00	—	—	1.60	—	—	63.47	—	—	—	—	—	202.07
October	50.00	—	—	—	—	—	66.82	—	—	—	—	—	116.82
November	50.00	—	—	—	—	—	14.56	—	—	—	—	—	64.56
December	50.00	—	—	—	—	—	14.64	6.50	—	—	—	—	71.14
Transferred from Humboldt General	112.91	$2.96	$241.31	12.09	$7.62	$11.28	—	68.44	$49.50	$27.53	$20.96	—	555.60
Totals	$878.66	$2.96	$241.31	$25.59	$7.62	$11.28	$378.87	$225.29	$49.50	$27.53	$20.96	—	$1,861.57
1951													
January	$100.00	—	—	—	—	—	$40.35	$1.90	—	—	—	—	$142.45
February	80.00	—	—	—	—	—	12.84	—	—	—	—	—	92.84
March	175.00	$17.25	—	—	—	—	3.44	—	—	—	—	—	195.69
April	225.00	32.00	—	—	—	—	20.18	—	—	—	—	—	277.18
May	238.66	—	—	$9.10	—	$11.25	11.86	12.40	—	—	—	—	282.47
June	422.33	—	—	—	—	—	20.62	58.25	—	—	—	—	503.20
Transferred from Humboldt General	104.50	9.27	—	6.31	$14.15	102.00	—	72.91	$45.00	$50.17	$25.24	$0.75	430.30
Totals	$1,245.49	$58.52	—	$15.41	$14.15	$113.25	$108.69	$145.46	$45.00	$50.17	$25.24	$0.75	$1,922.12
July	$408.88	—	—	$5.35	—	—	$31.63	$81.15	—	—	—	—	$527.01
August	166.66	—	—	—	—	—	72.27	8.10	—	—	—	—	247.03
September	—	—	—	—	—	—	—	9.90	—	—	—	—	9.90
October	128.33	—	—	—	—	—	45.03	2.75	—	—	—	—	176.11
November	45.00	—	—	—	—	—	5.27	—	—	—	—	—	50.27
December	—	—	—	—	—	—	31.93	—	—	—	—	—	31.93
Totals	$748.87	—	—	$5.35	—	—	$186.13	$101.90	—	—	—	—	$1,042.25
Transferred from Humboldt General	242.06	$5.55	$290.00	8.54	$17.38	$11.32	—	109.31	$67.50	$58.97	$20.58	$2.92	924.13
Totals	$1,091.92	$5.55	$290.00	$13.89	$17.38	$11.32	$186.13	$211.21	$67.50	$58.97	$20.58	$2.92	$1,989.38

1932														
January								$2.63						$2.63
February							$5.00	6.80						11.80
March								8.68						8.68
April	$214.64						3.30		$10.00					227.94
May	482.22						54.90		42.92					580.14
June	558.99	$16.60		$3.61				40.63	5.00					623.23
Totals	$1,256.97	$16.60		$3.61		$63.20	$58.72	$55.92						$1,457.62
Transferred from Humboldt General	233.67	9.54		14.13	$20.82	186.15	6.44	39.49	$38.50	$48.55	$12.42	$1.55		625.46
Totals	$1,492.64	$25.54		$17.74	$20.82	$249.35	$59.16	$95.41	$38.50	$48.55	$12.42	$1.55		$2,082.88

HUMBOLDT WATER DISTRIBUTION DISTRICT—QUINN RIVER

Statement of Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Travel	U. S. Geological Survey	Telephone and Telegraph	Car Expense: Gas, oil	Car Expense: Other	Total
1950						
December	$13.00					$13.00
Transferred from Humboldt General		*$1,355.07*				*1,355.07*
Totals	$13.00	$1,355.07				$1,368.07
1951						
February		*$22.50*				*$22.50*
March	$8.00			$4.02		12.02
April	17.25					17.25
May				*3.94*		*3.94*
June				*3.17*		*3.17*
Totals	$25.25	*$22.50*		$11.13		$14.01
August	$16.00		$1.25			$17.25
November				$11.24	$5.00	16.24
Totals	$16.00		$1.25	$11.24	$5.00	$33.49
Transferred from Humboldt General		*$435.00*				*435.00*
Totals	$16.00	$435.00	$1.25	$11.24	$5.00	$468.49
1952						
June				$2.99		$2.99
Totals				$2.99		$2.99

NOTE—Italic figures denote transfers.

HUMBOLDT WATER DISTRIBUTION—HUMBOLDT SURVEY

Statement of Disbursements, July 1, 1950, to June 30, 1951, Inclusive

	Compensation	Travel	Telephone and Telegraph	Supplies	Car Expense: Gas, oil	Car Expense: Other	Retirement	Total
1950								
July	$416.64	$217.20	———	$9.69	$23.41	$18.05	———	$684.97
August	416.64	197.20	———	———	3.89	7.48	———	565.39
September	416.64	225.20	———	———	3.01	95.89	———	740.85
October	416.66	———	$3.61	———	23.69	92.85	———	536.04
November	416.66	184.25	1.06	———	63.73	12.35	———	654.99
December	416.66	———	———	———	17.89	———	———	434.55
Transferred from Humboldt General	———	———	———	———	98.34	———	$125.00	223.34
Totals	$2,499.96	$761.00	$4.67	$9.69	$234.99	$225.74	$125.00	$3,859.04
1951								
January	$416.66	———	———	———	$23.74	$51.05	———	$491.45
February	208.33	———	———	———	———	22.74	———	231.07
March	———	$32.23	$1.50	———	24.67	3.50	———	62.90
April	———	8.25	———	———	8.46	3.50	———	20.21
May	———	———	———	———	22.83	7.89	———	30.72
June	———	———	———	———	15.53	———	———	15.53
Totals	$624.99	$42.50	$1.50	———	$95.23	$98.68	———	$862.90
1921								
July	———	———	———	———	$3.92	———	———	$3.92
December	———	———	———	$7.00	———	———	———	7.00
Totals	———	———	———	$7.00	$3.92	———	———	$10.92

HUMBOLDT WATER DISTRIBUTION DISTRICT—SALMON RIVER DISTRIBUTION

Statement of Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Telephone and Telegraph	Car Expense: Gas, oil	Car Expense: Other	Retirement	Industrial insurance	Total
1950							
August	$272.00	$2.85					$274.85
September	250.00	1.75	$34.87	$7.50			294.22
October	27.50	12.80	93.49	0.95			142.74
November		4.75	4.75				21.50
Transferred from Humboldt General	54.00			78.00	$6.28	$8.64	37.02
Totals	$502.50	$22.15	$133.21	$86.45	$6.28	$8.64	$760.23

HUMBOLDT WATER DISTRIBUTION DISTRICT—SALMON RIVER SURVEY

Statement of Disbursements July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Telephone and Telegraph	Supplies	Car Expense: Gas, oil	Car Expense: Other	Rent	Retirement	Industrial insurance	Total
1950										
July	$295.00		$3.50		$83.51	$20.71				$408.80
August	151.00	$64.50		$2.55	110.89	2.45				334.39
September	142.00	24.00	6.85	2.30	15.02					204.27
October	185.00	80.95			14.90					276.85
November	92.50	34.04	4.45		20.05					154.98
December	25.00	123.60	4.40							153.00
Transferred from Humboldt General	347.78		5.19	2.47		202.00	$22.50	$10.09	$18.76	268.09
Totals	$1,018.28	$311.05	$18.70	$8.32	$238.29	$224.20	$22.50	$10.09	$18.76	$1,880.28
1951										
January	$45.00	$8.00			$4.21					$57.21
February		8.00	$10.00		4.30	$0.50				22.80
March					3.02					3.02
April			0.85							0.85
Totals	$45.00	$16.00	$10.85		$11.52	$0.50				$82.88
1952										
June		$40.50								$40.50
Totals		$40.50								$40.50

HUMBOLDT WATER DISTRIBUTION DISTRICT—THOUSAND SPRINGS DISTRICT

Statement of Disbursements July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Telephone and Telegraph	Supplies	Equipment	Gas, oil	Other	Rent	Retirement	Industrial insurance	Maintenance	Total
1950												
March											$7.00	$7.00
April	$212.50	$16.00			$22.50							251.00
May	250.00					$8.47						258.47
June	116.00	8.00		$6.60	2.50	66.94	$7.44					196.28
Transferred from Humboldt							243.51					243.51
Transferred from Humboldt General	24.13	4.44	$2.15	7.08				$11.25	$24.92	$12.45		100.42
Totals	$402.63	$28.44	$2.15	$7.68	$25.00	$75.41	$250.95	$11.25	$24.92	$12.45	$7.00	$1,276.92
1951												
July	$60.00											$60.00
September		$30.60				$5.74						36.34
Totals	$60.00	$30.60				$5.74						$96.34
1952												
May	$45.00											$45.00
June	30.00											30.00
Totals	$75.00											$75.00
Transferred from Humboldt River							$180.25					180.25
Totals	$75.00						$180.25					$255.25

Note—Italic figures denote transfers.

HUMBOLDT WATER DISTRIBUTION DISTRICT—HUMBOLDT GENERAL

Statement of Disbursements July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	U. S. Geological Survey	Telephone and Telegraph	Supplies	Equipment	Car Expense: Gas, oil	Car Expense: Other
1950								
July	$168.76	$18.50		$30.85	$13.09			$20.70
August	168.76		$1,858.88	20.80	9.42			59.47
September	168.76		242.12	18.70	22.67			242.96
October	168.76			9.85	4.85			41.16
November	274.15			12.10	1.86	$14.56		116.65
December	84.38			16.60	17.42	84.00		41.26
Totals	$1,035.57	$18.50	$2,100.98	$109.90	$69.31	$102.56		$622.20
Transferred July-December (per sheet)	*1,035.57*	*18.50*	*2,100.98*	*109.90*	*69.31*	*102.56*		*622.20*
1951								
January	$168.76			$5.00	$10.41	$26.00		$14.85
February	168.76	$58.25		5.80	12.41	856.00		121.14
March	168.76	34.50		19.00	8.84			73.95
April	168.76		$2,325.43	7.90	54.44	4.96	$5.00	182.45
May	185.00			12.20	20.69	119.11		34.79
June	185.00			12.25	26.72	12.85		57.95
Totals	$1,045.04	$92.75	$2,325.43	$63.13	$141.54	$1,020.01	$5.00	$486.04
Transferred January-June (per sheet)	*1,045.04*	*92.75*	*2,325.43*	*63.13*	*141.54*	*1,020.01*	*5.00*	*486.04*
July	$185.00	$11.75		$19.85	$102.08	$28.00		$5.06
August	185.00			5.00	9.10			
September	138.75	25.25		5.00	3.43			
October	491.66		$548.00	11.99	6.37			126.49
November	643.32			11.05	1.90	2.19		323.28
December	642.32		500.00	5.00		58.21		272.90
Totals	$2,287.05	$37.00	$1,063.00	$56.90	$115.88	$88.80		$726.71
Transferred to Humboldt River	*1,843.89*	*23.35*	*243.00*	*48.36*	*88.58*	*72.48*		*639.48*
Transferred to Little Humboldt River	*242.66*	*4.35*	*298.00*	*8.54*	*17.38*	*13.32*		*169.31*
Transferred to Quinn River			*475.00*					
1952								
January	$643.32	$16.10	$323.32	$21.38	$12.38	$15.25		$27.50
February	414.16	33.25	238.66	12.80	57.25	62.77		25.00
March	185.00	24.00	500.00	12.33	37.58	1,124.50		80.70
April	185.00			12.30	6.33	237.17	$3.61	152.05
May	185.00			18.70	37.80	2.25		
June	185.00		1,210.33	31.25	10.63			18.75
Totals	$1,797.48	$73.35	$2,282.33	$108.68	$160.15	$1,431.94	$3.61	$302.80
Transferred to Humboldt River	*1,562.87*	*63.81*	*2,282.33*	*94.85*	*139.53*	*1,243.79*	*2.97*	*246.31*
Transferred to Little Humboldt River	*232.67*	*9.54*		*14.33*	*20.62*	*186.15*	*0.44*	*39.49*

	Rent	Retirement	Industrial insurance	Miscellaneous	Total
1930					
July	$75.00	$57.56	$120.77		$253.33
August		78.66			78.66
September	150.00	90.24			240.24
October	75.00	78.66	116.13		269.79
November	75.00	78.66			153.66
December	75.00	79.59			154.59
Totals	$450.00	$471.79	$243.90		$1,165.69
Transferred July-December (per sheet)	*450.00*	*471.79*	*243.90*		*1,165.69*
1931					
January	$75.00	$78.13	$90.62	$0.75	$244.50
February	75.00	78.13			153.13
March	75.00				75.00
April	75.00	125.43	74.13		274.56
May	75.00	97.74			172.74
June	75.00	62.72			137.72
Totals	$450.00	$442.15	$164.76	$0.75	$1,057.66
Transferred January-June (per sheet)	*450.00*	*442.15*	*164.76*	*0.75*	*1,057.66*
July	$75.00	$62.52	$95.76		$233.28
August	75.00	62.20			137.20
September		91.52		$18.76	110.28
October	150.00		22.02	0.75	172.77
November	75.00	59.58			134.58
December	75.00	46.61			121.61
Totals	$450.00	$322.43	$117.78	$19.45	$909.72
Transferred to Humboldt River	*382.50*	*274.10*	*100.11*	*16.53*	*773.24*
Transferred to Little Humboldt River	*67.50*	*48.33*	*17.67*	*2.92*	*136.42*
Transferred to Quinn River					
1932					
January	$75.00	$47.61	$19.69	$1.00	$143.30
February	75.00			4.50	79.50
March	75.00	128.20		0.75	203.95
April	75.00	18.08	26.78		119.86
May	75.00	56.45			131.45
June	75.00			2.67	77.67
Totals	$450.00	$250.34	$46.47	$8.92	$755.73
Transferred to Humboldt River	*281.25*	*156.46*	*29.04*	*5.58*	*472.33*
Transferred to Little Humboldt River	*56.25*	*31.29*	*5.81*	*1.12*	*94.47*

Note—Italic figures denote transfers.

MUDDY RIVER

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	U. S. Geological Survey	Other cur expense	Miscellaneous	Total	Receipts
Balance July 1, 1950							$926.76
1950							
August			$466.53			$466.53	1,048.76
October					$105.47	105.47	
Totals			$466.53		$105.47	$572.00	$1,975.24
Less disbursements							572.00
Balance January 1, 1951							$1,403.24
1951							
April	$710.00		$290.00			$1,000.00	1,048.76
Totals	$710.00		$290.00			$1,000.00	$2,452.32
Less disbursements							1,000.00
Balance July 1, 1951							$1,452.32
July	$130.00	$16.00				$156.00	
December	250.00		$290.00			540.00	55.20
Totals	$430.00	$16.00	$290.00			$736.00	$1,417.52
Less disbursements							736.00
Balance January 1, 1952							$681.52
1952							
January				$10.01		$10.01	
April	$200.00	$9.25				209.25	
May	70.00					70.00	
June	110.00					110.00	1,048.76
Totals	$380.00	$9.25		$10.01		$399.26	$1,729.28
Less disbursements							399.26
Balance July 1, 1952							$1,331.04

CURRANT AND DUCKWATER

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Telephone and Telegraph	Supplies	Industrial insurance	Total	Receipts
Balance July 1, 1950							$2,657.71
1950							
July	$240.00	$82.58			$1.96	$324.54	
August	248.00	55.12				303.12	
September	240.00	14.62	$5.20			327.82	
October	240.00	18.05			14.72	312.77	
November	50.00					50.00	
December	200.00			$2.00		212.00	200.00
Totals	$1,225.00	$221.37	$5.20	$2.00	$20.68	$1,345.25	$2,857.71
Less disbursements							1,345.25
Balance January 1, 1951							$1,512.46
1951							
January		$29.34		$22.80		$62.34	
February	$120.00	9.17			$14.00	143.17	
March	25.00					25.00	
April	25.00					25.00	1,554.72
May	147.50	43.65				196.99	
June	279.00	112.28				391.28	
Totals	$599.50	$200.48		$22.80	$14.00	$849.78	$2,067.19
Less disbursements							849.78
Balance July 1, 1951							$1,217.41
July		$8.00				$8.00	
August	$343.00	206.85				755.85	
September	279.00	87.26				568.26	
October	279.00	113.63				392.63	
November	115.00	32.97				147.97	
December	104.00	20.63				124.63	518.10
Totals	$1,319.00	$476.44				$1,796.44	$2,595.51
Less disbursements							1,795.44
Balance January 1, 1952							$1,199.07
1952							
January	$25.00					$25.00	
February	25.00					25.00	
March	25.00					25.00	
April	45.00					45.00	
May	25.00					25.00	
June	294.50	$30.44				354.94	1,533.06
Totals	$459.50	$30.44				$529.94	$2,432.07
Less disbursements							529.94
Balance July 1, 1952							$2,102.13

PAHRANAGAT LAKE

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Supplies	Equipment	Other current expense	Industrial insurance	Miscellaneous	Total	Receipts
Balance July 1, 1950									$1,556.37
1950									
July	$100.00					$2.00		$102.00	
August	113.00							113.00	
September	100.00							100.00	
October	100.00					6.00	$63.37	175.37	
Totals	$413.00					$8.00	$63.37	$490.37	$1,556.37
Less disbursements									490.37
Balance January 1, 1951									$1,065.90
1951									
February				$22.08				$22.08	
April		$12.06	$4.94	304.20				321.14	$326.94
May		16.00						16.00	
Totals		$32.06	$4.94	$326.28				$363.22	$1,996.74
Less disbursements									363.22
Balance July 1, 1951									$1,633.52
July	$300.00							$300.00	
August	200.00						$9.67	209.67	
September	300.00							300.00	300.00
October	297.00				$14.00			311.00	25.00
Totals	$897.00				$14.00		$9.67	$1,020.67	$1,958.52
Less disbursements									1,020.67
Balance January 1, 1952									$937.85
1952									
April		$8.00						$8.00	
May							$55.06	55.06	
June	$122.58							122.58	1,294.31
Totals	$122.58	$8.00					$55.06	$235.64	$2,117.56
Less disbursements									235.64
Balance July 1, 1952									$1,881.72

BAKER AND LEHMAN CREEKS

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Industrial insurance	Total	Receipts
Balance July 1, 1950					$723.42
1950					
July	$120.00			$120.00	
August	120.00			120.00	
September	120.00			120.00	
October	60.00		$7.20	67.20	
Totals	$420.00		$7.20	$427.20	$723.42
Less disbursements					427.20
Balance January 1, 1951					$296.22
1951					
June	$195.00	$13.50		$208.50	693.21
Totals	$195.00	$13.50		$208.50	$989.43
Less disbursements					208.50
Balance July 1, 1951					$776.93
July	$120.00	$7.25		$127.25	
August	120.00			120.00	
September	195.00			195.00	
Totals	$435.00	$7.25		$442.25	$776.93
Less disbursements					442.25
Balance January 1, 1952					$334.68
1952					
January					0.02
Balance July 1, 1952					$334.70

WHITE RIVER

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Receipts
Balance July 1, 1950	$243.87
1950	
April	744.00
Balance July 1, 1951	$987.87

VIRGIN RIVER

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	U. S. Geological Survey	Telephone and Telegraph	Equipment	Total	Receipts
Balance July 1, 1950							$544.02
1950							
February					$40.65	$40.65	
March		$17.25				17.25	
April	$38.00			$2.00		40.00	
Totals	$38.00	$17.25		$2.00	$40.65	$97.90	$544.02
Less disbursements							97.93
Balance July 1, 1951							$446.09
1951							
October			$200.00			$200.00	
December			200.00			200.00	
Totals			$400.00			$400.00	$446.09
Less disbursements							430.00
Balance January 1, 1952							$46.09
1952							
March			$200.00			$200.00	
April		$8.00				8.00	
June			50.00			50.00	700.00
Totals		$8.00	$250.00			$258.00	$746.09
Less disbursements							258.00
Balance July 1, 1952							$488.09

PAHRUMP VALLEY ARTESIAN BASIN

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Equipment	Totals	Receipts
Balance July 1, 1950					$2,578.18
1950					
October					24.72
Balance January 1, 1951					$2,602.90
1951					
January	$333.33			$333.33	
March		$16.00	$175.00	191.00	
April			525.65	525.65	1,000.00
May		*16.00*		*16.00*	
Totals	$333.33		$658.65	$1,051.98	$3,602.90
Less disbursements					1,051.98
Balance July 1, 1951					$2,570.92
1952					
March	$375.00			$375.00	
April	375.00			375.00	
June					1,059.24
Totals	$750.00			$750.00	$3,630.16
Less disbursements					750.00
Balance July 1, 1952					$2,880.16

Note—Italic figures denote transfers.

LAS VEGAS ARTESIAN BASIN

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Telephone and Telegraph	Supplies	Equipment	Car Expense—Gas, oil	Car Expense—Other	Retirement	Industrial insurance	Miscellaneous	Totals	Receipts
Balance July 1, 1950												$4,232.43
1950												
July	$321.33		$5.15	$5.53			$52.56	$17.17	$18.00		$411.79	
August	333.33		5.15	4.00	$26.69			17.17			386.34	
September	333.33		5.15				58.71	17.17			414.36	
October	333.33		5.15					17.17	18.00		373.65	121.53
November	333.33	$67.05	12.65				26.93	17.17			459.13	
December	333.33		5.15					17.17			355.65	
Totals	$1,999.98	$67.05	$38.60	$9.53	$26.65		$138.20	$103.02	$36.00		$2,400.03	$4,465.75
Less disbursements												2,409.93
Balance January 1, 1951												$2,064.53
1951												
January			$5.15					$17.18	$18.00		$40.37	
February	$250.00		5.15					17.18			272.37	
March	350.00		5.15					17.91			373.18	
April	350.00		5.15		$523.63		$7.69	17.91	18.00		922.44	4,200.00
May	350.00		6.85					17.91			376.80	
June	65.40		5.15				10.50	17.91		$17.40	116.46	
Totals	$1,465.40		$37.60		$523.63		$18.19	$106.04	$36.00	$17.40	$2,204.28	$4,264.53
Less disbursements												2,204.28
Balance July 1, 1951												$4,060.25
July	$333.00		$5.15					$17.90	$18.00		$396.05	
August	350.00		5.15								355.15	
September	350.00	$18.93	9.45					13.31			452.19	250.44
October	350.00	26.25	5.15			$20.85			9.00		410.25	
November	350.00		9.85			22.82	$84.54	17.90			497.91	
December	350.00		5.15			22.24		17.90			395.29	
Totals	$2,183.00	$44.30	$39.70			$78.91	$84.54	$107.49	$27.00		$2,456.75	$4,310.69
Less disbursements												2,456.75
Balance January 1, 1952												$1,853.94
1952												
January	$350.00	$49.38						$17.90	$9.00		$417.28	602.79
February	273.00	21.83	$23.10				$17.70				436.83	
March	80.71	26.45	18.85	$460.00				27.05		$428.00	1,053.14	
April		25.27	27.80				25.00	13.15	9.00		138.22	
May	275.00	43.23	22.85					13.15			469.23	
June	400.00	24.24	14.55					13.15		200.00	655.94	6,013.60
Totals	$1,596.71	$189.80	$127.35	$460.00			$42.70	$112.40	$18.00	$628.00	$3,176.56	$6,679.53
Less disbursements												3,176.56
Balance July 1, 1952												$3,502.97

UNDERGROUND WATER (U. S. G. S.)

Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Travel	Supplies	Equipment	Car Expense: Gas, oil	Car Expense: Other	Printing	Retirement	Miscellaneous	Total	Receipts
Balance July 1, 1950	—	—	—	—	—	—	—	—	—	—	$17,919.43
1950											
August	$15.00	—	—	—	—	—	—	—	$5.00	$20.00	
September	2,325.39	$354.15	$2.25	—	$148.37	$146.02	$27.42	—	5.00	2,906.61	
October	199.50	20.80	7.80	—	—	98.49	—	—	10.00	346.69	
November	41.00	15.40	7.35	—	—	9.00	—	—	5.00	77.95	
December	6,431.15	15.40	—	$10.00	—	9.00	—	—	5.00	6,490.55	
Totals	$9,032.04	$415.75	$17.70	$10.00	$148.37	$262.52	$27.42	—	$30.00	$9,941.80	$17,919.43
Less disbursements	—	—	—	—	—	—	—	—	—	—	9,941.80
Balance January 1, 1951	—	—	—	—	—	—	—	—	—	—	$7,977.63
1951											
January	$10.00	$15.40	$1.60	—	—	$14.00	—	—	$17.70	$58.70	
February	—	15.40	—	$28.47	—	4.35	—	—	—	58.22	
March	80.00	—	—	—	—	4.00	$7.54	—	10.00	111.56	
April	701.47	30.80	3.00	—	—	65.79	—	—	—	801.06	
May	160.72	15.40	3.07	—	—	5.00	264.32	—	—	448.51	
June	3,945.58	30.80	143.35	684.42	—	269.23	1,117.00	—	309.19	6,499.57	
Totals	$4,907.77	$107.80	$151.02	$722.89	—	$362.37	$1,388.88	—	$336.89	$7,977.62	$7,977.63
Less disbursements	—	—	—	—	—	—	—	—	—	—	7,977.62
Reverted July 1, 1951	—	—	—	—	—	—	—	—	—	—	$0.01
Balance July 1, 1951	—	—	—	—	—	—	—	—	—	—	$15,109.00
July	$182.50	—	—	—	—	$5.00	—	—	—	$187.50	
August	233.75	—	—	—	—	14.00	—	—	—	247.75	
September	15.00	$18.40	$5.25	—	—	9.00	—	—	—	44.65	
October	15.00	15.40	6.90	—	—	36.35	—	—	$1.14	74.81	
November	2,280.88	15.40	—	—	—	71.48	—	—	—	2,367.76	
December	15.00	15.40	17.35	$7.00	—	24.25	—	$10.02	—	89.02	
Totals	$2,752.13	$61.40	$29.50	$7.00	—	$160.08	—	$10.02	$1.14	$3,021.49	$15,109.00
Less disbursements	—	—	—	—	—	—	—	—	—	—	3,021.49
Balance January 1, 1952	—	—	—	—	—	—	—	—	—	—	$12,087.51
1952											
January	$190.50	—	—	—	—	$9.00	—	—	—	$199.50	
February	5.00	$15.40	—	—	—	19.00	—	—	—	39.40	
March	10.00	—	—	—	—	9.00	—	—	—	19.00	
April	185.50	21.20	—	—	—	14.00	—	—	—	220.70	
May	10.00	—	—	—	—	23.90	—	—	—	33.90	
June	4,138.21	46.20	$4.83	—	—	79.41	—	—	—	4,268.65	475.00
Totals	$4,529.21	$82.80	$4.83	—	—	$154.31	—	—	—	$4,781.15	$12,562.51
Less disbursements	—	—	—	—	—	—	—	—	—	—	4,781.15
Balance July 1, 1952	—	—	—	—	—	—	—	—	—	—	$7,306.36

UNDERGROUND WATER (HYDROLOGIST)

Statement of Receipts and Disbursements, July 1, 1951, to June 30, 1952, Inclusive

	Compensation	Travel	Telephone and Telegraph	Supplies	Equipment	Car Expense: Gas, oil	Car Expense: Other	Retirement	Industrial insurance	Printing	Total	Receipts
1951												
Balance July 1, 1951												$15,480.00
September							$5.00				$5.00	
October							14.45				14.45	
November	$551.06	$2.10				$69.26					622.42	
December	416.66	33.06			$115.00	3.14		$27.12			594.98	
Totals	$967.72	$35.50			$115.00	$72.40	$19.45	$27.12			$1,237.23	$15,480.00
Less disbursements												1,237.23
Balance January 1, 1952												$14,242.77
1952												
January	$416.66	$50.70		$3.40	$185.20			$20.40	$9.00		$685.36	
February	416.66	29.87									446.53	
March	416.66	96.10				$4.68					518.44	
April	416.66	24.50		61.50	416.60			61.20	3.00	$148.00	1,127.46	
May	416.66	53.21			1.50			20.40			497.77	
June	416.66	96.68	$1.60		159.41			20.40			728.75	
Totals	$2,499.96	$350.06	$1.60	$44.90	$804.71	$4.68		$122.40	$12.00	$148.00	$4,002.31	$14,242.77
Less disbursements												4,002.31
Balance July 1, 1952												$10,240.46

COOPERATIVE STREAM MEASUREMENT
Statement of Receipts and Disbursements, July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Total	Receipts
Balance July 1, 1950			$4,483.69
1951			
August	$631.69	$631.69	
September	1,320.00	1,320.00	
December			468.00
Totals	$1,951.69	$1,951.69	$5,131.69
Less disbursements			1,951.69
Balance January 1, 1951			$3,180.00
1951			
April	$2,640.00	$2,640.00	$240.00
June	1,320.00	1,320.00	480.00
Totals	$3,960.00	$3,960.00	$3,960.00
Less disbursements			3,960.00
Balance July 1, 1951			$12,000.00
October	$1,300.00	$1,300.00	
December	1,600.00	1,600.00	
Totals	$2,900.00	$2,900.00	
Less disbursements			2,900.00
Balance January 1, 1952			$9,100.00
1952			
March	$1,600.00	$1,600.00	
June	1,280.00	1,280.00	$40.00
Totals	$2,880.00	$2,880.00	$9,680.00
Less disbursements			2,880.00
Balance July 1, 1952			$6,800.00

COOPERATIVE SNOW SURVEY

Statement of Receipts and Disbursements July 1, 1950, to June 30, 1952, Inclusive

	Compensation	Telephone and Telegraph	Supplies	Equipment	Car Expense—Gas, oil	Car Expense—Other	Industrial insurance	Miscellaneous	Operating expense	Total	Receipts
Balance July 1, 1950											$1,411.93
1950											
July							$25.40			$25.40	
August	$2.00		$9.52					$5.00		17.55	
November			35.24							35.24	
December			92.80				$5.50			98.30	
Totals	$2.00		$137.69				$30.90	$5.00		$176.59	$1,411.93
Less disbursements											176.59
Balance January 1, 1951											$1,235.34
1951											
February	$64.40				$1.83			$12.28		$80.51	
March	475.90		$35.02			$24.72				535.67	
April	374.25		44.64				$26.05			444.92	
May	45.00		6.74							51.74	
June				$42.17		39.83	20.36			122.42	
Totals	$961.55		$86.40	$42.17	$1.83	$64.64	$46.39	$12.28		$1,235.26	$1,235.34
Less disbursements											1,235.34
1951											
Balance July 1, 1951											$2,024.60
November			$56.43							$56.43	
December			49.33							49.33	
Totals			$105.69							$105.69	$2,024.60
Less disbursements											102.96
Balance January 1, 1952											$2,918.64
1952											
January	$20.00		$32.72							$52.72	
February	74.50		2.43		$6.22					83.55	
March	394.72		74.29		12.10					481.21	
April	208.25	$1.25	37.10	$100.65			$27.42		$32.10	406.72	
June				12.50						94.50	
Totals	$697.47	$1.25	$147.65	$143.19	$18.32		$27.42		$32.10	$1,119.51	$2,918.64
Less disbursements											1,119.51
Balance July 1, 1952											$1,798.53