STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

EARL WARREN, Governor
C. H. PURCELL, Director of Public Works
EDWARD HYATT, State Engineer

INDIAN CREEK ADJUDICATION

REPORT ON

WATER SUPPLY AND USE OF WATER

ON

INDIAN CREEK STREAM SYSTEM

PLUMAS COUNTY, CALIFORNIA

APRIL 1946

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Key showing location of Map Sheets 1 to 4

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1. North one-half of Indian Valley and insert.
2. South one-half of Indian Valley.
3. Genesee Valley and inserts.
4. Red Clover Valley and insert.

Sacramento, California
April 26, 1946

Mr. Gordon Zander
Supervising Hydraulic Engineer
Sacramento, California

Dear Sir:

The accompanying "Report on Water Supply and Use of Water on Indian Creek Stream System, Plumas County, California", is submitted herewith for your approval.

This report has been prepared pursuant to the order entered by the Department on October 1, 1944, granting the petition of F. H. Dill, D. R. Strong, J. E. Cardoza, W. A. Snyder and Arthur Peter for the determination of the rights of the various claimants to the waters of Indian Creek and its tributaries, in Plumas County, California. The purpose of the report is to present engineering data relative to the water supply and water requirements of the lands involved in the above mentioned proceeding, which data were collected during the field investigation made under the supervision of the undersigned.

The field investigation covered the period extending from March 1 to October 24, 1945. The investigation included measurements of the water supply and of the various diversions from the stream system, a study of the duty of water on the irrigated lands and surveys of the diversion systems and irrigated areas.

Certain data relative to climate previously collected by the United States Weather Bureau and the United States Department of Agriculture, Forest Service, which are pertinent to the purpose of this report, have been included herein.

A map showing the stream courses, the conduits diverting water therefrom, lands irrigated and capable of being irrigated by each conduit, and the kind of culture upon the irrigated land on Indian Creek and its tributaries on a scale of one inch to 4400 feet has been prepared and is submitted as a part of this report.

Respectfully submitted,

HARRISON SMITHERUM
Senior Hydraulic Engineer

TABLES

BEFORE THE DEPARTMENT OF PUBLIC WORKS
OF THE STATE OF CALIFORNIA
DIVISION OF WATER RESOURCES

STATE ENGINEER

IN THE MATTER OF THE DETERMINATION OF THE RIGHTS OF THE VARIOUS CLAIMANTS TO THE WATER OF INDIAN CREEK STREAM SYSTEM IN PLUMAS COUNTY, CALIFORNIA.

I, Gordon Zander, Supervising Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, hereby approve the within contained report entitled "Report on Water Supply and Use of Water on Indian Creek Stream System, Plumas County, California", dated April, 1946.

Dated this 26th day of April, 1946.

GORDON ZANDER
Supervising Hydraulic Engineer

I, Edward Hyatt, State Engineer and Chief of the Division of Water Resources, Department of Public Works of the State of California, hereby approve and adopt the within contained report entitled "Report on Water Supply and Use of Water on Indian Creek Stream System, Plumas County, California", dated April, 1946, as a report of the Department in the above entitled proceeding.

WITNESS my hand and the seal of the Department of Public Works of the State of California, this 26th day of April, 1946.

DEPARTMENT OF PUBLIC WORKS

By EDWARD HYATT
State Engineer and Chief of the
Division of Water Resources.

(Seal)

ORGANIZATION

C. H. Purcell	Director of Public Works
Edward Hyatt	State Engineer
Gordon Zander	Supervising Hydraulic Engineer

This report was prepared under the direction of

HARRISON SMITHERUM

Senior Hydraulic Engineer

By

LESLIE C. JOPSON

Associate Hydraulic Engineer

J. Victor Scammon — Assistant Hydraulic Engineer

INTRODUCTION

A petition, dated August 15, 1944, requesting a determination in accordance with Sections 2500 to 2865, both inclusive, of the Water Code, of the rights of the various claimants in and to the water of Indian Creek and its tributaries in Plumas County, California, was received by the Department of Public Works of the State of California, Division of Water Resources, State Engineer, on August 22, 1944. The petition as received was signed by F. H. Dill, D. R. Strong, J. E. Cardoza and W. A. Snyder. Subsequent to receipt of the petition, it was also signed by Arthur Peter.

Upon investigation as provided for in Section 2525 of the Code, the Department found the facts and conditions to be such that the public interest and necessity would be served by the determination sought, and by order under date of October 1, 1944, granted the petition. Thereafter notice of the order granting the petition and of the pendency of the proceeding, specifying that the examination of the stream system would be commenced on March 1, 1945, was duly given by publication. The field examination was commenced on the date specified and extended through the irrigation season to October 24, 1945.

Prior to the initiation of the proceeding numerous complaints relative to the use of water on Indian Creek and its tributaries were received by the Department or its predecessors the State Water Commission and the Division of Water Rights. In 1920, W. J. Miller, and in 1921, the Indian Valley Water Users Association requested the assistance of the Department relative to the distribution of water in the Mill Race Ditch diverting from Indian Creek near Taylorsville,

California. In 1928, H. M. Barngrover, a water right owner on Indian Creek below the Mill Race Ditch complained of conditions affecting his water supply. In 1944, several water right owners on Wolf Creek a tributary of Indian Creek requested assistance in adjusting a dispute over the use of water on that stream. Also in 1944 prior to filing the above mentioned petition, W. A. Snyder, successor to H. M. Barngrover, was involved in a water rights dispute with the owners of the Mill Race Ditch.

In connection with these requests for assistance engineers of the Department have made numerous investigations of the conditions complained of; held meetings with the various water users on the stream system; made recommendations as to changes and improvements; and suggested agreements among the parties as a means of settlement of the water rights involved. However, the matter finally culminated in a request to the Department for an adjudication of the water rights on the entire Indian Creek stream system.

GENERAL DESCRIPTION OF WATERSHED

The Indian Creek watershed is situated in a mountainous plateau area of the Sierra Nevada in the north central part of Plumas County, California, and is tributary to the Feather River stream system. The area is drained by Indian Creek and its tributaries, the more important of which are Red Clover Creek, Last Chance Creek, Ward Creek, Little Grizzly Creek, Lights Creek and Wolf Creek. Indian, Genesee and Red Clover Valleys comprise the main agricultural areas of the basin. Of these, Indian Valley situated at the outlet of the basin is the most extensive. The towns of Greenville on the north Crescent Mills on the south and Taylorsville to the southeast are located along the rim of Indian Valley and constitute important lumbering and agricultural centers in the area.

A short low ridge, which affords little drainage, borders Indian Valley on the west. From here the watershed spreads out with the major axis extending approximately 40 miles to the high plateau areas and mountain ridges bordering the basin on the east. The minor axis, about 25 miles in length, extends from the Diamond Mountain ridge on the north to Grizzly Ridge which forms the southern rim of the basin. The total area within the basin is approximately 753 square miles ranging in elevation from about 8,000 feet along the high ridges bordering the basin on the north and south to 3,500 feet on the floor of Indian Valley. Approximately 585 square miles are above elevation 5,000 feet of which 254 square miles are above the 6,000-foot contour.

A summary of the estimated areas of the tributary watersheds of the stream system follows:

Stream	Place	Area in Square Miles
Red Clover Creek tributaries	Above junction in Red Clover Valley	37.1
Red Clover Creek	Above Genesee Valley	126.1
Last Chance Creek	Above Genesee Valley	210.0
Indian Creek	Above Genesee Valley	104.3
Ward Creek	Above Indian Creek in Genesee Valley	17.7
Little Grizzly Creek	Above Indian Creek in Genesee Valley	35.7
Indian Creek	Above Taylorsville	527.6
Lights Creek	Above North Arm	57.9
Lights Creek	Above Indian Creek	103.2
Wolf Creek	Above North Canyon	35.5
Wolf Creek	Above Indian Creek	76.3
Indian Creek	Above Mouth	752.8

Indian Creek heads in numerous small tributaries, which rise on the south slopes of the Diamond Mountain ridge, and flows southerly some twenty miles to the head of Genesee Valley. Here it is joined by Red Clover Creek from the east and takes a westerly course through Genesee Valley and then northerly through a canyon section to enter Indian Valley near the Town of Taylorsville. Ward and Little Grizzly Creeks from the south and Hosselkus Creek from the north are tributary in Genesee Valley. Montgomery Creek enters the main stream in the canyon section. From Taylorsville the stream continues north a short distance, where it is joined by Lights Creek through the North Arm of Indian Valley. It then follows a circuitous route through Indian Valley to the outlet of the basin due west of Taylorsville. Wolf Creek is tributary from the northwest near Greenville. At the outlet of the valley the stream enters a steep, rocky gorge and flows southwesterly to its junction with Spanish Creek to form the East Branch of the North Fork of Feather River.

Red Clover Creek with its tributary Last Chance Creek drains the broad plateau areas comprising the easterly portion of the watershed. It has its source in Dixie Creek, Dotta Canyon and Crocker Creek which unite on the floor of Red Clover Valley to form the main stream. Below the valley the creek follows a precipitous canyon to its junction with Last Chance Creek and Indian Creek at the head of Genesee Valley. A number of small streams which rise on the north side of Mt. Ingalls are tributary to the canyon from the south and account for most of the water available in the upper portion of Genesee Valley during the summer season.

Last Chance Creek extends to the far eastern portion of the watershed and flows in a general westerly direction to its confluence with Red Clover Creek in the upper end of Genesee Valley. It has numerous tributaries in the plateau area, the largest of which are Thompson Creek from the north and Willow and Squaw Queen Creeks from the south. Below the junction of Squaw Queen Creek the stream enters the steep canyon descent to Genesee Valley. Squaw Valley on Squaw Queen Creek and a large portion of the channel basin on the main creek are flat meadow covered valleys.

Ward Creek rises on the west side of Mt. Ingalls and drains a small area of the high mountains which border the basin on the south. It drops rapidly to the floor of Genesee Valley where it finds its way into Indian Creek just above the Town of Genesee. In common with the other streams rising along the southern rim of the watershed, Ward Creek has a well sustained dry season flow.

Little Grizzly Creek rises on the north slope of Grizzly Ridge and the southwesterly slope of Mt. Ingalls near the headwaters of Ward Creek. It follows a northwesterly course to join Indian Creek

in Genesee Valley below the Town of Genesee. Like Ward Creek, the stream affords a well sustained summer flow.

Lights Creek has its source in numerous small tributaries rising just west of the headwaters of Indian Creek on the southwest slope of Diamond Mountain. It flows southerly through the North Arm of Indian Valley to its junction with Indian Creek, a short distance north of Taylorsville. In its course through the North Arm it is joined by Moonlight and Cooks Creeks from the west and Peter Creek and Foreman Ravine from the east. The entire summer flow of the stream is consumed in the North Arm.

Wolf Creek heads east of Lake Almanor on the south slope of Keddie Ridge, flows in a southeasterly direction into Indian Valley at Greenville and thence south to empty into a flat overflow basin in the central portion of the valley. Two small streams are tributary to Wolf Creek below Greenville, North Canyon from the south and Williams Creek from the north. Although its drainage area is small and the runoff is largely controlled by Round Valley Reservoir (capacity approximately 4,800 acre-feet) at the headwaters, North Canyon is the only important stream south of Greenville which drains the western rim of the basin. The other streams from the western rim are small with intermittent flows.

AGRICULTURAL AREA

General

The agricultural area in the Indian Creek basin is largely confined to Indian Valley, Genesee Valley and Red Clover Valley. Antelope Valley, Squaw Valley and Dixie Valley and several smaller valleys on the upper tributary streams have a considerable acreage of natural meadows but very little of this land is under ditch due to a deficiency in the late season water supply.

Indian Valley contains the largest body of agricultural land within the basin, comprising the flood plains of Indian Creek, Lights Creek and Wolf Creek. These three creeks enter the valley area from different directions and have built up their individual flood plains with a rapidity depending upon the size of the contributing stream. This has resulted in the formation of areas between and at the junctions of the outer edges of the respective flood plains, which are somewhat lower than the surrounding valley floor. During periods of moderate to heavy runoff of the streams entering Indian Valley the depressed areas are flooded due to restricted channel sections and flattened grades in the stream channels below. As the streams approach their summer flows the excess water is drained away leaving the areas to dry up from evaporation.

The depression between Indian Creek and Lights Creek is not extensive. Here only a small acreage is damaged by poor drainage. Between Indian Creek and Wolf Creek, however, the depression area covers almost one thousand acres where poor drainage prevents the growing of cultivated crops at the present time.

Genesee Valley occupies a narrow trough between two mountain

ridges. The trough is followed by the main channel of Indian Creek for its entire length. The valley floor has been partly built up as the flood plain of Indian Creek and its principal tributaries Red Clover Creek, Ward Creek, Hosselkus Creek and Little Grizzly Creek and partly from the overlapping detritus cones from numerous side hill washes. The channel of Indian Creek is cut rather deeply through the basin and acts as a drain to remove water from the sandy soils.

Red Clover Valley is located in the headwaters of the stream system at the junction of Dixie Creek, Dotta Canyon and Crocker Creek. The valley floor has been built up as the flood plain of the various creeks and of numerous small washes which combine in the valley to form Red Clover Creek. Antelope Valley, Squaw Valley and Dixie Valley and other smaller basins in the headwaters of Indian Creek and its tributaries are similar in formation to Red Clover Valley. In recent years there has been a tendency for the streams traversing these mountain basins to cut deeply into the alluvial fill and thereby drain the valley areas which they formerly watered.

Surveys and Maps

Tracings were made from aerial photographs taken in 1941 by the United States Department of Agriculture, Forest Service, showing the important physical features within the irrigated areas.

Using these tracings as a base the section grid, stream systems, diversion conduits, irrigated land and culture were superimposed thereon by measurements and observations made in the field by the Division of Water Resources. The results of these surveys have been combined into a map consisting of four sheets showing the entire irrigated area on a scale of one inch to 1320 feet. Maps 1 and 2 are of the Indian Valley

Area, Map 3 of the Genesee Valley Area and Map 4 of the Red Clover Valley Area.

The diversion points of the various conduits diverting from the Indian Creek stream system have been indicated on the map by numbers 1 to 143, inclusive.

The diversions on the principal streams are numbered from number 1 on the headwaters of Indian Creek to the north to Red Clover Creek on the south in the Upper Tributary Area, followed in order by those in Genesee Valley, on Indian Creek in Indian Valley, on Wolf Creek and finally on Lights Creek and in the North Arm. Diversions from springs and minor tributary streams which do not directly effect the water supply on the principal streams have been numbered in the same order beginning with number 105.

The areas irrigated or subirrigated under the various diversion systems, as shown on the four map sheets, were computed by the use of a planimeter and the irrigated acreage and ownership thereof in each 40 acre subdivision is indicated on the map. An acreage table entitled "Description of Areas Irrigated from Indian Creek and its Tributaries", is hereinafter submitted as Table 1. This table has been prepared from the data contained on the map sheets and shows the ownerships, the number of irrigated acres and the description thereof.

Tables 2, 3 and 4, respectively, describe the points of diversion, the acreages under each diversion and a summary of the diversion systems. A more complete description of the diversion systems is presented in the Appendix to this report.

The kinds of culture upon the irrigated land have been grouped into eight classes and are designated on the map by letters as follows:

a - alfalfa
g - grain
c - clover
t - garden and orchard
mp - meadow pasture
mh - meadow hay
s - overflow pasture
nc - no crop (1945 season)

Soils

Indian Valley and Genesee Valley are structurally formed basins lying between two of several Sierra Nevada summits in the area. The surface soils in the valleys to considerable depth is alluvial fill laid down by years of sedimentation. A short description of the soils in the various valleys in the Indian Creek stream system is given below.

In the Greenville area a reddish brown clay and sandy loam is the prevailing type of soil without much change with depth. In the lower portion of the area the soil grades into a clay loam with a heavy admixture of humus from decayed swamp vegetation. The soil is fertile and grows excellent crops with moderate applications of water.

In the Taylorsville area a dark colored gravelly and sandy loam is the prevailing type. The sandy loam grades into a clay loam at the greater distances from the canyon mouth. The soil is deep with a good supply of humus. Irrigation wells drilled in the Crescent Mills area show very little change in structure with depth. Variation to lighter colored gravelly loams occur along the edge of the valley between Taylorsville and Crescent Mills. Some seepage and springs occur in this area above the main fill laid down by Indian Creek.

In the North Arm area a grayish gravelly loam is the prevailing soil type near the mouth of the canyons. Nearer the center of the basin sandy loams appear of the same general color. The soils are fairly

deep but are underlain near the upper portion of the basin by a clay layer which appears in the Lights Creek channel at a depth of about eight feet. Water gathers in the channel where the clay is exposed. The soil irrigates easily and has sufficient clay content to prevent excessive deep percolation. An irrigation well near the center of the basin was drilled through a thick layer of surface soil followed by a clay layer of some thickness beneath which was found a thick strata of water bearing gravels.

In the Genesee Valley area the soil is largely sandy loam with some areas almost pure sand and other areas grading into coarse gravel. The soil is of sufficient depth to grow all kinds of crops but irrigation water must be applied freely as the deep percolation loss in the sandy soils is heavy.

In Red Clover Valley, Antelope Valley, Squaw Valley, Dixie Valley and other headwater basins the soil conditions are very much alike as the valley floors have been built up by stream deposits and consist of gravelly and sandy loams grading into clay loams of varying depths.

CLIMATE

The predominating characteristics of the climate in the Indian Creek stream system, in common with similar mountain valley areas in the northeastern portion of California, are scarcity of rainfall, wide range of temperature, low humidity and rapid evaporation during the growing season. The precipitation is generally confined to the fall, winter and early spring months with approximately ninety per cent of the total precipitation normally occurring between October 1 and April 30. Subsequent to April 30, rainfall occurs largely in the form of thunder showers which cannot be depended upon for continuous crop growth. Freezing temperatures in the spring and fall months limit the growing season so that crop growth must be consumated during the dry summer months. These climatic conditions indicate the importance of irrigation for successful production of crops in the area.

Summaries of climatological data that have been collected by the U.S. Weather Bureau at Greenville from 1894 to 1914 and at Quincy from 1895 to 1945, and by the U.S. Forest Service, at Greenville from 1937 to date are presented in Tables 5, 6 and 7 at the end of this report. Table 5 summarizes the precipitation records; Table 6 contains a summary of the temperature data at Greenville during the period of the U.S. Weather Bureau records; and Table 7 indicates the character of the precipitation on the valley floor at Greenville.

Due to the varied topography and extent of the Indian Creek stream system it is probable that precipitation and temperature conditions vary somewhat over the area. The high plateau area in the eastern portion of the basin probably receives less precipitation and has lower minimum

and maximum temperatures than are indicated by Tables 5 and 6.

The rainfall record at Greenville indicates that the precipitation in the seasonal year 1944-1945 was only 87 per cent of the average for the eight year period from 1937 to 1945. From comparisons with the 21 year mean at Greenville and with the 22 and 49 year means at Quincy, it appears that the average for this eight year period is probably near the long time mean at Greenville.

Table 7 shows the per cent of the monthly and annual precipitation at Greenville which occurs as snow. The precipitation occurring as snow averages 23 per cent of the seasonal precipitation, for the twenty-one year period of record.

The winters in Indian Valley and Genesee Valley are moderately severe with the monthly minimum temperature remaining below freezing during the period from November to March, inclusive. Melting of the snow on the valley floor generally occurs during February. Usually by March 15, when the mean daily temperature in the valleys approaches 40 degrees, the snow is largely melted below elevation 5000 feet. About April 1 the upper valleys begin to lose their cover of snow and are soon entirely bare. The summers are warm throughout the day, but are cool during the night with the monthly mean maximum temperature ranging from about 79 to 88 degrees in the lower valleys and a few degrees lower at the higher elevations. The highest recorded temperature at Greenville in a 17 year record was 105 degrees and the lowest was minus 14 degrees, a range of 119 degrees.

The growing season in the Indian Creek stream system is short. No records are available as to the dates of killing frosts at Greenville but it is probable that the length of growing season is similar to that

at Susanville where the records show a 142 day season. In the Red Clover Valley area killing frosts for tender vegetation may occur any month in the year.

CROPS

Due to the shortness of the growing season, agriculture on a commercial basis is limited largely to the growing of the hardier grains, meadow grasses and clover. Some alfalfa is grown on the higher and more protected areas in Indian and Genesee valleys. Red Clover Valley and other headwater basins are limited almost entirely to native meadow grasses which can withstand frost during the growing season.

The utilization of meadow crops is ordinarily about equally divided between hay and pasture. The yield of hay averages about two tons per acre with exceptionally good fields yielding as high as three tons to the acre. The poorer fields yield about one ton per acre. On the lands where water is available for irrigation throughout the summer stock may be pastured continuously from about June 1 to September 30 with good results.

Wheat, oats and barley are grown as a rotation crop when replanting alfalfa and clover. Very good yields are harvested. Alfalfa generally produces about the same yield as the meadow grasses.

The crops grown in the area are largely consumed locally in the livestock and dairying industries.

A few commercial gardens are grown in Genesee and Indian Valleys in addition to the usual family gardens and orchards.

WATER SUPPLY

The Indian Creek stream system is naturally divided by drainage or by valley areas into five divisions each of which is largely independent of the others for its source of water supply. Stream flow measuring stations were established on the various streams above the areas irrigated therefrom and records of run-off obtained.

In securing run-off records the standard method developed by the United States Geological survey was used. This consisted in the selection of a measuring station with a control of a permanent character. The more important stations were equipped with a staff gage and an automatic water stage recorder which gave a continuous record of gage heights. The stations of less importance were equipped with staff gages on which occasional gage height readings were made.

Sufficient current meter measurements were made at each station to construct a rating curve, and the records of gage heights for the various stations were applied to the respective rating curves to determine the corresponding discharges. All discharges obtained have been shown in tables included with this report, and are expressed in cubic feet per second. Multiplication by fifty converts cubic feet per second into miners inches under a four inch pressure.

Descriptions of the stations in each division, with reference to run-off records and to the disposition of the water supply follows: Details of the various diversions referred to are contained in Tables 2, 3 and 4 and in the Appendix - Description of Diversion Systems, submitted at the end of this report. Hydrographs of the discharges at the several measuring stations are shown on Plate 1.

Indian Creek in Indian Valley

An automatic water stage recorder was installed on April 12, 1945, on Indian Creek below the Barnes ditches and about one-half mile below the mouth of Montgomery Creek to secure a record of the run-off of Indian Creek above Indian Valley. A record of the discharge at this station is given in Table 16.

The water passing the station originates in and above Genesee Valley with some accretion of flow in the canyon between Genesee Valley and the station. Water is diverted through Diversions 50, 51 and 52 in the canyon area above the station for use on two small ranches and through Diversion 53 from Montgomery Creek for use in the Town of Taylorsville. During the summer months the town diversion takes almost the entire flow of Montgomery Creek. A short distance below the station the Mill Race Ditch (Diversion 54) diverts a large portion of the summer water supply for use on lands below Taylorsville. The Snyder Ditch (Diversion 55) which diverts from the creek about three-fourths mile below the Mill Race Ditch usually diverts the entire dry weather flow of the stream reaching that point. The amount of water reaching the Snyder Ditch at such times is largely dependent upon the tightness of the dam at the intake of the Mill Race Ditch. Diversions 56, 57, 58 and 59 divert from Indian Creek within the valley area and are entirely dependent during the summer months upon return flow and seepage in the creek channel. This return flow was estimated as four cubic feet per second at Diversion 56, seven cubic feet per second at Diversions 57 and 58 and twelve cubic feet per second at Diversion 59. Several small streams enter this division of Indian Valley from the south as follows:

Taylorsville Ravine flows only during the freshet season and Diversions 107, 108 and 109 therefrom are dependent upon spring flow from old mining tunnels and seepage in the creek channel. The total flow is small.

Viacava Ravine has a steady flow throughout the irrigation season of about 0.30 cubic foot per second. During the spring additional water is available from melting snow. Diversions 110, 111 and 112 divert and use all the available water.

Hough Creek has a considerable flow during the spring and early summer but becomes entirely dry by mid-summer. A staff gage was installed on the creek at the county road crossing on May 17, 1945 and intermittent gage readings were taken until the creek failed. The discharge record has been tabulated in Table 17. Diversions 113 and 114 are the only ditches from the stream.

Dixie Creek which enters Indian Creek from the west in the canyon section below Crescent Mills, has a considerable flow in the spring and a well sustained dry weather flow of about two cubic feet per second. Diversion 118 diverts water from this creek.

Diversions 115, 116, 117, 119, 120, 121, 122, 123 and 124 divert from minor streams and springs near and below Crescent Mills.

Genesee Valley Area. Automatic water stage recorders were installed on April 20, 1945, on Indian Creek at Flournoy Bridge, on Ward Creek above Hosselkus Ditches and on Little Grizzly Creek above diversions. The daily discharge at the respective stations has been tabulated in Tables 18, 19 and 20. A staff gage was installed on Hosselkus Creek on April 19, 1945. The daily discharge of the stream has been tabulated in Table 21.

The station on Indian Creek at Flournoy Bridge below the junction of Indian Creek, Last Chance Creek and Red Clover Creek was installed to secure a record of the run-off entering Genesee Valley from these sources. There are eight ditches, Diversions 30 to 37, inclusive, which divert from the streams above the station of which only two, Diversions 35 and 36, divert enough water to effect the water supply at the station. The amounts diverted by the two ditches have been tabulated in Tables 44 and 45. During the dry weather season almost the entire water supply at the station is derived from Red Clover Creek which drains the north slope of Mt. Ingalls between Red Clover Valley and Genesee Valley. The dry weather flow of Indian Creek above Diversion 36 is largely composed of released storage from Taylor Lake (Diversion 1) which is re-diverted at Diversion 36. The release of water from the reservoir commenced July 24, 1945 and continued until late in September. There are no diversions on Indian Creek in Genesee Valley below the station.

The station on Ward Creek was installed above all irrigation use in 1945 to secure a record of the run-off from the stream. There are two small irrigation ditches above the station, Diversions 39 and 40, which were not used in 1945 and one mining ditch, Diversion 38. The water diverted by the mining ditch was returned to the creek above the station. Diversions 41, 42, 43 and 44 divert from the creek below the station.

The station on Little Grizzly Creek was installed above the upper irrigation ditch, and gives a record of the run-off above diversions. There are two small mining diversions near the headwaters of the stream, Diversions 46 and 47, and two irrigation diversions below the station, Diversions 48 and 49.

The station on Hosselkus Creek was installed to secure a record of the run-off available for diversion. The station was established below Diversion 45 at the junction of two branch channels and a second staff gage was placed in the diversion ditch. Table 21 is a combination of the flow at the two gages and gives the total run-off of the stream. There are no diversions below the station.

Diversions 106 and 143 divert from springs in the valley.

Wolf Creek and Greenville Arm. Automatic water stage recorders were installed on Wolf Creek above the Cedar Mill and at the State Highway bridge below Greenville on April 11, 1945, to secure a record of the run-off of Wolf Creek above diversions and below North Canyon. The record of discharge at the station above the Cedar Mill has been corrected to include the flow in a side channel which bypassed the recorder early in the season. The corrected discharge has been tabulated in Table 8. The discharge at the State Highway bridge has been tabulated in Table 9.

North Canyon which is tributary to Wolf Creek between the stations is largely controlled outside of the freshet season by the Round Valley Reservoir. Some water spills from the reservoir down the creek channel after the reservoir fills in the spring but during the remainder of the year no water from the watershed above the dam reaches the lower creek. Some spring water and seepage accumulates in the creek channel near its mouth. The reservoir has been designated as Diversion 64 and the two small ditches which divert seepage from the channel near its mouth are described under Diversions 65 and 66.

Diversions 60 to 63, inclusive, divert from Wolf Creek between the gaging stations and Diversions 126 to 130, inclusive, divert from springs in the same area. Diversions 67 to 74, inclusive, divert from

Wolf Creek below the State Highway bridge. Diversions 125 and 131 to 136, inclusive, divert from springs in the Greenville Arm below the lower station.

A staff gage was installed on Williams Creek at the county road to secure a record of the supplementary water supplied to the area. The discharge at the station has been tabulated in Table 10. Subsequent to June 1 the entire flow was derived from springs in the creek channel a short distance above the station. Diversions 75, 76 and 77 are located above the station but only Diversion 76 was used in 1945. Diversions 78 and 79 divert water below the station.

Lights Creek and North Arm. Automatic water stage recorders were installed on Lights Creek below Moonlight Creek on April 12, 1945, and on Cooks Creek above the Hosken Ranch on April 13, 1945. Staff gages were later installed on a side canyon near the head of the Freeman and Bates Ditch, on Peter Creek and on Foreman Ravine. Measurements at these stations give a complete record of all water entering the North Arm. The discharge at the respective stations has been tabulated in Tables 11, 12, 13, 14 and 15.

The discharge of Lights Creek below Moonlight Creek as tabulated in Table 11 includes the flow of the side canyon tabulated in Table 13, therefore Table 11 represents a record of the total water supply of Lights Creek above diversion in the North Arm. Two ditches, Diversions 86 and 87, divert water for mining and domestic purposes above the station. Diversions 88 to 95, inclusive, divert below the station. During the dry weather season the creek channel below Diversion 89 is generally dry for about three-fourths mile. Seepage flow maintains some water in the channel below that point throughout the season.

The channel of Cooks Creek above and below the recorder station is composed of coarse gravel in which the limited summer flow of the stream disappears to reappear near the county road crossing. The location of the recorder was such that neither the flow above the gravel section nor the seepage return below was measured. However, the record does show the water available for diversion on the Hosken Ranch. A discussion of the seepage return will be found in the chapter on Losses and Accretions in Channels and Ditches. Diversions 80 to 85, inclusive, divert from the stream below the station.

The discharge record on Peter Creek shows the discharge near the irrigated land but does not include the water diverted by Diversion 96 which diverts about one-half mile upstream from the station. The discharge of the ditch has been tabulated in Table 36. Heavy percolation loss from the creek channel occurs near the mouth of the canyon with the water reappearing in a swamp in the meadow about one-half mile below the station. Diversions 97 to 100, inclusive, divert from the creek below the station.

The discharge record of Foreman Ravine shows the discharge at the county road below the lower spring. Since the surface flow from the watershed ceases early in the season, the discharge at the station after about May 20, 1945, represents the flow of the spring. Diversion 103, at the county road, was not used in 1945. Diversion 101 diverts from the North branch of Foreman Ravine above the station and Diversions 102 and 142 divert from springs in the same area.

Diversions 137 to 141, inclusive, are springs in the North Arm area below the gaging stations.

Upper Tributary Area

Staff gages were installed on Dixie Creek and Red Clover Creek at their respective Milford road crossings on May 15, 1945. The record secured at these two stations gives the amount of water available for use in Red Clover Valley below Dotta Canyon. The discharge at these stations has been tabulated in Tables 22 and 23, respectively.

There is one ditch, Diversion 10, on Dixie Creek above the Dixie Creek station and eleven ditches, Diversions 17 to 27, inclusive, on Dotta Canyon and Crocker Creek, above the station on Red Clover Creek. Most of these diversions were not used in 1945.

Below the stations, Diversions 11 to 16, inclusive, divert from Dixie Creek and Diversions 28 and 29 divert from Red Clover Creek. Diversion 105 diverts from a spring in the same area.

No gaging stations were maintained elsewhere in the Upper Tributary Area due to the very limited use of water. Diversions 2 to 7, inclusive, divert from the headwaters of Indian Creek in the Antelope Valley area. Of these only Diversion 2 was used in 1945. Diversions 8 and 9 divert from Willow Creek, a tributary to Last Chance Creek, but were not used in 1945. The summer flow available for these diversions is largely from local springs which rise in or near the irrigated areas.

Summary

The Indian Creek stream system is dependent for its water supply for irrigation upon the melting of the snow at elevations of over 6000 feet. The streams which have a limited watershed area above that elevation, such as Wolf Creek, Cooks Creek, Foreman Ravine and Hosselkus Creek, usually suffer a deficiency of water supply early in the season, whereas the streams having larger areas at the higher elevations have a

better sustained flow.

In 1945 the streams draining the lower watersheds reached their peak flows prior to May 1 and approached their minimum flows early in June. The streams heading at the higher elevations reached their peaks about the same time but maintained their flow better and did not reach their minimum flows until about August 1. Ample water was available on all streams until about June 1. Thereafter the early failing streams experienced an increasing shortage of water which was also felt on the better sustained streams beginning about July 1. Subsequent to August 1 there was inadequate water to supply the demand on any of the streams.

The precipitation records as set forth in Table 5 and discussed in the chapter on Climate show a deficiency in precipitation during the 1944-1945 season which was probably reflected in the water supply. The run-off of the entire Feather River stream system for the 1945 season, as measured at Oroville, was 77 per cent of normal. Consideration of the deficiency of rainfall at Greenville and the sub-normal run-off at Oroville would indicate that the run-off of the Indian Creek stream system in 1945 was probably below normal a similar amount.

LOSSES AND ACCRETIONS IN CHANNELS AND DITCHES

A distinction is made between losses and accretions in stream channels, and losses and accretions in ditches. The losses in stream channels are designated channel losses and those in conduits are designated conveyance losses. Both channel and conveyance losses may be due to percolation, evaporation, and transpiration from vegetation growing therein. Conduits may intercept drainage flow from irrigated areas caused from seepage and waste, or the seepage and waste may return to a natural channel. When drainage from irrigated lands returns to natural channels it is designated as return flow as distinguished from drainage flow in ditches. Accretions to the flow in channels and conduits may also occur from natural springs therein.

1. CHANNEL LOSSES AND RETURN FLOW

The mouths of nearly all the streams flowing into Indian Valley and Genesee Valley are partially filled canyons which were scoured out when the levels of the valley floors were much lower than at present. With the subsequent building up of the valley fill the canyon mouths were submerged in the detritus cones so that now the coarser valley fill extends far back into the canyons and the streams reaching the valleys must flow across the porous fill before entering the agricultural land in the valley proper. As a result of this condition channel loss due to percolation is excessive on some streams in the area. A portion of the loss is generally recaptured from springs occurring in the deeper creek channels in the valley opposite the canyon mouths and is utilized by the lower diversions.

Observations and measurements were made on the channels where

possible and data collected to indicate the extent of the accretions and losses in the various sections.

Indian Creek in Indian Valley. The Mill Race Ditch diverted almost the entire flow of the creek at its head subsequent to August 1, 1945. However, some water was available throughout the course of the stream below the dam. The following observations were taken at various points on the stream along its course through the valley on the dates shown in 1945.

Place of Observation	Cubic Feet per Second Aug. 27	Sept. 2
Above Mill Race Ditch	30.5	30.5
Below Mill Race Ditch	0.80	2.33
Above Snyder Ditch	0.40	1.70
Below Snyder Ditch	0.40	0.50
At Snyder Pump	3.50	3.60
Below Snyder Pump	0.10	0.10
At Toscani Pump	3.50	3.50
Above Crescent Mills	10.0	10.0

The above observations indicate a channel loss under low flow conditions of approximately 0.50 cubic foot per second between the head of the Mill Race Ditch and the head of the Snyder Ditch. Below the Snyder Ditch an appreciable accretion occurs along the entire course of the creek through the valley.

Genesee Valley. Indian Creek in Genesee Valley flows through the trough of the valley with no diversions on the main stream below the station at Flournoy Bridge. The discharge of the tributary streams in the basin was all diverted and used at the time of the measurement of

channel conditions on August 14, 1945. A summary of the measurements taken is given below:

Place of Measurement	Cubic Feet per Second
Station at Flournoy Bridge	8.65
Above Ward Creek	11.87
Below Ward Creek	17.05
Below Little Grizzly Creek	26.10
Station at Barnes (above Mill Race Ditch)	29.00

On the date of the measurement the following discharges were recorded as entering the basin:

Stream	Cubic Feet Per Second
Robinson Ditch	2.30
Ward Creek	3.60
Little Grizzly Creek	8.10
Hosselkus Creek	.00

The above measurements indicate an accretion to flow all along the channel between the two stations. It will be noted that the increase in flow in Genesee Valley exceeds the inflow from the tributary streams. This may be due to seepage from underground sources or may be due to the time lag between the application of irrigation water and the return of resultant percolation to the stream.

Ward Creek and Hosselkus Creek enter the valley through typical buried canyons where stream channel losses are important. Little Grizzly Creek has similar channel characteristics but the channel losses are not serious and were not measured. Hosselkus Creek ceased to flow at the gaging station in June but continued a limited discharge at the head of the canyon fill. No measurements were made at that point.

The following measurements and observations were made on Ward Creek in 1945.

Place of Observation	Cubic Feet per Second July 6	Aug. 1	Aug. 14
Above Goodhue Ditch	---	5.50	---
At Gaging Station	4.50	3.60	3.60
Diverted by Upper Ditches	2.00	.00	2.90
Below Upper Ditches	.00	.50	.00
At Head of Ward Pipe Line	3.40	4.00	2.50

The above measurements indicate a pronounced loss between the Goodhue Ditch (Diversion 38) where the use is non-consumptive, and the gaging station which is located near the head of the irrigation conduits. The channel loss below the station varied from 2.50 cubic feet per second on July 6, 1945, to 3.10 cubic feet per second on August 1 at which time the upper ditches were all closed and the entire flow was passing down the creek. Only 0.50 cubic foot per second reached the lower area where accretion occurs. On August 14 the upper ditch near the station was diverting the entire flow.

Wolf Creek, North Canyon and Williams Creek in Greenville Arm. Wolf Creek, although a typical buried canyon at its mouth, is underlain with a relatively impervious gravelly clay which prevents channel loss from seepage. In fact, accretions to flow occur through the canyon area and on the valley floor where the channel is deep.

North Canyon as described hereinbefore under Water Supply is cut off from its headwater area by Round Valley Reservoir. Any use of water in the canyon outside of the freshet season is limited to seepage through the dam and spring water appearing in the channel near its mouth.

After June 10, 1945, when the reservoir stopped spilling, the flow in the creek near its mouth was as follows:

Place of Measurement	Cubic Feet Per Second July 17	Aug. 20
Amount diverted by Kauffman Ditch	0.30	0.20
Amount diverted by Short and Morel Ditch	0.50	0.45
Passing Short and Morel Ditch	0.05	0.05

Some water in addition to that shown above returned to the creek about one-half mile below the heads of the ditches but the amount was small.

Williams Creek has two branches in its upper basin which join above the gaging station. The disposition of the water supply in 1945 is shown in the following table.

Place of Measurement	Cubic Feet Per Second May 3	June 17	Sept. 1
Williams Creek below Northrop Ranch	2.00	0.80	0.30
Pecks Valley Creek above Pecks Valley	2.20	0.80	0.40
Pecks Valley Creek below Pecks Valley	0.90	0.20	0.05
Williams Creek below junction with Pecks Valley Creek	1.10	0.00	0.00
Williams Creek at gaging station	2.50	1.30	0.05

Lights Creek, Cooks Creek, Peter Creek and Foreman Ravine in North Arm. All of the above named creeks enter the valley through typical buried canyons where channel losses are important. The following measurements and observations were made of losses and accretions on the various streams in 1945.

Lights Creek

Place of Measurement	Cubic Feet per Second July 3	July 10	Aug. 15
At gaging station	11.0	9.00	2.00
Below two Upper ditches	2.00	.70	0.00
At county road	0.00	0.00	0.00
At Burns Dam	5.00	3.50	1.60
Net diversion by two upper ditches	6.40	6.60	1.00

Cooks Creek

	July 10	Aug. 15
Wattis Reservoir	1.50	--
Gaging station	0.00	0.00
At county road	1.20	0.30

Peter Creek

	May 30	July 3
¼ mile above county road	4.82	0.40
¼ mile below county road	4.25	0.00
½ mile below county road	---	0.40

Foreman Ravine

	May 20	Aug. 1
Mouth of canyon	1.50	0.00
Above lower spring	0.10	0.00
Below lower spring	2.00	0.35

On Lights Creek the return flow occurs entirely in the creek channel. On Cooks Creek some return occurs in the creek channel and some in the spring area near Diversion 139 where drains have been constructed to carry away the rising water.

On Peter Creek the return flow appears in the meadow opposite the mouth of the canyon where ditches have been constructed to convey the rising water onto the meadow below. Some water appears in the creek channel which follows the edge of the basin but its source may be side hill

springs instead of seepage from channel loss above. On Foreman Ravine it is indeterminate as to whether the percolation above the lower spring affects the flow therefrom as the spring appears to flow from a rocky formation. Subirrigated areas near the outer edge of the detritus cone may mark the point of return rather than the spring itself.

Upper Tributary Area. Channel loss and accretion is not of great importance in the Upper Tributary Area as most of the streams have cut their channels deeply into the valley floors. The channels act as drains through the mountain basins with only nominal losses. The springs scattered over the area are generally adequate to supply stock water along the major streams.

2. CONVEYANCE LOSSES AND DRAINAGE FLOW

The major portion of the ditches diverting from Indian Creek and its tributaries are less than one-fourth mile in length from their points of diversion to the areas irrigated. In many of the systems the irrigated areas extend up to the intakes of the ditches. Under these conditions the net duty of water measured at the land approximates the gross duty of water measured at the head of the conduit.

The ditches, more than one-fourth mile in length from diversion point to the boundary of the irrigated land and the results of conveyance loss observations and measurements made thereon follows:

Diversion No.	Name of Ditch	Length Miles	Date of Measurement	Discharge in c.f.s. Upper Station	Discharge in c.f.s. Lower Station	Loss per mile c.f.s.
36	Robinson	1.00	7/6/45	5.38	5.05	0.33
53	Taylorsville	2.35	7/13/45	1.60	.25	0.57
54	Mill Race	1.10	9/2/45	28.1	27.3	0.73
55	Snyder	0.90	7/21/45	3.54	2.85	0.77
62	Clark	1.00	8/20/45) 8/25/44)	2.50) 2.65)	1.90) 2.11)	0.60) 0.54)
88	Freeman & Bates	1.25	7/12/45	2.17	1.97	0.16
89	Defanti & Smith	0.50	7/12/45	1.42	1.30	0.24
96	Peter Creek Upper	0.70	5/23/45	0.50	0.40	0.14
102	Foreman Spring	0.50	9/26/45	0.20	0.10	0.20

The loss measurements in the above ditches were made during the periods of flow when the losses were most apparent. Several of the ditches have capacities greater than the discharge at the time of measurement. With greater flows increased losses are to be expected. A few ditches with appreciable losses were not measured due to shortness of ditch, shortness of period of use or to difficulty in finding a steady flow present.

USE OF WATER

The waters of Indian Creek and its tributaries are used for irrigation, domestic, stock-watering, mining, municipal and industrial purposes. The total area irrigated by the stream system is 12,012.5 acres. Use for domestic and stock-watering purposes is largely incidental to irrigation on the same area. Mining use is made at scattered locations throughout the area. Municipal use is confined to the towns of Greenville, Crescent Mills and Taylorsville. Industrially the water is used in lumbering operations near Greenville and Taylorsville.

Various methods of irrigation are practiced on the lands served with water within the area. The most common method is by wild flooding from the main ditches and laterals. Water is conveyed by the main ditch to the high point of the land to be irrigated and then distributed by laterals along the higher ridges of the tract, from which it is allowed to spread more or less at random over the area served by the ditch system. Some portions of the irrigated lands have been leveled and an orderly system of distributing ditches laid out, permitting a more efficient use of the water than is possible under wild flooding. Border checks and furrows are used in limited areas for special crops. Subirrigation occurs in some areas incidental to surface irrigation or as a result of seepage from creek channels.

Records were kept of the disposition of the flow of Indian Creek and its tributaries wherever possible during the period of the investigation. These records are hereinafter submitted in Tables 24 to 27, inclusive, for diversions from Wolf Creek; Tables 28 to 36, inclusive, for diversions from Lights Creek and in North Arm; Tables 37 to 43, inclusive,

for diversions from Indian Creek in Indian Valley and divisions on the Mill Race Ditch; Tables 44 to 49, inclusive, for diversions in Genesee Valley; and Table 50 for a diversion in Red Clover Valley.

The measurements of daily discharge as set forth in the tables described above were made at the respective heads of the conduits except where otherwise noted in the titles of the respective tables. Where possible, weirs were installed at the measuring points. On the conduits without weirs, measuring stations equipped with staff gages were established to obtain measurement of discharge. At each of these latter stations the discharge-gage height relation was determined by means of a current meter rated by the U. S. Geological Survey at the Bureau of Standards in Washington, D. C.

The use of water under the various diversion systems is hereinafter summarized in Tables 2, 3 and 4 and is further discussed in the Appendix - Description of Diversion Systems.

DUTY OF WATER

The use of water on Indian Creek and its tributaries is confined almost entirely to consumptive uses for domestic, stock-watering, irrigation, municipal and industrial purposes. The limited mining use is largely non-consumptive.

Measurements and observations were made during the investigation on the use of water on typical areas to secure data which would serve as a basis for determining the water requirements for irrigation. Records were kept of the amount of water diverted and the period of use and observations were made as to the adequacy of the irrigation over the area served. This information has been used to determine the "duty of water" on the various irrigation systems serving lands having different soil conditions, crops and water supplies.

A summary of these data is given in Table 51. The first three columns of the table are self-explanatory. The fourth, fifth and sixth columns, respectively, give the irrigation period, the amount of water diverted during that period and the acreage to which that water was applied. In each case the irrigation period was selected to cover the time during which water was used for irrigation of the acreage shown. The amount of water diverted is the amount delivered at the margin of the irrigated acreage. Based upon these data the "Net Duty" in acre-feet per acre and acres per cubic foot per second, as shown in the last two columns, was computed.

The data presented in the table have been grouped according to basins or areas having similar conditions of water supply, soil, and water requirements. A discussion of these data as they pertain to the

several groups follows:

Indian Creek in Indian Valley

Excepting the Young laterals because of predominating domestic use, the use of water on the areas included in this group is almost entirely for general irrigation on soils which are uniformly sandy loam. Under such conditions the duty of water would not be expected to show much variation. However, the computed duties range from one cubic foot per second to 60 acres on lands under the Hardgrave, Neer and Dolphin lateral to 106 and 104 acres, respectively, on lands under the Cottingham and Blood Slough laterals. The duty for the group as a whole averaged one cubic foot per second to 89 acres.

Under the Hardgrave, Neer and Dolphin lateral the water supply was more than ample throughout the season. It was observed that at times the division outlet on this lateral was partially closed while other users on the system continued to irrigate. At other times considerable drainage occurred from the lands watered under this lateral. These observations indicate that the measured duty of water of one cubic foot per second to 60 acres is probably lower than that necessary to adequately irrigate the lands served.

Under the Vanderhoeven lateral the lands irrigated received an ample supply of water. Here the measured duty was one cubic foot per second to 79 acres of irrigated land. Some of the land normally served by this lateral was not irrigated in 1945.

The lands under the Cottingham and Blood Slough laterals did not receive sufficient water after July 1 to maintain best irrigation practices, hence the duties of one cubic foot per second to 106 and 104 acres of irrigated land, respectively, are higher than would have resulted had more

water been available. Observations made prior to July 1, indicated that it took several days longer to complete an irrigation under these laterals than was necessary on the laterals at the first division point.

On the Snyder Ditch only the water needed to properly irrigate the land under the ditch was diverted prior to August 1 and thereafter the pumping was limited in the same manner. Observations were that the area was adequately watered and that the hay crop harvested in 1945 was among the best in the area. It, therefore, appears that the duty of one cubic foot per second to 80 acres is an accurate measurement of the water requirements for the land under the ditch. Considering the apparent reasons for the low duty of water under the Hardgrave, Neer and Dolphin lateral; and the high duty under the Cottingham and Blood Slough laterals, it appears that on the basis of the results obtained under the Vanderhoeven lateral and the Snyder Ditch, a "net duty" of one cubic foot per second to 80 acres closely approximates the water requirements in the area. A like duty has been found to apply to sandy loam and loam soils in those portions of Honey Lake and Sierra Valleys where water supply and crop conditions are similar.

Genesee Valley

Duty of water studies were made on six ditches in this area and, excepting the Grizzly Upper Ditch, the results show close agreement. The average "net duty" of one cubic foot per second to 53 acres, as found on the five comparable areas, appears to be a reasonable water requirement for the soil conditions encountered in most of Genesee Valley.

The duty of water on the Grizzly Upper Ditch was computed as gross duty using the discharge at the head of the ditch some distance above the irrigated land. The duty of one cubic foot per second to 10 acres is

extremely low for ordinary usage. It is, however, readily accounted for when the gravelly nature of the irrigated land and the use of 3.00 cubic feet per second for domestic and commercial gardens are considered. Also, the heavy accretion to the flow of Indian Creek from the area irrigated under the ditch must be given consideration. Consequently the actual consumption of water is not great and the same "net duty" would appear to be applicable to the lands under the Grizzly Upper Ditch as was found for other portions of Genesee Valley with proper consideration given to garden use and to the necessity for large irrigation heads.

Wolf Creek

The irrigation period used for each ditch in this group covered the time when irrigation heads were available for the respective ditches. The areas were estimated on the basis of the amount of land producing a fair crop in 1945. However, on the Schieser Ditch and the Forgay and Frederickson Ditch there was inadequate water toward the end of the periods to fully irrigate the areas considered and during the shorter period on the McIntosh and Forgay ditches some water wasted. The water requirement for the area appears to lie between the duties found on the Schieser Ditch and the McIntosh and Forgay Ditches or a "net duty" of one cubic foot per second to 90 acres. In further support of this requirement, the higher clay content of the soils in the Wolf Creek area as compared with the sandy loam soils in the Indian Creek area would indicate a duty of water somewhat higher than that of one cubic foot per second to 80 acres found in the latter area.

Lights Creek

The Freeman and Bates, Defanti and Smith, Peter Upper, Quigley and Cliff and Peter Lower Ditches were used almost entirely for the irrigation

of meadow in 1945 and, during the period considered, diverted at near capacity. Some excess waste occurred from all these ditches and collected in Cooks Creek and Lower Peter Creek during the latter one-half of the irrigation period shown.

The Burns Ditch has a limited diversion capacity and the Quigley Upper and Quigley Middle Ditches serve an area partly planted to grain so that in neither case were large irrigation heads possible. However, the area under the ditches was irrigated in a satisfactory manner. With due consideration of the waste from some of the meadow lands during the period used and the extremely economical use on the other lands it appears that a "net duty" of one cubic foot to 80 acres would be ample for use on all except the most gravelly soils. From a comparison with water requirements on gravelly soils in other areas a "net duty" of one cubic foot per second to 60 acres would be ample to fill the requirements of the gravelly areas on the Hosken and J. R. Peter ranches.

Upper Tributary Area

A record of the amount of water diverted was secured on the Guidici Dixie Ditch in Red Clover Valley. The resultant "net duty" as determined therefrom is one cubic foot per second to 70 acres and appears to be proper for the territory served. A similar net duty should apply to other diversions in the Upper Tributary Area.

APPLICATIONS BEFORE THE DEPARTMENT OF PUBLIC WORKS

Eight applications to appropriate water from Indian Creek and its tributaries have been approved by the Department under the provisions of the Water Code (formerly Water Commission Act). Four of these are still under permit and four have been licensed as completed.

Descriptions of the projects proposed under the applications follow:

Application 89

This application was filed by John F. Cowan, on July 29, 1915, for 2.0 cubic feet per second from Dolly Gulch Creek from January 1 to December 31 of each year for milling and concentrating purposes. Permit 46 was issued on December 9, 1915, approving the application.

The points of diversion are indicated as Diversions 46 and 47 on the Division of Water Resources Map. Collecting basins have been installed at the diversion points to collect the water from a number of drains running out from them into the surrounding spring areas. A 2-inch pipe line delivers the water from Diversion 47 to Diversion 46 from where the combined flow from several springs is conveyed in a 6-inch pipe line to the place of use at the camp and mill in the NE¼ NE¼ of Section 7, T. 24 N., R. 12 E., M.D.B. and M. A fall of approximately sixty feet is available between the head of the pipe line and a sump from which water is pumped for fire protection purposes.

All water diverted in excess of that actually consumed is returned to Dolly Gulch Creek in the SE¼ NE¼ of Section 7, T. 24 N., R. 12 E., M.D.B. and M.

License 171 was issued on February 26, 1923, confirming the

appropriation of 2.00 cubic feet per second for mining purposes.

The Plumas Mining Company is now the owner of the application and license which attach to the Walker Mine property.

Application 4261

This application was filed by the Board of Trustees of Genesee School District, on October 16, 1924, for 0.001 cubic foot per second from an unnamed spring tributary to Indian Creek from January 1 to December 31 of each year for domestic purposes. Permit 2148 was issued on June 30, 1925, approving the application.

The point of diversion is indicated as Diversion 143 on the Division of Water Resources Map. A small basin has been excavated over the spring and refilled with coarse rock to collect the water and allow it to drain into a sunken 50 gallon barrel which serves as a forebay for the pipe line. The pipe line which consists of 30 feet of 1 inch pipe and about 3170 feet of 3/4 inch pipe delivers the water to the place of use in the NW¼ SW¼ Section 2, T. 25 N., R. 11 E., M.D.B. and M. The difference in elevation between the forebay and outlet of the pipe line is approximately 280 feet giving a calculated capacity of about 0.004 cubic foot per second.

License 732 was issued on May 16, 1928, confirming the appropriation of 0.001 cubic foot per second for domestic purposes.

J. L. Robinson and Elizabeth E. Robinson are now the owners of the application and license.

Application 6728

This application was filed by W. H. Morrison, on July 11, 1930, for 0.20 cubic foot per second from two unnamed springs tributary to Indian Creek from January 1 to December 31 of each year for domestic purposes. Permit 3882 was issued on April 22, 1932, approving the application.

Only one point of diversion was developed under this application which is indicated as Diversion 119 on the Division of Water Resources Map. The remainder of the project is being developed under Application 9968.

The conduit from Diversion 119 consists of 300 feet of 3-inch pipe then 700 feet of 2-inch pipe and then 3500 feet of 3-inch pipe under a maximum head of about 472 feet. The place of use is in Indian Falls, Plumas County in the W½ of Section 3, T. 25 N., R. 9 E., M.D.B. and M. The capacity of the pipe line is about 0.25 cubic foot per second.

License 2143 was issued on January 14, 1941, confirming the appropriation of 7500 gallons per day (0.012 c.f.s.) for domestic purposes.

The Dawn Institute of Science and Art is now the owner of the application and license.

Application 8460

This application was filed by J. L. Robinson and Elizabeth E. Robinson, on October 3, 1935, for 200 acre feet per annum from Taylor Lake tributary to Hungry Creek and thence Indian Creek to be collected between October 1 of one year and July 1 of the succeeding year for irrigation and domestic purposes. Permit 4682 was issued on January 10, 1936, approving the application.

The point of diversion is indicated by Diversion 1 on the Division of Water Resources Map. An earth and rock fill dam 12 feet high and 160 feet long has been constructed across the outlet of a natural lake raising the water surface sufficiently to store approximately 200 acre feet of water. A 1.5-foot by 4.0-foot spillway at the south end of the dam spills excess water back into Hungry Creek. A 6-inch outlet pipe controlled by a screw gate at the discharge end is used to release the

stored water. The water is rediverted at Diversion 36 for use on the lands of the applicant in Genesee Valley.

License 2223 was issued on May 5, 1941, confirming the appropriation of 200 acre feet per annum for the purposes named.

Application 9046

This application was filed by Douglas L. Hunt, on July 23, 1937, for 0.016 cubic foot per second (10,000 g.p.d.) from an unnamed stream tributary to Indian Creek from January 1 to December 31 of each year for domestic purposes. Permit 5009 was issued on September 24, 1937, approving the application.

The point of diversion is indicated as Diversion 117 on the Division of Water Resources Map. The project has not been completed although about one-half of the 2000 feet of pipe necessary to deliver the water to the place of use has been laid. A temporary water supply has been developed by pumping from small springs near the place of use in the SE¼ SE¼ of Section 26, T. 26 N., R. 9 E., M.D.B. and M.

Austin A. Avrit is now the owner of the application and permit.

Application 9968

This application was filed by Mrs. Orpha Jackson, on August 7, 1940, for 1.25 cubic feet per second from an unnamed spring tributary to Indian Creek from January 1 to December 31 of each year for domestic purposes. Permit 5684 was issued on December 10, 1940, approving the application.

The point of diversion is indicated by Diversion 120 on the Division of Water Resources Map. The construction of a 6-inch diameter pipe line with a booster pump has been partly completed. The conduit will convey the water about 1500 feet from the spring to the place of use in

Indian Falls where it will supplement the use under Application 6728. The distribution system is already in place and in use under that application.

The Dawn Institute of Science and Art is now the owner of the application and permit.

Application 10672

This application was filed by Harley E. Northrop, on July 9, 1943, for 1.00 cubic foot per second from Williams Creek from January 1 to December 31 of each year for irrigation and domestic purposes. Permit 6175 was issued on September 27, 1943, approving the application.

The point of diversion described in the application is indicated by Diversion 75 on the Division of Water Resources Map. The dam and ditch have not yet been constructed and no use has been made of the water. The contemplated place of use is in the SW¼ NE¼, SE¼ NW¼ and NE¼ SW¼ of Section 26, T. 27 N., R. 9 E., M.D.B. and M.

Irene Northrop is now the owner of the application and permit.

Application 10809

This application was filed by W. J. Beacom and C. G. Beacom on May 6, 1944, for 0.75 cubic foot per second from Indian Creek from January 1 to December 31 of each year for irrigation and domestic purposes. Permit 6295 was issued on September 1, 1944, approving the application.

The point of diversion is indicated as Diversion 50 on the Division of Water Resources Map. An earth ditch about 1600 feet in length conveys the water to the place of use in Lot 6 of Section 7, T. 25 N., R. 11 E., M.D.B. and M. and NE¼ SE¼ and SE¼ NE¼ of Section 12, T. 25 N., R. 10 E., M.D.B. and M.

The application was filed to place on record an old water right initiated many years ago.

TABLE 1

DESCRIPTION OF AREAS IRRIGATED FROM INDIAN CREEK AND ITS TRIBUTARIES

Austin A. Avrit (Map Sheet 2)

Domestic in SE¼ of SE¼ of Section 26, T. 26 N., R. 9 E., M.D.B.&M.

J. H. Barrie (Map Sheet 1)

0.8 acre in NW¼ NE¼ of Section 10, T. 26 N., R. 9 E., M.D.B.&M.
0.8 acre - Total

E. R. Bates (Map Sheet 1)

0.3 acre in NE¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
16.5 acres in SE¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
13.7 acres in SW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
1.8 acres in NW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
24.3 acres in NE¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
13.3 acres in SE¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
1.4 acres in SW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
16.5 acres in NW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
87.8 acres - Total

Maurice A. Bates and Marion A. Flood, et al. (Map Sheet 1)

Domestic in SW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.

W. J. Beacom and C. G. Beacom (Map Sheet 2)

7.0 acres in SE¼ NE¼ of Section 12, T. 25 N., R. 10 E., M.D.B.&M.
4.0 acres in NE¼ SE¼ of Section 12, T. 25 N., R. 10 E., M.D.B.&M.
7.0 acres in Lot 6 of Section 7, T. 25 N., R. 10 E., M.D.B.&M.
18.0 acres - Total

Ira Benson (Map Sheet 1)

8.8 acres in NW¼ SE¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M.
8.8 acres - Total

Bidwell Water Company (Map Sheet 1)

Municipal, industrial and irrigation water supply in Sections 1, 2, 3, 10, 11, and 15, T. 26 N., R. 9 E., M.D.B.&M. and Sections 5, 6, 7 and 8, T. 26 N. R. 10 E., M.D.B.&M.

Samuel F. Brown and Hazel Brown (Map Sheet 2)

2.9 acres in NE¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
20.1 acres in SW¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
2.6 acres in NW¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
25.6 acres in NE¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
9.9 acres in NW¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
36.2 acres in NE¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
31.0 acres in NW¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
3.6 acres in NE¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
18.1 acres in SE¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NW¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
230.6 acres - Total (Home Ranch)

1.3 acres in SW¼ NE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
6.5 acres in NW¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
9.2 acres in SW¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
39.8 acres in SE¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
16.5 acres in SW¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
31.7 acres in NW¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
20.1 acres in NE¼ NW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
39.8 acres in SE¼ NW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
32.5 acres in SW¼ NW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
0.3 acres in NW¼ NW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
4.9 acres in NE¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
0.8 acres in SE¼ NE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
2.4 acres in NW¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
3.4 acres in NE¼ NW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
249.2 acres - Total (Stampfli Ranch)

(Map Sheet 1)

13.8 acres in SE¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
27.6 acres in SW¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in NE¼ SE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
2.0 acres in SE¼ SE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
18.0 acres in SW¼ SE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
39.5 acres in NE¼ SW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
30.5 acres in SE¼ SW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
0.8 acre in SW¼ SW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
8.0 acres in NW¼ SW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
10.5 acres in SE¼ NW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in NW¼ NE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
215.0 acres - Total (Overflow) Tule Ranch

Samuel F. Brown, Hazel Brown and Fletcher L. Brown (Map Sheet 2)

6.4 acres in NE¼ SE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
39.5 acres in SE¼ SE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.

Samuel F. Brown, Hazel Brown and Fletcher L. Brown (Cont'd) (Map Sheet 2)

40.0 acres in SW¼ SE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
11.2 acres in NW¼ SE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
0.4 acre in NE¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in SE¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
16.7 acres in SW¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
1.9 acres in NW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
15.6 acres in SW¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
33.4 acres in NW¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
31.3 acres in SE¼ NE¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
15.3 acres in SW¼ NE¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
4.2 acres in NE¼ SE¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in NE¼ NW¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
0.2 acre in SE¼ NW¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
298.1 acres - Total (Red River Lumber Co. Ranch)

Wilbur Burns (Map Sheet 1)

22.6 acres in SW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
5.0 acres in NW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
18.2 acres in NE¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
24.2 acres in SE¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
12.4 acres in SW¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
30.9 acres in NW¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
13.7 acres in NE¼ SE¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
* 1.0 acres in SE¼ SE¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
128.0 acres - Total

* Denotes irrigated land outside of property line.

Gordon L. Byers (Map Sheet 1)

Domestic in NW¼ SW¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M.

J. E. Cardoza and Marian Cardoza (Map Sheet 2)

13.8 acres in NE¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
14.6 acres in SE¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
35.2 acres in NW¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
30.2 acres in NE¼ SW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
28.1 acres in SE¼ SW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
5.0 acres in NE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
22.6 acres in NW¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
6.8 acres in NE¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
196.3 acres - Total (Indian Creek)

J. E. Cardoza and Marian Cardoza (Cont'd.) (Map Sheet 2)

5.0 acres in NE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
4.8 acres in SE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
27.8 acres in SW¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
17.4 acres in NW¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in NE¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in SE¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
94.4 acres - Total (Subirrigated)

19.3 acres in SE¼ NE¼ of Section 25, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NE¼ SE¼ of Section 25, T. 26 N., R. 10 E., M.D.B.&M.
4.0 acres in NW¼ SW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
6.0 acres in NE¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
21.3 acres in NW¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
39.0 acres in SW¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
8.9 acres in SE¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
99.1 acres - Total (Cardoza Spring)

G. R. Clark (Map Sheet 2)

Domestic in Town of Taylorsville in NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.

Walter E. Cliff (Map Sheet 1)

3.2 acres in SE¼ SE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
0.1 acre in SW¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
* 1.7 acres in NW¼ SW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
8.7 acres in NE¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in SE¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
33.2 acres in SW¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
36.2 acres in NW¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
39.5 acres in NE¼ NE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
28.0 acres in SE¼ NE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
12.2 acres in SW¼ NE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
5.6 acres in NW¼ NE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
17.2 acres in NE¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
5.6 acres in NW¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
192.2 acres - Total *Denotes irrigated land outside of property line.

12.0 acres in SE¼ NE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
1.6 acres in SW¼ NE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
7.2 acres in NE¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
7.2 acres in SW¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
14.8 acres in NW¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
42.8 acres - Total (Subirrigated)

Clover Valley Lumber Company (Map Sheet 3)

9.3 acres in SE¼ NE¼ of Section 24, T. 27 N., R. 12 E., M.D.B.&M.
4.7 acres in SW¼ NE¼ of Section 24, T. 27 N., R. 12 E., M.D.B.&M.
5.3 acres in NE¼ SE¼ of Section 24, T. 27 N., R. 12 E., M.D.B.&M.
14.0 acres in NW¼ SE¼ of Section 24, T. 27 N., R. 12 E., M.D.B.&M.
9.3 acres in NE¼ SW¼ of Section 24, T. 27 N., R. 12 E., M.D.B.&M.
42.6 acres - Total (Antelope Valley)

John F. Coffin and Helen H. Coffin, Harry D. Coffin and Oleta Coffin (Map Sheet 1)

2.9 acres in SE¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
16.7 acres in NE¼ SE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
2.8 acres in NW¼ SE¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
16.9 acres in NE¼ SW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
21.1 acres in NW¼ SW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
3.1 acres in SW¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
63.5 acres - Total (Overflow)

R. C. Conklin (Map Sheet 4)

32.9 acres in SE¼ NE¼ of Section 12, T. 24 N., R. 13 E., M.D.B.&M.
33.6 acres in SW¼ NE¼ of Section 12, T. 24 N., R. 13 E., M.D.B.&M.
8.0 acres in NW¼ NE¼ of Section 12, T. 24 N., R. 13 E., M.D.B.&M.
20.1 acres in NE¼ NW¼ of Section 12, T. 24 N., R. 13 E., M.D.B.&M.
22.6 acres in SE¼ NW¼ of Section 12, T. 24 N., R. 13 E., M.D.B.&M.
17.7 acres in SW¼ SW¼ of Section 5, T. 24 N., R. 14 E., M.D.B.&M.
6.9 acres in NE¼ SE¼ of Section 6, T. 24 N., R. 14 E., M.D.B.&M.
39.8 acres in SE¼ SE¼ of Section 6, T. 24 N., R. 14 E., M.D.B.&M.
15.5 acres in Lot 4 of Section 6, T. 24 N., R. 14 E., M.D.B.&M.
24.5 acres in Lot 5 of Section 6, T. 24 N., R. 14 E., M.D.B.&M.
14.8 acres in NE¼ NE¼ of Section 7, T. 24 N., R. 14 E., M.D.B.&M.
1.3 acres in NW¼ NE¼ of Section 7, T. 24 N., R. 14 E., M.D.B.&M.
28.3 acres in NW¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
266.0 acres - Total

Geo. L. Curnow (Map Sheet 3)

13.9 acres in W½ of Lot 2 of Section 6, T. 25 N., R. 12 E., M.D.B.&M.
27.3 acres in Lot 4 of Section 6, T. 25 N., R. 12 E., M.D.B.&M.
33.0 acres in Lot 5 of Section 6, T. 25 N., R. 12 E., M.D.B.&M.
1.8 acres in Lot 6 of Section 6, T. 25 N., R. 12 E., M.D.B.&M.
0.8 acre in Lot 4 of Section 31, T. 26 N., R. 12 E., M.D.B.&M.
13.6 acres in Lot 5 of Section 31, T. 26 N., R. 12 E., M.D.B.&M.
6.2 acres in Lot 8 of Section 31, T. 26 N., R. 12 E., M.D.B.&M.
96.6 acres - Total

John Davis and Charles Davis (Map Sheet 3)

2.8 acres in NE¼ NE¼ of Section 11, T. 25 N., R. 11 E., M.D.B.&M.
0.6 acre in NW¼ NW¼ of Section 12, T. 25 N., R. 11 E., M.D.B.&M.
3.4 acres - Total

Dawn Institute of Science and Art (Map Sheet 2)

Domestic and resort in the NE¼ SW¼ of Section 3, T. 25 N., R. 9 E., M.D.B.&M.
Domestic and resort in the SE¼ SW¼ of Section 3, T. 25 N., R. 9 E., M.D.B.&M.
Domestic and resort in the NW¼ SW¼ of Section 3, T. 25 N., R. 9 E., M.D.B.&M.
Domestic and resort in the NE¼ NW¼ of Section 3, T. 25 N., R. 9 E., M.D.B.&M.
Domestic and resort in the SW¼ NW¼ of Section 3, T. 25 N., R. 9 E., M.D.B.&M.

Ralph Defanti (Map Sheet 1)

35.9 acres in NE¼ NE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in SE¼ NE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
33.5 acres in SW¼ NE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
28.6 acres in NW¼ NE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
11.2 acres in NE¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
19.4 acres in SE¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
0.8 acre in NW¼ NW¼ of Section 6, T. 26 N., R. 11 E., M.D.B.&M.
3.7 acres in SE¼ SE¼ of Section 36, T. 27 N., R. 10 E., M.D.B.&M.
0.8 acre in SW¼ SW¼ of Section 31, T. 27 N., R. 11 E., M.D.B.&M.
150.0 acres - Total

Fred H. Dill (Map Sheet 2)

13.7 acres in NE¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
16.9 acres in NW¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
1.8 acres in NE¼ NW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
32.4 acres - Total

3.3 acres in SE¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
6.4 acres in NE¼ NW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
9.7 acres - Total (Overflow)

W. H. Dolphin (Map Sheet 2)

18.7 acres in SW¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NW¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
4.4 acres in NE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.1 acre in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in SW¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.

W. H. Dolphin (Cont'd.) (Map Sheet 2)

33.7 acres in NW¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
6.7 acres in NE¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.1 acre in NW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
23.1 acres in NE¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
18.8 acres in SW¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
6.6 acres in NW¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
153.4 acres - Total

Mrs. M. L. Donnenwirth (Map Sheet 2)

0.9 acre in NW¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.

A. J. Downey and D. W. Downey (Map Sheet 1)

Mining and domestic in Lot 7, T. 27 N., R. 11 E., M.D.B.&M.
Mining and domestic in Lot 11, T. 27 N., R. 11 E., M.D.B.&M.

P. R. Evans (Map Sheet 3)

7.0 acres in NE¼ SE¼ of Section 31, T. 26 N., R. 12 E., M.D.B.&M.
7.1 acres in NW¼ SE¼ of Section 31, T. 26 N., R. 12 E., M.D.B.&M.
14.1 acres - Total

F. W. Flux (Map Sheet 3)

3.3 acres in SW¼ NE¼ of Section 25, T. 27 N., R. 12 E., M.D.B.&M.
2.7 acres in NW¼ NE¼ of Section 25, T. 27 N., R. 12 E., M.D.B.&M.
14.0 acres in NE¼ NW¼ of Section 25, T. 27 N., R. 12 E., M.D.B.&M.
* 4.7 acres in SE¼ NW¼ of Section 25, T. 27 N., R. 12 E., M.D.B.&M.
1.5 acres in NW¼ NW¼ of Section 25, T. 27 N., R. 12 E., M.D.B.&M.
3.3 acres in NE¼ NE¼ of Section 26, T. 27 N., R. 12 E., M.D.B.&M.
29.5 acres - Total (Antelope Valley)
*Denotes irrigated land outside of property line

C. G. Frederickson and Helen V. Frederickson (Map Sheet 1)

4.7 acres in NE¼ SE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
37.2 acres in SE¼ SE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
35.2 acres in SW¼ SE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
6.0 acres in NW¼ SE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
1.0 acre in NE¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
32.2 acres in SE¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
25.9 acres in NE¼ NE¼ of Section 12, T. 26 N., R. 9 E., M.D.B.&M.
4.7 acres in NW¼ NE¼ of Section 12, T. 26 N., R. 9 E., M.D.B.&M.
19.7 acres in SW¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
0.8 acre in NW¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.

C. G. Frederickson and Helen V. Frederickson (Cont'd.) (Map Sheet 1)

0.3 acre in SW¼ NW¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
25.9 acres in NW¼ NW¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
193.6 acres - Total

James T. Freeman (Map Sheet 1)

13.7 acres in SE¼ NE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
37.6 acres in NE¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
3.0 acres in SE¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
2.6 acres in NW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
10.4 acres in NW¼ SW¼ of Section 6, T. 26 N., R. 11 E., M.D.B.&M.
0.2 acre in SE¼ NW¼ of Section 6, T. 26 N., R. 11 E., M.D.B.&M.
20.2 acres in SW¼ NW¼ of Section 6, T. 26 N., R. 11 E., M.D.B.&M.
87.7 acres - Total

Estate of C. Frizzie (Map Sheet 2)

Domestic and Industrial in W½ of SW¼ SE¼ of Section 26, T. 26 N., R. 9 E., M.D.B.&M.
and in that portion of NW¼ NE¼ of Section 35, T. 26 N., R. 9 E., M.D.B.&M. lying north of Indian Creek.

St. Clair Gates (Map Sheet 1)

2.7 acres in NE¼ NE¼ of Section 24, T. 26 N., R. 10 E., M.D.B.&M.
5.5 acres in NW¼ NE¼ of Section 24, T. 26 N., R. 10 E., M.D.B.&M.
8.2 acres - Total

J. W. Goodhue (Map Sheet 3)

Mining and power in SW¼ SW¼ of Section 14, T. 25 N., R. 11 E., M.D.B.&M.

Gulf Red Cedar Co., Inc. (Map Sheet 1)

Industrial in SE¼ SW¼ of Section 27, T. 27 N., R. 9 E., M.D.B.&M.
and NE¼ NW¼ of Section 34, T. 27 N., R. 9 E., M.D.B.&M.

T. L. Hannon and H. S. Hannon (Map Sheet 1)

12.1 acres in NE¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
37.6 acres in NW¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
0.5 acre in NE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
0.5 acre in SE¼ SE¼ of Section 32, T. 27 N., R. 10 E., M.D.B.&M.
7.2 acres in SW¼ SE¼ of Section 32, T. 27 N., R. 10 E., M.D.B.&M.
0.5 acres in SE¼ SW¼ of Section 32, T. 27 N., R. 10 E., M.D.B.&M.
58.4 acres - Total (Hickerson Springs)

T. L. Hannon and H. S. Hannon (Cont'd.) (Map Sheet 2)

12.0 acres in SE¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
18.0 acres in SW¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
24.7 acres in NE¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
24.1 acres in NW¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
78.8 acres - Total

J. A. Hardgrave and L. E. Hardgrave (Map Sheet 2)

1.0 acre in SE¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
29.0 acres in SW¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
6.4 acres in NW¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
37.3 acres in NE¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
10.9 acres in SE¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
12.0 acres in NW¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
8.0 acres in SE¼ NW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
3.2 acres in SW¼ NW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
25.0 acres in NE¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
16.5 acres in SE¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
1.6 acres in SW¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
25.7 acres in NW¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
11.1 acres in NE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
12.0 acres in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
199.7 acres - Total

J. H. Hayes (Map Sheet 4)

* 3.4 acres in SE¼ SW¼ of Section 15, T. 24 N., R. 14 E., M.D.B.&M.
16.9 acres in SW¼ SW¼ of Section 15, T. 24 N., R. 14 E., M.D.B.&M.
22.3 acres in SE¼ SE¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
14.3 acres in SW¼ SE¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
4.6 acres in SE¼ SW¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
33.8 acres in NE¼ NE¼ of Section 21, T. 24 N., R. 14 E., M.D.B.&M.
7.4 acres in SE¼ NE¼ of Section 21, T. 24 N., R. 14 E., M.D.B.&M.
7.9 acres in NW¼ NE¼ of Section 21, T. 24 N., R. 14 E., M.D.B.&M.
2.0 acres in NE¼ NW¼ of Section 21, T. 24 N., R. 14 E., M.D.B.&M.
* 5.6 acres in SW¼ NE¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
* 1.8 acres in NE¼ SE¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
24.5 acres in SE¼ SE¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
23.6 acres in SW¼ SE¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
32.6 acres in NW¼ SE¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
21.0 acres in NE¼ SW¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
30.0 acres in NE¼ NW¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
39.5 acres in SE¼ NW¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
25.0 acres in SW¼ NW¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 22, T. 24 N., R. 14 E., M.D.B.&M.
* 1.2 acres in SW¼ SW¼ of Section 23, T. 24 N., R. 14 E., M.D.B.&M.
9.2 acres in SE¼ NW¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
18.4 acres in SW¼ NW¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.

* Denotes irrigated land outside of property line

J. H. Hayes (Cont'd.) (Map Sheet 4)

7.6 acres in NW¼ NW¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
* 4.2 acres in NE¼ NE¼ of Section 27, T. 24 N., R. 14 E., M.D.B.&M.
396.8 acres - Total (Dotta Canyon)

* Denotes irrigated land outside of property line

16.0 acres in SW¼ SW¼ of Section 25, T. 24 N., R. 14 E.,M.D.B.&M.
* 16.8 acres in NW¼ SW¼ of Section 25, T. 24 N., R. 14 E., M.D.B.&M.
9.0 acres in SW¼ NE¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
27.3 acres in NE¼ SE¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
28.1 acres in SE¼ SE¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
* 1.6 acres in SW¼ SE¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
21.5 acres in NW¼ SE¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
0.8 acre in NE¼ SW¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
19.6 acres in SE¼ NW¼ of Section 26, T. 24 N., R. 14 E., M.D.B.&M.
* 1.9 acres in NE¼ NE¼ of Section 35, T. 24 N., R. 14 E., M.D.B.&M.
* 4.3 acres in NW¼ NW¼ of Section 36, T. 24 N., R. 14 E., M.D.B.&M.
146.9 acres - Total (Subirrigated)

* Denotes irrigated land outside of property line.

A. Hedrick (Map Sheet 2)

6.9 acres in NE¼ NW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
2.0 acres in SE¼ NW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
8.9 acres - Total (Overflow)

Helen L. Hollingsworth (Map Sheet 1)

20.3 acres in SW¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
21.2 acres in NW¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
0.8 acre in NW¼ SE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
16.2 acres in NE¼ SW¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
23.3 acres in NE¼ NW¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
39.3 acres in SE¼ NW¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
18.5 acres in SW¼ NW¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
2.9 acres in SW¼ SE¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
3.0 acres in SE¼ SW¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
145.5 acres - Total

W. M. Hosken (Map Sheet 1)

14.3 acres in NE¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in SE¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
7.7 acres in SW¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
39.0 acres in NW¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
19.4 acres in NE¼ NE¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
1.2 acres in SE¼ NE¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
0.5 acres in NE¼ NE¼ of Section 35, T. 27 N., R. 10 E., M.D.B.&M.

W. M. Hosken (Cont'd.) (Map Sheet 1)

21.0 acres in SE¼ NE¼ of Section 35, T. 27 N., R. 10 E., M.D.B.&M.
6.4 acres in SW¼ NE¼ of Section 35, T. 27 N., R. 10 E., M.D.B.&M.
1.0 acres in NW¼ NE¼ of Section 35, T. 27 N., R. 10 E., M.D.B.&M.
23.3 acres in NE¼ SE¼ of Section 35, T. 27 N., R. 10 E., M.D.B.&M.
18.8 acres in SE¼ SE¼ of Section 35, T. 27 N., R. 10 E., M.D.B.&M.
2.2 acres in SE¼ SW¼ of Section 36, T. 27 N., R. 10 E., M.D.B.&M.
1.6 acres in SW¼ NW¼ of Section 36, T. 27 N., R. 10 E., M.D.B.&M.
22.5 acres in NW¼ SW¼ of Section 36, T. 27 N., R. 10 E., M.D.B.&M.
39.1 acres in SW¼ SW¼ of Section 36, T. 27 N., R. 10 E., M.D.B.&M.
219.0 acres - Total

The Hosselkus Co. (Map Sheet 3)

5.6 acres in NE¼ SE¼ of Section 8, T. 25 N., R. 11 E., M.D.B.&M.
22.9 acres in SE¼ SE¼ of Section 8, T. 25 N., R. 11 E., M.D.B.&M.
5.5 acres in SW¼ SE¼ of Section 8, T. 25 N., R. 11 E., M.D.B.&M.
7.2 acres in NW¼ SE¼ of Section 8, T. 25 N., R. 11 E., M.D.B.&M.
1.3 acres in NE¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
11.2 acres in SW¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
22.4 acres in NW¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
0.2 acre in NW¼ NW¼ of Section 16, T. 25 N., R. 11 E., M.D.B.&M.
17.0 acres in NE¼ NE¼ of Section 17, T. 25 N., R. 11 E., M.D.B.&M.
3.5 acres in NW¼ NE¼ of Section 17, T. 25 N., R. 11 E., M.D.B.&M.
96.8 acres - Total (Little Grizzly Creek)

2.8 acres in NE¼ SE¼ of Section 8, T. 25 N., R. 11 E., M.D.B.&M.
1.4 acres in NE¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
9.5 acres in NW¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
8.0 acres in NE¼ NW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
17.7 acres in SE¼ NW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
7.1 acres in SW¼ NW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
0.3 acres in NW¼ NW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
46.8 acres - Total (Hosselkus Creek)

29.7 acres in NE¼ SE¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
17.1 acres in SE¼ SE¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
10.1 acres in SW¼ SE¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
12.8 acres in NW¼ SE¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
8.0 acres in NE¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
13.2 acres in SE¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
2.2 acres in SW¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
0.6 acre in NW¼ SW¼ of Section 9, T. 25 N., R. 11 E., M.D.B.&M.
3.2 acres in SE¼ SE¼ of Section 10, T. 25 N., R. 11 E., M.D.B.&M.
21.3 acres in SW¼ SE¼ of Section 10, T. 25 N., R. 11 E., M.D.B.&M.
5.6 acres in SE¼ SW¼ of Section 10, T. 25 N., R. 11 E., M.D.B.&M.
14.4 acres in SW¼ SW¼ of Section 10, T. 25 N., R. 11 E., M.D.B.&M.
8.4 acres in NW¼ SW¼ of Section 10, T. 25 N., R. 11 E., M.D.B.&M.
16.4 acres in NE¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
5.6 acres in SE¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
22.9 acres in SW¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.

The Hosselkus Co. (Cont'd.) (Map Sheet 3)

40.0 acres in NW¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
36.5 acres in NE¼ NW¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
* 2.9 acres in SE¼ NW¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
14.1 acres in NW¼ NW¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
6.7 acres in NE¼ NE¼ of Section 16, T. 25 N., R. 11 E., M.D.B.&M.
291.7 acres - Total (Ward Creek)

* Denotes irrigated land outside of property line.

Estate of J. L. Humphrey (Map Sheet 3)

1.5 acres in SE¼ SE¼ of Section 22, T. 26 N., R. 14 E., M.D.B.&M.
2.8 acres in SW¼ SW¼ of Section 23, T. 26 N., R. 14 E., M.D.B.&M.
8.0 acres in NE¼ NW¼ of Section 26, T. 26 N., R. 14 E., M.D.B.&M.
2.4 acres in SE¼ NW¼ of Section 26, T. 26 N., R. 14 E., M.D.B.&M.
14.5 acres in NW¼ NW¼ of Section 26, T. 26 N., R. 14 E., M.D.B.&M.
3.6 acres in NE¼ NE¼ of Section 27, T. 26 N., R. 14 E., M.D.B.&M.
32.8 acres - Total

Chico Jim (Map Sheet 1)

7.8 acres in SW¼ NW¼ of Section 4, T. 26 N., R. 10 E., M.D.B.&M.
3.7 acres in NW¼ NW¼ of Section 4, T. 26 N., R. 10 E., M.D.B.&M.
11.5 acres - Total (Springs)

10.8 acres in SW¼ NW¼ of Section 4, T. 26 N., R. 10 E., M.D.B.&M.
10.8 acres - Total (Overflow)

Dora Johnson (Map Sheet 1)

1.0 acre in SW¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
14.6 acres in NE¼ NE¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
2.4 acres in NW¼ NE¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
18.0 acres - Total (Foreman Ravine)

6.2 acres in SE¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
3.8 acres in SW¼ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NE¼ NE¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
5.8 acres in SW¼ NE¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
26.5 acres in NW¼ NE¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in NE¼ NW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
43.9 acres - Total (Subirrigated)

Lee Johnson (Map Sheet 2)

14.4 acres in NE¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
6.6 acres in NW¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
11.2 acres in SW¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.

Lee Johnson (Cont'd.) (Map Sheet 2)

3.2 acres in NE¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
39.0 acres in SE¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
9.0 acres in NW¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
39.0 acres in NE¼ NW¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
13.7 acres in SE¼ NW¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
29.3 acres in SW¼ NW¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 28, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
36.7 acres in SE¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
1.8 acres in SW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
6.9 acres in NW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
370.8 acres - Total

Earl R. Kauffman (Map Sheet 1)

2.6 acres in SW¼ SE¼ of Section 3, T. 26 N., R 9 E., M.D.B.&M.
2.6 acres - Total

Tyron Kelley heirs (Map Sheet 2)

4.3 acres in NE¼ SW¼ of Section 24, T. 26 N., R. 9 E., M.D.B.&M.
4.6 acres in SE¼ SW¼ of Section 24, T. 26 N., R. 9 E., M.D.B.&M.
8.9 acres - Total

S. A. Manning (Map Sheet 2)

Domestic in the NW¼ SE¼ of Section 25, T. 26 N., R. 9 E., M.D.B.&M.

E. T. Kuntzler and Edna M. Kuntzler (Map Sheet 1)

0.3 acre in NW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
8.8 acres in SW¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
35.5 acres in NE¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
37.3 acres in SE¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
17.7 acres in SW¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
17.5 acres in NW¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
1.1 acres in NE¼ SE¼ of Section 2, T. 26 N., R. 9 E., M.D.B.&M.
4.3 acres in SE¼ SE¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
2.9 acres in SW¼ SE¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
125.4 acres - Total

Alma Landon (Map Sheet 1)

4.4 acres in NE¼ SW¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M.
3.6 acres in SE¼ NW¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M.
8.0 acres - Total

Mary B. Lawson (Map Sheet 1)

1.2 acres in SE¼ SW¼ of Section 4, T. 26 N., R. 10 E., M.D.B.&M.
29.7 acres in SW¼ SW¼ of Section 4, T. 26 N., R. 10 E., M.D.B.&M.
10.5 acres in NW¼ SW¼ of Section 4, T. 26 N., R. 10 E., M.D.B.&M.
7.2 acres in NW¼ SE¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
10.9 acres in NE¼ SW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
10.4 acres in NE¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
22.0 acres in SE¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
15.4 acres in NW¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
107.3 acres - Total (Overflow)

C. H. Leggett (Map Sheet 1)

12.9 acres in SW¼ NE¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
12.9 acres - Total (Overflow)

James L. Martin (Map Sheet 1)

1.4 acres in SE¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
11.7 acres in SW¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
22.3 acres in SE¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
27.6 acres in SW¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
15.0 acres in SE¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
2.4 acres in SW¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
36.0 acres in NE¼ NE¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
7.3 acres in SE¼ NE¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
25.1 acres in NW¼ NE¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
34.0 acres in NE¼ NW¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
2.0 acres in NW¼ NW¼ of Section 7, T. 26 N., R. 10 E., M.D.B.&M.
29.0 acres in NE¼ NW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
29.5 acres in SE¼ NW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
38.4 acres in SW¼ NW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
2.4 acres in SW¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acres in NW¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
0.5 acre in NE¼ SW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
8.4 acres in NW¼ SW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
334.0 acres - Total

William F. Masters (Map Sheet 2)

* 1.2 acres in SE¼ SW¼ of Section 1, T. 25 N., R. 10 E., M.D.B.&M.
17.1 acres in SW¼ SW¼ of Section 1, T. 25 N., R. 10 E., M.D.B.&M.
20.1 acres in NW¼ SW¼ of Section 1, T. 25 N., R. 10 E., M.D.B.&M.
* 3.4 acres in Lot 4 of Section 1, T. 25 N., R. 10 E., M.D.B.&M.
*12.5 acres in Lot 1 of Section 2, T. 25 N., R. 10 E., M.D.B.&M.
7.0 acres in NE¼ SE¼ of Section 2, T. 25 N., R. 10 E., M.D.B.&M.
* 3.2 acres in SE¼ SE¼ of Section 2, T. 25 N., R. 10 E., M.D.B.&M.
1.8 acres in SE¼ SW¼ of Section 35, T. 26 N., R. 10 E., M.D.B.&M.
66.3 acres - Total

*Denotes irrigated land outside of property line.

Frank H. McIntosh (Map Sheet 1)

8.4 acres in SW¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
12.8 acres in NW¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
9.7 acres in SW¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in SE¼ NE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in SW¼ NE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
17.7 acres in SE¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
7.6 acres in SW¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
31.5 acres in NW¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
167.1 acres - Total

Tony Miller and Vivian Miller (Map Sheet 1)

1.0 acre in NE¼ NE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
35.3 acre in SE¼ NE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
7.2 acres in NW¼ NE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
35.3 acres in NE¼ SE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
32.9 acres in NW¼ SE¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
32.1 acres in NE¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
2.4 acres in SW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
24.1 acres in NW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
4.8 acres in NE¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
23.0 acres in SE¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
5.3 acres in NW¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
5.6 acres in SW¼ NW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
249.0 acres - Total

H. A. Morel (Map Sheet 1)

11.9 acres in SW¼ SW¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
2.2 acres in NW¼ SW¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
10.4 acres in SE¼ SE¼ of Section 3, T. 26 N., R. 10 E., M.D.B.&M.
24.5 acres - Total

H. C. Neer (Map Sheet 2)

0.9 acre in NE¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
24.1 acres in SE¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in SW¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
16.4 acres in NW¼ SW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
7.3 acres in SE¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
17.5 acres in SW¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
7.5 acres in NW¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
4.4 acres in NE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NW¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in NE¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
118.1 acres - Total

Irene Northrop (Map Sheet 1)

20.0 acres in SW¼ NE¼ of Section 26, T. 27 N., R. 9 E., M.D.B.&M.
20.0 acres in NE¼ SW¼ of Section 26, T. 27 N., R. 9 E., M.D.B.&M.
30.0 acres in SE¼ NW¼ of Section 26, T. 27 N., R. 9 E., M.D.B.&M.
70.0 acres - Total (Application 10,672, Permit 6175)

George Nye and Ruth Nye (Map Sheet 1)

5.1 acres in SW¼ NE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
5.1 acres - Total

S. S. Openshaw and Fay Openshaw,
Gerald Openshaw and Phyllis Openshaw, and
E. M. Openshaw and Dorothy Openshaw. (Map Sheet 2)

1.6 acres in SW¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
15.3 acres in NE¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
20.3 acres in NW¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
26.2 acres in NE¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
25.4 acres in SE¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
4.8 acres in NW¼ SE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
0.7 acre in NE¼ SW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
11.3 acres in NE¼ NW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
29.3 acres in SE¼ NW¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
19.3 acres in SW¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
10.9 acres in NW¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
27.4 acres in SW¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
23.5 acres in NW¼ SE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
35.4 acres in NE¼ NW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in NW¼ NW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
5.5 acres in SW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
31.8 acres in NW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
20.7 acres in NW¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
27.6 acres in NE¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
13.1 acres in NE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
693.4 acres - Total (Indian Creek)

17.7 acres in SW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
16.9 acres in NW¼ SE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
22.2 acres in NE¼ SW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
22.1 acres in NW¼ SW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
21.5 acres in SE¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
19.3 acres in SW¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.

S. S. Openshaw, et al. (Cont'd.) (Map Sheet 2)

18.5 acres in SE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
12.5 acres in NE¼ SE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
150.7 acres - Total (Hough Creek)

14.5 acres in SW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acres in NW¼ NE¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
12.4 acres in NE¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
18.5 acres in SE¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
20.7 acres in SW¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
19.3 acres in NW¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B.&M.
16.9 acres in NE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in SE¼ NE¼ of Section 30, T. 26 N., R. 10 E., M.D.B.&M.
119.0 acres - Total (Subirrigated)

George F. Osmeyer (Map Sheet 2)

6.2 acres in NW¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
6.2 acres - Total

W. B. Perry, R. L. Perry and Susie Perry, and
Ivy Mae Heald (Map Sheet 1)

19.9 acres in SW¼ SE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
13.1 acres in NW¼ SE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
27.7 acres in NE¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
25.5 acres in SE¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
13.7 acres in SE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
11.0 acres in NE¼ NW¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
16.0 acres in NW¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
126.9 acres - Total (Wolf Creek)

0.2 acres in NE¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
8.0 acres in SE¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
12.8 acres in SW¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
0.3 acres in NW¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
13.6 acres in NE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
13.9 acres in SE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
48.8 acres - Total (Springs)

32.0 acres in SE¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
27.2 acres in SW¼ NE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
20.1 acres in SW¼ SE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
26.9 acres in NW¼ SE¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in SE¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
8.0 acres in SW¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
23.0 acres in NW¼ NE¼ of Section 8, T. 26 N., R. 10 E., M.D.B.&M.
2.5 acres in NE¼ SW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.

W. B. Perry, et al (Cont'd.) (Map Sheet 1)

1.2 acres in NW¼ SW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
13.2 acres in SE¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
36.9 acres in SW¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
24.6 acres in NW¼ NW¼ of Section 9, T. 26 N., R. 10 E., M.D.B.&M.
358.9 acres - Total (Overflow)

Arthur Peter (Map Sheet 1)

14.6 acres in SE¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
22.7 acres in SW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
5.5 acres in NE¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
28.8 acres in SW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
36.8 acres in NW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acres in NE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
12.1 acres in SE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
11.3 acres in SW¼ NE¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
24.7 acres in NW¼ NE¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
25.5 acres in NE¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
33.5 acres in SE¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
5.2 acres in SW¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
* 5.6 acres in NW¼ SW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
226.9 acres - Total (Lights Creek)

2.8 acres in SW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
3.4 acres in SW¼ NE¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
8.1 acres in NW¼ NE¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
14.3 acres - Total (Peter Creek and Springs)

* Denotes irrigated land outside of property line.

James R. Peter (Map Sheet 1)

10.0 acres in SE¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
21.0 acres in NE¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
5.6 acres in SE¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
7.4 acres in SW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
0.3 acre in NW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
44.3 acres - Total (Lights Creek)

13.6 acres in NE¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
33.7 acres in SE¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
3.8 acres in NE¼ NE¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NE¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
13.2 acres in SE¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
13.6 acres in SW¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
24.1 acres in NW¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
* 1.1 acres in NE¼ NW¼ of Section 18, T. 26 N., R. 11 E., M.D.B.&M.
6.1 acres in NW¼ NW¼ of Section 18, T. 26 N., R. 11 E., M.D.B.&M.
109.8 acres - Total (Peter Creek)

* Denotes irrigated land outside of property line.

James R. Peter (Cont'd.) (Map Sheet 1)

0.4 acres in SE¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
26.4 acres in SW¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
8.8 acres in NW¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
6.4 acres in SW¼ NW¼ of Section 7, T. 26 N., R. 11 E., M.D.B.&M.
5.9 acres in NW¼ NW¼ of Section 18, T. 26 N., R. 11 E., M.D.B.&M.
47.9 acres - Total (Subirrigated)

Plumas Mining Company (Walker Mine) (Map Sheet 3)

Domestic and mining purposes in NE¼ NE¼ of Section 7, T. 24 N., R. 12 E., M.D.B.&M.

Fred Prasun (Map Sheet 1)

6.0 acres in SW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
6.0 acres - Total (Springs)

Frank H. Pratt (Map Sheet 3)

8.8 acres in E½ of Lot 1 of Section 6, T. 25 N., R. 12 E., M.D.B.&M.
8.8 acres - Total

W. S. Quigley and Icie A. Quigley (Map Sheet 1)

2.9 acres in SW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
15.8 acres in SE¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
27.6 acres in SW¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
22.6 acres in SE¼ SE¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
20.9 acres in NE¼ NE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
12.1 acres in SW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
22.5 acres in NW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
24.5 acres in SE¼ NW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
18.5 acres in SW¼ NW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
247.4 acres - Total (Upper Ranch)

18.5 acres in SE¼ NE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
23.3 acres in NE¼ SE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
2.7 acres in SW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
2.2 acres in NW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
38.4 acres in NE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
8.8 acres in SE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
2.6 acres in SW¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
39.6 acres in NW¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
15.5 acres in SE¼ NW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
21.5 acres in SW¼ NW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
173.1 acres - Total (Middle Ranch)

W. S. Quigley and Icie A. Quigley (Cont'd.) (Map Sheet 1)

8.2 acres in NE¼ SE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
33.4 acres in SE¼ SE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
0.2 acre in SW¼ SE¼ of Section 11, T. 26 N., R. 10 E., M.D.B.&M.
17.9 acres in SE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
37.3 acres in SW¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
0.4 acre in NW¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B.&M.
4.8 acres in NE¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
3.8 acres in NW¼ NW¼ of Section 13, T. 26 N., R. 10 E., M.D.B.&M.
106.0 acres - Total (Lower Ranch)

(Map Sheet 3)

5.3 acres in SE¼ SE¼ of Section 23, T. 27 N., R. 12 E., M.D.B.&M.
4.0 acres in SW¼ SE¼ of Section 23, T. 27 N., R. 12 E., M.D.B.&M.
4.0 acres in NE¼ SW¼ of Section 23, T. 27 N., R. 12 E., M.D.B.&M.
5.3 acres in NW¼ SW¼ of Section 23, T. 27 N., R. 12 E., M.D.B.&M.
* 2.0 acres in SE¼ NW¼ of Section 23, T. 27 N., R. 12 E., M.D.B.&M.
* 4.0 acres in SW¼ NW¼ of Section 23, T. 27 N., R. 12 E., M.D.B.&M.
24.6 acres - Total (Antelope Valley)

* Denotes irrigated land outside of property line.

Rio De Oro, Inc. (Map Sheet 2)

1.0 acres in NE¼ NE¼ of Section 9, T. 25 N., R. 9 E., M.D.B.&M.
3.0 acres in NW¼ NE¼ of Section 9, T. 25 N., R. 9 E., M.D.B.&M.
4.0 acres - Total

J. L. Robinson and Elizabeth E. Robinson (Map Sheet 3)

13.8 acres in Lot 3 of Section 1, T. 25 N., R. 11 E., M.D.B.&M.
31.2 acres in Lot 4 of Section 1, T. 25 N., R. 11 E., M.D.B.&M.
21.8 acres in NW¼ SW¼ of Section 1, T. 25 N., R. 11 E., M.D.B.&M.
16.1 acres in Lot 1 of Section 2, T. 25 N., R. 11 E., M.D.B.&M.
36.7 acres in NE¼ SE¼ of Section 2, T. 25 N., R. 11 E., M.D.B.&M.
25.1 acres in SW¼ SE¼ of Section 2, T. 25 N., R. 11 E., M.D.B.&M.
14.7 acres in NW¼ SE¼ of Section 2, T. 25 N., R. 11 E., M.D.B.&M.
36.1 acres in SE¼ SW¼ of Section 2, T. 25 N., R. 11 E., M.D.B.&M.
23.3 acres in SW¼ SW¼ of Section 2, T. 25 N., R. 11 E., M.D.B.&M.
8.0 acres in NE¼ NW¼ of Section 10, T. 25 N., R. 11 E., M.D.B.&M.
22.5 acres in NW¼ NW¼ of Section 11, T. 25 N., R. 11 E., M.D.B.&M.
3.4 acres in NE¼ SE¼ of Section 36, T. 26 N., R. 11 E., M.D.B.&M.
* 3.1 acres in SE¼ SE¼ of Section 36, T. 26 N., R. 11 E., M.D.B.&M.
20.7 acres in SW¼ SE¼ of Section 36, T. 26 N., R. 11 E., M.D.B.&M.
11.4 acres in NW¼ SE¼ of Section 36, T. 26 N., R. 11 E., M.D.B.&M.
27.1 acres in SE¼ SW¼ of Section 36, T. 26 N., R. 11 E., M.D.B.&M.
5.9 acres in SW¼ SW¼ of Section 36, T. 26 N., R. 11 E., M.D.B.&M.
320.9 acres - Total

*Denotes irrigated land outside of property line.

Clark C. Rowland (Map Sheet 4)

4.0 acres in SW¼ NW¼ of Section 17, T. 24 N., R. 15 E., M.D.B.&M.
0.1 acres in NW¼ NW¼ of Section 17, T. 24 N., R. 15 E., M.D.B.&M.
12.0 acres in NE¼ NE¼ of Section 18, T. 24 N., R. 15 E., M.D.B.&M.
* 4.0 acres in SE¼ NE¼ of Section 18, T. 24 N., R. 15 E., M.D.B.&M.
1.6 acres in NW¼ NE¼ of Section 18, T. 24 N., R. 15 E., M.D.B.&M.
21.7 acres - Total (Dixie Creek)

* Denotes irrigated land outside of property line.

Josie Roy (Map Sheet 1)

3.2 acres in SW¼ SE¼ of Section 32, T. 27 N., R. 10 E., M.D.B.&M.
1.7 acres in NE¼ SW¼ of Section 32, T. 27 N., R. 10 E., M.D.B.&M.
8.3 acres in SE¼ SW¼ of Section 32, T. 27 N., R. 10 E., M.D.B.&M.
13.2 acres - Total (Hickerson Springs)

Eugene Ryan (Map Sheet 1)

0.8 acres in NW¼ NE¼ of Section 10, T. 26 N., R. 9 E., M.D.B.&M.
0.8 acres - Total

Setzer Box Co. (Map Sheet 1)

Industrial in NE¼ NW¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M. and SE¼ SW¼ of Section 34, T. 27 N., R. 9 E., M.D.B.&M.

Edna A. Short (Map Sheet 1)

9.6 acres in SE¼ SE¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M.
4.4 acres in SW¼ SE¼ of Section 3, T. 26 N., R. 9 E., M.D.B.&M.
14.0 acres - Total

F. R. Smith (Map Sheet 1)

6.5 acres in SW¼ NE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
19.6 acres in SE¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
30.5 acres in SW¼ NW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
0.5 acre in NE¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
28.9 acres in NW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
21.8 acres in NE¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
9.1 acres in NW¼ SW¼ of Section 1, T. 26 N., R. 10 E., M.D.B.&M.
* 2.1 acres in SE¼ NE¼ of Section 2, T. 26 N., R. 10 E., M.D.B.&M.
119.0 acres - Total

* Denotes irrigated land outside of property line.

W. A. Snyder & Sons Co. (Map Sheet 2)

21.2 acres in SE¼ NE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
14.2 acres in SW¼ NE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
38.8 acres in NE¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
24.9 acres in SE¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
5.8 acres in SW¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
19.3 acres in NW¼ SE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
6.4 acres in SE¼ NW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
12.9 acres in NE¼ SW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
2.7 acres in SE¼ SW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
26.9 acres in SW¼ SW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
12.5 acres in SW¼ NW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
10.1 acres in NW¼ NW¼ of Section 26, T. 26 N., R. 10 E., M.D.B.&M.
2.8 acres in NE¼ NE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
238.5 acres - Total (Indian Creek)

0.3 acre in NW¼ SE¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
15.0 acres in NE¼ SW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
0.4 acre in SE¼ NW¼ of Section 23, T. 26 N., R. 10 E., M.D.B.&M.
15.7 acres - Total (Snyder Spring)

Mary Sobrero heirs (Map Sheet 3)

2.4 acres in NW¼ SW¼ of Section 14, T. 25 N., R. 11 E., M.D.B.&M.
2.3 acres in NE¼ SE¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
* 0.6 acre in SE¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B.&M.
5.3 acres - Total

* Denotes irrigated land outside of property line.

Paul Sobrero (Map Sheet 2)

5.6 acres in NE¼ NE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
33.7 acres in SE¼ NE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
38.2 acres in SW¼ NE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
2.6 acres in NW¼ NE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
33.6 acres in NE¼ SE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
28.8 acres in NW¼ SE¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NE¼ SW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
0.4 acre in NE¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in SE¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
144.5 acres - Total

Arthur Sorsoli (Map Sheet 2)

Domestic, municipal and industrial water supply in Section 24, T. 26 N., R. 9 E., M.D.B.&M. and W½ W½ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.

Neal O. Stark (Map Sheet 1)

6.3 acres in NE¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
5.9 acres in NW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
6.6 acres in NE¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
17.0 acres in SE¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
31.0 acres in SW¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
15.9 acres in NW¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B.&M.
82.7 acres - Total

4.4 acres in NE¼ SW¼ of Section 25, T. 27 N., R. 9 E., M.D.B.&M.
6.8 acres in SE¼ SW¼ of Section 25, T. 27 N., R. 9 E., M.D.B.&M.
2.0 acres in SW¼ SW¼ of Section 25, T. 27 N., R. 9 E., M.D.B.&M.
17.1 acres in NW¼ SW¼ of Section 25, T. 27 N., R. 9 E., M.D.B.&M.
30.3 acres - Total (Peck Valley)

D. R. Strong (Map Sheet 2)

4.3 acres in SW¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
12.2 acres in SE¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
12.0 acres in SW¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
10.6 acres in NE¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
2.2 acres in NW¼ NE¼ of Section 19, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in NW¼ NW¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
57.4 acres - Total

3.6 acres in SW¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
10.9 acres in SE¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
14.5 acres - Total (Overflow)

Estate of I. Taddei (Map Sheet 1)

6.6 acres in SW¼ SE¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
0.3 acres in NW¼ SE¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
1.0 acres in NE¼ SW¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
10.8 acres in SE¼ SW¼ of Section 35, T. 27 N., R. 9 E., M.D.B.&M.
18.7 acres - Total

C. H. Taresh and J. C. Taresh (Map Sheet 2)

Industrial in SW¼ NE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
Industrial in NW¼ NE¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
Industrial in SE¼ NW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.
Industrial in NE¼ NW¼ of Section 22, T. 26 N., R. 10 E., M.D.B.&M.

J. C. Taresh (Map Sheet 1)

0.5 acre in NW¼ NW¼ of Section 24, T. 26 N., R. 10 E., M.D.B.&M.
0.5

John Taresh (Map Sheet 2)

16.1 acres in SW¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
8.3 acres in NW¼ SW¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
8.8 acres in NE¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
21.7 acres in SE¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
0.9 acre in SW¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
55.8 acres - Total

20.5 acres in SW¼ NE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
10.2 acres in NE¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
1.6 acres in SE¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
15.1 acres in SW¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
38.0 acres in NW¼ SE¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
5.4 acres in SE¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in NE¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
26.7 acres in SE¼ NW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
133.6 acres - Total (Overflow)

4.2 acres in NE¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
1.0 acre in NW¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
6.4 acres in SE¼ NW¼ of Section 18, T. 26 N., R. 10 E., M.D.B.&M.
11.6 acres - Total (Springs)

Albert A. Toscani, Ernest J. Toscani, Chester M. Toscani and Arthur F. Toscani (Map Sheet 2)

3.2 acres in SW¼ SE¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
4.0 acres in NW¼ SE¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
36.6 acres in NE¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
24.1 acres in SE¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
17.7 acres in SW¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
38.8 acres in NW¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
13.3 acres in SE¼ NW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
27.8 acres in SW¼ NW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
6.1 acres in NE¼ NE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
38.7 acres in SW¼ NE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
13.5 acres in NW¼ NE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
8.3 acres in SE¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in SW¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
32.9 acres in NW¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
345.6 acres - Total

United States of America in trust, Indian Service (Map Sheet 1)

4.8 acres in SW¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
8.5 acres in NW¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
23.0 acres in NE¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
17.0 acres in SE¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
13.3 acres in SE¼ NW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
66.6 acres - Total

United States Department of Agriculture
Plumas National Forest (Map Sheet 3)

8.0 acres in SW¼ NE¼ of Section 15, T. 27 N., R. 12 E., M.D.B.&M.
4.0 acres in NW¼ NE¼ of Section 15, T. 27 N., R. 12 E., M.D.B.&M.
12.0 acres - Total (Boulder Creek)

A. E. Viacava (Map Sheet 2)

7.4 acres in SE¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
11.5 acres in SW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
10.9 acres in NE¼ NW¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
4.8 acres in NW¼ NW¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
34.6 acres - Total

Westover Co. (Map Sheet 4)

29.4 acres in NE¼ NE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
32.1 acres in NW¼ NE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
13.0 acres in SE¼ SE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
2.4 acres in SW¼ SE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
39.0 acres in NW¼ SE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
2.4 acres in NE¼ SW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
39.5 acres in NE¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
38.0 acres in SE¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
7.4 acres in SW¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
10.4 acres in NW¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
20.0 acres in SW¼ NE¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
3.5 acres in NW¼ NE¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
6.4 acres in NW¼ SE¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
30.5 acres in SE¼ SW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
26.5 acres in SW¼ SW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
10.1 acres in NE¼ NW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
20.0 acres in NW¼ NW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
3.7 acres in NE¼ NW¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
614.3 acres - Total (Dixie Creek)

12.0 acres in SE¼ SE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
3.2 acres in SW¼ SE¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
13.5 acres in SW¼ SW¼ of Section 9, T. 24 N., R. 14 E., M.D.B.&M.
10.4 acres in NE¼ NW¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
1.3 acres in SE¼ NW¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
0.1 acres in SW¼ NW¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
18.0 acres in NW¼ NW¼ of Section 16, T. 24 N., R. 14 E., M.D.B.&M.
58.5 acres - Total (Clover Creek)

Westover Co. (Cont'd.) (Map Sheet 4)

8.8 acres in SE¼ SE¼ of Section 7, T. 24 N., R. 14 E., M.D.B.&M.
14.3 acres in SW¼ SW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
1.4 acres in NW¼ SW¼ of Section 8, T. 24 N., R. 14 E., M.D.B.&M.
24.5 acres - Total (Springs)

Wesley T. Wheeler, et al. (Map Sheet 1)

17.0 acres in NE¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
8.0 acres in SE¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
11.7 acres in SW¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
27.6 acres in NW¼ SW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
9.6 acres in SE¼ NW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
20.4 acres in SW¼ NW¼ of Section 6, T. 26 N., R. 10 E., M.D.B.&M.
94.3 acres - Total

L. E. Wheelock (Map Sheet 1)

6.4 acres in SE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
16.1 acres in SW¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
12.9 acres in NE¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
13.1 acres in SE¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
27.2 acres in NW¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
19.9 acres in SW¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
95.6 acres - Total

3.0 acres in SE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
2.4 acres in SW¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B.&M.
5.4 acres - Total (Springs)

L. E. Wheelock and Nellie Wheelock (Map Sheet 2)

4.3 acres in SW¼ SW¼ of Section 16, T. 26 N., R. 10 E., M.D.B.&M.
31.7 acres in SE¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
28.2 acres in SW¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
0.6 acre in NW¼ SE¼ of Section 17, T. 26 N., R. 10 E., M.D.B.&M.
35.4 acres in NE¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
17.7 acres in NW¼ NE¼ of Section 20, T. 26 N., R. 10 E., M.D.B.&M.
5.6 acres in NW¼ NW¼ of Section 21, T. 26 N., R. 10 E., M.D.B.&M.
123.5 acres - Total

G. L. Vanderhoeven and Arah R. Vanderhoeven (Map Sheet 2)

1.0 acres in SE¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
38.6 acres in SW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
4.8 acres in NW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
33.3 acres in NE¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
31.3 acres in SE¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.

G. L. Vanderhoeven and Arah R. Vanderhoeven (Cont'd.) (Map Sheet 2)

4.8 acres in SW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
30.9 acres in NW¼ SW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
5.6 acres in SW¼ NW¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
6.8 acres in NW¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
1.2 acres in NE¼ NW¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
158.3 acres - Total

C. E. Young (Map Sheet 2)

Mrs. Beaumont

0.5 acre in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.2 acre in NE¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
0.7 acre - Total

J. E. Cook

4.5 acres in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
0.1 acre in NE¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
4.6 acres - Total

John Sobrero

**0.5 acres in NE¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
0.5 acres - Total

John B. Sobrero

3.6 acres in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
3.6 acres - Total

A. J. Taresh

**1.5 acres in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
1.5 acres - Total

L. L. Wing

0.1 acre in SW¼ SW¼ of Section 26, T. 26 N., R. 10 E., M.D.B.&M.
4.9 acres in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
2.8 acres in NE¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
5.2 acres in NW¼ NW¼ of Section 35, T. 26 N., R. 10 E., M.D.B.&M.
13.0 acres - Total

C. E. Young

1.2 acres in SE¼ SE¼ of Section 27, T. 26 N., R. 10 E., M.D.B.&M.
3.0 acres in NE¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B.&M.
4.2 acres - Total

28.1 acres - Total (Town laterals)
** Sub-irrigated

TABLE 2

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion			
		Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Taylor Lake	1	NE¼ SW¼ Sec. 35 T. 27 N, R 11 E	W¼ Cor. Sec. 35 T 27 N, R 11 E	S 80° E	1480
Boulder Creek	2	SW¼ SE¼ Sec. 10 T 27 N, R 12 E	S¼ Cor. Sec. 10 T 27 N, R 12 E	N 44° E	1400
Antelope North	3	SE¼ NE¼ Sec. 24 T 27 N, R 12 E	E¼ Cor. Sec. 24 T 27 N, R 12 E	N 36° W	1450
Antelope East	4	(NE¼ SE¼ Sec. 24 (T 27 N, R 12 E (NW¼ SE¼ Sec. 24 (T 27 N, R 12 E	E¼ Cor. Sec. 24 T 27 N, R 12 E E¼ Cor. Sec. 24 T 27 N, R 12 E	S 69° W S 83° W	600 1600
Flux Antelope	5	SW¼ NE¼ Sec. 25 T 27 N, R 12 E	E¼ Cor. Sec. 25 T 27 N, R 12 E	N 75° W	2500
Quigley Upper Antelope	6	NE¼ NE¼ Sec. 26 T 27 N, R 12 E	NE Cor. Sec. 26 T 27 N, R 12 E	S 49° W	550
Quigley Antelope Springs	7	NE¼ SW¼ Sec. 23 T 27 N, R 12 E	W¼ Cor. Sec. 23 T 27 N, R 12 E	S 85° E	1850
Humphrey West	8	SE¼ NW¼ Sec. 26 T 26 N, R 14 E	N¼ Cor. Sec. 26 T 26 N, R 14 E	S 25° W	2030
Humphrey East	9	NE¼ NW¼ Sec. 26 T 26 N, R 14 E	N¼ Cor. Sec. 26 T 26 N, R 14 E	S 25° W	1400
Rowland Dixie Creek	10	SW¼ NW¼ Sec. 17 T 24 N, R 15 E	W¼ Cor. Sec. 17 T 24 N, R 15 E	N 45° E	340
Dixie Upper West	11	NE¼ SE¼ Sec. 4 T 24 N, R 14 E	E¼ Cor. Sec. 4 T 24 N, R 14 E	S 89° W	1150
Dixie Upper East	12	NE¼ SE¼ Sec. 4 T 24 N, R 14 E	E¼ Cor. Sec. 4 T 24 N, R 14 E	S 84° W	1140
Dixie Upper Meadow Dam	13	NW¼ NE¼ Sec. 8 T 24 N, R 14 E	N¼ Cor. Sec. 8 T 24 N, R 14 E	S 34° E	1180
Dixie Middle Meadow Dam	14	NE¼ NW¼ Sec. 8 T 24 N, R 14 E	N¼ Cor. Sec. 8 T 24 N, R 14 E	S 6° W	1100
Dixie Lower Meadow Dam	15	NE¼ NW¼ Sec. 8 T 24 N, R 14 E	NW Cor. Sec. 8 T 24 N, R 14 E	S 48° E	1880
Guidici Dixie	16	NW¼ NW¼ Sec. 8 T 24 N, R 14 E	NW Cor. Sec. 8 T 24 N, R 14 E	S 67° E	830
Upper Dotta Neck	17	NW¼ NW¼ Sec. 36 T 24 N, R 14 E	NW Cor. Sec. 36 T 24 N, R 14 E	S 57° E	900
North Spring	18	SW¼ NE¼ Sec. 26 T 24 N, R 14 E	E¼ Cor. Sec. 26 T 24 N, R 14 E	N 76° W	2400

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Clover Upper	19	SE¼ NW¼ Sec. 26 T 24 N, R 14 E	W¼ Cor. Sec. 26 T 24 N, R 14 E	N 76° E	1700
Clover Middle	20	NW¼ NW¼ Sec. 26 T 24 N, R 14 E	NW Cor. Sec. 26 T 24 N, R 14 E	S 16° E	440
Clover North Meadow	21	SE¼ SE¼ Sec. 22 T 24 N, R 14 E	SE Cor. Sec. 22 T 24 N, R 14 E	N 59° W	920
Clover South Meadow	22	SE¼ SE¼ Sec. 22 T 24 N, R 14 E	SE Cor. Sec. 22 T 24 N, R 14 E	N 59° W	1130
Clover Lower	23	SE¼ NW¼ Sec. 22 T 24 N, R 14 E	N¼ Cor. Sec. 22 T 24 N, R 14 E	S 12° W	1800
Spring Channel Upper	24	NW¼ SE¼ Sec. 22 T 24 N, R 14 E	S¼ Cor. Sec. 22 T 24 N, R 14 E	N 3° E	1460
Spring Channel Lower	25	SW¼ NW¼ Sec. 22 T 24 N, R 14 E	W¼ Cor. Sec. 22 T 24 N, R 14 E	N 40° E	1100
Crocker Creek	26	SE¼ NE¼ Sec. 21 T 24 N, R 14 E	E¼ Cor. Sec. 21 T 24 N, R 14 E	N 50° W	1560
Crocker Old Channel	27	NW¼ NE¼ Sec. 21 T 24 N, R 14 E	N¼ Cor. Sec. 21 T 24 N, R 14 E	S 43° E	660
Clover Overflow	28	SW¼ SW¼ Sec. 9 T 24 N, R 14 E	SW Cor. Sec. 9 T 24 N, R 14 E	N 89° E	1140
Guidici Clover	29	SW¼ NW¼ Sec. 8 T 24 N, R 14 E	W¼ Cor. Sec. 8 T 24 N, R 14 E	N 26° E	900
Pratt Upper	30	NE¼ SE¼ Sec. 6 T 25 N, R 12 E	E¼ Cor. Sec. 6 T 25 N, R 12 E	S 2° W	560
Pratt Lower	31	E½ Lot 1 Sec. 6 T 25 N, R 12 E	E¼ Cor. Sec. 6 T 25 N, R 12 E	N 74° W	780
Pratt House	32	E½ Lot 2 Sec. 6 T 25 N, R 12 E	E¼ Cor. Sec. 6 T 25 N, R 12 E	N 35° W	1800
Curnow Upper	33	E½ Lot 2 Sec. 6 T 25 N, R 12 E	E¼ Cor. Sec. 6 T 25 N, R 12 E	N 41° W	1820
Curnow Pasture	34	W½ Lot 2 Sec. 6 T 25 N, R 12 E	E¼ Cor. Sec. 6 T 25 N, R 12 E	N 44° W	2900
Curnow	35	W½ Lot 2 Sec. 6 T 25 N, R 12 E	E¼ Cor. Sec. 6 T 25 N, R 12 E	N 44° W	2930
Robinson	36	NW¼ SW¼ Sec. 32 T 26 N, R 12 E	W¼ Cor. Sec. 32 T 26 N, R 12 E	S 52° E	530

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Evans	37	NE¼ SE¼ Sec. 31 T 26 N, R 12 E	E¼ Cor. Sec. 31 T 26 N, R 12 E	S 50° W	600
Goodhue	38	NW¼ NW¼ Sec. 23 T 25 N, R 11 E	NW Cor. Sec. 23 T 25 N, R 11 E	S 36° E	1500
Sobrero East	39	NW¼ SW¼ Sec. 14 T 25 N, R 11 E	W¼ Cor. Sec. 14 T 25 N, R 11 E	S 6° E	800
Sobrero West	40	NE¼ SE¼ Sec. 15 T 25 N, R 11 E	E¼ Cor. Sec. 15 T 25 N, R 11 E	S 65° W	460
Ward Upper West	41	SE¼ NE¼ Sec. 15 T 25 N, R 11 E	E¼ Cor. Sec. 15 T 25 N, R 11 E	N 78° W	820
Ward Middle West	42	SE¼ NE¼ Sec. 15 T 25 N, R 11 E	E¼ Cor. Sec. 15 T 25 N, R 11 E	N 56° W	1200
Ward East	43	SE¼ NE¼ Sec. 15 T 25 N, R 11 E	E¼ Cor. Sec. 15 T 25 N, R 11 E	N 55° W	1180
Ward Pipe line	44	NW¼ NE¼ Sec. 15 T 25 N, R 11 E	N¼ Cor. Sec. 15 T 25 N, R 11 E	S 7° E	400
Hosselkus	45	NE¼ NW¼ Sec. 9 T 25 N, R 11 E	N¼ Cor. Sec. 9 T 25 N, R 11 E	S 66° W	1250
Walker Flume	46	NW¼ NW¼ Sec. 8 T 24 N, R 12 E	NW Cor. Sec. 8 T 24 N, R 12 E	S 30° E	360
Walker Pipe	47	NW¼ NW¼ Sec. 8 T 24 N, R 12 E	NW Cor. Sec. 8 T 24 N, R 12 E	S 54° E	1130
Grizzly Upper	48	SE¼ SW¼ Sec. 17 T 25 N, R 11 E	S¼ Cor. Sec. 17 T 25 N, R 11 E	N 30° W	550
Grizzly Lower	49	NW¼ NE¼ Sec. 17 T 25 N, R 11 E	N¼ Cor Sec. 17 T 25 N, R 11 E	S 76° E	740
Beacom	50	N½ Lot 9 Sec. 7 T 25 N, R 11 E	W¼ Cor. Sec. 7 T 25 N, R 11 E	S 61½° E	2500
Barnes East	51	SE¼ NW¼ Sec. 12 T 25 N, R 10 E	N¼ Cor. Sec. 12 T 25 N, R 10 E	S 35° W	2000
Barnes West	52	NW¼ NW¼ Sec. 12 T 25 N, R 10 E	NW Cor. Sec. 12 T 25 N, R 10 E	S 22° E	450
Taylorsville	53	SE¼ NE¼ Sec. 11 T 25 N, R 10 E	E¼ Cor. Sec. 11 T 25 N, R 10 E	N 88° W	1300
Mill Race	54	SE¼ SW¼ Sec. 35 T 26 N, R 10 E	S¼ Cor. Sec. 35 T 26 N, R 10 E	N 74° W	900

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Snyder	55	(NW¼ NW¼ Sec. 35 T 26 N, R 10 E	NW Cor. Sec. 35 T 26 N, R 10 E	S 60° E	1200
		(NW¼ NW¼ Sec. 35 T 26 N, R 10 E	NW Cor. Sec. 35 T 26 N, R 10 E	S 71° E	950
Snyder Pump	56	NE¼ NE¼ Sec. 27 T 26 N, R 10 E	NE Cor. Sec. 27 T 26 N, R 10 E	S 44° W	200
Toscani Pump	57	NE¼ SW¼ Sec. 16 T 26 N, R 10 E	S¼ Cor. Sec. 16 T 26 N, R 10 E	N 24° W	1900
Peck and Hayes	58	NW¼ SW¼ Sec. 16 T 26 N, R 10 E	W¼ Cor. Sec. 16 T 26 N, R 10 E	S 83° E	1000
Creek Pump	59	NE¼ NW¼ Sec. 19 T 26 N, R 10 E	N¼ Cor. Sec. 19 T 26 N, R 10 E	S 31° W	1500
Cedar Mill Upper Pump	60	SE¼ SW¼ Sec. 27 T 27 N, R 9 E	S¼ Cor. Sec. 27 T 27 N, R 9 E	N 86° W	700
Cedar Mill Lower Pump	61	NE¼ NW¼ Sec. 34 T 27 N, R 9 E	N¼ Cor. Sec. 34 T 27 N, R 9 E	S 75° W	750
Clark	62	NE¼ NW¼ Sec. 34 T 27 N, R 9 E	N¼ Cor. Sec. 34 T 27 N, R 9 E	S 65° W	780
Setzer	63	NE¼ SW¼ Sec. 34 T 27 N, R 9 E	W¼ Cor. Sec. 34 T 27 N, R 9 E	S 87° E	1870
Round Valley Reservoir	64	NW¼ SW¼ Sec. 15 T 26 N, R 9 E	W¼ Cor. Sec. 15 T 26 N, R 9 E	Due E	1200
Kauffman	65	NW¼ NE¼ Sec. 10 T 26 N, R 9 E	N¼ Cor. Sec. 10 T 26 N, R 9 E	S 21° E	1150
Short and Morel	66	NW¼ NE¼ Sec. 10 T 26 N, R 9 E	N¼ Cor. Sec. 10 T 26 N, R 9 E	S 29° E	1050
Schieser	67	NE¼ SE¼ Sec. 2 T 26 N, R 9 E	E¼ Cor. Sec. 2 T 26 N, R 9 E	S 23° W	850
Forgay and Frederickson	68	NE¼ SE¼ Sec. 2 T 26 N, R 9 E	E¼ Cor. Sec. 2 T 26 N, R 9 E	S 23° W	1000
McIntosh	69	SW¼ SE¼ Sec. 6 T 26 N, R 10 E	S¼ Cor. Sec. 6 T 26 N, R 10 E	N 12° E	1220
Forgay	70	SW¼ SE¼ Sec. 6 T 26 N, R 10 E	S¼ Cor. Sec. 6 T 26 N, R 10 E	N 13° E	1200
McIntosh Lower	71	SE¼ SE¼ Sec. 6 T 26 N, R 10 E	SE Cor. Sec. 6 T 26 N, R 10 E	N 48° W	1150

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Forgay Lower	72	SE¼ SE¼ Sec. 6 T 26 N, R 10 E	SE Cor. Sec. 6 T 26 N, R 10 E	N 49° W	1130
Wheelock	73	SW¼ SW¼ Sec. 5 T 26 N, R 10 E	SW Cor. Sec. 5 T 26 N, R 10 E	N 45° E	630
Perry	74	SE¼ SW¼ Sec. 5 T 26 N, R 10 E	S¼ Cor. Sec. 5 T 26 N, R 10 E	N 83° W	820
Northrop	75	SE¼ NW¼ Sec. 26 T 27 N, R 9 E	N¼ Cor. Sec. 26 T 27 N, R 9 E	S 36½° W	1660
Pecks Valley	76	(NW¼ SW¼ Sec. 25 T 27 N, R 9 E	W¼ Cor. Sec. 25 T 27 N, R 9 E	S 59° E	1530
		(NE¼ SW¼ Sec. 25 T 27 N, R 9 E	W¼ Cor. Sec. 25 T 27 N, R 9 E	S 80° E	1740
Taddei	77	SE¼ SW¼ Sec. 35 T 27 N, R 9 E	S¼ Cor. Sec. 35 T 27 N, R 9 E	N 14° W	1100
Williams Creek	78	(NW¼ NE¼ Sec. 2 T 26 N, R 9 E	N¼ Cor. Sec. 2 T 26 N, R 9 E	S 54° E	900
		(NE¼ NE¼ Sec. 2 T 26 N, R 9 E	NE Cor. Sec. 2 T 26 N, R 9 E	S 39° W	1200
Gott Williams Creek	79	NW¼ NW¼ Sec. 1 T 26 N, R 9 E	NW Cor. Sec. 1 T 26 N, R 9 E	S 24° E	1120
Hosken Cooks Creek	80	NW¼ NE¼ Sec. 35 T 27 N, R 10 E	N¼ Cor. Sec. 35 T 27 N, R 10 E	S 72° E	200
Smith Cooks Creek	81	SE¼ NE¼ Sec. 2 T 26 N, R 10 E	E¼ Cor. Sec. 2 T 26 N, R 10 E	N 14° W	900
Burns Cooks Creek	82	NE¼ SE¼ Sec. 2 T 26 N, R 10 E	E¼ Cor. Sec. 2 T 26 N, R 10 E	S 18½° W	400
Quigley Pasture	83	SE¼ NE¼ Sec. 11 T 26 N, R 10 E	E¼ Cor. Sec. 11 T 26 N, R 10 E	N 33° W	1000
Quigley Meadow	84	NE¼ SE¼ Sec. 11 T 26 N, R 10 E	E¼ Cor. Sec. 11 T 26 N, R 10 E	S 12° W	1200
Cliff Cooks Creek	85	NE¼ NE¼ Sec. 14 T 26 N, R 10 E	NE Cor. Sec. 14 T 26 N, R 10 E	S 76° W	540
Downey Upper	86	Lot 7 Sec. 8 T 27 N, R 11 E	N¼ Cor. Sec. 8 T 27 N, R 11 E	S 5° E	1450
Downey Lower	87	Lot 7 Sec. 8 T 27 N, R 11 E	N¼ Cor. Sec. 8 T 27 N, R 11 E	S 4° E	2500
Freeman and Bates	88	NE¼ NW¼ Sec. 31 T 27 N, R 11 E	N¼ Cor. Sec. 31 T 27 N, R 11 E	S 82° W	1230

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Defanti and Smith	89	NE¼ SW¼ Sec. 31 T 27 N, R 11 E	W½ Cor. Sec. 31 T 27 N, R 11 E	S 73° E	1850
Burns	90	NW¼ SE¼ Sec. 1 T 26 N, R 10 E	S¼ Cor. Sec. 1 T 26 N, R 10 E	N 30° E	2050
Quigley Upper	91	SW¼ SE¼ Sec. 1 T 26 N, R 10 E	S¼ Cor. Sec. 1 T 26 N, R 10 E	N 44° E	1200
Quigley Middle	92	NW¼ NE¼ Sec. 12 T 26 N, R 10 E	N¼ Cor. Sec. 12 T 26 N, R 10 E	S 28° E	1500
Peter Upper	93	NW¼ NE¼ Sec. 12 T 26 N, R 10 E	N¼ Cor. Sec. 12 T 26 N, R 10 E	S 28½° E	1540
Quigley and Cliff	94	SE¼ SW¼ Sec. 12 T 26 N, R 10 E	S¼ Cor. Sec. 12 T 26 N, R 10 E	N 22° W	950
Peter Lower	95	SE¼ SW¼ Sec. 12 T 26 N, R 10 E	S¼ Cor. Sec. 12 T 26 N, R 10 E	N 20° W	920
Peter Creek Upper	96	NW¼ NW¼ Sec. 17 T 26 N, R 11 E	NW Cor. Sec. 17 T 26 N, R 11 E	S 82° E	340
Peter Creek Barn	97	SW¼ SE¼ Sec. 7 T 26 N, R 11 E	S¼ Cor. Sec. 7 T 26 N, R 11 E	N 54° E	540
Peter Creek Upper Field	98	SE¼ SW¼ Sec. 7 T 26 N, R 11 E	S¼ Cor. Sec. 7 T 26 N, R 11 E	N 71° W	850
Peter Creek Lower Field	99	(NW¼ NW¼ Sec. 18 (T 26 N, R 11 E	NW Cor. Sec 18 T 26 N, R 11 E	S 41° E	580
		(SE¼ SE¼ Sec. 12 (T 26 N, R 10 E	SE Cor. Sec. 12 T 26 N, R 10 E	N 86° W	850
A. Peter	100	SW¼ SE¼ Sec. 12 T 26 N, R 10 E	S¼ Cor. Sec. 12 T 26 N, R 10 E	N 74° E	1200
Gates	101	NE¼ NE¼ Sec. 24 T 26 N, R 10 E	NE Cor. Sec. 24 T 26 N, R 10 E	S 13° W	1140
Foreman Spring	102	NE¼ SW¼ Sec. 24 T 26 N, R 10 E	W¼ Cor. Sec. 24 T 26 N, R 10 E	S 89° E	2240
Road Dam	103	NE¼ NE¼ Sec. 23 T 26 N, R 10 E	NE Cor. Sec. 23 T 26 N, R 10 E	S 57° W	800
Taresh Mill	104	SE¼ NW¼ Sec. 22 T 26 N, R 10 E	W¼ Cor. Sec. 22 T 26 N, R 10 E	N 71° E	2300
Clover Valley Ranch Spring	105	SE¼ SE¼ Sec. 7 T 24 N, R 14 E	SE Cor. Sec. 7 T 24 N, R 14 E	N 32° W	900

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Davis Spring	106	SE¼ NE¼ Sec. 11 T 25 N, R 11 E	NE Cor. Sec. 11 T 25 N, R 11 E	S 19° W	1500
Clark Spring	107	NW¼ SE¼ Sec. 34 T 26 N, R 10 E	E¼ Cor. Sec. 34 T 26 N, R 10 E	S 82° W	1550
Hotel Pipe	108	NW¼ SE¼ Sec. 34 T 26 N, R 10 E	E¼ Cor. Sec. 34 T 26 N, R 10 E	S 80° W	1940
		NW¼ SE¼ Sec. 34 T 26 N, R 10 E	E¼ Cor. Sec. 34 T 26 N, R 10 E	S 82° W	1850
Clark Pipe	109	NW¼ SE¼ Sec. 34 T 26 N, R 10 E	E¼ Cor. Sec. 34 T 26 N, R 10 E	S 83½° W	1700
Viacava Upper	110	NW¼ NW¼ Sec. 34 T 26 N, R 10 E	NW Cor. Sec. 34 T 26 N, R 10 E	S 45° E	1650
Viacava Middle	111	NW¼ NW¼ Sec. 34 T 26 N, R 10 E	NW Cor. Sec. 34 T 26 N, R 10 E	S 68° E	1230
Viacava Lower	112	SW¼ SW¼ Sec. 27 T 26 N, R 10 E	SW Cor. Sec. 27 T 26 N, R 10 E	N 68° W	1100
Hough Creek Upper	113	NW¼ SW¼ Sec. 29 T 26 N, R 10 E	SW Cor. Sec. 29 T 26 N, R 10 E	N 30° E	1960
Hough Creek Lower	114	SW¼ NW¼ Sec. 29 T 26 N, R 10 E	W¼ Cor. Sec. 29 T 26 N, R 10 E	N 20° E	750
Cardoza Spring	115	SW¼ NW¼ Sec. 30 T 26 N, R 10 E	W¼ Cor. Sec. 30 T 26 N, R 10 E	N 84° E	1200
Manning Spring	116	NW¼ SE¼ Sec. 25 T 26 N, R 9 E	S¼ Cor. Sec. 25 T 26 N, R 9 E	N 8° E	2100
Avrit Pipe	117	NE¼ NE¼ Sec. 35 T 26 N, R 9 E	NE Cor. Sec. 35 T 26 N, R 9 E	S 1° W	600
Frizzie	118	NW¼ SE¼ Sec. 26 T 26 N, R 9 E	S¼ Cor. Sec. 26 T 26 N, R 9 E	N 1° E	2200
Indian Falls	119	NE¼ SE¼ Sec. 3 T 25 N, R 9 E	SE Cor. Sec. 3 T 25 N, R 9 E	N 13° W	1400
Jackson Springs	120	NW¼ SE¼ Sec. 3 T 25 N, R 9 E	S¼ Cor. Sec. 3 T 25 N, R 9 E	N 24° E	1900
Lawson	121	SW¼ SW¼ Sec. 3 T 25 N, R 9 E	SW Cor. Sec. 3 T 25 N, R 9 E	N 18° E	440
Oak Flat	122	SE¼ SW¼ Sec. 4 T 25 N, R 9 E.	S¼ Cor. Sec. 4 T 25 N, R 9 E	N 37° W	500

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Crescent	123	SE¼ NW¼ Sec. 24 T 26 N, R 9 E	N¼ Cor. Sec. 24 T 26 N, R 9 E	S 27° W	1800
Taresh Springs	124	(SE¼ NW¼ Sec. 18 (T 26 N, R 10 E	W¼ Cor. Sec. 18 T 26 N, R 10 E	N 86° E	1400
		(NE¼ SW¼ Sec. 18 (T 26 N, R 10 E	W¼ Cor. Sec. 18 T 26 N, R 10 E	S 72° E	1400
Hamblin Spring	125	SW¼ SW¼ Sec. 1 T 26 N, R 9 E	SW Cor. Sec. 1 T 26 N, R 9 E	N 73° E	840
Morel Spring	126	SE¼ SE¼ Sec. 3 T 26 N, R 9 E	SE Cor. Sec. 3 T 26 N, R 9 E	N 15° W	850
Short Spring	127	NW¼ NE¼ Sec. 10 T 26 N, R 9 E	N¼ Cor. Sec. 10 T 26 N, R 9 E	S 81° E	720
Benson Spring	128	NW¼ SE¼ Sec. 3 T 26 N, R 9 E	S¼ Cor. Sec. 3 T 26 N, R 9 E	N 33° E	1800
Buckeye Ravine	129	SE¼ NW¼ Sec. 10 T 26 N, R 9 E	W¼ Cor. Sec. 10 T 26 N, R 9 E	N 65° E	1950
Clark Ravine	130	SE¼ SE¼ Sec. 4 T 26 N, R 9 E	SE Cor. Sec. 4 T 26 N, R 9 E	N 37° W	1450
Schieser Spring	131	SW¼ SW¼ Sec. 31 T 27 N, R 10 E	SW Cor. Sec. 31 T 27 N, R 10 E	N 13° E	1100
Perry Springs	132	NE¼ NW¼ Sec. 5 T 26 N, R 10 E	N¼ Cor. Sec. 5 T 26 N, R 10 E	S 33° W	350
Hickerson West Springs	133	NW¼ SE¼ Sec. 32 T 27 N, R 10 E	S¼ Cor. Sec. 32 T 27 N, R 10 E	N 5° E	1840
Hickerson East Springs	134	(SE¼ SE¼ Sec. 32 (T 27 N, R 10 E	SE Cor. Sec. 32 T 27 N, R 10 E	N 44° W	1240
		(SW¼ SE¼ Sec. 32 (T 27 N, R 10 E	S¼ Cor. Sec. 32 T 27 N, R 10 E.	(N 21° E (N 41° E (N 48° E	1300 1180 1350
Chico Springs	135	(NW¼ NW¼ Sec. 4 (T 26 N, R 10 E	NW Cor. Sec. 4 T 26 N, R 10 E	S 17° E	700
		(SW¼ NW¼ Sec. 4 (T 26 N, R 10 E	W¼ Cor. Sec. 4 T 26 N, R 10 E	N 68° E	1050
Leggett Springs	136	SW¼ NE¼ Sec. 9 T 26 N, R 10 E	E¼ Cor. Sec. 9 T 26 N, R 10 E	N 77° W	1800
Snyder Spring	137	NW¼ SE¼ Sec. 23 T 26 N, R 10 E	S¼ Cor. Sec. 23 T 26 N, R 10 E	N 2° E	2300

TABLE 2 (Cont'd.)

POINTS OF DIVERSION FROM INDIAN CREEK

AND ITS TRIBUTARIES

Name of Diversion System	Number of Diversion on Division of Water Resources Map	Approximate Location of Point of Diversion: Legal Sub-Division in which diversion occurs M.D.B.&M.	Reference corner for distance and bearing M.D.B.&M.	Bearing from reference corner	Distance in feet from reference corner
Cliff Springs	138	SE¼ NE¼ Sec. 14 T 26 N, R 10 E N½ SE¼ Sec. 14 T 26 N, R 10 E	—	—	—
Hosken Springs	139	SE¼ SW¼ Sec. 36 T 27 N, R 10 E	SE Cor. Sec. 36 T 27 N, R 10 E	N 66° W	1400
Bates Spring	140	SE¼ NE¼ Sec. 12 T 26 N, R 10 E	E¼ Cor. Sec. 12 T 26 N, R 10 E	N 6° W	1280
A. Peter Springs	141	(NW¼ NE¼ Sec. 13 (T 26 N, R 10 E	N½ Cor. Sec. 13 T 26 N, R 10 E	S 50° E	1400
		(SW¼ NE¼ Sec. 13 (T 26 N, R 10 E	N¼ Cor. Sec. 13 T 26 N, R 10 E	S 37° E	2050
Gates Springs	142	NE¼ NE¼ Sec. 24 T 26 N, R 10 E	NE Cor. Sec. 24 T 26 N, R 10 E	S 67° W	1250
School Spring	143	SE¼ SW¼ Sec. 35 T 26 N, R 11 E	S¼ Cor. Sec. 35 T 26 N, R 11 E	N 83° W	1100

TABLE 3

SUMMARY OF DIVERSION SYSTEMS DIVERTING
FROM INDIAN CREEK AND ITS TRIBUTARIES
(Listed alphabetically by Streams)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		INDIAN CREEK AND GENESEE VALLEY		
Austin A. Avrit	117	Avrit	Domestic	
W. J. Beacom and C. G. Beacom	50	Beacom	18.0	18.0
Samuel F. Brown and Hazel Brown	54	Mill Race (Home Ranch)	230.6	230.6
	54	Mill Race (Stampfli Ranch)	249.2	249.2
Samuel F. Brown and Hazel Brown and Fletcher L. Brown	54	Mill Race (R.R.L. Co. Ranch)	298.1	298.1
J. E. Cardoza and Marian Cardoza	54	Mill Race	196.3	
	115	Cardoza Spring	99.1	
	113	Hough Creek Upper	94.4	389.8
G. R. Clark	107	Clark Spring	Domestic	
	109	Clark Pipe		
George L. Curnow	33	Curnow Upper		
	34	Curnow Pasture	5.3	
	35	Curnow	91.3	96.6
John Davis and Charles Davis	106	Davis Spring	3.4	3.4
Dawn Institute of Science and Art	119	Indian Falls		
	120	Jackson Springs	Domestic and resort	
Fred H. Dill	58	Peck and Hayes	32.4	
	--	Overflow	9.7	42.1
W. H. Dolphin	54	Mill Race	153.4	153.4
Mrs. M. L. Donnenwirth	108	Hotel Pipe	0.9	0.9
P. R. Evans	36	Robinson	14.1	14.1
	37	Evans	Domestic & Industrial	

TABLE 3 (Cont'd.)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated On Ranch
Estate of C. Frizzie	118	Frizzie	Domestic & Industrial	
J. W. Goodhue	38	Goodhue	Mining and Power	
Annie Gorbet		Overflow	46.5	46.5
T. L. Hannon and H. S. Hannon	54	Mill Race	78.8	78.8
J. A. Hardgrave and L. E. Hardgrave	54	Mill Race	199.7	199.7
A. Hedrick	--	Overflow	8.9	8.9
The Hosselkus Co.	41	Ward Upper West		
	42	Ward Middle West	124.5	
	43	Ward East	72.6	
	44	Ward Pipeline	94.6	
	45	Hosselkus	46.8	
	48	Grizzly Upper		
	49	Grizzly Lower	96.8	435.3
Lee Johnson	54	Mill Race	370.8	370.8
Tyron Kelley heirs	123	Crescent	8.9	8.9
S. A. Manning	116	Manning Spring	Domestic	
William F. Masters	51	Barnes East	16.1	
	52	Barnes West	50.2	66.3
H. C. Neer	54	Mill Race	118.1	118.1
S. S. Openshaw and	54	Mill Race	693.4	
	59	Creek Pump		
Fay Openshaw;	113	Hough Creek Upper	269.7	963.1
	114	Hough Creek Lower		
Gerald Openshaw and Phyllis Openshaw; and E. M. Openshaw and Dorothy Openshaw				
George F. Osmeyer	54	Mill Race	6.2	6.2
Plumas Mining Company	46	Walker Flume		
	47	Walker Pipe	Domestic and Mining	

TABLE 3 (CONT'D.)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
Frank H. Pratt	30	Pratt Upper)	8.7	
	31	Pratt Lower)		
	32	Pratt House	0.1	8.8
Rio De Oro, Inc.	121	Lawson	Domestic and Mining	
	122	Oak Flat	4.0	4.0
J. L. Robinson and Elizabeth E. Robinson	1	Taylor Lake	Storage	
	36	Robinson	320.9	320.9
	143	School Spring	Domestic	
W. A. Snyder & Sons Co.	55	Snyder)	238.5	
	56	Snyder Pump)		
	137	Snyder Spring	15.7	254.2
Mary Sobrero heirs	39	Sobrero East		
	40	Sobrero West	5.3	5.3
Paul Sobrero	54	Mill Race	144.5	144.5
Arthur Sorsoli	123	Crescent	Domestic Municipal Industrial	
D. R. Strong	58	Peck and Hayes	57.4	
	--	Overflow	14.5	71.9
John Taresh	54	Mill Race (drainage)	55.8	
	124	Taresh Springs	11.6	
	---	Overflow	133.6	201.0
Albert A. Toscani, Ernest J. Toscani, Chester M. Toscani and Arthur F. Toscani	54	Mill Race	345.6	345.6
	57	Toscani Pump		
A. E. Viacava	110	Viacava Upper	34.6	34.6
	111	Viacava Middle		
	112	Viacava Lower		
G. L. Vanderhoeven and Arah R. Vanderhoeven	54	Mill Race	158.3	158.3
L. E. Wheelock and Nellie Wheelock	54	Mill Race	123.5	123.5
C. E. Young	54	Mill Race	28.1	28.1

TABLE 3 (CONT'D.)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
James G. Young, William G. Young, George W. Young, Mrs. Hazel Dolphin	53	Taylorsville	Domestic	
TOTAL - INDIAN CREEK AND GENESEE VALLEY				5499.5
		WOLF CREEK AND TRIBUTARIES		
J. H. Barrie	66	Short and Morel	0.8	0.8
Maurice A. Bates and Marion A. Flood, et al	125	Hamblin Spring	Domestic	
Ira Benson	128	Benson Spring	8.8	8.8
Bidwell Water Company	64	Round Valley Reservoir	Public Utility	
	129	Buckeye Ravine		
Samuel F. Brown and Hazel Brown	--	Overflow	215.0	215.0
Gordon L. Byers	130	Clark Ravine	Domestic	
John F. Coffin and Helen H. Coffin, and Harry D. Coffin and Oleta Coffin	--	Overflow	63.5	63.5
C. G. Frederickson and Helen V. Frederickson	68	Forgay-Frederickson	193.6	193.6
	125	Hamblin Spring		
Gulf Red Cedar Co., Inc.	60	Cedar Mill Upper Pump		
	61	Cedar Mill Lower Pump	Industrial	
T. L. Hannon and H. S. Hannon	134	Hickerson East Springs	58.4	58.4
Helen L. Hollingsworth	62	Clark	145.5	145.5
Chico Jim	135	Chico Springs	11.5	
	--	Overflow	10.8	22.3
Earl R. Kauffman	65	Kauffman	2.6	2.6

TABLE 3 (CONT'D.)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
E. T. Kuntzler and Edna M. Kuntzler	62	Clark		
	78	Williams Creek	125.4	125.4
Alma Landon	130	Clark Ravine	8.0	8.0
Mary B. Lawson	---	Overflow	107.3	107.3
C. H. Leggett	136	Leggett Springs		
	---	Overflow	12.9	12.9
James L. Martin	68	Forgay and Frederickson	193.6	
	70	Forgay	140.4	334.0
	72	Forgay Lower		
Frank H. McIntosh	69	McIntosh	167.1	167.1
	71	McIntosh Lower		
Tony Miller and Vivian Miller	67	Schieser	249.0	249.0
	131	Schieser Spring	Domestic	
H. A. Morel	66	Short and Morel	24.5	24.5
	126	Morel Spring		
Irene Northrop	75	Northrop	70.0	70.0
George Nye and Ruth Nye	67	Schieser	5.1	5.1
W. B. Perry;	69	McIntosh)		
	73	Wheelock)		
R. L. Perry and		)		
Susie Perry; and	74	Perry)	126.9	
Ivy May Heald	132	Perry Springs)		
	133	Hickerson West Springs)		
	134	Hickerson East Springs)	48.8	
	---	Overflow	358.9	534.6
Fred Prasun	125	Hamblin Spring	6.0	6.0
Josie Roy	133	Hickerson West Springs	13.2	13.2
Eugene Ryan	65	Kauffman	0.8	0.8
Setzer Box Co.	62	Clark	Industrial	
	63	Setzer		

TABLE 3 (CONT'D.)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
Edna A. Short	66	Short and Morel	14.0	14.0
	127	Short Spring		
Neal O. Stark	67	Schieser)	82.7	
	79	Gott Williams Creek)		
	76	Pecks Valley	30.3	113.0
Estate of I. Taddei	77	Taddei	18.7	18.7
United States of America, in trust, Indian Service	67	Schieser	66.6	66.6
Wesley T. Wheeler, et al.	67	Schieser	94.3	94.3
	131	Schieser Spring		
L. E. Wheelock	69	McIntosh)		
	73	Wheelock)	95.6	
	132	Perry Springs	5.4	101.0
TOTAL - WOLF CREEK AND TRIBUTARIES				2776.0
		LIGHTS CREEK AND TRIBUTARIES		
E. R. Bates	88	Freeman and Bates	87.4	
	140	Bates Spring	0.4	87.8
Wilbur Burns	82	Burns Cooks Creek	27.7	
	90	Burns	100.3	128.0
Walter E. Cliff	94	Quigley and Cliff	134.0	
	85	Cliff Cooks Creek	58.2	
	138	Cliff Springs	42.8	235.0
Ralph Defanti	89	Defanti and Smith	150.0	150.0
A. J. Downey and D. W. Downey	86	Downey Power	Power	
	87	Downey Lower	Domestic	
James T. Freeman	88	Freeman and Bates	87.7	87.7

TABLE 3 (CONT'D.)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
St. Clair Gates	101	Gates	8.2	8.2
	142	Gates Spring		
W. M. Hosken	80	Hosken Cooks Creek	219.0	219.0
	139	Hosken Springs		
Dora Johnson	102	Foreman Spring	3.0	
	103	Road dam	15.0	
	---	Subirrigated	43.9	61.9
Arthur Peter	93	Peter Upper	100.0	
	95	Peter Lower	126.9	
	100	A. Peter	14.3	241.2
	141	A. Peter Springs		
James R. Peter	93	Peter Upper	44.3	
	96	Peter Creek Upper)		
	97	Peter Creek Barn)	109.8	
	98	Peter Creek Upper field)		
	99	Peter Creek Lower field)		
	--	Subirrigated	47.9	202.0
W. S. Quigley and Icie A. Quigley	91	Quigley Upper	247.4	247.4
	92	Quigley Middle	152.2	
	83	Quigley Pasture	20.9	173.1
	94	Quigley and Cliff	69.0	
	84	Quigley Meadow	37.0	106.0
F. R. Smith	81	Smith Cooks Creek	38.2	
	89	Defanti and Smith	80.8	119.0
C. H. Taresh and J. C. Taresh	104	Taresh Mill	Industrial	
J. C. Taresh	102	Foreman Spring	0.5	0.5
TOTAL - LIGHTS CREEK AND TRIBUTARIES				2066.8
UPPER TRIBUTARY AREA				
Clover Valley Lumber Co.	3	Antelope North	42.6	42.6
	4	Antelope East		
R. C. Conklin	16	Guidici Dixie)	266.0	266.0
	29	Guidici Clover)		

TABLE 3 (CONT'D.)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
F. W. Flux	5	Flux Antelope	29.5	29.5
J. H. Hayes	(17	Upper Dotta Neck	118.7	
	(18	North Spring	28.2	
	(19	Clover Upper	33.8	
	(20	Clover Middle)		
	(21	Clover North Meadow)		
	(22	Clover South Meadow)	112.5	
	(23	Clover Lower		
	(24	Spring Channel Upper)		
	(25	Spring Channel Lower)	203.9	
	(26	Crocker Creek	17.7	
	(27	Crocker Old Channel	28.9	543.7
Estate of J. L. Humphrey	8	Humphrey West	32.8	32.8
	9	Humphrey East		
W. S. Quigley and Icie A. Quigley	6	Quigley Antelope Upper	24.6	24.6
	7	Quigley Antelope Springs		
Clark C. Rowland	10	Rowland Dixie Creek	21.7	21.7
Westover Co.	11	Dixie Upper West)		
	12	Dixie Upper East)		
	13	Dixie Upper Meadow Dam)		
	14	Dixie Middle Meadow Dam)		
	15	Dixie Lower Meadow Dam)	614.3	
	28	Clover Overflow	58.5	
	105	Clover Valley Ranch Spring	24.5	697.3
United States Department of Agriculture Plumas National Forest	2	Boulder Creek	12.0	12.0
TOTAL - UPPER TRIBUTARY AREA				1670.2
GRAND TOTAL - INDIAN CREEK AND ALL TRIBUTARIES				12012.5

TABLE 4

SUMMARY OF DESCRIPTION OF DIVERSION SYSTEMS

Number of Diversion	Owner or Owners	Description of Diversion System: Type Dam	Size of Dam Feet	Head Gate	Conduit: Type	Size Feet	Length Miles	Capacity c.f.s.	Total Acres Irrigated
1	J. L. and Elizabeth E. Robinson	Earth & Rock Fill	160x12	6" pipe with Screw Gate	Storage Reservoir Capacity 200 Acre Feet				
2	U.S. Department of Agriculture	Temporary gravel	8x1	None	Earth Ditch	2.0x 0.5	0.4	1.0	12.0
3	Clover Valley Lumber Co.	None	Not in use	None	Earth Ditch	Not in	repair	- Unknown	42.6
4	Clover Valley Lumber Co.	None	Not in use	None	Earth Ditch	Not in	repair	- Unknown	
5	F. W. Flux	None	Not in use	None	Channel overflow		—	—	29.5
6	W. S. and Icie A. Quigley	None	Not in use	None	Channel overflow		—	—	24.6
7	W. S. and Icie A. Quigley	None	Not in use	None	Earth Ditch	1.5x 0.5	0.20	0.5	
8	Estate of J. L. Humphrey	None	Not in use	None	Earth Ditch	1.5x 0.5	0.40	1.0	32.8
9	Estate of J. L. Humphrey	Wood-box	4x3	None	Earth Ditch	1.5x 0.5	0.30	1.0	
10	Clark C. Rowland	None	Not in use	None	Earth Ditch	1.5x 0.5	0.20	0.5	21.7
11	Westover Co.	Concrete	40x8	None	Earth Ditch	4.0x 1.0	1.5	4.0	614.3
12	Westover Co.	Concrete	40x8	24" Pipe with Screw Gate	Earth Ditch	4.0x 1.0	1.0	10.0	
13	Westover Co.	Rubble Concrete	16x4	None	Earth Ditch	1.5x 0.5	.2	1.0	
14	Westover Co.	Rubble Concrete	16x4	None	Earth Ditch	1.5x 0.5	.1	1.0	
15	Westover Co.	Timber	8x4	None	Channel overflow		—	—	
16	R. C. Conklin	Wood-box	2x3	3x3	Earth Ditch	3.0x 2.0	1.3	5.0	266.0
17	J. H. Hayes	None	Not in use	None	Channel overflow		—	—	118.7

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System: Type Dam	Size of Dam Feet	Head Gate	Conduit: Type	Size Feet	Length Miles	Capacity c.f.s.	Total Acres Irrigated
18	J. H. Hayes	None	None	None	Seepage		—	—	28.2
19	J. H. Hayes	Timber	Destroyed	None	Earth Ditches	3.0x 1.0	.2	2.0	33.8
20	J. H. Hayes	Timber	Destroyed	None	Earth Ditches	3.0x 0.5 3.0x 0.5	.5 .3	3.0 3.0	112.5
21	J. H. Hayes	Sod	6x1	None	Earth Ditches	3.0x 0.5	.3	2.0	
22	J. H. Hayes	Sod	6x1	None	Earth Ditches	3.0x 0.5	.3	2.0	
23	J. H. Hayes	Timber	Destroyed	None	Earth Ditch	3.0x 1.5	.5	3.0	
24	J. H. Hayes	Sod	10x1.0	None	Earth Ditch	2.0x.5	.3	1.5	203.9
25	J. H. Hayes	Board & Sod	6x2	None	Earth Ditch	3.0x 0.5	.7	2.0	
26	J. H. Hayes	Gravel	6x1	None	Earth Ditch	3.0x 0.5	.2	2.0	17.7
27	J. H. Hayes	Timber	8x4	None	Earth Ditches	2.0x 0.5	.2	1.0	28.9
28	Westover Co.	None	None	None	Channel overflow			—	58.5
29	R. C. Conklin	Timber	16x8	None	Wooden Flume Earth Ditch	4.0x 1.0	.2	4.0	(Div. 16)
30	Frank H. Pratt	Loose rock	20x1	None	Earth Ditch	1.0x 0.5	.2	1.0	8.7
31	Frank H. Pratt	Gravel	10x1	Woodbox	Earth Ditch	1.5x 0.5	.2	1.0	
32	Frank H. Pratt	Loose rock	10x1	None	Earth Ditch	0.5x 0.2	.1	.2	0.1
33	George L. Curnow	None	Destroyed	None	Earth Ditch	1.0x 0.5	.2	1.0	5.3
34	George L. Curnow	Loose rock	20x3	None	Earth Ditch	2.0x 0.5	.1	2.0	
35	George L. Curnow	Loose rock	20x3	None	Earth Ditch	3.0x 1.0	.6	4.0	91.3
36	J. L. and Elizabeth E. Robinson	Concrete	30x2	22" pipe with Screw Gate	Steel pipe & Earth Ditch	16" 4.5x 1.5	3.6	10.0	320.0

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System: Type Dam	Size of Dam Feet	Head Gate	Conduit: Type	Size Feet	Length Miles	Capacity c.f.s.	Total Acres Irrigated
37	P. R. Evans	Concrete	28x7	Wood box	Earth Ditch	3.0x 1.0	.2	2.0	14.1
38	J. W. Goodhue	Picket	12x3	None	Earth Ditch	4.0x 1.0	.3	6.0	Mining
39	Mary Sobrero heirs	None	Destroyed	None	Earth Ditch	1.5x 0.5	.1	.5	5.3
40	Mary Sobrero heirs	None	Destroyed	None	Earth Ditch	1.5x 0.5	.1	.5	
41	The Hosselkus Company	Picket	18x2	None	Earth Ditch	3.0x 1.0	.9	6.0	124.5
42	The Hosselkus Company	Concrete	12x6	None	Earth Ditch	3.0x 0.5	.2	3.0	
43	The Hosselkus Company	Concrete	12x6	12" Culvert	Earth Ditches	2.0x 0.5	.7	4.0	72.6
44	The Hosselkus Company	Picket	20x3	16" open pipe	Steel pipe	16"	.9	3.5	94.6
45	The Hosselkus Company	Gravel	10x1.0	None	Earth Ditch	3.5x 0.5	.2	3.0	46.8
46	Plumas Mining Company	Collecting basin		6" open pipe	Steel pipe	6"	.2	1.6	Mining
47	Plumas Mining Company	Collecting basin		2" open pipe	Steel pipe	2"	.2	.2	
48	The Hosselkus Company	Log & rock	24x4	None	Earth Ditch	5.0x 1.0	.8	13.0	96.8
49	The Hosselkus Company	Loose rock	14x1	None	Earth Ditch	3.5x 0.5	.3	4.0	
50	W. J. Beacom & C. G. Beacom	Loose rock	6x0.5	None	Earth Ditch	2.0x 0.5	.3	1.5	18.0
51	William F. Masters	Log & rock	60x4	None	Earth Ditch	3.0x 0.5	.4	1.5	16.1
52	William F. Masters	Log & rock	60x4	Wood box	Earth Ditch	3.0x 0.6	.7	2.0	50.2
53	James G. Young, et al.	Loose rock	10x1	None	Earth Ditch	3.0x 0.5	2.4	2.0	Dom.
54	Samuel F. Brown, et al.	Gravel	100x3	None	Earth Ditch	20x 4.0	1.3	60.0	350.4
55	W. A. Snyder & Sons Co.	Loose rock	150x4	None	Earth Ditch	4.0x 1.0	1.2	5.0	238.5
56	W. A. Snyder & Sons Co.	10 inch Centrifugal pump.			See Diversion 55			4.7	

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System: Type Dam	Size of Dam Feet	Head Gate	Conduit: Type	Size Feet	Length Miles	Capacity c.f.s.	Total Acres Irrigated
57	Albert A. Toscani, et al.	8 Inch Centrifugal Pump			See Diversion 54			3.5	(Div. 54)
58	Fred H. Dill & D. R. Strong	Timber	Destroyed	Concrete	Earth Ditch	4.0x 1.5	1.2	5.0	89.8
59	S. S. Openshaw, et al.	6 Inch Centrifugal Pump			9 Inch Pipe line		.3	2.0	(Div. 54)
60	Gulf Red Cedar Co., Inc.	6 Inch Centrifugal Pump			6 Inch Pipe		.1	2.0	Indus.
61	Gulf Red Cedar Co., Inc.	2 Inch Centrifugal Pump			2 Inch Pipe Line		.1	.2	Indus.
62	E. T. & Edna M. Kuntzler	Timber	14x6	Wood box	Earth Ditch	3.0x 0.5	2.0	4.0	270.9
63	Setzer Box Co.	Picket	25x3'	None	Wood Flume	12" V	.3	.3	Indus.
64	Bidwell Water Company	Earth fill	280x28	8" open pipe	8 inch Pipe Line		3.0	2.0	Munic.
65	Earl R. Kauffman, et al.	Gravel	6x0.5	Wood box	Earth Ditch	1.0x 0.5	.3	.5	3.4
66	H. A. Morel & Edna A. Short	Gravel	8x0.5	None	Earth Ditch	2.0x 0.5	.4	1.0	39.3
67	Tony & Vivian Miller, et al.	Timber	36x12	Wood box	Earth Ditch	4.0x 2.0	.5	8.0	497.7
68	C. G. & Helen V. Frederickson, et al.	Timber	36x12	Wood box	Earth Ditch	4.0x 2.0	1.4	8.0	387.2
69	Frank H. McIntosh	Timber	14x5	Wood box	Earth Ditch	4.0x 1.0	.4	6.0	167.1
70	James L. Martin	Timber	14x5	Wood box	Earth Ditch	4.0x 1.5	.4	8.0	140.4
71	Frank H. McIntosh	Picket	18x3	None	Earth Ditch	2.0x 0.5	.1	3.0	(Div. 69)
72	James L. Martin	Picket	18x3	None	Earth Ditch	2.0x 0.5	.1	3.0	(Div. 70)
73	L. E. Wheelock Board		18x1	None	Earth Ditch	6x1.0	.5	6.0	95.6
74	W. B. Perry, et al.	Wood box	5x3	None	Earth Ditch	3x1.0	.6	3.0	126.9
75	Irene Northrop	None	Not in use	None	Not constructed		—	—	70.0

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System							Total Acres Irrigated
		Type Dam	Size of Dam Feet	Head Gate	Conduit				
					Type	Size Feet	Length Miles	Capacity c.f.s.	
76	Neal O. Stark	Gravel	3x0.5	None	Earth Ditch	2x0.5	.1	2.0	30.3
77	Estate of I. Taddei	None		None	Not constructed		—	—	18.7
78	E. T. & Edna M. Kuntzler	Timber	6x4	None	Earth Ditch	1.0x 0.5	.1	2.0	(Div. 62)
79	Neal O. Stark	Picket	6x1	None	Earth Ditch	3.0x 0.5	.3	3.0	(Div. 67)
80	W. M. Hosken	Gravel	20x0.5	None	Earth Ditch	3.0x 0.5	.9	4.0	219.0
81	F. R. Smith	Concrete	18x8	None	Earth Ditch	3.0x 1.0	.2	2.0	38.2
82	Wilbur Burns	Timber	16x4	None	Earth Ditch	1.0x 0.5	.1	2.0	27.7
83	W. S. Quigley, et ux.	Timber	16x4	None	Earth Ditch	2.0x 0.5	.1	2.0	20.9
84	W. S. Quigley, et ux.	Picket	16x4	None	Earth Ditch	2.0x 0.5	.2	2.0	37.0
85	Walter E. Cliff	Timber	16x4	None	Earth Ditch	2.0x 0.5	.1	4.0	58.2
86	A. J. Downey & D. W. Downey	Timber	30x2	Wood box	Flume	12"x 14"	.2	2.0	Power
87	A. J. Downey & D. W. Downey	Timber	30x3	Wood box	Flume	6"x6"	.1	.1	Dom.
88	James T. Freeman & E. R. Bates	Brush & Gravel	30x1	None	Earth Ditch	4x0.5	1.6	4.0	175.1
89	Ralph Defanti & F. R. Smith	Picket	20x3	None	Earth Ditch	3.0x 1.0	.6	5.5	230.8
90	Wilbur Burns	Timber	20x8	None	Earth Ditch	3.0x 1.0	.1	2.0	100.3
91	W. S. Quigley	Concrete	24x12	Pipe Culvert	Earth Ditch	3.0x .8	.2	5.0	247.4
92	W. S. Quigley	Concrete	24x7	Pickets	Earth Ditch	3.0x 1.0	.3	3.5	152.2
93	James R. Peter & Arthur Peter	Concrete	24x7	Box Culvert	Earth Ditch	3.0x 1.0	.3	7.0	144.3
94	W. S. Quigley & Walter E. Cliff	Concrete	24x7	Pipe Culvert	Earth Ditch	3.0x 1.4	.2	7.0	203.0

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System							Total Acres Irrigated
		Type Dam	Size of Dam Feet	Head Gate	Conduit				
					Type	Size Feet	Length Miles	Capacity c.f.s.	
95	Arthur Peter	Concrete	24x7	Pipe Culvert	Earth Ditch	3.0x 0.8	.1	4.0	126.9
96	James R. Peter	Gravel	6x1	8" Pipe	Earth Ditch	1.0x 0.4	1.0	1.0	157.7
97	James R. Peter	Gravel	6x1	None	Earth Ditch	3.0x 0.5	.3	2.0	
98	James R. Peter	Picket	16x3	None	Earth Ditch	3.0x 0.5	.1	3.0	
99	James R. Peter	Gravel	10x2	4" Pipe	Earth Ditch	1.0x 0.5	.1	.5	
				None	Earth Ditch	2.0x 0.5	.1	.5	
100	Arthur Peter	None	None	None	Earth Ditch	2.0x 0.5	.4	.5	14.3
101	St. Clair Gates	Gravel	6x0.5	None	Earth Ditch	1.5x 0.5	.3	2.0	8.2
102	J. C. Taresh & Dora Johnson	Collecting Ditches		None	Earth Ditch	2.0x 0.5	.3	.5	3.5
103	Dora Johnson, et al.	Timber	Destroyed	None	Earth Ditch	2.0x 0.5	.1	2.0	58.9
104	C. H. Taresh & J. C. Taresh	6" Centrifugal Pump			8 Inch Pipe Line		.1	2.0	Indus.
105	Westover Co.	Collecting Ditch		None	Earth Ditch	1.0x 0.5	.1	.5	24.5
106	John & Charles Davis	None	—	None	Earth Ditch	0.8x 0.4	.3	.3	3.4
107	G. R. Clark	None	—	None	Pipe Line		.3	.05	Dom.
108	Mrs. M. L. Donnenwirth	None	—	None	Pipe Line		.5	.05	0.9
109	G. R. Clark	None	—	None	Pipe Line		.3	.05	Dom.
110	A. E. Viacava	Gravel	6x1	None	Earth Ditch	1.0x 0.5	.1	.5	34.6
111	A. E. Viacava	Wood box	4x2	Wood box	Earth Ditch	1.0x 0.5	.1	.5	
112	A. E. Viacava	Sod	6x1	Wood box	Earth Ditches	1.0x 0.5	.1	1.0	
113	S. S. Openshaw, et al.	Gravel	10x1	None	Earth Ditches	3.0x 1.0	.3	6.0	364.1
114	S. S. Openshaw, et al.	Sod	6x1	None	Earth Ditches	2.0x 1.0	.1	4.0	

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System: Type Dam	Size of Dam Feet	Head Gate	Conduit: Type	Size Feet	Length Miles	Capacity c.f.s.	Total Acres Irrigated
115	J. E. Cardoza, et ux.	Regulating Pond		Wood box	Earth Ditches	2.0x 0.5	.2	1.0	99.1
116	S. A. Manning	Springs		—	Pipe	Line	.1	.01	Dom.
117	Austin A. Avrit	None	—	—	2" Pipe Line		.4	.1	Dom.
118	Estate of C. Frizzie	Not known		—	—	—	—	2.0	Indu.
119	Dawn Institute of Science & Art	Spring	—	—	3" Pipe Line		.9	.3	Re-sort
120	Dawn Institute of Science & Art	Spring	—	—	6" Pipe Line		.3	1.2	
121	Rio De Oro, Inc.	Loose rock	80x1.0	Wood box	Earth Ditch	3.0x 1.5	.4	4.0	Min-ing
122	Rio De Oro, Inc.	Loose rock	10x1.0	Wood box	Earth Ditch	2.0x 0.5	.2	2.0	4.0
123	Arthur Sor-soli, et al.	Gravel	4x1.0	None	Earth Ditch	2.0x 0.5	.2	1.0	8.9
124	John Taresh	None	—	None	Natural Seepage		—	—	11.6
125	Maurice A. Bates, et al.	(Hydraulic Ram (None		— —	1" Pipe Line Earth Ditch	1.0x 0.5	.1	.01 .3	6.0
126	H. A. Morel	Underground drain		None	Earth Ditch	1.0x 0.5	.1	.3	(Div. 66)
127	Edna A. Short	Collecting Ditch		None	Earth Ditch	1.0x 0.5	.3	.4	(Div. 66)
128	Ira Benson	Earth basin	60x 15x4	None	2" Pipe Line		.2	.1	8.8
129	Bidwell Water Company	Wood box	3.5x4	None	8" Pipe Line		.8	1.0	Munic.
130	Alma Landon, et al.	Earth	6.0x1	None	Earth Ditch	2.5x 0.5	.4	.8	8.0
131	Tony & Vivian Miller, et al.	Collecting basin		None	2" Pipe Line		.6	.05	(Div. 67)
132	W. B. Perry, et al.	None	—	None	Earth Ditch	1.0x 0.5	.3	.5	54.2
133	Josie Roy	Gravel	3x1	None	Earth Ditches	1.5x 0.5	.1	1.0	13.2

TABLE 4 (Cont'd.)

Number of Diversion	Owner or Owners	Description of Diversion System: Type Dam	Size of Dam Feet	Head Gate	Conduit: Type	Size Feet	Length Miles	Capacity c.f.s.	Total Acres Irrigated
134	T. L. Hannon & H. S. Hannon	None	—	None	2" & 6" Pipe Lines Earth Ditches	1.5x 0.5	.2 .2	.5) 1.0)	58.4
135	Chico Jim	None	—	None	Natural Seepage		—	—	11.5
136	C. H. Leggett	None	—	None	Natural Seepage		—	—	12.9
137	W. A. Snyder & Sons Co.	Concrete basin	8x6x4	None	Earth Ditch	2.0x 0.5	.2	1.0	15.7
138	Walter E. Cliff	None	—	None	Natural Seepage		—	—	42.8
139	W. M. Hosken	None	—	None	Natural Seepage		—	—	(Div. 80)
140	E. R. Bates	None	—	None	Natural Seepage		—	—	0.4
141	Arthur Peter	Earth basin None	20x12x2 —	None None	1" Pipe Line Earth Ditches	1.0x 0.5	.01 .1	.01 .2	(Div. 100)
142	St. Clair Gates	None	—	None	Earth Ditches	1.0x 0.4	.1	.2	(Div. 101)
143	J. L. & Elizabeth E. Robinson	None	—	None	3/4" Pipe Line		.6	.001	Dom.
Over-flow	W. B. Perry, et al.	None	—	None	None	—	—	—	968.7
						Total			12,012.5

TABLE 6

TEMPERATURE RECORDS AT GREENVILLE, CALIFORNIA
Temperature in Degrees Fahrenheit

Month	Mean 17 Years	Mean Maximum 17 Years	Mean Minimum 17 Years	Maximum 18 Years	Minimum 18 Years
January	33.8	45.4	22.3	65	-14
February	37.2	50.4	24.0	69	-11
March	41.2	55.1	27.4	77	4
April	47.1	63.4	30.8	86	17
May	52.6	70.0	35.2	98	22
June	59.3	79.4	39.2	99	24
July	61.5	83.6	39.4	105	28
August	64.2	88.1	40.2	104	23
September	59.0	82.0	35.9	102	16
October	49.8	69.3	30.4	91	7
November	41.5	55.8	27.2	78	8
December	34.2	46.5	21.9	61	-4
Annual	48.4	65.8	31.2	105	-14

TABLE 5

PRECIPITATION AT GREENVILLE, CALIFORNIA
Elevation 3,600 Feet
Monthly, Seasonal, and Average Amounts in Inches

Season	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
1937-38	0.73	10.96	8.36	5.82	16.39	9.13	2.48	0.77	.00	.00	.00	.27	54.91
1938-39	1.47	1.59	1.56	4.89	1.49	4.90	.08	2.40	.16	.00	.02	.17	18.73
1939-40	2.31	.00	4.19	12.14	17.64	8.91	.57	1.11	.26	.00	.17	1.04	48.34
1940-41	2.77	4.32	15.50	8.28	8.58	3.82	3.88	2.70	.54	.41	.15	.18	51.13
1941-42	1.02	2.80	14.63	7.65	9.61	1.18	7.31	5.69	.33	.00	.00	.01	50.23
1942-43	.04	7.07	6.71	13.96	3.53	5.81	1.90	.55	2.19	.03	.00	.00	41.79
1943-44	1.20	2.25	2.24	5.23	6.91	4.90	2.62	.58	.73	.52	.00	.32	27.50
1944-45	2.28	7.74	5.40	1.14	9.23	3.34	1.33	4.01	.79	.00	.10	.22	35.58
Mean 1937-1945 8 years	1.48	4.59	7.32	7.39	9.17	5.25	2.52	2.23	.63	.12	.05	.28	41.03
*Mean 1894-1914 21 years	2.36	4.67	6.42	10.54	5.48	6.76	2.79	1.73	.75	.42	.25	1.17	43.34

PRECIPITATION AT QUINCY, CALIFORNIA
Elevation 3,400 Feet
Average Monthly and Seasonal Amount in Inches

Season	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
Mean 1895-1916 22 years	2.64	5.10	6.05	10.33	6.00	6.92	2.44	2.32	.73	.10	.13	1.25	44.01
Mean 1895-1945 49 years	2.35	4.76	5.84	7.53	6.60	5.94	2.62	1.86	.76	.08	.14	1.15	39.63

* Only period of record prior to 1937

TABLE 7

CHARACTER OF PRECIPITATION AT GREENVILLE

Month	Mean Precipitation 21 years (Inches of Water)	Mean Snowfall 21 years (Inches of Snow)	Snowfall in inches of water in Per Cent of Monthly Mean Precipitation
October	2.36	0.9	4
November	4.67	4.0	9
December	6.42	14.4	22
January	10.54	36.1	34
February	5.48	15.7	29
March	6.76	24.1	36
April	2.79	3.8	14
May	1.73	0.5	3
June	.75	T	0
July	.42	0	0
August	.25	0	0
September	1.17	0	0
Seasonal	43.34	99.6	23

10 inches of snow equivalent to 1 inch of precipitation

TABLE 8

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF WOLF CREEK ABOVE CEDAR MILL
April 11 to September 30, 1945

Day	Apr.	May	June	July	Aug.	Sept.	
1		20.2	10.4	5.30	3.40	3.20	
2		19.6	10.2	5.00	3.40	3.20	
3		18.2	10.2	4.90	3.40	3.20	
4		16.8	9.90	4.80	3.40	3.20	
5		15.4	10.4	4.50	3.40	3.20	
6		13.7	10.8	4.50	3.60	3.30	
7		12.6	10.5	4.30	3.70	3.30	
8		11.9	10.4	4.30	3.40	3.30	
9		11.5	9.80	4.50	3.40	3.20	
10		11.5	9.10	4.60	3.40	3.20	
11	25.9	10.8	8.70	4.50	3.40	3.20	
12	25.2	12.6	8.40	4.20	3.40	3.20	
13	23.8	16.8	7.60	3.90	3.40	3.20	
14	22.1	15.4	7.10	3.80	3.40	3.20	
15	22.1	13.3	6.70	3.60	3.40	3.20	
16	27.1	12.6	6.40	3.50	3.40	3.20	
17	33.6	12.6	6.20	3.50	3.40	3.20	
18	39.2	17.5	5.70	3.50	3.40	3.20	
19	46.2	17.5	5.70	3.50	4.00	3.20	
20	51.8	16.1	5.50	3.50	4.10	3.20	
21	50.4	15.4	5.50	3.40	3.60	4.00	
22	42.0	14.0	5.00	3.40	3.30	4.50	
23	33.6	13.3	7.10	3.40	3.20	4.50	
24	30.8	12.6	8.40	3.40	3.20	4.20	
25	30.8	12.0	7.10	3.40	3.20	4.20	
26	28.0	11.5	6.40	3.40	3.20	4.00	
27	25.2	11.2	5.70	3.40	3.20	4.00	
28	22.4	10.8	5.70	3.40	3.20	4.00	
29	21.8	11.2	5.60	3.40	3.20	4.00	
30	21.0	12.3	5.50	3.40	3.20	4.00	
31		11.2		3.40	3.20		
Total Sec.Ft. Days	*623.0	432.1	231.70	121.60	105.50	105.70	173 Day Period
Mean Sec.Ft.	* 31.15	13.9	7.72	3.92	3.40	3.52	9.36
Maximum: Sec.Ft.	* 51.8	20.2	10.8	5.30	4.10	4.50	51.8
Minimum: Sec.Ft.	* 21.0	10.8	5.00	3.40	3.20	3.20	3.20
Total Acre Ft.	* 1240	857	460	241	209	210	3,220

* 20 day period
Water stage recorder installed on April 11, 1945.

TABLE 9

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
WOLF CREEK AT STATE HIGHWAY BRIDGE
April 11 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		54.0	20.0	7.80	3.90	4.00	
2		48.0	18.0	7.40	3.90	4.00	
3		43.0	19.0	7.00	3.80	4.00	
4		27.0	17.0	6.80	3.80	4.00	
5		25.0	16.5	6.50	3.70	4.00	
6		22.0	18.0	6.20	3.70	4.00	
7		22.0	16.5	6.00	3.70	4.00	
8		21.0	16.0	5.80	3.60	4.00	
9		19.0	16.0	5.70	3.60	4.00	
10		19.0	16.0	5.60	3.60	4.00	
11	54.0	20.0	15.0	5.50	3.60	4.00	
12	50.0	22.0	15.0	5.50	3.60	4.00	
13	48.0	42.0	15.0	5.40	3.50	4.00	
14	47.0	39.0	14.5	5.20	3.50	4.00	
15	54.0	27.0	14.0	5.00	3.50	4.00	
16	65.0	25.0	13.5	4.70	3.50	4.00	
17	71.0	26.0	13.0	4.40	3.50	4.00	
18	75.0	53.0	12.5	4.20	3.50	4.00	
19	90.0	52.0	12.0	4.00	3.50	4.00	
20	114	43.0	11.0	4.00	3.60	4.00	
21	122	24.0	10.0	4.00	3.60	4.50	
22	106	24.0	9.00	4.00	3.60	5.00	
23	98.0	23.0	9.00	4.00	3.60	5.00	
24	90.0	24.0	10.0	4.00	3.70	5.00	
25	90.0	23.0	9.00	4.00	3.70	4.50	
26	77.0	22.0	8.80	4.00	3.70	4.50	
27	68.0	22.0	8.70	4.00	3.80	4.50	
28	62.0	21.0	8.60	4.00	3.80	4.50	
29	56.0	21.0	8.40	4.00	3.90	4.50	
30	59.0	22.0	8.20	4.00	4.00	4.50	
31		22.0		4.00	4.00		
Total Sec. Ft. Days	*1496.0	897.0	398.20	156.70	114.00	126.50	173 Day Period
Mean Sec. Ft.	* 74.8	28.9	13.27	5.05	3.68	4.22	18.43
Maximum Sec. Ft.	*122	54.0	20.0	7.80	4.00	5.00	122
Minimum Sec. Ft.	* 47.0	19.0	8.20	4.00	3.50	4.00	3.50
Total Acre Ft.	*2970	1780	790	311	226	251	6330

* 20 day period
Water stage recorder installed on April 11, 1945

TABLE 10

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
WILLIAMS CREEK AT KUNTZLER DAM
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	2.50	2.20	0.60	0.20	0.06	
2	2.50	2.00	.60	.20	.06	
3	2.50	1.90	.60	.15	.06	
4	2.50	1.80	.60	.15	.05	
5	2.40	1.70	.55	.15	.05	
6	2.30	1.60	.55	.15	.05	
7	2.20	1.50	.55	.15	.05	
8	2.20	1.30	.55	.15	.06	
9	2.10	1.30	.50	.15	.06	
10	2.00	1.30	.50	.15	.06	
11	1.90	1.30	.50	.10	.06	
12	1.90	1.20	.45	.10	.07	
13	2.50	1.20	.45	.10	.07	
14	2.50	1.20	.40	.10	.07	
15	2.40	1.20	.40	.10	.07	
16	2.50	1.20	.35	.10	.08	
17	2.60	1.20	.35	.10	.08	
18	2.80	1.10	.30	.10	.08	
19	2.80	1.00	.30	.10	.08	
20	2.80	.90	.30	.10	.09	
21	2.80	.80	.30	.10	.09	
22	2.80	.75	.30	.10	.10	
23	2.80	.70	.25	.10	.10	
24	2.80	.90	.25	.10	.10	
25	2.80	.80	.20	.08	.10	
26	2.70	.75	.20	.08	.10	
27	2.60	.70	.20	.08	.10	
28	2.60	.70	.20	.08	.10	
29	2.50	.70	.20	.08	.10	
30	2.40	.65	.20	.07	.10	
31	2.30		.20	.07		
Total Sec. Ft. Days	77.00	35.55	11.90	3.54	2.30	153 Day Period
Mean Sec. Ft.	2.48	1.18	.38	.11	.08	0.85
Maximum Sec. Ft.	2.80	2.20	.60	.20	.10	2.80
Minimum Sec. Ft.	1.90	.65	.20	.07	.05	.05
Total Acre Ft.	153	70.5	23.6	7.02	4.56	260

Staff gage installed on May 1, 1945

TABLE 11

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
LIGHTS CREEK BELOW MOONLIGHT CREEK
April 12 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		118	44.0	12.0	3.50	1.60	
2		122	42.0	11.5	3.40	1.60	
3		118	42.0	11.0	3.30	1.50	
4		112	45.0	10.0	3.20	1.50	
5		103	45.0	9.50	3.20	1.40	
6		97.0	46.0	9.00	3.20	1.40	
7		90.0	51.0	8.50	3.40	1.30	
8		86.0	45.0	8.30	3.20	1.30	
9		80.0	40.0	8.30	2.90	1.30	
10		79.0	36.0	9.50	2.50	1.20	
11		71.0	33.0	9.00	2.40	1.20	
12	56.0	70.0	30.0	8.50	2.00	1.10	
13	58.0	80.0	29.0	8.00	2.00	1.10	
14	65.0	76.0	27.0	7.80	2.00	1.00	
15	87.0	67.0	26.0	7.60	2.00	1.00	
16	95.0	66.0	24.0	7.20	2.00	1.00	
17	108	68.0	23.0	6.90	1.90	1.00	
18	129	73.0	21.0	6.30	1.90	1.00	
19	146	75.0	20.0	5.90	2.00	1.00	
20	155	78.0	19.0	5.90	2.20	1.00	
21	150	74.0	18.0	5.90	2.00	1.80	
22	140	69.0	17.0	5.40	1.90	3.00	
23	129	63.0	18.0	5.10	1.80	3.00	
24	125	64.0	17.0	4.90	1.60	2.90	
25	117	61.0	16.0	4.80	1.70	2.90	
26	106	58.0	16.0	4.70	1.80	2.80	
27	106	54.0	15.0	4.50	1.80	2.80	
28	107	52.0	14.0	4.30	1.80	2.70	
29	112	52.0	13.0	4.10	1.80	2.70	
30	117	50.0	12.0	3.90	1.80	2.70	
31		48.0		3.70	1.80		
Total Sec. Ft. Days	*2108.0	2374.0	844.0	222.00	72.00	51.80	172 Day Period
Mean Sec. Feet	* 110.9	76.6	28.1	7.16	2.32	1.73	32.98
Maximum Sec. Feet	* 155	122	51.0	12.0	3.50	3.00	155
Minimum Sec. Feet	* 56.0	48.0	12.0	3.70	1.60	1.00	1.00
Total Acre Feet	*4180	4710	1670	440	143	103	11200

* 19 day period
Water stage recorder installed on April 12, 1945

TABLE 12

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
COOKS CREEK ABOVE HOSKEN RANCH
April 13 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		20.0	8.50	0.60			
2		20.0	8.00	.50			
3		18.0	7.50	.40			
4		16.0	7.00	.30			
5		14.0	7.00	.20			
6		12.0	7.00	.10			
7		10.0	8.50	.00			
8		9.00	7.50				
9		8.00	7.00				
10		7.50	6.00				
11		7.00	5.50				
12		6.00	5.00				
13	17.5	7.50	4.50				
14	17.5	11.0	4.00				
15	20.0	10.0	3.50				
16	26.5	8.00	3.30				
17	31.5	9.00	3.00				
18	34.5	10.0	2.60				
19	37.0	15.0	2.30				
20	39.0	18.0	2.10				
21	39.0	20.0	1.90	NO FLOW	NO FLOW	NO FLOW	
22	36.0	19.0	1.70				
23	32.0	17.0	1.50				
24	29.0	14.0	1.30				
25	28.0	12.0	1.20				
26	25.0	10.0	1.10				
27	23.0	9.00	1.00				
28	22.0	8.50	.90				
29	22.0	8.50	.80				
30	21.0	8.00	.70				
31		9.00					
Total Sec.Ft. Days	*500.5	371.00	121.90	**2.10			86 Day Period
Mean Sec.Ft.	* 27.81	11.97	4.06	** .30			11.58
Maximum Sec.Ft.	* 39.0	20.0	8.50	** .60			39.0
Minimum Sec.Ft.	* 17.5	6.00	.70	** .00			.00
Total Acre Ft.	*993	736	242	**4.17			1980

* 18 day period
** 7 day period
Water stage recorder installed on April 13, 1945

TABLE 13

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
SIDE CHANNEL SPILLING INTO FREEMAN-BATES DITCH NEAR ITS HEAD
April 12 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		5.50	2.20	0.60	0.00		
2		6.00	2.20	.60			
3		5.50	2.20	.60			
4		5.00	2.20	.60			
5		4.80	2.20	.60			
6		4.70	2.20	.60			
7		4.70	2.20	.60			
8		4.60	2.20	.50			
9		4.50	2.00	.50			
10		4.50	1.90	.60			
11		4.30	1.80	.60			
12	2.00	4.30	1.60	.50			
13	2.00	4.60	1.50	.50			
14	2.50	4.30	1.40	.50	NO FLOW	NO FLOW	
15	3.00	4.00	1.20	.50			
16	3.50	4.00	1.00	.50			
17	4.00	4.20	.90	.50			
18	4.50	4.20	.80	.50			
19	5.00	4.20	.80	.45			
20	5.50	4.10	.70	.45			
21	6.00	3.90	.70	.40			
22	5.50	3.80	.70	.40			
23	5.50	3.60	.70	.35			
24	5.50	3.40	.70	.35			
25	5.00	3.10	.70	.30			
26	5.00	3.10	.70	.30			
27	5.00	2.90	.60	.20			
28	5.00	2.70	.60	.15			
29	5.00	2.70	.60	.10			
30	5.50	2.50	.60	.05			
31		2.40		.05			
Total Sec.Ft. Days	* 85.00	126.10	39.80	13.45	**0.00		112 Day Period
Mean Sec.Ft.	* 4.47	4.07	1.33	.43	** .00		2.36
Maximum Sec.Ft.	* 6.00	6.00	2.20	.60	** .00		6.00
Minimum Sec.Ft.	* 2.00	2.40	.60	.05	** .00		.00
Total Acre Ft.	*169	250	78.9	26.7	** .00		525

* 19 Day Period
** 1 Day Period
Staff gage installed on April 12, 1945

TABLE 14

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
PETER CREEK ABOVE PETER CREEK BARN DITCH
April 15 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		21.0	6.00	0.50			
2		20.0	5.50	.50			
3		20.0	5.50	.40			
4		19.0	5.00	.40			
5		19.0	5.00	.35			
6		19.0	6.00	.35			
7		19.0	6.50	.30			
8		18.0	6.00	.30			
9		18.0	5.50	.25			
10		17.0	5.00	.20			
11		16.0	5.00	.20			
12		15.0	4.50	.15			
13		14.0	4.50	.15			
14		15.0	4.00	.10			
15	17.0	13.0	3.50	.10			
16	18.0	11.0	3.00	.05			
17	20.0	11.0	2.50	.00			
18	22.0	10.0	2.20				
19	24.0	10.0	2.00				
20	25.0	11.0	2.00				
21	25.0	12.0	2.00		NO FLOW	NO FLOW	
22	24.0	9.00	2.00				
23	24.0	8.00	1.80				
24	23.0	7.00	1.60				
25	23.0	6.50	1.40				
26	22.0	6.50	1.20				
27	21.0	6.00	1.00				
28	20.0	6.00	.80				
29	19.0	5.50	.70				
30	19.0	5.00	.60				
31		5.50					
Total Sec.Ft. Days	*346.0	393.00	102.30	**4.30			94 Day Period
Mean Sec.Ft.	* 21.6	12.68	3.41	** .25			9.00
Maximum Sec.Ft.	* 25.0	21.0	6.50	** .50			25.00
Minimum Sec.Ft.	* 17.0	5.00	.60	** .00			.00
Total Acre Ft.	686	780	203	**8.53			1680

* 16 day period
** 17 day period
Staff gage installed on April 15, 1945

TABLE 15

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
FOREMAN RAVINE AT COUNTY ROAD
April 19 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		5.20	1.07	0.70	0.48	0.20	
2		5.00	1.06	.69	.47	.19	
3		4.70	1.05	.68	.46	.18	
4		4.30	1.04	.67	.45	.17	
5		4.00	1.03	.66	.44	.16	
6		3.70	1.02	.65	.43	.15	
7		3.40	1.01	.64	.42	.14	
8		3.10	1.00	.63	.41	.13	
9		3.00	.99	.62	.40	.12	
10		2.95	.98	.62	.39	.11	
11		2.90	.97	.60	.38	.10	
12		2.80	.96	.58	.37	.09	
13		2.70	.95	.57	.36	.08	
14		2.60	.94	.56	.35	.07	
15		2.50	.93	.55	.34	.06	
16		2.40	.92	.55	.33	.06	
17		2.30	.91	.54	.32	.06	
18		2.20	.90	.53	.31	.05	
19	6.00	2.10	.88	.53	.30	.05	
20	7.00	2.00	.86	.52	.29	.05	
21	6.50	1.90	.84	.51	.23	.06	
22	6.00	1.80	.82	.51	.27	.07	
23	5.80	1.70	.84	.51	.26	.07	
24	5.60	1.60	.82	.50	.25	.07	
25	5.50	1.50	.81	.50	.24	.06	
26	5.20	1.40	.80	.50	.24	.05	
27	5.20	1.30	.78	.50	.23	.05	
28	5.30	1.20	.76	.50	.23	.05	
29	5.50	1.10	.74	.50	.23	.05	
30	5.40	1.09	.72	.49	.22	.05	
31	--	1.08	--	.49	.21	---	
Total Sec.Ft. Days	* 69.00	79.52	27.40	17.60	10.36	2.80	165 Day Period
Mean Sec.Ft.	* 5.75	2.57	.91	.57	.33	.09	1.25
Maximum Sec.Ft.	* 7.00	5.20	1.07	.70	.48	.20	7.00
Minimum Sec.Ft.	* 5.20	1.08	.72	.49	.21	.05	.05
Total Acre Ft.	*137	158	54.3	34.9	20.5	5.55	410

* 12 day period
Staff gage installed on April 19, 1945

TABLE 16

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
INDIAN CREEK BELOW BARNES DITCHES
April 12 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		780	245	92.0	33.0	30.0	
2		800	228	86.0	33.0	30.0	
3		800	224	85.0	32.0	30.0	
4		780	260	83.0	32.0	30.0	
5		720	285	75.0	32.0	30.0	
6		680	280	63.0	32.0	30.0	
7		660	300	58.0	33.0	30.0	
8		610	286	57.0	32.0	30.0	
9		590	265	58.0	31.0	30.0	
10		580	243	59.0	30.0	30.0	
11		540	217	58.0	30.0	30.0	
12	465	480	200	57.0	28.0	31.0	
13	420	530	188	55.0	28.0	31.0	
14	400	500	175	53.0	28.0	31.0	
15	420	450	155	52.0	28.0	30.0	
16	570	420	145	51.0	28.0	30.0	
17	690	500	139	49.0	28.0	30.0	
18	690	480	131	48.0	28.0	30.0	
19	770	460	126	47.0	28.0	30.0	
20	960	450	120	45.0	29.0	31.0	
21	990	430	116	44.0	29.0	34.0	
22	1,070	380	109	44.0	28.0	34.0	
23	990	350	112	44.0	28.0	34.0	
24	890	320	123	43.0	28.0	34.0	
25	870	306	124	42.0	28.0	34.0	
26	830	298	120	40.0	28.0	34.0	
27	750	278	114	38.0	29.0	35.0	
28	740	267	108	37.0	30.0	36.0	
29	750	272	103	36.0	30.0	36.0	
30	780	278	96.0	35.0	30.0	35.0	
31		262		34.0	30.0		
Total Sec.Ft. Days	* 14,045	15,251	5,342	1,668.0	921.0	950.0	172 Day Period
Mean Sec.Ft.	* 739	492	178	53.8	29.7	31.7	222
Maximum Sec.Ft.	*1,070	800	300	92.0	33.0	36.0	1,070
Minimum Sec.Ft.	* 400	262	96.0	34.0	28.0	30.0	28.0
Total Acre Ft.	* 27900	30250	10600	3310	1830	1880	75800

* 19 day period
Water stage recorder installed on April 12, 1945

TABLE 17

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
HOUGH CREEK AT COUNTY ROAD
May 17 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		5.50	0.00			
2		4.90				
3		3.80				
4		3.00				
5		2.90				
6		2.80				
7		3.20				
8		3,20				
9		3.10				
10		3.30				
11		3.00				
12		2.80				
13		2.50				
14		2.30				
15		2.00				
16		1.80				
17	8.00	1.70				
18	8.00	1.60				
19	7.80	1.50	NO FLOW	NO FLOW	NO FLOW	
20	7.60	1.30				
21	7.50	1.20				
22	7.50	1.10				
23	7.30	1.00				
24	7.30	.80				
25	7.00	.70				
26	6.80	.60				
27	6.70	.50				
28	6.60	.40				
29	6.50	.30				
30	6.20	.20				
31	6.00					
Total Sec.Ft. Days	*106.80	63.00	**0.00			46 Day Period
Mean Sec.Ft.	* 7.12	2.10	** .00			3.69
Maximum Sec.Ft.	* 8.00	5.50	** .00			8.00
Minimum Sec.Ft.	* 6.00	.20	** .00			.00
Total Acre Ft.	*212	125	.00			337

* 15 day period
** 1 day period
Staff gage installed on May 17, 1945

TABLE 18

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
INDIAN CREEK AT FLOURNOY BRIDGE
April 20 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		572	120	33.0	7.50	10.0	
2		556	106	31.0	7.50	10.5	
3		550	102	28.0	7.50	11.0	
4		520	124	26.0	7.50	10.5	
5		460	132	25.0	7.50	10.5	
6		418	125	23.0	8.00	10.5	
7		390	160	21.0	8.00	10.5	
8		358	149	21.0	8.00	10.0	
9		332	129	24.0	8.00	10.0	
10		316	114	26.0	8.00	10.0	
11		284	100	22.0	9.00	10.0	
12		258	88.0	21.0	9.00	9.50	
13		300	79.0	19.0	9.00	9.00	
14		300	75.0	18.0	9.00	8.50	
15		260	70.0	18.0	9.00	8.50	
16		240	66.0	15.0	9.00	9.00	
17		275	62.0	14.0	9.00	9.00	
18		270	58.0	13.0	9.00	9.50	
19		260	54.0	13.0	9.00	9.50	
20	844	284	50.0	12.0	9.00	9.50	
21	892	254	47.0	12.0	9.00	10.0	
22	780	216	43.0	11.0	8.50	11.0	
23	742	186	51.0	10.0	8.50	12.0	
24	710	176	56.0	10.0	8.00	13.0	
25	684	172	53.0	10.0	8.00	13.0	
26	626	161	51.0	10.0	8.00	13.0	
27	588	146	43.0	10.0	8.00	13.0	
28	578	142	40.0	9.00	8.00	13.0	
29	584	148	37.0	8.00	9.00	13.0	
30	588	160	34.0	8.00	9.00	13.0	
31		146		7.50	9.00		
Total Sec.Ft. Days	* 7,616	9,110	2,418.0	528.50	260.50	319.50	164 Day Period
Mean Sec.Ft.	* 692	294	80.6	17.05	8.40	10.65	123
Maximum Sec.Ft.	* 892	572	160	33.0	9.00	13.0	892
Minimum Sec.Ft.	* 578	142	34.0	7.50	7.50	8.50	7.50
Total Acre Ft.	*15,100	18,100	4,800	1,050	517	634	40,200

* 11 day period
Water stage recorder installed on April 20, 1945

TABLE 19

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
WARD CREEK ABOVE HOSSELKUS DITCHES
April 20 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		28.0	13.0	5.50	3.60	3.60	
2		28.0	13.0	5.00	3.60	3.60	
3		28.0	14.0	5.00	3.60	3.60	
4		28.0	15.0	5.00	3.60	3.60	
5		28.0	14.0	4.70	3.80	3.60	
6		27.5	15.0	4.50	3.80	3.60	
7		27.0	14.0	4.50	3.80	3.60	
8		27.0	15.0	4.30	3.80	3.80	
9		26.5	14.0	4.70	3.60	3.80	
10		26.5	13.0	4.70	3.60	3.80	
11		26.0	11.0	4.50	3.60	3.80	
12		26.0	11.0	4.50	3.60	3.80	
13		26.0	11.0	4.50	3.60	3.80	
14		25.5	10.0	4.50	3.60	3.80	
15		25.0	9.00	4.50	3.40	3.80	
16		25.5	8.00	4.30	3.40	3.80	
17		26.0	7.50	4.30	3.40	3.90	
18		25.0	7.00	4.00	3.40	4.00	
19		24.0	7.00	4.00	3.40	4.00	
20	35.0	23.0	7.00	4.00	3.80	4.00	
21	37.0	21.0	7.00	4.00	3.80	5.00	
22	34.0	19.0	6.50	4.00	3.60	5.00	
23	33.0	18.0	8.00	4.00	3.40	5.00	
24	31.0	17.0	7.00	4.00	3.40	5.00	
25	29.0	15.5	7.00	4.00	3.40	4.80	
26	28.0	15.0	7.00	4.00	3.60	4.80	
27	26.0	14.5	6.50	4.00	3.60	4.80	
28	27.0	14.5	6.00	4.00	3.60	4.70	
29	27.0	14.0	6.00	3.80	3.60	4.70	
30	27.0	13.5	5.50	3.80	3.60	4.70	
31		13.0		3.80	3.60		
Total Sec.Ft. Days	*334.0	701.5	229.00	134.40	111.20	123.80	164 Day Period
Mean Sec.Ft.	* 30.4	22.6	7.63	4.34	3.59	4.13	9.96
Maximum Sec.Ft.	* 37.0	28.0	15.0	5.50	3.80	5.00	37.0
Minimum Sec.Ft.	* 26.0	13.0	5.50	3.80	3.40	3.60	3.40
Total Acre Ft.	*662	1,390	454	267	221	246	3,240

* 11 day period

Water stage recorder installed on April 20, 1945

TABLE 20

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
LITTLE GRIZZLY CREEK ABOVE DIVERSIONS
April 20 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		245	78.0	21.0	9.50	6.60	
2		254	77.0	20.0	9.50	6.60	
3		265	77.0	19.0	9.50	6.50	
4		265	95.0	18.0	9.50	6.40	
5		242	90.0	18.0	9.80	6.40	
6		230	82.0	17.0	9.80	6.40	
7		230	77.0	17.0	9.80	6.40	
8		219	70.0	17.0	9.50	6.40	
9		208	64.0	18.0	9.20	6.30	
10		202	60.0	17.0	9.00	6.30	
11		195	55.0	16.0	8.70	6.30	
12		195	53.0	15.0	8.50	6.20	
13		173	52.0	15.0	8.30	6.20	
14		161	51.0	14.0	8.10	6.20	
15		150	49.0	13.5	7.90	6.20	
16		207	47.0	13.0	7.80	6.20	
17		172	44.0	13.0	7.60	6.20	
18		162	42.0	13.0	7.60	6.20	
19		150	40.0	12.5	7.60	6.20	
20	210	141	38.0	12.0	8.00	6.20	
21	207	132	36.0	12.0	7.80	6.20	
22	202	124	34.0	12.0	7.50	7.00	
23	200	117	38.0	11.5	7.50	8.00	
24	203	110	35.0	11.5	7.20	7.20	
25	200	103	31.0	11.0	7.20	7.20	
26	198	94.0	30.0	10.5	7.20	7.00	
27	195	87.0	28.0	10.0	7.20	6.80	
28	195	85.0	26.0	10.0	6.90	6.60	
29	220	81.0	25.0	10.0	6.90	6.60	
30	230	80.0	23.0	10.0	6.90	6.40	
31		77.0		9.50	6.90		
Total Sec.Ft. Days	*2,260	5,156.0	1,547.0	437.00	254.40	195.40	164 Day Period
Mean Sec.Ft.	* 205	166	51.6	14.1	8.21	6.51	60.1
Maximum Sec.Ft.	* 230	265	95.0	21.0	9.80	8.00	265
Minimum Sec.Ft.	* 195	77.0	23.0	9.50	6.90	6.20	6.20
Total Acre Ft.	*4,480	10,200	3,070	867	505	388	19,500

* 11 day period

Water stage recorder installed on April 20, 1945

TABLE 21

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
HOSSELKUS CREEK ABOVE DIVERSION
April 19 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		15.0	3.40				
2		14.0	3.30				
3		13.0	3.20				
4		12.0	3.10				
5		11.0	3.00				
6		10.0	2.80				
7		9.00	2.60				
8		8.00	2.40				
9		7.50	2.20				
10		7.20	2.00				
11		6.50	1.80				
12		6.00	1.60				
13		6.50	1.40				
14		7.00	1.20				
15		7.00	1.00				
16		6.20	.80				
17		5.60	.60				
18		5.80	.30				
19	25.0	6.00	.00				
20	26.0	6.20					
21	26.0	6.50					
22	25.0	6.30					
23	23.0	5.50					
24	22.0	4.90					
25	20.0	4.70					
26	19.0	4.40					
27	18.0	4.10					
28	18.0	3.90					
29	17.0	3.70					
30	16.0	3.60					
31		3.50					
Total Sec.Ft. Days	*255.0	220.60	**36.70				62 Day Period
Mean Sec.Ft.	* 21.2	7.12	** 1.93				8.26
Maximum Sec.Ft.	* 26.0	15.0	** 3.40				26.0
Minimum Sec.Ft.	* 16.0	3.50	** .00				.00
Total Acre Ft.	*506	438	**72.8				1020

NO FLOW

* 12 day period
** 19 day period
Staff gage installed on April 19, 1945

TABLE 22

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
DIXIE CREEK AT MILFORD ROAD
May 15 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		9.60	2.40	See Note	See Note	
2		9.40	2.10			
3		9.20	1.90			
4		9.50	1.70			
5		9.60	1.60			
6		10.0	1.50			
7		9.80	1.40			
8		9.40	1.30			
9		8.80	1.20			
10		8.20	1.10			
11		7.80	1.00			
12		7.40	.90			
13		7.10	.80			
14		6.60	.70			
15	14.0	6.20	.60			
16	13.6	5.60	.55			
17	14.5	5.10	.50			
18	14.0	5.00	.45			
19	13.5	4.90	.40			
20	15.0	4.80	.35			
21	14.0	4.70	.35			
22	13.6	4.60	.30			
23	13.0	4.50	.30			
24	12.5	4.60	.25			
25	12.0	4.20	.20			
26	11.6	3.90	.15			
27	11.2	3.60	.15			
28	10.8	3.30	.15			
29	10.8	3.00	.10			
30	11.0	2.70	.10			
31	10.0		.05			
Total Sec.Ft. Days	*215.10	193.10	24.55			78 Day Period
Mean Sec.Ft.	* 12.65	6.44	.79			5.55
Maximum Sec.Ft.	* 15.0	10.0	2.40			15.0
Minimum Sec.Ft.	* 10.0	2.70	.05			.05
Total Acre Ft.	*427	383	48.7			859

* 17 day period
Staff gage installed on May 15, 1945
Flow approximately 0.05 c.f.s. during August and September.

TABLE 23

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
RED CLOVER CREEK AT MILFORD ROAD
May 15 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		7.00	1.10	0.50	0.50	
2		6.50	1.05	.50	.60	
3		6.00	1.05	.50	.60	
4		7.00	1.00	.50	.50	
5		6.50	1.00	.50	.50	
6		6.00	.90	.60	.50	
7		4.50	.90	.60	.50	
8		3.80	.80	.60	.50	
9		3.30	.80	.50	.50	
10		3.00	.70	.50	.50	
11		2.70	.60	.50	.50	
12		2.50	.60	.50	.50	
13		2.30	.60	.50	.50	
14		2.10	.60	.50	.50	
15	9.10	2.00	.60	.50	.50	
16	11.0	1.90	.60	.50	.50	
17	12.0	1.80	.60	.50	.50	
18	14.0	1.70	.60	.60	.50	
19	13.5	1.60	.60	.60	.50	
20	14.0	1.55	.60	.50	.50	
21	13.4	1.50	.60	.50	.50	
22	12.8	1.45	.60	.50	1.00	
23	11.7	1.50	.60	.50	1.00	
24	10.6	1.70	.60	.50	1.00	
25	9.80	1.50	.60	.50	1.00	
26	9.00	1.40	.60	.50	1.00	
27	8.50	1.30	.55	.50	.90	
28	9.00	1.25	.55	.50	.90	
29	8.50	1.20	.55	.50	.80	
30	8.00	1.10	.55	.50	.80	
31	7.50		.55	.50		
Total Sec.Ft. Days	*182.40	87.65	21.65	16.00	19.10	139 Day Period
Mean Sec.Ft.	* 10.73	2.92	.70	.52	.64	2.35
Maximum Sec.Ft.	* 14.0	7.00	1.10	.60	1.00	14.0
Minimum Sec.Ft.	* 7.50	1.10	.55	.50	.50	.50
Total Acre Ft.	*362	174	42.9	31.7	37.9	648

* 17 day period
Staff gage installed on May 15, 1945

TABLE 24

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
CLARK DITCH FROM WOLF CREEK AT HEAD
May 24 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		1.70	2.80	2.80	2.50	
2		3.80	2.80	2.80	2.50	
3		3.80	2.80	2.80	2.50	
4		3.80	2.80	2.80	2.50	
5		3.70	2.80	2.80	2.50	
6		3.70	2.70	2.70	2.50	
7		3.70	2.70	2.70	2.50	
8		3.70	2.60	2.70	2.50	
9		3.70	2.60	2.70	2.50	
10		3.70	2.50	2.60	2.50	
11		3.70	2.50	2.60	2.50	
12		3.70	2.40	2.60	2.50	
13		3.70	2.40	2.50	2.50	
14		3.70	2.40	2.50	2.50	
15		3.60	2.40	2.50	2.50	
16		3.60	2.30	2.50	2.50	
17		3.30	2.30	2.50	2.50	
18		3.00	2.30	2.50	2.50	
19		2.80	2.20	2.50	2.50	
20		2.80	2.20	2.50	2.50	
21		2.80	2.10	2.50	2.60	
22		2.80	2.10	2.50	2.80	
23		2.80	2.00	2.50	2.80	
24	1.80	2.80	2.00	2.50	2.80	
25	1.80	2.80	1.90	2.50	2.80	
26	2.00	2.80	1.90	2.50	2.80	
27	2.00	2.80	1.80	2.50	2.80	
28	2.00	2.80	1.80	2.50	2.80	
29	1.90	2.80	2.80	2.50	2.80	
30	1.80	2.80	2.80	2.50	2.70	
31	1.70		2.80	2.50		
Total Sec.Ft. Days	*15.00	97.20	74.50	80.10	77.70	130 Day Period
Mean Sec.Ft.	* 1.88	3.24	2.40	2.58	2.59	2.65
Maximum Sec.Ft.	* 2.00	3.80	2.80	2.80	2.80	3.80
Minimum Sec.Ft.	* 1.70	1.70	1.80	2.50	2.50	1.70
Total Acre Ft.	*29.7	193	148	159	154	684

* 8 day period
No diversion prior to May 24, 1945

TABLE 25

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
SCHIESER DITCH FROM WOLF CREEK AT HEAD
June 21 to September 30, 1945

Day	June	July	August	Sept.	
1		5.60	1.90	3.30	
2		3.00	1.90	3.30	
3		3.00	1.90	3.30	
4		3.00	1.90	3.30	
5		3.00	1.80	3.30	
6		3.00	1.80	3.30	
7		3.00	1.80	3.30	
8		2.80	1.80	3.30	
9		2.70	1.80	3.30	
10		2.60	.30	2.00	
11		2.60	.30	1.80	
12		2.60	.30	1.80	
13		2.40	.30	1.80	
14		2.40	.30	1.80	
15		2.20	.30	1.80	
16		2.00	.30	1.80	
17		2.00	.30	1.80	
18		1.90	.30	1.80	
19		1.80	.30	1.80	
20		1.80	.20	1.80	
21	2.00	1.80	.20	1.90	
22	2.00	1.80	.20	2.00	
23	2.00	1.80	.30	2.20	
24	8.00	1.80	.30	2.20	
25	6.50	1.80	.30	2.00	
26	6.50	1.90	.30	2.00	
27	6.50	1.90	.30	2.00	
28	6.10	1.90	.30	2.00	
29	6.00	1.90	.30	2.00	
30	5.90	1.90	3.40	2.00	
31		1.90	3.40		
Total Sec.Ft. Days	*51.50	73.80	29.10	70.00	102 Day Period
Mean Sec.Ft.	* 5.15	2.38	.94	2.33	2.20
Maximum Sec.Ft.	* 8.00	5.60	3.40	3.30	8.00
Minimum Sec.Ft.	* 2.00	1.80	.20	1.80	.20
Total Acre Ft.	102	146	57.7	139	445

* 10 day period
No diversion prior to June 21, 1945

TABLE 26

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
FORGAY-FREDERICKSON DITCH FROM WOLF CREEK AT HEAD
June 22 to September 30, 1945

Day	June	July	Aug.	Sept.	
1		1.90	1.60	0.30	
2		2.90	1.60	.30	
3		3.60	1.50	.30	
4		3.40	1.50	.30	
5		3.10	1.50	.30	
6		2.80	1.50	.30	
7		2.60	1.50	.30	
8		2.80	1.40	.30	
9		2.60	1.40	.30	
10		2.60	2.80	1.60	
11		2.50	2.80	1.80	
12		2.50	2.70	1.80	
13		2.60	2.70	1.80	
14		2.40	2.70	1.80	
15		2.50	2.70	1.80	
16		2.30	2.70	1.80	
17		2.10	2.70	1.80	
18		2.00	2.70	1.80	
19		1.80	2.70	1.80	
20		1.80	3.00	1.80	
21		1.30	3.00	2.10	
22	5.00	1.80	3.00	2.30	
23	5.00	1.80	2.90	2.30	
24	1.50	1.80	3.00	2.30	
25	2.00	1.80	3.00	2.00	
26	2.00	1.70	3.00	2.00	
27	1.80	1.70	3.10	2.00	
28	2.00	1.70	3.10	2.00	
29	2.00	1.70	3.10	2.00	
30	2.00	1.70	.20	2.00	
31		1.70	.20		
Total Sec.Ft. Days	*23.30	70.00	71.30	43.30	101 Day Period
Mean Sec.Ft.	* 2.59	2.26	2.30	1.44	2.06
Maximum Sec.Ft.	* 5.00	3.60	3.10	2.30	5.00
Minimum Sec.Ft.	* 1.50	1.70	.20	.30	.20
Total Acre Ft.	*46.2	139	141	85.9	412

* 9 day period
No diversion prior to June 22, 1945

TABLE 27

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
FORGAY AND McINTOSH DITCHES FROM WOLF CREEK AT HEADS
June 14 to August 31, 1945

Day	June	July	Aug.	Sept.	
1		3.00	0.50	0.25	
2		3.00	.50	.25	
3		3.00	.50	.25	
4		3.00	.50	.25	
5		3.00	.50	.25	
6		3.00	.50	.25	
7		3.00	.50	.25	
8		3.00	.50	.25	
9		3.00	.50	.25	
10		3.00	.50	.25	
11		2.80	.50	.25	
12		2.80	.50	.25	
13		2.60	.50	.25	
14	14.5	2.60	.50	.25	
15	14.0	2.60	.50	.25	
16	13.5	2.50	.40	.25	
17	13.0	2.50	.40	.25	
18	12.5	2.40	.30	.25	
19	12.0	.50	.30	.25	
20	11.0	.50	.30	.25	
21	10.0	.50	.30	.30	
22	9.00	.50	.25	.35	
23	2.00	.50	.25	.35	
24	3.50	.50	.25	.35	
25	3.50	.50	.25	.35	
26	3.50	.50	.25	.30	
27	3.50	.50	.25	.30	
28	3.50	.50	.25	.30	
29	3.00	.50	.25	.30	
30	3.00	.50	.25	.30	
31		.50	.25		
Total Sec.Ft. Days	*135.00	57.30	12.00	8.20	109 Day Period
Mean Sec.Ft.	* 7.94	1.85	.39	.27	1.95
Maximum Sec.Ft.	* 14.5	3.00	.50	.35	14.5
Minimum Sec.Ft.	* 2.00	.50	.25	.25	.25
Total Acre Ft.	*268	114	23.8	16.3	422

* 17 day period
No diversion prior to June 14, 1945

TABLE 28

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
FREEMAN-BATES DITCH FROM LIGHTS CREEK AT FREEMAN RANCH
April 26 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		1.00	1.00	1.00	1.00	0.60	
2		1.00	1.00	1.00	1.00	.60	
3		1.00	1.00	1.00	.90	.60	
4		3.20	1.00	1.00	.90	.60	
5		3.20	1.00	1.00	.90	.50	
6		3.20	1.00	1.00	.80	.50	
7		3.20	1.00	1.00	.80	.50	
8		3.20	1.00	1.00	.80	.50	
9		3.20	1.00	3.00	.80	.50	
10		3.20	1.00	3.00	.70	.50	
11		3.20	2.50	3.00	.70	.50	
12		3.20	4.00	3.00	.60	.45	
13		3.20	4.00	2.80	.60	.45	
14		3.20	3.60	2.80	.60	.40	
15		1.20	3.40	2.50	.60	.40	
16		1.20	3.30	2.30	.60	.40	
17		1.00	3.30	2.00	.60	.40	
18		1.00	3.20	1.80	.60	.40	
19		1.00	3.20	1.70	.70	.40	
20		1.00	3.20	1.60	.70	.40	
21		1.00	3.20	1.50	.70	.80	
22		1.00	3.20	1.50	.60	1.00	
23		1.00	3.20	1.50	.60	1.00	
24		1.00	3.20	1.40	.60	1.00	
25		1.00	3.20	1.40	.60	1.00	
26	1.00	1.00	2.60	1.30	.60	.90	
27	1.00	1.00	1.00	1.30	.60	.90	
28	1.00	1.00	1.00	1.20	.60	.80	
29	1.00	1.00	1.00	1.20	.60	.80	
30	1.00	1.00	1.00	1.10	.60	.70	
31		1.00		1.00	.60		
Total Sec.Ft. Days	* 5.00	55.60	66.30	51.90	21.60	18.50	158 Day Period
Mean Sec.Ft.	* 1.00	1.79	2.21	1.67	.70	.62	1.39
Maximum Sec.Ft.	* 1.00	3.20	4.00	3.00	1.00	1.00	4.00
Minimum Sec.Ft.	* 1.00	1.00	1.00	1.00	.60	.40	.40
Total Acre Ft.	* 9.92	110	132	103	42.8	36.7	434

* 5 day period
No Record prior to April 26, 1945

TABLE 29

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
DEFANTI-SMITH DITCH FROM LIGHTS CREEK AT COUNTY ROAD
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	5.50	0.80	2.00	0.80	0.40	
2	5.50	.70	2.00	.80	.40	
3	5.50	.70	3.60	.70	.30	
4	5.50	.60	3.60	.70	.30	
5	5.50	.50	3.60	.70	.30	
6	5.50	.40	3.60	.70	.30	
7	5.50	.40	3.60	.80	.30	
8	5.50	.40	3.60	.70	.30	
9	5.50	.40	3.60	.60	.30	
10	5.50	.40	3.70	.50	.30	
11	5.50	4.00	3.60	.50	.30	
12	5.50	4.50	3.40	.40	.30	
13	5.50	4.50	3.00	.40	.30	
14	2.50	4.50	2.50	.40	.30	
15	1.80	5.00	2.00	.40	.30	
16	1.80	5.40	1.50	.40	.25	
17	1.80	5.00	1.30	.40	.25	
18	1.80	4.80	1.10	.40	.25	
19	1.90	4.70	1.00	.50	.25	
20	2.00	4.60	1.00	.50	.25	
21	2.00	4.50	1.00	.50	.40	
22	1.80	4.50	.90	.40	.80	
23	1.60	4.40	.90	.40	.80	
24	1.40	4.30	.90	.40	.80	
25	1.20	4.30	.90	.40	.80	
26	1.00	4.20	.90	.40	.80	
27	.90	4.20	.80	.40	.80	
28	.80	3.00	.80	.40	.70	
29	.80	2.00	.80	.40	.70	
30	.80	2.00	.80	.40	.70	
31	.80		.80	.40		
Total Sec.Ft. Days	98.20	89.70	62.80	15.70	13.25	153 Day Period
Mean Sec.Ft.	3.17	2.99	2.03	.51	.44	1.83
Maximum Sec.Ft.	5.50	5.40	3.70	.80	.80	5.50
Minimum Sec.Ft.	.80	.40	.80	.40	.25	.25
Total Acre Ft.	195	178	125	31.1	26.3	555

No diversion prior to May 1, 1945

TABLE 30

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
BURNS DITCH FROM LIGHTS CREEK AT HEAD
May 11 to September 30, 1945

Day	May	June	July	August	September	
1		0.00	0.00	0.10	0.70	
2		.00	.00	.10	.60	
3		.00	.30	.10	.60	
4		.00	.30	.10	.50	
5		.00	.30	.10	.50	
6		.00	.30	.10	.40	
7		.00	.00	.10	.40	
8		.00	.00	.10	.30	
9		.00	.00	.10	.30	
10		.00	.00	.10	.25	
11	1.00	.80	.00	.50	.25	
12	1.00	.80	.00	.50	.20	
13	1.20	1.00	.00	.60	.20	
14	1.20	1.00	.00	.60	.20	
15	1.20	1.20	.30	.80	.20	
16	1.20	1.20	.30	.80	.20	
17	1.20	1.10	.25	.75	.20	
18	1.20	1.10	.25	.75	.20	
19	1.20	1.10	.30	.75	.20	
20	1.00	1.10	.30	.70	.20	
21	.00	1.00	.30	.70	.20	
22	.00	1.00	.30	.70	.30	
23	.00	1.00	.30	.70	.30	
24	.00	.00	.30	.70	.30	
25	.00	.00	.30	.75	.30	
26	.00	.00	.30	.75	.30	
27	.00	.00	.60	.75	.30	
28	.00	.00	.80	.75	.30	
29	.00	.00	.40	.75	.30	
30	.00	.00	.80	.75	.30	
31	.00		.10	.75		
Total Sec.Ft. Days	*11.40	13.40	7.40	15.80	9.50	143 Day Period
Mean Sec.Ft.	* .54	.45	.24	.51	.32	0.40
Maximum Sec.Ft.	* 1.20	1.20	.80	.80	.70	1.20
Minimum Sec.Ft.	* .00	.00	.00	.10	.20	.00
Total Acre Ft.	*22.6	26.6	14.7	31.3	18.8	114

* 21 day period
No diversion prior to May 11, 1945

TABLE 31

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
QUIGLEY UPPER DITCH FROM LIGHTS CREEK AT HEAD
May 10 to September 30, 1945

Day	May	June	July	August	Sept.	
1		0.00	3.00	0.80	0.70	
2		.00	2.00	.80	.75	
3		.00	.00	.80	.65	
4		.00	.00	.80	.65	
5		.00	.00	1.00	.60	
6		.00	.00	1.40	.60	
7		.00	.00	1.40	.55	
8		.00	.00	1.40	.55	
9		.00	.00	1.40	.50	
10	4.00	.00	.00	1.40	.45	
11	4.50	.00	.00	1.20	.40	
12	4.50	.00	.00	1.20	.35	
13	4.50	.00	.00	1.10	.35	
14	4.50	.00	.00	1.00	.35	
15	4.50	.00	.00	.80	.30	
16	4.00	.00	.00	.80	.30	
17	.00	.00	.00	.80	.30	
18	.00	.00	1.00	.80	.30	
19	.00	1.00	1.00	.80	.30	
20	.00	3.50	.80	.80	.30	
21	.00	3.50	.40	.80	.40	
22	.00	3.50	.40	.80	.40	
23	.00	3.50	.30	.80	.40	
24	.00	3.50	.20	.80	.40	
25	.00	3.50	.00	.75	.40	
26	.00	3.50	.00	.75	.40	
27	.00	3.50	.00	.75	.40	
28	.00	3.50	.00	.75	.40	
29	.00	3.50	.00	.75	.40	
30	.00	3.50	.20	.75	.40	
31	.00		.65	.75		
Total Sec.Ft. Days	*30.50	39.50	9.95	28.95	13.25	144 Day Period
Mean Sec.Ft.	* 1.39	1.32	.32	.93	.44	0.85
Maximum Sec.Ft.	* 4.50	3.50	3.00	1.40	.70	4.50
Minimum Sec.Ft.	* .00	.00	.00	.75	.30	.00
Total Acre Ft.	*60.5	78.3	19.7	57.4	26.3	242

* 22 day period
No diversion prior to May 10, 1945

TABLE 32

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
QUIGLEY MIDDLE DITCH FROM LIGHTS CREEK AT HEAD
May 9 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		0.00	0.00	0.10		
2		.00	.00	.10		
3		.00	.00	.10		
4		.00	.00	.10		
5		.00	.00	.10		
6		.00	.00	.00		
7		.00	.00			
8		.00	.00			
9	1.00	.00	1.30			
10	2.00	.00	1.30			
11	2.00	.00	1.30			
12	2.00	.00	1.50			
13	2.00	1.00	1.50			
14	2.50	2.00	.50			
15	2.40	2.50	.00			
16	2.20	2.50	.00			
17	2.20	2.70	.00			
18	1.50	2.80	.00	NO FLOW	NO FLOW	
19	.00	2.80	.00			
20	.00	2.80	.00			
21	.00	2.80	.50			
22	.00	2.60	.40			
23	.00	2.50	.60			
24	.00	2.50	.60			
25	.00	2.50	1.00			
26	.00	2.50	1.00			
27	.00	1.00	.60			
28	.00	.00	.40			
29	.00	.00	.60			
30	.00	.00	.15			
31	.00		.15			
Total Sec.Ft. Days	*19.80	35.50	13.40	**.50		90 Day Period
Mean Sec.Ft.	* .86	1.18	.43	**.10		0.77
Maximum Sec.Ft.	* 2.50	2.80	1.50	**.10		2.80
Minimum Sec.Ft.	* .00	.00	.00	**.00		.00
Total Acre Ft.	*39.3	70.4	26.6	**.99		137

* 23 day period
** 6 day period
No diversion prior to May 9, 1945

TABLE 33

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
PETER UPPER DITCH FROM LIGHTS CREEK AT HEAD
May 10 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		0.00	0.00	0.40		
2		.00	.00	.40		
3		.00	.00	.40		
4		.00	.00	.40		
5		.00	.00	.20		
6		.00	.00	.10		
7		.00	.00	.00		
8		.00	.00			
9		.00	.00			
10	2.00	.00	.00			
11	4.40	.00	.00			
12	4.40	.00	.00			
13	4.40	.00	.00			
14	4.40	.00	1.50			
15	4.40	.00	1.50			
16	2.00	.00	1.40			
17	.00	.00	1.40			
18	.00	3.00	1.30			
19	.00	6.80	1.20			
20	.00	6.60	1.00			
21	.00	6.50	1.00			
22	.00	6.50	1.00			
23	.00	6.40	1.00			
24	.00	6.00	1.00			
25	.00	5.60	.80			
26	.00	5.20	.80			
27	.00	4.50	.80			
28	.00	2.00	.80			
29	.00	.00	.80			
30	.00	.00	.60			
31	.00		.60			
Total Sec.Ft. Days	*26.00	59.10	18.50	**1.90		90 Day Period
Mean Sec.Ft.	* 1.18	1.97	.60	** .27		1.17
Maximum Sec.Ft.	* 4.40	6.80	1.50	** .40		6.80
Minimum Sec.Ft.	* .00	.00	.00	** .00		.00
Total Acre Ft.	*51.6	117.2	36.7	**3.77		209

MOTION

* 22 day period
** 7 day period
No diversion prior to May 10, 1945

TABLE 34

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
QUIGLEY-CLIFF DITCH FROM LIGHTS CREEK AT HEAD
May 9 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		0.00	2.00	0.30		
2		.00	1.80	.30		
3		.00	1.60	.30		
4		.00	1.40	.30		
5		.00	1.10	.20		
6		.00	.90	.05		
7		.00	.70	.05		
8		.00	.60	.00		
9	3.00	.00	.50			
10	6.40	.00	.50			
11	6.40	.00	.40			
12	6.40	.00	.00			
13	6.40	.00	.00			
14	4.00	.00	.00			
15	.00	1.00	.00			
16	.00	3.80	.00			
17	.00	4.00	.00			
18	.00	4.50	.00			
19	.00	5.20	.00			
20	.00	5.20	.00			
21	.00	5.20	.00			
22	.00	5.20	.00			
23	.00	5.20	.00			
24	.00	5.20	.00			
25	.00	5.20	.00			
26	.00	2.50	.00			
27	.00	2.50	.00			
28	.00	2.50	.00			
29	.00	2.50	.00			
30	.00	2.50	.30			
31	.00		.40			
Total Sec.Ft. Days	*32.60	62.20	12.20	**1.50		92 Day Period
Mean Sec.Ft.	* 1.42	2.07	.39	** .19		1.18
Maximum Sec.Ft.	* 6.40	5.20	2.00	** .30		6.40
Minimum Sec.Ft.	* .00	.00	.00	** .00		.00
Total Acre Ft.	*64.7	123	24.2	**2.98		215

MOTION

* 23 day period
** 8 day period
No diversion prior to May 9, 1945

TABLE 35

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
PETER LOWER DITCH FROM LIGHTS CREEK AT HEAD
May 12 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		0.00	0.30	0.05		
2		.00	.30	.05		
3		.00	.30	.05		
4		.00	.30	.05		
5		.00	.30	.04		
6		.00	.30	.04		
7		.00	1.50	.04		
8		.00	1.50	.02		
9		.00	1.50	.01		
10		.00	1.50	.01		
11		.00	1.50	.02		
12	1.00	.00	1.50	.02		
13	2.00	.00	1.50	.02		
14	2.00	.00	1.00	.02		
15	1.00	.00	1.00	.02		
16	.00	.00	1.00	.00		
17	.00	.00	1.00			
18	.00	1.00	.05			
19	.00	3.00	.05			
20	.00	1.50	.05			
21	.00	1.50	.05			
22	.00	1.50	.05			
23	.00	1.50	.05			
24	.00	1.50	.05			
25	.00	3.00	.05			
26	.00	3.00	.05			
27	.00	3.00	.05			
28	.00	3.00	.05			
29	.00	1.00	.05			
30	.00	.00	.05			
31	.00		.05			
Total Sec.Ft. Days	* 6.00	24.50	17.00	** .46		97 Day Period
Mean Sec.Ft.	* .30	.82	.55	** .29		0.49
Maximum Sec.Ft.	* 2.00	3.00	1.50	** .05		3.00
Minimum Sec.Ft.	* .00	.00	.05	** .00		.00
Total Acre Ft.	*11.9	48.6	33.7	** .91		95.1

NO FLOW

NO FLOW

* 20 day period
** 16 day period
No diversion prior to May 12, 1945

TABLE 36

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
PETER CREEK UPPER DITCH FROM PETER CREEK AT HEAD
May 1 to September 30, 1945

Day	May	June	July	August	September	
1	0.60	0.50	0.75	0.31	0.15	
2	.60	.50	.75	.30	.15	
3	.60	.50	.75	.29	.15	
4	.60	.50	.75	.28	.15	
5	.60	.50	.75	.27	.15	
6	.60	.50	.75	.26	.15	
7	.60	.50	.75	.26	.15	
8	.60	.50	.75	.25	.15	
9	.60	.50	.75	.25	.15	
10	.60	.50	.75	.24	.15	
11	.60	.50	.75	.24	.15	
12	.60	.50	.74	.23	.15	
13	.55	.50	.74	.23	.15	
14	.55	.50	.72	.22	.15	
15	.55	.75	.72	.22	.15	
16	.50	.75	.70	.21	.15	
17	.50	.75	.70	.21	.15	
18	.50	.75	.68	.20	.15	
19	.50	.75	.65	.20	.15	
20	.50	.75	.62	.20	.15	
21	.50	.75	.59	.19	.18	
22	.50	.75	.56	.19	.20	
23	.50	.75	.53	.18	.20	
24	.50	.75	.50	.18	.20	
25	.50	.75	.47	.17	.20	
26	.50	.75	.44	.17	.20	
27	.50	.75	.41	.17	.20	
28	.50	.75	.39	.16	.20	
29	.50	.75	.37	.16	.20	
30	.50	.75	.35	.16	.20	
31	.50		.33	.15		
Total Sec.Ft. Days	16.85	19.00	19.46	6.75	4.98	153 Day Period
Mean Sec.Ft.	.54	.63	.63	.22	.17	0.44
Maximum Sec.Ft.	.60	.75	.75	.31	.20	.75
Minimum Sec.Ft.	.50	.50	.33	.15	.15	.15
Total Acre Ft.	33.4	37.7	38.60	13.39	9.88	133

No record prior to May 1, 1945

TABLE 37

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
MILL RACE DITCH FROM INDIAN CREEK BELOW YOUNG'S CHECK
April 13 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		32.5	25.0	40.0	30.0	24.5	
2		43.0	23.0	33.0	28.0	24.3	
3		55.0	22.0	42.0	28.0	24.8	
4		53.0	18.0	45.0	29.0	27.3	
5		49.0	15.0	34.0	28.0	27.8	
6		44.0	15.0	30.0	31.0	27.8	
7		51.0	17.0	36.0	31.0	27.8	
8		58.0	16.0	40.0	30.0	27.8	
9		55.0	16.0	42.0	30.0	28.0	
10		56.0	10.0	42.0	29.0	27.8	
11		51.0	8.00	41.0	27.5	29.0	
12		47.0	13.0	35.0	26.0	29.0	
13	4.00	49.0	16.0	32.0	26.5	30.0	
14	3.50	48.0	11.0	31.0	26.5	30.0	
15	3.00	44.0	13.0	23.0	26.0	29.0	
16	5.00	42.0	13.0	26.0	26.5	28.5	
17	7.50	47.0	28.0	30.0	24.8	29.0	
18	1.00	43.0	19.0	29.0	24.0	26.5	
19	2.50	42.0	46.0	29.0	24.8	26.5	
20	5.00	35.0	46.0	32.0	25.5	27.0	
21	6.00	21.0	43.0	32.0	26.5	27.5	
22	5.00	5.00	42.0	31.0	25.5	29.0	
23	3.00	9.00	59.0	34.0	25.5	30.0	
24	4.00	16.0	71.0	34.0	25.0	30.5	
25	3.50	15.0	69.0	33.0	24.8	30.0	
26	4.50	17.0	67.0	33.0	24.0	29.5	
27	4.50	18.0	50.0	32.0	24.5	30.5	
28	4.00	16.0	38.0	32.0	24.5	31.0	
29	11.0	25.0	27.0	31.0	24.3	31.0	
30	24.0	29.0	32.0	32.0	24.3	31.0	
31		27.0		31.0	24.5		
Total Sec.Ft. Days	*101.00	1,142.50	888.00	1,047.0	825.5	852.4	171 Day Period
Mean Sec.Ft.	* 5.61	36.85	29.60	33.77	26.63	28.41	28.40
Maximum Sec.Ft.	* 24.0	58.0	71.0	45.0	31.0	31.0	71.0
Minimum Sec.Ft.	* 1.00	5.00	8.00	23.0	24.0	24.3	1.00
Total Acre Ft.	*200	2,260	1,760	2,080	1,640	1,690	9,630

* 18 day period
Water stage recorder installed on April 13, 1945

TABLE 38

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
LATERALS ABOVE YOUNG'S CHECK ON MILL RACE DITCH AT HEADS
June 20 to September 30, 1945

Day	June	July	Aug.	Sept.	
1		1.00	3.80	1.00	
2		1.00	3.80	2.00	
3		1.00	3.80	2.20	
4		1.00	3.80	1.80	
5		2.00	4.50	1.50	
6		2.50	3.50	1.40	
7		2.50	3.50	1.40	
8		2.70	3.50	1.40	
9		2.70	3.50	1.40	
10		2.70	3.50	1.60	
11		2.70	3.50	1.40	
12		2.70	4.50	1.40	
13		1.20	1.70	1.40	
14		1.20	1.70	1.00	
15		2.50	1.70	1.30	
16		1.30	1.70	1.30	
17		1.30	2.60	1.30	
18		1.30	2.60	1.30	
19		1.30	2.60	1.30	
20	2.40	1.30	2.50	1.30	
21	2.40	2.50	2.00	1.30	
22	2.40	1.30	2.00	.80	
23	2.40	1.00	2.00	.80	
24	2.40	1.50	2.00	.80	
25	2.40	1.50	2.00	.80	
26	2.40	1.50	3.00	.80	
27	2.40	1.50	2.50	.80	
28	2.40	1.50	2.00	.80	
29	2.40	3.00	1.00	.80	
30	3.40	1.90	1.00	.80	
31		1.90	1.00		
Total Sec.Ft. Days	*27.40	55.00	82.80	37.20	103 Day Period
Mean Sec.Ft.	* 2.45	1.77	2.67	1.24	1.97
Maximum Sec.Ft.	* 3.40	3.00	4.50	2.20	4.50
Minimum Sec.Ft.	* 2.40	1.00	1.00	.80	.80
Total Acre Ft.	*54.3	109	164	73.8	401

* 11 day period
No record prior to June 20, 1945

TABLE 39

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
VANDERHOEVEN LATERAL FROM MILL RACE DITCH AT HEAD
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	1.90	1.50	2.40	1.70	1.30	
2	2.50	1.40	2.00	1.70	1.30	
3	3.00	1.40	2.50	1.80	1.30	
4	3.00	1.10	2.70	1.70	1.40	
5	2.90	.90	2.00	1.70	1.40	
6	2.50	.90	1.80	1.60	1.40	
7	3.00	1.10	2.20	1.80	1.40	
8	3.30	1.00	2.40	1.70	1.40	
9	3.00	1.00	2.50	1.60	1.40	
10	3.10	.60	2.50	1.60	1.40	
11	3.00	.50	2.50	1.60	1.40	
12	2.60	.80	2.10	1.50	1.40	
13	2.80	1.00	1.90	1.40	1.40	
14	2.70	.70	1.90	1.50	1.40	
15	2.50	.80	1.40	1.40	1.40	
16	2.40	.80	1.60	1.40	1.40	
17	2.60	1.70	1.90	1.40	1.40	
18	2.40	.00	2.00	1.40	1.40	
19	2.40	.00	1.90	1.40	1.40	
20	2.00	.00	2.00	1.40	1.40	
21	1.20	.30	2.10	1.40	1.40	
22	.30	2.20	2.10	1.40	1.50	
23	.50	3.00	2.10	1.40	1.50	
24	.90	3.60	1.80	1.30	1.50	
25	.90	3.50	1.80	1.30	1.50	
26	.90	3.40	1.80	1.30	1.50	
27	1.00	2.50	1.80	1.30	1.50	
28	.90	1.90	1.80	1.30	1.50	
29	1.20	1.40	1.70	1.30	1.50	
30	1.70	2.00	1.80	1.30	1.50	
31	1.60		1.70	1.30		
Total Sec.Ft. Days	64.70	41.00	62.70	45.90	42.60	153 Day Period
Mean Sec.Ft.	2.09	1.37	2.02	1.48	1.42	1.68
Maximum Sec.Ft.	3.30	3.60	2.70	1.80	1.50	3.60
Minimum Sec.Ft.	.30	.00	1.40	1.30	1.30	.00
Total Acre Ft.	128	81.3	124	91.0	84.5	509

No record prior to May 1, 1945

TABLE 40

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
HARDGRAVE, NEER AND DOLPHIN LATERAL FROM MILL RACE DITCH AT HEAD
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	10.0	2.80	5.20	10.1	8.30	
2	13.5	2.70	5.10	10.1	8.30	
3	17.5	2.60	5.30	10.3	8.40	
4	16.7	2.50	5.40	9.90	9.30	
5	15.5	2.00	4.80	9.60	9.40	
6	14.0	2.00	4.60	9.40	9.40	
7	16.0	2.00	4.90	10.3	9.40	
8	18.3	2.00	4.90	9.60	9.40	
9	17.3	2.00	4.60	9.40	9.50	
10	17.7	1.50	4.40	9.40	9.40	
11	16.0	1.50	4.10	9.20	9.90	
12	5.00	2.00	4.00	9.00	9.90	
13	5.00	2.00	4.00	8.20	10.2	
14	5.00	2.00	4.00	8.80	10.2	
15	5.00	2.00	4.00	8.40	9.90	
16	5.00	2.00	3.00	8.20	9.70	
17	5.00	2.50	5.50	8.00	9.90	
18	5.00	2.60	5.50	8.00	9.00	
19	5.00	3.00	5.50	8.20	9.00	
20	5.00	3.00	5.50	8.40	9.20	
21	3.00	10.5	4.00	8.40	9.30	
22	1.50	13.2	4.00	8.20	9.90	
23	2.00	18.5	8.80	8.00	10.2	
24	3.00	22.2	12.0	7.80	10.4	
25	3.00	21.6	11.7	7.60	10.2	
26	3.00	21.0	11.7	7.60	10.0	
27	3.00	15.7	11.5	7.80	10.4	
28	3.00	11.9	11.5	7.80	10.5	
29	3.00	8.50	11.3	7.80	10.5	
30	3.00	10.8	11.5	7.60	10.5	
31	3.00		11.3	7.60		
Total Sec.Ft. Days	248.00	198.60	203.60	268.70	289.60	153 Day Period
Mean Sec.Ft.	8.00	6.62	6.57	8.67	9.65	7.90
Maximum Sec.Ft.	18.3	22.2	12.0	10.3	10.5	22.2
Minimum Sec.Ft.	1.50	1.50	3.00	7.60	8.30	1.50
Total Acre Ft.	492	394	404	533	574	2400

No record prior to May 1, 1945

TABLE 41

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
BLOOD SLOUGH FROM MILL RACE DITCH AT HEAD
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	10.0	11.0	14.8	7.30	5.60	
2	14.0	10.0	12.6	7.00	5.40	
3	18.0	9.00	15.5	7.00	5.30	
4	17.0	7.00	16.6	6.80	5.90	
5	16.0	6.50	12.6	6.50	5.90	
6	14.0	6.50	11.1	7.00	5.90	
7	16.0	9.00	13.3	7.00	5.90	
8	18.0	9.00	14.8	6.60	5.90	
9	18.0	9.00	15.5	6.30	5.90	
10	18.0	3.50	15.5	6.00	5.90	
11	16.0	4.50	15.2	5.80	6.20	
12	20.0	4.50	11.7	5.50	6.20	
13	21.0	7.00	10.5	5.60	6.30	
14	20.0	3.50	10.4	5.60	6.30	
15	18.0	4.50	7.60	5.50	6.20	
16	17.0	4.60	7.00	5.50	6.20	
17	20.0	11.0	8.10	5.10	6.20	
18	17.0	4.40	9.70	5.10	5.40	
19	17.0	19.0	12.0	5.50	5.70	
20	13.0	19.0	13.9	5.60	5.90	
21	9.00	14.0	16.6	5.50	5.90	
22	1.50	11.6	15.0	5.50	6.20	
23	3.00	15.7	13.9	5.50	6.30	
24	6.00	18.8	8.90	5.50	6.30	
25	5.50	18.4	8.40	5.40	6.30	
26	6.00	17.8	8.10	5.20	6.30	
27	7.00	12.1	7.80	5.40	6.30	
28	6.00	9.10	7.60	5.20	6.30	
29	11.0	6.60	7.30	5.20	6.30	
30	13.0	7.50	7.60	5.20	6.30	
31	12.0		7.60	5.20		
Total Sec.Ft. Days	418.00	294.10	357.20	181.10	180.70	153 Day Period
Mean Sec.Ft.	13.48	9.80	11.52	5.84	6.02	9.35
Maximum Sec.Ft.	21.0	19.0	16.6	7.30	6.30	21.0
Minimum Sec.Ft.	1.50	3.50	7.00	5.10	5.30	1.50
Total Acre Ft.	829	583	709	359	358	2840

No record prior to May 31, 1945

TABLE 42

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
COTTINGHAM LATERAL FROM MILL RACE DITCH AT HEAD
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	10.0	10.0	19.2	12.3	9.50	
2	13.0	9.00	15.4	12.6	9.50	
3	17.0	8.00	20.2	13.0	9.50	
4	16.0	7.00	21.7	12.4	10.6	
5	15.0	6.00	16.3	12.3	10.6	
6	13.0	6.00	24.4	11.4	10.6	
7	16.0	8.00	17.3	13.0	10.6	
8	18.0	7.00	19.2	12.2	10.6	
9	17.0	7.00	20.2	12.1	10.6	
10	18.0	2.00	20.2	12.4	10.6	
11	16.0	1.00	19.7	12.2	11.2	
12	19.0	6.00	18.1	12.1	11.2	
13	20.0	6.00	16.1	10.4	11.8	
14	20.0	5.00	16.0	11.6	11.8	
15	18.0	6.00	12.0	10.9	11.2	
16	18.0	6.00	15.2	10.5	11.2	
17	22.0	13.0	14.3	10.6	11.2	
18	19.0	12.0	12.9	10.6	9.80	
19	18.0	24.0	10.2	10.5	10.4	
20	15.0	24.0	9.20	10.8	10.6	
21	8.00	18.2	8.70	10.9	10.6	
22	1.50	14.2	9.40	10.5	11.2	
23	3.50	20.5	10.0	9.20	11.8	
24	6.00	24.8	13.9	9.80	11.8	
25	6.00	24.0	13.6	9.50	11.8	
26	7.00	23.3	12.9	9.70	11.5	
27	7.00	18.6	12.4	9.90	11.8	
28	6.00	14.1	12.6	10.1	12.0	
29	10.0	10.0	12.3	10.1	12.0	
30	12.0	11.5	12.6	9.70	12.0	
31	10.0		12.0	9.70		
Total Sec.Ft. Days	415.00	352.20	467.20	343.00	329.60	153 Day Period
Mean Sec.Ft.	13.39	11.74	15.11	11.07	10.99	12.46
Maximum Sec.Ft.	22.0	24.8	24.4	13.0	12.0	24.8
Minimum Sec.Ft.	1.50	1.00	8.70	9.20	9.50	1.00
Total Acre Ft.	823	699	927	680	654	3780

No record prior to May 1, 1945

TABLE 43

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
SNYDER DITCH FROM INDIAN CREEK AT LOWER BRIDGE #
April 24 to September 6, 1945

Day	April	May	June	July	Aug.	Sept.	
1		3.30	0.00	0.00	0.20	0.70	
2		3.50	.00	.00	.10	.80	
3		3.50	.00	.00	.00	1.00	
4		3.50	.00	.00	.00	.80	
5		3.70	.00	.00	.00	.20	
6		3.70	.00	.00	.00	.00	
7		3.70	.00	.00	.00		
8		3.70	.00	.00	.00		
9		3.70	.00	3.00	.00		
10		3.70	.00	3.50	.00		
11		3.70	.00	3.40	.00		
12		3.70	.00	3.20	.00		
13		3.50	.00	3.00	.00		
14		3.30	.00	3.00	.00		
15		2.50	.00	3.00	.00		
16		2.50	1.00	3.00	.00		
17		2.00	1.00	3.00	.00		
18		.00	1.00	3.00	.00	NO FLOW	
19		.00	3.90	3.00	.00		
20		.00	3.90	3.00	.00		
21		.00	3.90	2.90	.00		
22		.00	3.90	2.80	.00		
23		.00	3.50	2.80	.00		
24	3.00	.00	3.00	2.80	.00		
25	3.00	.00	3.00	2.80	.00		
26	3.00	.00	2.50	2.50	.00		
27	3.00	.00	2.00	2.50	.00		
28	3.00	.00	1.00	2.50	.00		
29	3.00	.00	.50	2.50	.10		
30	3.00	.00	.30	2.50	.40		
31		.00		.30	.60		
Total Sec.Ft. Days	* 21.00	57.20	34.40	64.00	1.40	**3.50	136 Day Period
Mean Sec.Ft.	* 3.00	1.85	1.15	2.07	.05	** .58	1.33
Maximum Sec.Ft.	* 3.00	3.70	3.90	3.50	.60	**1.00	3.90
Minimum Sec.Ft.	* 3.00	.00	.00	.00	.00	** .00	.00
Total Acre Ft.	* 41.7	113	68.2	127	2.78	**6.94	360

* 7 day period
** 6 day period
\# Pump operated 480 hours between August 4 and September 10, 1945, discharge 4.7 c.f.s.
No Diversion prior to April 24, 1945

TABLE 44

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
CURNOW DITCH FROM RED CLOVER CREEK AT HEAD
April 20 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		0.40	0.30	2.60	2.00	1.90	
2		.40	.50	2.40	2.00	1.90	
3		.40	.50	2.20	1.90	1.90	
4		1.50	.50	2.10	1.90	1.80	
5		2.20	.50	2.00	1.80	1.70	
6		2.20	.50	1.90	1.80	1.60	
7		2.10	.50	1.80	1.80	1.50	
8		2.10	.50	1.70	1.70	1.40	
9		2.10	.50	1.50	1.70	1.30	
10		2.00	.50	1.00	1.70	1.20	
11		2.00	2.00	1.00	1.60	1.10	
12		1.90	3.00	1.00	1.60	1.00	
13		1.80	3.00	1.00	1.60	.95	
14		1.70	3.00	1.00	1.50	.95	
15		1.60	2.90	1.50	1.50	.90	
16		1.55	2.70	1.50	1.50	.90	
17		1.50	2.70	1.50	1.50	.90	
18		1.40	2.70	1.50	1.50	.90	
19		1.30	2.70	1.50	2.30	.90	
20	2.00	1.20	2.70	1.40	2.20	.90	
21	2.00	.40	2.70	1.40	2.20	1.00	
22	1.80	.40	2.70	1.40	2.20	1.30	
23	1.60	.40	3.20	1.40	2.20	1.30	
24	1.50	.40	3.20	1.40	2.10	1.30	
25	1.50	.40	3.10	1.40	2.10	1.30	
26	1.50	.35	3.10	2.00	2.10	1.30	
27	1.50	.35	3.00	2.00	2.10	1.30	
28	1.00	.35	3.00	2.00	2.00	1.30	
29	.80	.35	2.90	2.00	2.00	1.30	
30	.50	.30	2.80	2.00	2.00	1.30	
31		.30		2.00	2.00		
Total Sec.Ft. Days	* 15.70	35.35	61.90	51.10	58.10	38.30	164 Day Period
Mean Sec.Ft.	* 1.43	1.14	2.06	1.65	1.87	1.28	1.59
Maximum Sec.Ft.	* 2.00	2.20	3.20	2.60	2.30	1.90	3.20
Minimum Sec.Ft.	* .50	.30	.30	1.00	1.50	.90	.30
Total Acre Ft.	* 31.1	70.1	123	101	115	76.0	516

* 11 day period
No record prior to April 20, 1945

TABLE 45

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
ROBINSON DITCH FROM INDIAN CREEK OPPOSITE FLOURNEY BRIDGE
April 20 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		0.00	5.15	5.25	3.00	1.30	
2		.00	5.15	5.20	3.00	1.25	
3		.00	5.15	5.15	2.95	1.25	
4		.00	5.20	5.15	2.90	1.25	
5		2.00	5.20	5.10	2.90	1.20	
6		2.50	5.25	5.05	2.85	1.20	
7		2.50	5.25	4.95	2.80	1.15	
8		2.95	5.25	4.70	2.75	1.15	
9		2.95	5.25	4.50	2.70	1.10	
10		2.95	5.25	4.35	2.60	1.10	
11		5.30	5.20	4.20	2.50	1.10	
12		5.30	5.20	4.10	2.45	1.05	
13		5.30	5.15	4.00	2.40	1.05	
14		5.30	5.15	3.80	2.30	1.05	
15		5.25	5.10	3.50	2.20	1.00	
16		5.25	5.10	3.30	2.15	1.00	
17		5.25	5.10	3.00	2.05	1.00	
18		5.25	5.05	2.80	1.95	1.00	
19		5.25	5.05	2.60	1.90	1.00	
20	3.00	5.25	5.05	2.45	1.85	1.00	
21	3.00	5.25	5.05	2.30	1.80	1.70	
22	2.80	5.25	5.05	2.10	1.75	1.90	
23	2.80	5.25	5.05	1.90	1.70	2.00	
24	2.60	5.25	5.00	1.70	1.65	1.90	
25	2.60	5.25	5.00	3.50	1.60	1.90	
26	2.50	5.25	5.00	3.40	1.55	1.90	
27	.00	5.20	5.00	3.30	1.50	1.85	
28	.00	5.20	5.00	3.20	1.45	1.85	
29	.00	5.20	5.00	3.20	1.40	1.85	
30	.00	5.20	5.25	3.10	1.35	1.85	
31		5.15		3.10	1.30		
Total Sec.Ft. Days	* 19.30	126.00	153.65	113.95	67.25	40.90	164 Day Period
Mean Sec.Ft.	* 1.75	4.07	5.12	3.68	2.17	1.36	3.18
Maximum Sec.Ft.	* 3.00	5.30	5.25	5.25	3.00	2.00	5.30
Minimum Sec.Ft.	* .00	.00	5.00	1.70	1.30	1.00	.00
Total Acre Ft.	* 38.3	250	305	226	133	81.1	1030

* 11 day period
No record prior to April 20, 1945

TABLE 46

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
WARD EAST DITCHES FROM WARD CREEK AT HEADS
April 27 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		1.50	1.10	1.60			
2		1.30	1.10	1.60			
3		1.30	1.10	1.60			
4		1.30	1.50	1.60			
5		1.30	1.50	1.50			
6		1.30	1.50	1.40			
7		1.30	1.50	1.30			
8		1.30	1.50	1.20			
9		1.60	1.50	1.10			
10		1.60	1.50	1.00			
11		1.60	1.50	.50			
12		1.60	1.50	.00			
13		1.60	1.50				
14		1.60	1.80				
15		2.00	1.80				
16		2.00	2.00				
17		2.00	2.00				
18		2.00	2.00				
19		2.00	1.00				
20		1.50	.80				
21		1.50	.80	NO FLOW	NO FLOW	NO FLOW	
22		1.50	.80				
23		1.50	.80				
24		1.50	.80				
25		1.50	.80				
26		1.80	.80				
27	2.00	1.80	.80				
28	2.00	1.80	1.60				
29	2.00	1.80	1.60				
30	1.80	1.20	1.60				
31		1.10					
Total Sec.Ft. Days	* 7.80	48.70	40.10	** 14.40			77 Day Period
Mean Sec.Ft.	* 1.95	1.57	1.34	** 1.20			1.44
Maximum Sec.Ft.	* 2.00	2.00	2.00	** 1.60			2.00
Minimum Sec.Ft.	* 1.80	1.10	.80	** .00			.00
Total Acre Ft.	* 15.5	96.6	79.5	** 28.6			220

* 4 day period
** 12 day period
No record prior to April 27, 1945

TABLE 47

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
WARD UPPER AND WARD MIDDLE WEST DITCHES FROM WARD CREEK AT HEADS
April 27 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.	
1		4.20	2.00	0.90	0.00	2.90	
2		4.20	2.00	.80	.00	2.90	
3		4.20	2.00	.80	.00	2.90	
4		4.20	2.00	.70	.00	2.90	
5		6.00	2.00	.70	.00	2.90	
6		6.00	2.00	.60	.00	2.90	
7		5.80	2.00	.60	.00	2.90	
8		5.80	2.00	.60	.00	2.90	
9		5.80	2.00	.60	.00	2.90	
10		5.70	2.00	1.00	1.00	2.90	
11		5.70	2.00	3.00	2.80	2.90	
12		5.60	2.00	4.00	2.90	3.00	
13		5.00	2.00	4.00	2.90	3.00	
14		4.00	2.00	4.00	2.90	3.00	
15		3.30	2.00	4.00	2.90	3.00	
16		3.20	1.80	4.00	2.90	3.00	
17		3.10	1.80	4.00	2.90	3.00	
18		3.00	1.80	3.80	2.90	3.00	
19		2.00	3.80	3.80	2.90	3.00	
20		1.20	3.70	3.50	2.90	3.00	
21		1.20	3.70	3.00	2.90	3.50	
22		1.20	3.70	3.00	2.90	3.50	
23		1.10	3.70	3.00	2.90	3.50	
24		1.10	3.70	3.00	2.90	3.50	
25		1.60	3.70	3.00	2.90	3.50	
26		2.00	3.50	3.00	2.90	1.00	
27	2.50	2.00	3.00	3.00	2.90	1.00	
28	2.50	2.00	1.50	3.00	2.90	1.00	
29	4.00	1.80	1.00	.00	2.90	1.00	
30	4.20	1.80	1.00	.00	2.90	1.00	
31		1.80		.00	2.90		
Total Sec.Ft. Days	* 13.20	106.20	71.40	69.40	61.80	81.40	157 Day Period
Mean Sec.Ft.	* 3.30	3.43	2.38	2.24	1.99	2.71	2.57
Maximum Sec.Ft.	* 4.20	6.00	3.70	4.00	2.90	3.50	6.00
Minimum Sec.Ft.	* 2.50	1.10	1.00	.00	.00	1.00	.00
Total Acre Ft.	* 26.2	211	142	138	122.6	162	800

* 4 day period
No record prior to April 27, 1945

TABLE 48

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
WARD PIPE LINE FROM WARD CREEK BELOW RIVER CROSSING
May 10 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		0.90	2.40	3.00	3.00	
2		.90	2.40	3.00	3.00	
3		.90	2.40	3.00	3.00	
4		.90	2.40	3.00	3.00	
5		.90	2.40	3.00	3.00	
6		.90	2.40	3.00	3.00	
7		.90	2.40	3.00	3.00	
8		.90	2.40	3.00	3.00	
9		.90	2.40	3.00	3.00	
10	2.80	.90	2.00	2.00	3.00	
11	3.00	2.00	1.00	1.80	2.80	
12	3.00	2.50	.00	1.80	2.80	
13	3.00	2.50	.00	1.80	2.80	
14	3.20	2.50	.00	1.80	2.80	
15	3.20	2.50	.00	1.80	2.80	
16	3.20	2.50	.00	1.80	2.80	
17	3.20	2.50	.00	1.80	2.80	
18	3.20	2.50	.00	1.80	2.80	
19	3.20	2.50	.00	1.80	2.80	
20	3.20	2.40	1.00	1.80	3.00	
21	3.00	2.40	2.00	1.80	3.20	
22	2.50	2.40	2.00	1.80	3.20	
23	2.00	2.40	2.00	1.80	3.20	
24	2.00	2.40	2.00	1.80	3.20	
25	1.80	2.40	2.00	2.00	3.20	
26	1.50	2.40	2.00	3.00	3.20	
27	1.40	2.40	2.00	3.00	3.20	
28	1.30	2.40	2.00	3.00	3.00	
29	1.20	2.40	3.00	3.00	3.00	
30	1.00	2.40	3.00	3.00	3.00	
31	.90		3.00	3.00		
Total Sec.Ft. Days	* 52.80	57.40	50.60	74.20	89.60	144 Day Period
Mean Sec.Ft.	* 2.40	1.91	1.63	2.39	2.99	2.25
Maximum Sec.Ft.	* 3.20	2.50	3.00	3.00	3.20	3.20
Minimum Sec.Ft.	* .90	.90	.00	1.80	2.80	.00
Total Acre Ft.	*105	114	100	147	178	644

* 22 day period
No diversion prior to May 10, 1945

TABLE 49

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
GRIZZLY UPPER DITCH FROM LITTLE GRIZZLY CREEK AT HEAD
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1	15.0	10.9	6.80	5.00	4.10	
2	15.0	10.9	6.70	5.00	4.10	
3	15.0	10.9	6.60	5.00	4.00	
4	15.0	10.9	6.50	5.00	3.90	
5	15.0	10.9	6.50	4.90	3.90	
6	15.0	10.9	6.40	4.90	3.90	
7	15.0	10.9	6.40	4.90	3.90	
8	15.0	10.8	6.40	4.80	3.90	
9	15.0	10.7	6.40	4.80	3.80	
10	15.0	10.6	6.40	4.80	3.80	
11	15.0	10.5	6.40	4.70	3.80	
12	15.0	10.4	6.40	4.70	3.70	
13	14.0	10.3	6.40	4.70	3.70	
14	13.5	10.2	6.20	4.70	3.70	
15	13.0	10.1	6.20	4.60	3.70	
16	15.0	10.0	6.00	4.60	3.70	
17	14.0	9.90	6.00	4.50	3.70	
18	13.0	9.80	5.80	4.50	3.70	
19	12.5	9.70	5.80	4.50	3.70	
20	12.0	9.60	5.60	4.60	3.70	
21	11.5	9.20	5.60	4.60	3.70	
22	11.3	8.80	5.60	4.50	4.00	
23	11.2	9.60	5.40	4.50	4.50	
24	11.2	8.80	5.40	4.40	4.50	
25	11.2	8.50	5.40	4.40	4.50	
26	11.1	8.20	5.20	4.30	4.40	
27	11.1	7.90	5.20	4.30	4.30	
28	11.0	7.70	5.20	4.30	4.20	
29	11.0	7.50	5.10	4.20	4.20	
30	10.9	7.00	5.10	4.20	4.20	
31	10.9		5.10	4.20		
Total Sec.Ft. Days	409.4	292.10	184.20	143.10	118.90	153 Day Period
Mean Sec.Ft.	13.21	9.74	5.94	4.62	3.96	7.50
Maximum Sec.Ft.	15.0	10.9	6.80	5.00	4.50	15.0
Minimum Sec.Ft.	10.9	7.00	5.10	4.20	3.70	3.70
Total Acre Ft.	812	579	365	284	236	2280

No record prior to May 1, 1945

TABLE 50

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
GUIDICI DITCH FROM DIXIE CREEK AT HEAD
May 15 to September 30, 1945

Day	May	June	July	Aug.	Sept.	
1		4.10	1.60			
2		4.00	1.10			
3		4.00	.90			
4		4.10	.70			
5		4.10	.60			
6		4.10	.50			
7		4.10	.30			
8		4.00	.20			
9		3.80	.10			
10		3.50	.00			
11		3.00				
12		2.50				
13		2.00				
14		2.00				
15	4.60	4.10				
16	4.50	4.10				
17	4.50	4.10				
18	4.50	4.10		NO FLOW	NO FLOW	
19	4.30	4.00				
20	4.30	3.90				
21	4.20	3.80	NO FLOW			
22	4.10	3.70				
23	4.10	3.60				
24	4.10	3.50				
25	4.10	3.30				
26	4.10	3.00				
27	4.10	2.70				
28	4.10	2.40				
29	4.10	2.10				
30	4.10	1.80				
31	4.10					
Total Sec.Ft. Days	* 71.90	103.50	** 6.00			57 Day Period
Mean Sec.Ft.	* 4.23	3.45	** .60			3.18
Maximum Sec.Ft.	* 4.60	4.10	** 1.60			4.60
Minimum Sec.Ft.	* 4.10	1.80	** .00			.00
Total Acre Ft.	*143	205	**11.9			360

* 17 day period
** 10 day period
No record prior to May 15, 1945

TABLE 51

NET DUTY OF WATER FOR ACREAGE IRRIGATED
FROM INDIAN CREEK AND ITS TRIBUTARIES
DURING THE PERIOD OF INVESTIGATION IN 1945

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1945	Total Acre Feet Diverted	Acreage Irrigated 1945	Net Duty for Period Ac.Ft per Acre	Net Duty for Period Acres per c.f.s.
		INDIAN CREEK IN INDIAN VALLEY					
54	Mill Race (Town laterals)	C. E. Young	6-20 to 9-30	401	28.1	13.8	14
54	Mill Race (Hardgrave, Neer and Dolphin lateral)	J. A. Hardgrave and L. E. Hardgrave H. C. Neer W. H. Dolphin	5-1 to 9-30	2400	471.2	5.1	60
54	Mill Race (Vanderhoeven lateral)	G. L. and Arah R. Vanderhoeven	5-1 to 9-30	509	132.6	3.8	79
54	Mill Race (Cottingham lateral)	Samuel F. and Hazel Brown Samuel F. and Hazel Brown and Fletcher Brown Paul Sobrero T. L. Hannon and H. S. Hannon George F. Osmeyer L. E. and Nellie Wheelock Albert A., Ernest J.,	5-1 to 9-30	3780	1327.4	2.9	106

TABLE 51 (CONT'D.)

NET DUTY OF WATER FOR ACREAGE IRRIGATED
FROM INDIAN CREEK AND ITS TRIBUTARIES
DURING THE PERIOD OF INVESTIGATION IN 1945

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1945	Total Acre Feet Diverted	Acreage Irrigated 1945	Net Duty for Period Ac.Ft per Acre	Net Duty for Period Acres per c.f.s.
		Chester M., and Arthur F. Toscani					
54	Mill Race (Blood Slough)	Samuel F. and Hazel Brown and Fletcher Brown Lee Johnson S. S. and Fay Openshaw Gerald and Phyllis Openshaw and E. M. and Dorothy Openshaw	5-1 to 9-30	2840	974.3	2.9	104
55	Snyder	W. A. Snyder & Sons Co.	4-24 to 5-17	548	200.5	2.7	80
56	Snyder Pump		6-16 to 9-10				
TOTALS AND MEANS INDIAN CREEK IN INDIAN VALLEY			150 day	10478	3134.1	3.3	89
		GENESEE VALLEY					
36	Robinson	J. L. and Elizabeth E. Robinson	5-11 to 7-15	661	270.0	2.5	53
35	Curnow	George L. Curnow	4-20 to 9-10	456	91.5	5.0	57

TABLE 51 (CONT'D.)

NET DUTY OF WATER FOR ACREAGE IRRIGATED
FROM INDIAN CREEK AND ITS TRIBUTARIES
DURING THE PERIOD OF INVESTIGATION IN 1945

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1945	Total Acre Feet Diverted	Acreage Irrigated 1945	Net Duty for Period Ac.Ft per Acre	Net Duty for Period Acres per c.f.s.
41	Ward Upper West	The Hosselkus Co.	4-27 to 9-25	790	124.5	6.3	47
42	Ward Middle West						
43	Ward East	The Hosselkus Co.	4-27 to 7-11	220	72.6	3.0	50
44	Ward Pipeline	The Hosselkus Co.	5-10 to 9-30	644	94.6	6.8	42
48	Grizzly Upper	The Hosselkus Co.	5-1 to 9-30	*2280	*77.1	*30.0	*10
TOTALS AND MEANS		GENESEE VALLEY	122 day	2771	653.0	4.2	53
* Gross Duty of Water (Not used in total and means)							
		WOLF CREEK					
67	Schieser	Tony and Vivian Miller Neal O. Start Wesley T. Wheeler, et al.	6-21 to 8-9	281	291.0	1.0	103
68	Forgay and Frederickson	C. G. and Helen V. Frederickson James L. Martin	6-22 to 8-29	326	275.0	1.2	115

TABLE 51 (CONT'D.)

NET DUTY OF WATER FOR ACREAGE IRRIGATED
FROM INDIAN CREEK AND ITS TRIBUTARIES
DURING THE PERIOD OF INVESTIGATION IN 1945

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1945	Total Acre Feet Diverted	Acreage Irrigated 1945	Net Duty for Period Ac.Ft per Acre	Net Duty for Period Acres per c.f.s.
69	McIntosh	Frank H. McIntosh	6-14 to 7-18	240	260.0	0.9	75
70	Forgay	James L. Martin					
TOTALS AND MEANS ON WOLF CREEK			53 day	847	826.0	1.0	103
		LICKS CREEK					
88	Freeman and Bates	E. R. Bates James T. Freeman	6-11 to 7-8	128	175.5	0.7	76
89	Defanti and Smith	Ralph Defanti F. R. Smith Wilbur Burns W. S. Quigley, et ux	6-11 to 7-13	263	250.0	1.1	62
90	Burns	Wilbur Burns	6-11 to 7-14	29	48.1	0.6	112
91	Quigley Upper	W. S. Quigley, et ux	6-19 to 7-17	88	172.4	0.5	113
92	Quigley Middle	W. S. Quigley, et ux	6-13 to 7-8	70	152.2	0.5	112
93	Peter Upper	James R. Peter Arthur Peter	6-18 to 7-13	117	157.9	0.7	69
95	Peter Lower	Arthur Peter	6-18 to 7-6	52	90.0	0.6	65

TABLE 51 (CONT'D.)

NET DUTY OF WATER FOR ACREAGE IRRIGATED
FROM INDIAN CREEK AND ITS TRIBUTARIES
DURING THE PERIOD OF INVESTIGATION IN 1945

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1945	Total Acre Feet Diverted	Acreage Irrigated 1945	Net Duty for Period ac.Ft per Acre	Net Duty for Period Acres per c.f.s.
94	Quigley and Cliff	W. S. Quigley, et ux Walter E. Cliff	6-15 to 7-14	147	165.0	0.9	67
TOTALS AND MEANS ON LIGHTS CREEK			29 day	894	1211.1	0.7	78
		CLOVER VALLEY					
16	Guidici Dixie	R. C. Conklin	5-10 to 6-30	348	266.0	1.3	71

APPENDIX

DESCRIPTION OF DIVERSION SYSTEMS

DESCRIPTION OF DIVERSION SYSTEMS

The diversion systems from Indian Creek and its tributaries taken consecutively from 1 to 143, inclusive, as numbered on the Division of Water Resources Map, are described below. Summaries of these descriptions have been heretofore submitted in Tables 2, 3 and 4. Table 2 sets forth the name of each diversion system, the number assigned to the point of diversion thereof and the location of the point of diversion by bearing and distance from an established corner of the public land surveys. In Table 3 the diversion numbers, the names of diversions and acreages under each diversion are listed alphabetically by owners' names. In Table 4 the numbers of the various diversion systems consecutively from 1 to 143, inclusive, the names of the respective owners thereof, the type and dimensions of the various dams and headgates, the type, dimensions and capacity of each conduit and the total acreage irrigated under each diversion system have been tabulated.

Diversion 1 is that of the dam and outlet works controlling the storage of water in Taylor Lake near the headwaters of Hungry Creek a tributary of Indian Creek. The outlet is located within the NE¼ SW¼ of Section 35, T. 27 N., R. 11 E., M.D.B. and M.

The dam is an earth and rubble structure approximately one-hundred sixty feet long and twelve feet high. The outlet consists of a six inch steel pipe under the dam with a six inch gate valve at the outlet end. A supplementary outlet consisting of a four inch pipe siphon laid over the top of the dam has been used at times to increase the rate of release. The available storage capacity of Taylor Lake is approximately

200 acre feet.

The stored water is released down the natural channel of Hungry Creek and is rediverted through the Robinson Ditch (Diversion 36) for use on the lands of J. L. and Elizabeth E. Robinson.

The discharge through the six inch outlet pipe was measured as 1.80 cubic feet per second on August 5, 1945, with approximately seven feet of water over the inlet to the pipe. The maximum discharge of the four inch siphon would be approximately 0.25 cubic foot per second.

The project is further described under Application 8460 in the chapter on Applications before the Department of Public Works.

Diversion 2 is that of the Boulder Creek Ditch from the east side of Boulder Creek in the SW¼ SE¼ of Section 10, T. 27 N., R. 12 E., M.D.B. and M.

A temporary sand and gravel dam about eight feet long and one foot high is used to divert water into the conduit which consists of an earth ditch about 0.4 mile in length. The main conduit terminates in the NW¼ NE¼ of Section 15, T. 27 N., R. 12 E., M.D.B. and M.

The ditch is used to irrigate a total of 12.0 acres of meadow pasture near the Boulder Creek Ranger Station by the United States Department of Agriculture. The ditch has an estimated capacity of about 1.0 cubic foot per second.

No record of discharge was collected in 1945.

Diversion 3 is that of the Antelope North Ditch from the west side of Antelope Creek in the SE¼ NE¼ of Section 24, T. 27 N., R. 12 E., M.D.B. and M.

No diversion dam has been in use for several years to divert water into the conduit which consists of an earth ditch leading directly

described under Diversion 8.

No use of water was made on the property in 1945.

Diversion 10 is that of the Rowland Dixie Creek Ditch from the east side of Dixie Creek in the SW¼ NW¼ of Section 17, T. 24 N., R. 15 E., M.D.B. and M.,

A low sod diversion dam is used to divert water into the conduit which also serves as a collecting ditch for a group of springs in the meadow near its head. The conduit consists of an earth ditch which carries water around the edge of the meadow. A total area of 21.7 acres of meadow pasture is irrigated from the ditch on the Clark C. Rowland property on Dixie Creek.

No use of water was made in 1945 as the ditch was in poor repair.

Diversion 11 is that of the Dixie Upper West Ditch from the west side of Dixie Creek in the NE¼ SE¼ of Section 4, T. 24 N., R. 14 E., M.D.B. and M.

A concrete diversion dam forty feet long by eight feet high is used to divert water into the conduit which consists of an earth ditch about one and one-half miles in length to where it enters the irrigated land in the NE¼ NE¼ of Section 8, T. 24 N., R. 14 E., M.D.B. and M. One lateral branches off from the main ditch about midway of its length.

Diversion 11 is used in conjunction with Diversions 12, 13, 14 and 15 to irrigate 614.3 acres of meadow pasture on the Westover Co. Ranch in Red Clover Valley. The estimated capacity of the conduit is about 4.0 cubic feet per second.

Diversions 11 and 12 diverted the entire flow of the creek as given in Table 22.

Diversion 12 is that of the Dixie Upper East Ditch from the east side of Dixie Creek in the NE¼ SE¼ of Section 4, T. 24 N., R. 14 E., M.D.B. and M.

The same diversion dam used for Diversion 11 is used to divert water into the conduit which consists of a slough or wash about one mill in length to where it enters the irrigated land in the NE¼ NW¼ of Section 9, T. 24 N., R. 14 E., M.D.B. and M. A 24 inch culvert pipe with a screw gate regulates the water entering the slough which is protected from a washout into the creek below the dam by a reinforced concrete wall about six feet high and sixty feet long across the head of the wash. A check dam is maintained in the wash about one-half mile from the head to force water into a high line lateral nearly one-half mile in length.

Diversion 12 is used in conjunction with Diversions 11, 13, 14 and 15 to irrigate 614.3 acres of meadow pasture on the Westover Co. Ranch. The estimated capacity of the conduit is about 10.0 cubic feet per second. Diversions 11 and 12 diverted the entire flow of the creek as given in Table 22.

Diversions 13, 14 and 15 are those of the Dixie Upper Meadow, Dixie Middle Meadow and Dixie Lower Meadow Dams from both sides of Dixie Creek in the NW¼ NE¼ and NE¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B. and M.

The diversion works consist of rubble concrete dams about sixteen feet long and four feet high at the upper diversions and a timber box dam about eight feet long and four feet high at the lower diversion. The conduits are either short earth ditches which immediately enter the irrigated land or the land is irrigated by seepage and overflow from the creek channel.

The diversions are used in conjunction with Diversions 11 and

12 as described under Diversion 11 to irrigate 614.3 acres of meadow pasture on the Westover Co. Ranch. No measurements were made of the capacities of the diversions nor of the amount diverted in 1945.

Diversion 16 is that of the Guidici Dixie Ditch from the south side of Dixie Creek in the NW¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B. and M.

A wooden box dam two feet wide by three feet high is used to divert water into the conduit which consists of an earth ditch about one and three tenths miles in length to its lower extremity in the NE¼ NW¼ of Section 12, T. 24 N., R. 13 E., M.D.B. and M. A three feet by one foot flume about three hundred feet in length near the head of the ditch conveys the water across Dixie Creek for use on the north side of the creek. Water is taken from the ditch throughout its length above and below the flume for use on the adjoining land. Division 29 from Red Clover Creek delivers water into Dixie Creek a short distance above Diversion 16 for rediversion to augment the water supply from Dixie Creek.

An area of 266.0 acres of meadow pasture is irrigated from the ditch on the R. C. Conklin Ranch. The capacity of the ditch was measured as approximately 6.00 cubic feet per second.

The amount of water diverted by the ditch in 1945 has been tabulated in Table 50.

Diversion 17 is that of the Upper Dotta Neck Wash from the west side of Dotta Canyon in the NW¼ NW¼ of Section 36, T. 24 N., R. 14 E., M.D.B. and M.

No diversion dam is required as overflow during high water floods the meadow and later seepage from the gravelly channel subirrigates the area until late in the summer.

An area of 118.7 acres of meadow pasture is irrigated from the diversion on the J. H. Hayes property.

No records of use of water were collected in 1945.

Diversion 18 is that of the North Spring from an area of effluent seepage in the SW¼ NE¼ of Section 26, T. 24 N., R. 14 E., M.D.B. and M.

The water naturally seeps over the area irrigated from the spring as no drainage channel is available to convey the water away.

An area of 28.2 acres of meadow pasture is irrigated from the spring area on the J. H. Hayes property.

No records of use were collected in 1945.

Diversions 19, 20, 21 and 22 are those of the Clover Upper, Clover Middle, Clover North Meadow and Clover South Meadow Ditches from both sides of Dotta Canyon in the SE¼ NW¼ and NW¼ NW¼ of Section 26 and SE¼ SE¼ of Section 22, both in T. 24 N., R. 14 E., M.D.B. and M.

The dams at Diversions 19 and 20 have been destroyed and washed around by high water which has cut new channels preventing any diversion in 1945. Board and sod dams are used at Diversions 21 and 22 to divert water from the shallow creek channel. Earth ditches lead directly from the diversions onto the irrigated land.

An area of 112.5 acres of meadow pasture is irrigated from the diversions on the J. H. Hayes property. The capacities of the ditches are ample to irrigate the area served.

No records of use were collected in 1945 as very little water was used.

Diversions 23, 24 and 25 are those of the Clover Lower Ditch from the north side of Dotta Canyon in the SE¼ NW¼ of Section 22; Spring Channel Upper Ditch from both sides of Spring Channel in the NW¼ SE¼ of Section 22; and Spring Channel Lower Ditch from the south side of Spring Channel in the SW¼ NW¼ of Section 22, all in T. 24 N., R. 14 E., M.D.B. and M.

No dam has been maintained at Diversion 23 since the creek cut a new channel across the meadow. The flow of Dotta Canyon at this point is negligible after the spring freshets and a ditch has been constructed from Diversion 24 to permit the use of water from the Spring channel on the area.

Board and sod dams are used at Diversions 24 and 25 to divert water into the conduits which are earth ditches diverting directly onto the irrigated land. The ditches continue through the irrigated land for one-fourth mile or more to reach the outer edges of the area served. The conduit from Diversion 25 intercepts the flow of Crocker Creek below Diversion 26 and utilizes any excess water from that source also.

A total area of 203.9 acres of meadow pasture is irrigated from the diversions on the J. H. Hayes property. The estimated size and capacities of the ditches are tabulated in Table 4.

The only use made in 1945 was from Diversion 25 from which about twenty five acres were irrigated. No record of the use was collected.

The discharge of the spring channel was constant throughout the summer at about 0.75 cubic foot per second.

Diversion 26 is that of the Crocker Creek Ditch from the north side of Crocker Creek in the SE¼ NE¼ of Section 21, T. 24 N., R. 14 E., M.D.B. and M.

A board and gravel dam is used to divert water into a short earth conduit leading directly onto the irrigated land.

An area of 17.7 acres of meadow pasture is irrigated from the ditch on the J. H. Hayes property. Any water in the creek in excess of that required for the above area is utilized by Diversion 25.

No record of use was collected in 1945.

Diversion 27 is that of the Crocker Old Channel Ditches from both sides of Crocker Creek in the NW¼ NE¼ of Section 21, T. 24 N., R. 14 E., M.D.B. and M.

An old timber dam about eight feet wide by four feet high is used to divert water directly onto the irrigated land through short earth ditches on each side of the creek. About three-tenths mile above the diversion an earth dam has been placed in the badly washed creek channel completely stopping direct flow to the dam. The stream now flows through a side channel which leads to Diversion 26. Consequently in 1945, Diversion 27 was entirely dependent on drainage from the adjoining side hill and from seepage occurring in the creek channel between the earth dam and the diversion.

An area of 28.9 acres of meadow pasture is irrigated from the diversion on the J. H. Hayes property.

No record of use was collected in 1945.

Diversion 28 is that of the Clover Overflow from Red Clover Creek in the SW¼ SW¼ of Section 9, T. 24 N., R. 14 E., M.D.B. and M.

The channel of the creek is largely filled with sand and debris so that the water naturally spreads over the meadow before draining into the channel a short distance below.

An area of 58.5 acres of meadow pasture is irrigated from the diversion on the Westover Co. ranch in Red Clover Valley.

Diversion 29 is that of the Guidici Clover Ditch from the north side of Red Clover Creek in the SW¼ NW¼ of Section 8, T. 24 N., R. 14 E., M.D.B. and M.

A timber dam sixteen feet wide by eight feet high is used to divert the water into the conduit which consists of about five hundred feet of wooden flume followed by about six hundred feet of earth ditch to its junction with Dixie Creek about four hundred feet above Diversion 16. Diversion 29 is used to supply supplementary water to the area irrigated by Diversion 16 on the R. C. Conklin ranch when the flow in Dixie Creek is inadequate to fill the requirements. The estimated capacity of the conduit is about 4.0 cubic feet per second.

The dam and ditch were not used in 1945.

Diversion 30 is that of the Pratt Upper Ditch from a branch channel of Red Clover Creek in the NE¼ SE¼ of Section 6, T. 25 N., R. 12 E., M.D.B. and M.

A loose rock dam is used to divert water into a shallow wash between the creek channels. About four hundred feet below the head of the wash a board and sod dam is maintained to force the water out into a short earth ditch which delivers the water onto the irrigated land.

Diversion 30 in conjunction with Diversions 31 and 32 is used to irrigate 8.8 acres of meadow pasture on the Frank H. Pratt ranch. The ditch has an estimated capacity of about 1.0 cubic foot per second.

No record of use was collected in 1945.

Diversion 31 is that of the Pratt Lower Ditch from the south side of a branch channel of Red Clover Creek in the E½ of Lot 1 of Section

6, T. 25 N., R. 12 E., M.D.B. and M.

A loose rock and gravel dam is used to divert water into the conduit which consists of a short earth ditch leading directly onto the irrigated land. The ditch has an estimated capacity of about one cubic foot per second.

Diversion 31 is used in conjunction with Diversions 30 and 32 as described under Diversion 30.

No record of use was collected in 1945.

Diversion 32 is that of the Pratt House Ditch from the south side of Red Clover Creek in the E½ of Lot 2 of Section 6, T. 25 N., R. 12 E., M.D.B. and M.

A loose rock dam is used to divert water into the conduit which consists of an earth ditch about four hundred feet in length. The ditch is used to convey water to the Frank H. Pratt ranch buildings for domestic and garden purposes on 0.10 acre of land. The ditch has an estimated capacity of about 0.20 cubic foot per second.

No record of use was kept in 1945.

Diversion 33 is that of the Curnow Upper Ditch from a branch channel of Red Clover Creek in the E½ of Lot 2 of Section 6, T. 25 N., R. 12 E., M.D.B. and M.

The ditch was not used in 1945 due to the dam having been washed out during a recent highwater. The conduit is an earth ditch about 0.2 mile in length to the place of use. The land normally irrigated from the ditch on the George L. Curnow ranch was irrigated from Diversion 34 in 1945.

Diversion 34 is that of the Curnow Pasture Ditch from the north side of a branch channel of Red Clover Creek in the W½ of Lot 2

of Section 6, T. 25 N., R. 12 E., M.D.B. and M.

A loose rock and manure dam is used jointly with Diversion 35 to divert water into the conduit which consists of a short earth ditch leading directly onto the irrigated land between the two branches of the creek.

An area of 5.3 acres of meadow pasture is irrigated from the ditch on the George L. Curnow ranch. The ditch has an estimated capacity of about 2.0 cubic feet per second.

No record of use was collected in 1945.

Diversion 35 is that of the Curnow Ditch from the south side of a branch channel of Red Clover Creek in the W½ of Lot 2 of Section 6, T. 25 N., R. 12 E., M.D.B. and M.

The dam described under Diversion 34 diverts water into a conduit which consists of an earth ditch about 0.6 mile in length to its lower end in Lot 6 of Section 6, T. 25 N., R. 12 E., M.D.B. and M.

An area of 91.3 acres of meadow hay, meadow pasture, alfalfa, clover, orchard and garden is irrigated from the ditch on the George L. Curnow ranch. The capacity of the ditch was measured as 4.0 cubic feet per second.

A 3-foot rectangular weir was installed near the head of the ditch for measuring the discharge which has been tabulated in Table 44.

Diversion 36 is that of the Robinson Ditch from the north side of Indian Creek in the NW¼ SW¼ of Section 32, T. 26 N., R. 12 E., M.D.B. and M.

A low concrete dam and wing wall about thirty feet long and two feet high is used to divert water into the conduit which consists of

about seven hundred feet of twenty-two inch pipe and fourteen hundred feet of sixteen inch pipe followed by about three miles of earth ditch to its terminus in the SE¼ SE¼ of Section 3, T. 25 N., R. 11 E., M.D.B. and M. The ditch follows the edge of the valley floor above the irrigated land.

The P. R. Evans property has three taps on the conduit. The first outlet is about three hundred feet below the head of the pipe line and consists of a short section of four inch pipe fitted with an adjustable orifice at its outer end. A discharge of 0.29 cubic foot per second through the orifice was measured on July 20, 1945. A short distance below the above described outlet a second tap is maintained to supply domestic water for home use. The last tap is about nine hundred feet below the end of the pipe line and is used to supply water for a mill pond and sawmill.

The first lateral on the Robinson ranch is about 1.1 miles below the end of the pipe line, other laterals take out where needed along the course of the ditch.

A total area of 335.0 acres of meadow hay and pasture, grain, clover, alfalfa and truck is irrigated from the diversion on the following tracts:

Owner	Normal Maximum Irrigated Acreage
J. L. and Elizabeth E. Robinson	320.9
* P. R. Evans	14.1
Total	335.0

* Irrigation water may also be taken through Diversion 37.

The diversion system has a maximum capacity of about ten cubic feet per second. However, the irrigating head used during the investigation was limited to about 5.30 cubic feet per second by the condition of the

conduit. Ditch losses have been discussed in the chapter on Losses and Accretions in Channels and Ditches.

A rating station was established on the ditch above the upper Robinson lateral and a record of discharge for the 1945 season at that point has been tabulated in Table 45.

Diversion 37 is that of the Evans Ditch from the north side of Indian Creek in the NE¼ SE¼ of Section 31, T. 26 N., R. 12 E., M.D.B. and M.

A concrete dam and bridge structure twenty-five feet long and seven feet high is used to divert water into the conduit which consists of a short earth ditch leading directly onto the irrigated land.

The water diverted is used to supplement the use from the Robinson Ditch (Diversion 36) on the P. R. Evans property. The capacity of the ditch is about 2.0 cubic feet per second.

No use of water was made by the ditch in 1945.

Diversion 38 is that of the Goodhue Ditch from the east side of Ward Creek in the NW¼ NW¼ of Section 23, T. 25 N., R. 11 E., M.D.B. and M.

A picket type dam twelve feet long and three feet high and faced with rock and gravel is used to divert water into the conduit which consists of about eighteen hundred feet of earth ditch followed by about six hundred feet of sixteen inch steel pipe. A regulating gate and spillway is maintained about midway of the earth ditch.

The water is used to operate a power wheel for mining operations on the claim of J. W. Goodhue and is then returned to the creek above other diversions. The conduit has a maximum capacity of about six cubic feet per second.

Diversions 39 and 40 are those of the Sobrero East Ditch from the east side of Ward Creek in the NW¼ SW¼ of Section 14, and the Sobrero West Ditch from the west side of Ward Creek in the NE¼ SE¼ of Section 15, both in T. 25 N., R. 11 E., M.D.B. and M.

Neither of the diversions has been used for several years and the dams and ditches have been seriously damaged by high water.

A total area of 5.3 acres of mixed crops have been irrigated in the past from the ditches on the property of the Mary Sobrero heirs.

Diversion 41 is that of the Ward Upper West Ditch from the west side of Ward Creek in the SE¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B. and M.

A temporary picket type dam eighteen feet long and two feet high and faced with gravel is used to divert water into the conduit which consists of an earth ditch which follows the outer edge of the irrigated land for approximately one mile into the NW¼ NW¼ of Section 15, T. 25 N., R. 11 E., M.D.B. and M. A lateral branches from the main ditch about fifty feet below the diversion works and follows the creek bank. It receives supplementary water from Diversion 42 about four hundred and fifty feet below its head. The main ditch and the lateral are both tapped wherever needed to irrigate the land along their courses.

A total area of 124.5 acres of meadow, grain and alfalfa is irrigated from Diversion 41 in conjunction with Diversion 42 on The Hosselkus Company property. The conduit has a capacity at its head of about six cubic feet per second.

Rectangular weirs were placed in the main ditch below the upper lateral and in the lateral near its head to measure the discharge from the diversion. The amount of water diverted has been combined with

that diverted from Diversion 42 and has been tabulated in Table 47.

Diversion 42 is that of the Ward Middle West Ditch from the west side of Ward Creek in the SE¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B. and M.

A concrete dam twelve feet long and six feet high is used jointly with Diversion 42 to divert water into the conduit which consists of an earth ditch about one hundred sixty feet long to where it joins the upper lateral from Diversion 41.

The water is used to irrigate a portion of the area listed under Diversion 42 on The Hosselkus Company property. The capacity of the ditch is about three cubic feet per second.

The amount of water diverted has been combined with the discharge from Diversion 41 and has been tabulated in Table 47. A 3-foot rectangular weir was used to measure the amount of water diverted.

Diversion 43 is that of the Ward East Ditch from the east side of Ward Creek in the SE¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B. and M.

The dam described under Diversion 42 is used to divert water into a small pond created by constructing a levee from the dam to the high ground east of the creek. Two outlet pipes through the levee release the water into three small ditches which lead directly onto the irrigated land. The outside ditch next to the high ground continues for about one-half mile around the edge of the irrigated area.

A total area of 72.6 acres of meadow hay, grain and alfalfa is irrigated from the ditch system on The Hosselkus Company property. The combined capacity of the three ditches is about four cubic feet per second.

Rectangular weirs were installed in the three ditches and a record of discharge maintained which has been tabulated in Table 46.

Diversion 44 is that of the Ward Pipe line from the west side of Ward Creek in the NW¼ NE¼ of Section 15, T. 25 N., R. 11 E., M.D.B. and M.

A temporary picket and manure dam about twenty feet long and three feet high is used to divert water into the conduit which consists of seventeen hundred feet of sixteen and twenty-two inch diameter pipe followed by about one-half mile of earth ditch. The pipe line begins with four hundred feet of the smaller pipe which delivers the water into a short section of ditch at the head of the larger pipe. Originally a concrete dam was used at the head of the larger pipe to divert water from the creek but subsequent to its failure the smaller pipe was laid upstream in the channel to pick up the water. The pipe line at its lower end crosses Indian Creek on a high wooden trestle and releases the water into an earth ditch which follows around the hillside from the end of the trestle for about four-tenths mile to the first tap.

An area of 94.6 acres of meadow hay, grain and alfalfa is irrigated from the ditch on the north side of Indian Creek on The Hosselkus Company property. The maximum capacity of the conduit is about three and one-half cubic feet per second.

A rating station was established in the conduit at the head of the ditch section north of the creek and records of discharge collected which have been tabulated in Table 48.

Diversion 45 is that of the Hosselkus Ditch from the east side of Hosselkus Creek in the NE¼ NW¼ of Section 9, T. 25 N., R. 11 E.,

M.D.B. and M.

A gravel dam about ten feet long and one foot high is used to divert water into the conduit which consists of a short earth ditch.

An area of 46.8 acres of grain is irrigated from the ditch on The Hosselkus Company property. The capacity of the ditch is about three cubic feet per second.

No record of use was made due to the short time that water was available for diversion.

Diversions 46 and 47 are those of the Walker Flume and Walker Pipe from Dolly Gulch Creek in the NW¼ NW¼ of Section 8, T. 24 N., R. 12 E., M.D.B. and M.

The diversion system has been fully described under Application 89 in the chapter on Applications Before the Department of Public Works.

Diversion 48 is that of the Grizzly Upper Ditch from the east side of Little Grizzly Creek in the SE¼ SW¼ of Section 17, T. 25 N., R. 11 E., M.D.B. and M.

A log and rock dam about twenty-four feet long and four feet high is used to divert water into the conduit which consists of an earth ditch about one thousand feet in length to a division. Below the division one branch six-tenths mile in length conveys water onto the meadow land. The other branch skirts around the side hill for about nine-tenths mile to where it is spilled down the hill into a small wooden forebay at the head of a twelve inch pipe line about one half mile in length which conveys the water across Indian Creek and into the Town of Genesee where it is used for domestic and irrigation purposes.

A total area of 96.8 acres of meadow hay and pasture, clover, grain, alfalfa, orchard and truck is irrigated by the diversion in conjunction with Diversion 49 on The Hosselkus Company property. Of the above total acreage, 24.9 acres are north of Indian Creek and are irrigated by means of the pipe line. The capacity of the meadow lateral is about ten cubic feet per second and that of the pipe line lateral about three cubic feet per second.

A rating station was maintained at the head of the ditch and the records of discharge at that point have been tabulated in Table 49.

Diversion 49 is that of the Grizzly Lower Ditch from the east side of Little Grizzly Creek in the NW¼ NE¼ of Section 17, T. 25 N., R. 11 E., M.D.B. and M.

A loose rock and gravel dam about fourteen feet long and one foot high is used to divert water into the conduit which consists of an earth ditch about three-tenths mile in length to where it enters the irrigated land.

The ditch is used in conjunction with Diversion 48 to irrigate a portion of the area listed under that diversion on The Hosselkus Company property. The capacity of the ditch is about four cubic feet per second.

No record of use of water was collected for the ditch.

Diversion 50 is that of the Beacom Ditch from the north side of Indian Creek in the N½ of Lot 9 of Section 7, T. 25 N., R. 11 E., M.D.B. and M.

A loose rock dam about six feet long and one foot high is used to divert water from a small side channel into the conduit which consists of an earth ditch about sixteen hundred feet in length to where

it enters the irrigated area. The ditch continues about another one-fourth mile to supply domestic water at the ranch buildings.

An area of 18.0 acres of meadow pasture and orchard is irrigated from the ditch on the W. J. and C. G. Beacom property. The capacity of the ditch is about one cubic foot per second.

No record of use of water was collected in 1945.

Additional details regarding the use of water is described under Application 10809 in the chapter on Applications Before the Department of Public Works.

Diversion 51 is that of the Barnes East Ditch from the east side of Indian Creek in the SE¼ NW¼ of Section 12, T. 25 N., R. 10 E., M.D.B. and M.

A log, brush and rock dam about sixty feet long and four feet high is used to divert water into the conduit which consists of an old slough for about one thousand feet followed by about an equal length of earth ditch to the place of use in SW¼ SW¼ of Section 1, T. 25 N., R. 10 E., M.D.B. and M.

An area of 16.1 acres of meadow hay and pasture, grain, truck and yard is irrigated from the ditch on the William F. Masters ranch. The ditch has a capacity of about one and one-half cubic feet per second but normally diverts about one cubic foot per second.

No record of use was collected in 1945.

Diversion 52 is that of the Barnes West Ditch from the west side of Indian Creek in the NW¼ NW¼ of Section 12, T. 25 N., R. 10 E., M.D.B. and M.

A log, brush and rock dam sixty feet long and four feet high is used to divert water into the conduit which consists of an earth

ditch about seven-tenths mile in length. A lateral branches from the main ditch about three-tenths mile below the head to irrigate high ground near the creek. The main ditch follows along the base of the hill to the lower portion of the irrigated area.

An area of 50.2 acres of meadow hay and pasture, grain and orchard is irrigated from the ditch on the William F. Masters ranch. The capacity of the ditch is about two cubic feet per second and the normal irrigating head about one cubic foot per second.

No record of use was collected in 1945.

Diversion 53 is that of the Taylorsville Ditch from the north side of Montgomery Creek about one-half mile above Indian Creek in the SE¼ NE¼ of Section 11, T. 25 N., R. 10 E., M.D.B. and M.

A loose rock and gravel dam about ten feet long and one foot high is used to divert water into the conduit which consists of an earth ditch about two miles in length to its end where it supplies a distribution system in the Town of Taylorsville in the SE¼ NE¼ of Section 34, T. 26 N., R. 10 E., M.D.B. and M. A settling basin and head box at the terminus of the ditch is tapped by a seven inch steel pipe about 1200 feet in length which conveys water into the Town of Taylorsville where a distribution system delivers water to some twenty building lots for domestic purposes. A second pipe three inches in diameter and about six hundred feet in length takes out of the settling basin at a higher elevation than the seven inch outlet and distributes water to some six building lots also in the Town of Taylorsville. About five hundred feet above the settling basin at the end of the ditch a smaller outlet taps the ditch to supply water for use in the Taylorsville cemetery.

Creek both in the SE¼ SE¼ of Section 6, T. 26 N., R. 10 E., M.D.B. and M.

A temporary picket dam about eighteen feet long by three feet high is used to divert water into the conduits which consist of earth ditches diverting directly onto the irrigated land on both sides of the creek.

The diversions are used to supply supplementary water to a portion of the areas heretofore described under Diversions 69 and 70 on the Frank H. McIntosh and James L. Martin ranches, respectively. The capacity of each ditch is about 3.0 cubic feet per second.

Water was not used under these diversions in 1945.

Diversion 73 is that of the Wheelock Ditch from the north side of Wolf Creek in the SW¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B. and M.

A board and sod dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length to where it enters a drainage canal along the northerly edge of the irrigated land. There are several takeouts along the course of the ditch and also along the drainage canal.

An area of 95.6 acres of meadow hay and pasture, and grain on the L. E. Wheelock ranch is irrigated from the ditch. The capacity of the ditch is large when clean but is subject to filling from sand washed from the creek.

No record of use of water was collected in 1945 as a portion of the water used came from Diversion 71.

Diversion 74 is that of the Perry Ditch from the north side of Wolf Creek in the SE¼ SW¼ of Section 5, T. 26 N., R. 10 E., M.D.B. and M.

A wooden box dam is used to divert water into the conduit which consists of an earth ditch about six-tenths mile in length to the drainage

canal near the north edge of the irrigated land. Several takeouts tap the ditch along its course.

The creek channel above Diversion 74 is badly filled with sand so that during seasons of ample water supply much of the area above and below the Perry Ditch is subject to overflow making it unnecessary to use the ditch. Also, backwater from the Wolf Creek swamp occasionally reaches up as far as the Perry Ditch.

An area of 126.9 acres of meadow hay and pasture on the W. B. Perry, R. L. Perry and Susie Perry and Ivy May Heald ranch is irrigated from the ditch. The capacity of the ditch is large. The land under the ditch normally receives water both from Diversion 74 and from the drainage canal fed by Diversions 69 and 73.

Diversion 75 is that of the Northrop Ditch from the east side of Williams Creek in the SE¼ NW¼ of Section 26, T. 27 N., R. 9 E., M.D.B. and M.

The diversion system has been described under Application 10672 in the chapter on Applications Before the Department of Public Works.

Diversion 76 is that of the Pecks Valley Ditches from both sides of Pecks Valley Creek in the NW¼ SW¼ and NE¼ SW¼ of Section 25, T. 27 N., R. 9 E., M.D.B. and M.

Loose gravel dams are used to divert water into the conduits which consist of short earth ditches leading directly onto the irrigated land.

An area of 30.3 acres of meadow pasture on the Neal O. Stark ranch is irrigated from the diversion. The ditches have ample capacity.

No record of use was collected in 1945.

Diversion 77 is that of the Taddei Diversion from Williams Creek in the SE¼ SW¼ of Section 35, T. 27 N., R. 9 E., M.D.B. and M.

No dam or means of diverting the water is in present use.

An area of 18.7 acres of grain and truck on the Estate of I. Taddei is subject to irrigation from the diversion.

Diversion 78 is that of the Williams Creek Ditches from both sides of Williams Creek in the NW¼ NE¼ and NE¼ NE¼ of Section 2, T. 26 N., R. 9 E., M.D.B. and M.

At the first above described diversion point, a dam about six feet wide and four feet high is used to divert water into the conduits on both sides of the creek. These conduits are earth ditches leading directly onto the irrigated land. At the other location a temporary picket type dam is used to divert water into another short earth ditch on the south side of the creek. The ditches are used to supply supplemental water to a portion of the area on the E. T. and Edna M. Kuntzler ranch, heretofore described as irrigated from Diversion 62. The ditches have a combined capacity of about 4.0 cubic feet per second.

The discharge of Williams Creek as tabulated in Table 10 was almost entirely used by Diversion 78 subsequent to June 1 for domestic and irrigation purposes.

Diversion 79 is that of the Gott Williams Creek Ditches from both sides of Williams Creek in the NW¼ NW¼ of Section 1, T. 26 N., R. 9 E., M.D.B. and M.

A picket type dam is used to divert water into the conduits which consist of two earth ditches. The ditch to the south is a lateral from Diversion 67 in which the water will run either way for a limited distance from Williams Creek. Water from Diversion 79 is used in this

lateral early in the season and from Diversion 67 after Williams Creek fails. The ditch to the north is a high line ditch about one-fourth mile in length. The drainage from the high line ditch and overflow from Williams Creek below Diversion 79 collects in a ditch through the Stark meadow and is conveyed into a high line ditch on the Tony and Vivian Miller property to irrigate the land north of the Williams Creek channel. Originally this ditch was flumed past the Miller house to irrigate high ground to the east on both the Miller and the Wesley T. Wheeler, et al. ranches.

The diversion system is owned by the Neal O. Stark ranch. The acreage irrigated or capable of being irrigated from the diversion has been listed under Diversion 67.

No record of use was collected in 1945.

Diversion 80 is that the Hosken Cooks Creek Ditch from the north side of Cooks Creek in the NW¼ NE¼ of Section 35, T. 27 N., R. 10 E., M.D.B. and M.

A rock and gravel dam is used to divert water into the conduit which consists of an earth ditch about three-tenths mile in length to the first lateral. The lateral after entering the irrigated area roughly follows the high ground along the creek while the main ditch follows around the base of the hill for about six-tenths mile to the upper ranch buildings.

In conjunction with Diversion 139 an area of 219.0 acres of meadow hay and pasture, alfalfa and grain on the W. M. Hosken ranch is irrigated from the ditch. The capacity of the ditch is ample to fill all requirements.

The ditch was only open a few days in 1945 and little use was made of the water as ditch losses consumed the limited flow diverted. Conveyance loss is at all times a major factor in the use of water through

this ditch.

Diversion 81 is that of the Smith Cooks Creek Ditch from the east side of Cooks Creek in the SE¼ NE¼ of Section 2, T. 26 N., R. 10 E., M.D.B. and M.

A concrete diversion dam about eighteen feet long and eight feet high is used to divert water into the conduit which consists of an earth ditch about two-tenths mile in length. Takeouts are established as needed along the ditch to irrigate the adjoining area.

An area of 38.2 acres of meadow hay and pasture, alfalfa and grain on the F. R. Smith ranch is irrigated from the ditch. The capacity of the ditch was measured as two cubic feet per second.

No records of discharge were collected in 1945.

After about June 20, 1945, the water available for diversion by this ditch was derived entirely from spring water rising in the creek channel within about one-fourth mile of the dam. On that date the flow was approximately 1.80 cubic feet per second, but gradually declined until by August 15 about 0.30 cubic foot per second was available.

Diversion 82 is that of the Burns Cooks Creek Ditches from the east side of Cooks Creek in the NE¼ SE¼ of Section 2, T. 26 N., R. 10 E., M.D.B. and M.

A wooden flashboard dam about sixteen feet long and four feet high is used to divert water into the conduits which consist of several small earth ditches leading directly onto the irrigated land.

An area of 27.7 acres of meadow pasture on the Wilbur Burns ranch is irrigated from the ditches. The capacities of the ditches are variable according to the elevation of the water level above the dam.

No records of discharge were collected in 1945.

Stock water is required in the creek at all times.

Diversion 83 is that of the Quigley Pasture Ditch from the west side of Cooks Creek in the SE¼ NE¼ of Section 11, T. 26 N., R. 10 E., M.D.B. and M.

A wooden flashboard dam about sixteen feet long and four feet high is used to divert water into an earth ditch about five hundred feet in length to a division between two laterals. The easterly lateral follows the high ground near the creek and the other follows around the base of the hill at the edge of the irrigated area.

An area of 20.9 acres of meadow hay and pasture on the W. S. and Icie A. Quigley middle ranch is irrigated from the ditch. Stock water is required in the ditch part of the time and in the creek at all times. The capacity of the ditch was estimated as two cubic feet per second.

No records of discharge were collected in 1945.

Diversion 84 is that of the Quigley Meadow Ditch from both sides of Cooks Creek in the NE¼ SE¼ of Section 11, T. 26 N., R. 10 E., M.D.B. and M.

A picket type dam sealed with manure is used to divert water into earth ditches. The west ditch is about two-tenths mile in length. Takeouts are made wherever necessary along the ditch. The east ditch is short, leading directly onto the irrigated land.

An area of 37.0 acres of meadow hay on the W. S. and Icie A. Quigley lower ranch is irrigated from the ditches. The capacity of the ditch was estimated as two cubic feet per second.

No records of discharge were collected in 1945.

Diversion 85 is that of the Cliff Cooks Creek Ditch from both sides of Cooks Creek in the NE¼ NE¼ of Section 14, T. 26 N., R. 10 E.,

M.D.B. and M.

A wooden flashboard dam about sixteen feet long and four feet high is used to divert water into the conduits which consist of short earth ditches on both sides of the creek.

An area of 58.2 acres of meadow hay and pasture and grain on the Walter E. Cliff ranch is irrigated from the ditches. The capacity of the ditches is ample to irrigate the area served.

Stockwater is required in the creek at all times.

No records of discharge were collected in 1945.

Diversion 86 is that of the Downey Upper Ditch from the west side of Lights Creek in Lot 7 of Section 8, T. 27 N., R. 11 E., M.D.B. and M.

A solid timber dam about thirty feet long and two feet high is used to divert water into the conduit which consists of a 12 inch by 14 inch box flume about two-tenths mile in length.

The water is used to operate a hydro-mechanical power plant in connection with the mining operations of A. J. Downey and D. W. Downey. The capacity of the flume was estimated as two cubic feet per second.

No record of discharge was collected in 1945.

Diversion 87 is that of the Downey Lower Ditch from the west side of Lights Creek in Lot 7 of Section 8, T. 27 N., R. 11 E., M.D.B. and M.

A solid timber dam about thirty feet long and three feet high is used to divert water into the conduit which consists of a 6 inch by 6 inch wooden box flume about two hundred feet in length. The water is used to irrigate a small garden near the A. J. Downey and D. W. Downey residences and is then returned to the creek. The capacity of the flume was estimated

as 0.1 cubic foot per second.

No record of discharge was collected in 1945.

Diversion 88 is that of the Freeman and Bates Ditch from the east side of Lights Creek in the NE¼ NW¼ of Section 31, T. 27 N., R. 11 E., M.D.B. and M.

A log and gravel dam about thirty feet long and one foot high is used to divert water into the conduit which consists of an earth ditch about one and six-tenths miles in length to the edge of the irrigated land in the SE¼ NW¼ of Section 6, T. 26 N., R. 11 E., M.D.B. and M. The side channel of Lights Creek, the discharge of which is given in Table 13, spills into the ditch about three-tenths mile below its head. At a point about one-half mile below the intake, excess water diverted by the ditch may be spilled into a side channel of Lights Creek and returned to the main stream.

The water is used for domestic and stockwatering purposes and the irrigation of 175.1 acres of meadow hay and pasture and grain on the following ranches:

Owner	Interest	Acreage Irrigated
James T. Freeman	1/2	87.7
E. R. Bates	1/2	87.4
	Total	175.1

The capacity of the ditch was measured as 4.0 cubic feet per second.

A 3-foot rectangular weir was installed in the ditch. A record of discharge obtained at this weir has been tabulated in Table 28.

Water for domestic and stock use is required in the ditch throughout the summer.

Diversion 89 is that of the Defanti and Smith Ditch from the west side of Lights Creek in the NE¼ SW¼ of Section 31, T. 27 N., R. 11 E., M.D.B. and M.

A picket type dam about twenty feet long and three feet high, sealed with gravel and manure is used to divert water into the conduit which consists of an earth ditch about six-tenths mile in length to where it enters the Defanti meadow. The ditch branches at this point with a lateral to the west along the edge of the meadow and one to the south parallel with the creek to convey water to the Smith ranch.

The water is used for domestic and stockwatering purposes and for the irrigation of 230.8 acres of meadow hay and pasture and alfalfa on the following ranches:

Owner	Interest	Acreage Irrigated
Ralph Defanti	3/4	150.0
F. R. Smith	1/4	80.8
	Total	230.8

The capacity of the ditch was measured as 5.5 cubic feet per second.

A 3-foot rectangular weir was installed in the ditch. The record of discharge for this ditch has been tabulated in Table 29.

Water for domestic and stock use is required in the ditch through the summer.

Diversion 90 is that of the Burns Ditch from the west side of Lights Creek in the NW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B. and M.

A timber flashboard dam about twenty feet long and eight feet high is used to divert water into the conduit which consists of an earth ditch about one-tenth mile in length to the irrigated land. This portion

of the ditch follows along the creek bank and has been reinforced in two plans by flume sections.

After entering the irrigated land the ditch follows the property line to the west for about four-tenths mile. It is tapped throughout this section for the irrigation of the adjoining land.

An area of 100.3 acres of grain, meadow hay and pasture on the Wilbur Burns ranch is irrigated from the ditch. The capacity of the ditch is about two cubic feet per second.

The amount of water diverted has been tabulated in Table 30. Due to the poor condition of the dam and the upper portion of the ditch only small heads of water were diverted in 1945.

Diversion 91 is that of the Quigley Upper Ditch from the west side of Lights Creek in the SW¼ SE¼ of Section 1, T. 26 N., R. 10 E., M.D.B. and M.

A concrete dam about twenty-four feet long and twelve feet high is used to divert water into the conduit which consists of an earth ditch about two-tenths mile in length to where it divides into two branches. One branch follows the property line to the west for about seven-tenths mile and the other roughly parallels the creek for about four-tenths mile. Water is spread from both branches throughout their lengths.

An area of 247.4 acres of grain, alfalfa, clover and meadow hay and pasture on the W. S. and Icie A. Quigley upper ranch is irrigated from the ditch. The capacity of the ditch was measured as 5.0 cubic feet per second.

The amount of water diverted has been tabulated in Table 31.

Diversion 92 is that of the Quigley Middle Ditch from the west side of Lights Creek in the NW¼ NE¼ of Section 12, T. 26 N., R. 10 E.,

M.D.B. and M.

A concrete dam about twenty-four feet long and seven feet high is used jointly by Diversions 92 and 93 to divert water into their respective conduits. The conduit from Diversion 92 is an earth ditch about three-tenths mile in length to the point where it divides into three laterals.

An area of 152.2 acres of grain, meadow hay and pasture on the W. S. and Icie A. Quigley middle ranch is irrigated from the ditch.

The capacity of the ditch was measured as 3.5 cubic feet per second.

The amount of water diverted by the ditch has been tabulated in Table 32.

A deep well has been drilled where the ditch divides and a 12-inch electrically driven deep well turbine has been installed to supply supplemental water to the area served by Diversion 92. The turbine was operated continuously from about August 1 to September 15, 1945, with a discharge of approximately 0.80 cubic foot per second. An area of approximately 100 acres was irrigated twice from the pumped water.

Diversion 93 is that of the Peter Upper Ditch from the east side of Lights Creek in the NW¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B. and M.

The dam described under Diversion 92 is used to divert water into an earth ditch about three-tenths mile in length to the lowermost user.

An area of 144.3 acres of clover, meadow hay and pasture is irrigated from the ditch on the following ranches:

Owner	Interest	Acreage Irrigated
James R. Peter	1/2	44.3
Arthur Peter	1/2	100.0
	Total	144.3

The capacity of the ditch was measured as 7.0 cubic feet per second.

Stock water is required in the ditch throughout the summer.

The amount of water diverted by the ditch has been tabulated in Table 33.

Diversion 94 is that of the Quigley and Cliff Ditch from the west side of Lights Creek in the SE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B. and M.

A concrete dam about twenty-four feet long and seven feet high is used jointly by Diversions 94 and 95 to divert water into their respective conduits. The conduit from Diversion 94 is an earth ditch which divides into two branches just below the headworks. The easterly branch follows the creek for about one-fourth mile to the Cliff ranch and the other branch follows the fence line to the west for about four-tenths mile. A lateral from the westerly branch, about two-tenths mile below its head, is also used to deliver water to the Cliff ranch.

A total area of 203.0 acres of grain, meadow hay and pasture is irrigated from the ditch system on the following ranches:

Owner	Interest	Acreage Irrigated
W. S. and Icie A. Quigley	1/2	69.0
Walter E. Cliff	1/2	134.0
	Total	203.0

The capacity of the ditch system was measured as 7.0 cubic feet

per second.

Stock water is required in the ditch or in the creek throughout the summer.

The amount of water diverted by the ditch has been tabulated in Table 34.

Diversion 95 is that of the Peter Lower Ditch from the east side of Lights Creek in the SE¼ SW¼ of Section 12, T. 26 N., R. 10 E., M.D.B. and M.

The dam described under Diversion 94 is used to divert water into an earth ditch, which divides into two branches just below the headworks. One branch parallels the creek along the old railroad right of way and the other follows a fence line in an easterly direction.

An area of 126.9 acres of meadow pasture on the Arthur Peter ranch is irrigated under the ditch system. The capacity of the ditch was estimated as 4.0 cubic feet per second.

Stock water is required throughout the summer.

The amount of water diverted by the ditch has been tabulated in Table 35.

Diversion 96 is that of the Peter Creek Upper Ditch from the north side of Peter Creek in the NW¼ NW¼ of Section 17, T. 26 N., R. 11 E., M.D.B. and M.

A gravel and sod dam is used to divert water into the conduit which consists of an earth ditch about one mile in length to the point where it empties into a concrete headbox on the hill above the Peter ranch buildings. A pipe line from the headbox supplies water for domestic, stockwatering and fire control purposes on the James R. Peter ranch. Also leading from the headbox is an earth ditch, which carries the spill

from the headbox through the farm corrals and on to the northerly portion of the irrigated area or into the ditch from Diversion 97. During periods of ample water supply the overflow is sometimes allowed to flow around the hill from the headbox where it is released onto the gravelly ground at the foot of the hill.

The use of water for irrigation purposes will be discussed under Diversion 97. Both diversions are owned by James R. Peter. The capacity of the ditch was measured as 1.0 cubic foot per second. Conveyance losses in the ditch have been discussed in the chapter on Losses and Accretions in Channels and Ditches.

The amount of water diverted by the ditch has been tabulated in Table 36.

Water for domestic, stockwatering and fire control purposes are required at all times.

Diversion 97 is that of the Peter Creek Barn Ditch from the north side of Peter Creek in the SW¼ SE¼ of Section 7, T. 26 N., R. 11 E., M.D.B. and M.

A loose rock and gravel dam is used to divert water into the conduit which consists of an earth ditch about three-tenths mile in length to the point where it spreads water on the irrigated land. The creek channel forks a short distance above the diversion so that during low flow a temporary dam must be placed in the head of the south branch to force the entire flow into the north channel.

The ditch is used in conjunction with Diversions 96, 98 and 99 to irrigate and subirrigate 202.0 acres of meadow hay and pasture on the James R. Peter ranch. Of the above area about 47.9 acres opposite the mouth of the canyon is subirrigated. Drain ditches in the subirrigated

area collect the water reaching the surface and conveys it to the meadow land below for further spreading.

No measurements of ditch capacity or of amount of water diverted were made in 1945.

Diversion 98 is that of the Peter Creek Upper Field Ditch from the north side of Peter Creek in the SE¼ SW¼ of Section 7, T. 26 N., R. 11 E., M.D.B. and M.

A temporary picket and manure dam is used to divert water into the conduit which consists of a short earth ditch leading directly onto the irrigated land.

The ditch is used in conjunction with Diversions 96, 97 and 99 to irrigate 202.0 acres of meadow hay and pasture on the James R. Peter ranch. The capacity of the ditch is ample to carry the water required.

No record of discharge was collected in 1945.

Diversion 99 is that of the Peter Creek Lower Field Ditches from the north side of Peter Creek in the NW¼ NW¼ of Section 18 and SE¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B. and M.

Board and gravel dams are used to divert water into the conduits which consist of short earth ditches leading directly onto the irrigated land.

The ditches are used in conjunction with Diversions 96, 97 and 98 to irrigate 202.0 acres of meadow hay and pasture on the James R. Peter ranch. The capacities of the ditches are small as only a limited area is irrigated therefrom.

No records of discharge were collected in 1945.

Diversion 100 is that of the A. Peter Ditch from the south side of Peter Creek in the SW¼ SE¼ of Section 12, T. 26 N., R. 10 E., M.D.B. and M.

A temporary dam is used to divert water into the conduit which consists of a short earth ditch along the edge of the irrigated land.

The ditch is used in conjunction with Diversion 141 to irrigate 14.3 acres of meadow pasture on the Arthur Peter ranch. The ditch was not used during the investigation.

Diversion 101 is that of the Gates Ditch from the North Fork of Foreman Ravine in the NE¼ NE¼ of Section 24, T. 26 N., R. 10 E., M.D.B. and M.

A loose rock and gravel dam is used to divert water into the conduit which consists of an earth ditch about one-fourth mile in length to the point where it enters the irrigated land.

The ditch is used in conjunction with Diversion 142 to irrigate 8.2 acres of orchard, meadow pasture and alfalfa on the St. Clair Gates property. The capacity of the ditch is ample to carry the water required.

No record of discharge was collected in 1945.

Diversion 102 is that of the Foreman Spring in the NE¼ SW¼ of Section 24, T. 26 N., R. 10 E., M.D.B. and M.

Collecting ditches have been constructed within the spring area and combine into an earth ditch about one-half mile in length to the first place of use in the NW¼ NW¼ of Section 24, T. 26 N., R. 10 E., M.D.B. and M.

The ditch is used to supply domestic and stock water and to irrigate 3.5 acres of garden and orchard on the following ranches:

Owner	Acreage Irrigated
J. C. Taresh	0.5
Dora Johnson	3.0
Total	3.5

The capacity of the ditch was estimated as 0.5 cubic foot per second.

The discharge of the spring was measured as 0.20 cubic foot per second on September 26, 1945.

Diversion 103 is that of the Road Dam Ditches from both sides of Foreman Ravine in the NE¼ NE¼ of Section 23, T. 26 N., R. 10 E., M.D.B. and M.

A wooden box dam about eight feet wide and four feet high is used to divert water into two short earth ditches located on either side of the creek. The south ditch follows along the county road for about seven hundred feet and is largely used for subirrigating the area below the road. The north ditch carries water along the high ground below the road for similar use.

An area of 15.0 acres of alfalfa, meadow pasture and grain on the Dora Johnson ranch is irrigated from the ditches.

The ditches were not used in 1945 as the dam was in poor shape. Table 15 is a tabulation of the water available for diversion at the dam.

Diversion 104 is that of the Taresh Mill Pump from the north side of Lights Creek in the SE¼ NW¼ of Section 22, T. 26 N., R. 10 E., M.D.B. and M.

A 6-inch centrifugal pump is used to lift water from the channel of Lights Creek either into a wooden tank or directly into an 8-inch diameter pipe line about five hundred feet in length which delivers water

to the mill pond of the C. H. Taresh and J. C. Taresh mill. Water is drawn from the tank as needed for fire control and boiler use.

The water in Lights Creek available for diversion during the summer months is entirely derived from drainage from Diversions 137 and 138 and from seepage which naturally finds its way into the creek. It is usual to construct a low gravel and earth dam in the creek channel below the pump to store the water when the pump is not operating.

Diversion is made only when needed to supply the mill use.

Diversion 105 is that of the Clover Valley Ranch Spring in the SE¼ SE¼ of Section 7, T. 24 N., R. 14 E., M.D.B. and M.

The spring water collects in a small pond from which it is diverted into small ditches to irrigate 24.5 acres of meadow pasture on the Westover Co. ranch in Red Clover Valley.

The spring has a constant flow of about 0.10 cubic foot per second during the summer months.

Diversion 106 is that of the Davis Spring in the SE¼ NE¼ of Section 11, T. 25 N., R. 11 E., M.D.B. and M.

An earth ditch about three-tenths mile in length intercepts the flow from the spring and conveys it to the vicinity of the farm buildings on the John and Charles Davis property. The water is used for domestic and stock-watering and for the irrigation of 3.4 acres of garden, orchard and truck.

The flow of the spring was estimated to be 0.15 cubic foot per second.

Diversion 107 is that of the Clark Spring pipe from an old mining tunnel in the NW¼ SE¼ of Section 34, T. 26 N., R. 10 E., M.D.B. and M.

A concrete regulating basin and settling tank about twenty feet long by fourteen feet wide by six feet deep has been constructed near the mouth of the tunnel. The water is conveyed from the tunnel to the tank through a short section of 3-inch pipe and thence through about twelve hundred feet of 2-inch pipe to the house and yard of G. R. Clark, where it is used for domestic purposes.

A volumetric measurement of the amount of water delivered to the tank in October 1945 indicated a flow of 3750 gallons per day or 0.006 cubic foot per second. The entire flow from the tunnel was being diverted at the time of measurement.

Diversion 108 is that of the Hotel Pipe from an old mining tunnel and from spring flow in Taylorsville Ravine, both in the NW¼ SE¼ of Section 34, T. 26 N., R. 10 E., M.D.B. and M.

A concrete regulating basin and settling tank similar to that described under Diversion 107 has been constructed about three hundred feet below the outlet of an old mining tunnel and a 4-inch wood stave pipe has been laid connecting the tank and tunnel to pick up and carry the water rising in the tunnel to the tank. A 2-inch iron pipe about three hundred feet in length conveys water from this tank to another smaller concrete tank about five feet in diameter and five feet deep.

Water from spring flow in the creek channel is also delivered into this smaller tank through another 2-inch pipe line which heads in a concrete collecting basin in the creek bottom.

A 2-inch pipe line about twenty-two hundred feet in length conveys water from the lower tank to the place of use at the old hotel building in the Town of Taylorsville now owned by Mrs. M. L. Donnenwirth. The water is used for domestic and irrigating purposes on 0.9 acre of

yard, garden and orchard.

Volumetric measurements of the amount of water collected from the two sources in October 1945 show a discharge from the tunnel of 6,400 gallons per day and from the spring of 12,360 gallons per day or a total of 0.029 cubic foot per second.

Diversion 109 is that of the Clark Pipe from Taylorsville Ravine in the NW¼ SE¼ of Section 34, T. 26 N., R. 10 E., M.D.B. and M.

A gravel and sod dam in the creek collects the seepage and spring water in the channel below the collecting basin used for Diversion 108. A 3-inch diameter pipe line about three hundred feet in length conveys the water from the dam to a concrete regulating tank, five and one-half feet wide by six and one-half feet long and five feet deep, from which the water is drawn through a 2-inch pipe line for use for domestic purposes in the Town of Taylorsville. The diversion and distribution system is owned by G. R. Clark.

A volumetric measurement of the amount of water entering the settling basin in October 1945 showed a discharge of 6170 gallons per day or 0.01 cubic foot per second.

Diversion 110 is that of the Viacava Upper Ditch from the east side of Viacava Ravine in the NW¼ NW¼ of Section 34, T. 26 N., R. 10 E., M.D.B. and M.

A rock and gravel dam is used to divert water into the conduit which consists of an earth ditch about six hundred feet in length. A short distance below the head, a 2-inch pipe taps the ditch and conveys water to the house for domestic purposes.

The diversion is used in conjunction with Diversions 111 and

112 to supply water for domestic and stock-watering purposes and to irrigate 34.6 acres of meadow hay and pasture, grain, alfalfa and yard on the A. E. Viacava property. The capacity of the ditch is about 0.5 cubic foot per second.

Regulating basins have been constructed in the creek above Diversion 110 to control the low flow of the stream so that larger irrigation heads may be utilized.

Diversion 111 and 112 are those of the Viacava Middle and Viacava Lower Ditches from Viacava Ravine in the NW¼ NW¼ of Section 34 and the SW¼ SW¼ of Section 27, both in T. 26 N., R. 10 E., M.D.B. and M.

A log and board dam is used at Diversion 111 to divert the water into a short earth ditch and a sod dam is used at Diversion 112 to divert water into two short ditches all of which lead directly onto the irrigated land.

Diversions 111 and 112 are used in conjunction with Diversion 110 on the A. E. Viacava ranch. The ditches all have capacities in excess of 0.5 cubic foot per second.

No records of use were collected in 1945.

Diversion 113 and 114 are those of the Hough Creek Upper and Hough Creek Lower Ditches from both sides of Hough Creek in the NW¼ SW¼ and SW¼ NW¼ of Section 29, T. 26 N., R. 10 E., M.D.B. and M.

The diversions were not used in 1945 but a large part of the area was subirrigated until midsummer from side hill and channel seepage. New ditches were constructed in 1945 to spread the freshet flow of the creek over the higher ground.

A total area of 364.1 acres of meadow hay and pasture is subject to irrigation from Hough Creek from seepage and from the two diversions,

as tabulated below:

Owner	Acreage: Subirrigated	Acreage: Surface Irrigated	Acreage: Totals
S. S. Openshaw, et al.	119.0	150.7	269.7
J. E. and Marian Cardoza	94.4	0.0	94.4
Totals	213.4	150.7	364.1

The capacity of the ditches are ample to divert the water required.

Diversion 115 is that of the Cardoza Spring in the SW¼ NW¼ of Section 30, T. 26 N., R. 10 E., M.D.B. and M.

An earth levee has been constructed around the spring to form a pond about fifty feet in diameter from which water is drawn through two outlets. The easterly outlet supplies an earth ditch about one-half mile in length along the east side of the area irrigated from the spring. The westerly outlet supplies a ditch about one-fourth mile in length along the south edge of the area.

The water is used for domestic and stock-watering purposes and for the irrigation of 99.1 acres of meadow hay and pasture and alfalfa on the J. E. and Marian Cardoza ranch.

The flow of the spring was measured on October 8, 1945, as 0.55 cubic foot per second.

Diversion 116 is that of the Manning Spring in the NW¼ SE¼ of Section 25, T. 26 N., R. 9 E., M.D.B. and M.

A short pipe line has been constructed from the spring to supply domestic water for a group of cabins on the S. A. Manning property.

The flow of the springs was estimated as 0.15 cubic foot per second.

Diversion 117 is that of the Avrit Pipe from a small tributary of Indian Creek in the NE¼ NE¼ of Section 35, T. 26 N., R. 9 E., M.D.B. and M.

The diversion works and conduit are described under Application 9046 in the chapter on Applications Before the Department of Public Works.

Diversion 118 is that of the Frizzie Ditch and pipe line from Dixie Creek, tributary to Indian Creek below Crescent Mills in the NW¼ SE¼ of Section 26, T. 26 N., R. 9 E., M.D.B. and M.

No data regarding the diversion works and distribution system was collected. The water is used for domestic and industrial purposes around and near the sawmill belonging to the Estate of C. Frizzie.

No record of the amount of water used was collected in 1945.

Diversion 119 is that of the Indian Falls Pipe line from a spring located on the south side of Indian Creek in the NE¼ SE¼ of Section 3, T. 25 N., R. 9 E., M.D.B. and M.

The diversion works and conduit are described under Application 6728 in the chapter on Applications Before the Department of Public Works.

Diversion 120 is that of the Jackson Spring located on the south side of Indian Creek in the NW¼ SE¼ of Section 3, T. 25 N., R. 9 E., M.D.B. and M.

The diversion works and conduit are described under Application 9968 in the chapter on Applications Before the Department of Public Works.

Diversion 121 is that of the Lawson Ditch from the north side of Indian Creek in the SW¼ SW¼ of Section 3, T. 25 N., R. 9 E., M.D.B. and M.

A loose rock and sandbag dam is used to divert water into an earth ditch about four-tenths mile in length. The ditch is used for

mining and irrigation purposes.

An area of 4.0 acres of meadow pasture, orchard and truck on the property of the Rio De Oro, Inc. is irrigated from the ditch in conjunction with Diversion 122. The capacity of the ditch is about 4.0 cubic feet per second.

No record of use was collected in 1945.

Diversion 122 is that of the Oak Flat Ditch from a small tributary stream on the north side of Indian Creek in the SE¼ SW¼ of Section 4, T. 25 N., R. 9 E., M.D.B. and M.

No data was collected regarding the diversion works and conduit. The water is used for domestic purposes and, in conjunction with Diversion 121, to irrigate 4.0 acres of meadow pasture, orchard and truck on the property of Rio De Oro, Inc.

Diversion 123 is that of the Crescent Ditch from an unnamed ravine in the SE¼ NW¼ of Section 24, T. 26 N., R. 9 E., M.D.B. and M.

The water drains from an old mining tunnel into the ravine and is diverted therefrom by an earth ditch. At a point about two-tenths mile below the intake the ditch divides into two branches.

One branch drops down the hill through a 4-inch pipe line and terminates in a fifty gallon barrel. A 1-inch pipe outlet from the barrel supplies water to a nearby property. The remainder of the water spills from the barrel into an earth ditch leading to two earth regulating basins about sixty feet long by thirty feet wide and five feet deep. From the regulating basins the water is conveyed through a pipe line to the Town of Crescent Mills, where it is used for municipal and domestic purposes. Any water in excess of domestic and municipal requirements spills from the basin and is used on orchard and meadow lands below.

The other branch of the ditch continues around the hill from the division point and is used for mining, domestic and irrigation purposes. The irrigated area consists of about 8.9 acres of meadow hay and pasture, orchard and garden.

The portion of the diversion and distribution system which supplies municipal water to the Town of Crescent Mills is owned by Arthur Sorsoli. The other branch of the ditch is owned by the Tyron Kelley heirs. The amount of water available at the division in 1945 was approximately 0.27 cubic foot per second.

Diversion 124 is that of the Tarosh Springs in the SE¼ NW¼ and NE¼ SW¼ of Section 18, T. 26 N., R. 10 E., M.D.B. and M.

A series of springs at the base of the hill partly irrigates and partly subirrigates an area of 11.6 acres of meadow pasture on the John Tarosh property. No apparent effort is made to spread the water to more fully utilize the limited flow. Drainage from the area amounts to about 0.15 cubic foot per second.

Diversion 125 is that of the Hamblin Spring in the SW¼ SW¼ of Section 1, T. 26 N., R. 9 E., M.D.B. and M.

Water from a spring area above the State Highway is collected in a ditch and is used to operate a hydraulic ram owned by Maurice A. Bates, Marion A. Flood, et al. The ram supplies domestic water to four homes above the road. The water passing the ram flows under the highway onto the property of Fred Prasun where it is used for domestic purposes and for the irrigation of 6.0 acres of grain and truck. The water not consumed on the Prasun property flows into a lateral from Diversion 68 and is used to supplement the water from that source on the C. G. and Helen V. Frederickson property.

The flow of the spring was estimated as 0.15 cubic foot per second.

Diversion 126 is that of the Morel Spring in the SE¼ SE¼ of Section 3, T. 26 N., R. 9 E., M.D.B. and M.

A perforated corrugated pipe is used to collect the water from the spring which lies under the Western Pacific Railroad grade. A non-perforated section of the pipe conveys the water about one hundred feet into the meadow where it is discharged on lower ground.

The diversion is used in conjunction with Diversion 66 to irrigate a portion of the land on the H. A. Morel property.

The flow of the spring was estimated as 0.10 cubic foot per second.

Diversion 127 is that of the Short Spring in the NW¼ NE¼ of Section 10, T. 26 N., R. 9 E., M.D.B. and M.

A spring area occurs between the ditch from Diversion 66 and North Canyon and is tapped by a collecting ditch which conveys the water onto the Edna A. Short property. The water is used to supplement the water received through Diversion 66.

The discharge of the ditch varied from about 0.15 to 0.10 cubic foot per second during the 1945 irrigation season.

Diversion 128 is that of the Benson Spring in the NW¼ SE¼ of Section 3, T. 26 N., R. 9 E., M.D.B. and M.

A basin has been excavated around the spring area to collect the water and provide regulatory storage. The water is taken from the basin by a 2-inch centrifugal pump conveyed through pipes under pressure and spread from sprinklers. Supplemental water is received from overflow from the regulating basins at the head of the distribution system from Diversions 64 and 129. The overflow is caught in the abandoned lower

end of the conduit from Diversion 65 and conveyed a short distance around the hill to a pipe under the railroad which carries the water to a small regulating pond immediately above the Benson Spring.

An area of 8.8 acres of truck on the Ira Benson property is irrigated from the diversion.

Diversion 129 is that of the Buckeye Ravine in the SE¼ NW¼ of Section 10, T. 26 N., R. 9 E., M.D.B. and M.

A check dam in Buckeye Ravine below the spring area is used to divert the water from Buckeye Springs into the distribution system of the Bidwell Water Company, heretofore described under Diversion 64.

The flow of the spring was measured as 0.18 cubic foot per second on September 21, 1945.

Diversion 130 is that of Clark Ravine in the SE¼ SE¼ of Section 4, T. 26 N., R. 9 E., M.D.B. and M.

A solid earth dam diverts the entire flow of the spring from the channel of Clark Ravine into an earth ditch about four-tenths mile in length. A regulating basin is located at the end of the ditch and leading from this basin is the Landon Pipe Line. About nine hundred feet below its head the ditch is tapped by Forest Lodge which takes out 0.08 cubic foot per second for domestic and resort purposes. The regulating basin at the lower end of the ditch has a capacity of about 140,000 gallons and originally acted as a forebay for a 10-inch steel pipe line which conveyed the water to a hydro-electric plant at the foot of the hill. The hydro plant was abandoned several years ago and the pipe line now is used entirely for domestic and resort purposes.

The ownership of the water from the diversion is as follows:

Owner	Amount of Water c.f.s.
Gordon L. Byers (Forest Lodge)	0.08
Alma Landon	Remainder

The amount of water available for diversion was measured on September 30, 1945, as 0.40 cubic foot per second.

Diversion 131 is that of the Schieser Spring in the SW¼ SW¼ of Section 31, T. 27 N., R. 10 E., M.D.B. and M.

A basin has been excavated below the spring to serve as a regulating reservoir. It replaced a small headbox in the spring. The water is conveyed through a 2-inch iron pipe about five-tenths mile in length to a point where the pipe line forks into two branches and thence through separate pipes to the ranches indicated below. The water is used for domestic and stock-watering purposes

Owner	Interest
Tony and Vivian Miller	2/3
Wesley T. Wheeler, et al.	1/3

The maximum discharge of the pipe line was estimated as 0.05 cubic foot per second.

Diversion 132 is that of the Perry Springs in the NE¼ NW¼ of Section 5, T. 26 N., R. 10 E., M.D.B. and M.

The principal springs rise in an old wash beginning just below the county road and are diverted therefrom below the old slaughter house for use on the high ground to the west. Other spring or seepage areas occur for some distance along the ditch extending into the L. E. Wheelock property.

An area of 54.2 acres is irrigated and subirrigated from the springs and seepage in the area on the following ranches:

Owner	Acreage Irrigated
W. B. Perry, et al.	48.8
L. E. Wheelock	5.4
Total	54.2

The amount of rising water varies with the season but is adequate to provide stock water at all times.

A pipe line receiving water from Diversion 133 and 134 also contributes a small amount of water to the area.

Diversion 133 is that of the Hickerson West Springs in the NW¼ SE¼ of Section 32, T. 27 N., R. 10 E., M.D.B. and M.

A gravel and brush dam is used to divert water into an earth conduit. The ditch is about six hundred feet in length to where it is used on the upper end of a steep gravelly clearing. The channel below the dam is used as a distributing conduit to supply two more takeouts on the same side as the upper ditch and one takeout on the opposite side.

The entire flow of the spring channel is spread from the diversion works upon the land of Josie Roy for the irrigation of 13.2 acres of meadow pasture and truck and for domestic purposes. A head box, further described under Diversion 134, has been constructed in the channel about one thousand feet below Diversion 133 to supply water to a pipe line to the W. B. Perry, et al., property.

The discharge of the springs in October 1945 was about 0.40 cubic foot per second.

Diversion 134 is that of the Hickerson East Springs in the SE¼ SE¼ and SW¼ SE¼ of Section 32, T. 27 N., R. 10 E., M.D.B. and M., and represents the diversions from four springs and spring channels. The

easterly diversion works consists of two ditches from a spring channel located as first described above. Both ditches carry water about one-fourth mile to the meadow area below the county road, and are tapped for domestic water above the road. The discharge of the spring channel into the two ditches was about 0.40 cubic foot per second in 1945.

Next in order from the east is a covered rubble concrete tank, about sixteen feet by eight feet by six feet deep, which collects the water from a spring and acts as a headworks to a pipe line supplying domestic water to the lower Hannon home. The discharge was not measured but apparently is only enough to supply the house and yard.

The third diversion works is on a spring channel. Here an earth ditch has been constructed and follows around the irrigated land in a westerly direction. A short distance below the head of the ditch a take-out supplies water to a small garden and orchard on the Hannon property. At the lower end of the ditch water is supplied to the head box referred to under Diversion 133. The box is six feet long by two feet wide by two feet deep. A 2-inch pipe leads from the bottom of the box to the Perry property below the county road, a distance of about nine hundred feet. Domestic water is required through the pipe line at all times. The capacity of the pipe line was estimated as 0.05 cubic foot per second. The discharge of the spring channel at the head of the ditch was about 0.30 cubic foot per second in 1945.

The fourth diversion works consist of a collecting basin surrounding a spring on the hill above the lower Hannon residence. From this basin a 2-inch pipe line about one thousand feet in length conveys water to the ranch buildings for fire protection purposes. No measurement of discharge was made on the spring.

The water from the four diversion systems is used for irrigation, domestic and stock-watering purposes on the T. L. Hannon and H. S. Hannon property and to supply domestic water to the W. B. Perry, et al., property.

Diversion 135 is that of the Chico Springs in the NW¼ NW¼ and SW¼ NW¼ of Section 4, T. 26 N., R. 10 E., M.D.B. and M., and represents two groups of springs.

There is no developed system for utilization of the water. It spreads at will to irrigate and subirrigate the area below the springs.

An area of 11.5 acres of meadow pasture is irrigated on the Chico Jim property.

No measurement of discharge was made as the water spreads without control.

Diversion 136 is that of the Loggett Springs in the SW¼ NE¼ of Section 9, T. 26 N., R. 10 E., M.D.B. and M.

The water from the group of springs naturally irrigates and subirrigates a portion of 12.9 acres of meadow pasture and swamp grass on the C. H. Loggett property. Stockwater is also supplied to the irrigated area.

No measurement of discharge was made as the water spreads naturally from the springs.

The area is subject to inundation during the early summer in the Wolf Creek swamp.

Diversion 137 is that of the Snyder Spring in the NW¼ SE¼ of Section 23, T. 26 N., R. 10 E., M.D.B. and M.

A concrete tank approximately eight feet by six feet by four feet deep has been constructed around the spring to raise the water level

so that it may be diverted through any of several outlets from the tank. At one time the tank was tapped by pipe lines to convey the water away for various purposes and to operate a hydraulic ram but at present the water is either forced westward along an old railroad grade to subirrigate a small area or is allowed to pass through the embankment into a swamp area of about 15.7 acres on the W. A. Snyder and Sons Co. ranch. A 4-inch tile drain about one-half mile in length has been laid from the swamp to Lights Creek in an effort to drain the area, but it is only partially successful as about one-half the area is still overgrown with tules.

The discharge of the spring was measured as 0.45 cubic foot per second.

Diversion 138 is that of the Cliff Springs in the SE¼ NE¼ and N½ SE¼ of Section 14, T. 26 N., R. 10 E., M.D.B. and M.

A number of springs and seepage areas occur within the above described area along the lower course of Cooks Creek. The flow from the springs is small but because of poor drainage, swamp areas have formed. Drainage ditches constructed to improve conditions have been only partially successful.

An area of 42.8 acres on the Walter E. Cliff ranch is irrigated and subirrigated from the springs and seepage.

No measurements were made of the flow of any of the springs except to observe the drainage from the area of about 0.10 cubic foot per second.

Diversion 139 is that of the Hoskon Springs in the SE¼ SW¼ of Section 36, T. 27 N., R. 10 E., M.D.B. and M.

Seepage occurs over a wide area in the vicinity of the springs during the spring months but as the season progresses the seepage area

becomes more limited and by fall is confined to the springs located as described above. A number of drainage ditches have been constructed through the area to collect the seepage and convey it to other lands below.

The entire area affected by Diversion 139 is on the W. M. Hosken ranch and has been included under Diversion 80.

During the spring months considerable water drains from the area but by early summer the drainage has stopped and the only water available is from scattered springs. The discharge of the springs is small.

Diversion 140 is that of the Bates Spring in the SE¼ NE¼ of Section 12, T. 26 N., R. 10 E., M.D.B. and M.

The water from the spring naturally irrigates and subirrigates a small area above the county road and drains from these onto the meadow below.

An area of 0.4 acre of meadow pasture on the E. R. Bates ranch is irrigated from the spring. The spring also supplies stock water to some of the corrals on the property. The flow of the spring was estimated as 0.04 cubic foot per second.

Diversion 141 is that of the A. Peter Springs in the NW¼ NE¼ and SW¼ NE¼ of Section 13, T. 26 N., R. 10 E., M.D.B. and M.

A group of several small springs occur in the above described area. The most important of these is the A. Peter Domestic Spring which supplies water for domestic and stock-watering purposes at the ranch buildings and corrals. The discharge of the spring was measured as 7500 gallons per day or 0.012 cubic foot per second. A small regulating pool below the spring permits the use of large or smaller heads of water as needed.

The other springs occur in the meadow north of the ranch buildings and are used for stock-watering and irrigation purposes. The discharge is about the same as the domestic spring.

The springs are owned by Arthur Peter and, in addition to the uses described above, supply supplemental water to Diversion 100.

Diversion 142 is that of the Gates Springs in the NE¼ NE¼ of Section 24, T. 26 N., R. 10 E., M.D.B. and M.

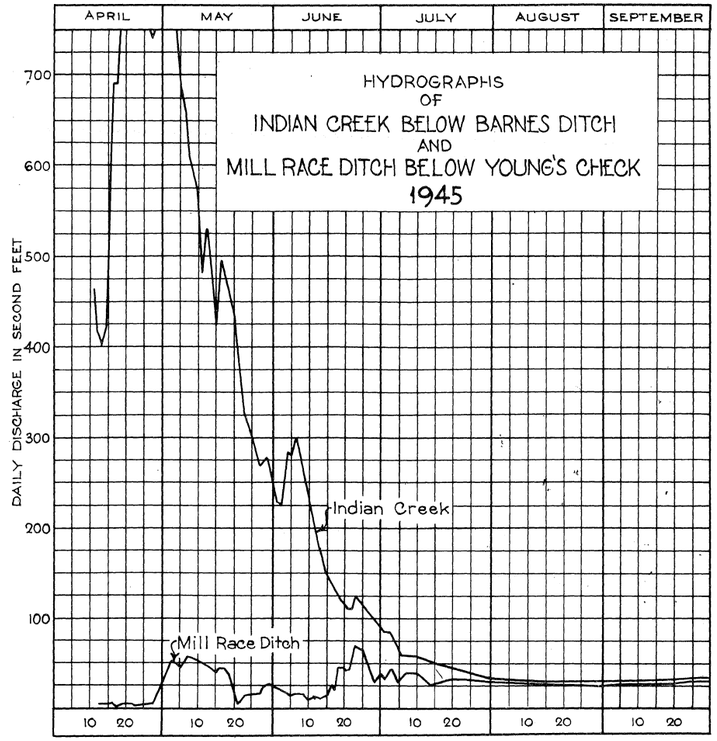
A group of springs occur at the mouth of the North Fork of Foreman Ravine which have been developed to irrigate a small area of orchard and meadow pasture and to supply domestic water to the Gates ranch house.

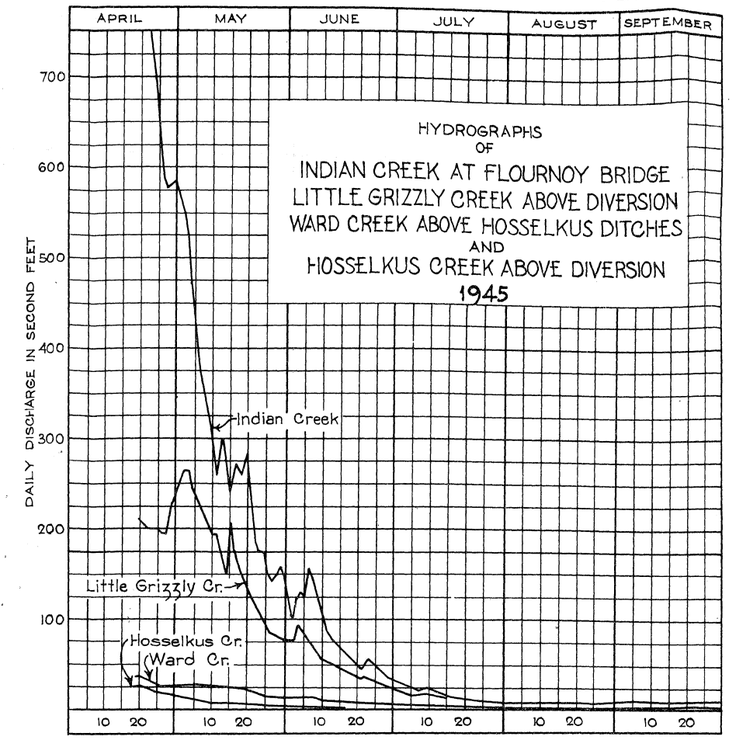
The springs are used in conjunction with Diversion 101 to irrigate a total of 8.2 acres on the St. Clair Gates property.

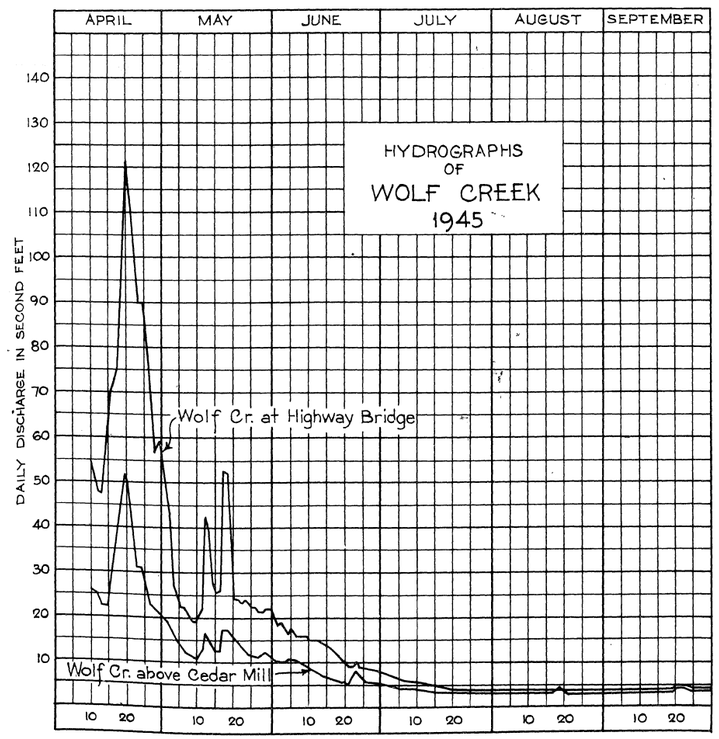
The discharge of the springs was estimated as 0.04 cubic foot per second.

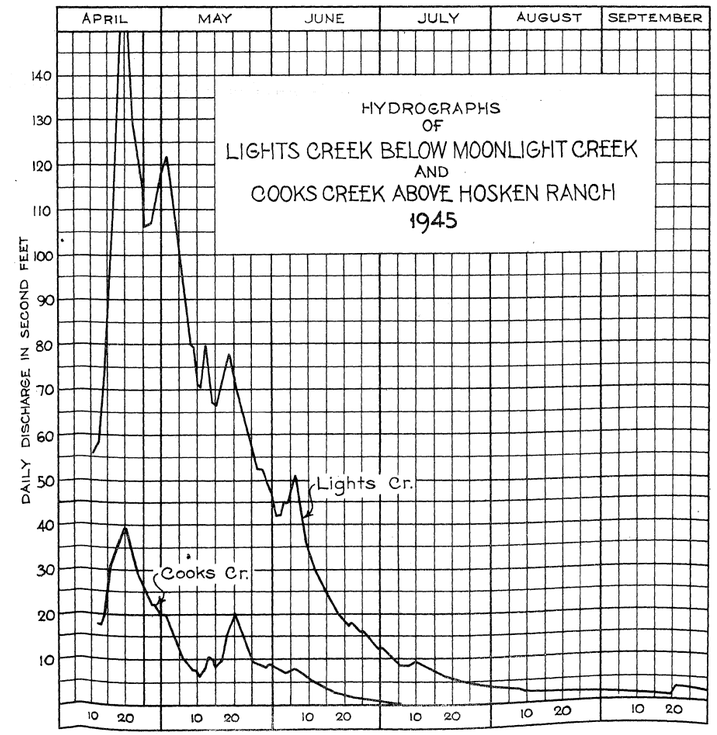
Diversion 143 is that of the School Spring located in the SE¼ SW¼ of Section 35, T. 26 N., R. 11 E., M.D.B. and M.

The diversion works and conduit is described under Application 4261 in the chapter on Applications Before the Department of Public Works.


HYDROGRAPHS
OF
INDIAN CREEK BELOW BARNES DITCH
AND
MILL RACE DITCH BELOW YOUNG'S CHECK
1945
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
DAILY DISCHARGE IN SECOND FEET
700
600
500
400
300
200
100
Indian Creek
Mill Race Ditch
10 20


HYDROGRAPHS
OF
INDIAN CREEK AT FLOURNOY BRIDGE
LITTLE GRIZZLY CREEK ABOVE DIVERSION
WARD CREEK ABOVE HOSSELKUS DITCHES
AND
HOSSELKUS CREEK ABOVE DIVERSION
1945
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
DAILY DISCHARGE IN SECOND FEET
700
600
500
400
300
200
100
Indian Creek
Little Grizzly Cr.
Hosselkus Cr.
Ward Cr.
10 20


HYDROGRAPHS
OF
WOLF CREEK
1945
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
DAILY DISCHARGE IN SECOND FEET
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Wolf Cr. at Highway Bridge
Wolf Cr. above Cedar Mill
10 20


HYDROGRAPHS
OF
LIGHTS CREEK BELOW MOONLIGHT CREEK
AND
COOKS CREEK ABOVE HOSKEN RANCH
1945
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
DAILY DISCHARGE IN SECOND FEET
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Lights Cr.
Cooks Cr.
10 20

MAPS

KEY OF NUMBERS AND NAMES OF DIVERSIONS

Listed in Order of Map Sheets 1 to 4

MAP SHEET NO. 1

60. Cedar Mill Upper Pump
61. Cedar Mill Lower Pump
62. Clark
63. Setzer
65. Kauffman
66. Short and Morel
67. Schieser
68. Forgay and Frederickson
69. McIntosh
70. Forgay
71. McIntosh Lower
72. Forgay Lower
73. Wheelock
74. Perry
75. Northrop
76. Pecks Valley
77. Taddei
78. Williams Creek
79. Gott Williams Creek
80. Hosken Cooks Creek
81. Smith Cooks Creek
82. Burns Cooks Creek
83. Quigley Pasture
84. Quigley Meadow
85. Cliff Cooks Creek
86. Downey Upper
87. Downey Lower
88. Freeman and Bates
89. Defanti and Smith
90. Burns
91. Quigley Upper
92. Quigley Middle
93. Peter Upper
94. Quigley and Cliff
95. Peter Lower
96. Peter Creek Upper
97. Peter Creek Barn
98. Peter Creek Upper Field
99. Peter Creek Lower Field
100. A. Peter
101. Gates
102. Foreman Spring
103. Road Dam
125. Hamblin Spring
126. Morel Spring
127. Short Spring
128. Benson Spring
129. Buckeye Ravine
130. Clark Ravine
131. Schieser Spring
132. Perry Springs
133. Hickerson West Springs
134. Hickerson East Springs
135. Chico Springs
136. Leggett Springs
138. Cliff Springs
139. Hosken Springs
140. Bates Spring
141. A. Peter Springs
142. Gates Springs

MAP SHEET NO. 2

50. Beacom
51. Barnes East
52. Barnes West
53. Taylorsville
54. Mill Race
55. Snyder
56. Snyder Pump
57. Toscani Pump
58. Peck and Hayes
59. Creek Pump
64. Round Valley Reservoir
104. Taresh Mill
107. Clark Spring
108. Hotel Pipe

MAP SHEET NO. 2 (CONT'D.)

109.	Clark Pipe	110.	Viacava Upper
111.	Viacava Middle	112.	Viacava Lower
113.	Hough Creek Upper	114.	Hough Creek Lower
115.	Cardoza Spring	116.	Manning Spring
117.	Avrit Pipe	118.	Frizzie
119.	Indian Falls	120.	Jackson Springs
121.	Lawson	122.	Oak Flat
123.	Crescent	124.	Taresh Springs
137.	Snyder Spring		

MAP SHEET NO. 3

1.	Taylor Lake	2.	Boulder Creek
3.	Antelope North	4.	Antelope East
5.	Flux Antelope	6.	Quigley Upper Antelope
7.	Quigley Antelope Springs	8.	Humphrey West
9.	Humphrey East	30.	Pratt Upper
31.	Pratt Lower	32.	Pratt House
33.	Curnow Upper	34.	Curnow Pasture
35.	Curnow	36.	Robinson
37.	Evans	38.	Goodhue
39.	Sobrero East	40.	Sobrero West
41.	Ward Upper West	42.	Ward Middle West
43.	Ward East	44.	Ward Pipe line
45.	Hosselkus	46.	Walker Flume
47.	Walker Pipe	48.	Grizzly Upper
49.	Grizzly Lower	106.	Davis Spring
143.	School Spring		

MAP SHEET NO. 4

10.	Rowland Dixie Creek	11.	Dixie Upper West
12.	Dixie Upper East	13.	Dixie Upper Meadow Dam
14.	Dixie Middle Meadow Dam	15.	Dixie Lower Meadow Dam
16.	Guidici Dixie	17.	Upper Dotta Neck
18.	North Spring	19.	Clover Upper
20.	Clover Middle	21.	Clover North Meadow
22.	Clover South Meadow	23.	Clover Lower
24.	Spring Channel Upper	25.	Spring Channel Lower
26.	Crocker Creek	27.	Crocker Old Channel
28.	Clover Overflow	29.	Guidici Clover
105.	Clover Valley Ranch Spring		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
EDWARD HYATT, STATE ENGINEER

INDIAN CREEK STREAM SYSTEM

SHOWING

DIVERSIONS AND IRRIGATED LANDS

PLUMAS COUNTY, CALIFORNIA

Prepared under direction of
HARRISON SMITHERUM
Senior Hydraulic Engineer

Approved by
GORDON ZANDER
Supervising Hydraulic Engineer

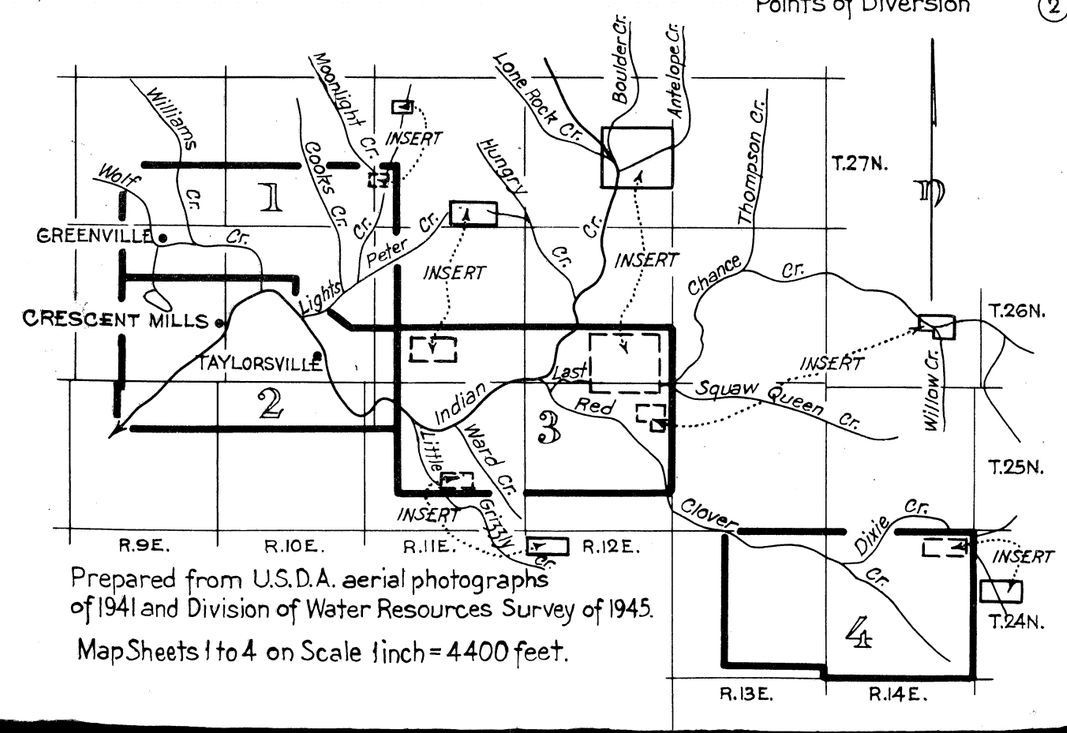
1945

CROP LEGEND

a - Alfalfa
g - Grain
c - Clover
t - Garden & Orchard
mp - Meadow Pasture
mh - Meadow Hay
s - Overflow Pasture
nc - No Crop (1945 Season)
ni - Not Irrigated

LEGEND

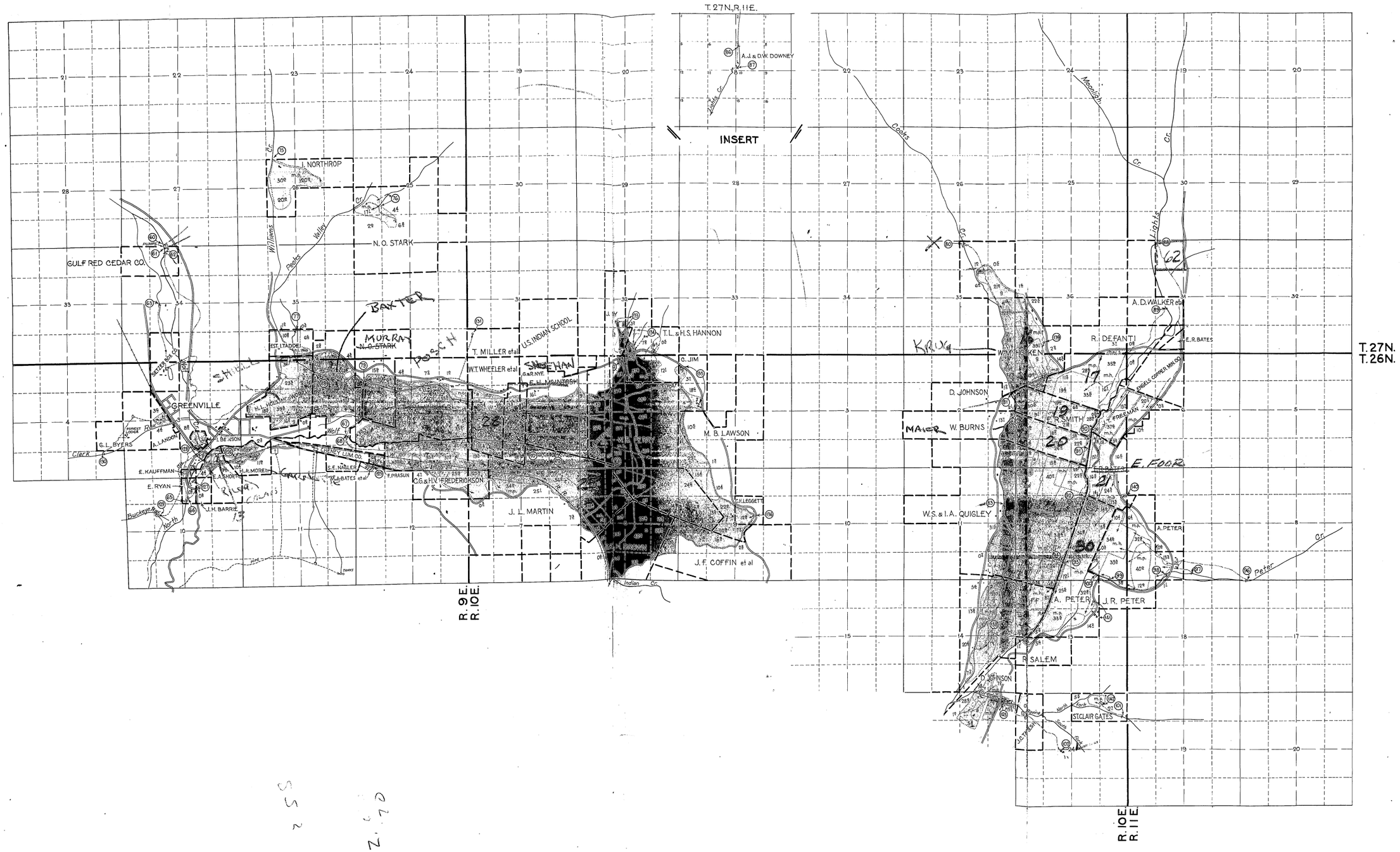
Township Lines
Section Lines
Property Lines
Roads
Rivers and Creeks
Ditches
Dams
Buildings
Irrigated Land (Green)
Points of Diversion (2)



Prepared from U.S.D.A. aerial photographs of 1941 and Division of Water Resources Survey of 1945.

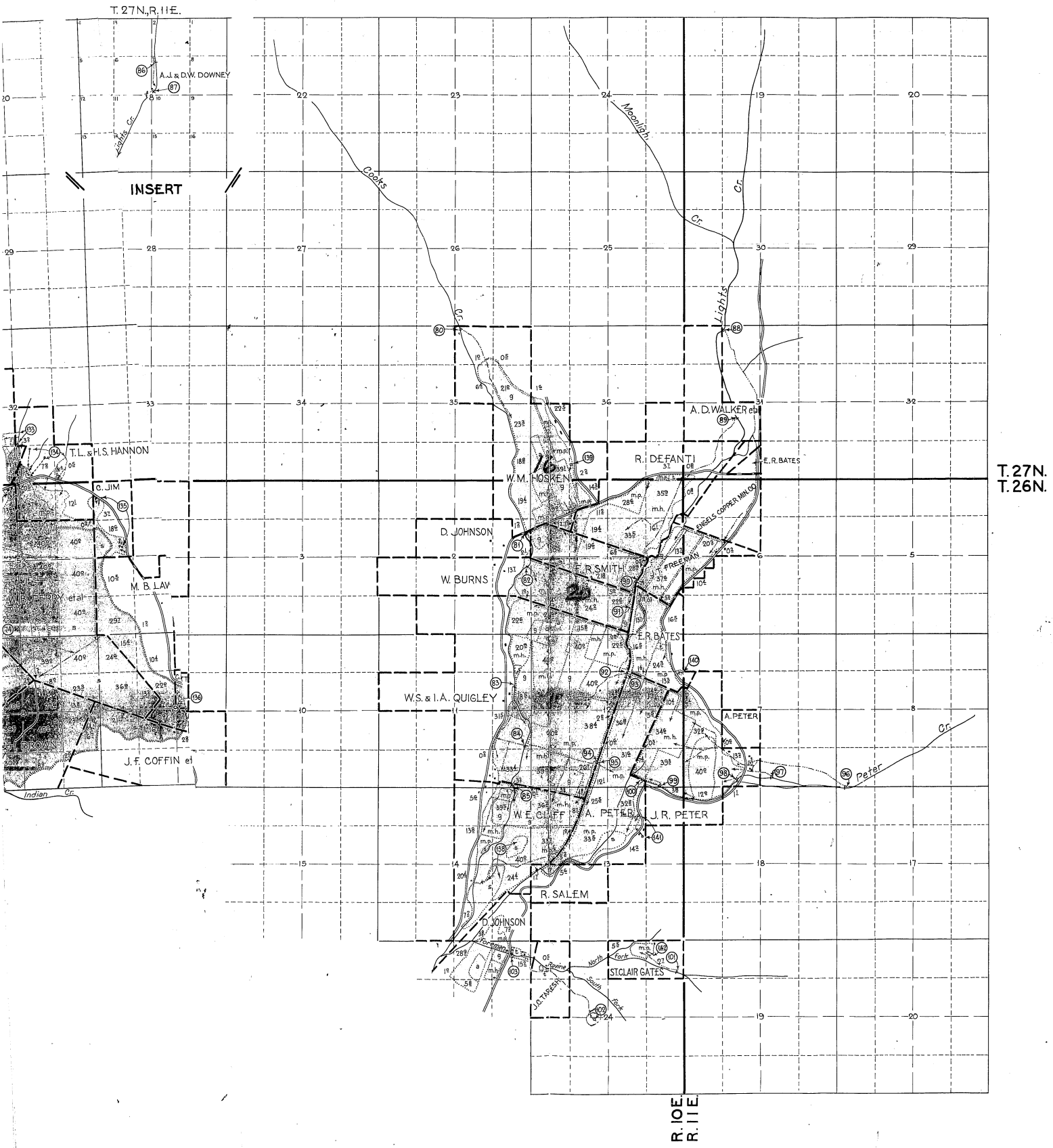
Map Sheets 1 to 4 on Scale 1 inch = 4400 feet.

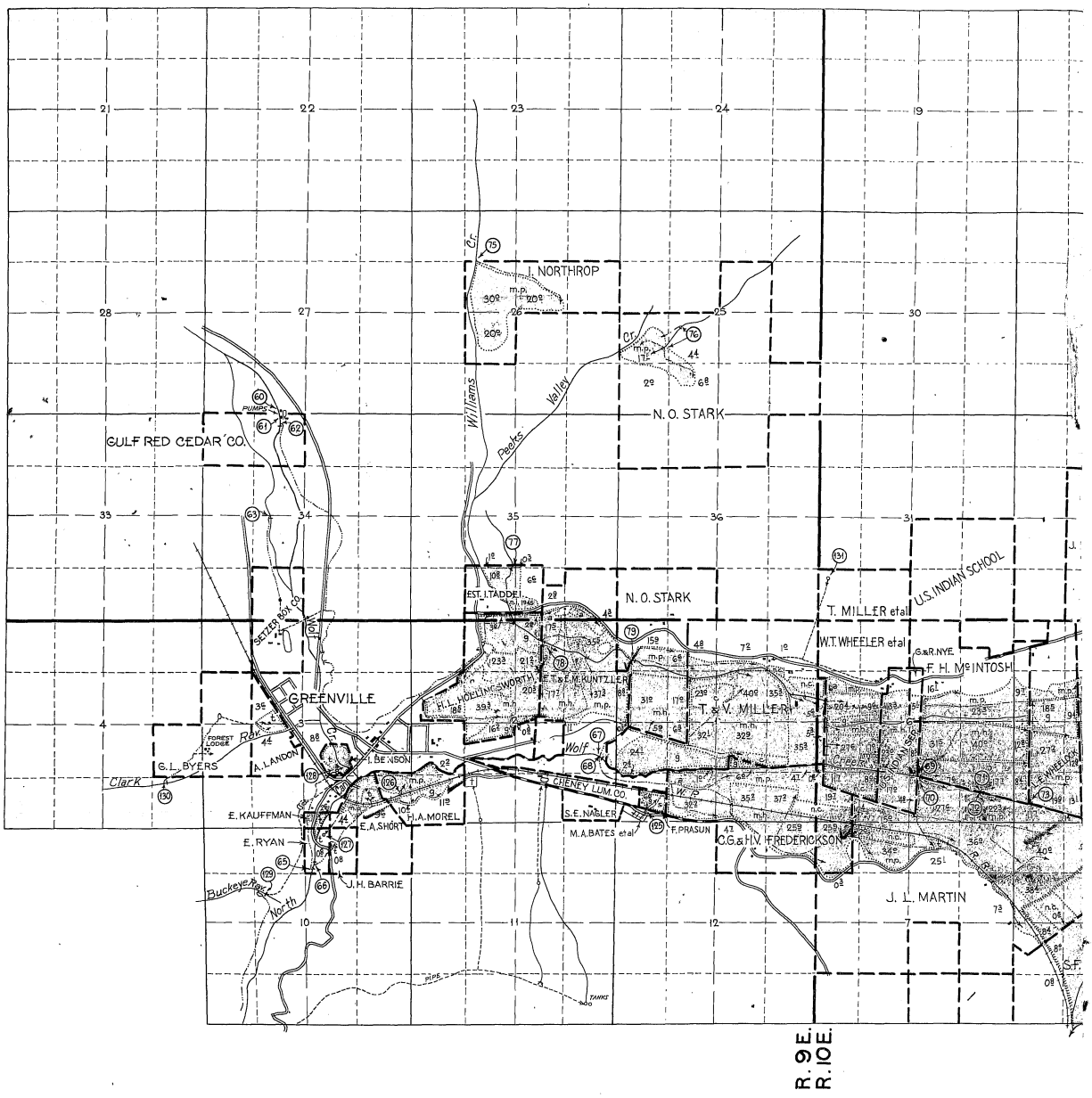
MAP SHEET 1
INDIAN CREEK



J. NORTHROP
N. O. STARK
GULF RED CEDAR CO.
N. O. STARK
T. MILLER etal
U.S. INDIAN SCHOOL
W.T. WHEELER etal
G.&R. NYE
F. H. McINTOSH
GREENVILLE
T. & V. MILLER
G.L. BYERS
A. LANDON
I. BENSON
E. KAUFFMAN
E. RYAN
E.A. SHORT
A.A. MOREL
J.H. BARRIE
S.E. NIXLER
M.A. BATES etal
T. PRASUN
C.G.&H.V. FREDERICKSON
J. L. MARTIN
Williams
Peoples
Valley
Wolf
Creek
Clark
Buckeye
North
Fork
Rock
R. 9 E.
R. 10 E.

MAP SHEET 1
INDIAN CREEK

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Buckeye
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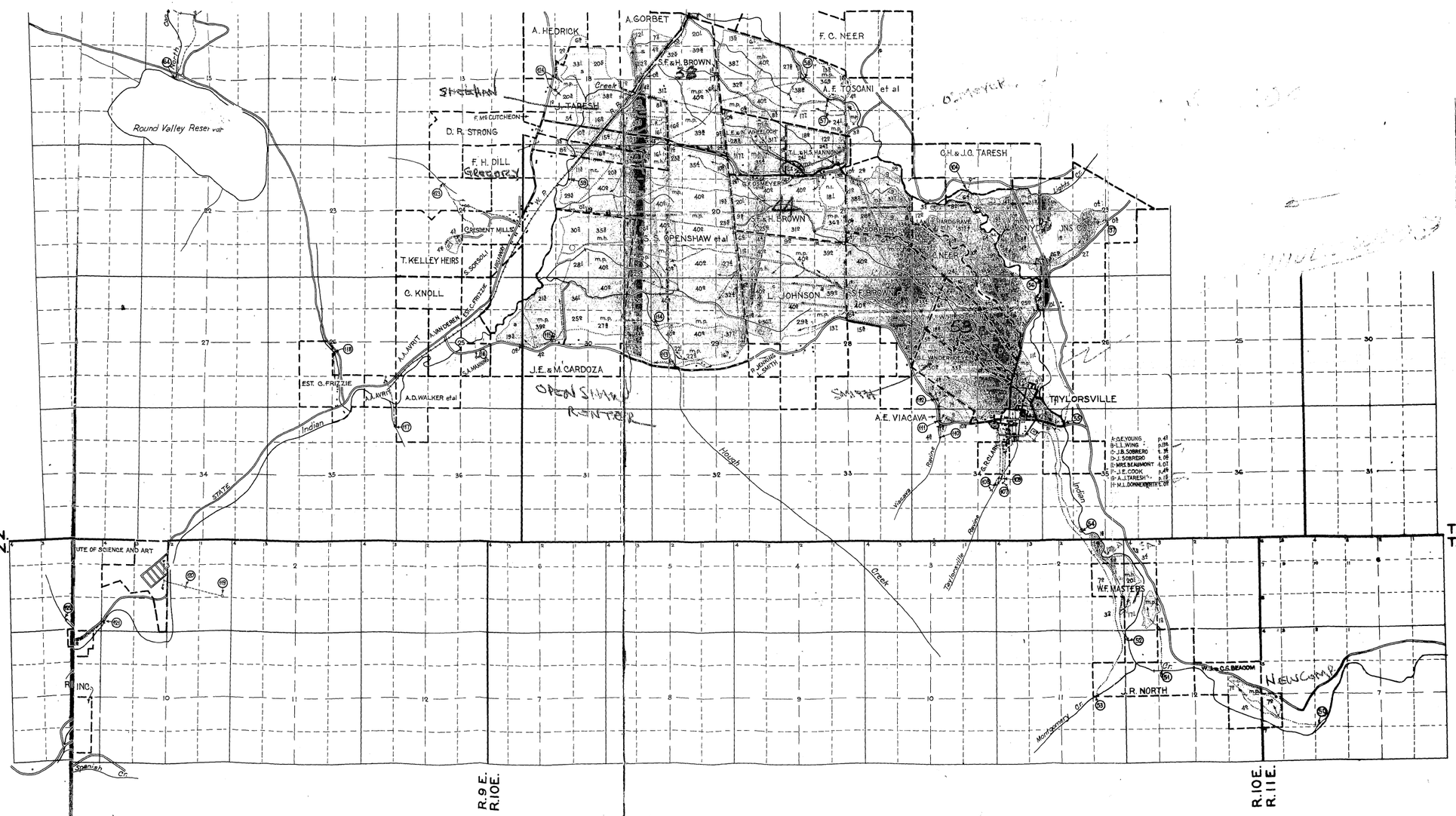
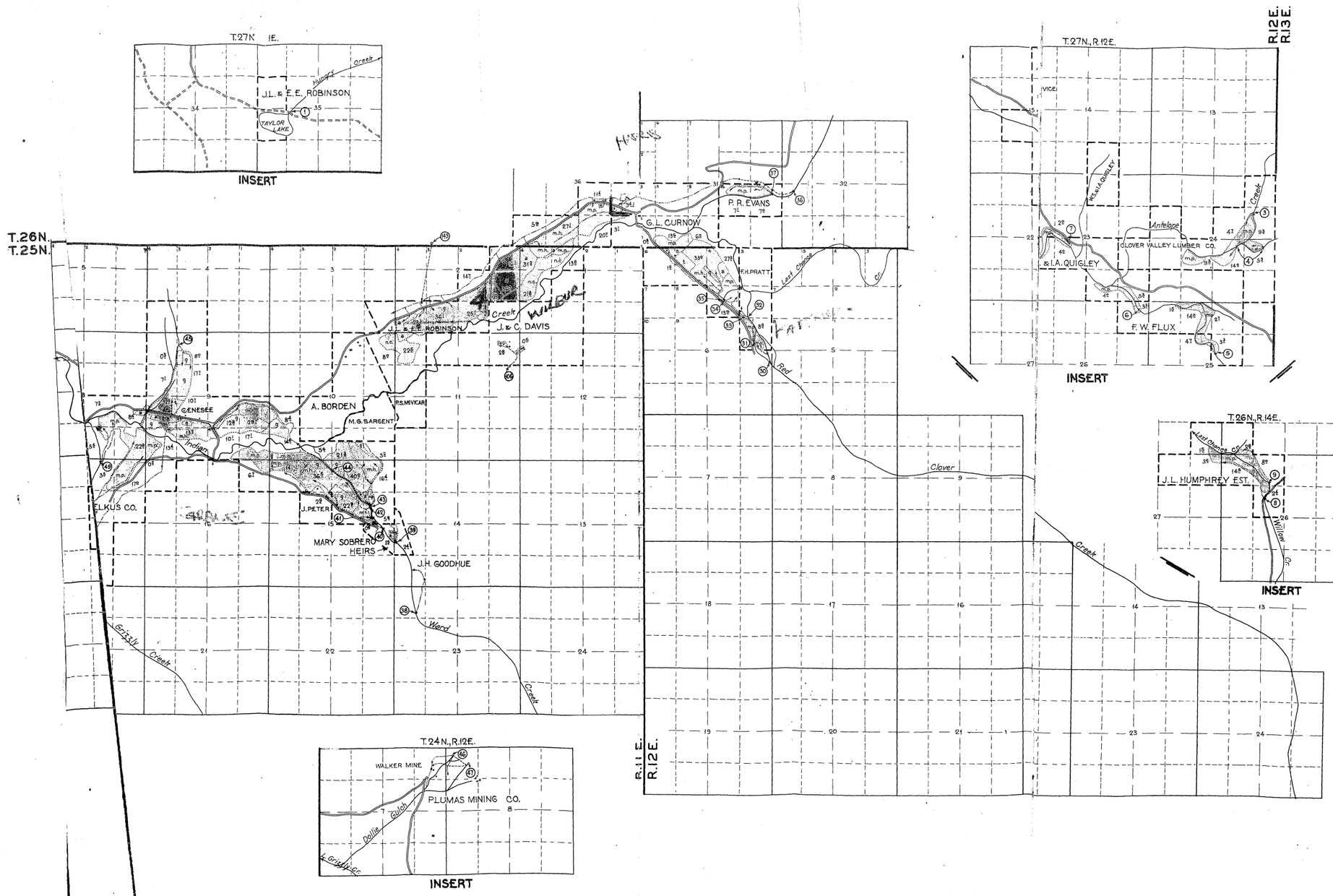
Rd.
PUMPS
TANKS
PIPE
R. 9 E.
R. 10 E.

MAP SHEET 2
INDIAN CREEK



MAP SHEET 3
INDIAN CREEK