STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

FRANK F. MERRIAM, Governor
EARL LEE KELLY, Director of Public Works

MIDDLE FORK OF FEATHER RIVER ADJUDICATION

DIVISION OF WATER RESOURCES

REPORT ON

WATER SUPPLY AND USE OF WATER

ON

MIDDLE FORK OF FEATHER RIVER AND TRIBUTARIES

PLUMAS AND SIERRA COUNTIES, CALIFORNIA

AUGUST, 1937

SACRAMENTO, 1938

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August 10, 1937

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Sacramento, California
August 10, 1937

Mr. Harold Conkling,
Deputy State Engineer,
Sacramento, California.

Dear Sir:

The accompanying report on the "Water Supply and Use of Water on Middle Fork of Feather River and its Tributaries, Above Beckwith", in Plumas and Sierra counties, is submitted herewith for your approval.

This report has been prepared pursuant to the order entered by the Division of Water Resources on March 6, 1936, granting the petition of F. E. Humphrey, Jr., for a determination of the relative rights of the various claimants to the waters of Middle Fork of Feather River and its tributaries, situate above Beckwith in Plumas County, and being within Plumas and Sierra counties. The purpose of this 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 a field investigation made under the supervision of the undersigned.

The field investigation covered the period extending from April 15 to October 31, 1936. 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 a survey of the diversion systems and irrigated areas.

In addition to the information gathered from the above mentioned investigation, certain data relative to the water supply of Last Chance Creek, collected in 1916 and 1917 in connection with the proposed Long Valley Irrigation District, have been included herein.

A map consisting of seven sheets 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 in the stream system of the Middle Fork of Feather River above Beckwith on a scale of one inch to 4400 feet has been prepared and is submitted as a part of this report.

Respectfully submitted,

Gordon Zander
Supervising Hydraulic Engineer

ORGANIZATION

Earl Lee Kelly	Director of Public Works
Edward Hyatt	State Engineer
Harold Conkling	Deputy State Engineer in Charge of Water Rights

This report was prepared under the direction of

GORDON ZANDER

Supervising Hydraulic Engineer

By

T. Russel Simpson	Senior Hydraulic Engineer
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INTRODUCTION

A petition, dated March 1, 1936, requesting the determination of the rights of the various claimants to the water of the Middle Fork of Feather River and its tributaries in Plumas and Sierra Counties under the provisions of Sections 25 to 36g of the Water Commission Act, was filed in the office of the Division of Water Resources. This petition was signed by the owners of more than 10,000 acres of irrigated land in the Middle Fork of Feather River stream system.

There seemed to be no necessity of including that portion of the stream system lying below Beckwith in Plumas County under the contemplated adjudication. It was therefore suggested by the Division of Water Resources that an amended petition be submitted for consideration. An amended petition, dated March 5, 1936, limiting the area therein to that portion of the stream system lying above Beckwith, was submitted by F. E. Humphrey, Jr., on March 5, 1936. An order executed by the State Engineer on March 6, 1936, granted the petition and fixed April 15, 1936, as the time for commencement of the examination of the stream system.

The field examination was accordingly commenced by the Division of Water Resources on April 15, 1936. The examination was suspended on the following day for a five-day period due to the receipt of objections to the proceeding by a group of the interested water users. After a conference with the water users at Vinton on April 17th and a tour of inspection of the area involved in the proceedings by Mr. Harold Conkling, Deputy State Engineer in Charge of Water Rights, the field examination was resumed on April 20, 1936. The examination extended

through to the close of the irrigation season on October 31, 1936.

A request was made on June 3, 1929, by Attorney W. M. Kearney on behalf of the water users on Smithneck Creek that the Division give consideration to the adjudication of the water rights on that stream due to the impending threat of expensive water right litigation. A preliminary examination was made of the Smithneck area and the court reference procedure under Section 24 of the Water Commission Act was recommended in seeking an adjudication of the rights. No further action was taken by the water users at that time.

At the request of Marvin B. Humphrey, a representative met with the water users of Last Chance Creek at Vinton on June 2, 1933, at a conference called to discuss the water right problems in that area. A further conference was held of all the water users on Middle Fork of Feather River and its tributaries at Sierraville on June 16, 1933. A committee was appointed at the meeting to circulate an agreement to effect an adjudication of all the water rights in Sierra Valley under the court reference procedure. Approximately two-thirds of the water users representing about three-fourths of the irrigated land in Sierra Valley signed the agreement. No action however was taken on the agreement pending the result of a proposed amendment to the statutory adjudication procedure provided in Sections 25 to 36g of the Water Commission Act.

GENERAL DESCRIPTION OF WATERSHED

The Middle Fork of Feather River has its source in the plateau area on the east slope of the main divide of the Sierra Nevada Mountains in the east portion of Sierra and Plumas counties at an elevation of about 8100 feet. Its channel follows a general northerly direction for approximately twenty miles through Sierra Valley and then turns and flows in a westerly direction through the backbone of the Sierra Nevada mountain range. As the entire watershed of the Middle Fork of Feather River above Beckwith is under consideration in this report a brief summary is given below of the various tributaries.

The Middle Fork of Feather River has two main tributaries, namely, Last Chance Creek which comes into Sierra Valley from the north and Smithneck Creek which comes into the valley from the southeast. There are seven other tributary streams in the south and southwestern portion of the valley whose watersheds and stream systems are generally considered as the headwaters of the main river. The names of these streams from east to south are Lemon Creek, Cold Creek, Webber (or Parker) Creek, Hamlin Creek, Miller Creek, Turner Creek and Fletcher Creek. In addition to the above streams there are a number of minor streams whose basins are less closely related to the main stream system, among which are Staverville Creek, Antelope Creek and Craycroft Creek.

Last Chance Creek heads on the east and south slope of Dixie Mountain at a maximum elevation of 8400 feet. Smithneck Creek heads on the west slope of Babbitt Peak and on the north slope of Sardine

Peak at elevations of about 8700 feet and 8200 feet, respectively. The group of creeks forming the headwaters of the main river head on the ridge encircling the southwestern portion of Sierra Valley at elevations varying from 7300 feet to 8100 feet. The elevation of the valley floor at Sierraville is about 4950 feet and at the outlet of the valley near Beckwith is about 4850 feet.

Last Chance Creek has one large and several smaller tributaries from the west and three small tributaries from the east in the mountain area north of the valley floor. The large tributary from the west is known as Frenchman Creek and among the small tributaries are Rowland Creek, Dixie Creek and Grigsby Creek. The small tributaries from the east are known as Dooley Canyon, Galeppi Creek and Spring Creek. Several small streams from the north rim of the valley are tributary during the freshet season to the north channel of the creek above its junction with the main river.

After entering the valley floor Last Chance Creek divides into two branches known as the North Channel of Last Chance Creek and as the East Channel of Last Chance Creek. The East Channel of the creek divides again into four branches from five to six miles below its head. The two uppermost branches which take off from the south side of the creek are tributary to the Smithneck Creek area. The third branch conveys water to the north where it eventually reaches the North Channel of the creek.

Smithneck Creek has two main tributaries entering the stream above the town of Loyalton. The tributaries are known as Bodenaugh Creek from the east and Bear Valley Creek, or, as it is sometimes called

Turner Creek, from the west. Immediately below the town of Loyalton, Smithneck Creek divides into three channels known as the East Branch, the Middle Branch and the West Branch of the Creek. Staverville Creek and two branch channels of Last Chance Creek are tributary to the East Branch of the creek. The three channels join again into one stream a short distance above its junction with the Middle Fork of Feather River.

Cold Creek has two main tributaries, namely, Onion Creek and Cottonwood Creek. Foreign water from the Little Truckee River is brought into Onion Creek by way of the Little Truckee Ditch. Some distance below the junction with Cottonwood Creek and Onion Creek the channel of Cold Creek joins that of Webber Creek, also known as Parker Creek. Webber Creek splits into two branches at the edge of the valley floor known as Town Creek and Perry Creek. Town and Perry Creeks follow approximately parallel courses for about four miles and then join again to form the Middle Fork of Feather River.

Hamlin Creek is formed by the combining of several branch creeks into one channel a short distance above the irrigated land. The channel then splits again into two branches which follow approximately parallel courses through the meadow for about one mile before joining again. A tributary from the west known as West Hamlin or Willow Creek joins the North Branch of the Creek near the division. A side channel which branches from the south channel after it enters the irrigated land also rejoins the main creek a short distance below the junction of the main branches.

Miller Creek divides into two channels at the edge of the irrigated land. The east channel joins the channel of Hamlin Creek

about two miles below the division. The west channel, or Milk Slough as it is sometimes called, is divided again about one and one-half miles from the division into two branches, one branch flows north to pass west of the mounds and the other branch flows east to join the east channel of the creek near the head of the West Side Canal. During periods of low flow practically all of the water is shunted into the branch flowing west of the mounds.

Turner Creek is joined by two tributaries after entering the irrigated land, namely, Turner Canyon and Spring Brook. Below the junction with its tributaries Turner Creek passes west of the mounds and follows the west edge of the irrigated land. Fletcher Creek joins Turner Creek east of the Town of Calpine. Spring Creek also joins Turner Creek near the mouth of Fletcher Creek after running parallel to Fletcher Creek through the Fletcher Creek basin.

A canal known as the West Side Canal has been constructed to intercept the flow of Hamlin Creek, Miller Creek, Turner Creek, Fletcher Creek and Spring Creek before it reaches the main river channel. The canal heads just south of the mounds and east of Sattley, where it intercepts the channels of Hamlin and Miller Creek, and runs in a northerly direction passing close around the east end of the mounds. After intercepting the channel of Turner Creek below its confluence with Fletcher Creek and Spring Creek, east of Calpine, the canal follows the west edge of the irrigated land as far as the junction of Craycroft Creek and the main river. The canal is about ten miles in length.

Of the land irrigated from the river and its tributaries above Beckwith less than five per cent occurs in the mountain areas

above the floor of Sierra Valley. The main body of the mountain area irrigated land lies along Last Chance Creek and its tributaries. Small areas are also found on Smithneck Creek, Webber Creek and Cold Creek.

There have been three reservoirs developed in the Middle Fork of Feather River stream system above Beckwith. The reservoirs are located on the California Lands Inc. Ranch, the Westover Co. Ranch and the Frank Carmichael Ranch. The first named reservoir is filled by ditch from Smithneck Creek, the two latter ones by sidehill drainage and canyons in the vicinity of Beckwith.

The California Lands, Inc. reservoir has a capacity of approximately 50 acre feet. The Westover Co. Reservoir has a capacity of about 200. acre feet and the Mapes Reservoir on the Frank Carmichael Ranch has a capacity of about 80 acre feet.

Two shallow lake areas exist in the valley, one is known as Last Chance Lake on the lower end of the East Channel of Last Chance Creek and the other known as Ede Lake is on the lower end of Smithneck Creek. The lakes are filled to overflowing in the spring of the year and then recede due to evaporation after the creeks fail. The lakes become entirely dry by the end of the summer. The Last Chance Lake has been estimated to have a capacity of 350 acre-feet and the Ede Lake a capacity of 140 acre-feet.

The total area embraced in the Middle Fork of Feather River stream system above Beckwith is approximately 540 square miles including the entire watershed area of Rowland Creek.

An estimate of the area of the tributary watersheds of the Middle Fork of Feather River above Beckwith follows:

Stream	Place	Area Square Miles
Frenchman Creek	above mouth	18
Last Chance Creek	above Frenchman Creek	65
Last Chance Creek	above mouth	195
Staverville Creek	above Vinton Road	10
Bear Valley Creek	above mouth	18
Smithneck Creek	above Bear Valley Creek	34
Smithneck Creek	above mouth	124
Antelope Creek	above Loyalton Road	14
Lemon Creek	above Loyalton Road	19
Cold Creek	above Webber Creek	25
Webber Creek	above junction with Cold Creek	13
Hamlin Creek	above Highway	11
Miller Creek	above Highway	9
Turner Creek	above Sattley	7
Fletcher Creek	above Beckwith Road	7
Craycroft Creek	above West Side Canal	21
Middle Fork of Feather River	above Beckwith	540

The snow that falls on the valley floor, which comprises about one-third the area of the Middle Fork of Feather stream system above Beckwith, melts early in the spring and is usually gone before the commencement of the growing season. Likewise the snow that falls on the lower portions of the tributary watersheds on the east side of the valley below elevation 5600 feet, usually melts prior to the commencement of the growing season.

The watersheds of Last Chance Creek, Staverville Creek,

Smithneck Creek, Antelope Creek, Lemon Creek, Cold Creek, Fletcher Creek, Craycroft Creek and several other creeks of lesser size normally have their greatest runoff in the fore part of the irrigation season. The flows of Staverville Creek, Antelope Creek and Craycroft Creek normally fail entirely about May 15th. The flows of Last Chance Creek, Smithneck Creek, Lemon Creek, Cold Creek and Fletcher Creek approach their minimum flows about June 15th. The smaller creeks generally fall into the class first described above.

Under normal conditions the flows of Webber Creek, Hamlin Creek, Miller Creek and Turner Creek are fairly well sustained from melting snow until early in July. The dry weather flow from perennial springs in this portion of the stream system is also well sustained amounting to a minimum flow of approximately 26.0 cubic feet per second.

CLIMATE

The predominating feature of the climate in Sierra Valley is the aridity. Climatic characteristics, other than scarcity of rainfall, are abundance of sunshine, wide range of temperature, low humidity, and rapid evaporation. The precipitation is generally confined to the winter months, about one-half of which is in the form of snow. There are occasional summer thundershowers, but they cannot be depended upon for crop growth. More than ninety percent of the total precipitation normally occurs between October 1st and May 31st. These climatic features indicate the supreme importance of irrigation for maturation and successful production of crops in this area.

A summary of the records of rainfall data that have been collected by the U. S. Weather Bureau at Sierraville and at Portola are presented in Tables 3 and 4, respectively. Table 5 is a summary of the temperature records at Sierraville, and Table 6 is a summary of snowfall records at the same station. Due to the varied topography in the basin of the Middle Fork of Feather River, marked differences in rainfall prevail at places but a short distance apart, as indicated by Tables 3 and 4. However, it is believed that the two records which have been tabulated are indicative of the variation which may be expected over the area.

The rainfall records at Sierraville indicate that the precipitation in the seasonal year 1935-1936 was 118 percent of normal. The records at Portola indicate that the precipitation at that station was 109 percent of normal for the same period.

The winters in Sierra 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 about March 1st. Above elevation 5000 feet the snow generally begins to melt about March 15th when the mean daily temperature approaches 40 degrees in the valley. The summers are warm throughout the day, but are cool during the night. During the period from June to September, inclusive, the monthly mean maximum temperature ranges from about 76 to 85 degrees. The highest recorded temperature at Sierraville in a 27 year record was 104 degrees and the lowest was minus 30 degrees, a range of 134 degrees.

The growing season in Sierra Valley for tender-leaf vegetation is short as killing frosts may occur any month in the year as indicated by the record of minimum temperatures.

Table 6 shows the snowfall at Sierraville during the months of December, January, February, March, and April for the 27 years of record at the station. Approximately one-half of the mean precipitation at Sierraville for the five winter months normally occurs in the form of snow, whereas the records indicate that in 1935-1936 only 29 percent of the precipitation which fell during this period was in the form of snow. Ten inches of snow has been considered equivalent to one inch of water.

Snow survey records have been collected since 1922 at stations located in the Little Truckee River Watershed near the headwaters of the streams flowing into Sierra Valley. The measurements made about April 1, 1936, at the three stations, Granite Peak, Webber Lake, and Webber Peak, indicated a slightly sub-normal snow crop in 1936. A measurement made at Church Meadows on the headwaters of the Yuba River

near Gold Lake showed a nearly normal condition for the snow crop there on April 1, 1936.

CROPS

Due to the shortness of the growing season, agriculture on a commercial basis is limited largely to the growing of meadow grasses. The hardier grains and alfalfa may also be grown in the area with a nominal application of irrigation water, but due to the possibility of occurrence of killing frost during the growing season very little of the area is planted to these crops.

The major portion of the meadow crops are cut for hay with a yield of from one to one and one-half tons per acre and then pastured during the late summer and fall. The uncut area of meadow is pastured throughout the spring and summer months. One crop of alfalfa hay is cut on the area planted to alfalfa and then pastured the rest of the growing season. The forage crops grown in the valley are consumed locally in the dairying and livestock industries.

A few small ranch orchards and gardens are grown on the ranches in the more protected portions of the valley.

Table 83 has been prepared showing the yields of various crops on typical lands irrigated from the Middle Fork of Feather River and its tributaries in 1936. As may be seen from this table, crop returns for the season of 1936 were, for the most part, satisfactory.

A shortage of water occurred for the lower portions of the Last Chance Creek and Smithneck Creek areas after the middle of May which affected the crop returns to some extent in these areas. The type of meadow grass grown on these creeks is largely an early maturing bunch grass which if adequately irrigated until about June 1st will ordinarily yield a normal crop.

The area served directly by the Middle Fork of Feather River, supplemented by foreign water from the Little Truckee River, had an ample supply of water to mature the crops. A limited amount of water was available for the irrigation of pasture after the haying season in this area.

RUN-OFF RECORDS

The standard method of collecting run-off records was used in the investigation. This consisted in the selection of a measuring station with a control of a permanent character. The station was equipped with a staff gage and an automatic water stage recorder which gave a continuous record of gage heights.

Sufficient current meter measurements were made at each station to construct a rating curve for same, 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, which is a common unit of measurement in this vicinity.

1. Last Chance Creek

An automatic water stage recorder was installed in Last Chance Creek below the old road crossing above the Giudici Ranch on April 23, 1936. The record of the discharge at the station has been tabulated in Table 8. Table 45 is a tabulation of the discharge of the F. P. Giudici Upper Ditch which diverts water from the creek above the recorder. Table 9 is the estimated flow of Last Chance Creek above the F. P. Giudici Upper Ditch.

Table 7 which is the discharge of the creek at the same station for the seasonal year 1916-17 was copied from the engineering report of the proposed Long Valley Irrigation District.

2. Smithneck Creek

There were three automatic water stage recorders installed on Smithneck Creek to obtain flow records in 1936.

Two of the stations were at the upper edge of the irrigated land and the other was located at the town of Loyalton. The upper station on Smithneck Creek proper was installed on May 9, 1936, above the irrigated land on the Terwilliger Ranch at the Bear Valley Road Crossing. One ditch, originally used for a power installation, diverts water above the recorder and by-passes the station. The record of discharge at the station has been tabulated in Table 11. Table 55 is a tabulation of the discharge of the power ditch opposite the recorder station, and Table 12 is a tabulation of the estimated discharge above all diversions.

The second station located above the irrigated land was installed on Bear Valley Creek above all diversions on May 9, 1936.

The recorder station in the town of Loyalton was installed on April 24, 1936, below the Clover Valley Lumber Company Millpond and above the channel division below Loyalton. The station is used to record the total flow in the creek above the division, at Diversion 90. The record of discharge for the station has been tabulated in Table 14. Diversions 78 to 89 inclusive divert water from Smithneck Creek and Bear Valley Creek between the two upper stations and the Loyalton station.

3. Lemon Creek

An automatic water stage recorder was installed on Lemon Creek on April 26, 1936. The station is located above diversion on Lemon Creek proper but does not include the flow from Blinman Spring

(Diversion 123). The record of discharge for the station has been tabulated in Table 15. Table 16 is a tabulation of the flow from Blinman Spring. Table 17 is a record of the combined flow of Lemon Creek and Blinman Spring.

4. Webber Creek

An automatic water stage recorder was installed on Webber Creek above the Town and Perry Creek Division on April 26, 1936. The station was located below Diversions 129 and 130 which divert water from the creek below the junction of Cold Creek with Webber Creek and also below Diversions 128 and 128-A which divert water from Cold Creek and Webber Creek, respectively, a short distance above the junction. Diversions 155, 156, and 157 which divert water from Webber Creek from one-half to one and one-half miles above the same junction are also above the recorder station. The record of discharge at the recorder station has been tabulated in Table 18. Table 19 is a tabulation of the combined natural flow in Cold Creek and Webber Creek above Diversions 128, 129, and 130. Table 21 is a tabulation of the net available water supply at the Town and Perry Creeks division. One ditch, Diversion 131, diverts water from the creek between the recorder station and the division structure. Tables 64, 65, 66 and 67 are tabulations of the amounts of water diverted by Diversions 128, 129, 130 and 131, respectively. Table 63 is a record of the amount of water diverted by the Amodei Ditch. No record was made of the amount of water diverted by Diversions 156 and 157.

5. Little Truckee Ditch

An automatic water stage recorder was installed on the Little Truckee Ditch on May 9, 1936. The station, which was located at the summit

of the pass between the Little Truckee River and Onion Creek, was used to record the inflow of Little Truckee River water into the Middle Fork of Feather River basin. The record of discharge has been tabulated in Table 20.

6. Hamlin Creek

An automatic water stage recorder was installed above the channel division on Hamlin Creek on April 23, 1936. Two ditches, Diversions 158 and 159, divert water above the recorder on the main creek and by-pass the station. The record of discharge at the station has been tabulated in Table 22. Tables 74 and 75 are records of the amounts of water diverted by Diversions 158 and 159, respectively. Table 23 is a record of the discharge of West Hamlin Creek which joins Hamlin Creek below the recorder. Table 24 is a tabulation of the total water supply of Hamlin Creek above diversions.

7. Miller Creek

An automatic water stage recorder was installed on Miller Creek above the channel division on April 22, 1936. One ditch, Diversion 167, diverts water above the recorder and by-passes the station. The record of discharge at the station has been tabulated in Table 25. Table 77 is a tabulation of the amount of water diverted by Diversion 167 and Table 26 is a tabulation of the discharge of Miller Creek above all diversion. Table 27 has been prepared to show the disposition of the flow of Miller Creek into the two channels below the recorder station.

8. Turner Creek

Two automatic water stage recorders were installed on Turner Creek during the 1936 season. The upper recorder was installed on

Turner Creek at the old sawmill on April 26, 1936. There is one ditch, Diversion 180, which diverted water from the main creek above the station, and a group of small ditches, Diversion 179, which diverted water from springs on a side canyon. The record of discharge at the station has been tabulated in Table 28. Table 78 is a tabulation of the amount of water diverted by Diversion 180. No record was made of the use from Diversion 179 as the irrigated area was small. Tables 29 and 30 are tabulations of the discharge of Turner Canyon above diversion and of Spring Brook at mouth, respectively.

Table 31 is a tabulation of the estimated total water supply of the Turner Creek Basin above diversions.

The second recorder was installed on Turner Creek at the state highway crossing on May 14, 1936. The station is located below the junction of Turner Creek, Turner Canyon, and Spring Brook. Diversions 181 to 185, inclusive, divert from the creek between the upper recorder station and the station at the state highway. The record of discharge at the station has been tabulated in Table 32.

9. Fletcher Creek

An automatic water stage recorder was installed on Fletcher Creek above the irrigated land on April 29, 1936. One conduit, Diversion 196, diverts water above the recorder and by-passes the station. The record of discharge for the station has been tabulated in Table 34. Table 35 is a tabulation of the amount of water diverted by Diversion 196.

Table 36 is a tabulation of the discharge of the Fletcher Creek Spring Channels above diversion.

10. Middle Fork of Feather River at Beckwith

An automatic water stage recorder was installed on the Middle Fork of Feather River at the railroad bridge south of Beckwith on May 8, 1936. The recorder was located so that all water leaving the valley would pass the station. The record of the discharge at the station has been tabulated in Table 44.

11. Staverville Creek

Staverville Creek has a limited season of run-off due to its low watershed. The water is ordinarily all diverted by the two upper ditches, Diversions 74 and 75, except during the freshet season when some water is used on land adjoining the irrigated land on Smithneck Creek.

12. Antelope Creek

Antelope Creek has a limited season of run-off due to its low watershed. The water is ordinarily all diverted by Diversions 120, 121, and 122. Freshet flows find their way into the Middle Fork of Feather River.

13. Craycroft Creek

Craycroft Creek has a large run-off early in the irrigation season but due to its low watershed generally fails prior to the middle of the irrigation season.

14. Discussion

An analysis of the climatological data described in the chapter on climate indicates that the rainfall in Sierra Valley during the seasonal year 1935-36 was from 9 to 18 percent above normal. The measured snowfall at Sierraville, however, indicates than an exceptionally

large percent of the precipitation occurred as rain rather than as snowfall. Table 6 shows this condition very clearly as the snowfall during the five winter months in 1935-36 was 30 percent below normal, whereas the total precipitation for this period was 30 percent above normal.

The snow measurements compiled by the Division of Water Resources in 1936 for stations adjoining the Sierra Valley Watershed in the Little Truckee River and Yuba River basins indicate that the run-off of the Middle Fork of Feather River would be slightly sub-normal in 1936. The measured flow of the Middle Fork of Feather River at Bidwell Bar shows an actual run-off from the whole Middle Fork of Feather River area of 93 percent of the normal. In the light of the foregoing discussion it appears likely that the run-off of the Sierra Valley streams were below normal a similar amount.

USE OF WATER AND DIVERSION MEASUREMENTS

The waters of the Middle Fork of Feather River and its tributaries are used for domestic and stockwatering purposes and for the irrigation of 40,470.9 acres of land.

It is the usual practice over almost the entire area to divert and spread the water directly over the land by means of artificial diversion systems. There are some small tracts, however, which are irrigated by seepage where the subsurface soil conditions are suitable for the spreading of the moisture to adjacent lands. The latter method of irrigation is generally designated as subirrigation.

A survey of the diversion systems and of the area irrigated from the Middle Fork of Feather River and its tributaries was made by the Division of Water Resources in 1936. A map was prepared from the survey comprising seven sheets on a scale of one inch to 1320 feet. The various map sheets show the following areas: Map Sheets 1, 2 and 3 show the Last Chance Creek area. Map Sheets 3 and 4 show the Smithneck Creek area. Map Sheets 3, 4, 5, 6 and 7 show the main stream of the Middle Fork of Feather River and its tributary area in the south and west portions of the valley.

The diversion points of the various conduits diverting from the Middle Fork of Feather River and its tributaries have been indicated on the map by numbers 1 to 277, inclusive. The uppermost diversion on Last Chance Creek is numbered as 1 and the numbers run thence consecutively downstream on that creek and on the other creeks and the main river taken in order from north to south.

The areas irrigated or subirrigated on the various ranches, as shown on the seven map sheets, were computed by the use of the planimeter. An acreage table entitled "Description of Areas Irrigated from Middle Fork of Feather River and Tributaries", is submitted as Table 1 at the end of this report. It has been prepared from the data contained on the map sheets and shows the ownerships, the number of irrigated acres and the descriptions thereof. The use of water under various diversion systems is further discussed hereinafter, under the sub-heading, "Description of Diversion Systems."

Continuous records were kept of the disposition made of the flow of the entire stream system by the water users during the period from April 22nd to September 30th, 1936.

Measuring stations were selected where possible on the various ditches as near as was practicable to the respective intakes. Records of flow past the stations were obtained by frequent readings by the engineer in charge of the investigation, supplemented by occasional measurements with a current meter. The daily flows of various ditches or the combined daily flows of certain groups of ditches are shown in the tables of this report. The number or numbers of the tables pertaining to each diversion are given under the description of that diversion hereinafter contained.

Whenever practical, measurements were made on the ditches for the purpose of determining the flow normally used for irrigation and the flow required to fill the ditch to capacity. These measurements are hereinafter referred to as the "normal irrigating head" and the "maximum capacity", respectively, of the conduit. The measurements were made near the heads of the respective ditches and in the presence of the ditch

owner or his representative, whenever possible.

The actual discharge measurements were made either with a current meter rated by the United States Geological survey at the Bureau of Standards in Washington, D.C., with temporary weirs, or were computed by extending the area-velocity relationship of measured flows.

DESCRIPTION OF DIVERSION SYSTEMS

The diversion systems from the Middle Fork of Feather River and its tributaries above Beckwith taken consecutively from 1 to 277 are described below. A summary of the data contained under these descriptions is submitted in Table 2 at the end of this report. In this table the names of the various ranches are listed alphabetically, according to streams and the respective diversion numbers and diversion names, and the total acreage irrigated on the ranch are given for each.

Diversion 1 is that of the Rowland Upper North and South Ditches from Rowland Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 13, T 25 N, R 15 E, M.D.B. & M.

Low rock and sod dams are used to divert water into the conduits which consist of two small earth ditches which lead directly onto the irrigated land. The flow in the ditches varies as the creek fluctuates as there are no regulating structures in either conduit.

A total area of about 10.0 acres of meadow is irrigated by Diversion 1 on the C. C. Rowland Ranch.

The ditches are customarily filled to capacity when irrigating. Any excess water diverted drains back to the stream above the next lower diversion.

The maximum capacity of each of the two ditches was estimated as 0.50 cubic foot per second.

Diversion 2 is that of the Rowland Lower South Ditches from the south side of Rowland Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 13, T 25 N, R 15 E, M.D.B. & M., and in Lot 2 and SE$\frac{1}{4}$ NW$\frac{1}{4}$ of Section 18, T 25 N, R 16 E, M.D.B. & M.

Loose rock and sod dams are used to divert water into the conduits. The upper conduit is about one-fourth mile in length and is used to spread water over the land lying to the south of the creek channel. The lower conduits are short and are used to divert supplementary water to the land on the same side of the creek. The area irrigated from the ditches all drains into Little Last Chance Creek.

A total area of 94.2 acres of meadow is irrigated by Diversion 2 on the C. C. Rowland Ranch.

The maximum capacity of the ditches was estimated as 3.5 cubic feet per second and the normal irrigating head as the same.

Diversion 3 is that of the Rowland Lower North Ditches from the north side of Rowland Creek in Lot 2 and SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 18, T 25 N, R 16 E, M.D.B. & M.

Loose rock and sod dams are used to divert water into the conduits. The upper conduit is about three-eighths mile in length and is used to spread water over the land lying to the north of the creek channel. The lower conduit is short and is used to divert supplementary water along the crown of the divide between the Little Last Chance Creek basin to the south and the Last Chance Creek basin to the north.

A total area of 76.2 acres of meadow is irrigated by Diversion 3,

on the C. C. Rowland Ranch all of which area drains northward into Last Chance Creek.

The combined maximum capacity of the ditches was estimated as 3.5 cubic feet per second and the normal irrigating head as the same.

Diversion 4 is that of the Rowland South Creek Ditches in Lot 4 and SE$\frac{1}{4}$ SW$\frac{1}{4}$, Section 18 and the NE$\frac{1}{4}$ NW$\frac{1}{4}$, Section 19, both in T 25 N, R 16 E, M.D.B. & M.

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

A total area of 57.7 acres of meadow is irrigated by Diversion 4 on the C. C. Rowland Ranch.

No measurements were made of the maximum capacities or normal irrigating heads of the ditches.

Diversion 5 is that of the Ramelli Ditch from the south side of Little Last Chance Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$, Section 19, T 25 N, R 16 E, M.D.B. & M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length.

A total area of 7.9 acres of meadow is irrigated from the ditch on the Alessio Ramelli Ranch of which 1.4 acres is on unpatented land.

The maximum capacity of the ditch was estimated as 0.80 cubic foot per second and the normal irrigating head as the same.

Diversion 6 is that of the Hall and Ramelli Ditch from the east side of Little Last Chance Creek in the NW¼ NW¼, Section 29, T 25 N, R 16 E, M.D.B. & M.

A loose rock and sod dam is used to divert water into the conduit which consists of an earth ditch about one mile in length. About three-fourths mile below the head of the conduit the ditch crosses a small ravine in a wooden flume. A rock dam and a small ditch divert whatever water is available in the ravine into the ditch for use at the lower end of the irrigated area and also irrigates a narrow strip above the main ditch.

A total area of 27.0 acres of meadow is irrigated from the ditch on the following ranches;

Owner	Normal maximum Irrigated acreage
Alessio Ramelli	13.4
Marietta Hall	(10.8
Not patented Land	(2.8
Total	27.0

The maximum capacity of the ditch was estimated as 1.3 cubic feet per second and the normal irrigating head as 0.70 cubic foot per second.

The flow of Little Last Chance Creek above Diversion 6 was measured as 1.90 cubic feet per second on May 26, 1936, the flow in the ditch on the same date was 0.70 cubic foot per second. The flow in the creek was measured as 0.05 cubic foot per second on July 16, 1936.

Diversion 7 is that of the Ramelli Spring Channel Ditches in the NE¼ NW¼, SE¼ NE¼ Section 30, SW¼ NW¼ and NW¼ SW¼ Section 29, all in T 25 N, R 16 E, M.D.B. & M.

Loose rock and sod dams are used to divert water into the upper conduits and concrete dams for the two lower conduits. The conduits all consist of earth ditches. The upper ditch on the north side of the creek is about three-fourths mile in length. It provides domestic water at the ranch buildings and serves the northerly edge of the irrigated land.

The ditch diverting from the south side of the creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$, Section 30, T 25 N, R 16 E, M.D.B. & M. is also about three-fourths mile in length. It serves the southerly portion of the irrigated land. The ditch intercepts the discharge of a shallow draw about 800 feet below its head. The water available in the draw may either be picked up by the ditch or allowed to flow into the main spring channel immediately above the upper of the two concrete dams in the meadow. The remaining ditches are relatively short except for the upper south side ditch which is about one-fourth mile in length.

A total area of 130.1 acres of meadow is irrigated from Diversion 7 on the Alessio Ramelli Ranch. The upper north ditch also provides water for 1.8 acres on the Marietta Hall Ranch.

The maximum capacity of the ditches is ample to irrigate the land served.

The discharge of the Ramelli Spring Channel was measured as 1.30 cubic feet per second on May 26, 1936 and decreased to about 0.15 on July 16, 1936.

Diversion 8 is that of the Trosi Last Chance Ditch from the east side of Little Last Chance in the SE$\frac{1}{4}$ NE$\frac{1}{4}$, Section 32, T 25 N, R 16 E, M.D.B. & M.

A rock and board dam was originally used to divert water into the conduit which has not been used for several years. The conduit consists of an earth ditch about three-fourths mile in length to the lower portion of the area served. The ditch crosses the channel of Dooley Canyon Creek near its lower extremity. The irrigated land consists of a narrow strip of meadow in the bottom of the canyon along Little Last Chance Creek.

A total area of 16.0 acres of meadow pasture is normally irrigated from the ditch on the Elsie Golden Ranch.

Diversion 8-A is that of the Trosi Dooley Canyon Ditch from the west side of Dooley Canyon in the NE¼ NE¼, Section 9 and SW¼ SE¼, Section 4, T 24 N, R 16 E, M.D.B. & M.

The area irrigated from the first point described above is small and is irrigated naturally when the creek is at moderate stages.

The area irrigated from the second point described above is served by an earth ditch about one-fourth mile in length.

A total area of 7.0 acres of meadow is normally irrigated from the diversion on the Elsie H. Golden Ranch.

The diversion system has not been used for several years as the dams have been washed out.

Diversion 9 is that of the Trosi Dixie Creek Ditch from the west side of Dixie Creek in the NE¼ NW¼, Section 5, T 24 N, R 16 E, M.D.B. & M.

A loose rock dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length. A total area of 11.5 acres of sage brush pasture is irrigated from the ditch on

the Elsie Golden Ranch.

The maximum capacity of the ditch was estimated as 0.80 cubic foot per second.

Diversion 10 is that of the Galeppi Upper Last Chance Ditches from Little Last Chance Creek in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 8 and in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 17, T 24 N, R 16 E, M.D.B. & M.

A rubble masonry dam is used to divert water into the conduits which consist of two earth ditches. The west side ditch has a total length of about one and one-fourth miles. The ditch crosses the lower channel of Grigsby Creek about one-fourth mile below its head and intercepts spring water from Diversion 248 about one-fourth mile below the Grigsby Creek channel. The extreme lower end of the ditch also intercepts spring water from Diversion 249.

The east side ditch has a total length of about one mile. A lateral takes off from the main ditch about one-eighth mile below its head to irrigate a small area of high ground above the main ditch. The lateral also provides stock water outside the fenced field. The main east side ditch runs through the corrals at the ranch house.

An area of approximately 98.4 acres is irrigated from the west side ditch supplemented by water from Diversions 11-A, 248 and 249 on the Rose Galeppi, et al, Ranch.

An area of approximately 60.0 acres is irrigated from the east side ditch on the same ranch.

The maximum capacity of the west side ditch was measured as 3.00 cubic feet per second and the normal irrigating head from the creek is 1.00 cubic foot per second. The maximum capacity of the east side

ditch was measured as 2.90 cubic feet per second and the normal irrigating head as 1.20 cubic feet per second.

The discharge of Little Last Chance Creek above Diversion 10 was measured as 2.00 cubic feet per second on June 12 and was estimated as 0.50 cubic foot per second on June 22, 1936.

Diversion 11 is that of the Trosi Grigsby Creek Ditch from the east side of Grigsby Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 8, T 24 N, R 16 E, M.D.B. & M.

A loose rock dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length. The ditch conveys a portion of the water diverted over a ridge for use on some of the bottom land on Little Last Chance Creek above Diversion 10.

A total area of 49.6 acres of meadow pasture is irrigated from the ditch on the Elsie Golden Ranch.

The maximum capacity of the ditch was measured as 1.50 cubic feet per second.

Diversion 11-A is that of the Galeppi Grigsby Creek and Trosi Cabin Ditches from Grigsby Creek and Trosi Cabin Spring Creek in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 8, NE$\frac{1}{4}$ NW$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 17, T 24 N, R 16 E, M.D.B. & M.

Loose rock and sod dams are used to divert water into the conduits which all consist of short earth ditches except the upper south tap. The upper south tap is about three-fourths mile in length and follows the west outline of the irrigated land. Diversion 248 delivers water into the ditch about one-half mile below the head to supplement the diversion from Grigsby Creek and Trosi Cabin Spring Creek.

Return water from Diversion 11-A is picked up by the west side ditch of Diversion 10 as described hereinbefore.

A total area of about 66.2 acres of meadow is irrigated from Diversion 11-A in conjunction with Diversion 248. The irrigated land is owned as follows:

Owner	Normal Maximum Irrigated Acreage
Elsie Golden	8.0
Rose Galeppi, et al	58.2
Total	66.2

The maximum capacities of the ditches from Diversion 11-A are ample to irrigate the area served.

Diversion 11-A has a dry weather flow of approximately 0.10 cubic foot per second.

Diversion 12 is that of the Galeppi Lower Last Chance Creek Ditches from both sides of Little Last Chance Creek in the SW¼ SE¼ Section 17, T 24 N, R 16 E, M.D.B. & M. An auxiliary dam to irrigate a portion of the same area is located in the SE¼ NE¼ Section 20, T 24 N, R 16 E, M.D.B. & M.

A wooden dam is maintained in the creek to divert water into the conduits which consist of earth ditches each about one mile in length. A portion of the area irrigated from the east side ditch can also receive water from the auxiliary dam described above. The west side ditch picks up supplementary water from Diversions 249 and 250.

A total area of 109.4 acres of meadow is irrigated from Diversion 12 supplemented by Diversions 249 and 250 on the Rose Galeppi, et al, Ranch.

The maximum capacity of the east side ditch was measured as 1.40 cubic feet per second and of the west side ditch as 4.50 cubic feet per second. No measurements of normal irrigating heads were made.

Diversion 13 is that of the Trosi Camp Ditches from an unnamed canyon in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 21, T 24 N, R 16 E, M.D.B. & M.

A rock and sod dam is used to divert the water into the conduits which consist of two earth ditches. The west ditch is short but the east ditch is about one-half mile in length.

A total area of 79.0 acres of meadow is irrigated from Diversion 13 on the Elsie Golden Ranch.

The capacities of the ditches are ample to irrigate the area served.

The water supply available for Diversion 13 is limited due to the small tributary run-off area. A small spring in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 28, T 24 N, R 16 E, M.D.B. & M., furnishes stock water throughout the year.

Diversion 14 is that of the Giudici Upper Spring Creek Ditch from the north side of Spring Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 25, T 24 N, R 16 E, M.D.B. & M.

A rock and dirt dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length.

A total area of 20.0 acres of meadow is irrigated from the ditch on the Fred P. Giudici, et al, Ranch.

The maximum capacity and normal irrigating head of the ditch was measured as 0.55 cubic foot per second.

The flow of Spring Creek above Diversion 14 varied from 0.65

cubic foot per second on May 26th to 0.10 cubic foot per second on July 16, 1936.

Diversion 15 is that of the Giudici Lower Spring Creek Ditches from both sides of Spring Creek in the NW¼ SE¼, NE¼ SW¼, SW¼ NW¼ Section 35 and SE¼ NE¼ Section 34, T 24 N, R 16 E, M.D.B. & M.

Board and sod dams are used to divert water into the conduits which are earth ditches scattered along about one mile of creek channel. All of the ditches are less than one-half mile in length and either run through or border the irrigated land throughout their length. The flow in the creek channel is supplemented throughout the meadow area by return water from irrigation and from seepage from small springs.

A total area of 83.3 acres of meadow is irrigated from the ditches on the Fred P. Giudici, et al, Ranch.

The maximum capacities of the ditches are ample to irrigate the area served.

Diversion 16 is that of the Galeppi Spring Creek Ditches from both sides of Spring Creek in the SE¼ SW¼ and SW¼ SW¼ Section 27 and NE¼ SE¼ and SE¼ NE¼ Section 28, T 24 N, R 16 E, M.D.B. & M.

Gravel and sod dams are used to divert water into the upper conduits which consist of earth ditches about three-eighths mile in length on each side of the creek. The lower ditches are short and lead directly onto the irrigated land.

A total area of 45.4 acres of meadow is irrigated from the ditches on the Rose Galeppi, et al, Ranch.

The maximum capacities of the ditches are ample to irrigate the areas served.

Diversion 17 is that of the Galeppi Creek Ditches from both sides of Galeppi Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$, NE$\frac{1}{4}$ SW$\frac{1}{4}$, SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 27, T 24 N, R 16 E, M.D.B. & M.

Loose rock and sod dams are used to divert water into the conduits which consist of earth ditches. The upper north ditch is about three-fourths mile in length and follows the outer border of the meadow throughout its course. The other ditches are relatively short and divert directly onto the irrigated land.

A total area of 115.7 acres of meadow is irrigated from the ditches on the Rose Galeppi, et al, Ranch.

The maximum capacities of the ditches are ample to irrigate the area served.

The flow of Galeppi Creek above Diversion 17 varied from 0.60 cubic foot per second on May 26 to 0.03 cubic foot per second on July 16, 1936.

A small spring in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 27, T 24 N, R 16 E, M.D.B. & M. produces stock water and supplementary irrigation water for a limited area.

Diversion 18 is that of the Trosi Spring Creek Ditches from both sides of Spring Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$, SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 28, T 24 N, R 16 E, M.D.B. & M.

Board and sod dams are used to divert water into the conduits which consist of short earth ditches leading directly onto the irrigated land on the north side of the creek and two short and one long earth ditches on the south side. The long ditch parallels the creek channel and irrigates a narrow strip between the ditch and the creek. The ditch is

about 0.8 mile in length.

An area of 32.1 acres of meadow is irrigated from the ditch on the Elsie Golden Ranch and a small area described under Diversions 16 and 17 on the Rose Galeppi, et al, Ranch.

The maximum capacity of the ditches is ample to irrigate the area served.

Diversion 19 is that of the Ramelli and Dotta Frenchman Creek Ditches from both sides of Frenchman Creek in the SW¼ SE¼ Section 25, T 24 N, R 15 E, M.D.B. & M.

The dam originally used to divert water into the conduits was washed out several years ago and due to excessive washing of the creek channel has never been replaced. The conduits which consisted of earth ditches are now poorly defined due to non-use. It is planned to replace the dam with another one at a site to be chosen upstream from the old location.

A total area of 147.7 acres of meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Adelina Ramelli	76.2
Frank V. Dotta	71.5
Total	147.7

The irrigated land on the Dotta Ranch also receives irrigation water from Diversion 251.

Diversion 20 is that of the Trosi Frenchman Creek Ditches from both sides of Frenchman Creek in SW¼ NW¼ and NW¼ SW¼ Section 28, T 24 N, R 16 E, M.D.B. & M.

Loose rock and sod dams are used to divert water into the conduits which consist of earth ditches. The north side ditch is about one-fourth mile in length and runs for most of its course through the irrigated land. The south side ditch is about one-half mile in length and does not enter the irrigated land until about one-fourth mile below its head.

A total area of 41.0 acres of meadow is irrigated from the ditches on the Elsie Golden Ranch.

The maximum capacities of the ditches are ample to irrigate the area served.

The southside ditch receives some supplementary water from springs located in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 28, T 24 N, R 16 E, M.D.B. & M.

Diversion 21 is that of the F. P. Giudici Upper Ditch from the east side of Last Chance Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 11, T 23 N, R 16 E, M.D.B. & M.

A concrete dam with horizontal flashboards is used to divert water into the conduit which consists of an earth ditch about two miles in length. A small area of meadow pasture is irrigated about three-fourths mile below the head of the ditch. The ditch enters the main body of irrigated land about one and one-half miles below the head of the ditch.

The ditch is the sole supply of water for 44.9 acres of meadow on the Fred P. Giudici Ranch and supplies supplemental water to the area listed as irrigated by Diversion 22.

The maximum capacity of the ditch was measured as 3.00 cubic feet per second and the normal irrigating head as 2.20 cubic feet per second.

The amount of water diverted by the F. P. Giudici Upper Ditch

from May 1st to June 30, 1936 has been tabulated in Table 45.

Diversion 22 is that of the F. P. Giudici Lower Ditch from the east side of Last Chance Creek in the SW¼ SE¼ Section 11, T 23 N, R 16 E, M.D.B. & M.

A concrete dam with horizontal cross log and flashboards is used to divert water into the conduit which consists of an earth ditch about one-half mile in length to where it enters the main body of the irrigated land. The ditch continues for about another mile partly as a ditch and partly in sloughs.

A total area of 302.8 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Fred P. Giudici, et al	240.5
M. Giudici	62.3
Total	302.8

The maximum capacity of the ditch was measured as 10.8 cubic feet per second and the normal irrigating head as 6.50 cubic feet per second.

The drainage from Diversions 21, 22 and 23 collects in a slough which runs along the east edge of the irrigated land and returns to the East Channel of the creek on the M. B. Humphrey Ranch. The water collected in the slough by-passes the Sobrio diversions, the head of the north channel of the creek, and the upper Humphrey ditches.

The amount of water diverted by the F. P. Giudici Lower Ditch from May 1st to June 30, 1936 has been tabulated in Table 46.

The amount of drainage and return water collecting in the slough

below the M. Giudici Ranch from May 4th to June 30, 1936 has been tabulated in Table 51.

Diversion 23 is that of the A. E. Giudici Dams from both sides of Last Chance Creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 23, T 23 N, R 16 E, M.D.B. & M.

The upper dam is a concrete and rubble masonry dam with horizontal cross log and flashboards which diverts water into ditches on both sides of the creek. Both ditches are about three-fourths mile in length.

The lower dam is a combination concrete dam and bridge foundation using horizontal flashboards which diverts water into short ditches on both sides of the creek to supplement the supply received from the upper dam. The lower dam is in the backwater from Diversion 24 and is partly submerged when that dam is fully closed.

A total area of 180.0 acres of meadow is irrigated from the ditches on the Alex E. Giudici Ranch. Drainage water from the upper east side ditch finds its way into the drainage slough described under Diversion 22. Drainage water from the upper west side ditch collects in a swale and is used in conjunction with drainage from Diversions 24 and 25 to irrigate approximately 50.0 acres of meadow lying north of the north channel of the creek on the Elsie Golden Ranch.

The maximum capacity and the normal irrigating head of the upper east side ditch were measured as 4.50 cubic feet per second and 4.00 cubic feet per second, respectively. The maximum capacity and normal irrigating head of the upper west side ditch were measured as 3.20 cubic feet per second and 2.80 cubic feet per second, respectively. The lower

dam was not used in 1936.

The amounts of water diverted by the two ditches at the upper dam from May 1st to June 27, 1936 have been tabulated in Tables 47 and 48.

Diversion 24 is that of the Sobrio Upper Dam Ditches from both sides of Last Chance Creek in the NE¼ SW¼ Section 23, T23N, R16E, M.D.B.&M.

A rubble masonry dam with horizontal cross log and flashboards is used to divert water into conduits on both sides of the creek. The principal west side ditch heads about one-eighth mile above the dam and is about three-eighths mile in length. In addition there are two small west side ditches taking out near the dam. There are also two ditches on the east side heading immediately above the dam. The upper ditch of the east side conduits is about one-eighth mile in length and conveys water along the upper edge of the Sobrio property. The lower ditch spreads directly onto the meadow but collects in a slough and is rediverted for use wherever necessary.

Diversion 24 is used in conjunction with Diversion 25 to irrigate a total area of 187.1 acres of meadow on the Guy Sobrio Ranch.

Drainage from the east ditches collects in the slough described under Diversion 22, below the point of measurement on the slough and returns to the creek in the same manner. Drainage from the west side ditches is used in conjunction with drainage from Diversions 23 and 25 to irrigate about 50.0 acres of meadow on the Elsie Golden Ranch.

The maximum capacities of the ditches heading at Diversion 24 were measured as 1.70 cubic feet per second on the west side and 5.0 cubic feet per second on the east side. The normal irrigating head was

measured as 0.80 cubic foot per second on the west side and 1.80 cubic feet per second on the east side.

The amount of water diverted by Diversions 24 and 25 for the period May 1st to June 27, 1926 has been tabulated in Table 49.

Diversion 25 is that of the Sobrio Lower Dam Ditches from both sides of Last Chance Creek in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 23, T23N, R16E, M.D. B.&M.

A concrete dam with horizontal cross log and flashboards is used to divert water into several conduits on both sides of the creek. The conduits are all small and lead directly onto the irrigated land. A portion of the water diverted on the east side is picked up in a slough and ditch and flumed across the East Channel of the Creek to irrigate the area lying between the East and North channels immediately below the division.

The diversion is used in conjunction with Diversion 24 to irrigate a portion of the area listed as irrigated therefrom.

The maximum capacity of the ditches was not determined but is large when the dam is fully closed. The normal irrigating head was measured as 0.80 cubic foot per second.

The amount of water diverted by Diversion 25 has been combined with Diversion 24 and has been tabulated in Table 49.

Table 50 has been prepared to show the flow in Last Chance Creek at the division into the North Channel and the East Channel of the creek.

Table 51 has been prepared to show the return flow in the east side slough below the M. Giudici Ranch.

Table 52 has been prepared to show the combined daily consumption from Diversions 21 to 25, inclusive.

Diversions 26, 27 and 28 are those of the Trosi Upper, Trosi Middle and Trosi Lower Ditches all on the south side of the north channel of Last Chance Creek in the NE¼ NE¼ and NW¼ NE¼ Section 27, T23N, R16E, M.D.B.&M.

Concrete dams are used to divert water into the conduits which consist of short earth ditches except for the Trosi Upper Ditch which is about one-half mile in length.

The Trosi Upper Dam is located about one-eighth mile below the channel division on Last Chance Creek and when raised to near its full height backs water into the division structure at the head of the two channels. Consequently, the dam must be operated with care or the equal division between the two channels is disturbed.

A total area of 126.8 acres of meadow is irrigated from Diversions 26, 27 and 28 on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Elsie Golden	96.8
Frank V. Dotta	30.0
Total	126.8

No measurements of capacities or of amounts of water diverted were made in 1936.

Table 53 has been prepared to show the total amount of water reaching the new state highway from both branches of the creek.

Diversions 29,30 and 31 are those of the F. V. Dotta Upper, F. V. Dotta Middle and F. V. Dotta Lower Ditches all on the west side of Last Chance Creek in the SE¼ NW¼ Section 27 and the NE¼ SE¼ Section 28 T23N, R16E, M.D.B.&M.

Concrete dams with horizontal flashboards are used to divert water into the conduits which consist of three earth ditches. The ditch from Diversion 29 is about three-fourths mile in length, that from Diversion 30 about one-eighth mile in length and that from Diversion 31 about one and one-fourth miles in length. Waste water and drainage from Diversion 31 collects in a slough leading onto the Philip E. Ede Ranch where it is used to supplement water from Diversion 33.

A total area of 320.0 acres of meadow is irrigated from Diversions 29, 30 and 31 on the F. V. Dotta Ranch. Diversion 31 also provides supplemental water for about 20.0 acres of meadow on the Adelina Ramelli Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936. However, the maximum capacities of the ditches were observed to be ample.

Table 53 has been prepared to show the total amount of water reaching the new state highway from both branches of the creek.

Diversion 32 is that of the Ramelli North Channel from both sides of the North Channel of Last Chance Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 28, T23N, R16E, M.D.B.&M.

Two concrete dams are used to divert water into the conduits which consist of earth ditches on both sides of the creek. The upper west side ditch is about one-eighth mile in length and feeds into two shallow sloughs which are used in conjunction with a small ditch from the lower dam to irrigate all of the Adelina Ramelli land on the west side of the creek. A few acres of the area also receive supplemental water from Diversion 31.

The upper and lower east side ditches irrigate a narrow strip of land between the creek and a shallow slough east of the creek.

The lower dam in the north channel of the creek which is about one-eighth mile below the upper dam was in poor condition in 1936 and was not used.

A total area of 81.2 acres of meadow is irrigated from Diversion 32 on the Adelina Ramelli Ranch.

The normal irrigating head of the upper west side ditch was measured as 2.00 cubic feet per second with a maximum capacity about double that amount.

The normal irrigating head of the upper east side ditch was measured as 1.50 cubic feet per second with a maximum capacity of about 2.00 cubic feet per second. The two lower ditches are small and divert directly onto the irrigated land.

No record was kept of the amount of water diverted by the ditches in 1936. The total amount of Last Chance Creek water passing the new highway has been tabulated in Table 53.

Diversion 33 is that of the Ede Schoolhouse Ditches from both sides of the North Channel of Last Chance Creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 33, T23N, R16E, M.D.B.&M.

A concrete dam with horizontal cross log and flashboards is used to divert water into the conduits which consist of two earth ditches. The south side ditch is about five-eighths mile in length and is used in conjunction with Diversion 34 to irrigate the land lying on the south side of the creek.

The north side ditch is about three-fourths mile in length to where it may be spilled into the drainage slough from the F. V. Dotta

Ranch described under Diversion 31. A dam in the slough, below the spillway from the ditch, is used to divert water into a continuation of the ditch which conveys water onto the land lying west of the Ede Ranch house. Another dam in the slough about one-fourth mile below the one described spreads water onto the lands lower down the slough. The spillway into the slough from the ditch is rarely used as the Ede Ranch depends upon the overflow from the F. Dotta Ranch for water on the land lying west of the Slough.

A total area of 432.2 acres of meadow, grain and alfalfa is irrigated by Diversion 33 in conjunction with Diversion 34 and the drainage from Diversion 31 on the Philip E. Ede Ranch.

The maximum capacity of Diversion 33 is large. The normal irrigating head of the ditches is about 7.00 cubic feet per second.

No record was kept of the amount of water diverted in 1936.

Diversion 34 is that of the Ede Lower Ditches from both sides of the North Channel of Last Chance Creek in the NE¼ NE¼ Section 32, T23N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of two earth ditches about one-fourth mile in length. The ditches are used to supply supplemental water to a portion of the area described under Diversion 33 on the Philip E. Ede Ranch.

No measurements of capacity were made on the ditch in 1936.

Diversion 35 is that of the Goble Upper North Channel Ditches from the west side of the North Channel of Last Chance Creek in the NW¼ SE¼ Section 32, T23N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch. The main ditch spills into the channel of the

slough described under Diversion 33 below the Ede Ranch. A dam in the slough then distributes the available water in the slough into a number of laterals which are used to irrigate 166.0 acres of meadow and 650.7 acres of sagebrush pasture on the north side of the creek on the Edmond J. Goble Ranch.

No measurements of maximum capacity or of normal irrigating head were made in 1936.

Diversions 36 and 37 are those of the Goble Middle North Channel and Goble Lower North Channel Ditches from the North Channel of Last Chance Creek in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 32, T23N, R16E, M.D.B.&M.

Concrete dams are maintained in the creek channel for each diversion to divert water into the conduits which consist of short earth ditches leading directly onto the irrigated land.

A total area of 85.0 acres of meadow is irrigated from the ditches on the Edmond J. Goble Ranch. Waste water from Diversions 36 and 37 is used in conjunction with water from Diversion 62 to irrigate a portion of the Annetta Solari Ranch.

No measurements of capacity were made on the ditches in 1936.

Diversion 38 is that of the Solari North Channel Ditches from both sides of the North Channel of Last Chance Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ of Section 5, T22N, R16E, M.D.B.&M.

A timber dam is used to divert water into the conduits which consist of earth ditches. The east ditch is short and supplies supplemental water to a portion of the area irrigated from Diversions 37 and 62. The west ditch is about one-half mile in length and is used to irrigate the land lying west of the creek channel.

Areas of 126.6 acres of meadow and 120.3 acres of sagebrush

pasture are irrigated from Diversion 38 on the Annetta Solari Ranch.

Waste water from the irrigated land collects in a slough near the southwest corner of the Solari Ranch and runs onto the Huntley Ranch where a dam is maintained in SE¼ SE¼ Section 12, T22N, R15E, M.D.B.&M. to divert the water back to the creek channel. Any water passing the dam in the slough is picked up by Diversion 43 as described hereinafter.

No measurements of capacity were made on the ditches in 1936.

Diversion 39 is that of the Laffranchini North Channel Ditches from both sides of the North Channel of Last Chance Creek in the NW¼ SE¼ Section 6, T22N, R16E, M.D.B.&M.

A combined concrete dam and bridge foundation structure using horizontal flashboards is used to divert water into the conduits. The west side conduit is a short earth ditch which is used at normal stages of the creek to irrigate a small area west of the creek. Flood water has been diverted by the west side conduit to irrigate a large area of sagebrush pasture. Any excess water diverted is returned directly to the creek during moderate flows.

The east side conduit is an earth ditch about one mile in length. It has a branch ditch taking off near its head which lateral is about one-fourth mile in length. The flow in the main ditch is regulated by a headgate immediately below the road and in the branch ditch by flashboards on the upper end of the road crossing culvert.

A total area of 673.5 acres of meadow and sagebrush pasture is irrigated from Diversion 39 on the following ranches:

Owner		Maximum Acreage Normally Irrigated
C. D. Laffranchini		545.7
Jennie F. Huntley		127.8
	Total	673.5

413.0 acres of the area irrigated on the C. D. Laffranchini Ranch are sagebrush pasture. The area irrigated on the Jennie F. Huntley Ranch also receives water from Diversion 67.

The main east side ditch has a maximum capacity of approximately 10.0 cubic feet per second below the branch ditch. The maximum capacity of the branch ditch is about 4.00 cubic feet per second. The west side ditch has a maximum capacity of several cubic feet per second. No measurements of normal irrigating head were made.

The combined amount of water in the north and east channels above the Laffranchini road for the period from May 6th to June 18, 1936 has been tabulated in Table 54.

Diversion 40 is that of the Huntley Upper North Channel Ditch from the north side of the North Channel of Last Chance Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 1, T22N, R15E, M.D.B.&M.

A concrete dam with cross-log and horizontal flashboards is used to divert water into the conduit which consists of an earth ditch about one-half mile in length.

The ditch is used in conjunction with Diversions 41 and 42 to irrigate 393.1 acres of meadow on the Jennie F. Huntley Ranch.

No measurements of capacity were made on the ditch in 1936.

Diversion 41 is that of the Huntley Middle North Channel Ditch from both sides of the North Channel of Last Chance Creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 12, T22N, R15E, M.D.B.&M.

A concrete dam is 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 40 and 42 to irrigate 393.1 acres of meadow on the Jennie F. Huntley Ranch.

No measurements of capacity were made in 1936.

Diversion 42 comprises those of the Huntley Lower North Channel Ditches from both sides of the North Channel Creek in the SW¼ SW¼ Section 1, T22N, R15E, M.D.B.&M.

The North channel of the creek splits into two branches at Diversion 42. Concrete dams with horizontal flashboards are maintained in both branches to regulate the division between the channels and to raise the water level high enough to permit diversion by several small conduits which lead directly onto the irrigated land.

Diversion 42 is used in conjunction with Diversions 40 and 41 to irrigate 393.1 acres of meadow on the Jennie F. Huntley Ranch.

No measurements of capacity were made in 1936.

Diversions 43 and 44 are those of the Wherity North, and the Wherity South Ditches from both sides of both branches of the North Channel of Last Chance Creek in the NE¼ SW¼ Section 1 and the NE¼ NW¼ Section 11, respectively, T22N, R15E, M.D.B.&M.

An earth ditch has been constructed connecting Diversions 43 and 44 so that water may be conveyed from one to the other according to the irrigation needs. This ditch is extended from Diversion 43 in a northwesterly direction for a distance of about one mile. A second northerly ditch heads lower down the channel and extends about three-fourths mile in the same general direction.

A high line conduit along the south side of the irrigated land heads from Diversion 44 about one-fourth mile below the cross ditch described above. This conduit is an earth ditch about one and one-fourth miles in length.

The control of water diverted at Diversions 43 and 44 is

accomplished by means of timber structures in the channels and ditches.

A total area of 460.6 acres of meadow is irrigated from Diversions 43 and 44 in conjunction with Diversions 45 and 46 on the following ranches.

Owner	Normal Maximum Irrigated Acreage
Josephine Roberti	200.9
C. D. Laffranchini	259.7
Total	460.6

No measurements of capacity or of amounts of water diverted were made in 1936.

Diversion 45 is that of the Wherity Upper Dam from both sides of the North Channel of Last Chance Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 2, T22N, R15E, M.D.B.&M.

A timber dam is maintained in the creek channel at the junction of the two branches of the creek described hereinbefore under Diversion 42 to pond water over a considerable area of low ground on the Josephine Roberti Ranch. The area irrigated has been included in the area described under Diversions 43 and 44.

The dam is customarily filled and released several times during the irrigating season with an attempt being made to hold the last filling as long as possible.

No measurements were made of the amount of water used.

Diversion 46 is that of the Wherity Lower Dam from both sides of the North Channel of Last Chance Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 3, T22N, R15E, M.D.B.&M.

A wooden dam is used to back water into the sloughs and low areas above the dam and to force a portion of the water into a side slough

which irrigates a portion of the area near the lower end of the long ditch from Diversion 44. The dam has not been used for several years and is in a poor state of repair.

The area irrigated by the dam on the C. D. Laffranchini Ranch has been included in the area described under Diversions 43 and 44.

Diversion 47 is that of the Bonta North Ditch from the north side of a branch channel of the North Branch of Last Chance Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 34, T23N, R15E, M.D.B.&M.

A wooden gate structure is maintained in the creek channel to divert water into the conduit which consists of an earth ditch about one-fourth mile in length.

An area of about 66.0 acres is irrigated exclusively from the ditch on the J. A. and S. A. Bonta Ranch.

Excess water is collected by a channel in the meadow and is used on the area described hereinafter under Diversion 49.

No measurement of capacity or of amounts of water diverted were made in 1936.

Diversion 48 is that of the Bonta South Ditch from the south side of the North Channel of Last Chance Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 34, T23N, R15E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch one and one-half miles in length.

The ditch is used to bypass flood water around the upper portion of the irrigated land and to irrigate exclusively about 100.0 acres of meadow on the J. A. and S. A. Bonta Ranch. Excess water is collected in a channel in the meadow and is used on a portion of the area described under Diversion 49.

No measurements of capacity or of amounts of water diverted were made in 1936.

Diversion 49 is that of the Bonta Meadow from both sides of the North Channel of Last Chance Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 34, T23N, R15E, M.D.B.&M.

The creek channel is shallow at Diversion 49 and the water may be readily diverted into any one of three channels heading at that point. The two southerly channels are shallow and are used as ditches from which the water is spread as desired. The north channel has been equipped with a wooden dam about one-fourth mile below the division point. The dam has been supplemented by an earth levee extending to the railroad on one side and to high ground on the other so as to create a pond which will cover several acres when full. The water in the pond may either be released through the dam and used below or forced around the levee on to high ground or held for ponding irrigation. The dam also intercepts water from a channel through the railroad which collects the drainage from the foothills to the north.

About three-fourths mile below the dam described above are the remnants of another earth dam across the bottom land of the creek. This dam which intercepted the water from the north and middle channel of the creek has been washed out for several years and was not used in 1936.

A total area of 297.4 acres of meadow is irrigated from Diversion 49 on the J. A. and S. A. Bonta Ranch.

No measurements of capacity or of amounts of water diverted were made.

Diversion 50 is that of the Dedmon North Ditch from the north side of the North Channel of Last Chance Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 32,

T23N, R15E, M.D.B.&M.

An old rock and board dam is used to divert water into the conduit which consists of an earth ditch three-eighths mile in length to where it spills into a slough along the north edge of the irrigated land. A rock dam is used to redivert the water from the slough to the north into another ditch about one-half mile in length. An occasional low rock dam has been constructed in the creek channel below the head of the ditch to hold up the water level and to supplement the water diverted by the ditch.

A total area of about 205.0 acres of meadow is irrigated from Diversion 50 on the C. D. Laffranchini Ranch.

The diversion dams were not operated in 1936 and the land received water for only a limited period during high water.

Diversion 51 is that of the Dedmon South Ditch from the south side of the North Channel of Last Chance Creek in the NE¼ SE¼ Section 32, T23N, R15E, M.D.B.&M.

A rock and board dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length.

A total area of about 26.0 acres of meadow is irrigated from the ditch on the C. D. Laffranchini Ranch. The ditch was not used during the period of investigation in 1936.

Diversion 52 is that of the Maddalena South Ditch from the south side of the North Channel of Last Chance Creek in the SE¼ SW¼ Section 31, T23N, R15E, M.D.B.&M.

A rock and board dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length. Excess water from the ditch collects in a slough channel south of the

ditch from which it is rediverted by a board dam to irrigate the land adjoining the area irrigated from Diversion 242.

A total area of about 105.0 acres of meadow is irrigated from Diversion 52 on the L. D. Maddalena Ranch.

No measurements of capacity or of amounts of water diverted were made in 1936.

Diversion 53 is that of the Maddalena North Ditch from the north side of the North Channel of Last Chance Creek in the S½ of Lot 2 of SW¼ Section 31, T23N, R15E, M.D.B.&M.

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

A total area of about 34.9 acres of meadow is irrigated from the diversion on the L. D. Maddalena Ranch.

No measurements of capacity or of amounts of water diverted were made in 1936.

Diversion 54 is that of the Noble South Ditch from the north side of the North Channel of Last Chance Creek in the NE¼ NE¼ Section 1, T22N, R14E, M.D.B.&M.

A concrete dam is maintained in the main channel of the creek about one-eighth mile above its junction with the Middle Fork of Feather River. The dam diverts water into an earth ditch which spills the water into a dry slough from which the water is rediverted by Diversion 55 as described hereinafter. A limited area is irrigated directly from the ditch and from the slough. The water rediverted by Diversion 55 is supplemented by water from Diversion 243.

A total area of about 45.0 acres of meadow is irrigated from

the ditch on the lands of Westover Company. The area irrigated in conjunction with Diversion 55 is discussed under that diversion.

No measurements of capacity or of amounts of water diverted were made in 1936.

Diversion 55 is that of the Noble North Ditches from the north side of the North Channel of Last Chance Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 36, T23N, R14E, and the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 1, T22N, R14E, M.D.B.&M.

A wooden dam is maintained in the old slough channel below the spill from Diversions 54 and 243 to back water along the slough channel. The ditch heading in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 36, T23N, R14E, M.D.B.&M. is a high ditch into which the water is lifted about four feet with a ladder pump. The lower ditch heading at the location secondly described above diverts by gravity into an earth conduit about three-eighths mile in length.

A total area of 176.3 acres of meadow and open ground is irrigated from Diversion 55 on the lands of Westover Company as a re-diversion from Diversions 54 and 243.

The high line ditch was not used in 1936.

Diversion 56 comprises those of the M. B. Humphrey East Side Ditches from the east side of the East Channel of Last Chance Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 27, T23N, R16E, M.D.B.&M.

A log and board dam is used to divert water into the upper east side conduit which consists of an earth ditch about one mile in length. About 400 feet below the head of the ditch the water is forced across the east side slough, described under Diversion 22, by means of a wooden dam in the slough. The creek dam is closed only when there is inadequate water in the slough to irrigate the land served by the ditch.

About three-eighths mile below the head of the conduit the ditch crosses another slough into which a portion of the water is allowed to flow for re-diversion at a concrete dam in the slough in the SW¼ SE¼ Section 27, T23N, R16E, M.D.B.&M.

The lower east ditch diverts from the creek at the junction of the East Channel and the east side slough and supplies supplementary water to a portion of the area served by the upper ditch.

A total area of about 220.0 acres of meadow is irrigated from the diversion on the M. B. Humphrey Ranch.

No measurements of ditch capacities or of the amount of water diverted were made in 1936.

Diversion 57 comprises those of the M. B. Humphrey West Side Ditches from the East Channel of Last Chance Creek in the SE¼ NE¼ and NW¼ SE¼ Section 27, T23N, R16E, M.D.B.&M.

The creek channel at the upper point described above is small and subject to overflow during the higher stages of the creek. The overflow water collects in the main East Channel of the creek below the flooded area and in a series of sloughs which constitute the Middle Creek. During the lower flows in the creek, the water is turned into the Middle Creek sloughs by means of dams maintained by M. B. Humphrey in the main East Channel. The upper dam diverts the water into a ditch about one-eighth mile in length where it spills into a branch slough of the Middle Creek. Dams and spreading works are maintained in the slough wherever needed on the M. B. Hunphrey Ranch to spread the water.

Two small concrete dams are used to divert water into two lower conduits, which are used to provide water for the area lying between the Middle Creek and the East Creek.

The water diverted by all the dams and ditches under Diversion 57 is collected by the branch sloughs of the Middle Creek heading on the M. B. Humphrey Ranch.

A collecting ditch has been constructed on the Adelina Ramelli Ranch between the North Branch of the Creek and the Middle Creek to intercept the flow in several of the sloughs heading as described above which drain into the North Creek channel. The collecting ditch conveys the water to the Middle Creek channel which is tributary to the East Creek channel. The collecting ditch is owned and operated by Adelina Ramelli and is used primarily to irrigate the portion of her East Creek lands on that creek. When water is not being used thereon, it is spilled into the Middle Creek as described above.

Water from the East Creek channel can also be spilled into the Middle Creek from the Ramelli Vinton Dam when the west ditch from the dam is not is use on the Adelina Ramelli Ranch.

A cross slough between the East Creek and the Middle Creek just below the old highway also conveys water into the Middle Creek at times of moderate to flood flows. A rock dam is maintained on the Adelina Ramelli Ranch in the cross slough to assist in backing water over the area irrigated by Diversion 59.

A total area of 480.8 acres of meadow and alfalfa is irrigated from Diversion 57 and the Middle Creek on the following ranches:

Owner		Normal Maximum Irrigated Acreage
M. B. Humphrey		248.4
Frank V. Dotta		20.0
Adelina Ramelli		25.0
Alessio Ramelli		166.4
Edmond J. Goble		21.0
	Total	480.8

No measurements of ditch capacities or of amounts of water diverted were made in 1936.

Diversion 58 is that of the Ramelli Vinton Ditches from both sides of the East Channel of Last Chance Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 34, T23N, R16E, M.D.B.&M.

A concrete dam with horizontal flashboards is used to divert water into the conduits which consist of earth ditches about three-eighths mile in length.

A total area of 65.8 acres of meadow is irrigated from the ditches on the Adelina Ramelli Ranch. Water may be turned from the west side ditch into the Middle Creek when the ditch is not in use on the Ramelli Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

The record kept of the amount of water passing the state highway from May 6 to June 20, 1936 has been tabulated as Table 53.

There is an old dam in the creek channel a short distance below Diversion 58 which has in the past been used to irrigate a portion of the area now irrigated by Diversion 58. The dam was in poor shape in 1936 and was not used.

Diversion 59 comprises those of the Ramelli Railroad Dam Ditches from both sides of the East Channel of Last Chance Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 33, T23N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of earth ditches about one-fourth mile in length. A portion of the water diverted by the north ditch is collected by a cross ditch in the meadow which supplies the lower portion of the area irrigated from

the diversion.

A total area of 111.4 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Alessio Ramelli	84.4
Adelina Ramelli	27.0
Total	111.4

The area described as irrigated by Adelina Ramelli is irrigated principally with back water from the dam.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 60 comprises those of the Ramelli Lower Dam Ditches from both sides of the East Channel of Last Chance Creek in the SW¼ SW¼ Section 33, T23N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of earth ditches about one-fourth mile in length.

A total area of 104.6 acres of meadow, grain and pasture is irrigated from the ditch on the following ranches:

Owner	Maximum Acreage Normally Irrigated
Alessio Ramelli	89.6
Adelina Ramelli	15.0
Total	104.6

No measurements of capacities or of amount of water diverted were made in 1936.

Diversion 61 is that of the Solari Upper East Channel Ditch from the south side of the East Channel of Last Chance Creek in the NE¼ NE¼ Section 5, T22N, R16E, M.D.B.&M.

A rubble masonry dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length.

A total area of 136.9 acres of meadow is irrigated on the south side of the creek from the Ditch in conjunction with Diversion 63 on the Annetta Solari Ranch.

The maximum capacity of the ditch was measured as 9.00 cubic feet per second.

Diversion 62 is that of the Solari Middle East Channel Ditch from the north side of the East channel of Last Chance Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 5, T22N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of a shallow slough from which the water is spread by means of board and sod dams. About three-eighths mile below the head of the slough, the conduit picks up waste water from Diversion 37. The area below the place where water is received from Diversion 37 has been listed as irrigated from the North Channel.

A total area of 51.2 acres of meadow is irrigated from Diversion 62 in conjunction with Diversion 63 on the Annetta Solari Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 63 comprises those of the Solari Lower East Channel Ditches from both sides of the East Channel of Last Chance Creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 5, T22N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of earth ditches. The south side ditch is about three-eighths mile in length and supplies water to a portion of the area described under Diversion 61. The north side ditch is small and short and supplies water

to a portion of the area described under Diversion 62. All of the land receiving water from Diversion 63 is owned by Annetta Solari.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 64 comprises those of the Laffranchini Upper East Channel Ditches from both sides of the East Channel of Last Chance Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 6, T22N, R16E, M.D.B.&M.

A concrete dam and bridge foundation structure with horizontal flashboards is used to divert water into the conduits which consists of earth ditches. The east ditch known as the Corral Ditch is about three-fourths mile in length. It is used in conjunction with Diversion 65 to irrigate the meadow land lying east of the creek. The west ditch is about one-fourth mile in length to where it connects with a slough which parallels the creek for about three-fourths mile. The slough is shallow and is used as a ditch to irrigate the land through which it flows. Near the lower end of the channel a short ditch is again used to convey the water onto the higher ground.

A total area of 286.9 acres of meadow is irrigated from Diversion 64 in conjunction with Diversion 65 on the C. D. Laffranchini Ranch.

The maximum capacity of the corral ditch was measured as 2.00 cubic feet per second and that of the west side ditch was measured as 1.00 cubic foot per second.

No record was made of the amount of water diverted by the ditches in 1936.

Table 54 is a tabulation of the amount of water available in the combined South and East Channels of the creek above the Laffranchini lane for the period May 6 to June 18, 1936.

Diversion 65 is that of the Laffranchini Middle East Channel Ditch from the east side of the East Channel of Last Chance Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$

Section 6, T22N, R16E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length.

The ditch is used in conjunction with Diversion 64 to irrigate 286.9 acres of meadow on the C. D. Laffranchini Ranch. Approximately 15.0 acres of meadow on the Jennie F. Huntley Ranch are dependent upon waste water from Diversion 65 for irrigation.

No measurements of capacity or of amount of water diverted were made in 1936.

Diversion 66 is that of the Laffranchini East Channel Division from the East Channel of Last Chance Creek above the channel control dams in the NE¼ NW¼ Section 7, T22N, R16E, M.D.B.&M.

Concrete dams are maintained in the heads of the two channels to divert water into the head of the conduit between the two channels. The conduit consists of an earth ditch about one-fourth mile in length. The ditch is used to irrigate approximately 53.0 acres of meadow lying between the two channels of the creek on the C. D. Laffranchini Ranch. Waste water from the area is collected by a ditch on the Jennie F. Huntley Ranch and is used thereon to supplement the water diverted from Diversion 71. No measurements of capacity or of amount of water diverted were made in 1936.

Diversion 67 is that of the Dicen Division from both sides of the north branch of the East Channel of Last Chance Creek in the NW¼ SE¼ Section 12, T22N, R15E, M.D.B.&M.

A wooden check structure is maintained in the main channel of the creek to divert water into the Dicen Ditch and Dicen Channel. The ditch is about one mile in length with a lateral about one-half mile below the head which conveys water to the east of the ditch.

The Dicen Channel takes a southwesterly course from the division for a distance of about four miles to where it enters the irrigated area served by Smithneck Creek. The uppermost lateral from the channel takes out about two hundred feet below the head on the M. B. Humphrey Ranch. Low dams are maintained lower down the channel on the same ranch to supplement the water from the ditch.

Two wooden dams are constructed in the Dicen Channel on the

Josephine Roberti Ranch, three old wooden dams in the M. B. Humphrey pasture and one dam on the A. E. Dotta Ranch to divert water for use on the Edna F. Dotta Ranch.

Water is diverted from the north side of the creek at Diversion 67 at times of ample flow for use as a supplementary supply for a portion of the Jennie F. Huntley Ranch which is customarily irrigated from Diversion 39.

A total area of 634.3 acres of meadow and pasture is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
M. B. Humphrey	564.2
Josephine Roberti	57.7
Edna F. Dotta	12.4
Total	634.3

No measurements of capacity or of amount of water diverted were made in 1936.

Diversion 68 comprises those of the Roberti Upper Ditches from both sides of the North Branch of the East Channel of Last Chance Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 12, T22N, R15E, M.D.B.&M.

A wooden dam is used to divert water into the south conduit which consists of an earth ditch about one mile in length. The upper south lateral from the ditch is used to irrigate a portion of the area described under Diversion 67 on the Josephine Roberti Ranch whenever the water from Diversion 67 becomes inadequate.

A short distance below the dam a ditch from the north side of the creek is used to spill excess water into the area irrigated from the north channel of the creek.

A total area of 254.0 acres of meadow and grain is irrigated from the diversion in conjunction with Diversion 69 on the Josephine Roberti Ranch. An area of 60.3 acres of meadow on the Jennie F. Huntley Ranch is also irrigated from the diversion through the spill ditch to the north.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 69 comprises those of the Roberti Lower Ditches from both sides of the North Branch of the East Channel of Last Chance Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 11, T22N, R15E, M.D.B.&M.

A wooden dam with horizontal flashboards is used to divert water into the conduits which except for one ditch about three-eighths mile in length consist of short earth ditches leading directly onto the irrigated land.

The ditches are used in conjunction with Diversion 68 to divert supplementary water for a portion of the area listed thereunder.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 70 is that of the Roberti Lower Channel from the North Branch of the East Channel of Last Chance Creek in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 11, T22N, R15 E, M.D.B.&M.

The channel follows a general westerly course after leaving the Roberti Ranch. The water spreads over certain areas where the channel is shallow and finally finds its way into Last Chance Lake. Last Chance Lake covers an area of approximately 214.7 acres with a maximum depth of about five feet. The lake is filled in the spring and kept full as long as possible. It ordinarily provides stockwater during most of the summer months and as it recedes provides pasturage around its edges. The lake

when completely filled spills around a low levee built across the lower edge of the basin and irrigates an indeterminate amount of sagebrush pasture land lying between the lake and the Middle Fork of Feather River.

A total area of 268.8 acres of pasture land is flooded from Diversion 70 on the following ranches above the outlet of the lake:

Owner	Normal Maximum Irrigated Acreage
Josephine Roberti	11.0
M. B. Humphrey	54.1
J. L. Humphrey	16.4
Amelia D. Ramelli	135.8
Louisa Scolari, et al	51.5
Total	268.8

Diversion 71 is that of the Huntley Upper East Channel from both sides of Morris Slough from the East Channel of Last Chance Creek in the NE¼ SW¼ Section 7, T22N, R16E, M.D.B.&M.

A board dam is used to divert water into the ditches, the easterly ditch being about one-eighth mile in length to where it is picked up in a shallow slough. The west ditch is about three-eighths mile in length.

The ditches pick up waste water from Diversions 65 and 66 and in conjunction with Diversion 72 are used to irrigate 227.4 acres of meadow on the Jennie F. Huntley Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 72 is that of the Huntley Lower East Channel Ditch from both sides of Morris slough from the East Channel of Last Chance Creek in the NE¼ SW¼ Section 7, T22N, R16E, M.D.B.&M.

A board dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length.

The ditch is used in conjunction with Diversion 71 to irrigate 227.4 acres of meadow on the Jennie F. Huntley Ranch. Waste water from the Huntley Ranch is used to irrigate 50.0 acres of meadow on the M. B. Humphrey Ranch.

Diversion 73 is that of the Dicen Dam in the East Branch of the East Channel of Last Chance Creek known as Morris Slough below the Huntley Ranch in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 18, T22N, R16E, M.D.B.&M.

A wooden dam is maintained in the main or easterly channel of the creek which when closed forces the water into the westerly channel. The dam is owned and operated by M. B. Humphrey who manipulates the dam to irrigate pasture along the slough bottoms through which the channels pass.

Both the easterly and westerly channels convey water into the Smithneck Creek area on the B. E. and R. E. Giudici Ranch. The east channel flows in a southwesterly direction until it enters the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 26, T22N, R15E, M.D.B.&M. A dam at this point is manipulated to throw the water either to the north through a small slough or to let it pass on down the channel. During times of ample water a second dam about one-eighth mile below the first is used to force water south through a ditch about three-eighths mile in length to supplement Smithneck Creek water at Diversion 98.

The westerly channel also follows a southwesterly direction to the south edge of the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 23, T22N, R15E, M.D.B.&M. A ditch has been constructed down the borrow pit of the county road which is controlled by a loose rock dam in the head of the ditch. The dam is

manipulated to allow water to flow about one-half mile down the road where it is spilled into another slough from which it is spread for irrigation of sagebrush. Overflow from the ditch irrigates a narrow strip along the road.

A total area of 204.3 acres of meadow and pasture is irrigated from the diversion on the B. E. and R. E. Giudici Ranch. Of this area approximately 63.0 acres is sagebrush pasture.

Water in excess of the requirements of the acreage described above is commingled with Smithneck Creek Water and its use is hereinafter discussed under Smithneck Creek.

No record of the amount of water available for Diversion 73 was kept in 1936.

Diversion 74 is that of the Parker Ditch from the north side of Staverville Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 17, T21N, R16E, M.D.B.&M.

A gravel dam is used to divert water into the conduit which is an earth ditch about one and one-half miles in length.

The ditch was used only for stock watering purposes in 1936 on the J. S. Rees and John Caccini Ranches.

Diversion 75 comprises those of the Caccini Ditches from the south side of Staverville Creek in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 17, and the north side in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 18, T21N, R16E, M.D.B.&M.

A gravel dam is used to divert water, at the location first described above, into the conduit which consists of an earth ditch about three-fourths mile in length on the south side of the creek. A wooden dam is used at the second location described above to divert water into conduits on both sides of the creek. The south ditch delivers water to most of the area served by the first described ditch. The north ditch is

about three-eighths mile in length and is used to irrigate the area north of the creek channel.

The upper ditch was the only conduit used in 1936.

A total area of 67.9 acres of grain and alfalfa is irrigated from the ditches on the John Caccini Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 76 is that of the Lower Staverville Channel in the SW¼ SE¼ Section 7, T21N, R16E, M.D.B.&M.

Board and rock dams are used to divert water into conduits in the SE¼ NW¼ Section 7, T21N, R16E, M.D.B.&M and the SE¼ SW¼ and NE¼ SW¼ Section 1, T21N, R15E, M.D.B.&M. The conduits are short earth ditches used to irrigate a total area of 49.5 acres of alfalfa, pasture and meadow on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Leon Dotta	22.0
Raffaele Dotta	27.5
Total	49.5

No water was used during the period of investigation in 1936.

Diversion 77 comprises those of the Mountain Ranch West Side Ditches from the west side of Smithneck Creek in the SE¼ NW¼ Section 33, ~~NW¼ NW¼~~ Section 32 and the SW¼ SE¼ Section 29, T21N, R16E, M.D.B.&M.
NE NE

At the location first described above a timber dam is used to divert water into the conduit which consists of a wooden flume about one-half mile in length followed by about one-half mile of earth ditch and laterals. The flume has in the past been used to operate a small power plant located at the upper edge of the irrigated land. The power plant

has been dismantled for a number of years and the ditch is now used only for irrigation purposes.

The ditch at the second location described above irrigates a large portion of the area served by the power ditch. The dam was washed out several years ago and the land has recently all been irrigated from the Power Ditch.

The ditch at the third location described above receives water from a board and sod dam in the main channel of the creek. The ditch is about three-eighths mile in length and furnishes stock water at the ranch house corrals as well as supplementing the water from the upper ditch.

A total area of 51.3 acres of meadow is irrigated from the two ditches on the west side of the creek on the C. D. Terwilliger Ranch.

The maximum capacity of the upper ditch was measured as 3.20 cubic feet per second and of the lower ditch 1.00 cubic foot per second. The normal irrigating heads were measured as 1.20 cubic feet per second and 0.80 cubic foot per second, respectively.

A record was kept of the amount of water diverted by the upper ditch and has been tabulated in Table 55. No record was kept for the lower ditch.

Table 56 is a tabulation of the combined consumption of water on Smithneck and Bear Valley Creeks above Loyalton between May 9 and September 30, 1936.

<u>Diversion 77-A</u> comprises those of the Trosi Mountain Ranch Ditches from both sides of Smithneck Creek in the S½ NW¼ and SW¼ NE¼ Section 25, T20N, R16E, M.D.B.&M.

Rock and sand dams are used to divert water into the conduits which consist of earth ditches of varying lengths.

A total area of 73.0 acres of meadow is irrigated from the ditches on the E. J. Trosi and Dolly Conradt Ranch.

The combined capacity of the ditches is large.

Diversion 78 comprises those of the Mountain Ranch East Side Ditches from the east side of Smithneck Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$, SW$\frac{1}{4}$ SE$\frac{1}{4}$ and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 29, T21N, R16E, M.D.B.&M.

Log and loose rock dams are used to divert water into four earth ditches on the east side of the main channel of the creek. Two of the ditches divert from a branch channel which divides from the main creek in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 32, T21N, R16E, M.D.B.&M.

The ditches are used to irrigate a total area of 19.0 acres of meadow on the C. D. Terwilliger Ranch.

The combined capacities of the four ditches was estimated to be about 2.00 cubic feet per second.

Diversion 79 is that of the Lombardi West Ditch from the west side of Smithneck Creek in the SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 29, T21N, R16E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch which branches into two laterals a few feet below the head. The laterals are about one-fourth mile in length.

A total area of 32.4 acres of meadow is irrigated from the ditch on the Mary C. Laffranchini Ranch.

The maximum capacity of the ditch was measured as 1.90 cubic feet per second and the normal irrigating head as 0.80 cubic foot per second.

The amount of water consumed by irrigation between May 9 and September 30, 1936, on Smithneck and Bear Valley Creeks above Loyalton has been tabulated in Table 56.

Diversion 80 comprises those of the Lombardi East Ditches from the east side of Smithneck Creek in the SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 29, T21N, R16E, M.D.B.&M.

A wooden dam is used to divert water into the upper conduit which consists of an earth ditch about one-fourth mile in length. A similar dam is used to divert water into a lower ditch for use on a small garden.

The ditches are used to irrigate about 9.0 acres of meadow and garden on the Mary C. Laffranchini Ranch.

The maximum capacity of the upper ditch was measured as 1.00 cubic foot per second and the normal irrigating head is 0.60 cubic foot per second.

The lower ditch has a large capacity but returns most of the water to the creek.

Diversion 81 is that of the Upper Concrete Dam Ditch from the east side of Smithneck Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 29, T21N, R16E, M.D.B.&M.

A concrete dam with horizontal flashboards is used to divert water into the conduit which is regulated by a metal gate operated by a screw stem and wheel. The conduit is an earth ditch about one and one-half miles in length to its lower end where it joins the ditch from Diversion 87 as described hereinafter.

The ditch is used in conjunction with Diversion 82 to irrigate 94.1 acres of meadow and alfalfa east of the county road and to irrigate 8.0 acres of the same crops on the west side of the road. The ownership of the land is as follows:

Owner	Normal Maximum Irrigated Acreage
Plumas Logging and Transportation Co.	97.1
Mary C. Laffranchini	5.0
Total	102.1

The maximum capacity of the ditch was measured as 2.60 cubic feet per second and the normal irrigation head is 2.00 cubic feet per second.

No record was made of the amount of water diverted by the ditch in 1936.

Stock water is required in the ditch at all times for use east of the county road on the C. P. and L. S. Lombardi property.

Diversion 82 comprises those of the Middle East Ditches from the east side of Smithneck Creek in the NW¼ NW¼ Section 29, NE¼ NE¼ Section 30 and SE¼ SE¼ Section 19, T21N, R16E, M.D.B.&M.

Board and loose rock dams are used to divert water into the heads of the three conduits listed under Diversion 82.

The uppermost ditch is about three-fourths mile in length with one lateral crossing the county road near its head where it is used in conjunction with Diversion 81 as described heretofore. The lower end of the ditch crosses the road onto the California Lands Inc. property. The middle ditch is about three-eighths mile in length and the lower ditch about one-eighth mile.

A total area of 89.8 acres of meadow and alfalfa is irrigated by Diversion 82 on the following ranches in addition to the area served with supplementary water as described under Diversion 81:

Owner	Maximum Acreage Normally Irrigated
Plumas Logging and Transportation Co.	55.7
California Lands, Inc.	34.1
Total	89.8

The maximum capacity of the combined ditches under Diversion 82 was measured as 4.50 cubic feet per second.

No record was kept of the amount of water diverted by the ditches in 1936. Table 56 is a tabulation of the consumption of water from Smithneck and Bear Valley Creeks above Loyalton for the period shown.

Diversion 83 is that of the Turner Channel Ditch from the west side of Smithneck Creek in the NW¼ NW¼ Section 29, T21N, R16E, M.D.B.&M.

A board and rock dam is used to divert water into the conduit which consists of a short earth ditch joining the Smithneck Creek and Bear Valley Creek channels. The ditch is used to irrigate 5.9 acres of meadow and grain on the Plumas Logging and Transportation Co. Ranch and to spill water from Smithneck Creek into Bear Valley Creek to supplement the natural flow therein available for Diversion 86.

Table 57 has been prepared to show the flow in Bear Valley Creek below the spill from Diversion 83. The sudden increase shown on July 10 was due to water from Diversion 83. Prior to this date no water was brought into the channel from Diversion 83.

Diversions 84 and 85 are those of the Turner South and Turner North Ditches from both sides of Bear Valley Creek in the SW¼ SW¼, NE¼ SW¼, NW¼ NW¼ Section 32, SW¼ SW¼ Section 29, and SE¼ NE¼ Section 30, T21N, R16E, M.D.B.&M.

A series of seven board and rock dams is maintained in the creek channel to divert water into a total of eight conduits. The conduits,

except for the two upper ditches which are about one-half mile in length, are relatively short and serve small areas near the creek.

The entire irrigated area drains directly back into the creek through swales and sloughs and the water is rediverted several times between the upper and lower ditches.

A total area of 154.7 acres of meadow and alfalfa is irrigated from the diversions on the Mary C. Laffranchini Ranch.

Waste water from Diversion 77 and spring water from Diversion 252 is used on parts of the area to supplement the natural flow of the creek.

The combined capacities of the ditches is large.

The discharge of Bear Valley Creek above all diversion has been tabulated in Table 13. The discharge below the irrigated land on the Laffranchini Ranch has been tabulated in Table 57. The flow shown on Table 57 after July 8 is largely due to water from Smithneck Creek as described under Diversion 83.

Diversion 86 is that of the Lewis Brothers West Ditch from the west side of Bear Valley Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 19, T21N, R16E, M.D.B.&M.

A board and sod dam is used to divert water into the conduit which consists of a wooden flume about 500 feet in length followed by about one-half mile of earth ditch.

At the lower end of the flume section the ditch is connected with the spring pond hereinafter described as Diversion 253 to permit the water from the ditch to enter the pond when the pond is low. When the pond is full the waste therefrom supplements the flow in the ditch.

As described under Diversion 83, water is turned into Bear Valley Creek from Smithneck Creek whenever there is inadequate water available at Diversion 86 to fill the irrigation and pond requirements therefrom.

A total area of 33.0 acres of alfalfa and meadow is irrigated

from Diversion 86 on the following ranches:

Owner		Normal Maximum Irrigated Acreage
Plumas Logging and Transportation Co.		6.0
J. S. Rees		27.0
	Total	33.0

The maximum capacity of the ditch was measured as 1.60 cubic feet per second. The normal irrigating head was 1.40 cubic feet per second. Table 57 is a tabulation of the amount of water in Bear Valley Creek above Diversion 86.

Diversion 87 comprises those of the Lewis Bros. East Ditches from the east side of Smithneck Creek in the SW¼ NE¼ Section 19, T21, R16E, M.D.B.&M.

A timber dam is maintained in the main creek channel to force water through a shal ɔw side channel to the east. Two small dams are used in the side channel to divert water into the conduits which consist of two earth ditches. The upper ditch divides into two laterals about one-eighth mile below its head. About one-fourth mile below the division the easterly lateral is joined by the lower end of the ditch from Diversion 81. The combined ditch continues for about one-half mile further and then spills into a dry wash which returns any surplus to the creek. The westerly lateral is about one and one-fourth miles in length to where it spills into a reservoir in the NE¼ NW¼ Section 18, T21N, R16E, M.D.B.&M. The amount of water allowed to pass through to the reservoir and the season of use therein has been determined by an agreement.

The lower ditch is about three-eighths mile in length.

A total area of 408.5 acres of meadow, grain and alfalfa are

irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
J. S. Rees	182.2
First National Bank of Nevada	111.2
Clover Valley Lumber Co.	115.1
Total	408.5

All of the Clover Valley Lumber Co. property under Diversion 87 is at present utilized for industrial purposes.

The maximum capacity of the upper ditch was measured as 3.00 cubic feet per second in 1936 but evidently can carry about twice that amount when cleaned. The lower ditch has a maximum capacity of 2.00 cubic feet per second. No measurements of normal irrigating head were made.

Stock water was required in both laterals of the upper ditch in 1936.

Diversion 88 is that of the Cobb Ditch from the west side of Smithneck Creek in the NE¼ NW¼ Section 19, T21N, R16E, M.D.B.&M.

A concrete dam with horizontal flashboards is used to divert water into the conduit which consists of an earth ditch about one-half mile in length.

A total area of 69.0 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Clover Valley Lumber Co.	65.6
J. S. Rees	3.4
Total	69.0

All except 22.0 acres of the Clover Valley Lumber Co. property under Diversion 88 is now utilized for industrial purposes.

The maximum capacity of the ditch was measured as 1.50 cubic feet per second and the normal irrigating head as 1.30 cubic feet per second.

Diversion 89 is that of the Mill Pond Dam in the NE¼ SE¼ Section 13, T21N, R15E, M.D.B.&M.

An earth embankment has been constructed across the bottom land of the creek to create a pond of about 15.0 acres surface area to be used as a log pond by the Clover Valley Lumber Company. The creek flows directly into the pond and is released through the embankment by a concrete outlet structure with horizontal flashboards. The pond is filled early in the spring during the period of freshet flow in the creek and is then maintained full by manipulating the flashboards as the stream falls.

During the dry weather season in 1936 the pond was kept full by the flow from a small spring and artesian wells near the upper edge of the pond. Very little of the natural flow of the creek reached the pond after July 1st.

The flow of Smithneck Creek below the log pond during the period from April 24 to September 30, 1936 has been tabulated in Table 14.

Table 56 is a tabulation of the daily consumption of water on Smithneck Creek and Bear Valley Creek above Loyalton.

Diversion 90 is that of the Division Dams Ditch from between the East Branch and the West Branch of Smithneck Creek in the NE¼ NW¼ Section 13, T21N, R15E, M.D.B.&M.

Concrete dams with horizontal flashboards are maintained in the two branches of the creek to act as a division structure and to divert water into an earth ditch which takes out between the branches. The ditch divides into two laterals about two hundred feet below its head.

The laterals follow along the upper boundary of the Dory property for about one-eighth mile in both directions. One lateral is flumed across the East Branch of the creek and the other across the West Branch.

A total area of 19.0 acres of meadow and alfalfa is irrigated from the ditch on the Maxim Dory Ranch.

The ditch was estimated to have a normal capacity of 0.60 cubic feet per second.

Diversion 91 comprises those of the Dory East Channel Ditches from both sides of the East Branch of Smithneck Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ and SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 12, T21N, R15E, M.D.B.&M.

Timber dams of headgate type are used to divert water into the conduits which consist of short earth ditches. A supporting dam is maintained in the head of a cross channel just above the lower ditch to prevent water from spilling from the East Branch to the West Branch.

A total area of 41.4 acres of meadow is irrigated from the ditches on the Maxim Dory Ranch.

The ditches have a combined capacity of approximately 3.00 cubic feet per second.

Diversion 92 comprises those of the Giudici East Channel Ditches from both sides of the East Branch of Smithneck Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 12, T21N, R15E, M.D.B.&M.

Board and sod dams are used in the creek at several points to spill water over the banks of the channel to irrigate the land lying along the creek and to supply water for rediversion from a slough lying east of the creek channel. The slough is about three-fourths mile in length and is tapped by two re-diversion ditches one three-fourths mile in length and the other one and one-fourths miles in length.

A total area of 291.1 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
A., F. and S. Giudici	83.3
Leon Dotta	87.8
Raffaele Dotta	120.0
Total	291.1

The ditches from Diversion 92 are small but the dams are occasionally put in high enough to crowd a large amount of water over the banks.

The amount of water available in the East Branch of the creek for the period from May 4 to June 15, 1936 has been tabulated in Table 60.

Diversion 93 comprises those of the Keyes East Ditches from both sides of the East Branch of Smithneck Creek in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 2 and NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 11, T21N, R15E, M.D.B.&M.

The original creek channel below Diversion 93 has been allowed to fill with debris and a canalized channel has been dug for about one-fourth mile below the diversion to carry the creek water. A wooden dam is used at the head of the canalized channel to divert water into a ditch on each side of the creek.

A total area of 66.0 acres of meadow is irrigated from Diversion 93 on the May Dory and Cora V. Keyes Ranch.

No measurements of capacities or of amounts of water diverted were made for the diversion in 1936.

Diversion 94 of the R. Dotta West Ditch from the west side of the East Branch of Smithneck Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 2, T21N, R15E, M.D.B.&M., is owned jointly by Raffaele Dotta, Albert Dotta and Ceasar Dotta.

A timber dam is used to divert water into the conduit which consists of an earth ditch about one-eighth mile in length.

Diversion 94 is used to irrigate an area of 40.0 acres of meadow on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Raffaele Dotta	20.0
Albert C. and Ceasar Dotta	20.0
Total	40.0

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 95 is that of the R. Dotta Main Dam from the East Branch of Smithneck Creek in the SE¼ NE¼ Section 2, T21N, R15E, M.D.B.&M.

A timber dam is used to divert water into the east conduit which consists of an earth ditch about one-half mile in length and to back water into a branch channel to the west which heads a short distance above the dams.

The diversion is used to irrigate a total area of 238.0 acres of meadow on the following ranches:

Owner	Maximum Acreage Normally Irrigated
Raffaele Dotta	98.0
Albert C. and Ceasar Dotta	140.0
Total	238.0

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 96 is that of the A. and C. Dotta East Ditch from the east side of the East Branch of Smithneck Creek in the SE¼ SE¼ Section 35, T22N, R15E, M.D.B.&M.

A board dam is used to divert water into the conduit which consists of an earth ditch about one-eighth mile in length. The ditch conveys water into a dry drainage channel along the edge of the irrigated land from which it is rediverted and a portion thereof used north of the ranch buildings.

A total area of 299.8 acres of meadow is irrigated from Diversion 96 in conjunction with Diversion 97 on the Albert C. and Ceasar Dotta Ranch.

No measurements of capacity or of amount of water diverted were made in 1936.

Diversion 97 comprises those of the A. & C. Dotta East Dam Ditches from both sides of the East Branch of Smithneck Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 35, T22N, R15E, M.D.B.&M.

Two board dams are maintained in the channel of the creek to back water over the flat land above them and to divert water into two small ditches.

A total area of 299.8 acres of meadow is irrigated from Diversion 97 in conjunction with Diversion 96 on the Albert C. and Ceasar Dotta Ranch.

Diversion 98 comprises those of the Giudici East Dam Ditches from both sides of the East Branch of Smithneck Creek in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 26, T22N, R15E, M.D.B.&M.

A timber dam is used to divert water into the conduits which consist of a short earth ditch on the west side and a one-half mile long earth ditch on the east side. The east side ditch can be used to convey water into the Last Chance Creek channel below Diversion 73 to supplement water from that source whenever there is a surplus of water available

from Smithneck Creek. As described under Diversion 73, there is also a tap on the Last Chance Creek channel to convey surplus water from that source to Diversion 98 when the Smithneck Creek water is low. Under normal conditions, however, the Smithneck Creek water is only used in about the first one-half mile of the east side ditch from Diversion 98. Water from Last Chance Creek is backed into the lower one-eighth mile of the ditch to irrigate the area along that portion of the ditch.

An area of 100.3 acres of meadow is normally irrigated from Diversion 98 on the B. E. & R. E. Giudici Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 99 is that of the Junction Dam from both sides of the combined East Branch of Smithneck Creek and the East Branch (Morris Slough) of the East Channel of Last Chance Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 26, T22N, R15E, M.D.B.&M.

A timber dam is used to pond the water over the flat land above the dam and to divert water into a short earth ditch which carries water around to the east of the dam. The two creek channels named above converge above Diversion 99 and permit the use of water from either one or both of the two streams.

A total area of 40.0 acres of meadow is irrigated from the diversion on the B. E. and R. E. Giudici Ranch.

Diversion 100 comprises those of the Giudici Middle Channel Ditches from both sides of the Middle Branch of Smithneck Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 12, NE$\frac{1}{4}$ SE$\frac{1}{4}$ and SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 11, T21N, R15E, M.D.B.&M.

Four timber dams and check structures are maintained in the channel of the creek to divert water into two short earth ditches and to

spill water over the banks of the creek.

The diversion is used to irrigate 62.0 acres of meadow on the A., F., and S. Giudici Ranch and in conjunction with Diversion 101 to irrigate 94.0 acres of meadow on the May Dory and Cora V. Keyes Ranch.

The amount of water available in the Middle Branch of the creek above Diversion 100 has been tabulated in Table 59, for the period May 4 to June 15, 1936.

Diversion 101 comprises those of the Keyes Middle Ditches from both sides of the Middle Branch of Smithneck Creek in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 11, T21N, R15E, M.D.B.&M.

Board dams are used to divert water into the conduits which consist of short earth ditches from both sides of the creek.

A total area of 94.0 acres of meadow is irrigated from the ditches in conjunction with Diversion 100 on the May Dory and Cora V. Keyes Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 102 comprises those of the Upper Dotta Genasci Ditches from both sides of the Middle Branch of Smithneck Creek in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 2, T21N, R15E, M.D.B.&M.

Two timber dams are maintained in the creek channel to divert water into the conduits which consist of earth ditches about one-fourth mile in length.

The ditches are used to irrigate 213.9 acres of meadow on the Perpetua Genasci Ranch and in conjunction with Diversion 103 to irrigate approximately 275.4 acres of meadow on the Albert C. and C. Dotta Ranch.

The water from the east side ditches is collected in a group of sloughs and re-diverted onto the Albert C. and C. Dotta Ranch for use thereon in conjunction with Diversions 94, 95 and 103 on the area referred to above. Sufficient water is customarily diverted through the ditches to supply the amount necessary for re-diversion.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 103 comprises those of the Lower Dotta Genasci Ditches from both sides of the Middle Branch of Smithneck Creek in the SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 2, T21N, R15E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of earth ditches. The west side ditch is about three-fourths mile in length. The east side ditch divides about 300 feet below its head into two laterals each about one-fourth mile in length. The westerly lateral is used to irrigate the Genasci land lying east of the creek and the easterly lateral is used to deliver water into a series of slough and ditches on the Albert C. & C. Dotta Ranch. A second dam about one-quarter mile below the concrete dam supplements the water for the lower portion of the area.

An area of 175.3 acres of meadow is irrigated from Diversion 103 on the Perpetua Genasci Ranch and in conjunction with Diversions 102 and 104 an additional area of 275.4 acres of meadow is irrigated on the Albert C. and Ceasar Dotta Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 104 comprises those of the A. & C. Dotta Middle Ditches from both sides of the Middle Branch of Smithneck Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ and NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 34, T22N, R15E, M.D.B.&M.

Timber dams are used to divert water into the conduits which consist of earth ditches of varying length. The two upper east side ditches are about one-half mile in length and are used to convey water into the same slough as Diversion 103.

The other ditches are short and serve areas near the creek channel.

A total area of 275.4 acres of meadow is irrigated from Diversion 104 in conjunction with Diversions 102 and 103 on the Albert C. and Ceasar Dotta Ranch.

No measurements of capacities or of amounts of water diverted were made in 1936.

Diversion 105 is that of the A. & C. Dotta Home Ranch Ditch from the west side of the Middle Branch of Smithneck Creek in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 34, T22N, R15E, M.D.B.&M.

A dam is maintained in the main creek channel and in a side slough which serves as a ditch. The dams are manipulated to divert sufficient water into the side slough to irrigate 70.1 acres of meadow on the Albert C. and Ceasar Dotta Ranch.

No measurements were made of the diversion in 1936.

Diversion 106 is that of the Lower Middle Channel from both sides of the Middle Branch of Smithneck Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 35 and SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 26, T22N, R15E, M.D.B.&M.

Low board dams are used to spread water over the flat land along the channel and to pond water in the lower area.

An area of 86.4 acres of meadow is irrigated from the diversion on the B. E. and R. E. Giudici Ranches.

Diversion 107 is that of the Last Chance Dam from both sides of

Smithneck Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 27, T22N, R15E, M.D.B.&M., below the junction of the East Branch of Smithneck Creek and Last Chance Creek.

Board dams are maintained in the sloughs which carry the water at this point to back it over the adjoining land and to permit its release through any desired slough.

An area of 85.9 acres of meadow is irrigated from the dams on the Albert C. and Ceasar Dotta Ranch.

Diversion 108 comprises those of the A. E. Dotta East Channel Dams on the East Branch of Smithneck Creek in the SE$\frac{1}{4}$ NW$\frac{1}{4}$, NW$\frac{1}{4}$ NW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 27, T22N, R15E, M.D.B.&M.

Board dams are maintained in the slough channels of the creek to back the water over the adjoining land and force it into the desired sloughs.

A total area of 172.3 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Antone E. Dotta	59.6
Edna F. Dotta	32.7
The Federal Land Bank of Berkeley	42.0
Charles Ede	38.0
Total	172.3

No measurement of the amount of water used was possible.

Diversion 109 is that of the A. E. Dotta Lower from both sides of Smithneck Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 28, T22N, R15E, M.D.B.&M.

A board dam is used to back water over the land adjoining the creek channel and to pond water in the low areas.

An area of 32.0 acres of meadow is irrigated from the diversion

on the Federal Land Bank of Berkeley Ranch.

Diversion 110 comprises those of the Dory West Channel Ditches from the west side of the West Branch of Smithneck Creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 13 and the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 12, T21N, R15E, M.D.B.&M.

A timber dam is used to divert water into two small ditches at the upper dam and a concrete dam to divert water into a shallow slough at the lower dam. Drainage from the upper dam ditches collects in a slough along the south edge of the irrigated land and is re-diverted from the slough about one mile below the point of diversion for use on the Sierra Valley Bank lands.

The shallow slough from the lower dam is tapped at several points by laterals which are used to irrigate the land along the slough. Surplus water and drainage from the lower dam collects in the slough some distance below the head and flows in a westerly direction in the slough channel to the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 10, T21N, R15E, M.D.B.&M., where it is re-diverted for use upon the L. S. Lombardi Ranch.

A total area of 285.0 acres of meadow and alfalfa is irrigated from the ditches and sloughs on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Maxim Dory	46.9
Sierra Valley Bank	58.2
L. S. Lombardi	35.4
Perpetua Genasci	60.0
A. D. Ramelli	84.5
Total	285.0

The two sloughs described above converge a short distance above the Lombardi re-diversion dam and then flow in a northerly

direction for about three-eighths mile along the county road. The slough then divides into two branches. The easterly channel conveys water back into the West Branch of the creek and the westerly channel conveys water onto 144.5 acres of sagebrush pasture on the Perpetua Genasci and A. D. Ramelli Ranches. Additional water which leaves the creek at the Giudici Lane during high water also collects in the slough above the Lombardi re-diversion dam.

The maximum capacity of the ditches at the upper dam on the creek was estimated as 1.50 cubic feet per second and at the lower dam as 2.00 cubic feet per second. The sloughs however will carry large heads when the creek is in flood stage.

The Sierra Valley Bank re-diversion ditch was estimated to have a maximum capacity of 1.50 cubic feet per second and the Lombardi Slough Ditch as having the same.

Table 61 has been prepared to show the amount of water available in the sloughs above the Lombardi re-diversion dam and Table 62 shows the amount of water diverted by the Lombardi Slough Ditch.

No record was kept of the amount of water diverted from the creek by Diversions 90, 91 and 110 except as the difference between Table 14, which give the flows in the creek at Loyalton, and Tables 58, 59 and 60 which give the flows in the three channels of the creek below the Dory Ranch.

Diversion 111 is that of the Genasci Upper Field from both sides of the West Branch of Smithneck Creek in the NW¼ SE¼ and SE¼ NW¼ Section 11, T21N, R15E, M.D.B.&M.

A concrete dam located as first described above diverts water into earth ditches on both sides of the creek. The west side ditch has two branches each about three-eighths mile in length which deliver water

to the land lying west of the creek channel. Drainage from the ditch supplements water diverted on the west side of the creek at Diversion 112. The east side ditch divides into two branches about one-eighth mile below its head. The westerly lateral is used in place of or in conjunction with the lower dam from Diversion 111. The easterly lateral conveys water along the east boundary of the ranch.

The lower dam located as secondly described above is used to divert water for use upon a portion of the area served by the upper dam as described above.

Diversion 111 is used in conjunction with Diversion 112 to irrigate a total area of 325.1 acres of meadow on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Attilio R. and Louis Genasci	298.6
Perpetua Genasci	26.5
Total	325.1

No measurements of maximum capacity or of normal irrigating head were made in 1936.

Table 58 has been prepared to show the amount of water available in the West Branch of the creek above Diversions 111 and 112 for the period May 4 to July 10, 1936. All of the water was diverted except for a few days at the first of the period and a few days the first of June.

Diversion 112 comprises those of the Genasci Lower Field Ditches from both sides of the West Branch of Smithneck Creek in the SW¼ NW¼ Section 11, T21N, R15E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of earth ditches. The west ditch is short and leads directly onto the land irrigated therefrom. The east ditch divides into two branches

about one-eighth mile below the head. The westerly branch, about three-eighths mile in length, conveys water along the edge of the irrigated land. The easterly branch follows a ridge for about one-fourth mile into the meadow.

The diversion is used in conjunction with Diversion 111 to irrigate 325.1 acres of meadow and sagebrush pasture on the Attilio R. and Louis Genasci and Perpetua Genasci Ranches as described under Diversion 111. 14.0 acres of the irrigated area is sagebrush pasture.

No measurements of capacity were made in 1936.

Drainage water from Diversions 111 and 112 collects in a slough in the Genasci field and returns to the West Branch of the creek in the NW¼ SE¼ Section 3, T21N, R15E, M.D.B.&M.

Diversion 113 is that of the Ramelli Flood Ditch from the west side of the West Branch of Smithneck Creek in the NE¼ NW¼ Section 3, T21N, R15E, M.D.B.&M.

A dam is maintained in the head of the ditch to regulate the flow into the conduit which is only used during periods of surplus water. The ditch is about one-half mile in length and is used to irrigate approximately 75.0 acres of meadow and sagebrush pasture on the A. D. Ramelli Ranch which can not be irrigated under Diversion 114.

No measurements of capacity or of amount of water diverted were made in 1936.

Diversion 114 is that of the Ramelli Division Ditch from the west side of the West Branch of Smithneck Creek in the SE¼ SW¼ and SW¼ SE¼ Section 34, T22N, R15E, M.D.B.&M.

A concrete division dam is maintained at the location first described above to divide the water equally between the creek channel and

the Ramelli Division Ditch. The ditch located as secondly described above takes out of the creek below the division and is only used during periods of surplus water.

The Ramelli Division Ditch is a combination of ditches and sloughs about one mile in length which is used to irrigate a total area of 717.3 acres of meadow on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Amelia D. Ramelli	522.1
The Federal Land Bank of Berkeley	101.0
M. B. Humphrey	94.2
Total	717.3

The capacity of the ditch is large and will carry ample water to irrigate the area described. An area comprising 61.0 acres of the M. B. Humphrey Ranch described above is sagebrush pasture land.

Diversion 115 comprises those of the A. & C. Dotta West Channel Ditches from both sides of the West Branch of Smithneck Creek in the SW¼ NE¼, SE¼ NW¼ and NE¼ NW¼ Section 34, T22N, R15E, M.D.B.&M.

Four timber dams are used to divert water into the ditches and to pond the water in low areas above the dams. The west side ditches are used to irrigate the areas adjacent to the stream on that side of the creek. The east side ditches are used to irrigate the area adjacent to the creek on the east side and to convey water to a slough lying close to the ranch buildings in the NW¼ NE¼ Section 34, T22N, R15E, M.D.B.&M. The slough is used to irrigate the area south of the acreage served by Diversion 107.

The lower dam diverts water onto the A. E. Dotta Ranch.

A total area of 303.2 acres of meadow is irrigated from the

ditches on the following ranches:

Owner	Maximum Acreage Normally Irrigated
Albert C. and Ceasar Dotta	254.5
Antone E. Dotta	48.7
Total	303.2

Diversion 116 is that of the A. E. Dotta Upper West Channel from both sides of the combined Middle and West Branches of Smithneck Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 27, T22N, R15E, M.D.B.&M.

A board dam is maintained in the main slough channel to pond the water into the low areas above the dam and to divert the water into other sloughs and ditches heading above the dam.

An area of 30.0 acres of meadow is irrigated from the diversion on the Antone E. Dotta Ranch.

Diversion 117 is that of the A. E. Dotta Lower West Channel from both sides of the West Branch of Smithneck Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 28, T22N, R15E, M.D.B.&M.

A board dam is used to pond the water in the low areas and sloughs and to divert it into the ditches and side sloughs above the dam.

An area of 97.2 acres of meadow is irrigated from the diversion on the Federal Land Bank of Berkeley Ranch.

Diversion 118 is that of Ede Lake from Smithneck Creek below the junction of the three branches of the creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 28, T22N, R15E, M.D.B.&M.

A natural basin ponds the water over an area of approximately 140.0 acres at moderate stages. The maximum depth of water under normal conditions is about three feet. The lake empties by evaporation after the run-off from the creek fails.

A total area of 491.1 acres of meadow is irrigated in the lake bed and adjoining the lake by Diversion 118 on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Charles Ede	121.4
M. B. Humphrey	355.0
A. E. Ede	14.7
Total	491.1

A portion of the area on the M. B. Humphrey Ranch receives a limited amount of water from Diversion 114.

Diversion 119 is that of the Ede Lake cut from the north side of Ede Lake on Smithneck Creek in the NW¼ NW¼ Section 28, T22N, R15E, M.D.B.&M.

A ditch has been cut through a ridge about 200 feet wide separating two arms of Ede Lake to provide a more direct and lower outlet toward the north from the lake. The natural outlet from the north arm of the lake carries the water on to the Albert E. Ede and Edna F. Dotta Ranches.

A total area of 333.1 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Albert E. Ede	115.9
Edna F. Dotta	180.7
Charles Ede	36.5
Total	333.1

Approximately 100.0 acres of the land on the Edna F. Dotta Ranch also receives either back water or direct diversion from Diversion 238 from the Middle Fork of Feather River.

Diversion 120 is that of the Antelope Upper Diversion from the old channel of Antelope Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 21, T21N, R15E, M.D.B.&M.

A board dam is used in the head of the east channel to force the low flow of the creek into the west or old channel of the creek. Water is spread over the irrigated land near the head of the channel by means of dams in the old channel.

An area of 13.0 acres of meadow is irrigated from the diversion on the Caesar P. Lombardi Ranch.

No record of water supply was made on Antelope Creek in 1936.

Diversion 121 comprises those of the Antelope West Channel Ditches from the east side of the west channel of Antelope Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 21, T21N, R15E, M.D.B.&M.

A timber dam is maintained in the creek channel to divert water into the conduits which consist of two earth ditches each about one-half mile in length. The ditches are used to irrigate the land lying between the creek channels. Water is allowed to pass the dam occasionally for re-diversion lower down the channel.

An area of 124.1 acres of meadow, grain and alfalfa is irrigated from the ditches on the Caesar P. Lombardi Ranch.

Diversion 122 is that of the Antelope East Channel diversion from the east side of Antelope Creek and the lower channel of Antelope Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 16, T21N, R15E, M.D.B.&M., and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 21, T21N, R14E, M.D.B.&M.

A concrete dam is used to back water into a shallow slough which irrigates and subirrigates the land lying east of the east channel of the creek.

An area of 94.6 acres of alfalfa and grain is irrigated from the diversion on the Caesar P. Lombardi Ranch. Overflow and flood water from the diversion is used to irrigate 80.0 acres of sagebrush pasture on the Perpetua Genasci Ranch and 100.0 acres of sagebrush pasture on the Julius Filippini Ranch.

Diversion 123 is that of the Blinman Spring Channel from Blinman Springs in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 16 and the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 17, T20N, R15E, M.D.B.&M.

A canalized spring channel is maintained from the lower point of diversion to hold the water away from the channel of Lemon Creek so that it may be used on high ground east of the creek. The ditch from Diversion 124 joins the Blinman Spring Channel in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 17, T20N, R15E, M.D.B.&M.

Diversion 123 is used to irrigate 11.0 acres of meadow pasture and in conjunction with Diversions 124, 125 and 126 to irrigate 288.2 acres of grain, alfalfa and meadow on the Anna B. Miller Ranch.

Table 16 is a tabulation of the estimated flow from Blinman Spring Channel in 1936.

Table 17 is a tabulation of the combined flow from Blinman Spring Channel and from Lemon Creek above diversion in 1936.

Diversion 124 comprises those of the Lemon East Ditches from the east side of Lemon Creek above the ranch buildings in the SE$\frac{1}{4}$ SE$\frac{1}{4}$, NE$\frac{1}{4}$ SE$\frac{1}{4}$, NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 17, T20N, R15E, M.D.B.&M.

The upper conduit is an old high water channel which connects with the Blinman Spring Channel. The channel is used to supplement the water available from the Blinman Spring Channel.

The middle conduit is an earth ditch about one-fourth mile in length to where it enters the irrigated land. The conduit thereafter

consists of a series of swales in which dams are maintained to re-divert the water where needed.

The lower conduit is a small earth about one-eighth mile in length. The ditch passes through the ranch corrals and is used to irrigate the land lying near them.

Diversion 124 is used in conjunction with Diversions 123, 125 and 126 to irrigate 288.2 acres of grain, alfalfa and meadow on the Anna B. Miller Ranch.

No measurements of capacity or of amounts of water diverted were made in 1936.

Table 15 is a tabulation of the discharge of Lemon Creek above diversion.

Diversion 125 comprises those of the Lemon West Ditches from the west side of Lemon Creek above the ranch buildings in the SE$\frac{1}{4}$ SE$\frac{1}{4}$, NW$\frac{1}{4}$ SE$\frac{1}{4}$ and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 17, T20N, R15E, M.D.B.&M.

Board and rock dams are used to divert water into the conduits which consist of earth ditches. The upper ditch is about three-fourths mile in length and serves as an outside ditch along the edge of the irrigated land. The other ditches lead directly onto the irrigated land.

Diversion 125 is used in conjunction with Diversions 123, 124 and 126 to irrigate 288.2 acres of grain, alfalfa and meadow on the Anna B. Miller Ranch.

No measurements of capacity or of amounts of water diverted were made in 1936.

Table 15 is a tabulation of the discharge of Lemon Creek above all diversion.

Diversion 126 comprises those of the Lemon Lower Ditches from

both sides of Lemon Creek in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 17, and SE$\frac{1}{4}$ NE$\frac{1}{4}$ and NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 18, T20N, R15E, M.D.B.&M.

A number of timber gates are maintained in the creek channel to divert the water into the conduits, which all consist of short earth ditches.

Diversion 126 is used in conjunction with Diversions 123, 124 and 125 to irrigate 288.2 acres of grain, alfalfa and meadow on the Anna B. Miller Ranch, and in conjunction with Diversions 129 and 136 from Webber Creek to irrigate 215.8 acres of meadow, grain and alfalfa on the F. A. Alpers Ranch.

Table 15 is a tabulation of the discharge of Lemon Creek above all diversion.

Diversion 127 comprises those of the Treasure Spring Ditch and Camp Springs from the north side of the Treasure Spring Channel in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ and SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 30, T20N, R15E, M.D.B.&M.

A series of springs occurs along the hillside above the irrigated land. The ditch heads from below the southerly, and largest spring, and intercepts the flow of the other small springs along its course. The water in the ditch may either be used for irrigation or spilled into the channel of Cold Creek. A pipe line from one of the springs provides domestic water for the house and for several cabins built near the north end of the meadow.

An area of 6.0 acres of meadow is irrigated from the springs on the S. C. Linebaugh property.

The discharge from the springs was estimated as 1.00 cubic foot per second.

Diversion 128 comprises those of the Johnson Cold Creek Ditches

from the south side of Cold Creek in the S½ of Lot 2, Section 19, T20N, R15E, M.D.B.&M.

The upper dam which was first constructed at its present location in 1936 consists of a wooden cross log and vertical flashboards. The conduit consists of an earth ditch about one-fourth mile in length. The ditch formerly diverted water about 300 feet upstream from its present location in Lot 1 of Section 30, T20N, R15E, M.D.B.&M.

The lower conduit diverts from the creek where the channel is choked with debris and runs parallel with the upper ditch for about one-eighth mile. A branch of the lower ditch is flumed across to the north side of the creek to irrigate the area lying between Cold Creek and Webber Creek above their junction.

The areas served by the two ditches are divided by shallow washes which collect the waste from the upper portion of the area and makes it available for re-diversion on the lower portion.

A total area of 38.0 acres of meadow and sagebrush pasture is irrigated from the two ditches on the Dell L. Johnson Ranch. Waste water from the area is collected in the conduit from Diversion 129.

The maximum capacity of the upper conduit was measured as 0.90 cubic foot per second and of the lower 0.50 cubic foot per second. The normal irrigating heads were 0.50 and 0.30 cubic foot per second, respectively.

The amounts of water diverted by the ditches in 1936 have been tabulated in Table 6 4.

Diversion 128A is that of the Cook Ditch from the north side of Webber Creek in the SE¼ SE¼ Section 24, T20N, R14E, M.D.B.&M.

A rock dam is used to divert water into the conduit which consists of a short flume section from the dam across the road and about

one-fourth mile of earth ditch.

An area of 12.5 acres of meadow pasture is irrigated from the ditch on the Dell L. Johnson Ranch.

The ditch has not been used for several years.

Diversion 129 is that of the Miller-Dellera Ditch from the south side of Webber Creek in the NE¼ SE¼ Section 24, T20N, R14E, M.D.B.&M.

A horizontal log and loose rock dam is used in the main channel of the creek to divert water through a short cut into an old side channel. About one-eighth mile below the diversion dam and a short distance above the junction of the side channel and the main creek, a timber dam is used re-divert the water into the ditch proper. The re-diversion dam is used as a regulating structure as the ditch may be dried or filled by manipulating the flashboards.

A division structure is maintained in the ditch about five-eighths mile below the head which purports to divide the water equally between two laterals. Each lateral is about three-fourths mile in length.

The west or Dellera lateral runs for its entire length through the meadow irrigated from it. The east or Miller lateral skirts the irrigated land for almost its full length. The east lateral collects drainage water from Diversion 258 a short distance below the division structure.

A total area of 311.0 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Kelso N. Dellera	181.6
Anna B. Miller	129.4
Total	311.0

The maximum capacity of the ditch as measured below the point

or re-diversion was 7.00 cubic feet per second and the normal irrigating head as 5.00 cubic feet per second.

The amount of water diverted by the ditch in 1936 from May 1 to September 30 has been tabulated in Table 65.

The ditch was decreed a water right of 3.70 cubic feet per second from Webber Creek in the case of A. S. Nichols Co. vs. W. A. Macy, et al., in the Sierra County Superior Court.

Diversion 130 is that of the Randolph Ditch from the west side of Webber Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 24, T20N, R14E, M.D.B.&M.

A log and rock overflow dam diverts water into the conduit which consists of an earth ditch about three-fourths mile in length. A timber headgate is maintained in the head of the ditch to regulate the flow. A spillway channel is provided at the lower end of the ditch to spill excess water into Perry Creek.

The ditch is used primarily for domestic purposes in accordance with the provisions of the decree in the case of A. S. Nichols Co. vs. W. A. Macy, et al., case number 1267 in the Sierra County Superior Court.

The ditch is owned by Dell L. Johnson who according to the provisions of the court decree must maintain the ditch in such order as to permit the Randolph water users to divert 0.50 cubic foot per second of water through the ditch. The parties who use water from the ditch are required by the decree to compensate Mrs. Johnson for the service.

An area of approximately 12.8 acres of garden, orchard and yard is irrigated from the ditch on land which has no other access to the creek. The Anna B. Miller and W. A. Diltz properties also have rights in the ditch but have been listed hereinafter under Diversions 145 and 146.

The maximum capacity of the ditch was estimated as 2.60 cubic feet per second.

The amount of water diverted by the ditch from May 1 to September 30, 1936 has been tabulated in Table 66.

Diversion 131 is that of the Johnson Webber Creek Ditch from the east side of Webber Creek in the NE¼ SE¼ Section 24, T20N, R14E, M.D.B.&M.

A timber dam with horizontal flashboards is used to divert water into the conduit which consists of an earth ditch about one-fourth mile in length. The ditch divides into two laterals about three hundred feet below the head. The east lateral is flumed across the Miller-Dellera Ditch for use on the east side of that conduit.

An area of approximately 125.4 acres of alfalfa and meadow is irrigated from the ditch in conjunction with Diversion 132 on the Dell L. Johnson Ranch.

The maximum capacity of the ditch was measured as 3.00 cubic feet per second and the normal irrigating head is 2.00 cubic feet per second.

The amount of water diverted by the ditch for the period May 8 to August 22, 1936 has been tabulated in Table 67.

The ditch was decreed a water right of 2.00 cubic feet per second from Webber Creek in the case of A. S. Nichols Co. vs. W. A. Macy, et al., case number 1267, in the Sierra County Superior Court.

Diversion 132 is that of the Johnson Town Creek Ditch from the east side of Town Creek in the NE¼ NE¼ Section 24, T20N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length. A lateral takes off from the main ditch about 200 feet below the head which carries water through a 600-foot flume for use for domestic purposes at the ranch

house and for the irrigation of a garden and a small area of meadow near the house.

A total area of about 125.4 acres of garden and meadow is irrigated from the ditch in conjunction with Diversion 131 on the Dell L. Johnson Ranch. Drainage from the Dell L. Johnson Ranch is picked up and used on the James W. Morgan Ranch to irrigate 5.4 acres of meadow.

The maximum capacity of the ditch was estimated as 1.50 cubic feet per second and the normal irrigating head as 1.00 cubic foot per second.

The amount of water estimated to have been diverted in 1936 by Diversions 132 and 133 has been tabulated in Table 68.

Diversion 133 comprises those of the Morgan, Johnson and Adams Ditches from both sides of Town Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ and SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 13, T20N, R14E, M.D.B.&M.

The upper conduit is a short earth ditch which irrigates a small area near the creek and then wastes into the middle ditch. An old dam in poor repair has been used in the past for diverting the water, but in 1936, water was only used then the creek was high enough to run into the intake without the assistance of the dam.

The middle conduit heading at the Old Albee Dam on the James W. Morgan Ranch diverts water through a pipe control in the east abutment of the dam. The ditch is about one-half mile in length to the lower-most user above whom a spillway is maintained to turn excess water back to the creek. Waste water from the land irrigated by the ditch collects in two sloughs which cross the county road onto the C. D. Johnson property where it is re-diverted for use thereon. A small ditch on the west side of the creek delivers water to a small area on the Morgan Ranch.

The lower conduit heads at the north edge of the Morgan Ranch where a timber dam is used to divert water into the ditch. The conduit consists of about 400 feet of wooden flume and metal pipe across the creek and through the barnyard on the Lower Johnson Ranch. An earth ditch is then run about 300 feet west to the highway and then east along the highway in another flume for about 200 feet where it is taken under the road through an inverted syphon onto the Anna B. Miller Ranch. Land is irrigated on both sides of the road from the ditch. The lower dam was not used in 1936.

A total area of 98.5 acres of alfalfa, yard and meadow is irrigated from the diversion on the following ranches on the east side of the highway:

Owner	Normal Maximum Irrigated Acreage
Dell L. Johnson	60.7
James W. Morgan	11.5
H. G. Adams	2.9
Fred Dolley	9.0
S. C. Linebaugh	1.3
Thomas E. Miller	.9
C. D. Johnson	*12.2
Total	98.5

An additional area lying west of the State highway on the Anna B. Miller Ranch has a decreed right to the use of 0.47 cubic foot per second of water from Town Creek from the lower dam for four out of every seven days. The area irrigated by the Town Creek water can be almost entirely irrigated from Diversion 147 from Perry Creek and was irrigated

*Waste water only.

from that source in 1936. The area irrigated by Fred Dolley, S. C. Linebaugh and T. E. Miller was not irrigated in 1936, except by the use of a small pump on the Linebaugh property.

The maximum capacity of the middle east ditch was measured as 3.00 cubic feet per second and the normal irrigating head as 2.00 cubic feet per second. The middle west ditch has a maximum capacity of 0.10 cubic foot per second and a normal irrigating head of the same amount.

The amount of water diverted by Diversion 133 for the period from May 10 to September 30, 1936 has been tabulated in Table 68. Stock and domestic water is required in the middle east ditch throughout the year.

Diversion 134 comprises those of the Town Pumps from the west side of Town Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ and NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 13, T20N, R14E, M.D.B.&M.

The pumping station located as first described above has been used intermittently without a permanent installation. The pump has always been small and a very small amount of water has been used.

The pump located as secondly described above is a permanent installation with a two-inch inlet pipe and a one and one-half inch outlet pipe. The outlet pipe is connected with a pipe system used for irrigating the yard.

The two pumping stations are used to irrigate 1.2 acres of yard on two pieces of property owned by C. D. Johnson in the Town of Sierraville.

The upper pump was used very little and the lower pump none at all in 1936.

The John A. McIntosh property, consisting of 1.0 acre of yard, had water used thereon a number of years ago and installation of a pump

near the lower Johnson Pump is planned.

Diversion 135 is that of the Wilson Dam from the west side of Town Creek in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 13, T20N, R14E, M.D.B.&M.

A timber dam is used to divert water into two small ditches on the west side of the creek.

The ditches are used to irrigate 4.4 acres of meadow and yard on the Grace L. Wilson property.

Excess water diverted by Diversion 135 is intercepted by the west ditch from Diversion 136 and is used in conjunction with water diverted by that diversion, or is backed up the ditch and made to run into the creek.

Diversion 136 comprises those of the Bony Upper Dam Ditches from both sides of Town Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 12, T20N, R14 E, M.D.B.&M.

A concrete dam is used to divert water into the conduits which consist of earth ditches except for a short flume at the head of each. The flow into the heads of the ditches is controlled by a short section of pipe through the concrete wall of the dam structure. A metal gate is used to adjust the pipe opening to the size desired.

The west ditch is about one-fourth mile in length and is used to irrigate land lying west of the creek.

The east ditch is about one-half mile in length and is used to irrigate the upper portion of the Bony Ranch lying east of the creek. The owners of the Bony Ranch have permitted the ditch to be used occasionally to irrigate high ground near the county road on the F. A. Alpers Ranch. An area of 215.8 acres of irrigated land on the Alpers Ranch is dependent upon drainage from Diversion 129 and surplus flow from

Diversion 136 after the flow of Lemon Creek fails on or about June 1.

A total area of 164.2 acres of meadow is irrigated from the diversion on the ranch of Francesca G. Bony, et al.

The maximum capacity of the west side ditch was measured as 2.00 cubic feet per second and of the east side ditch as 5.00 cubic feet per second. The normal irrigating heads were measured as 1.80 and 3.50 cubic feet per second, respectively.

The amount of water diverted by the two ditches for the period from May 12 to July 15, 1936 has been tabulated in Table 69.

Diversion 137 is that of the Bony Division Dam from the west side of Town Creek in the S½ Lot 2 of SW¼ Section 7, T20N, R15E, M.D.B.&M.

A wooden dam is maintained in the main creek channel to force water through a short five-foot wide flume section at the head of the west branch of Town Creek. A short flume section one and one-half feet in width leads from the same dam into an earth ditch used to irrigate land between the two channels of the two channels of the creek.

A second wooden dam is maintained a short distance above the Division dam in the same forty acre tract to back water up to operate a hydraulic ram which furnished water for the yard and for watering troughs at the ranch buildings.

The west branch of the creek is tapped by seven laterals along its course before joining the East Branch of Perry Creek in the SE¼ NW¼ Section 1, T20N, R14E, M.D.B.&M. A timber dam in the SW¼ NE¼ Section 1, either permits any excess or drainage water from both channels to flow directly into Town Creek or if closed forces the water through another channel from which it may be re-diverted and used again before reaching the creek in the NW¼ NE¼ Section 35, T21N, R14E, M.D.B.&M.

Diversion 137 is used in conjunction with Diversion 141 to irrigate 359.0 acres of grain and meadow on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Francesca G. Bony, et al	123.0
Anna B. Miller	236.0
Total	359.0

A small area west of the creek on the F. A. Alpers Ranch listed under Diversion 140 also is dependent upon Diversion 137.

No measurement of capacity or of amount of water diverted from Diversion 137 was made in 1936.

Diversion 138 is that of the Bony Middle Concrete Dam from the east side of Town Creek in the N½ Lot 2 of SW¼ Section 7, T20N, R15E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch leading directly onto the irrigated land.

The ditch is used in conjunction with Diversion 139 to irrigate a total area of 101.5 acres of meadow on the ranch of Francesca G. Bony, et al.

Any excess water diverted and drainage on the east side of the creek from Diversions 136, 138 and 139 collect in a slough near the east boundary of the Bony Ranch, which flows into the lower Lemon Creek Channel on the Alpers Ranch where the water is used to supplement the supply from Diversions 126 and 129.

The maximum capacity of the channel was measured as 14.2 cubic feet per second and the normal irrigating head as 6.00 cubic feet per second.

No record was made of the amount of water diverted in 1936.

Diversion 139 is that of the Bony Lower Dam from both sides of Town Creek in the S½ Lot 2 of NW¼ and NE¼ NW¼ Section 7, T20N, R15E, M.D.B.&M.

A concrete dam is used at the first described location to divert water into short earth ditches on both sides of the creek.

The second dam consists of an old wooden structure which has been partly washed out and has not been used for several years. Nearly all the area may be irrigated from the upper dam.

A total area of 101.5 acres of meadow is irrigated by Diversion 139 in conjunction with Diversion 138 on the ranch of Francesca G. Bony, et al.

Waste water and drainage from Diversion 139 have been discussed under Diversion 138.

The maximum capacity of the ditches from the dam was measured as 5.00 cubic feet per second, although more was forced over the banks by putting the dam in tight. The normal irrigating head was measured as 4.00 cubic feet per second.

No record of the amount of water diverted was made in 1936.

Diversion 140 comprises those of the Alpers Lower Field Ditches from both sides of Town Creek in the N½ Lot 2 of NW¼ Section 7 and S½ Lot 2 of SW¼ Section 6, T20N, R15E, M.D.B.&M.

The dam located as first described above is of concrete construction and is used to divert water into a short earth ditch on the east side of the creek.

The dam located as secondly described above is of timber construction and is used to divert water into an earth ditch on the west side of the creek.

A total area of 173.8 acres of meadow is irrigated from the ditch on the Fred A. Alpers Ranch.

Diversion 141 is that of the Miller Town Creek Ditch from the west side of Town Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 1, T20N, R14E, M.D.B.&M.

A wooden dam is maintained in the head of each of the two channels into which Perry Creek divides at this point. The dams are used to regulate the division of water between the two channels and 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 Diversion 137 to irrigate 236.0 acres of meadow on the Anna B. Miller Ranch.

No measurement of capacity or of amount of water diverted was made in 1936.

Diversion 142 comprises those of the Torri Upper Ditches from the west side of Perry Creek in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ and SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 1, T20N, R14E, M.D.B.&M.

Three log and board dams are used to divert water into four small earth ditches which lead directly onto the irrigated land.

A total area of 80.0 acres of meadow is irrigated from the diversion on the ranch of Giulio Torri, et ux.

No records of capacity or of amounts of water diverted were collected in 1936.

Diversion 143 comprises those of the Torri Lower Ditches from both sides of the East Branch of Town Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$, NE$\frac{1}{4}$ SW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 36, T21N, R14E, M.D.B.&M.

Three dams are used to divert water into the conduits which consist of four earth ditches. The upper dam of timber construction diverts water into a ditch about one-fourth mile in length which conveys water into a canalized drainage channel lying between the two branches of the

creek described under Diversion 141. The water is re-diverted from the drainage channel and from the connection ditch for use on the land adjoining the conduits.

The middle dam is also of timber construction and diverts water from both sides of the East Branch of the creek into ditches about one-fourth mile in length.

The lower dam consists of a cross log with vertical flashboards. The dam is used to divert water into a short ditch on the east side of the creek.

A total area of 235.9 acres of meadow is irrigated from the diversion on the ranch of Giulio Torri, et ux.

No measurements of capacity or of the amount of water diverted were made in 1936.

Diversion 144 is that of the Henderson Town Creek Ditch from both sides of Town Creek in the SE¼ NE¼ Section 35, T21N, R14E, M.D.B.&M.

The dams used for irrigating the area under Diversion 144 have been washed out and no water was used in 1936.

An area of 44.5 acres of meadow is irrigated from the diversion on the George A. Henderson Ranch.

Diversion 145 comprises those of the Webber and Diltz and Johnson Ditches from both sides of Perry Creek in the SW¼ NE¼ and NW¼ NE¼ Section 24, T20N, R14E, M.D.B.&M.

Three timber dams with horizontal flashboards are used to divert the water into the conduits.

The upper dam supplies short ditches on both sides of the creek and the middle dam a short ditch on the east side of the creek which is flumed across the creek below the State Highway.

The lower dam supplies water to a ditch about one-fourth mile in length on the east side of the creek. The ditch runs through the ranch corrals on the Johnson Ranch and may then be used for irrigation or spilled into Town Creek.

A total area of 33.3 acres of garden, orchard, alfalfa, grain and meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Mary Ella Webber	7.0
W. A. Diltz	8.0
Dell L. Johnson	18.3
Total	33.3

The maximum capacity of the combined upper and middle dam ditches was measured as 2.00 cubic feet per second and the normal irrigating head as the same.

The maximum capacity of the lower dam ditch was measured as 1.50 cubic feet per second and the normal irrigation head as 0.80 cubic foot per second.

The amount of water diverted by the ditches for the period from May 10 to September 30, 1936 has been tabulated in Table 70.

Stock water was diverted at the lower dam from July 1 to September 1, 1936.

Diversion 146 is that of the Miller Upper Ditch from the west side of Perry Creek in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 13, T20N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch with two branches. The westerly branch is about one mile in length and serves as a highline ditch along the outer edge of the irrigated land. The east branch of the ditch follows along

the creek bank and divides about one-eighth mile below its head into two laterals one of which is flumed across the creek for use on the east side of the channel.

About one-half mile below the head of the westerly branch a small reservoir has been constructed below the ditch into which any part or all of the flow may be turned. Overflow from the reservoir is returned to the ditch for irrigation use below. The reservoir is connected with the ranch buildings by about one-half mile of pipe line which supplies domestic and stock water for use thereat throughout the year.

A total area of 236.9 acres of alfalfa, grain, meadow and pasture is irrigated from the ditch on the Anna B. Miller Ranch. Of this area 81.4 acres is pasture, which may also receive water from Diversion 155.

The maximum capacity of the ditch was measured as 3.20 cubic feet per second and the normal irrigating head is 2.50 cubic feet per second.

The amount of water diverted by the ditch during the period from May 1 to September 30, 1936 has been tabulated in Table 71.

Diversion 147 comprises those of the Miller Schoolhouse Ditches on both sides of Perry Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 13, T20N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduits which consist of earth ditches on both sides of the creek. The east side ditch is short and is used in conjunction with Diversion 133 as described under that diversion. The west side ditch crosses the creek on a wooden flume about one-eighth mile below its head after supplying several laterals on the west side of the creek. The main ditch then continues on the east side of the creek for about one-half mile. The water is then

picked up in a slough and carried another one-half mile to where it is re-diverted for use on land in the SW$\frac{1}{4}$ of Section 7, T20N, R14E, M.D.B.&M.

A total area of 259.0 acres of alfalfa, grain and meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Anna B. Miller	167.4
Francesca G. Bony, et al.	91.6
Total	259.0

A portion of the land listed as irrigated by Diversion 137 on the Anna B. Miller Ranch may also be irrigated by Diversion 147.

The maximum capacity of the west ditch was measured as 3.60 cubic feet per second and of the east ditch as 2.00 cubic feet per second. The normal irrigating heads were measured as 2.50 and 1.50 cubic feet per second, respectively.

The amount of water diverted by the ditches during the period from May 9th to July 16, 1936 has been tabulated in Table 72.

Diversion 148 is that of the Adams Ditch from the west side of Perry Creek in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 12, T20N, R14E, M.D.B.&M.

A wooden dam with horizontal flashboards is used to divert water into the conduit which consists of about 150 feet of steel pipe buried in the ground followed by an earth ditch. About one-half mile below the head of the ditch a division structure is maintained which purports to divide the water equally between two laterals.

A total area of 307.8 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
H. G. Adams	157.8
F. E. Humphrey, Jr.	150.0
Total	307.8

Drainage water from the Adams Ranch is used to irrigate 78.0 acres of meadow on the Anna B. Miller Ranch.

The maximum capacity of the ditch was measured as 5.00 cubic feet per second and the normal irrigating head as 4.50 cubic feet per second.

The amount of water diverted by the ditch for the period May 1 to September 30, 1936 has been tabulated in Table 73.

Stock and domestic water is required in the ditch throughout the year.

Diversion 149 is that of the Perry Creek Division from the east side of Perry Creek in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 12, T20N, R14E, M.D.B.&M.

The division between the main creek channel and the branch to the east has been badly washed out in recent years and consequently log dams with vertical flashboards have been temporarily installed to force water into the east channel.

The East Branch of the creek is tapped by six laterals along its course before joining the West Branch of Town Creek in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 1, T20N, R14E, M.D.B.&M. Below the junction of the two branch channels the water may be regulated to flow into either of two channels as described under Diversion 137.

A total area of 426.0 acres of meadow is irrigated from Diversion 149 in conjunction with Diversion 152 on the following ranches:

Owner	Normal Maximum Irrigated Acreage
F. E. Humphrey, Jr.	100.0
Anna B. Miller	326.0
Total	426.0

No record was kept of the amount of water diverted in 1936 by the East Branch of Perry Creek.

Diversion 150 comprises those of the Webber Upper Ditches from the east side of Perry Creek in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 12, T20N, R14E, M.D.B.&M.

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

Diversion 150 is used in conjunction with Diversion 151 to irrigate a total area of 142.4 acres of meadow on the F. E. Humphrey, Jr. Ranch.

No measurements of capacity or of amount of water diverted were made in 1936.

Diversion 151 comprises those of the Webber Lower Ditches from both sides of Perry Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 12 and SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 1, T20N, R14E, M.D.B.&M.

Wooden dams are used to divert water into the conduits which consist of short earth ditches.

The upper ditch is used in conjunction with Diversion 148 to irrigate the area listed under that diversion on the F. E. Humphrey Jr. Ranch and to supply stock and domestic water at the ranch buildings.

The lower ditch in used in conjunction with Diversion 150 to irrigate a portion of the area listed under that diversion on the

F. E. Humphrey Jr. Ranch.

No measurements of capacity or of amounts of water diverted were made in 1936.

Diversion 152 comprises those of the Miller Lower Perry Creek Ditches from both sides of Perry Creek in the SW¼ NW¼ Section 1, T20N, R14E, M.D.B.&M.

A wooden dam is 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 Diversion 149 to irrigate 326.0 acres of meadow on the Anna B. Miller Ranch and to supply supplemental water to about 40.0 acres of meadow on the Mounds Ranch of H. G. Adams.

The upper dam at Diversion 152 is ordinarily put in tight early in the season and a large portion of the water in the creek spreads from the dam.

Diversion 153 is that of the West Side Ditch from the west side of Perry Creek in the SW¼ NE¼ Section 35, T21N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length. About one-eighth mile below the head of the ditch a tap about one-half mile in length takes out to the north for use on the Henderson Ranch. At about one-fourth mile below the head of the ditch the conduit intercepts two old channels or swales from the Adams Mounds Ranch. The easterly swale apparently picks up drainage water from both Perry Creek and Hamlin Creek. The westerly swale carries water from Hamlin and Miller Creeks.

A spillway and gate structure has been built in the lower bank of the ditch where it crosses the swale to release water to be used from a

lateral which runs about one mile due north from the spillway and to supply the continuation of the swale below the ditch. The swale runs in a southwesterly direction below the ditch and intercepts the West Side Canal in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 34, T21N, R14E, M.D.B.&M.

The ditch is used to divert water belonging to the Sierra Valley Water Company from Perry Creek into the West Side Canal for use by shareholders in that company whose lands lie along the canal. However, no water was diverted by the ditch for that purpose in 1936 as the ditch was in a poor state of repair.

The ditch is also used to irrigate 62.3 acres of meadow on the George A. Henderson Ranch and in conjunction with Diversions 166, 176 and 203 to irrigate an additional area of 120.0 acres on the same ranch.

Drainage from Diversions 152, 166 and 176 was used in 1936 to irrigate the lands normally irrigated from the ditch.

Diversion 154 comprises those of the Henderson Perry Creek Ditches from both sides of Perry Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 35, T21N, R14E, M.D.B.&M.

Wooden dams with vertical flashboards are used to divert water into the conduits which consist of short earth ditches leading directly onto the irrigated land.

A total area of 50.0 acres of meadow is irrigated from the ditches on the George A. Henderson Ranch.

Diversion 155 is that of the Amodei Ditch from the north side of Webber Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 26, T20N, R14E, M.D.B.&M.

A loose rock dam is used to divert water into the conduit which consists of an earth ditch about one and one-half miles in length to its principal place of use.

A four-foot rectangular weir is maintained in the head of the ditch just below a loose rock spillway back to the creek.

An area of 144.6 acres of alfalfa and meadow is irrigated from the ditch on the John Amodei Ranch. Drainage and flood water from Diversions 155, 259 and 260 are used for irrigation of 200.5 acres of pasture on the Anna B. Miller Ranch and 62.0 acres of pasture on the A. E. Strang Ranch.

The maximum capacity of the ditch was measured as 7.00 cubic feet per second and the normal irrigating head as 2.50 cubic feet per second.

The amount of water diverted by the ditch for the period from May 1 to September 30, 1936 has been tabulated in Table 63.

The water right of the Amodei Ranch was established by the decree in the case of A. S. Nichols vs. W. A. Macy, et al. in the Sierra County Superior Court as 2.50 cubic feet per second from January 1 to May 31 and 1.50 cubic feet per second from June 1 to December 31 of each year.

Diversion 156 comprises those of the Morgan East Channel Ditches from both sides of the east channel of Webber Creek in the SE¼ SE¼ Section 23 and SW¼ SW¼ and NE¼ SW¼ Section 24, T20N, R14E, M.D.B.&M.

Loose rock and board dams are used to divert water into the conduits which consist of short earth ditches all leading directly onto the irrigated land except the uppermost which flows for about one-eighth mile through the timber above the irrigated area.

An area of about 65.0 acres of meadow is irrigated from the ditch on the James W. Morgan Ranch.

The combined maximum capacity of all the ditches under the two

diversions was measured as 3.00 cubic feet per second. The normal irrigating head was about 2.00 cubic feet per second.

No record was kept of the amount of water diverted in 1936.

Diversion 157 is that of the Morgan West Channel Ditch from the south side of the West Channel of Webber Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 24, T20N, R14E, M.D.B.&M.

A loose rock and sod dam is used to divert water into the conduit which is a short ditch leading directly onto the irrigated land.

An area of about 2.7 acres of meadow is irrigated from the ditch on the James W. Morgan Ranch.

The ditch was not used in 1936.

Diversion 158 is that of the H. Dotta Upper South Ditch from the south side of Hamlin Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 22, T20N, R14E, M.D.B.&M.

A loose rock and board dam is used to divert water from a branch channel of the creek into the conduit which consists of an earth ditch about one-half mile in length. When the water supply in the branch channel fails, a supporting ditch from a second branch of the creek is opened to supply the water needed.

The ditch branches about one-eighth mile below its head. The upper branch carries water around the hillside to supplement the supply from Springs under Diversion 261. The lower branch enters the same area lower down the hillside.

A total area of 42.3 acres of meadow is irrigated from the ditch in conjunction with Diversion 261 on the Henry Dotta Ranch.

The maximum capacity of the ditch was measured as 1.50 cubic feet per second and the normal irrigating head is 1.00 cubic foot

per second.

The amount of water diverted by the ditch in 1936 has been tabulated in Table 74.

Diversion 159 is that of the H. Dotta Lower South Ditch from the south side of Hamlin Creek in the NE¼ NE¼ Section 22, T20N, R14E, M.D.B.&M.

A loose rock and brush dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length to where it enters the irrigated land. A rock spillway is maintained about 200 feet below the head of the ditch to regulate the flow in the main conduit. About one-eighth mile below the head of the ditch a domestic water lateral with a capacity of about 0.80 cubic foot per second taps the main ditch. The lateral, about 1000 feet in length, carries water to a headbox from which a pipe line carries water to the ranch house. A small ditch from the lateral is used to irrigate a small area of garden and pasture near the ranch buildings. Excess water is spilled back to the creek.

A total area of 231.9 acres of meadow, yard and garden is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Henry Dotta	164.6
A. E. Strang	67.3
Total	231.9

Of the area irrigated on the A. E. Strang Ranch 25.4 acres were cropped to irrigated pasture.

The maximum capacity of the ditch was measured as 4.20 cubic feet per second and the normal irrigating head is 3.50 cubic feet per

second.

The amount of water diverted by the ditch for the period April 23 to September 30, 1936 has been tabulated in Table 75.

Diversion 160 is that of the H. Dotta Old Power Ditch from the north side of West Hamlin Creek in the SW¼ SE¼ Section 15, T20N, R14E, M.D.B.&M.

A board and gravel dam is used to divert water into the conduit which consists of an earth ditch about one-fourth mile in length. The ditch divides about 300 feet below the head into a high line lateral and a main lateral. The main lateral has at some past time been used to operate a power wheel but at present is only used for irrigation purposes. The excess water from Diversion 160 is picked up by the upper west ditch from Diversion 161 and conveyed in a southwesterly direction along the edge of the irrigated land on the Dotta and Strang Ranches for use along the conduit.

There are two additional small earth ditches from West Hamlin Creek between Diversion 160 and the junction with the main creek which irrigate a few acres along the channel.

An area of about 17.0 acres of meadow is irrigated solely from Diversion 160 and its supplemental ditches from West Hamlin Creek on the Henry Dotta Ranch. The water from Diversion 160 is also used in conjunction with Diversion 161 to irrigate additional land on the Henry Dotta Ranch and also a portion of the A. E. Strang Ranch as described under Diversion 161.

The maximum capacity of the ditch was measured as 2.00 cubic feet per second and the normal irrigating head as 1.50 cubic feet per second.

The amount of water diverted by the ditch in 1936 has been tabulated in Table 76.

The daily discharge of West Hamlin Creek for the period May 1 to September 30, 1936 has been tabulated in Table 23.

Diversion 161 comprises those of the H. Dotta North Channel Ditches from both sides of the North Branch of Hamlin Creek in the SW¼ SE¼ Section 10 and NW¼ NE¼, SW¼ NE¼ and NE¼ SE¼ Section 15, T20N, R14E, M.D.B.&M.

A series of eight board and sod dams is used to divert water into the conduits on both sides of the creek. The upper east side conduit consists of a short earth ditch followed by about one-eighth mile of wooden flume. The ditch and flume are used to convey about 0.80 cubic foot per second of water to the lower end of the flume where a water wheel is operated to generate mechanical power. The waste water from the wheel may either be used for irrigation or returned to the creek.

The upper west side conduit consists of an earth ditch about three-fourths mile in length. About 400 feet below the intake the ditch crosses a swale in which the excess water from Diversion 160 collects. A wooden spillway structure in the lower bank of the ditch is used either to release the water for irrigation down the swale or to force it on along the ditch. The lower one-fourth mile of the ditch is used to irrigate the land described below the A. E. Strang Ranch.

The remaining ditches from Diversion 161 are short and lead directly onto the irrigated land.

A total area of 147.8 acres of meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Henry Dotta	86.2
A. E. Strang	61.6
Total	147.8

The capacities of the ditches are large for the areas served.

No record was kept of the amount of water diverted in 1936.

Diversion 162 comprises those of the H. Dotta South Channel Ditches from both sides of the South Branch of Hamlin Creek and from the south side of Hamlin Creek below the junction of the two branches in the SW¼ SE¼ Section 10, NE¼ NE¼, NW¼ NE¼ and SE¼ NE¼ Section 15, T20N, R14E, M.D.B.&M.

A series of eight board and sod dams is used to divert water into the conduits which all consist of short earth ditches except the upper south conduit. The upper south conduit is an old channel of the creek which is regulated by dams in both the main creek channel and in the head of the old channel. The dams are manipulated to allow the water required for four re-diversion ditches to flow into the old channel.

A total area of 121.7 acres of meadow is irrigated from the ditches on the Henry Dotta Ranch.

The capacities of the ditches are large for the areas served.

No record was made of the amount of water diverted in 1936.

Diversion 163 comprises those of the Strang Upper Ditches from both sides of Hamlin Creek in the SW¼ SE¼ Section 10, T20N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduits which consist of earth ditches. The west ditch is about one-eighth mile in length and is used to convey water from the creek into a slough lying west of the creek from which the water is re-diverted for use along the

slough. The east ditch is about one mile in length. It picks up additional water from a branch channel of the creek about one-eighth mile below its head.

The dam at Diversion 163 was used but little in 1936 as sufficient water was received from Diversions 161 and 162 to supply the requirements under the ditches. The irrigated area is included under Diversion 164.

Diversion 164 comprises those of the Strang Lower Ditches from both sides of Hamlin Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$, SW$\frac{1}{4}$ NE$\frac{1}{4}$, SE$\frac{1}{4}$ NE$\frac{1}{4}$ and NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 10 and SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 3, T20N, R14E, M.D.B.&M.

Five wooden dams are used to divert water into the conduits which consist of three short earth ditches on the west side of the creek and two earth ditches each about three-fourths mile in length on the east side of the creek. A third ditch on the east side about one-eighth mile below the upper ditch combines with the upper ditch about one thousand feet below its head.

A varying amount of waste water and drainage from Diversions 155 and 260 is intercepted by the upper ditch about midway of its course.

Diversion 164 is used in conjunction with Diversion 163 to irrigate 426.7 acres of meadow on the A. E. Strang Ranch.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 165 comprises those of the Martinetti and Miller Ditches from the east side of Hamlin Creek in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 2, T20N, R14E, M.D.B.&M.

A cross log with vertical flashboards is used to divert water into the conduits which consist of an earth ditch about three-fourths mile in length and of a short earth ditch leading directly onto the

irrigated land on the Martinetti Ranch.

A total area of 85.0 acres of meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Delia Martinetti	25.0
Anna B. Miller	60.0
Total	85.0

The area on the Miller Ranch also receives the drainage from Diversion 164.

The dam at Diversion 165 was not put in in 1936 as the area under the ditch was pastured.

Diversion 166 is that of the Miller-Hamlin Ditch from the east side of Miller and Hamlin Creeks below their junction in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 2, T20N, R14E, M.D.B.&M.

The conduit is a partly canalized and partly washed swale into which water flows naturally during higher stages of the creek. During the lower stages a wooden dam is used to force the water into the conduit. The conduit is about three-fourths mile in length to where it is joined by the conduit from Diversion 176. The ditch picks up drainage water from Diversions 164 and 165 along the upper one-half mile of its course. A lateral about one-half mile below the head of the ditch supplies supplemental water to a portion of the area described as irrigated from Diversion 151.

A total area of 100.0 acres of meadow is irrigated from the ditch on the Anna B. Miller Ranch.

No effort was made to spread water from the ditch in 1936.

Diversion 167 is that of the Miller-Strang Ditch from the east side of Miller Creek in the NW¼ SE¼ Section 9, T20N, R14E, M.D.B.&M.

A rock dam is used to divert water into the conduit which consists of an earth ditch about one and one-fourth miles in length to its lower-most place of use. About 500 feet below the head of the ditch is a forebay at the head of a three-inch pipe line. A spillway back to the creek is located at the forebay. The pipe line conveys water to the Strang Ranch building where it is used for domestic purposes and to operate a small power wheel. Water is kept in the ditch as far as the forebay throughout the year.

A total area of 148.4 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
A. E. Strang	95.5
Delia Martinetti	52.9
Total	148.4

The maximum capacity of the ditch was measured as 3.50 cubic feet per second and the normal irrigating head is 3.10 cubic feet per second.

The amount of water diverted by the ditch for the period from April 22 to September 30, 1936 has been tabulated in Table 77.

Diversion 168 is that of the Martinetti Upper East Channel Ditch from the east side of the East Branch of Miller Creek in the SW¼ NE¼ Section 9, T20N, R14E, M.D.B.&M.

A loose rock dam is used to divert water into the head of the conduit which consists of an earth ditch about one-fourth mile in length on the east side of the creek. A metal pipe flume is used just below the head of the ditch to carry a portion of the water across the creek for

use on the west side.

About 500 feet below the head of the ditch on the east side of the creek a wooden pipe lateral takes out to supply water to operate a power wheel at the ranch buildings. Waste water from the wheel returns to the creek.

A total area of 76.8 acres of meadow is irrigated from the ditch on the Delia Martinetti Ranch.

The maximum capacity of the ditch was measured as 1.00 cubic foot per second and the normal irrigating head as the same.

Diversion 169 is that of the Martinetti Middle East Channel Ditch from both sides of the East Branch of Miller Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$, NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 10 and SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 3, T20N, R14E, M.D.B.&M.

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

A total area of 78.3 acres of meadow is irrigated from the ditches on the Delia Martinetti Ranch.

The capacities of the ditches are ample to divert all of the water required.

Diversion 170 comprises those of the Strang and Martinetti Lower Field Ditches from the north side of the East Branch of Miller Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$, NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 3 and NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 2, T20N, R14E, M.D.B.&M.

Wooden dams are used to divert water into the conduits which are short earth ditches.

An area of 94.6 acres of meadow is irrigated from the ditches on the Delia Martinetti Ranch and 15.0 acres on the A. E. Strang Ranch,

The capacities of the ditches are ample to irrigate the area served.

Diversion 171 comprises those of the Martinetti Upper West Channel Ditches from both sides of the West Branch of Miller Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ and NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 9, T20N, R14E, M.D.B.&M.

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

A total area of 70.5 acres is irrigated from the ditches on the Delia Martinetti Ranch.

The capacities of the ditches are ample to irrigate the area served.

Diversion 172 comprises those of the Cavitt Miller Creek Ditches from both sides of Miller Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 4, SW$\frac{1}{4}$ SW$\frac{1}{4}$ and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 3, T20N, R14E, M.D.B.&M.

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

A total area of 199.2 acres of meadow is irrigated from the ditches on the J. H. Cavitt Ranch.

The capacities of the ditches are ample to irrigate the area served.

Diversion 173 comprises those of the Martinetti Middle West Channel Ditches from the east side of Miller Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 3, T20N, R14E, M.D.B.&M.

A board dam is used to divert water into the conduit which consists of an earth ditch leading directly onto the irrigated land.

An area of 45.0 acres of meadow is irrigated from the ditch on the Delia Martinetti Ranch.

The capacity of the ditches is ample to irrigate the area served.

Diversion 174 is that of the Martinetti Lower West Channel below the West Branch of Miller Creek Channel Division in the NW¼ SE¼ Section 3, T20N, R14E, M.D.B.&M.

A wooden dam is used in the lower west channel below the division to regulate the flow in the two channels. A series of five dams and seven ditches is used to spread the water from the channel on the ranches served and to deliver the excess water to the West Side Canal above Diversion 176.

A total area of 109.9 acres of meadow is irrigated from the channel on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Delia Martinetti	15.0
Catherine L. Devine	74.9
B. F. and C. B. Meyers	20.0
Total	109.9

It is the practice when possible to turn all the water reaching Diversion 174 toward Diversion 175. Most of the area below Diversion 174 is swamp, and drainage from the Martinetti Ranch supplies all the water necessary therefor.

The area irrigated from Diversion 174 is flat and the water runs from one ranch to another without the necessity of any particular irrigation system.

Diversion 175 is that of the Miller Creek Mounds Channel from the north side of the West Branch of Miller Creek in the SW¼ NE¼ Section 3,

T20N, R14E, M.D.B.&M.

Two wooden dams are used in the channel to divert water into a ditch on the Church Ranch and into the Mounds Channel. The Mounds Channel runs in a northerly direction for about one mile and then turns to the east on the north side of the mounds. The channel occasionally receives additional water about one-half mile below its head from Diversions 186 and 187 on Turner Creek. A ditch or washout in the east bank of the Mounds Channel where it leaves the Church field is controlled by means of a board and sod dam. Unless the dam is closed a large part of the water in the channel flows into the swampy area south of the mounds and is lost to the area irrigated by Diversion 175.

The amounts of water in the Miller Creek Mounds Channel at the township line for the period from May 1 to August 31, 1936 has been tabulated in Table 39. The discharge as listed in the table would have been larger except that considerable water was wasted through the washout in the Church field as described above.

A total area of 344.2 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Albert B. Church	105.0
Estate of H. A. Turner (Garfield)	42.2
J. M. Binninger, et al.	117.0
Estate of H. A. Turner	80.0
Total	344.2

Diversion 176 is that of the Adams Mounds Ditch from the east side of the combined channel of Miller and Hamlin Creeks at the head of the West Side Canal in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 2, T20N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch about 400 feet in length. The ditch is used to deliver whatever water is needed for the Adams Ranch into an old channel which heads at the lower end of the conduit from Diversion 166. Dams are maintained along the old channel to spread the water as desired.

An area of 120.0 acres of meadow is irrigated from Diversion 176 in conjunction with Diversion 166 on the H. G. Adams Ranch. Of this area, 40.0 acres receive supplementary water from Diversion 152.

The capacity of the ditch is ample to divert the water required.

Diversion 177 comprises those of the Martinetti Spring Brook Pipe Line and Ditch from the east side of Spring Brook in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 9, T20N, R14E, M.D.B.&M.

A wooden tank is used as a headbox at the spring for a two-inch pipe which is used to convey domestic water to the Martinetti ranch house.

A board and sod dam is used to divert water into the lower conduit which consists of an earth ditch about one-eighth mile in length.

An area of 29.4 acres of meadow is irrigated from the ditch and from the spring area on the Delia Martinetti Ranch and an area of 64.0 acres of meadow is irrigated from the ditch in conjunction with Diversion 178 on the J. H. Cavitt Ranch.

Diversion 178 is that of the Cavitt Spring Brook Ditch from the east side of Spring Brook in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 4, T20N, R14E, M.D.B.&M.

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

A total area of 64.0 acres of meadow is irrigated from the ditch supplemented with drainage from Diversions 177 and 262 on the J. H. Cavitt Ranch.

The capacity of the ditch is ample to irrigate the area served

Diversion 179 is that of the Copren Spring Ditch from Copren Spring in the NE¼ SW¼ Section 31, T21N, R14E, M.D.B.&M.

The conduit consists of an earth ditch about three-eighths mile in length to where it enters the irrigated land on the Suzette Copren property. The source of the water is a perennial spring located as described above.

A total area of 12.0 acres of garden and meadow is irrigated from the ditch on the Suzette Copren Ranch. An additional area of 1.2 acres of meadow on the G. J. Knuthson property receives some drainage water from the ditch after it is spread on the Copren property.

The flow of the spring as measured in the ditch at the irrigated land in October 1936 was estimated as 0.40 cubic foot per second.

Diversion 180 is that of the Freeman Ditch from the east side of Turner Creek in the NW¼ SW¼ Section 32, T21N, R14E, M.D.B.&M.

A rock dam in the creek immediately below the mouth of the Copren Canyon diverts water into a short section of corrugated iron pipe. Below the pipe, the conduit consists of about three-fourths mile of earth ditch to where it divides into two laterals at the edge of the irrigated land.

The ditch conveys water over a saddle onto land which drains into Turner Creek north of the mounds.

An area of 117.5 acres of meadow is irrigated from the ditch on the Frank W. Freeman Ranch.

About one-half mile below the head of the ditch a pipe line taps the ditch to supply domestic water to the T. K. Turner property where an area of 0.2 acre of garden and yard is irrigated.

The maximum capacity of the ditch was measured as 1.80 cubic feet per second and the normal irrigating head is 1.50 cubic feet per second.

The amount of water diverted by the ditch for the period May 1 to September 30, 1936 has been tabulated in Table 78.

Diversions 181 and 182 are those of the Turner West and Turner East Ditches from the south side of Turner Creek in the SW¼ SW¼ & SE¼ SW¼, Section 32, T21N, R14E, M.D.B.&M.

The conduits consist of cuts through the creek bank which are opened and closed by rock and sod dams except for the uppermost diversion which consists of an earth ditch about one-half mile in length.

The longer ditch is regulated at its head by a wooden headgate and is used to irrigate the west side of the meadow and to by-pass a portion of the flow of the creek at high stages.

During extreme low flows in the creek an old power penstock heading in the SW¼ SE¼ Section 31, T21N, R14E, M.D.B.&M. is used to by-pass Diversion 180 to provide water for Diversions 181, 182 and 184.

A total area of 78.6 acres of meadow is irrigated from the ditches on the ranch of the Estate of H. A. Turner.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 183 is that of the Turner Canyon Ditch from the south side of Turner Canyon in the SW¼ SW¼ Section 32, T21N, R14E, M.D.B.&M.

A wooden headgate and dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length. The ditch serves as an outside ditch on the west side of the irrigated land.

An area of 25.0 acres of meadow is irrigated from the ditch on

the ranch of the Estate of H. A. Turner.

The capacity of the ditch is ample to irrigate the area served.

The amount of water available in Turner Canyon above Diversion 183 has been tabulated in Table 29.

Diversion 184 is that of the Church Ditch from the east side of Turner Creek in the NW¼ NW¼ Section 4, T20N, R14E, M.D.B.&M.

A wooden headgate is used to regulate the diversion into the conduit which consists of an earth ditch about one mile in length. The ditch follows the edge of the irrigated land throughout its length.

A total area of 88.0 acres of alfalfa, yard and meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Estate of H. A. Turner	21.9
J. H. Cavitt	0.4
Albert B. Church	65.7
Total	88.0

The maximum capacity of the ditch was measured as 1.80 cubic feet per second and the normal irrigating head as 1.20 cubic feet per second.

The amount of water diverted by the ditch for the period from May 8 to July 11, 1936 has been tabulated in Table 79.

Diversion 185 comprises those of the Cavitt Turner Creek Ditches from the east side of Turner Creek in the SE¼ NW¼ and from the west side in the NW¼ SE¼ of Section 4, T20N, R14E, M.D.B.&M.

A concrete dam is used to divert water into the east side conduit which is an earth ditch about one-fourth mile in length.

The ditch is used to irrigate the Cavitt land lying between the

ditch and Turner Creek and to supply stock water at the ranch corrals.

A temporary wooden dam is used to divert water into the west side conduit which is a short earth ditch used to irrigate a portion of the area between Turner Creek and Spring Creek.

A total area of 37.3 acres of meadow is irrigated from the ditches on the J. H. Cavitt Ranch. A portion of the water is picked up in a shallow slough and conveyed onto the Church Ranch to supplement water from Diversion 184.

The capacities of the ditches are ample to irrigate the areas served thereunder.

Diversion 186 comprises those of the Church Upper Turner Creek Meadow Ditches from both sides of Turner Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ and SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 4, and SW$\frac{1}{4}$ NW$\frac{1}{4}$ and NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 3, T20N, R14E, M.D.B.&M.

Timber dams are used to divert water into the conduits which consist of short earth ditches except for the upper south ditch. The upper south ditch is about one-half mile in length and is used to irrigate the higher ground near the Church Mound and to supply water for re-diversion from an old channel that the ditch crosses near its head.

A total area of 141.5 acres of grain and meadow is irrigated from the ditch on the Albert B. Church Ranch.

The capacity of the diversion is large as the dams are put in high enough to crowd a large head of water out onto the land.

Diversion 187 comprises those of the Church Lower Turner Creek Meadow Ditches from both sides of Turner Creek in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 3, T20N, R14E, M.D.B.&M. and in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 33, T21N, R14E, M.D.B.&M.

Two wooden dams are used to divert water into the conduits which consist of earth ditches as described below.

The upper ditch which runs east along the lane to the mounds for 1500 feet and then turns to the north for about one-half mile is tapped by several laterals along its course. A lateral from the main ditch about one-fourth mile below the head of the conduit picks up drainage from Diversion 187 and spills into Diversion 175 as described thereunder.

The middle ditch is about three-eighths mile in length and is used in conjunction with the upper ditch on the east side of the creek.

The lower ditch from the west side of the creek is about three-eighths mile in length and irrigates the land lying west of the creek.

A total area of 243.5 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Albert B. Church	134.1
H. A. Turner Estate, et al. (Garfield)	109.4
Total	243.5

The capacities of the ditches are ample to irrigate the areas served.

Diversion 188 is that of the Freeman Lower Meadow from both sides of Turner Creek in the SW¼ NE¼, SE¼ NE¼ and NE¼ NE¼ Section 33, T21N, R14E, M.D.B.&M.

Wooden dams are used to divert water into the conduits which consist of earth ditches of varying lengths.

A total area of 88.9 acres of meadow is irrigated from the ditches on the Frank W. Freeman Ranch.

The capacities of the ditches are ample to irrigate the area served.

Diversion 189 comprises those of the Clark Turner Creek Meadow Ditches from both sides of Turner Creek in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 28, T21N, R14E, M.D.B.&M.

Wooden dams are used to divert water into the conduits which consist of short earth ditches except for the upper east ditch. The upper east ditch is used to supply water to a cross ditch about one-eighth mile below its head and then continues for another one-eighth mile into the meadow.

A total area of 200.8 acres of meadow is irrigated by the ditches on the Samuel Devine (Fisher) Ranch and 42.1 acres of meadow on the ranch of C. W. Toomey, et al.

The capacities of the ditches are ample to irrigate the area served.

Diversion 190 comprises those of the Toomey Meadow Ditches from both sides of Turner Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$, SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 28 and SW$\frac{1}{4}$ NW$\frac{1}{4}$, NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 27, T21N, R14E, M.D.B.&M.

Board dams are used to divert water into the conduits which consist of earth ditches of varying length. The upper east ditch is about three-eighths mile in length to where it enters the Toomey Ranch. The ditch then flows east about one-fourth mile along the property line and then turns north for about one-half mile to where it joins the conduit from Diversion 191.

The other ditches are short and lead directly onto the irrigated land.

A total area of 157.9 acres of meadow is irrigated from the ditches on the ranch of C. W. Toomey, et al.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 191 comprises those of the Pasquetti Turner Creek Ditches in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ and NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 22, T21N, R14E, M.D.B.&M.

A dam is maintained in the head of the upper ditch to regulate the flow therein. The ditch is about one mile in length to its lower end. About one-half mile below its head the ditch is joined by the lower end of the upper east ditch from Diversion 190.

The main channel is joined a short distance below the head of the upper ditch by the channel of Fletcher Creek below the irrigated land on that creek.

A short ditch takes out from the creek at the location secondly described above for the irrigation of the lands lying below the ranch buildings.

A total area of 184.7 acres of meadow and grain is irrigated from the diversion on the Isolina Pasquetti Ranch. The land in Section 27 receives its water largely across the Freeman and Clark Ranches.

The capacities of the ditches are ample to irrigate the areas served.

Stock water is required in the creek at Diversion 190 throughout the year.

Diversion 192 is that of the Davies-Johnson House Ditch from the south side of the West Branch of Spring Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 19, T21N, R14E, M.D.B.&M.

A loose rock and sod dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length. A wooden settling basin and storage tank has been constructed at the lower end of the ditch from which a pipe line serves the domestic requirements around the ranch buildings. The overflow from the tank is used to

irrigate the land lying near the buildings.

An area of 12.0 acres of alfalfa and meadow is irrigated from the ditch on the Davies-Johnson Lumber Company Ranch.

The maximum capacity of the ditch was estimated as 0.30 cubic foot per second and the normal irrigating head as 0.20 cubic foot per second.

Diversion 193 comprises those of the Davies-Johnson Spring Channel Ditches from both sides of both channels of Spring Creek above their junction in the NE$\frac{1}{4}$ SW$\frac{1}{4}$, NW$\frac{1}{4}$ SE$\frac{1}{4}$, SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 19 and NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 20, T21N, R14E, M.D.B.&M.

Board and sod dams are used to divert water into the conduits which consist of short earth ditches. The upper ditch on the north channel is used to divert water from that channel into the south channel during periods of low flow.

A total area of 79.3 acres of meadow is irrigated from the ditches on the Davies-Johnson Lumber Company Ranch.

The capacities of the ditches are ample to irrigate the area served.

Diversion 194 comprises those of the Freeman Spring Channel Ditches from both sides of Spring Creek in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 20, T21N, R14E, M.D.B.&M.

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

A shallow swale leaves the north side of Spring Creek under this diversion which is used to spread the water over the irrigated land north of the main creek channel.

A total area of 23.5 acres of meadow is irrigated from the ditches on the ranch of the Estate of William Freeman.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 195 comprises those of the Devine Spring Channel Ditches from both sides of Spring Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 20, T21N, R14E, M.D.B.&M.

A board and sod dam is used to divert water into a conduit on the south side of the creek which carries domestic water to the ranch buildings or into the swale on the north side of the creek. Lower down the channel other board dams divert the water directly onto the irrigated land.

A total area of 125.2 acres of meadow, pasture and alfalfa are irrigated from the ditches on the Samuel and Catherine L. Devine Ranch of which 33.5 acres are irrigated pasture. Also an area of 53.0 acres of pasture is irrigated on the Isolina Pasquetti Ranch.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 196 is that of the Calpine Pipe from the north side of Fletcher Creek in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 18, T21N, R14E, M.D.B.&M. (This description was corrected after the map was prepared).

A timber dam is maintained in the creek channel to create a small pond from which a six-inch wood stave pipe line about one and one-fourth miles in length diverts water for use in the Town of Calpine. A small regulating reservoir has been constructed in a dry canyon north of the town to store a reserve for fire protection and periods of peak load. The water is also used to fill the mill pond and to supply water

for the operation of the mill.

An agreement has been entered into between the Davies-Johnson Lumber Company and other claimants to water from the creek to allow the company to make a continuous diversion of 0.75 cubic foot per second through their pipe line.

The amount of water diverted by the pipe line for the period from May 1 to August 31, 1936 has been tabulated in Table 35.

Diversion 197 comprises those of the Davies-Johnson Meadow Ditches from both sides of Fletcher Creek in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 20 and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 19, T21N, R14E, M.D.B.&M.

Board and sod dams are used to divert water into the conduits which consist of short earth ditches except the upper north conduit which is about one-fourth mile in length. The longer conduit follows along the edge of the irrigated land.

A total area of 43.5 acres of meadow is irrigated from the ditch on the Davies-Johnson Lumber Company Ranch.

The capacities of the ditches are ample to irrigate the area served.

Diversion 198 comprises those of the Freeman Fletcher Creek Meadow Ditches from both sides of Fletcher Creek in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 20, T21N, R14E, M.D.B.&M.

Board and sod dams are used to divert water in the conduits which consist of short earth ditches.

A total area of 30.3 acres of meadow is irrigated from the ditches on the ranch of the Estate of William Freeman.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 199 comprises those of the Devine Meadow Ditches from both sides of Fletcher Creek in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 20, T21N, R14E, M.D.B.&M.

Wooden dams are used to divert water into the conduits which consist of two earth ditches about one-fourth mile in length and three short earth ditches. The longer ditches are located one on each side of the creek along the upper edge of the property. The south ditch connects with Diversion 195 from the Spring Creek Channel.

A total area of 69.9 acres of meadow is irrigated from the ditches on the ranch of Samuel and Catherine L. Devine.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 200 comprises those of the Clark Fletcher Creek Meadow Ditches from both sides of Fletcher Creek in the SW$\frac{1}{4}$ NE$\frac{1}{4}$, NE$\frac{1}{4}$ SE$\frac{1}{4}$ and NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 21, T21N, R14E, M.D.B.&M.

The creek channel is badly filled at the upper ditch from Diversion 200 and the creek runs directly into the head of the conduit. The major portion of the water in excess of the capacity of the conduit follows a depression to the south of the ditch and collects in the continuation of the creek channel about 200 feet below the head of the ditch. A slough to the north of the ditch picks up a portion of the excess water and combined with drainage from the area above on that side of the creek follows a channel which flows in a northeasterly direction and finally joins the channel of Craycroft Creek near the southwest corner of Section 2, T21N, R14E, M.D.B.&M.

The upper conduit is about three-eighths mile long with the upper one-half of its length lined with a wooden flume to prevent seepage

losses. The ditch is used for domestic purposes at the Clark Ranch buildings as well as for irrigation purposes.

A second ditch diverts to the north about one-eighth mile below the ditch described above. This ditch passes under the flume of the upper ditch and follows the edge of the irrigated land north of the Clark buildings for about one-half mile. The lower end of the ditch enters the lower Fletcher Creek Ranch of the Estate of William Freeman.

Several short ditches divert from the south side of the creek below the two ditches described in detail above.

A total area of 208.9 acres of meadow, pasture and grain is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Samuel Devine (Couch)	200.1
Estate of Wm. Freeman	8.8
Total	208.9

Drainage water from Diversion 200 collects in the channel below the Devine Ranch and is used to irrigate 53.0 acres of pasture on the Pasquetti Ranch listed as irrigated under Diversion 195.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 201A is that of the Upper Craycroft Creek from the channel of Craycroft Creek in the SW¼ Section 3, T21N, R14E, M.D.B.&M.

The creek naturally floods over a large part of the area during the early portion of the run-off season. Dams have been maintained in the main creek and branch channels thereof to spread the water at lower stages. The dams were not in use in 1936.

A total area of 160.0 acres of sagebrush pasture is irrigated from the channel on the ranch of F. E. Humphrey, Jr.

Diversion 201 is that of Lower Craycroft Creek from the channel of Craycroft Creek in Lot 2, Section 30, T22N, R15E, M.D.B.&M.

The channel flattens out below the location described above and the water is spread over the land lying along the creek. Dams are maintained in Lot 1, Section 30, T22N, R15E, M.D.B.&M., and in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 24, T22N, R14E, M.D.B.&M. to control the course of the water through the channels.

A total area of 91.2 acres of meadow is irrigated from the channel on the following ranches:

Owner	Normal Maximum Irrigated Acreage
F. E. Humphrey, Jr.	45.9
Henry Albini	23.6
J. L. Humphrey	21.7
Total	91.2

An additional area of 79.6 acres on the J. L. Humphrey Ranch is irrigated from Diversion 201 early in the season, but this area receives water from Diversion 239 after Craycroft Creek fails.

Diversion 202 is that of the Turner Mounds Ditch from the west side of the West Side Canal in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 35, T21N, R14E, M.D.B.&M.

A cross log and vertical flashboard dam is used to divert water into the conduit which consists of an earth ditch which loses its identity in the swampy meadow about one-fourth mile below its head. There are two washouts in the east canal bank above the dam which also receive water from Diversion 202 for use on that portion of the Meyers Ranch which lies east of the canal.

A total area of 377.1 acres of meadow is irrigated by means of this diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
B. F. and C. B. Meyers	147.2
Estate of H. A. Turner	109.9
Isolina Pasquetti	120.0
Total	377.1

The maximum capacity of the ditch was measured as 8.50 cubic feet per second and the normal irrigating head is 4.40 cubic feet per second.

The amount of water diverted by the ditch for the period from May 16 to July 25, 1936 has been tabulated in Table 41.

Diversion 203 comprises those of the Henderson West Side Ditches from the east side of the West Side Canal in the SW$\frac{1}{4}$ NW$\frac{1}{4}$ and NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 35, T21N, R14E, M.D.B.&M.

A cross log with vertical flashboard type of dam is used at the location first described above and a wooden headgate type of dam at the other location.

The upper dam is used to back water about one-fourth mile into the conduit described under Diversion 153, when no water is available from that source, and to supply two small ditches near the dam. The lower dam is used to divert supplementary water for use on the lower portion of the area irrigated from the upper dam.

A total area of 120.0 acres of meadow is irrigated from the ditches on the George A. Henderson Ranch.

The dams were not used in 1936, because the area was pastured and received ample water from overflow.

Diversion 204 comprises those of the Pasquetti Upper West Side Ditches from both sides of the West Side Canal in the E½ SE¼, E½ NE¼ Section 27, T21N, R14E, M.D.B.&M.

Wooden dams with horizontal flashboards are maintained in the canal to divert water into the conduits which consist of earth ditches about one-fourth mile in length on each side of the creek at the upper location and short ditches connecting with flat sloughs on the east side of the canal at the other locations. The lower dams also back water over a portion of the lands west of the canal.

A total area of 338.2 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
Isolina Pasquetti	149.2
Battista Pasquetti	189.0
Total	338.2

The capacities of the ditches are ample to irrigate the areas served.

Diversion 205 is that of the Pasquetti Lower West Side Ditch from the east side of the West Side Canal in the SE¼ SE¼ Section 22, T21N, R14E, M.D.B.&M.

A wooden dam with horizontal flashboards is used to divert water into the conduit which consists of a short earth ditch. The ditch ends in a slough from which the water is spread with low board and manure dams.

An area of 33.0 acres of meadow and grain is irrigated from the ditch on the Isolina Pasquetti Ranch and in conjunction with Diversions 206 to 214, inclusive, an area of 720.4 acres of meadow is irrigated

on the ranch of F. E. Humphrey, Jr.

The capacity of the ditch is ample to divert the water required.

Diversions 206 to 210 are those of the Humphrey Ditches from the West Side Canal in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ and NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 23, SW$\frac{1}{4}$ SW$\frac{1}{4}$, NW$\frac{1}{4}$ SW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 14, T21N, R14E, M.D.B.&M. and [illegible]

Wooden headgate type dams with horizontal flashboards are used to divert water into the ditches which are equipped with headgates where needed.

The conduits are all earth ditches of lengths varying from short conduits used to supply water to shallow sloughs to ditches three-fourths mile in length used to irrigate ridges and high ground.

A total area of 720.4 acres of meadow and alfalfa owned by F. E. Humphrey, Jr. is irrigated from the diversions in conjunction with Diversion 205 and Diversion 214.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 211 is that of the Matley Ditch from the east side of the West Side Canal in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 2, T21N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch about one-eighth mile in length to where the water finds its way into the natural slough system from which most of the land is irrigated.

A total area of 134.3 acres of meadow is irrigated from the ditch in conjunction with Diversion 214 on the J. B. Matley Ranch.

The capacity of the ditch is ample to irrigate the area served.

Diversion 212 comprises those of the Humphrey-Newman Ditches from both sides of the West Side Canal in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 1, T21N,

R14E, M.D.B.&M. and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 36, T22N, R14E, M.D.B.&M.

Board dams are used to divert water into the conduits which consist of short earth ditches from both sides of the canal at each dam.

The west ditch at the upper dam is used as a by-pass conduit to turn water away from the meadow east of the canal when it is desired to dry the east portion of the ranch and also to irrigate sagebrush pasture west of the canal on the ranches of F. E. Humphrey, Jr. and E. F. Ghidossi. The lower dam is used to irrigate high ground along the canal.

An area of 160.0 acres of meadow and pasture is irrigated from the diversion in conjunction with Diversion 214 on the ranch of F. E. Humphrey, Jr.

An additional area of 40.3 acres of meadow pasture on the E. F. Ghidossi Ranch receives water from Diversion 212.

Diversion 213 is that of the Berry West Side Ditch from both sides of the West Side Canal in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 36, T22N, R14E, M.D.B.&M.

A board and sod dam is used to divert water into the conduits which consist of short earth ditches.

Diversion 213 is the lower-most diversion from the West Side Canal proper as the canal has not been regularly maintained below this point. The water overflows the canal banks at Diversions 212 and 213 and follows the most westerly slough channel that heads at Diversion 214. The water is re-diverted from the slough at Diversion 219 and again conveyed in a canalized channel.

An area of 232.0 acres of meadow and alfalfa is irrigated from Diversion 213 in conjunction with Diversions 214 and 215 on the Fred Berry Ranch.

An additional area of 25.0 acres of grain is irrigated from Diversion 213 on the E. F. Ghidossi Ranch.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 214 is that of the Humphrey Division from a group of sloughs in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 11, T21N, R14E, M.D.B.&M.

Two wooden re-diversion dams are used to force the water in the desired direction around the upper end of a long ridge which runs in a northeasterly direction from the point of diversion. The dams are also used to divert water into two earth ditches about one and one-half miles in length. The ditches are used to spread water on the high ground along the ridge.

Diversion 214 is used in conjunction with Diversions 205 to 210 on the acreage listed thereunder to regulate the course of the water on the lower end of the ranch of F. E. Humphrey, Jr.

The diversion also controls the irrigation water on portions of the J. B. Matley, F. E. Humphrey, Jr. (Newman) Fred Berry, J. Filippini, A. A. Viscia, E. F. Ghidossi and C. C. Dotta Ranches. The areas irrigated on those ranches are set forth under Diversions 211, 212, 215, 216 and 224, respectively.

Diversion 215 comprises those of the Berry Meadow Dams from the West Side Slough in the SE$\frac{1}{4}$ Section 36, T22N, R14E, M.D.B.&M. and the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 31, T22N, R15E, M.D.B.&M.

A group of board and manure dams are used to back the water over the ground adjoining the slough channels and to divert the water into the desired sloughs. An earth ditch heading near the southwest corner of Section 31, T22N, R15E, M.D.B.&M. conveys water through a ridge for use

from a slough channel east of the high ground to supplement water from Diversion 214.

An area of 232.0 acres of alfalfa and meadow is irrigated from Diversion 215 in conjunction with Diversions 213 and 214 on the Fred Berry Ranch.

Diversion 216 comprises those of the Ghidossi Upper Field Dams from the West Side Slough in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 36, T22N, R14E, M.D.B.&M. and the SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 31, T22N, R15E, M.D.B.&M.

A group of dams on the West Side Slough and its branches are used to divert the water into the desired slough or into a ditch which conveys water about three-eighths mile to the east. Water is released from the ditch into various sloughs and laterals along its course.

An area of 384.2 acres of meadow is irrigated by Diversion 216 in conjunction with Diversion 218 on the E. F. Ghidossi Ranch, and an area of 86.0 acres of meadow is irrigated in conjunction with Diversion 215 on the A. A. Viscia Ranch.

Diversion 217 comprises those of the Casey West Side Dams in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 30, T22N, R15E, M.D.B.&M.

Board and manure dams are used to back water over the lower land adjoining the slough channels and to divert water into a short earth ditch which conveys water to the west of the West Side Slough.

An area of 72.9 acres of meadow is irrigated from the dams on the A. A. Viscia Ranch.

Diversion 218 comprises those of the Ghidossi Lower West Side Dams from the West Side Slough in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 30, T22N, R15E, M.D.B.&M.

Wooden dams are used to divert water into short earth ditches

which connect the main slough with the side sloughs. Low dams in the side sloughs redivert the water onto the higher irrigated ground.

An area of 384.2 acres of meadow is irrigated from Diversion 218 in conjunction with Diversion 216 on the E. F. Ghidossi Ranch.

Diversion 219 comprises those of the Humphrey Mercer Ditches from the east side of the West Side Canal in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ and SW$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 30, T22N, R15E, M.D.B.&M.

The West Side Slough water is intercepted by a canal which heads one-eighth mile south of the middle of Section 30 and runs north along the center line of the section.

Wooden and concrete dams have been constructed in the east bank of the canal at the slough crossings to allow flood waters to pass through and to regulate the diversion for irrigation east of the canal. The diversion conduits are composed of sloughs and ditches.

An area of 156.7 acres of meadow is irrigated from Diversion 219 in conjunction with Diversion 220 on the ranch of F. E. Humphrey, Jr.

Diversion 220 comprises those of the Albini and Humphrey Ditches from the West Side Canal in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 19, T22N, R15E, M.D.B.&M.

The canal is divided into two branch ditches one of which runs directly north for about one mile to connect with the conduit from Diversion 239. The second ditch takes a westerly course and after spilling into and being re-diverted twice from the lower channels of Craycroft Creek finally delivers water into the area near the Albini Ranch buildings.

A total area of 320.4 acres of meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
F. E. Humphrey, Jr.	113.9
Henry Albini	61.8
J. L. Humphrey	144.7
Total	320.4

The area on the J. L. Humphrey Ranch may also be irrigated from Diversion 239 when a shortage occurs in the supply from Diversion 220.

Diversion 221 is that of the Pasquetti Dam from both sides of the Middle Fork of Feather River in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ and NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 26, T21N, R14E, M.D.B.&M.

A wooden dam with a concrete supporting dam in a branch slough, both equipped with horizontal flashboards, is used to divert water into the conduits. The west side conduit located as first described above is about one-fourth mile in length but only carries water from Diversion 221 for about one-eighth mile as water from Diversions 153 and 203 normally supplies the outer end of the ditch.

The east side conduit is an earth ditch about one mile in length which irrigates the land east of the river channel.

The dams when at their maximum heights back water over about 80.0 acres of meadow on the George A. Henderson and the Battista Pasquetti Ranches.

A total area of 232.2 acres of meadow, alfalfa and grain are irrigated from the dam on the Battista Pasquetti Ranch.

The capacities of the ditches are ample to irrigate the areas served.

Diversion 222 is that of the East Side Slough from both sides of the Middle Fork of Feather River in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 23, T21N, R14E, M.D.B.&M.

A rock and board dam is used to divert water into a series of sloughs and ditches which follow the outside edge of the irrigated land on the east side and finally spill into the conduit from Diversion 226. The land lying west of the creek is irrigated by overflow and seepage.

A total area of 184.7 acres of meadow is irrigated from the

diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
R. L. Henderson	134.7
Alice Vanetti	50.0
Total	184.7

The main conduit to the east has a limited capacity at the present time but could be made to carry a considerable quantity of water by repairing the dam and enlarging some sections of the conduit.

Diversion 223 is that of the Vanetti Slough from the east side of the Middle Fork of Feather River in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 23, T21N, R14E, M.D.B.&M.

An old channel of the river is used as a diversion conduit to convey water about 200 feet to where the old channel divides into two sloughs. A dam is maintained in the head of each slough to regulate the flow of water. A number of dams in the sloughs below the head dams back the water over the land. Water from the easterly slough is occasionally re-diverted by a pump in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 24, T21N, R14E, M.D.B.&M. for use on high ground which has been planted to alfalfa.

An area of 177.4 acres of meadow and alfalfa is irrigated from the diversion on the Alice Vanetti Ranch.

Diversion 224 is that of the Humphrey Upper River Ditch from the west side of the Middle Fork of Feather River in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 23, T21N, R14E, M.D.B.&M.

Water is backed into the conduit from Diversion 226 when the water is low. For normal stages of the river a dam must be maintained in the head of the ditch to control the natural flow into the conduit. The ditch is about one-half mile in length to where it empties into two

sloughs from which the water is re-diverted for use on the irrigated land through which the sloughs pass. The sloughs supply a portion of the water to Diversion 214 described hereinbefore.

A lateral near the head of the ditch supplies irrigation water to a portion of the area lying east of the sloughs.

A total area of 1020.7 acres of meadow is irrigated from the ditch on the ranch of F. E. Humphrey, Jr. It also supplies 70.0 acres of meadow on the Julius Filippini Ranch and 143.2 acres of meadow on the C. C. Dotta Ranch. Approximately 610.2 acres of the area on the ranch of F. E. Humphrey, Jr. may also receive water from Diversions 205 to 209.

The capacity of the ditch was estimated as about 10.0 cubic feet per second but ordinarily becomes badly choked with aquatic growth late in the spring.

Diversion 225 is that of the Humphrey North River Channel from the west side of the Middle Fork of Feather River in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 13, T21N, R14E, M.D.B.&M.

A dam located at Diversion 226 diverts water into the conduit which consists of an old river channel running in a northeasterly direction. A dam is maintained in the head of the channel to regulate the release from the river.

A total area of 243.7 acres of meadow is irrigated from the channel on the following ranches:

Owner	Normal Maximum Irrigated Acreage
F. E. Humphrey, Jr.	210.5
C. C. Dotta	33.2
Total	243.7

Diversion 226 is that of the East Side Ditch from the east side

of the Middle Fork of Feather River in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 13, T21N, R14E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch about one-half mile in length followed by about three and one-half miles of slough channel. The slough is the continuation of the conduit from Diversion 222 and receives some drainage and waste water from that diversion.

The water is spread over flat land adjoining the slough at several places along its course and finally at the lower end loses its identity in the meadow land on the M. B. Humphrey Ranch.

A total area of 666.3 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
F. E. Humphrey, Jr.	155.2
Perpetua Genasci and Raffaele Dotta	7.3
C. C. Dotta	20.2
Julius Filippini	158.4
M. B. Humphrey	222.9
Amelia D. Ramelli	102.3
Total	666.3

The maximum capacity of the ditch is over 20.0 cubic feet per second and the normal irrigating head is 14.0 cubic feet per second.

The amount of water diverted by the ditch for the period from June 1 to July 5, 1936 has been tabulated in Table 82.

The ditch is used as a by-pass channel to carry the water away from the bottom land lying below Diversion 226 during the haying season. Stock water is also at times desired through the ditch on some of the lower ranches.

Diversion 227 is that of the Humphrey Lower Concrete Dam from the west side of the Middle Fork of Feather River in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 13, T21N, R14E, M.D.B.&M.

A concrete dam is used to divert water into the conduit which consists of an earth ditch about one-fourth mile in length. The ditch terminates in several laterals which deliver water to a series of sloughs from which the water is spread as desired.

A total area of 210.2 acres of meadow is irrigated from the ditch on the ranch of F. E. Humphrey, Jr.

The capacity of the ditch is ample to irrigate the area served.

Diversion 228 is that of the Humphrey Lower River Dam Ditch from the east side of the Middle Fork of Feather River in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 13, T21N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit and to back water into a group of sloughs above the dam. The conduit is an earth ditch about three-fourths mile in length.

An area of 81.7 acres is irrigated from the ditch on the F. E. Humphrey, Jr. Ranch,

Diversion 229 is that of the Robbins Dam from the Middle Fork of Feather River in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 7, T21N, R15E, M.D.B.&M.

A wooden dam is used to divert water into shallow sloughs from which the water is spread over the irrigated land.

A total area of 200.6 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
F. E. Humphrey, Jr.	64.8
Perpetua Genasci & Raffaele Dotta	135.8
Total	200.6

Diversions 230 and 231 are those of the Dotta Meadow Dams and Dotta Pump from the Middle Fork of Feather River in the SW$\frac{1}{4}$ SE$\frac{1}{4}$, NW$\frac{1}{4}$ SE$\frac{1}{4}$ and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 6, T21N, R15E, M.D.B.&M.

A group of wooden dams are maintained in the main river channel and in the sloughs to back the water over the flat land above the dams and to raise the water high enough to divert it into the higher sloughs. A pump is used to raise water from a deep channel adjoining some of the higher ground onto a portion of the irrigated area.

A total area of 110.9 acres of meadow and alfalfa is irrigated from the diversions on the C. C. Dotta Ranch.

Diversion 232 comprises those of the Filippini Upper Meadow Dams in the channel of the Middle Fork of Feather River in the SE$\frac{1}{4}$ NE$\frac{1}{4}$ and NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 6, T21N, R15E, M.D.B.&M.

A rock and timber dam with flashboard openings for the main slough channels is used to back water over the area lying above the dam and to release the water into either of two channels below the dam. The west of the two channels supplies Diversions 234 and 235 with water. The east channel divides about 300 feet below the dam and its west and east branches respectively supply Diversions 233 and 236.

Diversion 232 is used in conjunction with Diversion 233 to irrigate a total area of 294.8 acres of meadow on the Julius Filippini Ranch.

Diversion 233 comprises those of the Filippini Lower Meadow Dams from the Middle Fork of Feather River in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ and NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 32, T22N, R15E, M.D.B.&M.

Low board and sod dams are used to divert water to the east of the channel into shallow sloughs from which the water spreads naturally

over the irrigated land.

Diversion 233 is used in conjunction with Diversion 232 to irrigate 294.8 acres of meadow on the Julius Filippini Ranch.

Diversion 234 is that of the Filippini Middle Ditch from the west side of the Middle Fork of Feather River in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 31, T22N, R15E, M.D.B.&M.

A rock and sod dam is used to divert water into a shallow slough channel which carries the water in a northerly direction for about one-half mile to where a ditch has been constructed along the west line of Section 29, T22N, R15E, M.D.B.&M. The ditch which is one and three-fourths miles in length intercepts the flow in the slough and also any drainage water from the West Side Canal which reaches it. However, a portion of the ditch has an adverse grade so that the water spills out into the bottom land on the Mickey Ranch meadow.

A total area of 182.5 acres of meadow is irrigated from the diversion on the following ranches:

Owner	Normal Maximum Irrigated Acreage
A. A. Viscia	40.0
E. F. Ghidossi	14.0
F. E. Humphrey, Jr.	78.5
J. L. Humphrey	50.0
Total	182.5

The M. B. Humphrey land on the Mickey Ranch which may receive water from Diversion 234 has been listed as irrigated from Diversion 235.

Diversion 235 is that of the Mickey Meadow from the Middle Fork of Feather River in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 32, T22N, R15E, M.D.B.&M.

The river channel flattens out at Diversion 235 and spreads naturally over the low areas on the M. B. Humphrey (Mickey) Ranch so that

no spreading works are necessary.

A total area of 472.5 acres of meadow is irrigated from the diversion on the M. B. Humphrey Ranch.

Diversion 236 is that of the Mickey East Side Dam in the most easterly channel heading near Diversion 232. The dam is located in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 32, T22N, R15E, M.D.B.&M.

A timber dam with vertical flashboards is used to force water through the sloughs lying east of the ranch buildings. Supporting dams have been built in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ and NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 29, T22N, R15E, M.D.B. &.M., to hold the water as high as possible on the land east of the river.

An area of 226.2 acres of meadow is irrigated from the diversion on the M. B. Humphrey Ranch.

Diversion 237 is that of the Ede River Dam from the Middle Fork of Feather River in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 20, T22N, R15E, M.D.B.&M.

A concrete dam has been constructed to divert water into a conduit on the east side of the river. However, due to a low saddle in the ground lying west of the river channel, about one-fourth mile above the dam, the water by-passes the dam and ditch when the dam is raised high enough to permit adequate diversion into the ditch. The river naturally overflows the meadow below the dam.

About five-eighths mile above the dam a ditch has been constructed from a swamp area along the river bottom to convey water from the river to a point about three-eighths mile east of the dam described above. But upon trial it was found that the ditch was not feasible and it consequently has been abandoned.

An area of 65.0 acres of meadow receives water from Diversion 237 on the Albert E. Ede Ranch.

Diversion 238 is that of the Humphrey Dam East Ditch from the east side of the Middle Fork of Feather River in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 20, T22N, R15E, M.D.B.&M.

An earth embankment with concrete spillways has been built across the bottom land of the river at this point to intercept the flow in the various sloughs and to permit its diversion where desired.

Diversion 238 is followed by an earth ditch which heads at the east end of the embankment and conveys water in a northerly direction through a main ditch and laterals for a distance of approximately two miles. Two pumps are used in one of the laterals about one mile below the head of the ditch to raise water for the irrigation of a small portion of the area under the ditch.

A pick-up ditch has been constructed in the field lying east of the head of the ditch described above to collect whatever water may be forced around the east end of the embankment. The pick-up ditch conveys the water in an easterly direction for use of 109.8 acres of land belonging to Edna F. Dotta hereinbefore described as irrigated from Diversion 219 on Smithneck Creek. Approximately 31.0 acres of land on the Dotta property lie below the East Ditch.

A total area of 465.1 acres of meadow is irrigated from the ditch on the following ranches:

Owner	Normal Maximum Irrigated Acreage
J. L. Humphrey	340.7
Louisa Scolari	124.4
Total	465.1

The capacity of the ditch is ample to irrigate the area served.

Diversion 239 is that of the Humphrey Dam West Ditch from the

west side of the Middle Fork of Feather River in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 20, T22N, R15E, M.D.B.&M.

The earth embankment and concrete spillway section described under Diversion 238 also serves as a diversion dam for Diversion 239. The earth embankment also serves as the lower bank of the conduit which extends one and one-half miles in a northwesterly direction from the main river spillway. The embankment is pierced by eleven openings in the first one-half mile of the conduit. These openings are used to release flood water and to irrigate the area directly below the openings.

A concrete dam, in a slough which intercepts the water from the outer openings, re-diverts the water into an earth ditch which joins the most easterly lateral described below about one-half mile below its head. Seven additional openings which are used only for the release of irrigation water occur in the remaining length of the conduit.

Three of the laterals are of considerable length as follows: The east lateral is one and three-fourths miles long; the middle lateral which is extended on the line of the West Side Canal is three-fourths mile long; and the west lateral is one mile long. The outer end of the main conduit empties into the outside slough of Craycroft Creek which is known as Marble Slough.

A total area of 750.3 acres of meadow is irrigated from the diversion on the J. L. Humphrey Ranch. The dam also backs water over 80.0 acres of meadow on the H. Albini Ranch.

Diversion 240 comprises those of the Humphrey Lower Field Dams in a side channel of the Middle Fork of Feather River in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 7, T22N, R15E, M.D.B.&M.

Two concrete dams have been constructed in side channels which

drain back to the river to back water over the low areas lying along the channels and to irrigate a portion of the land lying east of the river channel.

An area of 60.0 acres of meadow is irrigated from the ditches on the J. L. Humphrey Ranch.

Diversions 241 and 242 are those of the M. B. Humphrey Tognazini Ranch and the L. D. Maddalena River Dams from the Middle Fork of Feather River in the SE¼ SW¼ and NE¼ SW¼, respectively, of Section 6, T22N, R15E, M.D.B.&M.

Wooden and rock dams are used to back the water over the land adjoining the river channels and to fill the various sloughs leading away from the river.

A total area of 335.1 acres of meadow is irrigated from the dams on the following ranches:

Owner	Normal Maximum Irrigated Acreage
M. B. Humphrey	302.6
L. D. Maddalena	32.5
Total	335.1

Diversion 243 is that of the Noble East Ditch from the east side of the Middle Fork of Feather River in the SE¼ NE¼ Section 1, T22N, R14E, M.D.B.&M.

A wooden dam is used to divert water into the conduit which consists of an earth ditch about three-eighths mile in length. The ditch empties into a channel of Last Chance Creek and supplies supplementary water to Diversion 55, described hereinbefore.

An area of 176.3 acres of meadow, grain and alfalfa is irrigated from the ditch by direct diversion and by re-diversion from Diversion 55

on the ranch of Westover Company.

The maximum capacity of the ditch was estimated as 3.00 cubic feet per second.

Diversions 244 and 245 are those of the Noble West Ditch and the Noble Dam from the Middle Fork of Feather River in the SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 1, T22N, R15E, M.D.B.&M. and the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 36, T23N, R15E, M.D.B.&M., respectively.

An earth embankment with timber spillway structures located as secondly described above backs water over the low areas lying above the dam and into the ditch located as first described above. The ditch is about one-fourth mile in length to where a pump is used to raise the water into a high line ditch which also receives water from Diversion 263. The highline ditch runs in a northerly direction for about one-half mile from the pumping station.

A second pumping plant is used to pump water from a cut which heads at the east end of the Noble Dam. The pumping plant is located in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 36, T23N, R14E, M.D.B.&M. The ditch from the pumping plant runs in a northeasterly direction for about one-fourth mile.

A total area of 599.5 acres of meadow and alfalfa is irrigated from the diversions on the ranch of Westover Company.

Diversion 246 is that of the Decker Dam from the Middle Fork of Feather River in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 35, T23N, R14E, M.D.B.&M.

A concrete dam with two spillway openings is used to back water over the area above the dam and to divert water into high sloughs on both sides of the river channel. A small concrete supporting dam has been constructed on a slough in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 35, T23N, R14E, M.D.B.&M. to assist in backing the water over the land and to act as a spillway for

surplus water.

An area of 144.4 acres of meadow is irrigated from the dam on the G. Falchi Ranch.

Diversion 247 is that of the Carmichael Dam on a branch slough of the Middle Fork of Feather River in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 26, T23N, R14E, M.D.B.&M.

Diversion 247 is largely dependent upon Diversion 246 to force water into the slough on which the diversion dam is located. The dam is used to back the water over the land above the dam.

An area of 85.9 acres of meadow is irrigated from the dam on the C. Roy and P. L. Carmichael Ranch.

Diversion 248 is that of the Galeppi North Springs on the west side of Little Last Chance Valley in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ and SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 17, T24N, R16E, M.D.B.&M.

The main spring occurs in a shallow draw above the edge of the irrigated land on the ranch of Rose Galeppi, et al. Other small springs are similarly located near the main spring. The water from the springs is picked up by the conduits from Diversions 10 and 11-A and used on the areas described as irrigated from those sources.

The combined flow of the springs was estimated as 0.50 cubic foot per second in September 1936.

Diversion 249 is that of the Galeppi South Spring on the west side of Little Last Chance Valley in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 20, T24N, R16E, M.D.B.&M.

The main spring occurs on the edge of the table-land which borders the valley and drains into the lower ends of the conduits from Diversions 10 and 12 where the water is used to supplement the diversion from

the creek. Two small ditches are used to spread a portion of the water over an area of about 10.5 acres lying between the spring and the conduits from the creek.

The area irrigated from the spring has been combined with the areas irrigated from the other diversions on the ranch of Rose Galeppi, et al. as show in Table 2.

The flow of the spring was estimated at 0.30 cubic foot per second in September 1936.

Diversion 250 is that of the Galeppi and Dotta Springs on the southwesterly edge of Little Last Chance Valley in the NE$\frac{1}{4}$ SE$\frac{1}{4}$, SE$\frac{1}{4}$ SE$\frac{1}{4}$ and NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 20, T24N, R16E, M.D.B.&M.

A group of springs occurs along the edge of the meadow in the first two locations described above and either flow directly across the meadow to the creek or are spread from two short earth ditches. The last described location is the head of a ditch diverting from another group of springs which occurs some distance back from the edge of the meadow and during the dry season does not reach the described point. During the irrigation season, however, the flow is sufficient to reach through and to be diverted by the ditch which spreads the water near the other springs.

The springs are used to irrigate 10.0 acres of meadow on the Frank V. Dotta Ranch and to provide supplementary water for a portion of the area described as irrigated by Diversion 12 on the ranch of Rose Galeppi, et al.

The flow of the springs was estimated as 0.15 cubic foot per second in September 1936.

Diversion 251 is that of the Dotta Frenchman Creek Spring on the south side of Frenchman Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 31, T24N, R16E, M.D.B.&M.

The spring occurs at the foot of the hills and flows onto the meadow where it may either be spread or may find its way to the creek in a shallow channel through the meadow.

The spring is used to irrigate a portion of the area described hereinbefore under Diversion 19 on the Frank V. Dotta Ranch.

The flow of the spring was estimated as 0.25 cubic foot per second in September 1936.

Diversion 252 is that of the Lombardi Canyon on the west side of Bear Valley Creek in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 30, T21N, R16E, M.D.B.&M.

Numerous wet-season springs occur in Lombardi Canyon and provide an early spring run-off from the area. The water is diverted from the channel at the location described above and used in conjunction with water from Diversions 84 and 85 to irrigate a portion of the area listed as irrigated from those sources. The flow from the canyon ordinarily fails entirely during the dry season.

Diversion 253 is that of the Loyalton Pipe from a spring located in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 19, T21N, R16E, M.D.B.&M.

A pond about 50 feet in diameter and 5 feet deep has been constructed at the spring located as described above to serve as a regulating basin at the head of an eight-inch pipe line which carries the municipal water supply for the Town of Loyalton.

The pipe line is about one and one-fourth miles in length from its head to the upper edge of the town.

During the season of peak demand Diversion 253 has been connected with the conduit from Diversion 86 as described under that diversion to supplement the natural flow from the spring.

Seepage from the spring area at Diversion 253 provides irrigation water for 6.5 acres of meadow on the ranch of California Lands, Inc.

No measurement was made of the discharge from the spring in 1936.

Diversion 254 is that of the Lombardi Spring in the SE¼ SW¼ Section 10, T21N, R15E, M.D.B.&M

The water from the spring which occurs at the edge of the irrigated land spreads radially over the meadow on the L. S. Lombardi Ranch. A small earth basin has been constructed at the spring to serve as a regulating control for a portion of the water.

An area of 51.8 acres of meadow is irrigated entirely from the spring.

The flow of the spring was estimated as 0.50 cubic foot per second in September 1936.

Diversion 255 comprises those of the Henderson Springs in the NE¼ NE¼ and NW¼ NE¼ Section 35, T21N, R14E, M.D.B.&M.

The springs occur in an almost level basin which lies slightly higher than the adjoining irrigated land. The basin is occasionally flooded from Perry Creek during freshets but is too high for diversion and use of ordinary flows from the creek.

An area of 63.8 acres of meadow is irrigated from the springs on the ranches of George A. Henderson and Giulio Torri, et al., as shown in Table 2.

There are a number of separate springs scattered over the area, none of which flow enough water to irrigate more than an acre of land during the dry-weather season. During the irrigation season the springs if augmented with occasional rains provide a more satisfactory supply of water but they still fall short of supplying the normal requirements for the area.

Diversion 256 comprises those of the Alpers Springs in the SE$\frac{1}{4}$ NW$\frac{1}{4}$, NW$\frac{1}{4}$ SE$\frac{1}{4}$ and SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 6, T20N, R15E, M.D.B.&M.

Three separate springs along the base of the hills adjoining the irrigated land are grouped under Diversion 256.

The springs are used to irrigate an area of 80.0 acres of meadow on the Fred A. Alpers Ranch. The portion of this area irrigated from the two south springs may also receive supplementary water from Diversion 236.

The combined flow of the three springs was estimated as 1.00 cubic foot per second in October 1936.

Diversion 257 comprises those of the Campbell Springs in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 19 and the NE$\frac{1}{4}$ NW$\frac{1}{4}$, NW$\frac{1}{4}$ NW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 20, T20N, R15E, M.D.B.&M.

A series of springs, varying in temperature from warm to hot, occur along the base of the hills adjacent to the flat land in the valley.

The water from the springs is supplemented by natural drainage from small canyons early in the spring. The combined water is used to irrigate a total area of 166.7 acres of meadow and to supply domestic and other water to a hotel, swimming pool, and bath houses on the Marie Matterolo property.

The flow from the springs of approximately 0.30 cubic foot per second is entirely consumed on the property.

Diversion 258 comprises those of the Hobo Springs (a portion of Campbell Springs) in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ and Lot 2 of NW$\frac{1}{4}$ Section 19, T20N, R15E, M.D.B.&M.

A group of springs with an estimated total flow of 0.05 cubic foot per second is located along the foot of the hills on the Marie Matterolo and the Dell L. Johnson Ranches. The water is owned by the

ranches on which it occurs. An area of 3.0 acres of meadow is irrigated from the springs on the Dell L. Johnson Ranch.

Any water in excess of that used on the area described above finds its way into the Miller lateral of Diversion 129 where it commingles with the flow from Webber Creek.

Diversion 258A is that of the Miller Spring in the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 24, T20N, R14E, M.D.B.&M.

The spring is located in the meadow irrigated from Diversion 128 on the Dell L. Johnson Ranch.

The water from the spring is occasionally used on the Johnson Ranch but is owned by Anna B. Miller. The water is picked up in the Miller and Dellera Ditch for use under Diversion 129 on the Miller Ranch.

The spring had an estimated flow of 0.10 cubic foot per second in 1936.

Diversions 259 and 260 are those of the Amodei Upper Spring and the Amodei Meadow Springs in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 23 and the NW$\frac{1}{4}$ SE$\frac{1}{4}$ and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 14, respectively, of T20N, R14E, M.D.B.&M.

Water from the Amodei Upper Spring is carried in an earth ditch for about three-fourths mile to where it enters the land irrigated therefrom above Diversion 260.

About five-eighths mile below the head of the ditch a settling box has been constructed in the ditch bank to serve as the headworks for a domestic water pipe line about one-eighth mile in length. The water from the Meadow Springs is spread directly onto the irrigated land by means of short ditches.

The water from the two sources is used to irrigate 71.2 acres of meadow on the John Amodei Ranch. Waste water from the springs collects

in a swale below the Amodei Ranch and is used to irrigate 62.0 acres of pasture on the A. E. Strang Ranch.

The total flow from the two springs was estimated as 1.00 cubic foot per second.

Diversion 261 is that of the H. Dotta Springs in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 23, T20N, R14E, M.D.B.&M.

The springs are used to supply supplemental water to a portion of the area listed hereinbefore as irrigated from Diversion 158 on the Henry Dotta Ranch and for the irrigation of 3.3 acres on the J. Amodei Ranch.

The flow of the springs was estimated as 0.20 cubic foot per second in October 1936.

Diversion 262 is that of the Cavitt Foothill Springs in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 9, and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 4, T20N, R14E, M.D.B.&M.

The springs occur in the meadow along the base of the hills and discharge their flow directly onto the irrigated land. Drainage from the springs is collected in the channel of Spring Brook.

A total area of 30.0 acres of meadow is irrigated from the springs on the J. H. Cavitt Ranch.

The flow of the individual springs are small and not susceptible of measurement.

Diversion 263 is that of the Noble Reservoir the outlet of which is located in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 1, T22N, R14E, M.D.B.&M.

The reservoir has an estimated capacity of two hundred acre-feet and a maximum depth at the dam of 12 feet. An earth ditch about one mile in length, with the irrigated land beginning about one-eighth mile below the dam, delivers water to the area served by the reservoir. The

ditch and pumping plant described under Diversion 244 deliver supplementary water into the ditch about three-eighths mile below its head.

The reservoir was filled in 1936 but no record was made of its use.

About 45.0 acres of alfalfa and meadow are irrigated from the reservoir above the gravity irrigated area along the river. The area has been included in the area described as irrigated from Diversions 244 and 245 on the E. B. Noble Ranch.

Diversion 264 is that of the Little Truckee Ditch from the north side of the Little Truckee River in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 15, T19N, R15E, M.D.B.&M.

A timber and rock crib dam is used to divert water into the conduit which consists of an earth ditch about two miles in length to the summit of the divide between the Little Truckee River and the Middle Fork of Feather River. After passing the summit the conduit is partly canalized channel and partly washed gully for about one-half mile until the water reaches the natural drainage course through Onion Valley. The water then flows in the natural channel of Onion Creek, thence into Cold Creek and on to join Webber Creek a short distance above the division dam at the head of Town Creek and Perry Creek.

The Little Truckee Ditch is owned and operated by the Sierra Valley Water Company. The water is re-diverted for use on land belonging to the shareholders of the company in Sierra Valley through the diversion conduits already described under Diversions 128, 129, 131, 132 to 154 and 221 to 246, inclusive.

The maximum capacity of the ditch was measured as 64.0 cubic feet per second and the normal irrigating head as 60.0 cubic feet per second.

The amount of water diverted by the ditch during the 1936 season has been tabulated in Table 20.

Diversion 265 comprises those of the Nelson Ditches from both sides of two unnamed canyons in the NW¼ SW¼ and NE¼ SW¼ of Section 11, T22N, R14E, M.D.B.&M. and the NE¼ NE¼ of Section 15 and SW¼ SW¼ of Section 11, T22N, R14E, M.D.B.&M., respectively.

Loose rock dams are used at the upper ditches and wooden headgates at the lower ditches to divert the water onto the land.

A total area of 78.0 acres of meadow is irrigated from these sources on the V. Nelson Ranch.

The streams supplying the ditches flow for only a short time early in the spring of the year so that the land is dependent upon late spring rains to insure a normal crop.

Diversion 266 comprises those of the Falchi and Noble Ditches from both sides of Falchi Canyon in the SE¼ SE¼ and NE¼ SE¼ Section 3 and the NW¼ SW¼ and NW¼ NE¼ Section 2 all in T22N, R14E, M.D.B.&M.

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

A total area of 139.5 acres of meadow is irrigated from the ditches on the following ranches:

Owner	Normal Maximum Irrigated Acreage
G. & M. Falchi	101.5
Westover Company	28.0
Total	129.5

The stream supplying the ditches flows an adequate amount of water to irrigate the land for only a short time early in the spring. Late spring irrigation is dependent upon May and June rains.

Diversion 267 comprises those of the Mapes West Meadow Ditches from both sides of Mapes Creek in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 11, NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 14, SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 13 and W$\frac{1}{2}$ of NW$\frac{1}{4}$ Section 24 all in T23N, R14E, M.D.B.&M.

Loose rock and gravel dams for the upper diversions and wood, rock and earth dams for the central diversions are used to divert water into the earth ditches used to convey the water to the higher portions of the irrigated land. The lowermost dam consists of an earth levee about one-eighth mile in length which ponds the water from the creek and collects drainage water for diversion onto the lower portion of the ranch by way of a ditch through the levee.

Side canyons entering the irrigated land in the SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 14 and the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 23, T23N, R14E, M.D.B.&M. contribute some water to the lower portion of the area under Diversion 267.

A total area of 1211.5 acres of meadow, alfalfa and pasture is irrigated from the diversion in conjunction with Diversion 268 on the Frank Carmichael Ranch.

The streams which supply water to the area furnish adequate water only during the early spring. Subsequent to May 1, the irrigated area is largely dependent upon spring rains to mature the crop.

A perennial spring in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 11, T23N, R14E, M.D.&M. supplies domestic and stock water at and near the ranch buildings. A second spring located in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 24, T23N, R14E, M.D.B.&M. supplies stock water in the central portion of the ranch. The total flow of the springs was estimated as 0.10 cubic foot per second for the first described and about the same for the second.

No measurements of capacities of ditches were made but the observed capacities were large.

Diversion 268 comprises those of the Mapes East Meadow Ditches from a group of creeks entering the irrigated land in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ and N$\frac{1}{2}$ of SE$\frac{1}{4}$ Section 13, T23N, R14E, M.D.B.&M. and in the N$\frac{1}{2}$ of SW$\frac{1}{4}$ Section 18, T23N, R15E, M.D.B.&M.

Loose rock and gravel dams are used to divert water into the conduits which consist of earth ditches along the upper edge of the irrigated land. The ditches vary in length from a few hundred feet to over one-half mile.

Drainage from the upper ditches and the flow not diverted from the creeks collect in a shallow reservoir located in the E$\frac{1}{2}$ of NE$\frac{1}{4}$ Section 24, T23N, R14E, M.D.B.&M. and the W$\frac{1}{2}$ of NW$\frac{1}{4}$ Section 18, T23N, R15E, M.D.B.&M. The water is released from the reservoir as needed to irrigate a part of the lower portion of the ranch. The capacity of the reservoir was estimated as 80.0 acre-feet.

Diversion 268 is used in conjunction with Diversion 267 to irrigate a total area of 1211.5 acres of meadow, alfalfa and pasture on the Frank Carmichael Ranch.

No measurements of capacities of ditches were made but the observed capacities were large.

Diversion 269 comprises those of the A. D. Maddalena Pasture Ditches from Bonta Creek in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ and NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 29, T23N, R15E, M.D.B.&M.

Rock and sod dams are used to flood the water over the irrigated area which consists of sagebrush pasture.

A total area of 122.5 acres of pasture is irrigated from the ditches on the A. D. Maddalena Ranch.

The stream which supplies the water furnishes adequate water during only a short period early in the spring. The limited later run-off

is used on the Sam Bonta Ranch.

Diversion 270 comprises those of the Bonta Creek Ditches from both sides of Bonta Creek in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 16, T23N, R15E, M.D.B.&M. Additional points of diversion have been used as convenience determined along the shallow creek channel in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 20 and the SW$\frac{1}{4}$ NW$\frac{1}{4}$ and NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 21, T23N, R15E, M.D.B.&M.

Loose rock and gravel dams are used to divert water into the conduits which consist of earth ditches about one-half mile in length on both sides of the creek.

A total area of 742.0 acres of alfalfa, meadow and grain is irrigated from the ditches on the Sam Bonta Ranch.

The flow of Bonta Creek occurs early in the spring and cannot be depended upon for late irrigation. As a consequence there is rarely water available late enough to irrigate the grain crop which must depend on late spring rains for maturation.

Diversion 271 is that of the Bonta East Creek Ditch in the SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 16, T23N, R15E, M.D.B.&M.

A loose rock dam is used to divert water into the conduit which consists of an earth ditch about one-fourth mile in length.

A total area of 90.0 acres of alfalfa, meadow, grain and sage-brush pasture is irrigated from the ditch on the Sam Bonta Ranch.

The flow of the creek is confined to the early spring as the stream entirely fails early in May.

Diversion 272 comprises those of the L. D. Maddalena Pasture Ditches from both sides of Bonta East Creek in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 22, T23N, R15E, M.D.B.&M.

The creek channel flattens out and spreads the water naturally over the upper portion of the irrigated area. Cross ditches are used to

keep the water properly spread.

A total area of 109.0 acres of sagebrush pasture is irrigated from the ditches on the L. D. Maddalena Ranch.

The flow of the creek is confined to the early spring months and is not ordinarily available for irrigation later than about May 15.

A spring located in the N½ of Section 15, T23N, R15E, M.D.B. &M., which is piped to the ranch buildings, provides domestic water throughout the year.

Diversion 273 comprises those of the Laffranchini Creek Ditches from both sides of Laffranchini Creek in the NW¼ SE¼ and SE¼ SE¼ Section 13 and the SE¼ NE¼ and SE¼ SE¼ Section 23, T24N, R15E, M.D.B.&M.

Loose rock and gravel dams are used to divert water into the conduits which consist of earth ditches of varying lengths. The upper west ditch is about two miles in length and the upper east ditch is three-fourths mile in length. The other ditches are relatively short.

A total area of 768.5 acres of meadow, alfalfa, grain and sagebrush pasture is irrigated from the creek on the L. A. Laffranchini Ranch. Excess water draining from the Laffranchini Ranch spreads over sagebrush pasture land on the Philip E. Ede Ranch.

The flow of Laffranchini Creek fails rapidly after the early spring run-off and is not depended upon for irrigation water to any great extent after May 1 although some water is normally available until about June 1.

Diversion 274 comprises those of the Trosi West Canyon and Trosi Middle Canyon Ditches in the NW¼ NE¼, NE¼ NE¼ Section 18 and NW¼ NW¼ Section 17, T23N, R16E, M.D.B.&M. and the NE¼ SE¼, SE¼ SE¼ Section 7, T23N, R16E, M.D.B.&M., respectively.

Loose rock and dirt dams are used to divert water into the conduits which consist of earth ditches of varying lengths. The upper West Canyon Ditch is about one and one-half miles in length, the middle West Canyon Ditch is about one-half mile in length and the other ditches are shorter.

Diversion 274 is used in conjunction with Diversion 275 to irrigate a total area of 533.2 acres of meadow, grain, alfalfa and pasture on the Elsie Golden Ranch. Any water in excess of the requirements on the Golden Ranch is spread over sagebrush pasture land on the Philip E. Ede Ranch.

The flows of the creeks serving Diversions 274 and 275 ordinarily fail rapidly after about April 15 and by May 15 have practically ceased to flow. A perennial spring located in the NW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 17, T23N, R16E, M.D.B.&M. supplies stock and domestic water at the ranch buildings throughout the year.

Diversion 275 comprises those of the Trosi East Canyon Ditches from both sides of the Trosi East Canyon in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 8, T23N, R16E, M.D.B.&M.

Loose rock and gravel dams are used to divert water into the conduits which consist of three earth ditches. There are two ditches from the east side of the creek the upper of which is about one and one-half miles in length. The other ditches are relatively short.

A small area of pasture is irrigated from a spring on the hillside north of the heads of the ditches in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 8 T23N, R16E, M.D.B.&M.

Diversion 275 is used in conjunction with Diversion 274 to irrigate a total area of 533.2 acres of meadow, grain, alfalfa and

pasture on the Elsie Golden Ranch.

The flow of the Trosi East Creek fails early in the spring and is not depended upon for irrigation water after about May 15.

Diversion 276 is that of the R. E. Guscetti Ditch from the south side of Guscetti Canyon in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 27, T22N, R16E, M.D.B.&M.

A loose rock dam is used to divert water into the conduit which consists of an earth ditch about one-fourth mile in length.

The ditch is used in conjunction with water from springs located in the same subdivision to irrigate 24.5 acres of meadow, grain and alfalfa on the R. E. Guscetti Ranch. The springs furnish stock and domestic water throughout the year.

The flow of Guscetti Canyon occurs early in the spring and ordinarily fails entirely by May 15.

The property is in the Middle Fork of Feather River Watershed but is not tributary to the main stream system.

Diversion 277 is that of the W. H. Guscetti Ditch from the east side of an unnamed canyon in the NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 33, T22N, R16E, M.D.B.&M.

A loose rock dam is used to divert water into the conduit which consists of a short earth ditch.

A total area of 20.6 acres of grain and meadow is irrigated from the ditch on the W. H. Guscetti Ranch.

The flow of the unnamed canyon ordinarily fails early in the spring and is not available for irrigation after about May 1. A small spring in the same subdivision provides stock and domestic water throughout the year.

The property is in the Middle Fork of Feather River watershed but is not tributary to the main stream system.

SUPPLEMENTAL SPRINGS, ARTESIAN WELLS, AND RESERVOIRS

There are three sources of summer water supply in the Middle Fork of Feather River stream system above Beckwith which may be considered as supplemental to the natural irrigation flow of the streams in the basin. These three sources of supplemental irrigation season supply are springs, artesian wells, and reservoirs, the first two being water from natural underground storage, and the third water from artificial surface storage.

SPRINGS

The watershed of the Middle Fork of Feather River in the vicinity of Sierra Valley is of a varied geological texture. A portion of the east rim and also of the west rim is of granite formation. The area between the two granite sections appears to be a type of native sedimentary rock. The change in structure of the rock bedding of the area has apparently been conducive to the occurrence of springs in some portions of the area.

Another source of springs is the outer edge of detritus slopes at the base of the hills on the west side of the valley. A relatively impervious stratum appears to underlie the detritus slopes at about the elevation of the valley floor. Since the gravelly and sandy surface of the fans absorbs relatively large amounts of water, the excess above the waterholding capacity of the soil builds up a water table on the impervious substratum which may approach the surface of the ground on the fringes of the slope causing the occurence of springs or spring areas.

The following is a tabulation of the more important springs in the stream system:

1. Galeppi North Springs are located in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ and SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 17, T24N, R16E, M.D.B.&M., and are tributary to Little Last Chance Creek. The flow from the springs was estimated as 0.50 cubic foot per second, all of which is diverted by Diversion 248 for use on the ranch of Rose Galeppi, et al.

2. Galeppi South Springs are located in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 20, T24N, R16E, M.D.B.&M. and are tributary to Little Last Chance Creek. The flow of the springs was estimated as 0.30 cubic foot per second, all of which is diverted by Diversion 249 for use on the ranch of Rose Galeppi, et al.

3. The Galeppi and Dotta Springs are located in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ and SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 20, T24N, R16E, M.D.B.&M. and are tributary to Little Last Chance Creek. The combined flow from the springs was estimated as 0.15 cubic foot per second all of which is diverted by Diversion 250 for use on the Frank V. Dotta and Rose Galeppi Ranches.

4. The Dotta Frenchman Creek Spring is located in the NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 31, T24N, R16E, M.D.B.&M., and is tributary to Frenchman Creek. The flow from the spring was estimated as 0.25 cubic foot per second, all of which is diverted by Diversion 251 for use on the Frank V. Dotta Ranch.

5. Loyalton City Spring is located in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 19, T21N, R16E, M.D.B.&M., and is tributary to Smithneck Creek. The flow from the spring is intercepted in a small regulating pond and diverted by means of Diversion 253 for use for municipal purposes in the Town of Loyalton.

6. Lombardi Spring is located in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 10, T21N, R15E, M.D.B.&M., and is indirectly tributary to the Middle Fork of Feather

River. The flow from the spring was estimated as 0.50 cubic foot per second all of which is diverted by means of Diversion 254 for use on the L. S. Lombardi Ranch.

7. The Henderson Springs are located in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 35, T21N, R14E, M.D.B.&M., and are tributary to the Middle Fork of Feather River. The combined flow from the springs was estimated as 0.10 cubic foot per second, all of which is diverted by means of Diversion 255 for use on the ranches of G. A. Henderson and Giulio Torri, et al.

8. The Alpers Springs are located in the SE$\frac{1}{4}$ NW$\frac{1}{4}$, NW$\frac{1}{4}$ SE$\frac{1}{4}$ and SW$\frac{1}{4}$ SE$\frac{1}{4}$ Section 6, T20N, R15E, M.D.B.&M., and are tributary to Town Creek. The combined flow of the three springs was estimated as 1.00 cubic foot per second, all of which can be diverted by Diversion 256. Drainage from Diversion 256 collects in the channel of Town Creek.

9. Blinman Springs are located in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 16, T20N, R15E, M.D.B.&M., and are tributary to Lemon Creek. The water from the springs is utilized upon the Anna B. Miller Ranch for stock and domestic purposes and for the irrigation of her lands. The estimated flow of the spring channel has been tabulated in Table 16. The flow, set forth in the table, after July 1 was derived entirely from the spring.

10. The Campbell Springs are located in the NE$\frac{1}{4}$ NE$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 19, and the NE$\frac{1}{4}$ NW$\frac{1}{4}$, NW$\frac{1}{4}$ NW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 20, T20N, R15E, M.D.B.&M., and are tributary to Lemon Creek. The flow of the springs was not measured but was adequate during the dry-weather season to supply the Campbell Hot Springs Hotel with water for hotel use and for the filling of a swimming pool. Water in excess of that consumed for hotel use was spread for irrigation purposes. The entire use from the springs has

been described as diverted by Diversion 257.

11. Hobo and Johnson Springs and the Miller Spring are located in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ and Lot 2 of NW$\frac{1}{4}$ Section 19, T20N, R15E, M.D.B.&M., and the NE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 24, T20N, R14E, M.D.B.&M.; respectively. The water from Hobo Springs rises on the M. Matterolo Ranch and after use thereon is used with the Johnson Springs to irrigate an area of 3.0 acres on the Dell L. Johnson Ranch and then collects in the Miller Lateral of the Miller-Dellera Ditch. The use of the springs has been further described under Diversions 258 and 258A. The flow of the springs was estimated as 0.10 cubic foot per second at each of the two locations.

12. Treasure Spring and Camp Springs are located in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ and SE$\frac{1}{4}$ NW$\frac{1}{4}$, respectively, of Section 30, T20N, R15E, M.D.B.&M., and are tributary to Cold Creek. Water from Camp Springs is used for domestic purposes at the S. C. Linebaugh Camp and in conjunction with Treasure Spring is also diverted for use upon the Linebaugh Meadow. The combined flow of the springs was estimated as 1.00 cubic foot per second.

13. The Amodei Upper Spring is located in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 23, T20N, R14E, M.D.B.&M., and is tributary to Hamlin Creek. The flow of the spring was estimated as 0.20 cubic foot per second, all of which is diverted by means of Diversion 259 for use on the John Amodei Ranch.

14. The Amodei Lower Springs are located in the NW$\frac{1}{4}$ SE$\frac{1}{4}$ and NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 14, T20N, R14E, M.D.B.&M., and are tributary to Hamlin Creek. The combined flow of the springs was estimated as 0.80 cubic foot per second all of which is diverted by Diversion 260 for use on the John Amodei Ranch.

15. The H. Dotta Springs are located in the SE$\frac{1}{4}$ NW$\frac{1}{4}$ and SW$\frac{1}{4}$ NW$\frac{1}{4}$

Section 23, T20N, R14E, M.D.B.&M., and are tributary to Hamlin Creek. The combined flow of the springs was estimated as 0.20 cubic foot per second all of which is diverted by means of Diversion 261 for use on the Henry Dotta Ranch.

16. The Spring Brook Spring is located in the SW$\frac{1}{4}$ NE$\frac{1}{4}$ Section 9, T20N, R14E, M.D.B.&M., and is tributary to Turner Creek. The spring is used to supply domestic water at the Delia Martinetti Ranch buildings through a pipe line which heads in a circular wooden tank at the spring and also supplies the flow at the head of Spring Brook. Additional water collects in the Spring Brook from the springs described below. The flow of the spring was measured as 1.50 cubic feet per second.

17. The Cavitt Foothill Springs comprise a series of small springs located along the base of the hills in the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 4 and the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 9, T20N, R14E, M.D.B.&M., and are tributary to Spring Brook and Turner Creek. The flow of the springs is small during the dry weather season and is not susceptible of measurement. The use of water from the springs has been described under Diversion 262.

18. The Copren Spring is located in the NE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 31, T21N, R14E, M.D.B.&M., and is tributary to Turner Creek. The water is diverted by a ditch which conveys it around the hill for use on the Suzette Copren property. The estimated flow of the ditch at its place of use was 0.40 cubic foot per second in the fall of 1936.

19. In addition to the prinicipal springs described above several smaller and less well-known springs occur which are utilized for stock and domestic water at the places of their respective occurrence. The following list includes a number of such springs:

Name of Spring or Name of Owner	Location	Estimated Flow Cubic Feet per Second
Nelson	NE$\frac{1}{4}$ Sec. 15, T22N, R14E, M.D.B.&M.	no measurement
Noble	SW$\frac{1}{4}$ SE$\frac{1}{4}$ Sec. 3, T22N, R14E, M.D.B.&M.	0.03
Noble	SW$\frac{1}{4}$ SE$\frac{1}{4}$ Sec. 2, T22N, R14E, M.D.B.&M.	0.02
Mapes	SE$\frac{1}{4}$ SW$\frac{1}{4}$ Sec.11, T23N, R14E, M.D.B.&M.	0.10
Mapes Field	SW$\frac{1}{4}$ NE$\frac{1}{4}$ Sec.24, T23N, R14E, M.D.B.&M.	0.10
L. D. Maddalena	N$\frac{1}{2}$ Sec.15, T23N, R15E, M.D.B.&M.	0.04
Sam Bonta	Near SE corner of Sec. 17, T23N, R15E, M.D.B.&M.	no measurement
A. D. Maddalena	N$\frac{1}{2}$ Sec.20, T23N, R15E, M.D.B.&M.	no measurement
Laffranchini	E$\frac{1}{2}$ NE$\frac{1}{4}$ Sec.13, T23N, R15E, M.D.B.&M.	no measurement
Trosi House	NW$\frac{1}{4}$ SW$\frac{1}{4}$ Sec.17, T23N, R16E, M.D.B.&M.	0.10
Trosi Hill	NE$\frac{1}{4}$ SW$\frac{1}{4}$ Sec. 8, T23N, R16E, M.D.B.&M.	0.05
Dotta	S$\frac{1}{2}$ Sec.21, T23N, R16E, M.D.B.&M.	0.03
R. E. Guscetti	SE$\frac{1}{4}$ NW$\frac{1}{4}$ Sec.27, T22N, R16E, M.D.B.&M.	0.10
W. H. Guscetti	NW$\frac{1}{4}$ NW$\frac{1}{4}$ Sec.33, T22N, R16E, M.D.B.&M.	0.02
Cobb	SW$\frac{1}{4}$ SW$\frac{1}{4}$ Sec.18, T21N, R16E, M.D.B.&M.	0.10

ARTESIAN WELLS

Sierra Valley appears to have been formed by the same cycle of physical changes in the earths crust which geologists agree has been responsible for a large number of the mountain valleys east of the Sierra Nevada Divide. The valley was apparently formed by certain movements of the earth's crust which left a basin without a low level outlet. The basin became filled with water and existed as part of an inland lake or sea for many years as is evidenced by faint shorelines still visible on

some of the bare hills surrounding the valley.

It was during the period of submergence that the conditions conducive to artesian water was created by the alternate deposition of coarse and fine layers of material on the lake bottom. Near the hills the deposits of material took place more rapidly and consisted of coarser particles than the more central portions of the basin.

As a result the alternate layers of material became more or less saucer shaped and when the lake was finally drained by water cutting down the outlet level there existed a condition of alternate fine and coarse layers of material with the coarse layers having open ends near the hills. As water percolated into the open ended coarse strata it seeped under the impervious layers in the valley and built up a hydrostatic pressure under them which when tapped by wells produces artesian flow.

Flowing artesian water has been developed over almost the entire floor of Sierra Valley except in a portion of the area west of the irrigated land lying west of the Middle Fork of Feather River. The wells average 400 feet or more in depth and vary in flow from a fraction of a miners inch to flows of 0.20 cubic foot per second or more. The wells in the lower portion of the valley generally produce warm and in some cases boiling hot water. The water from most of the wells is charged with a certain amount of mineral salts but not enough to make the water unsuitable for domestic purposes.

Practically all of the ranches located on the valley floor depend upon flowing wells for domestic and stock water throughout the year. Very few of the wells produce sufficient water to be of material use for irrigation purposes.

RESERVOIRS

There are large areas in the watershed of the Middle Fork of

Feather River above Beckwith from which normally there is considerable run-off too early in the spring to be of material use for general irrigation purposes at the time of its occurrence. This early surplus is available for storage purposes, where suitable reservoir sites can be found, but to date very little use has been made of this surplus in this area. Where the water is stored it is generally held for use until the natural flow becomes inadequate to supply the needs of the lands served by the reservoirs.

The description of the storage basins in the stream system follows:

1. Last Chance Lake is a natural depression located mostly in Section 9, T22N, R15E, M.D.B.&M., on a branch of the East Channel of Last Chance Creek. The lake is filled from the creek during the freshet season and is held full as late as the flow in the creek permits. A small embankment has been constructed across the outlet of the lake to spread the flood water over as much land as possible adjoining the basin. The bed of the lake is used for pasture as the water recedes. The capacity of the lake was estimated as 350 acre feet.

2. Ede Lake is a natural depression located mostly in the NW$\frac{1}{4}$ Section 28, T22N, R15E, M.D.B.&M., on the main channel of Smithneck Creek below the junction of the three branches of the creek. The lake is filled from the creek during the freshet season and is held full as late as the flow in the creek permits. A ditch, described as Diversion 119, has been constructed to divert a portion of the low flow through the lake in a northerly direction for use on the lands lying north of the main outlet from the basin. The capacity of the lake was estimated as 140 acre feet. The use of water in the lake has been described under Diversion 118.

3. The Noble Reservoir is located in the SW$\frac{1}{4}$ SW$\frac{1}{4}$ Section 1,

SE$\frac{1}{4}$ SE$\frac{1}{4}$ Section 2, NE$\frac{1}{4}$ NE$\frac{1}{4}$ Section 11 and NW$\frac{1}{4}$ NW$\frac{1}{4}$ Section 12, T22N, R14E, M.D.B.&M. An earth levee 12 feet in height has been constructed across the bottom of a flat draw below its junction with several tributary feeders. The reservoir thus formed covers an area of approximately 80 acres and has an estimated capacity of 200 acre feet. The use of the water in the reservoir has hereinbefore been described under Diversion 263.

4. The Mapes Reservoir is located in the E$\frac{1}{2}$ of NE$\frac{1}{4}$ Section 24, T23N, R14E, M.D.B.&M., and the W$\frac{1}{2}$ of NW$\frac{1}{4}$ and NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 19, T23N, R15E, M.D.B.&M.

An earth embankment from 3 to 8 feet in height has been constructed across the lower portions of two adjoining basins in the Mapes Meadow to form a shallow reservoir which intercepts the flood flow and drainage occurring in the streams which supply Diversion 268 with water. A concrete spillway with horizontal flashboards is used at the lowest point in the embankment to release surplus water. Two outlet gates in the embankment release the water for irrigation. The reservoir floods approximately 40 acres and has an estimated capacity of 80 acre feet.

5. The Rees Reservoir is located in the NE$\frac{1}{4}$ NW$\frac{1}{4}$ Section 18 and the SE$\frac{1}{4}$ SW$\frac{1}{4}$ Section 7 both in T21N, R16E, M.D.B.&M. An earth embankment with a maximum height of about 12 feet and a length of about 1500 feet is used to form the reservoir which has a maximum flooded area of about 12 acres and a capacity of about 50 acre feet. Water to fill the reservoir is diverted from Smithneck Creek at Diversion 87.

METHODS OF IRRIGATION

Three methods of irrigation are in general practice for field crops served with water from the Middle Fork of Feather River and its tributaries above Beckwith, namely, subirrigation, wild flooding and checks. The furrow method of irrigation is also used to a limited extent in applying water to the gardens and orchards.

The furrow method of irrigation consists of running water from a main ditch into a lateral that feeds a number of furrows between the rows of trees or plants.

Subirrigation is limited largely to the tracts peculiarly adapted to this method by the surface soil and subsoil conditions. The surface soil must be reasonably porous to permit rapid lateral movement of water and the subsoil should be impervious, reasonably close to the surface, and comparatively level. Advantage is taken of natural sloughs, ponds and old stream channels as well as of artificial ditches in applying the water by this method. The rate of seepage from the channels, ponds, and ditches limits the rate of utilization of water.

Subirrigation is usually practiced where the soil texture will permit, due to the relative cheapness compared with other methods, both in initial cost of preparation of the irrigation system and in field supervision of the application of the water. The largest tracts where subirrigation is successfully practiced are on portions of Smithneck Creek above and immediately below Loyalton, Antelope Creek and portions of the area irrigated by Lemon Creek and Town Creek. Several other of the streams in the valley also have a limited amount of subirrigated land in their basins.

On a major portion of the area irrigated from the Middle Fork

of Feather River and its tributaries above Beckwith, the water is applied by wild flooding. Under this method, the water is diverted from the main supply ditch which usually runs along the high contour of the land, by numerous take-outs, in most instances made by shovel cuts in the ditch bank, and is allowed to spread at random over the area lying below the ditch. Large irrigation heads are required on the more porous soils and on uneven ground in order to flush the water over the land without excessive waste from deep percolation.

On the lower lands lying along the stream channels a modification of the wild flooding method is used. Low dams are built to back water over the lower areas so that a portion of the land is irrigated from inundation with backwater and a portion is subirrigated from the shallow ponds.

Irrigation by checks, either contour or rectangular, is not practiced to any extent in the area as this method of irrigation is generally limited to land planted to alfalfa, of which there is very little grown in the valley.

Rotation in the use of water is quite generally used on the better drained lands of the area. The rotation may be confined to the land on one property, or may be by agreement among two or more water users on the same ditch or stream. Most of the rotation, however, is without order or system as the individual water user ordinarily diverts water and turns it off without regard to the schedule followed by other water users.

A number of instances of apparently flagrant waste of water occurred during the 1936 irrigation season. The waste generally took the form of diverting water greatly in excess of the continuous flow

requirements of the land and leaving the dams in, the major portion of the irrigating season. The surplus water diverted was compelled to find its way back to the stream by following old sloughs and channels which often by-passed the water around diversions of other water users. At times of freshet flows in the streams in Sierra Valley a large portion of the lower ground is naturally inundated with flood water.

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. 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 various channels and sloughs into which Last Chance Creek, Smithneck Creek and the Middle Fork of Feather River branch and converge in their respective courses through Sierra Valley run almost entirely through irrigated land. The channels of the various streams are for the most part shallow and occupy the troughs of the basins through which they flow. The general conditions as described above of the various streams running through the irrigated land in the troughs of their respective basins is conducive to the collection of return and drainage water. During periods of high water, or of approximately normal flow, the amounts of water thus returned would naturally be considerable. The sections of the stream channels traversing mountainous portions of the basin appear to have only nominal losses.

Observations and measurements were made on the channels where possible and data were collected to indicate the extent of the accretions

and losses in various sections.

1. Last Chance Creek The upper portion of Last Chance Creek above the mouth of Frenchman Creek passes through alternate sections of irrigated land and mountain canyon. The following observations were made of the stream flow on this portion of the stream on June 22, 1936.

Place of Observation	Cubic feet per second
Water available above Alessio Ramelli Ranch (Spring channels and Creek)	0.80
Water available above Galeppi Upper Dam	0.30
Water available above Galeppi Lower Dam	2.00
Water available above Frenchman Creek	1.90
Water available in Frenchman Creek at mouth	3.30
Water available at recorder station	3.80

The above observations indicate a loss of approximately 1.40 cubic feet per second in the canyon between the mouth of Frenchman Creek and the irrigated land above Vinton. The remainder of the channel apparently receives more water from springs along its course than is lost.

The portion of Last Chance Creek between the recorder station and the channel division is not subject to surface return but apparently receives considerable water from seepage during the irrigating season. Subsequent to the irrigation season there is a nominal loss.

The following observations were made on June 15, 1936.

Place of Observation	Cubic feet per second
Total flow in Creek above recorder station	8.30
Diversion by F. P. Giudici Ditches	7.80
Flow in Creek below F. P. Giudici Lower Dam	0.50
Diversion by A. E. Giudici Ditches	3.50
Flow in Creek below A. E. Giudici Upper Dam	1.10
Diversion by Guy Sobrio Ditches	0.80

Flow in creek at division	0.40

A second set of observations were made on July 16, 1936 with all diversions closed but with the F. P. Giudici Lower Dam and the A. E. Giudici Upper Dam full.

Place of Observation	Cubic feet per second
Total flow in dreek above recorder station	1.00
Passing F. P. Giudici Lower Dam	0.90
Passing A. E. Giudici Upper Dam	0.80

Below the channel division, the channels of Last Chance Creek are shallow with many branch sloughs diverging from and converging with the main water course. Under these conditions very little seepage returns to the channels, but heavy return flows occur in the various sloughs whenever there are adequate irrigation heads available.

2. Smithneck Creek Smithneck Creek, after entering the irrigated land above Loyalton, flows through three miles of partly irrigated and partly nonirrigated land. The irrigated land has for the most part a decided slope either back to the Smithneck Creek Channel or toward the Bear Valley Creek Channel which is tributary to Smithneck Creek about one mile above Loyalton. The sections of creek channel which pass through the irrigated land appear to receive considerable return flow when the land is saturated with water, but at other times appear to sustain some channel loss even though some seepage water from springs is received by the channel below the Loyalton water supply headworks.

The East and Middle Branches of the creek below the Town of Loyalton run entirely through irrigated land. The channels are shallow with numerous interlacing sloughs in which return water collects and finally returns to the creek. The West Branch of the creek has a somewhat

deeper channel but runs for only a portion of its course through irrigated land. Sloughs return the drainage water to the channel but the location of the channel away from the irrigated land prevents any accretion from direct seepage except in the upper portion.

3. Middle Fork of Feather River The Middle Fork of Feather River Channel is shallow and in many places almost obliterated. Under these conditions large quantities of water spread over the flat lowlands along the channel where it is shallow and return by way of sloughs when the channel again becomes more pronounced. Losses in the channel are largely due to the effect of spreading where there is not adequate channel capacity. The channel occupies the trough of the basin and apparently is not affected materially by percolation.

The tributary streams which make up the headwaters of the Middle Fork of Feather River all run through their irrigated flood plains after leaving their canyons and appear to have only a nominal loss. Return water from irrigation along their courses either returns to the stream from which the water is diverted or finds its way into the river by way of an adjoining drainage system.

Observations were made during the period that the Little Truckee Ditch was open in 1936 to determine the losses in delivering the foreign water to the Town and Perry Creek division. No direct measurement of the loss was made but there appeared to be a shortage of approximately 4.00 cubic feet per second at the division for flows in the Little Truckee Ditch of 50.0 cubic feet per second or more. Below 50.0 cubic feet per second the shortage gradually dropped to about 1.00 cubic foot per second for flows of from 3.0 to 6.0 cubic feet per second.

2. CONVEYANCE LOSSES AND DRAINAGE FLOW

The major portion of the diversion systems on the Middle Fork

of Feather River and its tributaries above Beckwith are less than one-fourth mile in length from their points of diversion down to the irrigated areas respectively served thereunder. In most of the systems the irrigated areas extend up to the intakes of the diversions. 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 diversions, which are followed by conduits more than one-fourth mile in length down to the boundary of the irrigated land served thereunder, on which observations were made in 1936 are as follows:

Group 1 includes those diversions that have material conveyance losses, but the principal losses occur near the head of the conduit and return directly to the stream without appreciable diminution. The following diversions are in this class:

Diversion Number	Name of Ditch	Length	Discharge in C.F.S. Upper Station	Discharge in C.F.S. Lower Station
21	F.P.Giudici, Upper	0.8	No measurement	
77	Power	0.6	No measurement	
180	Freeman	0.6	1.07	0.92

The portion of ditch considered on each of the above conduits lies close to the stream from which it diverts and the loss therefrom returns directly to the stream without appreciable diminution. The place of measurement on these conduits during the 1936 season was at or near a point where the course of the conduit began to diverge from the course of the stream channel. The selection of such measuring stations took care of the principal conveyance losses in providing allotments of water for these conduits with but little adverse resultant effect on the flow available

for lower users. The losses between the selected place of measurement and of the place of use was nominal for these conduits.

Group 2 includes those diversions that have material conveyance losses and are situated so that there is no apparent return to the stream.

Diversion Number	Name of Ditch	Length Miles	Date of Measurement	Discharge in C.F.S. Upper Station	Discharge in C.F.S. Lower Station
74	Parker	1.5		No Measurement	
75	Caccini	0.5		No Measurement	
84	Turner East	0.6	6/26	0.90	0.80
148	Adams	0.8	6/23	4.50	4.07
155	Amodei	1.5	9/16	3.24	2.38

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 much greater than the discharge at the time of measurement. Greater losses are to be expected with increased diversions. No measurement was made in some instances due to the stream failing before the measurement could be made.

A large number of the ditches in the stream system are susceptible of an accretion to flow due to drainage from other ditches. No effort has been made to catalogue such ditches.

DUTY OF WATER

The use of water from the Middle Fork of Feather River and its tributaries above Beckwith may be divided into two classes; one, the use for general irrigation purposes and the other use for domestic, municipal and industrial purposes. The use for domestic purposes includes household, fire protection, stock watering and garden irrigation.

Most of the water diverted from the Middle Fork of Feather River and its tributaries from the time of commencement of the investigation in 1936 until the meadow hay crops were matured was utilized for general irrigation purposes. The opening and closing dates for general irrigation under the various ditches were noted and have been tabulated in Table 84. The use of water subsequent to the closing of the general irrigation season was primarily for domestic purposes except on Smithneck, Webber, Hamlin, Miller and Turner Creeks, where a limited amount of irrigation water was available throughout the summer.

Separate studies have been made of the requirements of water for general irrigation purposes and for domestic purposes of the various lands included in the adjudication.

1. GENERAL WATER REQUIREMENTS

Records of diversion on most of the irrigation systems on the Middle Fork of Feather River and its tributaries were obtained from about April 25 to September 30, 1936. The discharges of the various diversions and groups of diversions have been tabulated in Tables 10, 12, 13, 14, 17, 24, 26, 31, 33, and 36 to 81, inclusive. From that portion of these records covering use during the general irrigation season, together with the acreages irrigated as determined by survey, the "duties of water", under the practice in 1936 of the respective systems has been computed. The

"duty of water", as here used, was computed by dividing the total area of irrigated land served under a diversion by the continuous flow equivalent of the gross amount of water diverted through the systems serving that unit during the period of general irrigation. Where the water was measured at or near the headgates, the "gross duty of water" was obtained.

The results of the duty of water computations expressed in acres irrigated per cubic foot per second, have been tabulated in Table 84. There is also shown in the same table the number of acre feet per acre used on each tract unit throughout the general irrigation season. Due to the impracticability of segregating the waters conveyed to the several tracts by ditches serving more than one ranch, or where several ranches were irrigated as a unit, these tracts have been combined, as indicated in Table 84, and treated as a unit in the computations relating to the use of water.

The effectiveness and results of irrigation from the Middle Fork of Feather River stream system were noted during the investigation and crop data were collected after the harvest season. The results of the crops harvested on typical ranches have been tabulated in Table 83.

The actual water requirements of crops determined by evaporation and plant transpiration will undoubtedly be higher after about June 1st, than prior thereto, due to higher temperature, lower humidity and more leaf surface exposed to transpiration, but water applied to the land early in the season may be held in storage in the pore space of the soil by capillary action, and be available for the plant roots, as required, later in the season. For this reason the land devoted to the production of meadow grasses is ordinarily filled with water early in the season, as soon as the water supply is available, and the soil is kept filled until the grass

is matured if the runoff will so allow. Alfalfa and grain crops, however, will stand a saturated soil condition for only a short time without injury.

In making a study of the water requirements of the lands irrigated from Last Chance Creek the area naturally divides itself into four units as follows:

1. Upper Last Chance Creek
2. Last Chance Creek between mouth and division
3. Last Chance Creek between division and Roberti property on North Channel, and Middle Fork of Feather River on East Channel.
4. North Channel of Last Chance Creek below Huntley Ranch.

The upper Last Chance Creek area is isolated from the other areas on the creek and is used mainly for pasture during the spring and summer months. However, a portion of the area is ordinarily cut for hay. The amounts of water diverted on the area were variable due to only occasional attention by the owner, but by comparing the observed diversions and crop yields and considering the supplementary water derived from springs and seepage, an average water requirement would appear to be proper for the area. Such a duty of water has been established in similar mountain areas as one cubic foot per second to eighty acres of irrigated land.

For the second area listed above, it will be noted from Table 84 that two duties of water have been computed, using different combinations of ditches. The observed return flow from the upper combination as tabulated in Table 51 appears excessive, whereas the return flow of the second combination appeared ample to insure proper irrigation of the area served. Similar soil conditions over this entire area and similar crop yields also point toward the adequacy of the higher duty.

For the third area, two combinations of ditches were used for computing a duty of water. The first combination includes the area from the channel division down to the new state highway, and the second combination includes the area from the new highway down to the Laffranchini Road. The upper area appeared to have ample water for its irrigation requirements with considerable return flow, as practically all of the water available was diverted in this area. The lower area did not receive sufficient water for its requirements during most of the period considered. As a result of the excessive return flow from the upper area and the somewhat deficient water supply for the lower area, it appears that the real requirement lies between the two duties as computed in Table 84. A similar duty would appear to apply to the more sandy areas lying below the Laffranchini Road.

The area embraced in the fourth unit received very little water in 1936 during the period of the investigation, but due to the heavier texture of the soil and the fact that the land all lies in the bottom of the stream flood plain it appears that a somewhat higher duty as found elsewhere under similar conditions would be proper. An average duty of water for this type of area is about one cubic foot per second to one hundred acres.

Smithneck Creek naturally divides into two distinct units as follows:

1. Smithneck and Bear Valley Creeks above Loyalton
2. Smithneck Creek below Loyalton

The area comprising the first unit is largely located on the detritus fans of the two creeks, although portions of the area near Loyalton might be classified as bottom land. The upper portion of the area is

uneven which makes it desirable to use comparatively large irrigation heads to secure a proper spread of the water. As a result, it was impractical to get a measure of the water requirement of the land from direct observation of the gross diversions. However, it was possible to measure the net consumption of water in the area between the two upper recorder stations and the recorder station at Loyalton as shown in Table 84. By reference to studies made on other streams of similar characteristics in mountain valleys in Northeastern California it appears that the return flow from meadow grass irrigation is ordinarily approximately one-third of the gross diversions, where a proper spread and penetration of irrigation water has been obtained, i. e., it is necessary to divert and apply to meadow grass about 50 percent more water than is actually consumed in order to secure an adequate and proper irrigation. Such additional water is utilized as a vehicle for spreading. If such an allowance is made for a spreading head over and above the consumptive duty on upper Smithneck Creek, the resultant gross duty of water is calculated to be one cubic foot per second to about 80 acres of irrigated land.

The area below Loyalton is largely a more or less level flood plain sloping gently toward the outlet of the valley. The soil type is of a heavier texture than that observed above Loyalton and the irrigated land is largely contiguous so that the water may spread from ranch to ranch without wasting out of the area. A duty of water of one cubic foot per second to about ninety acres of irrigated land was computed for a portion of this area as shown in Table 84. This duty appears a proper one for the whole area in the light of similar soil conditions and similar types of crops grown.

A study of the duty of water on the streams in the Sattley area,

tributary to the West Side Canal was made as shown in Table 84. The method of irrigation in the major part of this area did not lend itself readily to a computation of gross duty as excessive irrigation heads are commonly used to simplify the spreading of the water. Consequently the study was largely confined to consumptive use. The average consumptive use of water in the Hamlin and Miller creek areas above the West Side Canal was found to be approximately one cubic foot per second to one hundred twenty acres of irrigated land. A somewhat lower duty was found for a portion of the area due to obvious waste in the use thereon. The same consumptive duty was also found to apply to most of the area above the mounds on Turner Creek. By applying the information discussed above under Smithneck Creek, it appears that a proper gross duty for the areas is one cubic foot per second to about eighty acres. A study of gross use made on Turner Creek below the mounds and on the West Side Canal below the mounds indicates similar water requirements for those areas.

The duty of water on the Miller-Dellera, Amodei, Johnson and Adams Ditches on Webber Creek has been fixed by decree as approximately one cubic foot per second to fifty-five acres. The requirements for the remaining area under Town and Perry Creeks down to and including the George A. Henderson lands apparently grades from a maximum of one cubic foot per second to sixty acres to one cubic foot per second to eighty acres depending upon the soil conditions, i. e., above Sierraville where the soil is deep and somewhat porous the lower duty would apply but below Sierraville the duty would increase due to more impervious soils. The requirements on the Battista Pasquetti and R. L. Henderson lands were one cubic foot per second to about ninety acres, and the use of water on the remaining area

downstream was one cubic foot per second to one hundred acres.

2. DOMESTIC REQUIREMENTS

The dry-weather flow of Last Chance Creek is relied upon for stock water purposes down to the lands of Elsie Golden and M. B. Humphrey below the channel division. The lower area is supplied with domestic and stock water from wells.

All of the dry-weather flow of Smithneck Creek, except about 0.35 cubic foot per second of stock water in the West Branch on the lands of Maxim Dory, is utilized above the town of Loyalton for domestic purposes on the ranches, for industrial purposes by the Clover Valley Lumber Company, and for municipal purposes in the Town of Loyalton.

The dry-weather flows of Webber, Town and Perry Creeks are utilized for domestic and stock-watering purposes down to the home ranch of F. E. Humphrey, Jr. A limited amount of irrigation water is also available from these streams throughout the summer in the upper areas under decreed rights.

Hamlin and Miller Creeks supply domestic water to the West Side Canal down to the lands of E. F. Ghidossi. A limited amount of irrigation water is available in these streams for the area situated above the mounds.

The dry-weather flow of Turner Creek supplies some irrigation water in the Sattley area and stock water down to the lands of Isolina Pasquetti.

Fletcher Creek supplies 0.75 cubic foot per second for domestic and industrial purposes at the mill in Calpine and domestic water through the lands of Samuel Devine. The Fletcher Spring Channel supplies domestic water to the lands of Davies-Johnson Lumber Company and to the lands of

Samuel Devine. Lemon Creek and Blinman Spring supply about 0.60 cubic foot per second of water for domestic and stockwatering purposes on the Anna B. Miller Lemon Creek Ranch.

The flows of Antelope, Craycroft and Staverville Creeks and other small streams entirely fail during the dry-weather season.

3. DISCUSSION

Water shortage for general irrigation purposes was noted in 1936 after May 15 on Last Chance, Smithneck, Staverville, Craycroft, and Antelope Creeks. The flows of Lemon and Fletcher Creeks were adequate to serve the areas thereunder until about June 1st. No shortage was noted for the remaining area for general irrigation in Sierra Valley until after the haying season. The foreign water conveyed into the stream system from Little Truckee River was important in the area along the main thread of the river.

The dry-weather flows of all sources in Sierra Valley were adequate in 1936 to meet all domestic requirements normally dependent thereon.

TABLES

TABLE 1

DESCRIPTION OF AREAS IRRIGATED FROM MIDDLE FORK OF FEATHER RIVER AND ITS TRIBUTARIES

H. G. Adams (Map Sheet 6)

40.0 acres in NE¼ SW¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
120.0 acres - total. (Mounds Ranch)

(Map Sheet 6)

39.4 acres in SE¼ SE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
38.4 acres in NE¼ NE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
157.8 acres - total. (Home Ranch)

Annie Dora Adams (Map Sheet 6)

2.9 acres in SE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
2.9 acres - total. (Sierraville lot)

John Amodei (Map Sheet 6)

32.4 acres in SE¼ NE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
21.4 acres in SE¼ NW¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
39.6 acres in NE¼ SE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
36.9 acres in NW¼ SE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
15.5 acres in SW¼ SE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
9.5 acres in SE¼ SE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
18.9 acres in NE¼ SW¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
4.9 acres in SE¼ SW¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
219.1 acres - total.

Henry Albini (Map Sheets 3 and 7)

40.0 acres in SE¼ NE¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
31.6 acres in Lot 2 of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
8.9 acres in SE¼ NE¼ of Section 24, T. 22 N., R. 14 E., M.D.B.&M.
4.7 acres in NE¼ SE¼ of Section 24, T. 22 N., R. 14 E., M.D.B.&M.
165.4 acres - total.

Fred ~~N.~~ P. Alpers (Map Sheet 5)

15.5 acres in W½ Lot 2 NW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
34.3 acres in W½ Lot 1 NW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
25.0 acres in E½ Lot 1 NW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd)

Fred A. Alpers (Map Sheet 5) (Cont'd)

39.9 acres in NE¼ SW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
34.4 acres in N½ Lot 2 SW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
34.4 acres in S½ Lot 2 SW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
8.1 acres in NW¼ SE¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
22.2 acres in SW¼ SE¼ of Section 6, T. 20 N., R. 15 E., M.D.B.&M.
29.2 acres in NW¼ NE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
39.5 acres in SW¼ NE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
15.0 acres in SE¼ NE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
22.0 acres in NE¼ SE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
39.1 acres in NW¼ SE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
37.0 acres in SW¼ SE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
34.0 acres in SE¼ SE¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
469.6 acres - total.

Fred Berry (Map Sheets 3 and 7)

31.3 acres in NE¼ SE¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
34.9 acres in NW¼ SE¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
38.0 acres in SW¼ SE¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
28.6 acres in SE¼ SE¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
30.7 acres in NE¼ SW¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
20.5 acres in NW¼ SW¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
20.7 acres in SW¼ SW¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
27.3 acres in SE¼ SW¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
232.0 acres - total.

J. M. Binninger, et al. (Map Sheet 6)

39.8 acres in NE¼ NW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
39.6 acres in SE¼ NW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
24.6 acres in NE¼ SW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
13.0 acres in SE¼ SW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
117.0 acres - total. (Mounds Ranch)

Estate of Amanda T. Blaisdell, c/o J. G. Blaisdell (Map Sheet 6)

1.3 acres in SW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
1.3 acres - total.

Amy Blatchley (Map Sheet 6)

0.3 acre in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
0.3 acre - total.

Cordelia Blatcheley (Map Sheet 6)

0.7 acre in SE¼ SW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.7 acre - total.

TABLE 1 (Cont'd)

J. A. and S. A. Bonta (Map Sheets 2 and 3)

1.2 acres in NW¼ SE¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
39.5 acres in NE¼ SW¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
10.9 acres in SE¼ NW¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
25.0 acres in SW¼ NW¼ of Section 34, T. 23 N., R. 15 E., M.D.B.&M.
29.6 acres in SE¼ NE¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
32.2 acres in SW¼ NE¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
26.3 acres in SE¼ SE¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
36.6 acres in NW¼ SE¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
33.0 acres in NE¼ SW¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
30.4 acres in NW¼ SW¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
23.1 acres in SE¼ NW¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
13.6 acres in SW¼ NW¼ of Section 33, T. 23 N., R. 15 E., M.D.B.&M.
2.0 acres in NE¼ NE¼ of Section 4, T. 22 N., R. 15 E., M.D.B.&M.
463.4 acres - total. (Last Chance Ranch)

Sam Bonta (Map Sheet 2)

1.5 acres in SW¼ SW¼ of Section 16, T. 23 N., R. 14 E., M.D.B.&M.
20.0 acres in NE¼ NE¼ of Section 20, T. 23 N., R. 14 E., M.D.B.&M.
38.5 acres in SE¼ NE¼ of Section 20, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 20, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 20, T. 23 N., R. 14 E., M.D.B.&M.
12.0 acres in NW¼ NE¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in SW¼ NE¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
30.0 acres in SE¼ NW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
39.5 acres in SW¼ NW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
24.5 acres in NW¼ NW¼ of Section 21, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 22, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in NW¼ NW¼ of Section 27, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in NE¼ NE¼ of Section 28, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in NW¼ NE¼ of Section 28, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in NE¼ NW¼ of Section 28, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in NW¼ NW¼ of Section 28, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in NE¼ NE¼ of Section 29, T. 23 N., R. 14 E., M.D.B.&M.
832.0 acres - total.

Francesca G. Bony, et al. (Map Sheets 5 and 6)

40.0 acres in NE¼ NW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
34.5 acres in N½ Lot 2 NW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
34.5 acres in S½ Lot 2 NW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd)

Francesca G. Bony, et al. (Map Sheets 5 and 6) (Cont'd)

40.0 acres in SE¼ NW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
35.5 acres in N½ Lot 2 SW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
31.2 acres in S½ Lot 2 SW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 7, T. 20 N., R. 15 E., M.D.B.&M.
16.3 acres in NE¼ NE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
23.7 acres in SE¼ NE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
9.6 acres in NE¼ SW¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
38.8 acres in NE¼ SE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
39.5 acres in NW¼ SE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
23.5 acres in SW¼ SE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
33.2 acres in SE¼ SE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
480.3 acres - total.

John Caccini (Map Sheet 4)

2.0 acres in NE¼ SE¼ of Section 7, T. 21 N., R. 16 E., M.D.B.&M.
30.0 acres in SE¼ SE¼ of Section 7, T. 21 N., R. 16 E., M.D.B.&M.
32.8 acres in NE¼ NE¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
3.1 acres in SE¼ NE¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
67.9 acres - total.

C. Roy and P. L. Carmichael (Map Sheet 7)

5.7 acres in SE¼ SE¼ of Section 26, T. 23 N., R. 14 E., M.D.B.&M.
3.9 acres in SW¼ SE¼ of Section 26, T. 23 N., R. 14 E., M.D.B.&M.
31.4 acres in NE¼ NE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
39.8 acres in NW¼ NE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
5.1 acres in NE¼ NW¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
85.9 acres - total.

Frank Carmichael (Map Sheets 2 and 7)

5.0 acres in SE¼ SW¼ of Section 11, T. 23 N., R. 14 E., M.D.B.&M.
11.0 acres in SW¼ SE¼ of Section 11, T. 23 N., R. 14 E., M.D.B.&M.
0.5 acres in SE¼ SE¼ of Section 11, T. 23 N., R. 14 E., M.D.B.&M.
26.5 acres in NE¼ NE¼ of Section 14, T. 23 N., R. 14 E., M.D.B.&M.
16.0 acres in NW¼ NE¼ of Section 14, T. 23 N., R. 14 E., M.D.B.&M.
18.0 acres in SE¼ NE¼ of Section 14, T. 23 N., R. 14 E., M.D.B.&M.
12.0 acres in NE¼ SE¼ of Section 14, T. 23 N., R. 14 E., M.D.B.&M.
12.0 acres in SE¼ SE¼ of Section 14, T. 23 N., R. 14 E., M.D.B.&M.
11.0 acres in NW¼ NW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
28.0 acres in SW¼ NW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
4.5 acres in SE¼ NW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
32.0 acres in NE¼ SW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
38.0 acres in SE¼ SW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
15.0 acres in SW¼ SW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
15.0 acres in NW¼ SW¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
28.0 acres in NE¼ SE¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
35.0 acres in SE¼ SE¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 13, T. 23 N., R. 14 E., M.D.B.&M.

Frank Carmichael (Cont'd)

26.0	acres in	NW¼ SE¼	of Section 13,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
18.0	acres in	NE¼ NE¼	of Section 23,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
9.5	acres in	SE¼ NE¼	of Section 23,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
16.0	acres in	NE¼ NE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
22.0	acres in	SE¼ NE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
20.0	acres in	SW¼ NE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
37.0	acres in	NW¼ NE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
33.0	acres in	NE¼ NW¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
26.0	acres in	SE¼ NW¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
23.0	acres in	SW¼ NW¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
28.0	acres in	NW¼ NW¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
19.0	acres in	NE¼ SW¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
9.0	acres in	SE¼ SW¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
37.0	acres in	NE¼ SE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SE¼ SE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
23.0	acres in	SW¼ SE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NW¼ SE¼	of Section 24,	T. 23 N.,	R. 14 E.,	M.D.B.&M.
17.0	acres in	NW¼ SW¼	of Section 18,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
27.0	acres in	SW¼ SW¼	of Section 18,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
3.5	acres in	SE¼ SW¼	of Section 18,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
33.0	acres in	NE¼ NW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
31.0	acres in	SW¼ NW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
32.0	acres in	NW¼ NW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
35.0	acres in	NE¼ SW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
39.0	acres in	SE¼ SW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
20.0	acres in	SW¼ SW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
36.0	acres in	NW¼ SW¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	NW¼ SE¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
6.0	acres in	NW¼ NE¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
38.0	acres in	SW¼ NE¼	of Section 19,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
1211.5	acres - total.					

J. H. Cavitt (Map Sheet 6)

40.0	acres in	NW¼ SE¼	of Section 3,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
37.9	acres in	NE¼ SW¼	of Section 3,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
38.2	acres in	NW¼ SW¼	of Section 3,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
39.8	acres in	SW¼ SW¼	of Section 3,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
1.4	acres in	SW¼ NE¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
31.3	acres in	NE¼ SE¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
38.7	acres in	NW¼ SE¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
37.5	acres in	SE¼ SE¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
4.5	acres in	NE¼ SW¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
17.0	acres in	SE¼ SW¼	of Section 4,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
4.6	acres in	NE¼ NW¼	of Section 9,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
330.9	acres - total.					

Albert B. Church (Map Sheet 6)

37.0	acres in	NE¼ SE¼	of Section 33,	T. 21 N.,	R. 14 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

Albert B. Church (Cont'd)

32.0 acres in NW¼ SE¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
25.5 acres in SW¼ SE¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
39.6 acres in SE¼ SE¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
134.1 acres - total. (Mounds Ranch)

12.6 acres in SE¼ NW¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
35.0 acres in SW¼ NW¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
37.3 acres in SE¼ NE¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
14.8 acres in SW¼ NE¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
6.8 acres in NE¼ SE¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
0.8 acre in NW¼ SE¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
107.3 acres - total. (Sattley Ranch)

40.0 acres in NE¼ NE¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
37.5 acres in NW¼ NW¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.
7.4 acres in NE¼ NE¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
204.9 acres - total. (Isaac Church Ranch)

Clover Valley Lumber Company (Map Sheet 4)

7.0 acres in SW¼ NW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
39.0 acres in SW¼ SW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
12.6 acres in NW¼ NW¼ of Section 19, T. 21 N., R. 16 E., M.D.B.&M.
20.0 acres in SE¼ NE¼ of Section 13, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 13, T. 21 N., R. 15 E., M.D.B.&M.
19.5 acres in SE¼ SE¼ of Section 13, T. 21 N., R. 15 E., M.D.B.&M.
2.6 acres in NW¼ SE¼ of Section 13, T. 21 N., R. 15 E., M.D.B.&M.
180.7 acres - total.

Elmer Colt (Map Sheet 6)

0.4 acre in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
0.4 acre - total.

Suzette Copren (Map Sheet 6)

9.0 acres in SW¼ NE¼ of Section 31, T. 21 N., R. 14 E., M.D.B.&M.
3.0 acres in NW¼ SE¼ of Section 31, T. 21 N., R. 14 E., M.D.B.&M.
12.0 acres - total.

W. S. Copren (Map Sheet 6)

0.1 acre in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
0.1 acre - total.

TABLE 1 (Cont'd)

Davies-Johnson Lumber Company (Map Sheet 6)

2.4 acres in NW¼ NE¼ of Section 19, T. 21 N., R. 14 E., M.D.B.&M.
19.6 acres in SW¼ NE¼ of Section 19, T. 21 N., R. 14 E., M.D.B.&M.
22.4 acres in SE¼ NE¼ of Section 19, T. 21 N., R. 14 E., M.D.B.&M.
31.1 acres in NE¼ SE¼ of Section 19, T. 21 N., R. 14 E., M.D.B.&M.
18.0 acres in NW¼ SE¼ of Section 19, T. 21 N., R. 14 E., M.D.B.&M.
16.7 acres in SW¼ NW¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
24.6 acres in NW¼ SW¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
134.8 acres - total.

J. Deerwater (Map Sheet 6)

0.6 acre in SW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.6 acre - total.

Kelso N. Dellera (Map Sheet 5)

29.8 acres in NE¼ NW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
33.9 acres in N½ Lot 2 NW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
29.3 acres in S½ Lot 2 NW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
21.8 acres in SE¼ NW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
34.4 acres in N½ Lot 2 SW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
32.4 acres in S½ Lot 2 SW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
181.6 acres - total.

Catherine L. Devine (Map Sheet 6)

5.9 acres in SW¼ SE¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
29.0 acres in NE¼ NW¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
74.9 acres - total.

Samuel and Catherine Devine (Map Sheet 6)

31.7 acres in SW¼ NE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
38.8 acres in NW¼ SE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
25.2 acres in SW¼ SE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
38.8 acres in SE¼ SE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
21.0 acres in NE¼ NW¼ of Section 28, T. 21 N., R. 14 E., M.D.B.&M.
12.5 acres in NW¼ NW¼ of Section 28, T. 21 N., R. 14 E., M.D.B.&M.
25.7 acres in NE¼ NE¼ of Section 29, T. 21 N., R. 14 E., M.D.B.&M.
1.4 acres in NW¼ NE¼ of Section 29, T. 21 N., R. 14 E., M.D.B.&M.
195.1 acres - total.

Samuel Devine (Map Sheet 6)

20.5 acres in NE¼ NE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
32.6 acres in SE¼ NE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
38.7 acres in NE¼ SE¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
38.5 acres in NW¼ NW¼ of Section 21, T. 21 N., R. 14 E., M.D.B.&M.
6.1 acres in SW¼ NW¼ of Section 21, T. 21 N., R. 14 E., M.D.B.&M.
23.7 acres in NW¼ SW¼ of Section 21, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 21, T. 21 N., R. 14 E., M.D.B.&M.
200.1 acres - total. (Fletcher Creek Ranch)

Samuel Devine (Cont'd)

40.0 acres in NE¼ SW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
15.5 acres in NE¼ SE¼ of Section 28, T. 21 N., R. 14 E., M.D.B.&M.
25.3 acres in SE¼ SE¼ of Section 28, T. 21 N., R. 14 E., M.D.B.&M.
200.8 acres - total. (Turner Creek Ranch)

W. A. Diltz (Map Sheet 6)

8.0 acres in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
8.0 acres - total.

Fred Dolley (T. E. Miller) (Map Sheet 6)

2.0 acres in SW¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
7.0 acres in SE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
9.0 acres - total.

Maxim Dory (Map Sheet 4)

38.8 acres in SW¼ SW¼ of Section 12, T. 21 N., R. 15 E., M.D.B.&M.
31.1 acres in SE¼ SW¼ of Section 12, T. 21 N., R. 15 E., M.D.B.&M.
9.9 acres in NE¼ NW¼ of Section 13, T. 21 N., R. 15 E., M.D.B.&M.
27.5 acres in NW¼ NW¼ of Section 13, T. 21 N., R. 15 E., M.D.B.&M.
107.3 acres - total.

May Dory and Cora V. Keyes (Map Sheet 4)

40.0 acres in SE¼ SE¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
160.0 acres - total.

Albert C. Dotta and Ceasar Dotta (Map Sheets 3 and 4)

40.0 acres in NW¼ NE¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
1.6 acres in NE¼ NE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
9.9 acres in NW¼ NE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
28.2 acres in SW¼ NE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
2.3 acres in SE¼ NE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
6.5 acres in NE¼ NW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
37.4 acres in SE¼ NW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
39.4 acres in NE¼ SW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
10.3 acres in NE¼ SE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
25.7 acres in NW¼ SE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
28.8 acres in SW¼ SE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd)

Albert C. Dotta and Ceasar Dotta (Cont'd)

26.8 acres in SE¼ SE¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
17.9 acres in NE¼ NE¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
29.1 acres in NW¼ NE¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
30.2 acres in SW¼ NE¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
25.0 acres in SE¼ NE¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
37.1 acres in NE¼ NW¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
39.2 acres in SE¼ NW¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
38.5 acres in NE¼ SE¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
38.0 acres in SE¼ SE¼ of Section 34, T. 22 N., R. 15 E., M.D.B.&M.
39.2 acres in NW¼ NE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
18.8 acres in SE¼ NE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
33.4 acres in SW¼ NW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
34.5 acres in NW¼ SW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
38.5 acres in SW¼ SW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
2.8 acres in NE¼ SE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
36.2 acres in NW¼ SE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
28.8 acres in SE¼ SE¼ of Section 35, T. 22 N., R. 15 E., M.D.B.&M.
1.6 acres in SW¼ SW¼ of Section 36, T. 22 N., R. 15 E., M.D.B.&M.
1145.7 acres - total.

Antone E. Dotta (Map Sheet 3)

19.6 acres in NW¼ NW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
38.7 acres in SW¼ SW¼ of Section 27, T. 22 N., R. 15 E., M.D.B.&M.
138.3 acres - total.

C. C. Dotta (Map Sheet 4)

23.1 acres in NE¼ NW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
32.6 acres in NW¼ NW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
31.4 acres in SW¼ NW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
30.0 acres in SE¼ NW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
1.0 acre in NE¼ SW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
26.1 acres in NW¼ SW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
33.2 acres in SW¼ SW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
37.1 acres in SE¼ SW¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
9.5 acres in NE¼ SE¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
31.4 acres in NW¼ SE¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
28.1 acres in SW¼ SE¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
0.2 acre in SE¼ SE¼ of Section 6, T. 21 N., R. 15 E., M.D.B.&M.
1.9 acres in NE¼ NE¼ of Section 7, T. 21 N., R. 15 E., M.D.B.&M.
2.6 acres in NW¼ NE¼ of Section 7, T. 21 N., R. 15 E., M.D.B.&M.
1.0 acre in SW¼ NE¼ of Section 7, T. 21 N., R. 15 E., M.D.B.&M.
2.0 acres in SE¼ NE¼ of Section 7, T. 21 N., R. 15 E., M.D.B.&M.
14.7 acres in NW¼ NW¼ of Section 8, T. 21 N., R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd)

C. C. Dotta (Cont'd)

1.6 acres in SW¼ NW¼ of Section 8, T. 21 N., R. 15 E., M.D.B.&M.
307.5 acres - total.

Edna F. Dotta (Map Sheet 3)

6.9 acres in NW¼ SE¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
32.7 acres in SW¼ SE¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
5.5 acres in SE¼ SE¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
45.1 acres - total. (Home Ranch)

38.8 acres in SE¼ SW¼ of Section 17, T. 22 N., R. 15 E., M.D.B.&M.
31.0 acres in SW¼ SW¼ of Section 17, T. 22 N., R. 15 E., M.D.B.&M.
12.7 acres in NW¼ SE¼ of Section 17, T. 22 N., R. 15 E., M.D.B.&M.
13.2 acres in SW¼ SE¼ of Section 17, T. 22 N., R. 15 E., M.D.B.&M.
6.0 acres in NE¼ NE¼ of Section 20, T. 22 N., R. 15 E., M.D.B.&M.
39.0 acres in NW¼ NE¼ of Section 20, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 20, T. 22 N., R. 15 E., M.D.B.&M.
180.7 acres - total. (River Ranch)

Frank V. Dotta (Map Sheet 1)

4.8 acres in NW¼ SE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
5.2 acres in SE¼ SE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
10.0 acres - total. (Little Last Chance Valley)

13.8 acres in SW¼ SW¼ of Section 29, T. 24 N., R. 16 E., M.D.B.&M.
19.0 acres in SE¼ SE¼ of Section 30, T. 24 N., R. 16 E., M.D.B.&M.
21.1 acres in SW¼ SE¼ of Section 30, T. 24 N., R. 16 E., M.D.B.&M.
3.1 acres in NW¼ SE¼ of Section 30, T. 24 N., R. 16 E., M.D.B.&M.
3.5 acres in NE¼ SE¼ of Section 30, T. 24 N., R. 16 E., M.D.B.&M.
10.7 acres in NW¼ NE¼ of Section 31, T. 24 N., R. 16 E., M.D.B.&M.
*0.3 acre in NE¼ NE¼ of Section 31, T. 24 N., R. 16 E., M.D.B.&M.
71.5 acres - total. (Frenchman Creek)

(Map Sheet 2)

40.0 acres in SE¼ NW¼ of Section 27, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 27, T. 23 N., R. 16 E., M.D.B.&M.
34.2 acres in SE¼ NE¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
17.1 acres in SW¼ NE¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
39.4 acres in NW¼ SE¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
20.0 acres in SE¼ SE¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
1.4 acres in SE¼ NW¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
35.5 acres in NE¼ SW¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
37.7 acres in SE¼ SW¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
32.9 acres in SW¼ SW¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
1.9 acres in NW¼ SW¼ of Section 28, T. 23 N., R. 16 E., M.D.B.&M.
29.9 acres in SE¼ SE¼ of Section 29, T. 23 N., R. 16 E., M.D.B.&M.
370.0 acres - total. (Home Ranch)

*Denotes land outside of property line.

TABLE 1 (Cont'd)

Henry Dotta (Map Sheet 6)

10.4	acres in	SE¼ SW¼	of Section 10,	T. 20 N.,	R. 14 E., M.D.B.&M.
36.3	acres in	SW¼ SE¼	of Section 10,	T. 20 N.,	R. 14 E., M.D.B.&M.
40.0	acres in	SE¼ SE¼	of Section 10,	T. 20 N.,	R. 14 E., M.D.B.&M.
35.9	acres in	SW¼ SW¼	of Section 11,	T. 20 N.,	R. 14 E., M.D.B.&M.
32.4	acres in	NW¼ NW¼	of Section 14,	T. 20 N.,	R. 14 E., M.D.B.&M.
32.3	acres in	SW¼ NW¼	of Section 14,	T. 20 N.,	R. 14 E., M.D.B.&M.
20.3	acres in	NW¼ SW¼	of Section 14,	T. 20 N.,	R. 14 E., M.D.B.&M.
13.7	acres in	SW¼ SW¼	of Section 14,	T. 20 N.,	R. 14 E., M.D.B.&M.
40.0	acres in	NE¼ NE¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
40.0	acres in	NW¼ NE¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
38.1	acres in	SW¼ NE¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
38.6	acres in	SE¼ NE¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
12.1	acres in	NE¼ NW¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
12.4	acres in	NE¼ SE¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
4.0	acres in	NW¼ SE¼	of Section 15,	T. 20 N.,	R. 14 E., M.D.B.&M.
10.9	acres in	NE¼ NW¼	of Section 23,	T. 20 N.,	R. 14 E., M.D.B.&M.
14.1	acres in	NW¼ NW¼	of Section 23,	T. 20 N.,	R. 14 E., M.D.B.&M.
0.3	acre in	SW¼ NW¼	of Section 23,	T. 20 N.,	R. 14 E., M.D.B.&M.
431.8	acres - total.				

Leon Dotta (Map Sheet 4)

39.8	acres in	SW¼ SW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
29.7	acres in	SE¼ SW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
4.1	acres in	NE¼ NW¼	of Section 12,	T. 21 N.,	R. 15 E., M.D.B.&M.
36.2	acres in	NW¼ NW¼	of Section 12,	T. 21 N.,	R. 15 E., M.D.B.&M.
109.8	acres - total.				

Raffaele Dotta (Map Sheet 4)

2.3	acres in	NE¼ NW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
32.9	acres in	NW¼ NW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
39.1	acres in	SW¼ NW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
18.7	acres in	SE¼ NW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
35.0	acres in	NW¼ SW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
17.5	acres in	NE¼ SW¼	of Section 1,	T. 21 N.,	R. 15 E., M.D.B.&M.
40.0	acres in	NE¼ NE¼	of Section 2,	T. 21 N.,	R. 15 E., M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section 2,	T. 21 N.,	R. 15 E., M.D.B.&M.
40.0	acres in	NE¼ SE¼	of Section 2,	T. 21 N.,	R. 15 E., M.D.B.&M.
265.5	acres - total.				

Albert E. Ede (Map Sheet 3)

23.8	acres in	SE¼ NE¼	of Section 20,	T. 22 N.,	R. 15 E., M.D.B.&M.
37.3	acres in	SW¼ NE¼	of Section 20,	T. 22 N.,	R. 15 E., M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section 20,	T. 22 N.,	R. 15 E., M.D.B.&M.
40.0	acres in	NW¼ SE¼	of Section 20,	T. 22 N.,	R. 15 E., M.D.B.&M.
39.8	acres in	NE¼ SW¼	of Section 20,	T. 22 N.,	R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd.)

Albert E. Ede (Cont'd.)

1.7 acres in SE¼ NW¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
13.0 acres in SW¼ NW¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
195.6 acres - total.

Charles Ede (Map Sheet 3)

36.5 acres in NE¼ SE¼ of Section 20, T. 22 N., R. 15 E., M.D.B.&M.
10.6 acres in NE¼ SW¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
31.2 acres in NW¼ SW¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
38.8 acres in SE¼ SW¼ of Section 21, T. 22 N., R. 15 E., M.D.B.&M.
38.8 acres in NE¼ NW¼ of Section 28, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 28, T. 22 N., R. 15 E., M.D.B.&M.
195.9 acres - total.

Philip E. Ede (Map Sheet 2)

15.5 acres in SW¼ SE¼ of Section 29, T. 23 N., R. 16 E., M.D.B.&M.
9.0 acres in NE¼ SW¼ of Section 29, T. 23 N., R. 16 E., M.D.B.&M.
38.0 acres in SE¼ SW¼ of Section 29, T. 23 N., R. 16 E., M.D.B.&M.
38.0 acres in SW¼ SW¼ of Section 29, T. 23 N., R. 16 E., M.D.B.&M.
10.0 acres in NW¼ SW¼ of Section 29, T. 23 N., R. 16 E., M.D.B.&M.
38.5 acres in NE¼ NE¼ of Section 32, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 32, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 32, T. 23 N., R. 16 E., M.D.B.&M.
29.5 acres in NW¼ NE¼ of Section 32, T. 23 N., R. 16 E., M.D.B.&M.
38.5 acres in NE¼ NW¼ of Section 32, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 32, T. 23 N., R. 16 E., M.D.B.&M.
36.7 acres in NE¼ NW¼ of Section 33, T. 23 N., R. 16 E., M.D.B.&M.
38.5 acres in NW¼ NW¼ of Section 33, T. 23 N., R. 16 E., M.D.B.&M.
20.0 acres in SW¼ NW¼ of Section 33, T. 23 N., R. 16 E., M.D.B.&M.
432.2 acres - total.

G. Falchi (Map Sheet 7)

40.0 acres in SE¼ NE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
38.1 acres in SW¼ NE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
3.0 acres in SE¼ NW¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
23.3 acres in NW¼ SE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
144.4 acres - total.

G. and M. Falchi (Map Sheet 7)

1.0 acre in NE¼ NW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
22.0 acres in SE¼ NW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
18.5 acres in SW¼ NW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
12.0 acres in NE¼ SW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
32.0 acres in NW¼ SW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
16.0 acres in NE¼ SE¼ of Section 3, T. 22 N., R. 14 E., M.D.B.&M
101.5 acres - total.

TABLE 1 (Cont'd)

The Federal Land Bank of Berkeley (Map Sheet 3)

27.0	acres in	NE¼ NE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
22.0	acres in	NW¼ NE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.8	acres in	SW¼ NE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.8	acres in	SE¼ NE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.3	acres in	NE¼ SE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.0	acres in	NW¼ SE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.9	acres in	SW¼ SE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
32.4	acres in	SE¼ SE¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
272.2	acres - total.					

Julius Filippini (Map Sheets 3 and 4)

40.0	acres in	NE¼ NE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
37.6	acres in	NW¼ NE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
26.1	acres in	SW¼ NE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
19.5	acres in	NE¼ NW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
27.5	acres in	NW¼ NW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
6.0	acres in	SW¼ NW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
19.4	acres in	SE¼ NW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
12.0	acres in	NE¼ SW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
0.9	acre in	NW¼ SW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
1.2	acres in	SW¼ SW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
7.4	acres in	SE¼ SW¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
30.0	acres in	NE¼ SE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
3.8	acres in	NW¼ SE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
1.0	acres in	SE¼ SE¼	of Section 5,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
28.8	acres in	NE¼ NE¼	of Section 6,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
24.6	acres in	NW¼ NE¼	of Section 6,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
24.8	acres in	SW¼ NE¼	of Section 6,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
21.1	acres in	SE¼ NE¼	of Section 6,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
27.6	acres in	NE¼ SE¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
9.3	acres in	NW¼ SE¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
15.7	acres in	SW¼ SE¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
25.6	acres in	SE¼ SE¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
26.3	acres in	SE¼ NW¼	of Section 32,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.3	acres in	SW¼ NW¼	of Section 32,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
29.4	acres in	NE¼ SW¼	of Section 32,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.6	acres in	NW¼ SW¼	of Section 32,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
30.0	acres in	SW¼ SW¼	of Section 32,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
18.7	acres in	SE¼ SW¼	of Section 32,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
623.2	acres - total					

First National Bank of Nevada (California Lands Inc.) (Map Sheet 4)

1.2	acres in	SE¼ SW¼	of Section 7,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
37.6	acres in	NW¼ SE¼	of Section 18,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
38.5	acres in	SW¼ SE¼	of Section 18,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
37.0	acres in	NW¼ NE¼	of Section 19,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
37.5	acres in	SW¼ NE¼	of Section 19,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
151.8	acres - total.					

TABLE 1 (Cont'd)

Frank W. Freeman (Map Sheet 6)

27.1 acres in SE¼ NW¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
11.6 acres in SW¼ NW¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
36.8 acres in NE¼ SW¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
39.4 acres in NW¼ SW¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
0.2 acre in SW¼ SW¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
2.4 acres in SE¼ SW¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
34.3 acres in NE¼ NE¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
39.5 acres in SE¼ NE¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
15.1 acres in SW¼ NE¼ of Section 33, T. 21 N., R. 14 E., M.D.B.&M.
206.4 acres - total.

Estate of Wm. Freeman (Map Sheet 6)

7.9 acres in NE¼ NW¼ of Section 21, T. 21 N., R. 14 E., M.D.B.&M.
0.9 acre in SE¼ NW¼ of Section 21, T. 21 N., R. 14 E., M.D.B.&M.
8.8 acres - total. (Lower Fletcher Creek Ranch)

20.3 acres in SE¼ NW¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
33.5 acres in NE¼ SW¼ of Section 20, T. 21 N., R. 14 E., M.D.B.&M.
53.8 acres - total. (Upper Fletcher Creek Ranch)

Rose Galeppi, et al. (Map Sheet 1)

34.0 acres in NW¼ NE¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
39.8 acres in SW¼ NE¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
1.5 acres in SE¼ SE¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
19.7 acres in NE¼ NW¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
23.0 acres in SE¼ NW¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
36.1 acres in NW¼ SE¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
34.6 acres in SW¼ SE¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
12.9 acres in NE¼ SW¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
3.8 acres in SE¼ SW¼ of Section 17, T. 24 N., R. 16 E., M.D.B.&M.
0.2 acre in NE¼ NE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
29.5 acres in NW¼ NE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
30.7 acres in SW¼ NE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
13.9 acres in SE¼ NE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
14.5 acres in NE¼ NW¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
11.7 acres in SE¼ NW¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
30.6 acres in NE¼ SE¼ of Section 20, T. 24 N., R. 16 E., M.D.B.&M.
336.5 acres - total. (Little Last Chance Valley)

6.2 acres in NW¼ NW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
38.6 acres in SW¼ NW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
4.1 acres in SE¼ NW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
12.1 acres in NE¼ SW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
21.2 acres in SW¼ SW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
2.1 acres in SE¼ SW¼ of Section 27, T. 24 N., R. 16 E., M.D.B.&M.
18.7 acres in SE¼ NE¼ of Section 28, T. 24 N., R. 16 E., M.D.B.&M.

TABLE 1 (Cont'd)

Rose Galeppi, et al. (Cont'd.)

16.9 acres in NE¼ SE¼ of Section 28, T. 24 N., R. 16 E., M.D.B.&M.
1.2 acres in SE¼ SE¼ of Section 28, T. 24 N., R. 16 E., M.D.B.&M.
161.1 acres - total. (Galeppi Creek Ranch)

Attilio R. and Louis Genasci (Map Sheet 4)

40.0 acres in SW¼ SW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
31.0 acres in SE¼ SE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
18.2 acres in NE¼ NE¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
39.8 acres in NW¼ NW¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
24.0 acres in SW¼ NW¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
39.3 acres in SE¼ NW¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
34.5 acres in NE¼ SW¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
31.8 acres in NW¼ SE¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
298.6 acres - total.

Perpetua Genasci (Map Sheet 4)

39.0 acres in NE¼ NE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
36.3 acres in SE¼ NE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
13.9 acres in NE¼ SE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
7.4 acres in SW¼ SE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
14.0 acres in SW¼ NE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
20.0 acres in NW¼ NE¼ of Section 3, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 2, T. 21 N., R. 15 E., M.D.B.&M.
5.1 acres in NW¼ SW¼ of Section 11, T. 21 N., R. 15 E., M.D.B.&M.
415.7 acres - total. (Conoly Ranch)

(Map Sheet 4)

31.0 acres in NE¼ NW¼ of Section 4, T. 21 N., R. 15 E., M.D.B.&M.
10.0 acres in SE¼ NW¼ of Section 4, T. 21 N., R. 15 E., M.D.B.&M.
30.0 acres in SW¼ NW¼ of Section 4, T 21 N., R. 15 [illegible]., M.D.B.&M.
39.0 acres in NW¼ NW¼ of Section 4, T. 21 N., R. 15 E., M.D.B.&M.
15.0 acres in NE¼ SW¼ of Section 4, T. 21 N., R. 15 E., M.D.B.&M.
6.0 acres in SE¼ SW¼ of Section 4, T. 21 N., R. 15 E., M.D.B.&M.
9.0 acres in NW¼ SW¼ of Section 4, T. 21 N., R. 15 E., M.D.B.&M.
140.0 acres - total. (Antelope Creek Ranch)

Perpetua Genasci and Raffaele Dotta (Map Sheet 4)

30.1 acres in NE¼ NW¼ of Section 7, T. 21 N., R. 15 E., M.D.B.&M.
26.9 acres in NW¼ NW¼ of Section 7, T. 21 N., R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd)

Perpetua Genasci and Raffaele Dotta (Cont'd)

32.4	acres in SW¼ NW¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
36.2	acres in SE¼ NW¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
10.2	acres in NE¼ SW¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
7.3	acres in SW¼ SE¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
143.1	acres - total. (River Ranch)				

E. F. Ghidossi (Map Sheets 3 and 7)

21.3	acres in NE¼ NW¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.0	acres in SE¼ NW¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.8	acres in NE¼ SW¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.2	acres in NE¼ SE¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in NW¼ SE¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.1	acres in SW¼ SE¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.7	acres in SE¼ SE¼	of Section 30,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.4	acres in NE¼ NW¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.0	acres in NW¼ NW¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
36.8	acres in SW¼ NW¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
22.2	acres in SE¼ NW¼	of Section 31,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.7	acres in NE¼ NE¼	of Section 36,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
7.7	acres in NW¼ NE¼	of Section 36,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
14.6	acres in SW¼ NE¼	of Section 36,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
35.0	acres in SE¼ NE¼	of Section 36,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
463.5	acres - total.				

Alex E. Giudici (Map Sheet 2)

17.4	acres in NE¼ NW¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
26.6	acres in SE¼ NW¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
39.4	acres in NE¼ SW¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
24.0	acres in NW¼ SW¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in NW¼ SE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
30.2	acres in SW¼ SE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
2.4	acres in NE¼ SE¼	of Section 22,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
180.0	acres - total.				

Alice, Francis and Stephen Giudici (Map Sheet 4)

40.0	acres in SE¼ NE¼	of Section 11,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
30.4	acres in NE¼ SE¼	of Section 11,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
36.4	acres in SW¼ NW¼	of Section 12,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
1.1	acres in SE¼ NW¼	of Section 12,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
2.1	acres in NE¼ SW¼	of Section 12,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
35.3	acres in NW¼ SW¼	of Section 12,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
145.3	acres - total.				

B. E. and R. E. Giudici (Map Sheet 3)

35.3	acres in SE¼ SE¼	of Section 22,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
25.4	acres in SW¼ SW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
13.6	acres in SE¼ SW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
9.0	acres in SW¼ SE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

B. E. and R. E. Giudici (Cont'd)

20.0	acres in	NE¼ NE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
5.0	acres in	NW¼ NE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
18.6	acres in	SW¼ NE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
10.0	acres in	SE¼ NE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
3.9	acres in	NE¼ NW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
8.9	acres in	NW¼ NW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
31.8	acres in	SW¼ NW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
11.1	acres in	SE¼ NW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
36.7	acres in	NE¼ SW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.5	acres in	NW¼ SW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
30.0	acres in	SW¼ SW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
34.3	acres in	SE¼ SW¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
20.2	acres in	NW¼ SE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
6.0	acres in	SE¼ SE¼	of Section 26,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
4.3	acres in	NE¼ NE¼	of Section 35,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
31.4	acres in	NW¼ NW¼	of Section 35,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
431.0	acres - total.					

Fred P. Giudici, et al. (Map Sheet 1)

16.7	acres in	SE¼ NE¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
2.9	acres in	NE¼ SE¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
12.4	acres in	NW¼ SE¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
*0.8	acre in	SW¼ SE¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
7.0	acres in	NE¼ SW¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
4.4	acres in	NW¼ SW¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
23.6	acres in	SW¼ NW¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
1.8	acres in	NW¼ NW¼	of Section 35,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
22.4	acres in	NE¼ NE¼	of Section 34,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
9.1	acres in	SE¼ NE¼	of Section 34,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
2.2	acres in	NW¼ NE¼	of Section 34,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
103.3	acres - total. (Spring Creek Ranch)					

*Denotes land outside of property line.

(Map Sheet 2)

4.7	acres in	NW¼ SE¼	of Section 11,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
4.9	acres in	SW¼ SE¼	of Section 11,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
13.0	acres in	NW¼ NE¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
25.2	acres in	SW¼ NE¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
0.3	acre in	SE¼ NW¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
1.5	acres in	NE¼ SE¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
33.8	acres in	NW¼ SE¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
38.3	acres in	SW¼ SE¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
5.9	acres in	SE¼ SE¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
*0.4	acre in	NE¼ SW¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
3.1	acres in	SE¼ SW¼	of Section 14,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
34.5	acres in	NE¼ NE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
39.8	acres in	NW¼ NE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
285.4	acres - total. (Home Ranch)					

*Denotes land outside of property line.

TABLE 1 (Cont'd)

M. Giudici (Map Sheet 2)

3.7	acres in	NW¼ NW¼	of Section 24,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
2.0	acres in	SW¼ NW¼	of Section 24,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
6.5	acres in	NW¼ SW¼	of Section 24,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼ SE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
10.1	acres in	SE¼ SE¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
62.3	acres - total.					

Edmond J. Goble (Map Sheet 2)

38.2	acres in	NE¼ NE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
38.2	acres in	NW¼ NE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
38.2	acres in	NE¼ NW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ NW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
38.2	acres in	NW¼ NW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NE¼ SE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ SE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NW¼ SE¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NE¼ SW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ SW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NW¼ SW¼	of Section 31,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
38.2	acres in	NW¼ NW¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ NW¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NW¼ SE¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.9	acres in	SW¼ SE¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NE¼ SW¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ SW¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SW¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in	NW¼ SW¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
922.7	acres - total.					

Elsie Golden (Map Sheet 1)

4.0	acres in	NE¼ SE¼	of Section 32,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
4.5	acres in	SE¼ SE¼	of Section 32,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
*1.5	acres in	NE¼ NE¼	of Section 5,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
6.0	acres in	NW¼ NE¼	of Section 5,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
*1.6	acres in	SW¼ NE¼	of Section 5,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
*1.7	acres in	NW¼ SE¼	of Section 5,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
4.0	acres in	SE¼ NW¼	of Section 5,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
4.2	acres in	NE¼ SW¼	of Section 5,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
8.1	acres in	NW¼ SE¼	of Section 8,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
23.0	acres in	SW¼ SE¼	of Section 8,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
26.5	acres in	SE¼ SW¼	of Section 8,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
5.0	acres in	SW¼ SE¼	of Section 4,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
2.0	acres in	NE¼ NE¼	of Section 9,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
92.1	acres - total. (Little Last Chance Valley)					

*Denotes land outside of property line.

Elsie Golden (Cont'd)

6.7	acres in	NE¼	SE¼	of Section 21,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
33.3	acres in	SE¼	SE¼	of Section 21,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
*0.2	acre in	SW¼	SE¼	of Section 21,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
0.5	acre in	SW¼	SW¼	of Section 22,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
4.5	acres in	NW¼	NW¼	of Section 27,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
32.6	acres in	NE¼	NE¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
16.8	acres in	SE¼	NE¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
5.3	acres in	SW¼	NE¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
*0.4	acre in	NW¼	NE¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
7.6	acres in	SW¼	NW¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
6.0	acres in	SE¼	NW¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
19.9	acres in	NE¼	SW¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
10.6	acres in	SE¼	SW¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
2.4	acres in	SW¼	SW¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
5.3	acres in	NW¼	SW¼	of Section 28,	T. 24 N.,	R. 16 E.,	M.D.B.&M.
152.1	acres - total.	(Frenchman Creek Ranch)					

(Map Sheet 2)

24.2	acres in	SE¼	SE¼	of Section 22,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
6.7	acres in	SW¼	SE¼	of Section 22,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
0.3	acre in	SE¼	SW¼	of Section 22,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼	NE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NW¼	NE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
25.1	acres in	NE¼	NW¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
10.0	acres in	NW¼	NW¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
0.5	acre in	NE¼	NE¼	of Section 28,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
146.8	acres - total.	(Vinton Ranch)					

(Map Sheet 2)

2.5	acres in	SE¼	SE¼	of Section 7,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
29.5	acres in	SW¼	SW¼	of Section 8,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
15.0	acres in	SE¼	SW¼	of Section 8,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
*7.0	acres in	NE¼	SW¼	of Section 8,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
2.3	acres in	SW¼	NE¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
22.0	acres in	NE¼	NW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
34.0	acres in	SE¼	NW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
39.0	acres in	SW¼	NW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
39.5	acres in	NW¼	NW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
11.0	acres in	NW¼	SE¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
12.0	acres in	SW¼	SE¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼	SW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
35.5	acres in	SE¼	SW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
16.0	acres in	SW¼	SW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
25.0	acres in	NW¼	SW¼	of Section 17,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
9.5	acres in	NE¼	NE¼	of Section 18,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
2.7	acres in	SE¼	NE¼	of Section 18,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
24.0	acres in	NW¼	NE¼	of Section 20,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
26.0	acres in	SW¼	NE¼	of Section 20,	T. 23 N.,	R. 16 E.,	M.D.B.&M.

*Denotes land outside of property line.

TABLE 1 (Cont'd)

Elsie Golden (Cont'd)

1.7 acres in NW¼ SE¼ of Section 20, T. 23 N., R. 16 E., M.D.B.&M.
32.0 acres in NE¼ SW¼ of Section 20, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 20, T. 23 N., R. 16 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 20, T. 23 N., R. 16 E., M.D.B.&M.
13.0 acres in SW¼ NW¼ of Section 20, T. 23 N., R. 16 E., M.D.B.&M.
14.0 acres in NW¼ NW¼ of Section 20, T. 23 N., R. 16 E., M.D.B.&M.
533.2 acres - total. (Home Ranch)

R. Griffin (Map Sheet 6)

1.1 acres in SE¼ SW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
1.1 acres - total.

R. E. Guscetti (Map Sheet 3)

2.0 acres in SE¼ NW¼ of Section 27, T. 22 N., R. 16 E., M.D.B.&M.
14.0 acres in SW¼ NW¼ of Section 27, T. 22 N., R. 16 E., M.D.B.&M.
4.0 acres in NE¼ NE¼ of Section 28, T. 22 N., R. 16 E., M.D.B.&M.
4.5 acres in SE¼ NE¼ of Section 28, T. 22 N., R. 16 E., M.D.B.&M.
24.5 acres - total.

W. H. Guscetti (Map Sheet 3)

20.0 acres in SW¼ SW¼ of Section 28, T. 22 N., R. 16 E., M.D.B.&M.
0.6 acre in NW¼ NW¼ of Section 33, T. 22 N., R. 16 E., M.D.B.&M.
20.6 acres - total.

Marietta Hall (Map Sheet 1)

*2.8 acres in SW¼ NW¼ of Section 29, T. 25 N., R. 16 E., M.D.B.&M.
8.8 acres in NW¼ NW¼ of Section 29, T. 25 N., R. 16 E., M.D.B.&M.
3.8 acres in SE¼ NW¼ of Section 29, T. 25 N., R. 16 E., M.D.B.&M.
15.4 acres - total.

George A. Henderson (Map Sheet 6)

8.0 acres in SW¼ SW¼ of Section 25, T. 21 N., R. 14 E., M.D.B.&M.
12.0 acres in SE¼ SE¼ of Section 26, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
35.1 acres in NW¼ NE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
39.5 acres in SE¼ NE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
334.6 acres - total.

R. L. Henderson (Map Sheet 6)

34.5 acres in NE¼ SE¼ of Section 23, T. 21 N., R. 14 E., M.D.B.&M.

*Denotes land outside of property line.

R. L. Henderson (Cont'd)

37.8 acres in NW¼ SE¼ of Section 23, T. 21 N., R. 14 E., M.D.B.&M.
38.3 acres in SW¼ SE¼ of Section 23, T. 21 N., R. 14 E., M.D.B.&M.
15.4 acres in SW¼ NW¼ of Section 24, T. 21 N., R. 14 E., M.D.B.&M.
8.7 acres in NW¼ SW¼ of Section 24, T. 21 N., R. 14 E., M.D.B.&M.
134.7 acres - total.

F. E. Humphrey, Jr. (Map Sheet 3)

38.5 acres in NE¼ SE¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
37.4 acres in SW¼ SE¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
28.7 acres in NE¼ SW¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
15.7 acres in Lot 3 Section 19, T. 22 N., R. 15 E., M.D.B.&M.
11.5 acres in Lot 4 Section 19, T. 22 N., R. 15 E., M.D.B.&M.
26.5 acres in SE¼ SW¼ of Section 19, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 30, T. 22 N., R. 15 E., M.D.B.&M.
37.5 acres in NW¼ NE¼ of Section 30, T. 22 N., R. 15 E., M.D.B.&M.
39.9 acres in SW¼ NE¼ of Section 30, T. 22 N., R. 15 E., M.D.B.&M.
39.3 acres in SE¼ NE¼ of Section 30, T. 22 N., R. 15 E., M.D.B.&M.
395.0 acres - total. (Lower Ranch)

(Map Sheets 6 and 7)

12.7 acres in NE¼ SW¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
5.1 acres in SW¼ SW¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
29.6 acres in SE¼ SW¼ of Section 36, T. 22 N., R. 14 E., M.D.B.&M.
27.0 acres in NE¼ NE¼ of Section 1, T. 21 N., R. 14 E., M.D.B.&M.
37.1 acres in NW¼ NE¼ of Section 1, T. 21 N., R. 14 E., M.D.B.&M.
33.6 acres in NE¼ NW¼ of Section 1, T. 21 N., R. 14 E., M.D.B.&M.
14.9 acres in NW¼ NW¼ of Section 1, T. 21 N., R. 14 E., M.D.B.&M.
160.0 acres - total. (Middle Ranch)

(Map Sheet 6)

40.0 acres in NE¼ SW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
39.4 acres in NW¼ SW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
39.4 acres in SW¼ SW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
37.4 acres in NW¼ NW¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
39.4 acres in SW¼ NW¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
36.8 acres in SE¼ NW¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
392.4 acres - total. (Webber Ranch)

(Map Sheets 4 and 6)

39.7 acres in NW¼ SW¼ of Section 1, T. 21 N., R. 14 E., M.D.B.&M.
35.2 acres in SW¼ SW¼ of Section 1, T. 21 N., R. 14 E., M.D.B.&M.

TABLE 1 (Cont'd)

F. E. Humphrey, Jr. (Cont'd)

39.0	acres in	SE¼	SW¼	of Section	1,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
25.5	acres in	NE¼	SW¼	of Section	1,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
29.0	acres in	NE¼	SE¼	of Section	1,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NW¼	SE¼	of Section	1,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SW¼	SE¼	of Section	1,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
34.5	acres in	SE¼	SE¼	of Section	1,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
15.3	acres in	NE¼	SE¼	of Section	2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
29.4	acres in	SE¼	SE¼	of Section	2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
0.4	acre in	SW¼	SE¼	of Section	2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NE¼	NE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
8.1	acres in	NW¼	NE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
17.8	acres in	SW¼	NE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SE¼	NE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
29.7	acres in	NE¼	SE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.0	acres in	NW¼	SE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
27.1	acres in	SW¼	SE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.8	acres in	SE¼	SE¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
9.4	acres in	NE¼	SW¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
8.2	acres in	SW¼	SW¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
7.5	acres in	SE¼	SW¼	of Section	11,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
31.5	acres in	NE¼	NE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
39.5	acres in	NW¼	NE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
27.8	acres in	SW¼	NE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
31.3	acres in	SE¼	NE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NE¼	NW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NW¼	NW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.4	acres in	SW¼	NW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.9	acres in	SE¼	NW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
24.0	acres in	NE¼	SW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
35.4	acres in	NW¼	SW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
30.0	acres in	SW¼	SW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
29.7	acres in	SE¼	SW¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
32.4	acres in	NE¼	SE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
30.1	acres in	NW¼	SE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
30.8	acres in	SW¼	SE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
33.1	acres in	SE¼	SE¼	of Section	12,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NE¼	NE¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
35.3	acres in	NW¼	NE¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
28.7	acres in	SW¼	NE¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
6.0	acres in	SE¼	NE¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
30.1	acres in	NE¼	NW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
24.4	acres in	NW¼	NW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
31.8	acres in	SW¼	NW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.3	acres in	SE¼	NW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.0	acres in	NE¼	SW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.9	acres in	NW¼	SW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
0.2	acre in	SW¼	SW¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
12.0	acres in	NE¼	SE¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
24.0	acres in	NW¼	SE¼	of Section	13,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
32.9	acres in	NE¼	NE¼	of Section	14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.4	acres in	NW¼	NE¼	of Section	14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.

F. E. Humphrey, Jr. (Cont'd)

32.9	acres in	SW¼	NE¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
30.0	acres in	SE¼	NE¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
33.7	acres in	NE¼	NW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
7.3	acres in	NW¼	NW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
12.1	acres in	SW¼	NW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
39.7	acres in	SE¼	NW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
33.3	acres in	NE¼	SW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
33.0	acres in	NW¼	SW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
10.9	acres in	SW¼	SW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
36.7	acres in	SE¼	SW¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
34.5	acres in	NE¼	SE¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.5	acres in	NW¼	SE¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.8	acres in	SW¼	SE¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
28.0	acres in	SE¼	SE¼	of Section 14,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
15.8	acres in	NE¼	SE¼	of Section 15,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
2.5	acres in	SE¼	SE¼	of Section 15,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
12.9	acres in	NE¼	NE¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
7.1	acres in	SE¼	NE¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
4.0	acres in	NE¼	NE¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
35.5	acres in	NW¼	NE¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.5	acres in	SW¼	NE¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
35.9	acres in	NE¼	NW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
23.0	acres in	NW¼	NW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
31.2	acres in	SW¼	NW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
31.5	acres in	SE¼	NW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
34.1	acres in	NE¼	SW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
39.8	acres in	NW¼	SW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.4	acres in	NW¼	SW¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
31.0	acres in	SW¼	SW¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
6.0	acres in	SE¼	SW¼	of Section 7,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
29.1	acres in	NE¼	NW¼	of Section 18,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	NW¼	NW¼	of Section 18,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
28.0	acres in	SW¼	NW¼	of Section 18,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
17.1	acres in	SE¼	NW¼	of Section 18,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
14.2	acres in	NW¼	SW¼	of Section 18,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
2463.5	acres - total. (Home Ranch)						

(Map Sheet 6)

18.0	acres in	NE¼	NW¼	of Section 2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
20.0	acres in	SE¼	NW¼	of Section 2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
13.0	acres in	SW¼	NW¼	of Section 2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
12.0	acres in	NE¼	SW¼	of Section 2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
36.0	acres in	NW¼	SW¼	of Section 2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
12.0	acres in	SW¼	SW¼	of Section 2,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
20.0	acres in	NE¼	SE¼	of Section 3,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
9.0	acres in	SE¼	SE¼	of Section 3,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
10.0	acres in	SW¼	SE¼	of Section 3,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
5.0	acres in	NW¼	SE¼	of Section 3,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
5.0	acres in	NE¼	NE¼	of Section 10,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
160.0	acres - total. (Craycroft Creek on Home Ranch)						

TABLE 1 (Cont'd)

J. L. Humphrey (Map Sheets 3 and 7)

2.0	acres	in	SE¼	SE¼	of Section	6,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
11.0	acres	in	NE¼	NE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in	NW¼	NE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
26.4	acres	in	SW¼	NE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
31.4	acres	in	SE¼	NE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
36.2	acres	in	NE¼	NW¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
36.0	acres	in	Lot 1		Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
25.2	acres	in	Lot 2		Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.0	acres	in	SE¼	NW¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.7	acres	in	NE¼	SW¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
32.4	acres	in	Lot 3		Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
5.0	acres	in	Lot 4		Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
21.0	acres	in	SE¼	SW¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
31.6	acres	in	NE¼	SE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
6.6	acres	in	NW¼	SE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
18.2	acres	in	SW¼	SE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.3	acres	in	SE¼	SE¼	of Section	7,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
1.8	acres	in	NW¼	NW¼	of Section	8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
26.7	acres	in	SW¼	NW¼	of Section	8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
3.6	acres	in	SE¼	NW¼	of Section	8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
8.2	acres	in	NE¼	NW¼	of Section	8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.9	acres	in	SE¼	SW¼	of Section	8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.2	acre	in	NW¼	NE¼	of Section	16,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
16.2	acres	in	NE¼	NW¼	of Section	16,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.2	acre	in	SW¼	NE¼	of Section	17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
16.9	acres	in	SE¼	NW¼	of Section	17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.3	acres	in	SW¼	NW¼	of Section	17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.9	acres	in	NE¼	SW¼	of Section	17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.6	acres	in	NW¼	SW¼	of Section	17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
28.6	acres	in	NE¼	NE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.8	acres	in	NW¼	NE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.8	acres	in	SW¼	NE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
14.1	acres	in	SE¼	NE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.5	acres	in	NE¼	NW¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
2.4	acres	in	Lot 1		Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.8	acre	in	Lot 2		Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
36.4	acres	in	SE¼	NW¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in	NE¼	SW¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.8	acres	in	Lot 3		Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.6	acres	in	Lot 4		Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.9	acres	in	SE¼	SW¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
13.2	acres	in	NE¼	SE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
34.5	acres	in	NW¼	SE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.0	acres	in	SW¼	SE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
24.9	acres	in	SE¼	SE¼	of Section	18,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
32.4	acres	in	NE¼	NE¼	of Section	19,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.4	acres	in	NW¼	NE¼	of Section	19,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
37.8	acres	in	NE¼	NW¼	of Section	19,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
29.7	acres	in	Lot 1		Section	19,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
21.8	acres	in	NW¼	NW¼	of Section	20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in	SW¼	NW¼	of Section	20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

J. L. Humphrey (Cont'd)

40.0	acres in	NW¼ SW¼	of Section 20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
3.5	acres in	NE¼ SE¼	of Section 12,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
13.5	acres in	SE¼ SE¼	of Section 12,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
20.7	acres in	NE¼ NE¼	of Section 13,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
21.1	acres in	SE¼ NE¼	of Section 13,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
1.7	acres in	SW¼ NE¼	of Section 13,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
15.5	acres in	NE¼ SE¼	of Section 13,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
1.2	acres in	NW¼ SE¼	of Section 13,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
8.3	acres in	SE¼ SE¼	of Section 13,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
13.4	acres in	NE¼ NE¼	of Section 24,	T. 22 N.,	R. 14 E.,	M.D.B.&M.
1383.8	acres - total.	(River Ranch)				

M. B. Humphrey (Map Sheet 2)

40.0	acres in	SE¼ NE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼ SE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NW¼ SE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
20.7	acres in	SE¼ SE¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼ SW¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ SW¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SW¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NW¼ SW¼	of Section 27,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
0.6	acre in	NE¼ NE¼	of Section 34,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
29.1	acres in	NW¼ NE¼	of Section 34,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
2.6	acres in	SW¼ NE¼	of Section 34,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼ NW¼	of Section 34,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
15.4	acres in	SE¼ NW¼	of Section 34,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
468.4	acres - total.	(Home Ranch)				

(Map Sheet 3)

12.2	acres in	SW¼ SW¼	of Section 11,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	NW¼ SE¼	of Section 12,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 12,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	NE¼ SW¼	of Section 12,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SE¼ SW¼	of Section 12,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.8	acres in	NE¼ NE¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.0	acres in	NW¼ NE¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.5	acres in	NE¼ NW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
19.4	acres in	SW¼ NW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.1	acres in	SE¼ NW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
4.8	acres in	NE¼ SW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
10.2	acres in	NW¼ SW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.6	acres in	SW¼ SW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
9.0	acres in	NE¼ SE¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.2	acre in	NW¼ SE¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
7.7	acres in	SW¼ SE¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
21.4	acres in	SE¼ SE¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
2.8	acres in	NW¼ SW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

M. B. Humphrey (Cont'd)

0.5	acre	in SW¼	SW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.8	acre	in SE¼	SW¼	of Section 13,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
3.4	acres	in NW¼	NW¼	of Section 14,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
9.9	acres	in NE¼	NE¼	of Section 15,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
19.9	acres	in NW¼	NE¼	of Section 15,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
6.4	acres	in SW¼	NE¼	of Section 15,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
1.8	acres	in SE¼	NE¼	of Section 15,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.5	acre	in NE¼	NW¼	of Section 15,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
2.5	acres	in SE¼	SE¼	of Section 15,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
4.6	acres	in NW¼	NE¼	of Section 22,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
5.9	acres	in SW¼	NE¼	of Section 22,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
4.0	acres	in SE¼	NE¼	of Section 22,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
27.2	acres	in NE¼	SE¼	of Section 22,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
4.5	acres	in NW¼	SE¼	of Section 22,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
7.6	acres	in NE¼	SW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
18.5	acres	in NW¼	SW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
12.6	acres	in NE¼	SE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
2.4	acres	in NW¼	SE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.1	acre	in NE¼	NE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
7.8	acres	in NW¼	NE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.7	acres	in SW¼	NE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.1	acres	in SE¼	NE¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
10.9	acres	in NE¼	NW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
13.9	acres	in NW¼	NW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
34.8	acres	in SW¼	NW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
8.4	acres	in SE¼	NW¼	of Section 23,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.2	acre	in NW¼	NW¼	of Section 24,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
6.7	acres	in SW¼	NW¼	of Section 24,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.0	acres	in NW¼	NW¼	of Section 18,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
668.3	acres - total.	(Dicen Ranch)					

(Map Sheet 3)

40.0	acres	in SW¼	SW¼	of Section 20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
36.6	acres	in SE¼	SW¼	of Section 20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.5	acres	in SW¼	SE¼	of Section 20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in SE¼	SE¼	of Section 20,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in SW¼	SW¼	of Section 21,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.9	acres	in SW¼	NW¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.3	acres	in SE¼	NW¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.2	acres	in NE¼	SW¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.5	acres	in NW¼	SW¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
32.5	acres	in SW¼	SW¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
28.5	acres	in SE¼	SW¼	of Section 28,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in NE¼	NE¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in NW¼	NE¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.9	acres	in SW¼	NE¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in SE¼	NE¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.7	acres	in NE¼	NW¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.1	acres	in NW¼	NW¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres	in SW¼	NW¼	of Section 29,	T. 22 N.,	R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

M. B. Humphrey (Cont'd)

37.7 acres in SE¼ NW¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
39.8 acres in NE¼ SW¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
31.5 acres in NW¼ SW¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
35.7 acres in SE¼ SW¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
38.5 acres in NW¼ SE¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
30.7 acres in SW¼ SE¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
39.4 acres in SE¼ SE¼ of Section 29, T. 22 N., R. 15 E., M.D.B.&M.
38.5 acres in NE¼ NE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
20.6 acres in NW¼ NE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
35.0 acres in SW¼ NE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
36.4 acres in SE¼ NE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
33.1 acres in NE¼ NW¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
39.7 acres in NW¼ NW¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
36.4 acres in NW¼ SE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
37.3 acres in SW¼ SE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
37.8 acres in SE¼ SE¼ of Section 32, T. 22 N., R. 15 E., M.D.B.&M.
1370.8 acres - total. (Mickey Ranch)

(Map Sheets 3 and 7)

29.5 acres in NW¼ SE¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.
32.6 acres in SW¼ SE¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.
35.3 acres in Lot 3 Section 6, T. 22 N., R. 15 E., M.D.B.&M.
14.7 acres in Lot 4 Section 6, T. 22 N., R. 15 E., M.D.B.&M.
39.5 acres in SE¼ SW¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
29.0 acres in NW¼ SE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
4.6 acres in SW¼ SE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
37.4 acres in SE¼ SE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
302.6 acres - total. (Tognazini Ranch)

Jennie F. Huntley (Map Sheet 3)

9.5 acres in NW¼ SE¼ of Section 7, T. 22 N., R. 16 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 7, T. 22 N., R. 16 E., M.D.B.&M.
24.0 acres in SE¼ SW¼ of Section 7, T. 22 N., R. 16 E., M.D.B.&M.
39.4 acres in SW¼ SW¼ of Section 7, T. 22 N., R. 16 E., M.D.B.&M.
39.6 acres in NW¼ SW¼ of Section 7, T. 22 N., R. 16 E., M.D.B.&M.
2.9 acres in SW¼ SE¼ of Section 1, T. 22 N., R. 15 E., M.D.B.&M.
20.9 acres in SE¼ SW¼ of Section 1, T. 22 N., R. 15 E., M.D.B.&M.
37.1 acres in SW¼ SW¼ of Section 1, T. 22 N., R. 15 E., M.D.B.&M.
31.3 acres in NE¼ SE¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
35.0 acres in NW¼ SE¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
39.5 acres in SE¼ NE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
12.3 acres in SW¼ NE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
35.6 acres in NW¼ NE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.

TABLE 1 (Cont'd)

Jennie F. Huntley (Cont'd)

40.0 acres in SE¼ NE¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
16.1 acres in NW¼ NE¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
823.2 acres - total.

C. D. Johnson (Map Sheet 6)

12.4 acres in NE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
1.0 acre in SE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
13.4 acres - total.

Dell L. Johnson (Map Sheets 5 and 6)

27.2 acres in N½ Lot 2 NW¼ of Section 19, T. 20 N., R. 15 E., M.D.B.&M.
7.4 acres in S½ Lot 2 NW¼ of Section 19, T. 20 N., R. 15 E., M.D.B.&M.
8.0 acres in N½ Lot 2 SW¼ of Section 19, T. 20 N., R. 15 E., M.D.B.&M.
15.5 acres in S½ Lot 2 SW¼ of Section 19, T. 20 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
19.8 acres in SW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
35.5 acres in NE¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
1.1 acres in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
15.7 acres in SE¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
21.0 acres in NE¼ SE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
6.0 acres in SE¼ SE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
197.2 acres - total. (Randolph Ranch)

22.3 acres in SE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
1.3 acres in SW¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
29.7 acres in NE¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
7.4 acres in NW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
60.7 acres - total. (Sierraville Ranch)

A. C. Joy (Map Sheet 6)

0.4 acre in SW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.4 acre - total.

G. J. Knuthson (Map Sheet 6)

1.2 acres in SE¼ NE¼ of Section 31, T. 21 N., R. 14 E., M.D.B.&M.
1.2 acres - total.

P. Kofford (Map Sheet 6)

0.5 acre in SW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.5 acre - total.

TABLE 1 (Cont'd)

C. D. Laffranchini (Map Sheet 3)

2.8	acres in	NW¼ SW¼	of Section	5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
36.8	acres in	NE¼ SE¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ SE¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
35.1	acres in	NW¼ SE¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
22.2	acres in	NE¼ SW¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
30.1	acres in	SE¼ SW¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
2.9	acres in	SW¼ SW¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
24.0	acres in	NE¼ NE¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
10.9	acres in	SE¼ NE¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
39.4	acres in	SW¼ NE¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NW¼ NE¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NE¼ NW¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
39.6	acres in	SW¼ NW¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
38.8	acres in	NW¼ NW¼	of Section	7,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
35.0	acres in	NW¼ SW¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
18.0	acres in	SW¼ NW¼	of Section	6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SW¼ NW¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
15.0	acres in	NW¼ SW¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.0	acres in	NE¼ SW¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
32.0	acres in	NW¼ SE¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	NE¼ SE¼	of Section	1,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section	2,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section	2,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
885.6	acres - total.						

C. D. and L. A. Laffranchini (Map Sheets 2 and 3)

21.6	acres in	SE¼ NW¼	of Section	2,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.2	acres in	SW¼ NW¼	of Section	2,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
13.7	acres in	NW¼ NW¼	of Section	2,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.0	acres in	NE¼ NE¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.8	acres in	SE¼ NE¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
14.2	acres in	SW¼ NE¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
40.0	acres in	NW¼ NE¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
30.0	acres in	NE¼ NW¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
0.2	acre in	SE¼ NW¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
7.3	acres in	NW¼ NW¼	of Section	3,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
17.7	acres in	SW¼ SE¼	of Section	34,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
259.7	acres - total. (Wherity Ranch)						

3.3	acres in	SE¼ NE¼	of Section	32,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
36.7	acres in	NE¼ SE¼	of Section	32,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
1.5	acres in	SE¼ SE¼	of Section	32,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
15.2	acres in	SW¼ SE¼	of Section	32,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
26.2	acres in	NW¼ SE¼	of Section	32,	T. 23 N.,	R. 15 E.,	M.D.B.&M.
21.9	acres in	NE¼ SW¼	of Section	32,	T. 23 N.,	R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

C. D. and L. A. Laffranchini (Cont'd)

24.5 acres in SE¼ SW¼ of Section 32, T. 23 N., R. 15 E., M.D.B.&M.
26.7 acres in SW¼ SW¼ of Section 32, T. 23 N., R. 15 E., M.D.B.&M.
6.4 acres in NW¼ SW¼ of Section 32, T. 23 N., R. 15 E., M.D.B.&M.
0.5 acre in NE¼ SE¼ of Section 31, T. 23 N., R. 15 E., M.D.B.&M.
30.2 acres in SE¼ SE¼ of Section 31, T. 23 N., R. 15 E., M.D.B.&M.
35.3 acres in SW¼ SE¼ of Section 31, T. 23 N., R. 15 E., M.D.B.&M.
*0.5 acre in NW¼ SE¼ of Section 31, T. 23 N., R. 15 E., M.D.B.&M.
2.1 acres in NW¼ NE¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.
231.0 acres - total. (Dedmon Ranch)
*Denotes land outside of property line.

L. A. Laffranchini (Map Sheet 2)

12.0 acres in SE¼ SE¼ of Section 13, T. 23 N., R. 15 E., M.D.B.&M.
7.0 acres in SW¼ SE¼ of Section 13, T. 23 N., R. 15 E., M.D.B.&M.
2.5 acres in NE¼ SE¼ of Section 23, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 23, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 23, T. 23 N., R. 15 E., M.D.B.&M.
8.0 acres in NW¼ SE¼ of Section 23, T. 23 N., R. 15 E., M.D.B.&M.
26.0 acres in NE¼ NE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
37.0 acres in SE¼ NE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
36.5 acres in SW¼ NE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
16.5 acres in NW¼ NE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
*3.5 acres in SE¼ NW¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
39.0 acres in NE¼ SE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
32.5 acres in NE¼ SW¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
13.5 acres in NW¼ SW¼ of Section 24, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 25, T. 23 N., R. 15 E., M.D.B.&M.
37.5 acres in NW¼ NE¼ of Section 25, T. 23 N., R. 15 E., M.D.B.&M.
1.5 acres in NE¼ NW¼ of Section 25, T. 23 N., R. 15 E., M.D.B.&M.
20.0 acres in NW¼ NW¼ of Section 25, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 26, T. 23 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 26, T. 23 N., R. 15 E., M.D.B.&M.
5.5 acres in NW¼ SW¼ of Section 19, T. 23 N., R. 16 E., M.D.B.&M.
32.0 acres in SW¼ SW¼ of Section 19, T. 23 N., R. 16 E., M.D.B.&M.
38.0 acres in NW¼ NW¼ of Section 30, T. 23 N., R. 16 E., M.D.B.&M.
768.5 acres - total.
*Denotes land outside of property line.

Mary C. Laffranchini (Map Sheet 4)

20.7 acres in NW¼ NW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
21.3 acres in SW¼ NW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
15.1 acres in NW¼ SW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M

Mary C. Laffranchini (Cont'd)

33.9 acres in SW¼ SW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
6.4 acres in NE¼ NE¼ of Section 30, T. 21 N., R. 16 E., M.D.B.&M.
15.5 acres in SE¼ NE¼ of Section 30, T. 21 N., R. 16 E., M.D.B.&M.
21.8 acres in NE¼ SE¼ of Section 30, T. 21 N., R. 16 E., M.D.B.&M.
4.0 acres in SE¼ SE¼ of Section 30, T. 21 N., R. 16 E., M.D.B.&M.
34.9 acres in NE¼ NW¼ of Section 32, T. 21 N., R. 16 E., M.D.B.&M.
5.4 acres in NW¼ NW¼ of Section 32, T. 21 N., R. 16 E., M.D.B.&M.
20.9 acres in SE¼ NW¼ of Section 32, T. 21 N., R. 16 E., M.D.B.&M.
1.2 acres in NE¼ SW¼ of Section 32, T. 21 N., R. 16 E., M.D.B.&M.
201.1 acres - total. (Turner Ranch)

George Liechty (Map Sheet 6)

0.6 acre in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
0.6 acre - total.

S. G. Linebaugh (Map Sheet 5)

1.3 acres in NE¼ NW¼ of Section 30, T. 20 N., R. 15 E., M.D.B.&M.
1.7 acres in SE¼ NW¼ of Section 30, T. 20 N., R. 15 E., M.D.B.&M.
3.0 acres in SW¼ NE¼ of Section 30, T. 20 N., R. 15 E., M.D.B.&M.
0.8 acre in SE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.5 acre in SW¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
7.3 acres - total.

Caeser P. Lombardi (Map Sheet 4)

21.4 acres in NE¼ NW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
29.3 acres in NW¼ NW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
23.0 acres in SW¼ NW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
39.8 acres in SE¼ NW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
0.5 acre in SW¼ NE¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
23.2 acres in NE¼ SW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
22.6 acres in NW¼ SW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
23.1 acres in SW¼ SW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
11.4 acres in SE¼ SW¼ of Section 16, T. 21 N., R. 15 E., M.D.B.&M.
20.6 acres in NW¼ NW¼ of Section 21, T. 21 N., R. 15 E., M.D.B.&M.
3.8 acres in SW¼ NW¼ of Section 21, T. 21 N., R. 15 E., M.D.B.&M.
10.8 acres in NE¼ SW¼ of Section 21, T. 21 N., R. 15 E., M.D.B.&M.
2.2 acres in NW¼ SW¼ of Section 21, T. 21 N., R. 15 E., M.D.B.&M.
231.7 acres - total. (Antelope Creek)

Louis S. Lombardi (Map Sheet 4)

5.5 acres in SW¼ NE¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
27.7 acres in NW¼ SE¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
7.9 acres in SW¼ SE¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
1.0 acre in NW¼ SW¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
2.0 acres in SW¼ SW¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
27.3 acres in SE¼ SW¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
15.8 acres in NE¼ SW¼ of Section 10, T. 21 N., R. 15 E., M.D.B.&M.
87.2 acres - total. (Rocky Point Ranch)

TABLE 1 (Cont'd)

A. D. Maddalena (Map Sheet 2)

4.0	acres in NW¼ NE¼ of Section 29, T. 23 N., R. 15 E., M.D.B.&M.	
1.0	acres in SW¼ NE¼ of Section 29, T. 23 N., R. 15 E., M.D.B.&M.	
28.0	acres in NE¼ NW¼ of Section 29, T. 23 N., R. 15 E., M.D.B.&M.	
15.5	acres in SE¼ NW¼ of Section 29, T. 23 N., R. 15 E., M.D.B.&M.	
16.0	acres in SW¼ NW¼ of Section 29, T. 23 N., R. 15 E., M.D.B.&M.	
21.0	acres in NW¼ NW¼ of Section 29, T. 23 N., R. 15 E., M.D.B.&M.	
11.0	acres in NE¼ NE¼ of Section 30, T. 23 N., R. 15 E., M.D.B.&M.	
26.0	acres in SE¼ NE¼ of Section 30, T. 23 N., R. 15 E., M.D.B.&M.	
122.5	acres - total.	

L. D. Maddalena (Map Sheet 2)

14.0	acres in NE¼ SW¼ of Section 22, T. 23 N., R. 15 E., M.D.B.&M.	
25.0	acres in SE¼ SW¼ of Section 22, T. 23 N., R. 15 E., M.D.B.&M.	
28.0	acres in SW¼ SE¼ of Section 22, T. 23 N., R. 15 E., M.D.B.&M.	
1.5	acres in SE¼ SE¼ of Section 22, T. 23 N., R. 15 E., M.D.B.&M.	
7.5	acres in NE¼ NE¼ of Section 27, T. 23 N., R. 15 E., M.D.B.&M.	
27.5	acres in NW¼ NE¼ of Section 27, T. 23 N., R. 15 E., M.D.B.&M.	
5.5	acres in NE¼ NW¼ of Section 27, T. 23 N., R. 15 E., M.D.B.&M.	
109.0	acres - total. (Home Ranch)	

(Map Sheets 2 and 3)

31.8	acres in SE¼ SW¼ of Section 31, T. 23 N., R. 15 E., M.D.B.&M.	
19.2	acres in S½ Lot 2 SW¼ Section 31, T. 23 N., R. 15 E., M.D.B.&M.	
26.5	acres in NE¼ NW¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.	
34.6	acres in Lot 1, Section 6, T. 22 N., R. 15 E., M.D.B.&M.	
35.0	acres in Lot 2, Section 6, T. 22 N., R. 15 E., M.D.B.&M.	
25.3	acres in SE¼ NW¼ of Section 6, T. 22 N., R. 15 E., M.D.B.&M.	
172.4	acres - total.	

Delia Martinetti (Map Sheet 6)

40.0	acres in SW¼ NW¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.	
39.6	acres in NW¼ SW¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.	
40.0	acres in SE¼ NE¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.	
40.0	acres in NE¼ SE¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.	
40.0	acres in SW¼ SE¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.	
40.0	acres in SE¼ SW¼ of Section 3, T. 20 N., R. 14 E., M.D.B.&M.	
4.4	acres in NW¼ NE¼ of Section 10, T. 20 N., R. 14 E., M.D.B.&M.	
40.0	acres in NE¼ NW¼ of Section 10, T. 20 N., R. 14 E., M.D.B.&M.	
40.0	acres in NW¼ NW¼ of Section 10, T. 20 N., R. 14 E., M.D.B.&M.	
28.5	acres in SW¼ NW¼ of Section 10, T. 20 N., R. 14 E., M.D.B.&M.	
38.9	acres in SE¼ NW¼ of Section 10, T. 20 N., R. 14 E., M.D.B.&M.	
2.0	acres in NE¼ SW¼ of Section 10, T. 20 N., R. 14 E., M.D.B.&M.	
37.5	acres in NE¼ NE¼ of Section 9, T. 20 N., R. 14 E., M.D.B.&M.	
38.4	acres in NW¼ NE¼ of Section 9, T. 20 N., R. 14 E., M.D.B.&M.	
6.9	acres in SW¼ NE¼ of Section 9, T. 20 N., R. 14 E., M.D.B.&M.	
11.3	acres in SE¼ NE¼ of Section 9, T. 20 N., R. 14 E., M.D.B.&M.	
487.5	acres - total.	

Marie Matterolo (Map Sheet 5)

34.0 acres	in SW¼ SW¼ of Section 17, T. 20 N., R. 15 E.,	M.D.B.&M.
31.5 acres	in NE¼ SE¼ of Section 18, T. 20 N., R. 15 E.,	M.D.B.&M.
40.0 acres	in SE¼ SE¼ of Section 18, T. 20 N., R. 15 E.,	M.D.B.&M.
4.5 acres	in SW¼ SE¼ of Section 18, T. 20 N., R. 15 E.,	M.D.B.&M.
19.0 acres	in NE¼ NE¼ of Section 19, T. 20 N., R. 15 E.,	M.D.B.&M.
6.0 acres	in NW¼ NE¼ of Section 19, T. 20 N., R. 15 E.,	M.D.B.&M.
0.3 acre	in NE¼ NW¼ of Section 19, T. 20 N., R. 15 E.,	M.D.B.&M.
7.9 acres	in NE¼ NW¼ of Section 20, T. 20 N., R. 15 E.,	M.D.B.&M.
22.5 acres	in NW¼ NW¼ of Section 20, T. 20 N., R. 15 E.,	M.D.B.&M.
1.0 acre	in SW¼ NW¼ of Section 20, T. 20 N., R. 15 E.,	M.D.B.&M.
166.7 acres - total.		

J. B. Matley (Map Sheet 6)

35.8 acres	in SE¼ NE¼ of Section 1, T. 21 N., R. 14 E.,	M.D.B.&M.
28.7 acres	in SW¼ NE¼ of Section 1, T. 21 N., R. 14 E.,	M.D.B.&M.
35.8 acres	in SE¼ NW¼ of Section 1, T. 21 N., R. 14 E.,	M.D.B.&M.
34.0 acres	in SW¼ NW¼ of Section 1, T. 21 N., R. 14 E.,	M.D.B.&M.
134.3 acres - total.		

John A. McIntosh (Map Sheet 6)

1.0 acre	in NE¼ NE¼ of Section 13, T. 20 N., R. 14 E.,	M.D.B.&M.
1.0 acre - total.		

Elizabeth McKenzie (Map Sheet 6)

1.3 acres	in SE¼ SW¼ of Section 13, T. 20 N., R. 14 E.,	M.D.B.&M.
1.2 acres	in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E.,	M.D.B.&M.
0.5 acre	in NE¼ NW¼ of Section 24, T. 20 N., R. 14 E.,	M.D.B.&M.
3.0 acres - total.		

B. F. and C. B. Meyers (Map Sheet 6)

36.8 acres	in NE¼ SE¼ of Section 34, T. 21 N., R. 14 E.,	M.D.B.&M.
6.0 acres	in SE¼ SE¼ of Section 34, T. 21 N., R. 14 E.,	M.D.B.&M.
40.0 acres	in NW¼ SW¼ of Section 35, T. 21 N., R. 14 E.,	M.D.B.&M.
33.4 acres	in SW¼ SW¼ of Section 35, T. 21 N., R. 14 E.,	M.D.B.&M.
40.0 acres	in NW¼ NE¼ of Section 2, T. 20 N., R. 14 E.,	M.D.B.&M.
11.0 acres	in NE¼ NW¼ of Section 2, T. 20 N., R. 14 E.,	M.D.B.&M.
167.2 acres - total.		

Anna B. Miller (Map Sheet 5)

8.5 acres	in SW¼ SW¼ of Section 8, T. 20 N., R. 15 E.,	M.D.B.&M.
1.7 acres	in SE¼ SW¼ of Section 16, T. 20 N., R. 15 E.,	M.D.B.&M.
5.0 acres	in SW¼ SW¼ of Section 16, T. 20 N., R. 15 E.,	M.D.B.&M.
5.1 acres	in SW¼ NE¼ of Section 17, T. 20 N., R. 15 E.,	M.D.B.&M.
10.2 acres	in NE¼ NW¼ of Section 17, T. 20 N., R. 15 E.,	M.D.B.&M.
37.7 acres	in NW¼ NW¼ of Section 17, T. 20 N., R. 15 E.,	M.D.B.&M.
40.0 acres	in SW¼ NW¼ of Section 17, T. 20 N., R. 15 E.,	M.D.B.&M.
33.0 acres	in SE¼ NW¼ of Section 17, T. 20 N., R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

Anna B. Miller (Map Sheet 5) (Cont'd)

27.0 acres in NE¼ SW¼ of Section 17, T. 20 N., R. 15 E., M.D.B.&M.
3.4 acres in SE¼ SW¼ of Section 17, T. 20 N., R. 15 E., M.D.B.&M.
38.5 acres in NW¼ SW¼ of Section 17, T. 20 N., R. 15 E., M.D.B.&M.
28.0 acres in NW¼ SE¼ of Section 17, T. 20 N., R. 15 E., M.D.B.&M.
4.0 acres in NE¼ SE¼ of Section 17, T. 20 N., R. 15 E., M.D.B.&M.
242.1 acres - total. (Blinman Ranch)

40.0 acres in NE¼ NE¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
39.8 acres in NW¼ NE¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
37.5 acres in SW¼ NE¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
38.0 acres in SE¼ NE¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
6.3 acres in NE¼ NW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
12.5 acres in SE¼ NW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
*10.6 acres in NE¼ SW¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
*1.8 acres in NW¼ SE¼ of Section 18, T. 20 N., R. 15 E., M.D.B.&M.
186.5 acres - total. (Himes Ranch)
*Denotes land outside of property line.

(Map Sheet 6)

1.8 acres in SE¼ SW¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
15.0 acres in SW¼ SE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
4.0 acres in SE¼ SE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
7.8 acres in NE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
30.8 acres in NW¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
29.4 acres in SW¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
37.0 acres in NE¼ NW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
35.0 acres in NW¼ NW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
23.0 acres in SW¼ NW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
31.6 acres in NE¼ SW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
16.1 acres in SE¼ SW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
7.0 acres in SW¼ SW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
14.0 acres in NW¼ SW¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
18.6 acres in NW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
9.0 acres in SW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
320.1 acres - total. (Home Ranch)

(Map Sheet 6)

40.0 acres in SW¼ NE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
39.0 acres in SE¼ NE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
39.0 acres in NE¼ SE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
31.0 acres in SE¼ SE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
14.0 acres in SW¼ SE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 11, T. 20 N., R. 14 E., M.D.B.&M.
11.4 acres in NE¼ NE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 14, T. 20 N., R. 14 E., M.D.B.&M.
254.4 acres - total. (Fair Grounds Tract)

(Map Sheet 6)

34.7 acres in NE¼ SE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.

Anna B. Miller (Map Sheet 6) (Cont'd)

40.0 acres in NW¼ SE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
39.8 acres in SE¼ SE¼ of Section 35, T. 21 N., R. 14 E., M.D.B.&M.
20.0 acres in NW¼ NE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
20.0 acres in SE¼ NE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
39.0 acres in SW¼ NW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
22.5 acres in NE¼ NE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
16.3 acres in SE¼ NE¼ of Section 12, T. 20 N., R. 14 E., M.D.B.&M.
592.3 acres - total. (Mounds Swamp Ranch)

38.6 acres in SE¼ NE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
39.4 acres in NE¼ SE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ SW¼ of Section 2, T. 20 N., R. 14 E., M.D.B.&M.
238.0 acres - total. (Hamlin Creek Lands)

Thomas E. Miller (Map Sheet 6)

0.2 acre in SE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.7 acre in SW¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
0.9 acre - total.

James W. Morgan (Map Sheet 6)

20.0 acres in NE¼ SW¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
8.3 acres in NW¼ SW¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
17.2 acres in SW¼ SW¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
22.2 acres in SE¼ SW¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
67.7 acres - total. (Webber Creek Ranch)

10.3 acres in NE¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
6.6 acres in NW¼ SE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
16.9 acres - total. (Sierraville Ranch)

V. Nelson (Map Sheet 7)

17.0 acres in NW¼ SE¼ of Section 11, T. 22 N., R. 14 E., M.D.B.&M.
7.0 acres in SW¼ SE¼ of Section 11, T. 22 N., R. 14 E., M.D.B.&M.
18.0 acres in NE¼ SW¼ of Section 11, T. 22 N., R. 14 E., M.D.B.&M.
12.0 acres in SE¼ SW¼ of Section 11, T. 22 N., R. 14 E., M.D.B.&M.
15.0 acres in SW¼ SW¼ of Section 11, T. 22 N., R. 14 E., M.D.B.&M.
9.0 acres in NE¼ NE¼ of Section 15, T. 22 N., R. 14 E., M.D.B.&M.
78.0 acres - total.

TABLE 1 (Cont'd)

Battista Pasquetti (Map Sheet 6)

34.0	acres in	SE¼ SE¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
11.2	acres in	NE¼ NE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
30.9	acres in	NW¼ NE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
28.8	acres in	SW¼ NE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
1.5	acres in	SE¼ NE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
4.6	acres in	NE¼ SE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
22.4	acres in	NW¼ SE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
18.8	acres in	SW¼ SE¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.2	acres in	NE¼ NW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
33.1	acres in	NW¼ NW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
22.5	acres in	SW¼ NW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.5	acres in	SE¼ NW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
38.6	acres in	NE¼ SW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
22.9	acres in	NW¼ SW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
39.7	acres in	SW¼ SW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
35.5	acres in	SE¼ SW¼	of Section 26,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
421.2	acres - total.					

Isolina Pasquetti (Map Sheet 6)

7.0	acres in	NE¼ SE¼	of Section 21,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
21.0	acres in	SE¼ SE¼	of Section 21,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
5.0	acres in	NW¼ SW¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
20.0	acres in	SW¼ SW¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
6.6	acres in	NE¼ SW¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
35.7	acres in	NE¼ SE¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
18.1	acres in	NW¼ SE¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
22.3	acres in	SW¼ SE¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
37.7	acres in	SE¼ SE¼	of Section 22,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
33.0	acres in	SW¼ SW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SE¼ SW¼	of Section 23,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
39.0	acres in	NE¼ NE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
27.5	acres in	NW¼ NE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
28.0	acres in	SE¼ NE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
39.0	acres in	NE¼ SE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NW¼ SE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SW¼ SE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SE¼ SE¼	of Section 27,	T. 21 N.,	R. 14 E.,	M.D.B.&M.
539.9	acres - total.					

J. H. Pearce (Map Sheet 6)

0.3	acre in	NW¼ NE¼	of Section 24,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
0.3	acre - total.					

Plumas Logging and Transportation Company (Map Sheet 4)

16.4	acres in	NE¼ NE¼	of Section 19,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
23.1	acres in	SE¼ NE¼	of Section 19,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
35.0	acres in	NE¼ SE¼	of Section 19,	T. 21 N.,	R. 16 E.,	M.D.B.&M.
22.9	acres in	NW¼ SE¼	of Section 19,	T. 21 N.,	R. 16 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

Plumas Logging and Transportation Company (Cont'd)

2.7 acres	in SW¼ SE¼ of Section 19, T. 21 N., R. 16 E.,	M.D.B.&M.
32.1 acres	in SE¼ SE¼ of Section 19, T. 21 N., R. 16 E.,	M.D.B.&M.
5.1 acres	in NW¼ SW¼ of Section 20, T. 21 N., R. 16 E.,	M.D.B.&M.
23.0 acres	in SW¼ SW¼ of Section 20, T. 21 N., R. 16 E.,	M.D.B.&M.
4.4 acres	in NE¼ NE¼ of Section 30, T. 21 N., R. 16 E.,	M.D.B.&M.
164.7 acres - total.		

Adelina Ramelli (Map Sheet 1)

14.3 acres	in SE¼ SW¼ of Section 30, T. 24 N., R. 16 E.,	M.D.B.&M.
*3.0 acres	in Lot 3 Section 30, T. 24 N., R. 16 E.,	M.D.B.&M.
12.8 acres	in Lot 4 Section 30, T. 24 N., R. 16 E.,	M.D.B.&M.
16.2 acres	in NE¼ NW¼ of Section 31, T. 24 N., R. 16 E.,	M.D.B.&M.
*1.3 acres	in Lot 1 Section 31, T. 24 N., R. 16 E.,	M.D.B.&M.
11.5 acres	in NE¼ SE¼ of Section 25, T. 24 N., R. 15 E.,	M.D.B.&M.
15.8 acres	in SE¼ SE¼ of Section 25, T. 24 N., R. 15 E.,	M.D.B.&M.
1.3 acres	in SW¼ SE¼ of Section 25, T. 24 N., R. 15 E.,	M.D.B.&M.
76.2 acres - total. (Frenchman Creek)		

(Map Sheet 2)

39.2 acres	in SW¼ SE¼ of Section 28, T. 23 N., R. 16 E.,	M.D.B.&M.
20.0 acres	in SE¼ SE¼ of Section 28, T. 23 N., R. 16 E.,	M.D.B.&M.
38.6 acres	in NW¼ NW¼ of Section 34, T. 23 N., R. 16 E.,	M.D.B.&M.
11.0 acres	in SW¼ NW¼ of Section 34, T. 23 N., R. 16 E.,	M.D.B.&M.
32.1 acres	in NE¼ NE¼ of Section 33, T. 23 N., R. 16 E.,	M.D.B.&M.
27.5 acres	in NW¼ NE¼ of Section 33, T. 23 N., R. 16 E.,	M.D.B.&M.
22.5 acres	in SE¼ NE¼ of Section 33, T. 23 N., R. 16 E.,	M.D.B.&M.
8.1 acres	in NE¼ SE¼ of Section 33, T. 23 N., R. 16 E.,	M.D.B.&M.
15.0 acres	in SE¼ SW¼ of Section 33, T. 23 N., R. 16 E.,	M.D.B.&M.
214.0 acres - total. (Vinton Ranch)		

Alessio Ramelli (Map Sheet 1)

5.7 acres	in NW¼ SE¼ of Section 19, T. 25 N., R. 16 E.,	M.D.B.&M.
0.8 acre	in NE¼ SE¼ of Section 19, T. 25 N., R. 16 E.,	M.D.B.&M.
*1.4 acres	in SE¼ SE¼ of Section 19, T. 25 N., R. 16 E.,	M.D.B.&M.
14.7 acres	in SE¼ NE¼ of Section 30, T. 25 N., R. 16 E.,	M.D.B.&M.
6.0 acres	in SW¼ NE¼ of Section 30, T. 25 N., R. 16 E.,	M.D.B.&M.
*2.2 acres	in NE¼ SE¼ of Section 30, T. 25 N., R. 16 E.,	M.D.B.&M.
*0.4 acre	in SE¼ SE¼ of Section 30, T. 25 N., R. 16 E.,	M.D.B.&M.
*5.7 acres	in SW¼ NW¼ of Section 29, T. 25 N., R. 16 E.,	M.D.B.&M.
35.9 acres	in NW¼ SW¼ of Section 29, T. 25 N., R. 16 E.,	M.D.B.&M.
31.9 acres	in SW¼ SW¼ of Section 29, T. 25 N., R. 16 E.,	M.D.B.&M.
14.8 acres	in NE¼ SW¼ of Section 29, T. 25 N., R. 16 E.,	M.D.B.&M.
28.9 acres	in SE¼ SW¼ of Section 29, T. 25 N., R. 16 E.,	M.D.B.&M.
1.3 acres	in SW¼ SE¼ of Section 29, T. 25 N., R. 16 E.,	M.D.B.&M.
0.5 acre	in NE¼ NW¼ of Section 32, T. 25 N., R. 16 E.,	M.D.B.&M.
1.2 acres	in NW¼ NE¼ of Section 32, T. 25 N., R. 16 E.,	M.D.B.&M.
151.4 acres - total. (Little Last Chance Ranch)		

*Denotes land outside of property line.

TABLE 1 (Cont'd)

Alessio Ramelli (Cont'd)

(Map Sheets 2 and 3)

2.3	acres in NE¼ NW¼	of Section 4,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
29.2	acres in NW¼ NW¼	of Section 4,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in NE¼ SE¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in SE¼ SE¼	of Section 32,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
26.8	acres in SW¼ NE¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
38.6	acres in SE¼ NW¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
20.0	acres in SW¼ NW¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in NE¼ SW¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in NW¼ SW¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
37.9	acres in SW¼ SW¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
36.4	acres in NW¼ SE¼	of Section 33,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
340.4	acres - total. (Vinton Ranch)				

Amelia D. Ramelli (Map Sheet 3)

21.8	acres in SW¼ NE¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
32.0	acres in SE¼ NW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
9.9	acres in SW¼ NW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
16.3	acres in NE¼ SW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
11.8	acres in NW¼ SW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
8.8	acres in SW¼ SW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
27.8	acres in SE¼ SW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
7.4	acres in SW¼ SE¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
135.8	acres - total. (Last Chance Lake Ranch)				

(Map Sheets 3 and 4)

37.5	acres in NE¼ NE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.5	acres in NW¼ NE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
35.0	acres in SW¼ NE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.0	acres in SE¼ NE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
16.6	acres in NE¼ SE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
11.0	acres in NW¼ SE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
10.0	acres in SW¼ SE¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
37.0	acres in NW¼ NW¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
37.7	acres in SW¼ NW¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
37.4	acres in NE¼ SW¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
39.0	acres in NW¼ SW¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
14.8	acres in SW¼ SW¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
34.5	acres in SE¼ SW¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.1	acres in NW¼ SE¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
20.4	acres in SW¼ SE¼	of Section 34,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
7.0	acres in NE¼ NW¼	of Section 3,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
435.5	acres - total. (Home Ranch)				

(Map Sheet 3)

33.7	acres in NW¼ NW¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
38.6	acres in SW¼ NW¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
26.5	acres in SE¼ NW¼	of Section 33,	T. 22 N.,	R. 15 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

Amelia D. Ramelli (Cont'd)

33.0 acres in NE¼ NW¼ of Section 33, T. 22 N., R. 15 E., M.D.B.&M.
27.5 acres in NE¼ SW¼ of Section 33, T. 22 N., R. 15 E., M.D.B.&M.
38.5 acres in NW¼ SW¼ of Section 33, T. 22 N., R. 15 E., M.D.B.&M.
29.3 acres in SW¼ SW¼ of Section 33, T. 22 N., R. 15 E., M.D.B.&M.
19.0 acres in SE¼ SW¼ of Section 33, T. 22 N., R. 15 E., M.D.B.&M.
246.1 acres - total. (River Ranch)

J. S. Rees (Map Sheet 4)

22.0 acres in NE¼ NW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
36.0 acres in NW¼ NW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
7.0 acres in SW¼ NW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
15.0 acres in SE¼ NW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
38.5 acres in NE¼ SW¼ of Section 18, T. 21 N., R. 16 E., M.D.B.&M.
35.4 acres in SE¼ SW¼ of Section 18, T. 21 N., R. 1 E., M.D.B.&M.
38.3 acres in NE¼ NW¼ of Section 19, T. 21 N., R. 16 E., M.D.B.&M.
20.4 acres in SE¼ NW¼ of Section 19, T. 21 N., R. 16 E., M.D.B.&M.
212.6 acres - total.

Josephine Roberti (Map Sheet 3)

39.8 acres in NE¼ SW¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
32.8 acres in SW¼ SW¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 2, T. 22 N., R. 15 E., M.D.B.&M.
25.0 acres in NE¼ SE¼ of Section 3, T. 22 N., R. 15 E., M.D.B.&M.
2.3 acres in SE¼ SE¼ of Section 3, T. 22 N., R. 15 E., M.D.B.&M.
17.0 acres in NE¼ NW¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
4.0 acres in NW¼ NW¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
200.9 acres - total. (Wherity Ranch)

38.4 acres in NE¼ SE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
34.0 acres in SE¼ SE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
26.8 acres in SW¼ SE¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
33.6 acres in NW¼ SE¼ of Section 11, T. 22 N., R. 1 E., M.D.B.&M.
15.5 acres in NE¼ SW¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
35.1 acres in SE¼ SW¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
0.2 acre in NW¼ SW¼ of Section 11, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 12, T. 22 N., R. 15 E., M.D.B.&M.
22.7 acres in NW¼ NW¼ of Section 13, T. 22 N., R. 15 E., M.D.B.&M.
12.4 acres in NE¼ NE¼ of Section 14, T. 22 N., R. 15 E., M.D.B.&M.
2.6 acres in NW¼ NE¼ of Section 14, T. 22 N., R. 15 E., M.D.B.&M.
10.4 acres in NE¼ NW¼ of Section 14, T. 22 N., R. 15 E., M.D.B.&M.
311.7 acres - total. (Home Ranch)

6.2 acres in NW¼ NW¼ of Section 10, T. 22 N., R. 15 E., M.D.B.&M.
4.8 acres in SW¼ NW¼ of Section 10, T. 22 N., R. 15 E., M.D.B.&M.
11.0 acres - total. (Last Chance Lake)

TABLE 1 (Cont'd)

C. C. Rowland (Map Sheet 1)

*5.0	acres in	SW¼ NE¼	of Section 13,	T. 25 N.,	R. 15 E.,	M.D.B.&M.
17.2	acres in	SE¼ NE¼	of Section 13,	T. 25 N.,	R. 15 E.,	M.D.B.&M.
4.5	acres in	SE¼ SW¼	of Section 7,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
3.0	acres in	SW¼ SE¼	of Section 7,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
8.5	acres in	NW¼ NE¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
8.8	acres in	SW¼ NE¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
18.0	acres in	NE¼ NW¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
20.3	acres in	Lot 2	Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
36.6	acres in	SE¼ NW¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
38.4	acres in	NE¼ SW¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
22.0	acres in	Lot 3	Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
10.6	acres in	Lot 4	Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
29.0	acres in	SE¼ SW¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
2.3	acres in	NW¼ SE¼	of Section 18,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
*2.5	acres in	NW¼ NE¼	of Section 19,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
2.0	acres in	SW¼ NE¼	of Section 19,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
9.4	acres in	NE¼ NW¼	of Section 19,	T. 25 N.,	R. 16 E.,	M.D.B.&M.
238.1	acres - total.					

*Denotes land outside of property line.

Louisa Scolari (Map Sheet 3)

24.0	acres in	NE¼ NE¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
8.1	acres in	NW¼ NE¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
14.9	acres in	SE¼ NE¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
1.3	acres in	NE¼ NW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
3.2	acres in	NW¼ NW¼	of Section 9,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
51.5	acres - total.	(Last Chance Lake)				

30.8	acres in	NW¼ SW¼	of Section 8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
37.1	acres in	SW¼ SW¼	of Section 8,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
23.1	acres in	NE¼ NW¼	of Section 17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
33.4	acres in	NW¼ NW¼	of Section 17,	T. 22 N.,	R. 15 E.,	M.D.B.&M.
124.4	acres - total.	(Home Ranch)				

Sierra Valley Bank (Map Sheet 4)

30.9	acres in	SE¼ SE¼	of Section 10,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
2.6	acres in	SW¼ SW¼	of Section 11,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
13.3	acres in	NW¼ NW¼	of Section 14,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
11.4	acres in	NE¼ NE¼	of Section 15,	T. 21 N.,	R. 15 E.,	M.D.B.&M.
58.2	acres - total.					

F. E. Small (Map Sheet 6)

1.8	acres in	SE¼ SW¼	of Section 13,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
1.8	acres - total.					

Guy Sobrio (Map Sheet 2)

40.0	acres in	SE¼ SW¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ SW¼	of Section 23,	T. 23 N.,	R. 16 E.,	M.D.B.&M.

TABLE 1 (Cont'd)

Guy Sobrio (Cont'd)

29.2	acres in	NE¼ NW¼	of Section 26,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
1.1	acres in	SE¼ NW¼	of Section 26,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
29.4	acres in	SW¼ NW¼	of Section 26,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	NW¼ NW¼	of Section 26,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
7.4	acres in	NW¼ SW¼	of Section 26,	T. 23 N.,	R. 16 E.,	M.D.B.&M.
187.1	acres - total.					

Annetta Solari (Map Sheet 3)

31.7	acres in	NW¼ NE¼	of Section 5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
37.9	acres in	SW¼ NE¼	of Section 5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
38.5	acres in	NE¼ NW¼	of Section 5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section 5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SW¼ NW¼	of Section 5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
38.5	acres in	NW¼ NW¼	of Section 5,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
38.7	acres in	NE¼ NE¼	of Section 6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
38.1	acres in	SE¼ NE¼	of Section 6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
14.6	acres in	SW¼ NE¼	of Section 6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
37.6	acres in	NW¼ NE¼	of Section 6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
39.4	acres in	NE¼ NW¼	of Section 6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
40.0	acres in	SE¼ NW¼	of Section 6,	T. 22 N.,	R. 16 E.,	M.D.B.&M.
435.0	acres - total.					

A. E. Strang (Map Sheet 6)

40.0	acres in	SE¼ SW¼	of Section 2,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SW¼ SW¼	of Section 2,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SE¼ SE¼	of Section 3,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
9.0	acres in	SE¼ NE¼	of Section 9,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	NE¼ NE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
35.6	acres in	NW¼ NE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SW¼ NE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
40.0	acres in	SE¼ NE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
8.5	acres in	SW¼ NW¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
0.2	acre in	SE¼ NW¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
36.3	acres in	NE¼ SW¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
35.5	acres in	NW¼ SW¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
16.4	acres in	SW¼ SW¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
28.4	acres in	SE¼ SW¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
36.2	acres in	NE¼ SE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
37.4	acres in	NW¼ SE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
3.7	acres in	SW¼ SE¼	of Section 10,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
37.5	acres in	NE¼ NW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
39.4	acres in	NW¼ NW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
36.0	acres in	SW¼ NW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
3.0	acres in	SE¼ NW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
24.0	acres in	NW¼ SW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
13.0	acres in	NE¼ SW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
33.0	acres in	SE¼ SW¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
16.0	acres in	SW¼ SE¼	of Section 11,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
15.6	acres in	NE¼ NW¼	of Section 15,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
5.4	acres in	SE¼ NW¼	of Section 15,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
18.0	acres in	NW¼ SE¼	of Section 15,	T. 20 N.,	R. 14 E.,	M.D.B.&M.
728.1	acres - Total.					

TABLE 1 (Cont'd)

C. D. Terwilliger (Map Sheet 4)

1.8 acres in SE¼ NW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
18.8 acres in NE¼ SW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
21.8 acres in SE¼ SW¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
2.2 acres in NW¼ SE¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
15.8 acres in SW¼ SE¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
1.3 acres in SE¼ SE¼ of Section 29, T. 21 N., R. 16 E., M.D.B.&M.
0.8 acre in NE¼ NE¼ of Section 32, T. 21 N., R. 16 E., M.D.B.&M.
7.8 acres in NW¼ NE¼ of Section 32, T. 21 N., R. 16 E., M.D.B.&M.
70.3 acres - total.

C. W. Toomey, et al. (Map Sheet 6)

40.0 acres in NE¼ NW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NW¼ of Section 27, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 28, T. 21 N., R. 14 E., M.D.B.&M.
200.0 acres - total.

Giulio Torri, et al. (Map Sheet 6)

5.7 acres in NE¼ NW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
35.4 acres in NW¼ NW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
38.6 acres in SW¼ NW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
22.9 acres in SE¼ NW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
25.7 acres in NE¼ SW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
39.0 acres in NW¼ SW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
34.6 acres in SE¼ SW¼ of Section 36, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
20.0 acres in NW¼ NE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
20.0 acres in SE¼ NE¼ of Section 1, T. 20 N., R. 14 E., M.D.B.&M.
321.9 acres - total.

E. J. Trosi & Dolly Conradt (Map Sheet 4)

12.0 acres in NW¼ NE¼ of Section 25, T. 20 N., R. 16 E., M.D.B.&M.
33.5 acres in SW¼ NE¼ of Section 25, T. 20 N., R. 16 E., M.D.B.&M.
*4.0 acres in SE¼ NE¼ of Section 25, T. 20 N., R. 16 E., M.D.B.&M.
10.0 acres in SE¼ NW¼ of Section 25, T. 20 N., R. 16 E., M.D.B.&M.
*2.0 acres in SW¼ NW¼ of Section 25, T. 20 N., R. 16 E., M.D.B.&M.
11.5 acres in NW¼ SE¼ of Section 25, T. 20 N., R. 16 E., M.D.B.&M.
73.0 acres - total.

Estate of H. A. Turner (Map Sheet 6)

40.0 acres in NE¼ NE¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NE¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.

*Denotes land outside of property line.

TABLE 1 (Cont'd)

Estate of H. A. Turner (Cont'd)

29.9 acres in NW¼ SE¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
189.9 acres - total. (Mounds Ranch)

0.3 acre in NE¼ NW¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
21.1 acres in NW¼ NW¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
6.0 acres in SW¼ NW¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
19.6 acres in SE¼ NW¼ of Section 4, T. 20 N., R. 14 E., M.D.B.&M.
27.5 acres in Lot 1 Section 5, T. 20 N., R. 14 E., M.D.B.&M.
1.5 acres in Lot 2 Section 5, T. 20 N., R. 14 E., M.D.B.&M.
0.5 acre in SW¼ SE¼ of Section 32, T. 21 N., R. 14 E., M.D.B.&M.
20.0 acres in SW¼ SW¼ of Section 32, T. 21 N., R. 14 E., M.D.B.&M.
29.0 acres in SE¼ SW¼ of Section 32, T. 21 N., R. 14 E., M.D.B.&M.
125.5 acres - total. (Home Ranch)

T. K. Turner (Map Sheet 6)

0.2 acre in SW¼ SE¼ of Section 32, T. 21 N., R. 14 E., M.D.B.&M.
0.2 acre - total.

Alice Vanetti (Map Sheets 4 and 6)

4.4 acres in NW¼ NE¼ of Section 18, T. 21 N., R. 15 E., M.D.B.&M.
13.5 acres in SW¼ SE¼ of Section 13, T. 21 N., R. 14 E., M.D.B.&M.
36.3 acres in SE¼ SW¼ of Section 13, T. 21 N., R. 14 E., M.D.B.&M.
39.0 acres in SW¼ SW¼ of Section 13, T. 21 N., R. 14 E., M.D.B.&M.
11.0 acres in SE¼ SE¼ of Section 14, T. 21 N., R. 14 E., M.D.B.&M.
35.8 acres in NE¼ NE¼ of Section 23, T. 21 N., R. 14 E., M.D.B.&M.
37.2 acres in SE¼ NE¼ of Section 23, T. 21 N., R. 14 E., M.D.B.&M.
10.8 acres in NE¼ NW¼ of Section 24, T. 21 N., R. 14 E., M.D.B.&M.
39.4 acres in NW¼ NW¼ of Section 24, T. 21 N., R. 14 E., M.D.B.&M.
227.4 acres - total.

A. A. Viscia (Map Sheet 3)

15.0 acres in Lot 3 Section 30, T. 22 N., R. 15 E., M.D.B.&M.
20.0 acres in Lot 4 Section 30, T. 22 N., R. 15 E., M.D.B.&M.
37.9 acres in SE¼ SW¼ of Section 30, T. 22 N., R. 15 E., M.D.B.&M.
37.4 acres in NE¼ NE¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
34.5 acres in NW¼ NE¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
22.7 acres in SW¼ NE¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
31.4 acres in SE¼ NE¼ of Section 31, T. 22 N., R. 15 E., M.D.B.&M.
198.9 acres - total.

Ella Webber (Map Sheet 6)

3.8 acres in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
3.4 acres in SW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
7.2 acres - total.

TABLE 1 (Cont'd)

Sarie Webber (Map Sheet 6)

1.1 acres in NW¼ NE¼ of Section 24, T. 20 N., R. 14 E., M.D.B.&M.
1.1 acres - total.

Westover Co. (Map Sheet 7)

13.0 acres in NW¼ NW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
1.0 acres in SW¼ SW¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
14.0 acres in SE¼ SE¼ of Section 3, T. 22 N., R. 14 E., M.D.B.&M.
28.0 acres - total. (Falchi Canyon)

37.6 acres in SE¼ SE¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
2.9 acres in SE¼ NE¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
8.3 acres in SW¼ NE¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
0.6 acre in NW¼ NW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
31.9 acres in SW¼ NW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
11.5 acres in SE¼ NW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
37.5 acres in NE¼ SW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ SW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SW¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
36.8 acres in NE¼ SE¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ SE¼ of Section 36, T. 23 N., R. 14 E. M.D.B.&M.
28.6 acres in SW¼ SE¼ of Section 36, T. 23 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ SE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
12.5 acres in SW¼ SE¼ of Section 35, T. 23 N., R. 14 E., M.D.B.&M.
39.2 acres in NE¼ NE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
39.8 acres in SW¼ NE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
40.0 acres in SE¼ NE¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
40.0 acres in NE¼ NW¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
40.0 acres in NW¼ NW¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
39.2 acres in SE¼ NW¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
8.0 acres in NE¼ SW¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
20.7 acres in NW¼ SW¼ of Section 1, T. 22 N., R. 14 E., M.D.B.&M.
38.0 acres in NE¼ NE¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
5.7 acres in NW¼ NE¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
21.5 acres in SE¼ NE¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
0.5 acre in NE¼ SE¼ of Section 2, T. 22 N., R. 14 E., M.D.B.&M.
820.8 acres - total.

Grace L. Wilson (Map Sheet 6)

4.4 acres in NE¼ NE¼ of Section 13, T. 20 N., R. 14 E., M.D.B.&M.
4.4 acres - total.

H. A. Turner Estate, et al. (Map Sheet 6)

39.4 acres in NW¼ NW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
40.0 acres in SW¼ NW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
34.9 acres in NW¼ SW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
37.3 acres in SW¼ SW¼ of Section 34, T. 21 N., R. 14 E., M.D.B.&M.
151.6 acres - total. (Garfield)

TABLE 2

SUMMARY OF DIVERSION SYSTEMS DIVERTING
FROM MIDDLE FORK OF FEATHER RIVER 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
		LAST CHANCE CREEK		
Bonta, J.A. and S. A.	47	Bonta North	66.0	
	48	Bonta South	100.0	
	49	Bonta Levee	297.4	463.4
Dotta, Edna F.	67	Dicen	12.4	12.4
Dotta, Frank V.	19	Ramelli and Dotta Frenchman Creek		
	and/or 251	Dotta Springs	71.5	71.5
	250	Galeppi and Dotta Springs	10.0	10.0
	28	Trosi Lower)		
	29	F. V. Dotta Upper)		
	30	F. V. Dotta Middle)		
	31	F. V. Dotta Lower)	340.0	
	56	M.B. Humphrey West Side	30.0	370.0
Ede, Philip E.	31	F. V. Dotta Lower	189.0	
	33	Ede Schoolhouse	173.2	
	34	Ede Lower	70.0	432.2
Galeppi, Rose, et al.	10	Galeppi Upper Last Chance)		
	11A	Galeppi Grigsby Creek)		
	12	Galeppi Lower Last Chance)		
	248	Galeppi North Spring)		
	249	Galeppi South Spring)		
	250	Galeppi and Dotta Springs)	336.5	336.5
	16	Galeppi Spring Creek	45.4	
	17	Galeppi Creek	115.7	161.1
Giudici, Alex E.	23	A.E. Giudici Dams	180.0	180.0
Giudici, B.E. & R.E.	73	East Branch of East Channel	204.3	204.3

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		LAST CHANCE CREEK (Continued)		
Giudici, Fred P., et al.	14	Giudici Upper Spring Creek	103.3	103.3
	15	Giudici Lower Spring Creek		
	21	F.P. Giudici Upper	44.9	
	22	F. P. Giudici Lower	240.5	285.4
Giudici, M.	22	F.P. Giudici Lower	62.3	62.3
Goble, Edmond J.	31	F. V. Dotta Lower		
	35	Goble Upper North Channel	816.7	
	57	M. B. Humphrey West Side	21.0	
	58	Ramelli Vinton		
	36	Goble Middle North Channel	85.0	922.7
	37	Goble Lower North Channel		
Golden, Elsie	8	Trosi Last Chance Ditch	16.0	
	8A	Trosi Dooley Canyon Creek Ditch	7.0	
	9	Trosi Dixie Creek Ditch	11.5	
	11	Trosi Grigsby Creek	49.6	
	11A	Galeppi Grigsby Creek	8.0	92.1
	13	Trosi Camp	79.0	
	18	Trosi Spring Creek	32.1	111.1
	20	Trosi Frenchman Creek	41.0	41.0
	23	A.E. Giudici Dams		
	26	Trosi Upper		
	27	Trosi Middle		
	28	Trosi Lower	146.8	146.8
Hall, Marietta	6	Ramelli Last Chance	15.4	15.4
	7	Ramelli North Spring Channel		
Humphrey, J. L.	70	Roberti Lower Channel	16.4	16.4
Humphrey, M. B.	56	M.B. Humphrey East Side		
	57	M.B. Humphrey West Side	468.4	468.4
	67	Dicen Division	564.2	
	70	Roberti Lower Channel	54.1	
	72	Huntley Lower East Channel	50.0	668.3
Huntley, Jennie F.	40	Huntley Upper North Channel		

Sheet 2.

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		LAST CHANCE CREEK (Continued)		
Huntley, Jennie F. (Cont'd.)	41	Huntley Middle North Channel	393.1	
	42	Huntley Lower North Channel		
	39	Laffranchini North Channel	127.8	
	67	Dicen Division		
	68	Roberti Upper	60.3	
	71	Huntley Upper East Channel	227.0	
	72	Huntley Lower East Channel		
	65	Laffranchini Middle East Channel	15.0	823.2
Laffranchini, C.D.	39	Laffranchini North Channel	545.7	
	64	Laffranchini Upper East Channel	286.9	
	65	Laffranchini Middle East Channel		
	66	Laffranchini East Channel Division	53.0	885.6
Laffranchini, C. D. & L. A.	43	Wherity North	259.7	259.7
	46	Wherity Lower		
	50	Dedman North	205.0	
	51	Dedman South	26.0	231.0
Maddalena, L. D.	52	Maddalena South	105.0	
	53	Maddalena North	34.9	139.9
Ramelli, Adelina	19	Ramelli and Dotta Frenchman Creek	76.2	76.2
	31	F. Dotta Lower		
	32	Ramelli North Channel	81.2	
	57	M.B. Humphrey West Side	90.8	
	58	Ramelli Vinton		
	59	Ramelli Railroad	27.0	199.0
	60	Ramelli Lower	15.0	15.0
Ramelli, Alessio	5	Ramelli	7.9	
	6	Hall and Ramelli	13.4	
	7	Ramelli North Spring Channel	130.1	151.4
	57	M.B. Humphrey West Side	166.4	
	58	Ramelli Vinton		

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		LAST CHANCE CREEK (Continued)		
Ramelli, Alessio (Cont'd.)	59	Ramelli Railroad)	174.0	340.4
	60	Ramelli Lower)		
Ramelli, Amelia D.	70	Roberti Lower Channel	135.8	135.8
Roberti, Josephine	43	Wherity North)		
	44	Wherity South)		
	45	Wherity Dam)	200.9	200.9
	67	Dicen Division	57.7	
	68	Roberti Upper)		
	69	Roberti Lower)	254.0	311.7
	70	Roberti Lower Channel	11.0	11.0
Rowland, C. C.	1	Rowland Upper North) and South)	104.2	
	2	Rowland Lower South)		
	3	Rowland Lower North	76.2	
	4	Rowland South Creek	57.7	238.1
Scolari, Louisa et. al.	70	Roberti Lower Channel	51.5	51.5
Sobrio, Guy	24	Sobrio Upper		
	25	Sobrio Lower	187.1	187.1
Solari, Annetta	37	Goble Lower North) Channel)		
	38	Solari North Channel)	246.9	
	61	Solari Upper East) Channel)		
	62	Solari Middle East) Channel)		
	63	Solari Lower East) Channel)	188.1	435.0
Westover Co.	54	Noble South	45.0	45.0
	55	Noble North (See Diversion 243)		
TOTAL - LAST CHANCE CREEK AND TRIBUTARIES				9911.1
		STAVERVILLE CREEK		
Caccini, John	75	Caccini	67.9	67.9

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		STAVERVILLE CREEK (Continued)		
Dotta, Leon	76	Lower Staverville Channel	22.0	22.0
Dotta, Raffaele	76	Lower Staverville Channel	27.5	27.5
Rees, J. S.	74	Parker	Stockwater	
TOTAL - STAVERVILLE CREEK				117.4
		SMITHNECK CREEK		
Clover Valley Lumber Company	87	Lewis Bros. East	115.1	
	88	Cobb	65.6	180.7
	89	Mill pond	Industrial	
Dory, Maxim	90	Division	19.0	
	91	Dory East Channel	41.4	
	110	Dory West Channel	46.9	107.3
Dory, May and Keyes, Cora V.	93	Keyes East)		
	94	R. Dotta West)	66.0	
	100	Giudici Middle)		
	101	Keyes Middle)	94.0	160.0
Dotta, Albert C. and Ceasar	94	R. Dotta West	20.0	
	95	R. Dotta Main	140.0	
	96	A. & C. Dotta East)		
	97	A. & C. Dotta East) Dam)	299.8	
	102	Upper Dotta Genasci)		
	103	Lower Dotta Genasci)		
	104	A. & C. Dotta Middle)		
	105	A. & C. Dotta Home Ranch)	345.5	
	107	Last Chance	85.9	
	115	Dotta West Channel	254.5	1145.7
Dotta, Antone E.	108	A. Dotta Last Chance	59.6	
	115	Dotta West Channel	48.7	
	116	A. Dotta West	30.0	138.3

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		SMITHNECK CREEK (Continued)		
Dotta, Edna F.	108	A. Dotta Last Chance	32.7	32.7
	119	Ede Lake Cut	180.7	180.7
Dotta, Leon	92	Giudici East Channel	87.8	87.8
Dotta, Raffaele	92	Giudici East Channel	120.0	
	94	R. Dotta West	20.0	
	95	R. Dotta Main	98.0	238.0
Ede, Albert E.	118	Ede Lake	14.7	
	119	Ede Lake Cut	115.9	130.6
Ede, Charles	108	A. Dotta Last Chance	38.0	
	118	Ede Lake	121.4	
	119	Ede Lake Cut	36.5	195.9
The Federal Land Bank of Berkeley	108	A. Dotta Last Chance	42.0	
	109	A. Dotta Lower	32.0	
	114	Ramelli Division	101.0	
	117	A. Dotta Lower West Channel	97.2	272.2
First National Bank of Nevada	82	Middle East	34.1	
	87	Lewis Bros. East	111.2	
	253	Loyalton pipe	6.5	151.8
Genasci, Attilio R. and Louis	111	Genasci Upper Field)		
	112	Genasci Lower Field)	298.6	298.6
Genasci, Perpetua	102	Upper Dotta Genasci	213.9	
	103	Lower Dotta Genasci	175.3	
	112	Genasci Lower Field	21.4	410.6
	111	Genasci Upper Field	5.1	5.1
	110	Dory West	60.0	60.0
Giudici, Alice, Francis and Stephen	92	Giudici East Channel	83.3	
	100	Giudici Middle Channel	62.0	145.3
Giudici, B. E. and R. E.	98	Giudici East Dam	100.3	
	99	Last Chance and Smithneck Junction	40.0	
	106	Lower Middle Channel	86.4	226.7
Humphrey, M. B.	114	Ramelli Division	94.2	
	118	Ede Lake	355.0	449.2

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		SMITHNECK CREEK (Continued)		
Laffranchini, Mary C.	79	Lombardi West	32.4	
	80	Lombardi East	9.0	
	81	Upper Concrete Dam	5.0	
	84	Turner South)		
	85	Turner North)		
	252	Lombardi Canyon)	154.7	201.1
Lombardi, Louis S.	110	Dory West	35.4	
	254	Lombardi Spring	51.8	87.2
Plumas Logging and Transportation Co.	81	Upper Concrete Dam	97.1	
	82	Middle East	55.7	
	83	Turner Channel	5.9	
	86	Lewis Bros. West	6.0	164.7
Ramelli, Amelia D.	110	Dory West	84.5	
	113	Ramelli Flood	75.0	
	114	Ramelli Division	419.8	579.3
Rees, J. S.	86	Lewis Bros. West	27.0	
	87	Lewis Bros. East	182.2	
	88	Cobb	3.4	212.6
	253	Loyalton Pipe	Municipal	
Sierra Valley Bank	110	Dory West	58.2	58.2
Terwilliger, C. D.	77	Mountain Ranch West Side	51.3	
	78	Mountain Ranch East Side	19.0	70.3
Trosi, E. J.	77A	Trosi meadow	73.0	73.0
TOTAL - SMITHNECK CREEK AND TRIBUTARIES				6063.6
		ANTELOPE CREEK		
Filippini, Julius	122	Antelope East Channel	100.0	100.0
Genasci, Perpetua	122	Antelope East Channel	80.0	80.0
Lombardi, Caesar P.	120	Antelope Upper	13.0	
	121	Antelope West Channel	124.1	
	122	Antelope East Channel	94.6	231.7
TOTAL - ANTELOPE CREEK				411.7

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		LEMON CREEK		
Alpers, Fred A.	126	Lemon Lower	215.8	215.8
Matterola, Marie	257	Campbell Springs	166.7	166.7
Miller, Anna B.	123	Blinman Spring Channel		
	124	Lemon East		
	125	Lemon West		
	126	Lemon Lower	299.2	299.2
TOTAL - LEMON CREEK AND TRIBUTARIES				681.7
		WEBBER CREEK, COLD CREEK, TOWN CREEK AND PERRY CREEK		
Adams, A. D.	133	Johnson, Morgan & Adams	2.9	2.9
Adams, H. G.	148	Adams	157.8	157.8
Alpers, Fred A.	256	Alpers Springs	80.0	
	140	Alpers Lower Field	173.8	253.8
Amodei, John	155	Amodei	144.6	
	259	Amodei Upper Spring)	71.2	
	260	Amodei Meadow Springs)		
	261	H. Dotta Springs	3.3	219.1
Estate of Blaisdell Amanda T.	130	Randolph	1.3	1.3
Blatchley, Amy	130	Randolph	0.3	0.3
Blatchley, Cordelia	130	Randolph	0.7	0.7
Bony, Francesca G., et al	136	Bony Upper	164.2	
	137	Bony Division	123.0	
	138	Bony Middle Concrete)		
	139	Bony Lower Dams)	101.5	
	147	Miller Schoolhouse	91.6	480.3
Colt, Elmer	130	Randolph	0.4	0.4
Copren, Jennie	130	Randolph	0.1	0.1

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
WEBBER CREEK, COLD CREEK, TOWN CREEK AND PERRY CREEK (Continued)				
Deerwater, J.	130	Randolph	0.6	0.6
Dellera, Kelso N.	129	Miller-Dellera	181.6	181.6
Diltz, W. A.	130	Randolph)		
	145	Webber, Diltz & Johnson)	8.0	8.0
Dolly, Fred	133	Morgan, Johnson & Adams	9.0	9.0
Griffin, R.	130	Randolph	1.1	1.1
Humphrey, F. E. Jr.	148	Adams	150.0	
	149	Perry Creek Division	100.0	
	150	Webber Upper)		
	151	Webber Lower)	142.4	392.4
Johnson, C. D.	133	Morgan, Johnson & Adams	12.2	
	134	Town Pumps	1.2	13.4
Johnson, Dell L.	128	Johnson Cold Creek	38.0	
	128A	Cook	12.5	
	131	Johnson Webber Creek)	125.4	
	132	Johnson Town Creek)		
	133	Morgan, Johnson & Adams	60.7	
	145	Webber, Diltz & Johnson	18.3	
	258	Johnson Springs	3.0	257.9
Joy, A. C.	130	Randolph	0.4	0.4
Knuthson, H.	130	Randolph	0.4	0.4
Kofford, P.	130	Randolph	0.5	0.5
Liechty, George N.	130	Randolph	0.6	0.6
Linebaugh, S. C.	127	Camp Spring	6.0	6.0
	133	Morgan, Johnson & Adams	1.3	1.3
McKenzie, Elizabeth	130	Randolph	3.0	3.0
McIntosh, John A.	134	Town Pumps	1.0	1.0
Miller, Anna B.	129	Miller-Dellera	129.4	129.4
	146	Miller Upper	236.9	
	133	Morgan, Johnson & Adams)	167.4	404.3
	147	Miller Schoolhouse)		
	137	Bony Division)	236.0	
	141	Miller Town Creek)		
	149	Perry Creek Division)	326.0	562.0
	152	Miller Lower Perry Creek)		

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
WEBBER CREEK, COLD CREEK, TOWN CREEK AND PERRY CREEK (Continued)				
Miller Anna B. (Cont'd.)	148	Adams	78.0	78.0
	155	Amodei	200.5	200.5
Miller, Thomas E.	133	Morgan, Johnson and Adams	0.9	0.9
Morgan, James W.	132	Johnson, Town Creek	5.4	
	133	Morgan, Johnson and Adams	11.5	16.9
	156	Morgan East Channel	65.0	
	157	Morgan West Channel	2.7	67.7
Pearce, J. H.	130	Randolph	0.3	0.3
Small, F. E.	130	Randolph	1.8	1.8
Strang, A. E.	260	Amodei Meadow Springs	62.0	62.0
Torri, Giulio et al	142	Torri Upper	80.0	
	143	Torri Lower	235.9	
	255	Henderson Spring	6.0	321.9
Webber, Mary Ella	130	Randolph	0.2	
	145	Webber, Diltz and Johnson	7.0	7.2
Webber, Sarie	130	Randolph	1.1	1.1
Wilson, Grace L.	135	Wilson Dam	4.4	4.4
TOTAL - WEBBER CREEK, COLD CREEK, TOWN CREEK AND PERRY CREEK				3852.3
		HAMLIN CREEK		
Dotta, Henry	158	H. Dotta Upper South)	42.3	
	261	H. Dotta Springs)		
	159	H. Dotta Lower South	164.6	
	160	H. Dotta Old Power Wheel	17.0	
	161	H. Dotta North Channel	86.2	
	162	H. Dotta South Channel	121.7	431.8
Martinetti, Delia	165	Martinetti & Miller	25.0	25.0

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		HAMLIN CREEK (Con't)		
Miller, Anna B.	164	Strang Lower)	60.0	60.0
	165	Martinetti & Miller)		
Strang, A. E.	159	H. Dotta Lower South	67.3	
	160	H. Dotta Old Power)		
	161	H. Dotta North Channel)	61.6	
	163	Strang Upper)		
	164	Strang Lower)	426.7	555.6
TOTAL - HAMLIN CREEK AND TRIBUTARIES				1066.4
		MILLER CREEK		
Adams, H. G.	176	Adams Mounds	120.0	120.0
Binninger, J. M. et al	175	Miller Creek, Mounds Channel	117.0	117.0
Cavitt, J. H.	172	Cavitt Miller Creek	199.2	199.2
Church, Albert B.	174	Martinetti Lower) West Channel)		
	175	Miller Creek Mounds) Channel	105.0	105.0
Devine, Mrs. C. L.	174	Martinetti Lower West Channel	74.9	74.9
Martinetti, Delia	167	Miller and Strang	52.9	
	168	Martinetti Upper East Channel	76.8	
	169	Martinetti Middle East Channel	78.3	
	170	Martinetti Lower Field	94.6	
	171	Martinetti Upper West Channel	70.5	
	173	Martinetti Middle West Channel	45.0	
	174	Martinetti Lower West Channel	15.0	433.1
Meyers, B. F. and C. B.	174	Martinetti Lower West Channel	20.0	20.0

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		MILLER CREEK (Continued)		
Miller, Anna B.	166	Miller-Hamlin Creek	100.0	100.0
Strang, A. E.	167	Miller-Strang	95.5	95.5
	170	Strang and Martinetti Lower Field	15.0	15.0
Turner, H. A.	175	Miller Creek Mounds Channel	42.2	
	175	Miller Creek Mounds Channel	80.0	122.2
TOTAL - MILLER CREEK				1401.9
		TURNER CREEK		
Cavitt, J. H.	178	Cavitt Spring Brook	64.0	
	184	Church	0.4	
	185	Cavitt Turner Creek	37.3	
	262	Cavitt Foothill Springs	30.0	131.7
Church, Albert B.	184	Church	65.7	
	186	Church Upper Turner Cr. Meadow	141.5	207.2
	187	Church Lower Turner Cr. Meadow	134.1	134.1
Copren, Suzette	179	Copren Spring Channel	12.0	12.0
Devine, Samuel	189	Clark Turner Creek Meadow	200.8	200.8
Freeman, Frank W.	180	Freeman	117.5	
	188	Freeman Lower Meadow	88.9	206.4
Knuthson, G. J.	179	Copren Spring Channel	1.2	1.2
Martinetti, Delia	177	Martinetti Spring Brook	29.4	29.4
Pasquetti, Isolina	191	Pasquetti Turner Creek	184.7	184.7
Turner, H. A., Est. (Garfield)	187	Church Lower Turner Creek Meadow	109.4	109.4

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		TURNER CREEK (Continued)		
Toomey, C. W. et al	189	Clark Turner Creek Meadow	42.1	
	190	Toomey Meadow	157.9	200.0
Turner, H. A., Est.	181	Turner West)	78.6	
	182	Turner East)		
	183	Turner Canyon	25.0	
	184	Church	21.9	125.5
Turner, T. K.	180	Freeman	0.2	0.2
TOTAL - TURNER CREEK AND TRIBUTARIES				1542.6
		FLETCHER AND CRAYCROFT CREEKS		
Albini, Henry	201	Lower Craycroft	23.6	23.6
Devine, Samuel	199	Devine Meadow)		
	200	Clark Fletcher Creek Meadow)	200.1	200.1
Devine, Samuel and Catherine L.	195	Devine Spring Channel	125.2	
	199	Devine Meadow	69.9	195.1
Freeman, Estate of Wm.	194	Freeman Spring Channel	23.5	
	198	Freeman Fletcher Creek Meadow	30.3	53.8
	200	Clark Fletcher Creek Meadow	8.8	8.8
Humphrey, F. E., Jr.	201A	Upper Craycroft	160.0	160.0
Humphrey, F. E., Jr.	201	Lower Craycroft	45.9	45.9
Humphrey, J. L.	201	Lower Craycroft	21.7	21.7
Davies-Johnson Lumber Company	192	Davies-Johnson House	12.0	
	193	Davies-Johnson Spring Channel	79.3	
	197	Davies-Johnson Meadow	43.5	134.8
	196	Calpine Pipe	Industrial & Municipal	
TOTAL - FLETCHER CREEK AND TRIBUTARIES				896.8

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		WEST SIDE CANAL		
Albini, Henry	220	Albini and Humphrey	61.8	61.8
Berry, Fred	213	Berry West Side)		
	215	Berry Meadow)	232.0	232.0
Ghidossi, E. F.	212	Humphrey Newman	40.3	
	213	Berry West Side	25.0	
	216	Ghidossi Upper Field)		
	218	Ghidossi Lower West)		
		Side)	384.2	449.5
Henderson, George A.	203	Henderson West Side	120.0	120.0
Humphrey, F.E., Jr.	205)	Pasquetti Lower West Side		
	206)	Humphrey		
	207)	Humphrey		
	208)	Humphrey		
	209)	Humphrey		
	210)	Humphrey		
	214)	Humphrey Division	720.4	720.4
	212	Humphrey Pasture)		
	214	Humphrey Division)	160.0	160.0
	219	Humphrey Mercer	156.7	
	220	Albini and Humphrey	113.9	270.6
Humphrey, J. L.	220	Albini and Humphrey	144.7	144.7
Matley, John B.	211)	Matley		
	214)	Humphrey Division	134.3	134.3
Meyers, B. F. and C. B.	202	Turner Mounds	147.2	147.2
Pasquetti, Battista	204	Pasquetti Upper West Side	189.0	189.0
Pasquetti, Isolina	202	Turner Mounds)		
	204	Pasquetti Upper West)		
		Side)	302.2	
	205	Pasquetti Lower West)		
		Side)		302.2
Turner, H. A., Est.	202	Turner Mounds	109.9	109.9
Viscia, A. A.	216	Ghidossi Upper Field	86.0	
	217	Casey West Side	72.9	158.9
TOTAL - WEST SIDE CANAL				3200.5

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		MIDDLE FORK FEATHER RIVER		
Albini, Henry	239	Humphrey Dam West	80.0	80.0
Carmichael, Roy C. and P. L.	247	Carmichael Dam	85.9	85.9
Dotta, C. C.	224	Humphrey Upper River	143.2	
	225	Humphrey North River	33.2	
	226	East Side	20.2	
	230	Dotta Meadow)		
	231	Dotta Pump)	110.9	307.5
Ede, Albert E.	237	Ede River	65.0	65.0
Falchi, G.	246	Decker Dam	144.4	144.4
Filippini, Julius	224	Humphrey Upper River	70.0	
	226	East Side	158.4	
	232	Filippini Upper) Meadow)		
	233	Filippini Lower) Meadow)	294.8	523.2
Genasci, Perpetua and Dotta, Raffaele	226	East Side	7.3	
	229	Robbins Dams	135.8	143.1
Ghidossi, E. F.	234	Middle	14.0	14.0
Henderson, George A.	144	Henderson Town Creek	44.5	
	153	West Side	62.3	
	154	Henderson Perry Creek	50.0	
	255	Henderson Springs	57.8	214.6
Henderson, R. L.	222	East Side Slough	134.7	134.7
Humphrey, F. E. Jr.	224	Humphrey Upper River	1020.7	
	225	Humphrey North River	210.5	
(610.2 acres of this may also be irrigated from the West side Canal)	226	East Side	155.2	
	227	Humphrey Lower Concreto Dam	210.2	
	228	Humphrey Lower River Dam	81.7	
	229	Robbins Dams	64.8	1743.1
	234	Middle	78.5	78.5

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R.Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
	MIDDLE FORK FEATHER RIVER (Continued)			
Humphrey, J. L.	234	Middle	50.0	
	238	Humphrey Dam East	340.7	
	239	Humphrey Dam West	750.3	
	240	Humphrey Lower Field	60.0	1201.0
Humphrey, M. B.	226	East Side	222.9	
	235	Mickey Meadow	472.5	
	236	Mickey East Side Dam	226.2	921.6
	241	M. B. Humphrey) Tognazini Ranch)		
	242	L. D. Maddalena River)	302.6	302.6
Maddalena, L. D.	242	L. D. Maddalena River	32.5	32.5
Pasquetti, Battista	221	Pasquetti Dam	232.2	232.2
Ramelli Amelia	226	East Side	102.3	102.3
Scolari, Louisa	238	Humphrey Dam East	124.4	124.4
Vanetti, Alice	222	East Side Slough	50.0	
	223	Vanetti Slough	177.4	227.4
Viscia, A. A.	234	Middle	40.0	40.0
Westpover Co.	243	Noble East	176.3	
	244	Noble West)		
	245	Noble Dam)	599.5	775.8
	263	Noble Reservoir)		
TOTAL - MIDDLE FORK OF FEATHER RIVER				7493.8

TABLE 2 (Continued)

Name of Owner	Diversion Number as per D.W.R. Map	Name of Diversion	Acreage Irrigated under Diversion	Total Acreage Irrigated on Ranch
		MISCELLANEOUS STREAMS AND CREEKS		
Bonta, Sam	270	Bonta Creek	742.0	
	271	Bonta East Creek	90.0	832.0
Carmichael, Frank	267	Mapes West Meadow)		
	268	Mapes East Meadow)	1211.5	1211.5
Falchi, G. & M.	266	Falchi	101.5	101.5
Guscetti, R. E.	276	R. E. Guscetti	24.5	24.5
Guscetti, W. H.	277	W. H. Guscetti	20.6	20.6
Golden, Elsie	274	West & North Canyon		
	275	East Canyon	533.2	533.2
Laffranchini, L. A.	273	Laffranchini Creek	768.5	768.5
Maddalena, A. D.	269	A.D. Maddalena Pasture	122.5	122.5
Maddalena, L. D.	272	L.D. Maddalena Pasture	109.0	109.0
Nelson, V.	265	Nelson	78.0	78.0
Noble, E. B.	266	Falchi Canyon	28.0	28.0
TOTAL - MISCELLANEOUS				3829.3
GRAND TOTAL - MIDDLE FORK OF FEATHER AND TRIBUTARIES ABOVE BECKWITH				40475.1

TABLE 3

PRECIPITATION - SIERRAVILLE, CALIFORNIA
Elevation 5000 feet

Inches of Water

Season	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Seasonal
1909-10	2.14	1.65	7.75	5.27	3.30	3.15	0.09	0.00	0.00	0.09	0.00	0.90	24.34
1910-11	.02	1.87	2.80	17.46	2.40	6.20	1.87	.53	.00	.30	.00	.00	33.45
1911-12	.00	1.87	2.40	2.20	.00	2.73	2.31	1.54	.83	.00	.21	1.23	15.32
1912-13	1.14	3.71	1.90	4.20	1.20	1.00	3.00	1.02	.51	3.91	1.60	.00	23.19
1913-14	.00	3.30	12.17	14.17	5.85	.00	1.61	.25	.94	.00	.00	.00	38.29
1914-15	.68	.05	2.95	2.62	9.64	.80	.61	3.44	.10	.10	.27	.00	21.26
1915-16	.00	2.35	4.17	14.27	3.01	4.97	.62	.10	.00	.00	.25	.80	30.54
1916-17	.70	.36	5.32	.40	6.30	3.31	1.54	.98	.00	2.60	.00	.00	21.51
1917-18	.00	2.16	.53	T	5.80	5.61	1.03	.00	.00	.00	.00	3.54	18.67
1918-19	2.55	1.91	.75	.90	9.30	2.00	.60	.00	.00	.50	.00	.55	19.06
1919-20	.00	.55	1.60	.62	1.10	5.01	2.45	.00	.45	.00	.45	.25	12.48
1920-21	1.72	4.55	2.98	5.16	.80	.48	.00	1.87	.55	.00	.00	.00	18.11
1921-22	.71	.87	4.24	2.00	7.30	3.27	1.02	.88	.60	.75	.00	.00	21.64
1922-23	1.02	4.29	9.25	4.53	2.40	.95	2.18	1.25	1.59	.00	.50	.88	28.84
1923-24	1.19	.00	2.20	.90	.45	1.46	.65	.00	.00	.00	.00	.61	7.46
1924-25	3.75	1.61	2.73	1.36	7.51	1.07	1.05	.61	1.61	.30	1.35	.95	23.90
1925-26	1.75	2.26	.87	3.75	5.19	.38	2.03	.10	.00	.00	.00	.00	16.33
1926-27	1.45	8.38	.77	3.68	11.50	2.84	4.04	.87	.57	.00	.00	.73	34.83
1927-28	1.81	4.78	1.21	1.81	.99	8.60	3.08	1.65	.00	.00	.00	.00	23.93
1928-29	T	1.63	3.25	1.70	2.26	3.00	1.53	T	2.07	.00	.09	.00	15.53
1929-30	.14	.00	8.20	4.60	3.05	2.10	3.01	1.44	.00	.17	.07	.85	23.63
1930-31	.00	4.58	T	2.00	1.68	2.54	2.02	2.56	.90	.18	.00	.55	17.01
1931-32	1.96	2.27	7.67	4.41	2.40	1.21	1.32	.38	.70	.17	.00	.00	22.49
1932-33	.03	.75	1.91	4.06	.68	1.73	.54	1.23	.08	.63	.00	.00	11.64
1933-34	4.60	T	4.77	2.20	1.87	.54	.67	1.03	1.41	.00	.26	1.14	18.49
1934-35	2.68	3.39	1.63	6.73	1.37	3.00	5.50	.52	.00	.11	.21	.00	25.14
1935-36	1.16	2.12	2.25	8.38	8.62	1.18	.58	.21	1.21	.00	.00	.19	25.90
Mean 1909 to 1936	1.16	2.27	3.57	4.42	3.92	2.56	1.66	.83	.52	.36	.19	.49	21.96

TABLE 4

PRECIPITATION - PORTOLA, CALIFORNIA
Elevation 4832 feet

Inches of Water

Season	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Seasonal
1915-16	0.00	2.64	2.20	11.30	0.42	2.43	0.11	0.67	0.00	0.00	0.09	0.13	19.99
1916-17	.04	.13	3.58	1.00	3.29	2.86	.10	.16	.00	.00	.05	.00	11.21
1917-18	.00	.09	.05	.20	5.33	3.46	.05	.04	.00	.00	.01	2.08	11.31
1918-19	1.18	1.26	.70	.66	5.68	2.10	.05	.00	.00	.00	.00	.00	11.63
1919-20	.03	1.20	3.10	.42	.91	3.81	1.32	.00	.00	.00	.07	.07	10.93
1920-21	1.27	5.00	3.38	4.09	.90	.49	.20	.80	.06	.00	.00	.00	16.19
1921-22	.40	.50	4.90	1.90	8.50	4.30	.00	.55	.06	.00	.00	.00	21.11
1922-23	.07	1.71	5.53	4.59	1.20	.20	2.80	.30	1.70	.00	.00	1.02	19.12
1923-24	.50	.01	.96	1.08	.15	2.28	.17	.00	.00	.00	.00	.01	5.16
1924-25	1.49	.52	1.78	1.49	4.23	2.10	1.02	1.09	.09	.01	.09	.13	14.04
1925-26	1.05	.70	1.11	3.40	2.40	.08	4.80	1.60	.00	.00	.20	.10	15.44
1926-27	2.10	6.71	.30	3.00	5.13	2.30	1.80	.30	.50	.00	.00	.40	22.54
1927-28	1.40	3.30	.70	1.80	.30	4.30	.75	.04	.01	.00	.00	.00	12.60
1928-29	.00	1.30	.95	1.20	2.00	1.07	1.30	.40	1.60	.00	.01	.00	9.83
1929-30	.01	T	7.53	3.04	2.20	.21	.90	.60	.00	.00	.01	1.14	15.64
1930-31	.00	.50	.01	.70	.70	1.14	1.60	2.10	.81	T	.00	.20	7.76
1931-32	1.80	.62	2.90	4.40	1.10	1.20	2.00	2.40	.70	.20	.40	.20	17.92
1932-33	.90	.20	1.60	3.89	.50	1.60	1.00	.49	.00	.10	.00	.01	10.29
1933-34	2.90	T	3.95	1.00	2.37	1.70	.90	.60	2.10	.00	.20	.61	16.33
1934-35	1.04	3.04	1.62	4.19	2.30	3.45	5.34	.65	.00	.00	.00	T	21.63
1935-36	1.50	.94	.90	1.99	6.86	1.70	.32	.64	.94	.00	T	.06	15.85
Mean 1915 to 1936	.84	1.45	2.27	2.64	2.69	2.04	1.26	.64	.41	.01	.05	.29	14.59

TABLE 5

TEMPERATURE RECORDS AT SIERRAVILLE

Month	Temperature in Degrees Farenheit Sierraville - Elevation 5000				
	Mean 27 Years	Mean Maximum 21 Years	Mean Minimum 21 Years	Maximum 27 Years	Minimum 27 Years
January	26.6	39.5	13.4	64	-24
February	30.1	43.3	17.0	67	-30
March	37.1	50.6	23.1	75	-13
April	43.3	58.4	27.7	82	0
May	50.2	67.1	33.0	93	15
June	56.5	75.6	37.2	101	20
July	62.5	84.8	39.7	104	23
August	61.2	84.5	37.5	102	25
September	54.9	76.2	33.0	95	14
October	47.3	67.7	26.6	88	8
November	38.4	55.0	21.8	79	-13
December	28.7	42.6	15.6	69	-22
Annual	48.7	62.1	27.1	104	-30

TABLE 6

CHARACTER OF PRECIPITATION
AT SIERRAVILLE

Month	Mean Snowfall 27 Years Inches of Snow	Snow Inches 1935-36	1935-36 Snow in per cent of mean Snowfall	Snow in inches of water 1935-36	Total Precipitation Inches 1935-36	Snow expressed in per cent of total Precipitation 1935-36
December	14.2	7.5	53	0.75	2.25	33
January	29.8	8.0	27	.80	8.38	10
February	19.3	32.0	166	3.20	8.62	37
March	17.1	8.0	47	.80	1.18	68
April	5.8	5.0	86	.50	.58	86
Total	86.2	60.5	70	6.05	21.01	29

TABLE 7

ESTIMATED DAILY DISCHARGE OF LAST CHANCE CREEK BELOW ROAD CROSSING ABOVE THE GIUDICI RANCH
FROM OCTOBER 1, 1916 TO SEPTEMBER 30, 1917

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	
1				45.8	135.1	268.3	75.8	130.2					
2				49.6	140.1	302.7	61.8	140.2					
3				53.7	125.3	297.7	70.7	140.2					
4				34.0	135.1	189.4	85.7	140.2					
5				45.5	110.4	140.1	140.1	189.4					
6				30.3	120.3	90.7	263.4	150.0					
7				61.8	70.7	46.5	287.9	189.4					
8				66.2	53.7	21.0	307.6	150.0					
9				57.8	37.8	15.8	248.5	169.8					
10				66.2	45.5	23.8	189.4	199.2					
11				49.6	70.7	45.5	287.9	189.4					
12				30.3	110.4	15.8	297.7	169.8					
13	10.0	20.0	35.0	41.7	140.1	13.4	317.5	140.1	35.0	5.0	3.0	3.0	
14				57.8	130.2	15.8	199.2	169.8					
15				75.8	140.1	37.8	140.1	179.6					
16				61.8	164.9	49.6	120.3	150.0					
17				45.5	140.1	23.8	90.7	120.3					
18	AVERAGE	AVERAGE	AVERAGE	66.2	120.3	13.4	100.5	105.4	AVERAGE	AVERAGE	AVERAGE	AVERAGE	
19				85.8	140.1	11.4	90.7	90.7					
20				140.1	30.3	13.4	120.3	80.8					
21				130.2	37.8	15.8	179.6	66.3					
22				120.3	120.3	13.4	238.7	61.8					
23				125.3	135.1	21.0	287.9	45.5					
24				100.5	287.9	9.3	278.1	80.8					
25				120.3	312.6	11.4	297.7	53.7					
26				130.2	337.1	11.4	283.0	45.5					
27				120.3	347.0	18.2	263.4	61.8					
28				130.2	287.9	53.7	199.2	53.7					
29			61.8	140.1		140.1	154.9	45.5					
30			34.0	130.2		130.2	140.1	49.6					
31			61.8	110.4		61.8		45.5					
TOTAL SEC.FT. DAYS	310.0	600.0	1137.6	2523.2	4026.9	2122.2	5818.4	3604.2	1050.0	155.0	93.0	90.0	365 DAY PERIOD
MEAN SEC.FT.	10.0	20.0	36.70	81.39	143.82	68.46	193.95	116.26	35.00	5.00	3.00	3.00	59.0
MAXYMUM SEC.FT.	—	—	61.8	140.1	347.0	302.7	317.5	199.2	—	—	—	—	—
MINIMUM SEC.FT.	—	—	—	30.3	30.3	9.30	61.8	45.5	—	—	—	—	—
TOTAL AC. FT.	610	1190	2260	5000	7990	4210	11500	7150	2080	310	184	178	42700

TABLE 8

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF LAST CHANCE CREEK BELOW ROAD CROSSING ABOVE THE GIUDICI RANCH-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		63.1	9.60	1.25	0.60	0.90	
2		64.2	10.0	1.25	.60	1.00	
3		64.2	34.3	1.20	.55	1.30	
4		64.2	20.8	1.15	.55	1.60	
5		61.2	14.0	1.10	.50	1.80	
6	NO RECORD	53.4	17.0	1.00	.45	1.30	
7		49.6	26.0	1.00	.40	1.15	
8		42.6	15.8	1.10	.35	1.00	
9		35.2	11.4	1.20	.40	.90	
10		36.1	9.60	1.30	1.25	.90	
11		40.0	8.00	1.20	.80	.90	
12		38.0	6.90	1.20	.60	1.15	
13		37.0	6.50	1.15	.50	1.30	
14		37.0	6.20	1.10	.45	1.35	
15		36.0	5.90	1.00	.40	1.35	
16		33.6	4.50	.90	.40	1.35	
17		30.0	4.30	.85	.50	1.30	
18		25.3	3.40	.80	.55	1.30	
19		21.6	2.80	.75	.55	1.30	
20		20.8	2.70	.75	.60	1.30	
21		19.0	2.70	.75	.60	1.30	
22		13.0	2.70	.75	.60	1.30	
23	123.	13.5	2.60	.80	.60	1.30	
24	121.	12.0	2.10	.80	.60	1.30	
25	108.	10.5	1.80	.80	.65	1.30	
26	99.5	9.60	1.70	.75	.65	1.30	
27	95.6	10.0	1.60	.75	.65	1.30	
28	87.0	11.7	1.60	.70	.65	1.30	
29	80.0	10.9	1.40	.70	.70	1.30	
30	69.2	10.9	1.30	.65	.75	1.30	
31		10.0		.65	.80		
Total Sec.Ft. Days	783.3*	984.2	239.20	29.35	18.25	37.45	161 day Period
Mean Sec.Ft.	97.9*	31.7	7.97	.95	.59	1.28	12.99
Maximum Sec.Ft.	123. *	64.2	34.3	1.30	1.25	1.80	123.
Minimum Sec.Ft.	69.2*	9.60	1.30	.65	.35	.90	.35
Total Acre-Ft.	1550. *	1950.	474.	58.2	36.2	74.3	4140.

*8 day Period

TABLE 9

*ESTIMATED TOTAL DAILY DISCHARGE OF LAST CHANCE CREEK IN CUBIC FEET PER SECOND ABOVE THE GIUDICI DIVERSIONS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	64.0	12.1	1.25	0.60	0.90	
2	66.4	12.5	1.25	.60	1.00	
3	66.4	36.9	1.20	.55	1.30	
4	66.4	23.3	1.15	.55	1.60	
5	63.4	16.2	1.10	.50	1.80	
6	55.6	19.3	1.00	.45	1.30	
7	51.8	28.6	1.00	.40	1.15	
8	44.8	18.3	1.10	.35	1.00	
9	37.4	13.6	1.20	.40	.90	
10	38.4	12.2	1.30	1.25	.90	
11	42.3	11.6	1.20	.80	.90	
12	40.3	9.50	1.20	.60	1.15	
13	39.3	9.00	1.15	.50	1.30	
14	39.3	8.60	1.10	.45	1.35	
15	38.3	8.30	1.00	.40	1.35	
16	35.6	6.70	.90	.40	1.35	
17	32.6	6.40	.85	.50	1.30	
18	27.8	5.10	.80	.55	1.30	
19	24.0	4.20	.75	.55	1.30	
20	23.0	4.10	.75	.60	1.30	
21	21.2	3.90	.75	.60	1.30	
22	15.0	3.80	.75	.60	1.30	
23	16.5	3.60	.80	.60	1.30	
24	15.0	2.80	.80	.60	1.30	
25	13.5	2.30	.80	.65	1.30	
26	12.4	2.10	.75	.65	1.30	
27	12.8	1.90	.75	.65	1.30	
28	14.5	1.70	.70	.65	1.30	
29	13.5	1.50	.70	.70	1.30	
30	13.5	1.30	.65	.75	1.30	
31	12.5		.65	.80		
Total Sec.Ft. Days	1057.5	291.40	29.35	18.25	37.45	153 day Period
Mean Sec.Ft.	34.1	9.71	.95	.59	1.25	9.37
Maximum Sec.Ft.	66.4	36.9	1.30	1.25	1.80	66.4
Minimum Sec.Ft.	12.4	1.30	.65	.35	.90	.35
Total Ac. Ft.	2100	578	58.2	36.2	74.3	2850

*Combination of Tables 8 and 45.

TABLE 10

*ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF LAST CHANCE CREEK BELOW SOBRIO RANCH - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	No	5.50	0.85	0.10		
2		5.30	.85	.10		
3	Record	45.9	.80	.10		
4		35.3	.75	.10		
5	54.4	21.2	.70	.10		
6	44.6	24.0	.60	.10		
7	42.8	33.0	.60	.10		
8	40.6	22.5	.20	.10		
9	31.2	17.1	.20	.10		
10	30.1	4.20	.15	.40		
11	33.8	3.60	.15	.30		
12	31.7	4.00	.15	.20		
13	30.7	3.90	.15	.10		
14	30.7	4.10	.15	.10	RECORD	
15	29.7	3.70	.10	.10		
16	29.8	3.20	.10	.10		
17	23.9	2.60	.10	.10		
18	19.0	1.90	.10	.10		
19	15.3	1.20	.10	.10		
20	14.4	1.00	.10	.10		
21	12.7	.80	.10	.10		
22	6.60	.70	.10	.10	NO	
23	8.20	.55	.10	.10		
24	6.80	.45	.10	.10		
25	5.50	.45	.10	.10		
26	5.80	.45	.10	.10		
27	6.10	.40	.10	.10		
28	6.40	1.30	.10	.10		
29	6.80	1.05	.10	.10		
30	6.10	.95	.10	.10		
31	5.60		.10	.20		
Total Sec.Ft. Days	**579.30	250.30	8.00	3.80		119 Day Period
Mean Sec.Ft.	**21.5	8.34	.26	.12		7.08
Maximum Sec.Ft.	**54.4	45.9	.85	.40		54.4
Minimum Sec.Ft.	**5.50	.40	.10	.10		.10
Total Ac. Ft.	1150 **	496	15.9	7.54		1670

*Combination of Tables 50 and 51.
** 27 day Period.

TABLE 11

CONTINUOUS RECORDS OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF SMITHNECK CREEK AT BEAR VALLEY ROAD CROSSING - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	6.20	2.60	1.30	2.20	
2		6.20	2.40	1.30	2.70	
3		8.10	2.00	1.30	3.20	
4		7.90	.85	1.65	3.30	
5		6.70	.70	1.80	3.60	
6		7.15	.85	1.80	2.90	
7		9.10	1.80	1.50	2.70	
8		6.70	2.00	1.50	2.60	
9	11.9	5.75	2.40	1.80	2.50	
10	11.7	5.10	3.20	2.60	2.40	
11	11.4	3.80	2.90	2.90	2.40	
12	10.1	4.00	2.40	3.20	2.60	
13	8.30	4.00	2.20	2.60	2.60	
14	7.90	4.00	1.80	2.20	2.60	
15	7.40	4.00	1.65	2.00	2.60	
16	6.40	3.60	1.65	1.80	2.60	
17	6.00	3.20	1.50	1.80	2.60	
18	5.30	2.20	1.50	1.80	2.70	
19	5.10	2.00	1.50	2.00	2.70	
20	6.40	2.60	1.50	2.00	2.70	
21	6.90	3.30	1.50	2.00	2.70	
22	6.70	3.60	1.50	2.00	2.70	
23	6.40	3.60	1.30	2.00	2.70	
24	6.40	3.20	1.30	2.00	2.70	
25	6.40	2.90	1.30	2.00	2.80	
26	6.40	2.70	1.35	2.20	2.80	
27	6.90	2.70	1.35	2.20	2.80	
28	6.70	2.70	1.30	2.20	2.80	
29	6.90	2.60	1.30	2.20	2.80	
30	6.90	2.60	1.30	2.20	2.80	
31	6.70		1.30	2.20		
Total Sec. Ft. Days	*171.20	132.20	52.20	62.00	81.80	145 Day Period
Mean Sec. Ft.	*7.44	4.41	1.68	2.00	2.73	3.44
Maximum Sec. Ft.	*11.9	9.10	3.20	3.20	3.60	11.9
Minimum Sec. Ft.	* 5.10	2.00	.70	1.30	2.20	.70
Total Ac. Ft.	*339	262	104	123	162	990

* 23 day Period

TABLE 12

*ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF SMITHNECK CREEK ABOVE ALL DIVERSIONS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	6.20	2.60	1.30	2.20	
2		6.20	2.40	1.30	2.70	
3		8.10	2.30	1.30	3.20	
4		7.90	2.35	1.65	3.30	
5		6.70	2.30	1.80	3.60	
6		7.15	2.25	1.80	2.90	
7		9.10	2.10	1.50	2.70	
8		6.70	2.00	1.50	2.60	
9	13.4	5.75	2.40	1.80	2.50	
10	13.2	5.10	3.20	2.60	2.40	
11	12.9	5.00	2.90	2.90	2.40	
12	12.4	5.00	2.40	3.20	2.60	
13	11.1	5.00	2.20	2.60	2.60	
14	11.1	5.00	1.80	2.20	2.60	
15	10.6	5.00	1.65	2.00	2.60	
16	9.50	4.60	1.65	1.80	2.60	
17	9.00	4.40	1.50	1.80	2.60	
18	8.20	3.60	1.50	1.80	2.70	
19	7.90	3.20	1.50	2.00	2.70	
20	8.40	3.20	1.50	2.00	2.70	
21	7.20	3.30	1.50	2.00	2.70	
22	6.90	3.60	1.50	2.00	2.70	
23	6.50	3.60	1.30	2.00	2.70	
24	6.45	3.20	1.30	2.00	2.70	
25	6.45	2.90	1.30	2.00	2.80	
26	6.40	2.70	1.35	2.20	2.80	
27	6.90	2.70	1.35	2.20	2.80	
28	6.70	2.70	1.30	2.20	2.80	
29	6.90	2.60	1.30	2.20	2.80	
30	6.90	2.60	1.30	2.20	2.80	
31	6.70		1.30	2.20		
Total Sec.Ft. Days	**201.70	142.80	57.30	62.05	81.80	145 day Period
Mean Sec.Ft.	**8.77	4.76	1.85	2.00	2.73	3.76
Maximum Sec.Ft.	**13.4	9.10	3.20	3.20	3.60	13.4
Minimum Sec.Ft.	**6.40	2.60	1.30	1.30	2.20	1.30
Total Ac.Ft.	400 **	283	114	123	162	1080

* Combination of Tables 11 and 55.
** 23 day Period

TABLE 13

CONTINOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF BEAR VALLEY CREEK ABOVE ALL DIVERSIONS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	2.20	0.60	0.25	0.25	
2		2.20	.55	.25	.25	
3		2.50	.50	.25	.25	
4		2.50	.45	.30	.25	
5		2.20	.45	.40	.25	
6		2.20	.40	.35	.25	
7		2.20	.50	.35	.25	
8		2.10	.55	.35	.25	
9	6.70	2.00	.55	.35	.25	
10	6.20	1.90	.75	.65	.25	
11	5.60	1.80	.75	.80	.25	
12	5.30	1.70	.70	.65	.25	
13	4.80	1.60	.70	.50	.25	
14	4.50	1.50	.50	.40	.25	
15	4.30	1.50	.40	.35	.25	
16	4.15	1.40	.40	.35	.25	
17	4.00	1.40	.35	.35	.25	
18	3.80	1.30	.35	.30	.25	
19	3.60	1.30	.35	.30	.25	
20	3.40	1.20	.40	.30	.25	
21	3.20	1.20	.35	.25	.25	
22	3.00	1.10	.30	.25	.25	
23	2.80	1.10	.30	.25	.25	
24	2.60	1.00	.30	.25	.25	
25	2.40	1.00	.30	.25	.25	
26	2.45	.90	.30	.25	.25	
27	2.40	.90	.30	.25	.25	
28	2.35	.80	.30	.25	.25	
29	2.30	.70	.25	.25	.25	
30	2.25	.65	.25	.25	.25	
31	2.20		.25	.25		
Total Sec.Ft. Days	84.30*	46.05	13.40	10.55	7.50	145 Day Period
Mean Sec.Ft.	3.67*	1.54	.43	.34	.25	1.12
Maximum Sec.Ft.	6.70*	2.50	.75	.80	.25	6.70
Minimum Sec.Ft.	2.20*	.65	.25	.25	.25	.25
Total Ac. Ft.	167 *	91.3	26.6	20.9	14.9	320

*23 day Period

TABLE 14

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF SMITHNECK CREEK AT LOYALTON-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	24.7	6.80	0.85	0.70	0.70	
2		36.3	6.80	.70	.75	.85	
3		12.7	7.40	.70	.75	1.40	
4		23.2	7.80	.55	.70	1.70	
5		21.4	8.00	.65	.75	2.15	
6		20.4	10.6	.55	.65	2.00	
7		18.1	14.0	.50	.60	1.60	
8		15.1	9.20	.55	.50	2.00	
9		12.5	8.30	.50	.40	2.15	
10		12.0	6.10	.65	.40	1.40	
11		11.4	6.10	.70	.65	1.70	
12		10.8	3.20	.75	.65	1.25	
13		10.2	2.50	.90	.90	1.40	
14		5.90	1.60	.90	.90	1.70	
15		5.00	1.60	.40	.75	2.15	
16		2.80	1.60	.40	.75	2.15	
17		3.30	1.60	.40	.70	2.25	
18		2.80	1.60	.35	.85	2.25	
19		2.70	1.20	.35	.90	2.25	
20		2.70	1.00	.35	.85	2.25	
21		3.70	1.00	.30	.75	2.35	
22		3.70	1.00	.35	.75	2.40	
23		3.40	1.00	.60	.70	2.25	
24	70.7	4.40	1.10	.60	.85	2.25	
25	66.2	5.90	1.00	.60	.90	2.25	
26	60.8	5.30	.90	.65	.85	2.60	
27	56.2	5.90	.70	.80	.70	2.50	
28	52.0	6.30	.70	.65	.65	2.50	
29	45.0	6.30	.65	.60	.70	2.50	
30	37.0	6.50	.85	.65	.90	2.50	
31		6.70		.70	.65		
Total Sec.Ft. Days	387.9*	312.10	115.90	18.20	22.50	59.40	160 day Period
Mean Sec.Ft.	55.4*	10.1	3.86	.59	.73	1.98	6.35
Maximum Sec.Ft.	70.7*	36.3	14.0	.90	.90	2.60	70.7
Minimum Sec.Ft.	37.0*	2.70	.65	.30	.40	.70	.30
Total Ac. Ft.	769 *	619	230	36.1	44.6	118	1820

* 7 day Period

TABLE 15

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF LEMON CREEK AT ROAD CROSSING-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		9.80	0.90	0.49	0.43	0.40	
2		9.10	.90	.49	.43	.40	
3		8.40	.95	.49	.43	.40	
4		7.70	.95	.48	.43	.40	
5		7.00	.95	.48	.43	.40	
6		6.30	1.00	.48	.43	.40	
7		5.60	1.30	.48	.43	.40	
8		4.85	1.10	.47	.42		
9		4.35	.90	.47	.42		
10		4.00	.85	.47	.42		
11		3.70	.80	.47	.42		
12	RECORD	3.40	.75	.47	.41		
13		3.10	.70	.47	.41		
14		2.80	.65	.47	.41		
15		2.50	.60	.46	.41		
16		2.20	.59	.46	.41		
17	NO	2.00	.58	.46	.41	RECORD	
18		1.90	.57	.46	.41		
19		1.80	.56	.46	.41		
20		1.70	.55	.46	.41		
21		1.60	.55	.46	.41		
22		1.50	.54	.45	.41	NO	
23		1.35	.54	.45	.41		
24		1.25	.53	.45	.40		
25		1.15	.53	.45	.40		
26	13.0	1.10	.52	.44	.40		
27	12.5	1.00	.52	.44	.40		
28	11.9	.95	.51	.44	.40		
29	11.2	.90	.50	.44	.40		
30	10.5	.90	.50	.44	.40		
31		.90		.44	.40		
Total Sec. Ft. Days	59.1*	104.80	21.39	14.34	12.81	**2.80	135 Day Period
Mean Sec. Ft.	11.8*	3.38	.71	.46	.41	**.40	1.59
Maximum Sec. Ft.	13.0*	9.80	1.30	.49	.43	**.40	13.0
Minimum Sec. Ft.	10.5*	.90	.50	.44	.40	**.40	.40
Total Ac. Ft.	117 *	208	42.4	28.4	25.4	**5.55	427

* 5 day Period
** 7 day Period

TABLE 16

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF BLINMAN SPRING TRIBUTARY TO LEMON CREEK - 1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	0.60	0.40	0.28	0.22	0.17	
2		.60	.40	.28	.22	.17	
3		.60	.40	.27	.22	.17	
4		.60	.40	.27	.22	.17	
5		.55	.40	.27	.22	.17	
6		.55	.45	.27	.21	.16	
7		.55	.50	.27	.21	.16	
8		.55	.45	.26	.21	NO RECORD	
9		.55	.42	.26	.20		
10		.55	.40	.26	.20		
11		.50	.39	.26	.20		
12		.50	.38	.26	.20		
13		.50	.38	.26	.20		
14		.50	.38	.26	.20		
15		.50	.38	.25	.20		
16		.50	.37	.25	.19		
17		.45	.36	.25	.19		
18		.45	.36	.25	.19		
19		.45	.35	.25	.19		
20		.45	.34	.25	.19		
21		.43	.33	.24	.19		
22		.43	.33	.24	.19		
23		.43	.32	.24	.19		
24		.43	.32	.24	.18		
25		.42	.32	.24	.18		
26	*.75	.41	.30	.23	.18		
27	.75	.41	.30	.23	.18		
28	.70	.40	.30	.23	.18		
29	.65	.40	.30	.23	.18		
30	.65	.40	.29	.23	.18		
31		.40		.23	.18		
Total Sec.Ft. Days	*3.50	15.06	11.02	7.81	6.09	**1.17	135 Day
Mean Sec.Ft.	*.70	.49	.37	.25	.20	**.17	0.33
Maximum Sec.Ft.	*.75	.60	.50	.28	.22	**.17	.75
Minimum Sec.Ft.	*.65	.40	.29	.23	.18	**.16	.16
Total Ac. Ft.	*6.94	29.9	21.9	15.5	12.1	**2.32	88.7

* 5 day Period
** 7 day Period

TABLE 17

*ESTIMATED TOTAL WATER SUPPLY IN CUBIC FEET PER SECOND
OF LEMON CREEK BASIN ABOVE ALL DIVERSION-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		10.4	1.30	0.77	0.65	0.57	
2		9.70	1.30	.77	.65	.57	
3		9.00	1.35	.76	.65	.57	
4		8.30	1.35	.75	.65	.57	
5		7.55	1.35	.75	.65	.57	
6		6.85	1.45	.75	.64	.56	
7		6.15	1.80	.75	.64	.56	
8		5.40	1.55	.73	.63		
9		4.90	1.32	.73	.62		
10		4.55	1.25	.73	.62		
11		4.20	1.19	.73	.62		
12	NO RECORD	3.90	1.13	.73	.61		
13		3.60	1.08	.73	.61		
14		3.30	1.03	.73	.61		
15		3.00	.98	.71	.61		
16		2.70	.96	.71	.60		
17		2.45	.94	.71	.60	NO RECORD	
18		2.35	.93	.71	.60		
19		2.25	.91	.71	.60		
20		2.15	.89	.71	.60		
21		2.03	.88	.70	.60		
22		1.93	.87	.69	.60		
23		1.78	.86	.69	.60		
24		1.68	.85	.69	.58		
25		1.57	.85	.69	.58		
26	13.8	1.51	.82	.67	.58		
27	13.3	1.41	.82	.67	.58		
28	12.6	1.35	.81	.67	.58		
29	11.8	1.30	.80	.67	.58		
30	11.1	1.30	.79	.67	.58		
31		1.30		.67	.58		
Total Sec.Ft. Days	63.1**	119.86	32.41	22.15	18.90	***3.97	135 Day Period
Mean Sec.Ft.	12.6**	3.87	1.08	.71	.61	***.57	1.93
Maximum Sec.Ft.	13.8**	10.4	1.80	.77	.65	***.57	13.8
Minimum Sec.Ft.	11.1**	1.30	.79	.67	.58	***.56	.56
Total Ac. Ft.	125 **	238	64.3	43.9	37.5	**7.87	517

*Combination of Tables 15 and 16.
** 5 day Period
*** 7 day Period

TABLE 18

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF WEBBER CREEK ABOVE HEAD OF TOWN AND PERRY CREEKS - 1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		76.5	88.0	67.0	5.80	3.70	
2		84.0	88.0	66.0	4.90	3.70	
3		86.0	93.0	64.0	4.70	3.70	
4		87.0	88.0	65.0	6.50	3.90	
5		82.0	87.0	65.0	8.10	4.10	
6		75.0	100.	61.0	7.60	3.90	
7		68.0	112.	61.0	7.30	3.90	
8	RECORD	67.0	100.	56.0	7.00	3.90	
9		70.0	98.0	53.0	7.00	3.90	
10		90.0	95.0	51.0	7.30	3.90	
11		97.0	92.0	47.0	8.00	3.90	
12	NO	104.	92.0	43.5	8.30	3.90	
13		107.	90.0	42.5	7.10	3.90	
14		107.	89.0	37.0	6.50	3.90	
15		110.	89.0	14.3	6.00	3.90	
16		108.	89.0	12.1	6.00	3.90	
17		108.	89.0	10.0	5.80	3.90	
18		107.	87.0	8.90	5.80	3.90	
19		105.	84.0	8.90	5.80	3.90	
20		104.	83.0	8.90	5.50	3.90	
21		99.0	80.0	8.50	5.50	3.90	
22		96.0	79.0	8.10	5.50	3.90	
23	135.	94.0	80.0	7.40	5.00	3.90	
24	122.	93.0	76.0	6.70	5.80	4.10	
25	111.	94.0	73.0	6.70	6.00	4.10	
26	105.	94.0	71.0	6.70	5.80	4.30	
27	100.	92.0	71.0	6.50	5.40	4.30	
28	95.0	89.0	69.0	6.50	5.40	4.30	
29	85.0	89.0	68.0	6.50	5.40	4.30	
30	75.5	90.0	68.0	6.00	5.10	4.30	
31		89.0		6.00	4.40		
Total Sec.Ft. Days	828.5*	2861.5	2568.0	917.20	190.30	119.0	161 day Period
Mean Sec.Ft.	104.*	92.2	85.6	29.6	6.14	3.97	46.5
Maximum Sec.Ft.	135.*	110.	112.	67.0	8.30	4.30	135.
Minimum Sec.Ft.	75.5*	67.0	68.0	6.00	4.40	3.70	3.70
Total Ac. Ft.	1640.*	5670.	5090.	1820.	377.	236.	14800.

* 8 day Period

TABLE 19

*ESTIMATED COMBINED NATURAL FLOW IN CUBIC FEET PER SECOND OF COLD CREEK ABOVE JOHNSON DITCHES AND OF WEBBER CREEK AT OLD TRUCKEE ROAD - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	80.2	43.1	18.6	6.90	4.90	
2	88.0	42.1	18.1	5.90	5.10	
3	90.2	48.2	17.6	5.80	5.10	
4	91.2	44.5	17.0	5.70	5.30	
5	85.9	43.5	16.4	5.50	5.50	
6	78.6	54.8	16.1	5.30	5.30	
7	71.6	67.2	15.5	5.10	5.30	
8	70.6	51.3	15.0	4.80	5.30	
9	70.2	48.2	14.6	4.70	5.30	
10	71.8	44.6	14.2	4.90	5.30	
11	72.8	40.5	13.9	6.40	5.30	
12	72.9	40.0	13.4	6.70	5.30	
13	73.9	40.5	13.0	6.00	5.30	
14	71.9	41.8	12.5	5.35	5.30	
15	70.5	41.2	11.9	4.95	5.30	
16	67.5	38.7	10.4	5.15	5.25	
17	66.5	37.7	10.8	5.00	5.25	
18	63.5	35.1	10.3	5.00	5.25	
19	60.8	32.3	10.0	5.00	5.25	
20	59.7	31.7	9.80	4.90	5.25	
21	54.5	30.6	9.40	4.90	5.25	
22	52.6	27.9	9.20	4.90	5.25	
23	50.6	26.4	8.40	4.50	5.25	
24	49.4	25.0	8.10	5.10	5.15	
25	49.4	22.8	8.10	4.90	5.15	
26	51.4	20.5	8.10	4.90	5.35	
27	49.4	20.5	7.80	4.80	5.35	
28	48.0	20.0	7.80	4.80	5.35	
29	46.8	20.2	7.80	4.80	5.35	
30	46.6	19.6	7.20	4.90	5.35	
31	45.0		7.20	4.90		
Total Sec. Ft. Days	2021.7	1100.5	368.2	162.45	157.95	153 day period
Mean Sec. Ft.	65.2	36.7	11.9	5.24	5.26	24.9
Maximum Sec. Ft.	91.2	67.2	18.6	6.90	5.50	91.2
Minimum Sec. Ft.	45.0	19.6	7.20	4.50	4.90	4.50
Total Ac. Ft.	4010	2180	730	322	313	7560

*Combination of Tables 18, 64, 65 and 66.

TABLE 20

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF LITTLE TRUCKEE DITCH AT SUMMIT -1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	DIVERSION	56.0	58.0	0.00		
2		57.0	58.5	.00		
3		56.0	56.1	4.00		
4		55.0	58.0	4.00		
5		55.0	56.6	4.00		
6	NO	56.0	54.3	4.00		
7		56.5	53.7	3.80		
8		58.0	48.0	3.80		
9	30.0	59.0	44.8	3.80		
10	45.0	59.5	42.5	4.00		
11	45.0	60.5	39.8	4.20	NO DIVERSION	
12	48.0	61.0	36.9	4.00		
13	50.0	60.5	36.5	3.60		
14	52.0	59.5	14.0	3.40		
15	53.0	60.1	1.50	3.20		
16	53.0	62.5	.50	3.00		
17	53.0	63.5	.30	3.00		
18	54.0	64.0	.20	3.00		
19	54.0	63.5	.10	3.00		
20	54.0	63.0	.10	2.60		
21	56.0	61.0	NO DIVERSION	2.60		
22	55.0	62.5		2.60		
23	56.0	63.0		2.40		
24	57.0	62.0		2.80		
25	55.0	61.0		2.80		
26	54.0	61.0		2.80		
27	54.0	61.0		2.40		
28	53.0	59.0		2.00		
29	54.0	57.5		1.60		
30	55.0	58.0		1.00		
31	55.0			.00		
Total Sec.Ft. Days	1195.0*	1792.1	660.4	**87.4		115 Day Period
Mean Sec.Ft.	52.0*	59.7	21.3	**2.91		32.5
Maximum Sec.Ft.	57.0*	64.0	58.5	**4.20		64.0
Minimum Sec.Ft.	30.0*	55.0	.00	** .00		.00
Total Ac. Ft.	2370.*	3550.	1310.	**173.		7400.

* 23 day Period
** 30 day Period

TABLE 21

ESTIMATED NET AVAILABLE WATER SUPPLY IN CUBIC FEET PER SECOND OF WEBBER CREEK AT TOWN AND PERRY CREEK DIVISION - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	76.5	85.2	65.5	4.95	3.70	
2	84.0	85.2	64.5	3.90	3.70	
3	86.0	90.1	62.5	3.75	3.70	
4	87.0	88.0	63.5	3.50	3.90	
5	82.0	87.0	65.0	4.90	4.10	
6	75.0	100.	61.0	4.60	3.90	
7	68.0	112.	61.0	4.30	3.90	
8	66.0	100.	56.0	4.00	3.90	
9	68.0	98.0	53.0	4.00	3.90	
10	87.8	95.0	51.0	4.30	3.90	
11	94.7	92.0	47.0	4.80	3.90	
12	102.	92.0	43.5	5.10	3.90	
13	104.	90.0	42.5	4.10	3.90	
14	104.	86.0	37.0	3.50	3.90	
15	108.	86.0	14.3	3.10	3.90	
16	106.	86.0	12.1	3.10	3.90	
17	106.	86.0	10.0	2.90	3.90	
18	104.	84.0	8.90	2.90	3.90	
19	103.	81.1	8.90	2.90	3.90	
20	102.	80.1	8.90	2.70	3.90	
21	96.8	77.3	8.50	2.70	3.90	
22	93.9	76.4	8.10	2.70	3.90	
23	92.0	77.4	7.40	5.00	3.90	
24	90.5	73.5	6.70	5.80	4.10	
25	91.4	70.6	5.85	6.00	4.10	
26	91.4	68.8	5.85	5.80	4.30	
27	89.5	68.8	5.65	5.40	4.30	
28	86.4	67.0	5.65	5.40	4.30	
29	86.3	66.3	5.65	5.40	4.30	
30	87.2	66.5	5.15	5.10	4.30	
31	86.2		5.15	4.40		
Total Sec.Ft. Days	2805.6	2516.3	905.75	131.00	119.00	153 Day Period
Mean Sec.Ft.	90.5	83.9	29.2	4.23	3.97	42.3
Maximum Sec.Ft.	108.	112.	65.5	6.00	4.30	112.
Minimum Sec.Ft.	66.0	66.3	5.15	2.70	3.70	2.70
Total Ac. Ft.	5560.	4990.	1800.	260.	236.	12800.

TABLE 22

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF HAMLIN CREEK ABOVE FORKS - 1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		12.3	9.80	8.40	5.50	5.10	
2		14.3	9.80	8.00	5.50	5.50	
3		15.4	11.3	8.00	5.50	5.50	
4		15.9	12.8	7.60	6.25	5.85	
5		14.8	12.3	7.60	7.10	5.85	
6		12.5	16.9	7.60	7.10	5.50	
7		12.3	21.0	7.60	7.10	5.50	
8	NO RECORD	12.8	17.4	7.60	7.10	5.50	
9		13.3	15.9	7.50	7.10	5.50	
10		14.3	15.3	7.50	7.10	5.50	
11		15.4	15.9	7.50	7.10	5.10	
12		15.9	15.4	7.50	7.10	5.10	
13		16.4	15.4	7.50	7.10	5.10	
14		16.4	15.4	7.50	6.65	5.10	
15		15.9	14.8	7.10	5.85	5.10	
16		15.4	14.3	7.10	5.85	5.10	
17		14.8	14.3	7.10	5.85	5.10	
18		14.8	14.3	7.10	5.85	5.10	
19		13.8	12.8	6.60	5.85	5.10	
20		13.3	11.3	7.00	5.85	5.10	
21		12.8	10.8	6.60	5.85	5.10	
22		12.8	10.3	6.20	5.85	5.10	
23	20.5	13.3	9.80	6.20	5.85	5.10	
24	19.4	13.3	9.80	6.20	5.50	5.10	
25	16.9	13.3	9.80	6.20	5.50	5.10	
26	16.4	13.3	9.40	5.80	5.50	5.10	
27	15.4	13.8	9.40	5.80	5.50	5.10	
28	14.8	12.3	9.40	5.80	5.50	5.10	
29	13.8	11.3	8.90	5.50	5.50	5.10	
30	12.3	10.3	8.90	5.50	5.50	5.50	
31		10.3		5.50	5.10		
Total Sec. Ft. Days	129.5*	426.8	382.90	214.70	189.55	157.70	161 Day Period
Mean Sec. Ft.	16.2*	13.8	12.8	6.93	6.11	5.26	9.32
Maximum Sec. Ft.	20.5*	16.4	21.0	8.40	7.10	5.85	21.0
Minimum Sec. Ft.	12.3*	10.3	8.90	5.50	5.10	5.10	5.10
Total Ac. Ft.	257. *	846.	759.	426.	376.	313.	2980.

* 8 day Period

TABLE 23

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF WEST HAMLIN CREEK ABOVE OLD POWER DITCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.80	1.60	1.40	0.85	0.70	
2	3.00	1.60	1.40	.85	.70	
3	3.00	1.60	1.40	.85	.70	
4	3.00	1.70	1.40	.85	.70	
5	3.00	1.70	1.30	.80	.70	
6	2.80	2.00	1.30	.80	.70	
7	2.80	3.00	1.20	.80	.75	
8	2.80	2.00	1.20	.80	.75	
9	2.70	1.80	1.20	.80	.75	
10	2.70	1.60	1.20	.80	.75	
11	2.60	1.60	1.20	.80	.75	
12	2.60	1.60	1.20	.80	.75	
13	2.50	1.60	1.20	.80	.80	
14	2.50	1.60	1.20	.75	.80	
15	2.40	1.60	1.20	.75	.80	
16	2.40	1.60	1.20	.75	.80	
17	2.30	1.60	1.10	.75	.80	
18	2.30	1.60	1.00	.75	.80	
19	2.20	1.60	1.00	.75	.80	
20	2.20	1.60	1.00	.75	.80	
21	2.10	1.50	1.00	.75	.80	
22	2.00	1.50	1.00	.75	.80	
23	2.00	1.50	1.00	.75	.80	
24	1.90	1.50	.90	.75	.80	
25	1.90	1.50	.90	.75	.80	
26	1.80	1.40	.90	.75	.80	
27	1.70	1.40	.90	.75	.80	
28	1.70	1.40	.90	.70	.80	
29	1.60	1.40	.90	.70	.80	
30	1.60	1.40	.90	.70	.80	
31	1.60		.90	.70		
Total Sec.Ft. Days	72.50	49.10	34.50	23.90	23.10	153 Day Period
Mean Sec.Ft.	2.34	1.64	1.11	.77	.77	1.33
Maximum Sec.Ft.	3.00	3.00	1.40	.85	.80	3.00
Minimum Sec.Ft.	1.60	1.40	.90	.70	.70	.70
Total Ac. Ft.	144.	97.4	68.4	47.4	45.8	403.

TABLE 24

*ESTIMATED TOTAL WATER SUPPLY IN CUBIC FEET PER SECOND OF HAMLIN CREEK ABOVE DIVERSIONS - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	17.2	16.3	14.1	9.15	8.40	
2	19.4	16.3	13.6	8.85	8.60	
3	20.5	17.3	13.6	8.85	8.60	
4	19.4	18.7	13.2	8.60	9.05	
5	18.3	18.2	13.1	8.70	9.05	
6	15.8	19.4	13.1	8.70	8.60	
7	15.6	24.5	12.9	8.70	8.65	
8	16.1	19.9	12.9	8.70	8.65	
9	16.5	18.2	12.8	8.70	8.65	
10	17.5	17.4	12.8	8.70	8.65	
11	18.5	18.0	12.8	8.70	8.55	
12	19.0	17.5	12.8	8.70	8.45	
13	19.4	17.5	12.8	8.70	8.40	
14	21.1	17.5	12.8	8.70	8.40	
15	22.5	16.9	12.4	8.60	8.40	
16	22.0	16.4	12.4	8.60	8.30	
17	21.3	16.4	12.3	8.60	8.30	
18	21.3	16.4	12.2	8.60	8.30	
19	20.2	17.4	11.8	8.60	8.30	
20	19.7	16.4	11.5	8.60	8.30	
21	19.1	16.3	11.0	8.60	8.30	
22	19.0	16.1	10.6	8.60	8.30	
23	19.5	15.8	10.5	8.60	8.30	
24	20.9	15.8	10.4	8.55	8.30	
25	20.9	15.8	10.3	8.55	8.30	
26	20.8	15.2	9.90	8.55	8.30	
27	21.2	15.2	9.70	8.55	8.30	
28	19.6	15.2	9.70	8.50	8.30	
29	18.2	14.6	9.40	8.50	9.30	
30	17.1	14.6	9.20	8.50	8.70	
31	17.1		9.20	8.40		
Total Sec.Ft. Days	594.7	511.2	365.8	267.95	254.00	153 Day Period
Mean Sec.Ft.	19.2	17.0	11.8	8.64	8.47	13.0
Maximum Sec.Ft.	22.5	24.5	14.1	9.15	9.05	24.5
Minimum Sec.Ft.	15.6	14.6	9.20	8.40	8.30	8.30
Total Ac. Ft.	1180.	1010.	725.	531.	504.	3950.

*Combination of Tables 22, 23, 74 and 75.

TABLE 25

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MILLER CREEK ABOVE FORKS-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		18.4	25.5	17.2	6.90	4.40	
2		27.2	25.1	16.8	6.70	4.40	
3		29.3	25.5	16.4	6.60	5.15	
4		31.4	24.7	15.6	6.60	5.85	
5		27.2	24.7	14.9	6.50	5.60	
6		20.9	37.3	14.5	6.40	4.90	
7		20.4	43.9	14.5	6.20	4.40	
8	NO RECORD	22.2	33.1	14.2	5.90	4.40	
9		24.3	30.2	14.2	5.80	4.20	
10		28.1	29.7	14.2	5.80	4.20	
11		29.3	30.2	13.1	6.10	4.00	
12		30.6	30.2	12.4	6.00	4.00	
13		33.6	29.3	12.1	5.80	4.00	
14		35.7	28.5	11.5	5.40	4.00	
15		32.3	27.6	11.1	5.20	4.00	
16		30.2	26.8	10.8	5.15	4.00	
17		29.3	26.4	10.5	5.15	4.00	
18		29.3	26.4	10.2	5.15	4.00	
19		28.1	25.5	9.90	5.15	4.00	
20		25.9	24.7	9.60	5.15	4.00	
21		25.9	23.8	9.00	5.10	4.00	
22	30.9	28.1	23.8	8.60	4.90	4.00	
23	28.1	29.3	23.8	8.40	4.80	4.00	
24	25.5	31.9	23.4	8.30	4.90	4.00	
25	24.3	34.4	23.0	8.30	4.90	4.00	
26	23.8	33.6	21.8	8.00	4.65	4.00	
27	23.0	35.3	20.9	8.00	4.65	4.00	
28	21.8	33.6	20.0	8.00	4.40	4.00	
29	18.0	28.5	18.8	7.50	4.40	4.00	
30	14.5	26.8	18.0	7.20	4.40	4.30	
31		26.4		7.20	4.40		
Total Sec. Ft. Days	209.9*	887.5	792.6	352.20	169.15	127.80	162 day Period
Mean Sec. Ft.	23.3*	28.6	26.4	11.4	5.46	4.26	15.7
Maximum Sec. Ft.	30.9*	35.7	43.9	17.2	6.90	5.85	43.9
Minimum Sec. Ft.	14.5*	18.4	18.0	7.20	4.40	4.00	4.00
Total Ac. Ft.	416. *	1760.	1570.	698.	335.	253.	5030.

* 9 day Period

TABLE 26

*ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MILLER CREEK ABOVE ALL DIVERSIONS-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		18.7	28.6	20.0	8.30	5.40	
2		27.5	28.2	19.5	8.10	5.40	
3		29.6	28.6	19.0	8.00	6.35	
4		31.7	27.8	18.2	8.00	7.15	
5		29.0	27.8	17.4	7.90	6.80	
6		23.9	40.7	17.0	7.80	6.00	
7		23.4	47.4	17.0	7.60	5.40	
8	RECORD	25.3	36.5	16.7	7.20	5.40	
9		27.4	33.5	16.7	7.10	5.20	
10		31.3	33.0	16.7	7.10	5.20	
11		32.5	33.5	15.5	7.40	5.00	
12	NO	33.9	33.5	14.7	7.30	5.00	
13		37.0	32.6	14.3	7.10	5.00	
14		39.1	31.8	13.7	6.70	5.00	
15		35.7	30.8	13.2	6.50	5.00	
16		33.5	30.0	12.9	6.35	5.00	
17		32.5	29.6	12.5	6.35	5.00	
18		32.5	29.6	12.1	6.35	5.00	
19		31.3	28.6	11.8	6.35	5.00	
20		29.0	27.8	11.5	6.35	5.00	
21		29.0	26.9	10.8	6.30	5.00	
22	31.2	31.3	26.9	10.4	6.10	5.00	
23	28.4	32.5	26.9	10.1	6.00	5.00	
24	25.8	35.2	26.5	10.0	6.10	5.00	
25	24.6	37.8	26.1	10.0	6.10	5.00	
26	24.1	37.0	24.8	9.60	5.75	5.00	
27	23.4	38.7	23.9	9.60	5.75	5.00	
28	22.1	37.0	23.0	9.60	5.40	5.00	
29	18.3	31.7	21.7	9.00	5.40	5.00	
30	14.8	30.0	20.9	8.70	5.40	5.00	
31		29.5		8.70	5.40		
Total Sec.Ft. Days	** 212.7	974.5	887.5	416.90	207.55	158.30	162 Day Period
Mean Sec.Ft.	** 23.6	31.4	29.6	13.4	6.70	5.28	17.6
Maximum Sec.Ft.	** 31.2	39.1	47.4	20.0	8.30	7.15	47.4
Minimum Sec.Ft.	** 14.8	18.7	20.9	8.70	5.40	5.00	5.00
Total Ac.Ft.	** 422	1930	1760	827	412	314	5670

*Combination of Tables 25 and 77.
**9 day Period.

TABLE 27

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF WEST BRANCH OF MILLER CREEK AT HEAD-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	10.5	14.5	9.30	3.90	2.50	
2		15.5	14.3	9.10	3.70	2.50	
3		16.7	14.5	8.90	3.70	2.90	
4		17.9	14.1	8.40	3.70	3.30	
5		15.5	14.1	8.10	3.60	3.10	
6		11.9	21.2	7.80	3.60	2.70	
7		11.6	24.1	7.80	3.50	2.50	
8		12.7	18.2	7.70	3.30	2.50	
9		13.9	16.6	7.60	3.20	2.40	
10		16.0	16.4	7.10	3.20	2.40	
11		16.7	16.6	6.60	3.40	2.30	
12		17.5	16.6	6.20	3.40	2.30	
13		19.2	16.1	6.10	3.20	2.30	
14		20.4	15.7	5.80	3.00	2.30	
15		18.4	15.2	5.60	2.90	2.30	
16		17.2	14.8	5.40	2.90	2.20	
17		16.7	14.5	5.20	2.90	2.20	
18		16.7	14.5	5.10	2.90	2.20	
19		16.0	14.0	5.00	2.90	2.20	
20		14.8	13.6	4.80	2.90	2.20	
21		14.8	13.1	4.50	2.80	2.20	
22	17.6	16.0	13.1	4.30	2.70	2.20	
23	16.0	16.7	13.1	4.20	2.70	2.20	
24	14.6	18.2	12.9	4.20	2.70	2.20	
25	13.9	19.6	12.7	4.20	2.70	2.20	
26	13.6	19.2	12.0	4.00	2.60	2.20	
27	13.1	20.2	11.5	4.00	2.60	2.20	
28	12.4	19.2	11.0	4.00	2.50	2.20	
29	10.3	16.3	10.4	3.80	2.50	2.20	
30	8.30	15.3	9.90	3.60	2.50	2.40	
31		15.1		3.60	2.50		
Total Sec.Ft. Days	119.8*	506.4	439.3	182.00	94.60	71.50	162 day Period
Mean Sec.Ft.	13.3*	16.3	14.6	5.87	3.05	2.38	8.73
Maximum Sec.Ft.	17.6*	20.4	24.1	9.30	3.90	3.30	24.1
Minimum Sec.Ft.	* 8.30	10.5	9.90	3.60	2.50	2.20	2.20
Total Acre-Ft.	238*	1000	871	361	188	142	2800

* 9 day Period

TABLE 28

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF TURNER CREEK BELOW OLD SAWMILL-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		15.4	4.60	2.50	2.00	2.00	
2		21.8	4.60	2.50	2.00	2.30	
3		23.8	4.60	2.50	2.00	2.60	
4		23.8	4.40	2.50	2.00	2.70	
5		20.0	4.40	2.50	2.00	2.60	
6		16.0	10.0	2.40	2.00	2.60	
7		15.9	15.4	2.40	2.00	2.50	
8		15.4	6.90	2.40	2.00	2.50	
9		18.9	5.60	2.40	2.00	2.30	
10		20.8	5.20	2.40	2.00	2.10	
11		20.3	5.00	2.30	2.00	2.10	
12	-NO RECORD-	21.8	4.80	2.30	2.00	2.10	
13		22.8	4.40	2.20	2.00	2.00	
14		20.3	4.20	2.20	2.00	2.00	
15		15.9	4.10	2.20	2.00	2.00	
16		13.5	3.80	2.20	2.00	2.00	
17		12.0	3.60	2.10	2.00	2.00	
18		11.0	3.40	2.00	2.00	2.00	
19		9.00	3.10	2.00	2.00	2.00	
20		7.50	3.00	2.00	2.00	2.00	
21		7.20	2.90	2.00	2.00	2.00	
22		6.60	2.80	2.00	2.00	2.00	
23		6.60	2.70	2.00	2.00	2.00	
24		6.60	2.60	2.00	2.00	2.00	
25		6.40	2.20	2.00	2.00	2.00	
26	22.2	6.10	2.40	2.00	2.00	2.00	
27	21.3	5.60	2.40	2.00	2.00	2.00	
28	21.3	5.60	2.50	2.00	2.00	2.00	
29	18.9	5.00	2.50	2.00	2.00	2.00	
30	15.9	4.80	2.50	2.00	2.00	2.00	
31		4.80		2.00	2.00		
Total Sec.Ft. Days	99.6*	411.20	130.60	68.00	62.00	64.40	158 day Period
Mean Sec.Ft.	19.9*	13.3	4.35	2.19	2.00	2.15	5.29
Maximum Sec.Ft.	22.2*	23.8	15.4	2.50	2.00	2.70	23.8
Minimum Sec.Ft.	15.9*	4.80	2.20	2.00	2.00	2.00	2.00
Total Ac. Ft.	198 *	815	259	135	123	128	1660

* 5 day Period

TABLE 29

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF TURNER CANYON ABOVE DIVERSION-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.50	1.00	0.70	0.30	0.30	
2	2.60	1.00	.60	.30	.30	
3	2.60	1.00	.60	.30	.30	
4	2.60	.90	.60	.30	.30	
5	2.40	.90	.60	.30	.30	
6	2.20	1.00	.60	.30	.30	
7	2.00	1.50	.60	.30	.30	
8	1.90	1.00	.60	.30	.30	
9	1.80	.90	.60	.30	.30	
10	1.80	.80	.50	.30	.30	
11	1.80	.80	.50	.30	.30	
12	1.90	.80	.50	.30	.30	
13	1.90	.80	.50	.30	.30	
14	1.80	.80	.50	.30	.30	
15	1.70	.80	.50	.30	.30	
16	1.60	.80	.40	.30	.30	
17	1.50	.80	.40	.30	.30	
18	1.40	.80	.40	.30	.30	
19	1.30	.80	.40	.30	.30	
20	1.20	.80	.40	.30	.30	
21	1.20	.80	.40	.30	.30	
22	1.20	.80	.40	.30	.30	
23	1.20	.80	.40	.30	.30	
24	1.20	.80	.40	.30	.30	
25	1.20	.70	.40	.30	.30	
26	1.10	.70	.30	.30	.30	
27	1.10	.70	.30	.30	.30	
28	1.10	.70	.30	.30	.30	
29	1.10	.70	.30	.30	.30	
30	1.00	.70	.30	.30	.30	
31	1.00		.30	.30		
Total Sec.Ft. Days	50.90	25.40	14.30	9.30	9.00	153 day Period
Mean Sec.Ft.	1.64	.85	.46	.30	.30	0.71
Maximum Sec.Ft.	2.60	1.50	.70	.30	.30	2.60
Minimum Sec.Ft.	1.00	.70	.30	.30	.30	.30
Total Ac. Ft.	101	50.4	28.4	18.4	17.8	216

TABLE 30

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF SPRING BROOK AT JUNCTION WITH TURNER CREEK - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.20	1.30	1.00	1.70	1.60	
2	2.20	1.30	1.10	1.70	1.60	
3	2.20	1.30	1.10	1.70	1.60	
4	2.20	1.30	1.10	1.70	1.60	
5	2.10	1.30	1.40	1.70	1.60	
6	2.00	4.00	1.60	1.70	1.60	
7	1.80	6.00	1.60	1.70	1.60	
8	1.80	4.00	1.60	1.70	1.60	
9	1.80	3.00	1.60	1.70	1.60	
10	1.90	2.10	1.60	1.70	1.60	
11	2.00	1.80	1.60	1.70	1.60	
12	2.10	1.70	1.60	1.70	1.60	
13	2.20	1.60	1.70	1.60	1.60	
14	2.20	1.60	1.70	1.60	1.60	
15	1.90	1.60	1.70	1.60	1.60	
16	1.70	1.60	1.70	1.60	1.60	
17	1.70	1.60	1.70	1.60	1.60	
18	1.70	1.60	1.70	1.60	1.60	
19	1.60	1.60	1.70	1.60	1.60	
20	1.60	1.60	1.70	1.60	1.60	
21	1.60	1.60	1.70	1.60	1.60	
22	1.60	1.60	1.70	1.60	1.60	
23	1.60	1.60	1.70	1.60	1.60	
24	1.60	1.60	1.70	1.60	1.60	
25	1.60	1.50	1.70	1.60	1.60	
26	1.60	1.50	1.70	1.60	1.60	
27	1.60	1.50	1.70	1.60	1.60	
28	1.30	1.50	1.70	1.60	1.60	
29	1.30	1.50	1.70	1.60	1.60	
30	1.30	1.00	1.70	1.60	1.60	
31	1.30		1.70	1.60		
Total Sec.Ft. Days	55.30	56.80	49.20	50.80	48.00	153 day Period
Mean Sec.Ft.	1.78	1.89	1.59	1.64	1.60	1.70
Maximum Sec.Ft.	2.20	6.00	1.70	1.70	1.60	6.00
Minimum Sec.Ft.	1.30	1.00	1.00	1.60	1.60	1.00
Total Ac. Ft.	110	113	97.6	101	95.2	517

TABLE 31

*ESTIMATED TOTAL WATER SUPPLY IN CUBIC FEET PER SECOND OF TURNER CREEK ABOVE ALL DIVERSIONS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	21.4	8.50	5.30	4.80	4.50	
2	27.9	8.50	5.30	4.80	4.50	
3	29.9	8.50	5.30	4.80	4.50	
4	29.9	8.20	5.20	4.80	4.60	
5	25.8	8.20	5.50	4.80	4.50	
6	21.5	16.8	5.60	4.70	4.50	
7	21.0	24.7	5.50	4.70	4.40	
8	20.4	13.6	5.50	4.70	4.40	
9	23.9	11.2	5.50	4.70	4.50	
10	26.0	9.70	5.40	4.70	4.60	
11	25.7	9.20	5.30	4.70	4.60	
12	27.5	8.90	5.30	4.70	4.60	
13	28.7	8.40	5.30	4.60	4.50	
14	26.1	8.10	5.30	4.60	4.50	
15	21.3	8.00	5.30	4.60	4.50	
16	18.6	7.70	5.20	4.60	4.50	
17	17.0	7.50	5.10	4.50	4.50	
18	15.9	7.30	5.00	4.50	4.50	
19	13.7	7.00	5.00	4.50	4.50	
20	12.1	6.90	5.00	4.50	4.50	
21	11.8	6.70	5.00	4.50	4.50	
22	11.2	6.60	5.00	4.50	4.50	
23	11.2	6.50	5.00	4.50	4.50	
24	11.2	6.40	5.00	4.50	4.50	
25	11.0	5.70	5.00	4.40	4.50	
26	10.6	5.90	4.90	4.40	4.50	
27	10.1	5.90	4.90	4.40	4.50	
28	9.80	5.90	4.90	4.40	4.50	
29	9.10	5.90	4.90	4.40	4.50	
30	8.80	5.40	4.90	4.40	4.50	
31	8.80		4.90	4.40		
Total Sec.Ft. Days	567.9	257.80	160.30	142.10	135.20	153 day Period
Mean Sec.Ft.	18.3	8.59	5.17	4.58	4.51	8.26
Maximum Sec.Ft.	29.9	24.7	5.60	4.80	4.60	29.9
Minimum Sec.Ft.	8.80	5.40	4.90	4.40	4.50	4.40
Total Ac. Ft.	1130	511	318	282	268	2510

* Combination of Tables 28, 29, 30 & 78

TABLE 32

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF TURNER CREEK AT STATE HIGHWAY-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	6.50	2.70	2.80	3.00	
2		6.30	2.70	2.70	3.00	
3		8.30	2.70	2.70	3.10	
4		8.10	2.50	2.70	3.30	
5		6.90	2.70	2.70	3.50	
6		18.0	2.50	2.70	3.50	
7		32.4	2.50	2.70	3.50	
8		16.8	2.70	2.70	3.40	
9		11.0	3.00	2.60	3.40	
10		9.40	3.30	2.60	3.40	
11		9.00	3.00	2.60	3.40	
12		7.00	3.50	2.70	3.30	
13		7.00	3.40	2.70	3.30	
14	24.5	7.00	2.90	2.70	3.30	
15	18.3	6.90	3.10	2.70	3.20	
16	15.5	6.10	2.80	2.80	3.20	
17	13.6	6.00	3.10	2.80	3.20	
18	12.8	5.60	3.00	2.80	3.20	
19	11.5	5.00	3.20	2.90	3.20	
20	10.4	4.00	3.20	3.00	3.20	
21	9.80	4.50	3.20	3.10	3.20	
22	9.40	4.20	3.40	3.20	3.20	
23	9.00	3.80	3.10	3.20	3.10	
24	10.1	3.70	3.00	3.30	3.10	
25	10.7	3.60	3.10	3.30	3.10	
26	9.40	3.30	3.20	3.20	3.10	
27	8.70	3.00	3.50	3.10	3.10	
28	8.00	2.80	3.50	3.00	3.10	
29	7.30	2.70	3.40	2.90	3.10	
30	7.30	2.70	2.90	2.90	3.10	
31	7.20		2.80	2.90		
Total Sec.Ft. Days	*203.50	221.60	93.60	88.70	96.80	140 day Period
Mean Sec.Ft.	*11.3	7.39	3.02	2.86	3.23	5.03
Maximum Sec.Ft.	*24.5	32.4	3.50	3.30	3.50	32.4
Minimum Sec.Ft.	*7.20	2.70	2.50	2.60	3.00	2.50
Total Ac. Ft.	*404	439	186	176	192	1400

*18 day period

TABLE 33

**ESTIMATED TOTAL FLOW IN CUBIC FEET PER SECOND OF TURNER CREEK WATER PASSING STATE HIGHWAY - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	8.30	3.10	2.80	3.00	
2		8.10	3.10	2.70	3.00	
3		10.1	3.10	2.70	3.10	
4		9.90	2.90	2.70	3.30	
5		8.70	3.10	2.70	3.50	
6		19.0	2.90	2.70	3.50	
7		32.6	2.90	2.70	3.50	
8		17.0	2.90	2.70	3.40	
9		11.2	3.40	2.60	3.40	
10		9.60	4.10	2.60	3.40	
11		9.20	3.80	2.60	3.40	
12		7.20	3.50	2.70	3.30	
13		7.20	3.40	2.70	3.30	
14	25.0	7.20	2.90	2.70	3.30	
15	18.8	7.10	3.10	2.70	3.20	
16	16.0	6.30	2.80	2.80	3.20	
17	14.1	6.50	3.10	2.80	3.20	
18	13.3	6.60	3.00	2.80	3.20	
19	13.2	6.20	3.20	2.90	3.20	
20	13.1	5.20	3.20	3.00	3.20	
21	11.5	5.70	3.20	3.10	3.20	
22	11.1	5.70	3.40	3.20	3.20	
23	10.7	5.30	3.10	3.20	3.10	
24	11.3	4.70	3.00	3.30	3.10	
25	11.0	4.20	3.10	3.30	3.10	
26	10.6	3.90	3.20	3.20	3.10	
27	11.1	3.60	3.50	3.10	3.10	
28	11.5	3.40	3.50	3.00	3.10	
29	9.10	3.30	3.40	2.90	3.10	
30	9.10	3.20	2.90	2.90	3.10	
31	9.00		2.80	2.90		
Total Sec. Ft. Days	*229.50	246.20	98.60	88.70	96.80	140 day Period
Mean Sec. Ft.	*12.8	8.21	3.18	2.86	3.23	5.43
Maximum Sec. Ft.	*25.0	32.6	4.10	3.30	3.50	32.6
Minimum Sec. Ft.	*9.00	3.20	2.80	2.60	3.00	2.60
Total Ac. Ft.	*455	488	196	176	192	1510

* 18 day period

** Includes flow in Church Ditch

TABLE 34

CONTINUOUS RECORD OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF FLETCHER CREEK* ABOVE CALPINE-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		3.85	2.10	0.90	0.45		
2		3.60	2.10	.85	.45		
3		3.25	2.20	.80	.45		
4		3.15	2.10	.80	.45		
5		2.90	2.00	.80	.45		
6		2.75	3.15	.80	.45		
7		2.75	4.95	.80	.45		
8		2.80	3.25	.80	.45		
9		2.90	2.75	.80	.45		
10		3.05	2.50	.80	.45		
11		3.10	2.20	.75	.45		
12	RECORD	3.15	2.10	.75	.45	RECORD	
13		3.25	2.00	.75	.40		
14		3.35	1.90	.75	.40		
15		3.15	1.80	.75	.35		
16		2.90	1.70	.75	.35		
17		2.80	1.65	.70	.30		
18	NO	2.80	1.60	.65	.30	NO	
19		2.75	1.60	.60	.30		
20		2.50	1.55	.60	.25		
21		2.40	1.50	.55	.25		
22		2.50	1.45	.55	.25		
23		2.40	1.35	.55	.25		
24		2.50	1.30	.50	.25		
25		2.60	1.20	.50	.25		
26		2.60	1.10	.50	.25		
27		2.50	1.05	.50	.20		
28		2.50	1.00	.50	.20		
29	6.00	2.40	.95	.50	.20		
30	4.10	2.30	.95	.50	.20		
31		2.20		.50	.20		
Total Sec.Ft. Days	**10.10	87.65	57.05	20.85	10.55		125 day Period
Mean Sec.Ft.	**5.05	2.83	1.90	.67	.34		1.50
Maximum Sec.Ft.	**6.00	3.85	4.95	.90	.45		6.00
Minimum Sec.Ft.	**4.10	2.20	.95	.50	.20		.20
Total Ac. Ft.	**20.0	174	113	41.3	20.9		369

* Water diverted for town of Calpine not included. See Table 35.
** 2 day period

TABLE 35

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF CALPINE PIPE LINE FROM FLETCHER CREEK AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	0.60	0.60	0.60	0.60	NO RECORD	
2	.60	.60	.60	.60		
3	.60	.60	.60	.60		
4	.60	.60	.60	.60		
5	.60	.60	.60	.60		
6	.60	.60	.60	.60		
7	.60	.60	.60	.60		
8	.60	.60	.60	.60		
9	.60	.60	.60	.60		
10	.60	.60	.60	.60		
11	.60	.60	.60	.60		
12	.60	.60	.60	.60		
13	.60	.60	.60	.60		
14	.60	.60	.60	.60		
15	.60	.60	.60	.60		
16	.60	.60	.60	.60		
17	.60	.60	.60	.60		
18	.60	.60	.60	.60		
19	.60	.60	.60	.60		
20	.60	.60	.60	.60		
21	.60	.60	.60	.60		
22	.60	.60	.60	.60		
23	.60	.60	.60	.60		
24	.60	.60	.60	.60		
25	.60	.60	.60	.60		
26	.60	.60	.60	.60		
27	.60	.60	.60	.60		
28	.60	.60	.60	.60		
29	.60	.60	.60	.60		
30	.60	.60	.60	.60		
31	.60		.60	.60		
Total Sec.Ft. Days	18.60	18.00	18.60	18.60		123 day Period
Mean Sec.Ft.	.60	.60	.60	.60		0.60
Maximum Sec.Ft.	.60	.60	.60	.60		.60
Minimum Sec.Ft.	.60	.60	.60	.60		.60
Total Ac. Ft.	36.9	35.7	36.9	36.9		146

TABLE 36

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF FLETCHER CREEK BASIN SPRING CHANNELS ABOVE CALPINE-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.20	1.20	0.60	0.55		
2	2.10	1.10	.60	.55		
3	2.00	1.10	.60	.55		
4	2.00	1.10	.60	.55		
5	1.90	1.10	.60	.55		
6	1.90	1.40	.60	.55		
7	1.80	2.00	.60	.55		
8	1.75	1.50	.60	.55		
9	1.75	1.30	.60	.50		
10	1.75	1.10	.60	.50		
11	1.70	1.00	.60	.50		
12	1.70	.90	.60	.50		
13	1.70	.90	.60	.50	RECORD	
14	1.70	.80	.60	.50		
15	1.70	.80	.60	.50		
16	1.60	.80	.60	.45		
17	1.60	.70	.60	.45	NO	
18	1.50	.70	.60	.45		
19	1.50	.70	.60	.45		
20	1.40	.70	.60	.45		
21	1.30	.60	.60	.40		
22	1.30	.60	.60	.40		
23	1.30	.60	.60	.40		
24	1.30	.60	.60	.40		
25	1.30	.60	.60	.40		
26	1.20	.60	.60	.40		
27	1.20	.60	.60	.40		
28	1.20	.60	.60	.40		
29	1.20	.60	.60	.40		
30	1.20	.60	.60	.40		
31	1.20		.60	.40		
Total Sec.Ft. Days	48.95	26.90	18.60	14.55		123 day Period
Mean Sec.Ft.	1.58	.90	.60	.47		0.89
Maximum Sec.Ft.	2.20	2.00	.60	.55		2.20
Minimum Sec.Ft.	1.20	.60	.60	.40		.40
Total Ac.Ft.	97.1	53.3	36.9	28.9		216

TABLE 37

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF CRAYCROFT CREEK AT BECKWITH ROAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.00	0.50				
2	1.90	.50				
3	1.80	.50				
4	1.70	.40				
5	1.60	.40				
6	1.50	1.00				
7	1.50	2.00				
8	1.50	1.50				
9	1.40	1.00				
10	1.40	.80				
11	1.30	.60	FLOW	FLOW	FLOW	
12	1.30	.50				
13	1.20	.40				
14	1.20	.30				
15	1.10	.20				
16	1.00	.20	NO FLOW	NO FLOW	NO FLOW	
17	.90	.15				
18	.80	.15				
19	.70	.10				
20	.60	.10				
21	.50	FLOW				
22	.50					
23	.50					
24	.50					
25	.50					
26	.50	NO FLOW				
27	.50					
28	.50					
29	.50					
30	.50					
31	.50					
Total Sec.Ft. Days	31.90	*11.30				50 day Period
Mean Sec.Ft.	1.03	* .56				0.86
Maximum Sec.Ft.	2.00	*2.00				2.00
Minimum Sec.Ft.	.50	* .10				.10
Total Ac. Ft.	63.3	*22.4				85.7

* 20 day Period

TABLE 38

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF TURNER CREEK AT LANE TO MOUNDS - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	4.50	1.00	2.60	2.90	
2		4.30	2.00	2.50	2.90	
3		8.30	2.60	2.50	3.00	
4		8.10	2.90	2.50	3.20	
5		7.00	3.00	2.50	3.40	
6		19.0	2.90	2.50	3.40	
7		34.0	2.90	2.50	3.40	
8		18.0	3.00	2.50	3.30	
9		12.0	3.40	2.50	3.30	
10		10.0	3.60	2.40	3.30	
11		9.50	3.40	2.40	3.30	
12		8.00	3.60	2.50	3.20	
13		7.00	3.50	2.50	3.20	
14		7.00	3.20	2.50	3.20	
15	21.0	7.00	3.00	2.50	3.10	
16	17.0	6.30	2.90	2.60	3.10	
17	15.0	6.10	3.00	2.60	3.10	
18	14.5	5.70	2.90	2.60	3.10	
19	13.2	5.20	3.00	2.60	3.10	
20	12.0	4.70	3.10	2.80	3.10	
21	11.0	4.30	3.10	2.90	3.10	
22	10.5	4.00	3.20	3.00	3.10	
23	10.0	3.60	3.10	3.00	3.00	
24	10.5	1.00	3.00	3.10	3.00	
25	11.0	.80	3.00	3.10	3.00	
26	10.0	.80	3.10	3.10	3.00	
27	6.00	.80	3.30	3.10	3.00	
28	4.80	.80	3.30	3.00	3.00	
29	4.30	.80	3.20	2.90	3.00	
30	4.30	.80	2.90	2.80	3.00	
31	4.20		2.80	2.80		
Total Sec. Ft. Days	*179.30	209.40	92.90	83.40	93.80	139 day Period
Mean Sec. Ft.	*10.6	6.98	3.00	2.69	3.13	4.74
Maximum Sec. Ft.	*21.0	34.0	3.60	3.10	3.40	34.0
Minimum Sec. Ft.	*4.20	.80	1.00	2.40	2.90	.80
Total Ac. Ft.	*356	415	184	165	186	1310

* 17 day period

TABLE 39

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF WEST OF MOUNDS BRANCH OF NORTH BRANCH OF MILLER CREEK WEST OF MOUNDS - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	2.30	1.60	0.20	0.30	
2		2.30	1.30	.20	.30	
3		2.30	1.00	.20	.30	
4		2.30	1.00	.20	.30	
5		2.00	1.60	.20	.30	
6		3.00	1.60	.20	.20	
7		3.00	1.60	.20	.20	
8		2.50	1.60	.20	.20	
9		2.20	1.60	.20	.20	
10		2.00	1.50	.20	.20	
11		1.90	1.50	.20	.20	
12		1.80	1.50	.20	.20	
13		1.70	1.40	.20	.20	
14		1.70	1.40	.20	.20	
15		1.60	1.30	.20	.20	
16		1.60	1.30	.50	.20	
17		1.60	1.30	.50	.20	
18		1.50	1.10	.50	.20	
19	3.10	1.40	.80	.50	.20	
20	3.00	1.40	.50	.50	.20	
21	2.90	1.40	.30	.40	.20	
22	2.80	1.40	.30	.40	.20	
23	2.70	1.30	.30	.40	.20	
24	2.70	1.30	.30	.40	.20	
25	2.60	1.60	.20	.40	.20	
26	2.60	1.60	.20	.40	.20	
27	2.50	1.60	.20	.40	.20	
28	2.40	1.60	.20	.40	.20	
29	2.40	1.60	.20	.40	.20	
30	2.40	1.60	.20	.30	.20	
31	2.40		.20	.30		
Total Sec.Ft. Days	*34.50	55.10	29.10	9.70	6.50	135 day Period
Mean Sec.Ft.	*2.65	1.84	.94	.31	.22	1.00
Maximum Sec.Ft.	*3.10	3.00	1.60	.50	.30	3.10
Minimum Sec.Ft.	*2.40	1.30	.20	.20	.20	.20
Total Ac. Ft.	*68.4	109	57.7	19.2	12.9	267

* 13 day period

TABLE 40

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF WEST SIDE CANAL EAST OF MOUNDS** - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	18.0	7.00	10.0	NO RECORD	
2		18.0	7.00	10.0		
3		18.0	7.00	9.50		
4		17.0	6.80	9.50		
5		17.0	6.80	9.50		
6		40.0	6.80	9.00		
7		50.0	6.70	8.00		
8		30.0	6.70	4.00		
9		24.0	6.90	4.00		
10		23.0	7.10	4.50		
11		23.0	7.30	4.50		
12		22.0	7.40	5.00		
13		20.0	7.50	5.00		
14		19.0	7.60	5.00		
15	32.0	19.0	7.80	5.50		
16	30.0	18.0	8.00	5.50		
17	29.0	18.0	10.5	5.50		
18	29.0	17.0	11.0	5.50		
19	28.0	16.0	11.0	5.50		
20	26.0	15.0	10.5	5.50		
21	26.0	14.0	10.5	5.50		
22	26.0	13.0	10.0	5.50		
23	27.0	12.0	10.0	5.00		
24	26.0	11.0	9.50	5.00		
25	25.0	10.0	9.50	5.00		
26	24.0	9.00	11.5	5.00		
27	24.0	8.00	11.5	5.00		
28	25.0	8.00	11.0	5.00		
29	23.0	7.00	11.0	5.00		
30	21.0	7.00	10.5	5.00		
31	19.0		10.5	5.00		
Total Sec.Ft. Days	*440.0	541.00	272.90	186.50		139 day Period
Mean Sec.Ft.	*25.9	18.0	8.80	6.01		10.4
Maximum Sec.Ft.	*32.0	50.0	11.5	10.0		50.0
Minimum Sec.Ft.	*19.0	7.00	6.70	4.00		4.00
Total Ac. Ft.	*873	1070	541	370		2850

* 17 day Period

** Below head of Turner Ditch

TABLE 41

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF TURNER DITCH FROM WEST SIDE CANAL AT HEAD-1936

DAy	May	Jun.	Jul.	Aug.	Sep.	
1		5.90	4.10			
2		5.80	4.00			
3		6.00	3.90			
4		6.00	3.80			
5		6.00	3.70			
6	NO RECORD	8.00	4.00	NO DIVERSION	NO DIVERSION	
7		8.50	4.70			
8		8.00	4.60			
9		7.60	4.50			
10		7.20	4.40			
11		6.90	4.30			
12		6.60	4.20			
13		6.30	4.00			
14		6.00	3.80			
15		5.70	3.60			
16	3.00	5.40	3.40			
17	3.00	5.10	3.20			
18	3.00	4.90	3.50			
19	3.00	4.70	3.80			
20	6.50	4.50	3.70			
21	6.50	4.30	3.60			
22	6.40	4.10	3.50			
23	6.40	3.90	3.20			
24	6.30	3.70	3.00			
25	6.20	3.50	2.80			
26	6.10	4.40	NO DIVERSION			
27	6.00	4.40				
28	6.00	4.30				
29	6.00	4.30				
30	6.00	4.20				
31	6.00					
Total Sec.Ft. Days	*86.40	166.20	**95.30			71 day Period
Mean Sec.Ft.	*5.40	5.54	**3.81			4.90
Maximum Sec.Ft.	*6.50	8.50	**4.70			8.50
Minimum Sec.Ft.	*3.00	3.50	**2.80			2.80
Total Ac. Ft.	*171	330	189 **			690

* 16 day period
** 25 day period

TABLE 42

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF EAST DRAIN FROM HAMLIN CREEK OPPOSITE MOUNDS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	9.00	0.50	0.20	NO RECORD	
2		9.00	.50	.10		
3		8.00	.40	.10		
4		8.00	.40	.10		
5		8.00	.40	.10		
6		15.0	.40	.10		
7		20.0	.40	.10		
8		12.0	.40	.10		
9		11.0	.40	.10		
10		11.0	1.00	.10		
11		11.0	1.60	.20		
12		11.0	1.20	.40		
13		11.0	1.00	.60		
14		10.5	.70	.80		
15	8.00	9.00	.40	1.00		
16	8.00	8.00	.20	1.20		
17	8.00	7.00	.30	1.20		
18	8.00	6.00	.30	1.30		
19	7.90	5.00	.30	1.40		
20	8.00	4.50	.30	1.00		
21	8.30	4.00	1.00	.60		
22	8.50	3.50	.80	.40		
23	9.00	3.00	.60	.20		
24	9.50	2.50	.60	.10		
25	10.0	2.00	.50	.10		
26	10.0	1.60	.30	.10		
27	9.80	1.30	.30	.10		
28	9.80	1.00	.30	.10		
29	9.50	.80	.30	.10		
30	9.00	.60	.30	.10		
31	9.00		.30	.10		
Total Sec.Ft. Days	*150.30	214.30	16.40	12.20		109 day Period
Mean Sec.Ft.	*8.84	7.14	.53	.39		3.61
Maximum Sec.Ft.	*10.0	20.0	1.60	1.40		20.0
Minimum Sec.Ft.	*7.90	.60	.20	.10		.10
Total Ac. Ft.	*298	425	32.5	24.2		780

* 17 day period

TABLE 43

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MIDDLE FORK OF FEATHER RIVER OPPOSITE MOUNDS*-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	70.0	42.0	NO RECORD	NO RECORD	
2		70.0	42.0			
3		75.0	42.0			
4		73.0	42.0			
5		72.0	44.0			
6		90.0	41.0			
7		110	41.0			
8		100	38.0			
9		95.0	35.0			
10		85.0	35.0			
11		76.0	33.0			
12		70.0	31.0			
13		61.0	30.0			
14		57.0	29.0			
15	60.0	57.0	13.0			
16	61.0	58.0	10.0			
17	61.0	58.0	9.00			
18	62.0	56.0	8.00			
19	62.0	53.0	8.00			
20	62.0	52.0	8.00			
21	61.0	50.0	7.00			
22	61.0	49.0	7.00			
23	62.0	51.0	7.00			
24	65.0	48.0	6.00			
25	66.0	46.0	6.00			
26	69.0	45.0	5.00			
27	70.0	45.0	5.00			
28	68.0	43.0	5.00			
29	70.0	42.0	5.00			
30	72.0	42.0	4.00			
31	71.0		4.00			
Total Sec. Ft. Days	1103.0**	1899.0	642.00			78 day Period
Mean Sec. Ft.	**64.9	63.3	20.7			46.7
Maximum Sec. Ft.	**72.0	110	44.0			110
Minimum Sec. Ft.	**60.0	42.0	4.00			4.00
Total Ac. Ft.	2190**	3770	1270			7230

* Includes water from Town, Perry and Lemon Creeks.
** 17 day period.

TABLE 44

CONTINUOUS RECORDS OF DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MIDDLE FORK OF FEATHER RIVER NEAR BECKWITH-1936-5

Day	May	Jun.	Jul.	Aug.	Sep.	
1	- NO RECORD	14.8	6.90	2.40	- NO FLOW	
2		27.2	5.60	1.80		
3		21.0	4.00	1.30		
4		28.0	3.10	1.00		
5		33.3	2.70	.80		
6		40.3	2.30	.60		
7		47.8	2.00	.40		
8	54.4	52.0	1.80	.30		
9	54.8	54.8	1.60	.20		
10	53.2	55.7	1.50	.10		
11	49.4	57.8	1.50	- NO FLOW		
12	46.6	58.6	1.40			
13	42.0	70.1	1.40			
14	38.7	74.7	1.30			
15	34.6	72.2	1.20			
16	17.2	67.3	1.10			
17	5.70	61.5	1.00			
18	4.50	55.7	.90			
19	10.6	46.5	.90			
20	16.8	38.3	.90			
21	19.8	27.2	1.00			
22	26.0	19.8	1.20			
23	36.7	29.7	1.50			
24	38.3	25.5	2.10			
25	36.7	48.2	2.30			
26	28.8	28.8	2.40			
27	1.50	19.3	2.90			
28	3.10	19.3	2.90			
29	5.40	14.3	3.00			
30	8.60	9.80	3.40			
31	12.3		3.00			
Total Sec.Ft. Days	*645.7	1219.5	68.80	**8.90		95 day Period
Mean Sec.Ft.	*26.9	40.5	2.22	**.89		20.5
Maximum Sec.Ft.	*54.8	74.7	6.90	**2.40		74.7
Minimum Sec.Ft.	* 1.50	9.80	.90	** .10		.10
Total Ac. Ft.	1280*	2420	136	**17.6		3850

* 24 day period
** 10 day period

TABLE 45

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
F. P. GIUDICI UPPER DITCH FROM LAST
CHANCE CREEK OPPOSITE LOWER DAM - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	1.00	2.50				
2	2.20	2.50				
3	2.20	2.60				
4	2.20	2.50				
5	2.20	2.20				
6	2.20	2.30				
7	2.20	2.60				
8	2.20	2.50				
9	2.20	2.20				
10	2.30	2.60				
11	2.30	2.60	DIVERSION	DIVERSION	DIVERSION	
12	2.30	2.60				
13	2.30	2.50				
14	2.30	2.40				
15	2.30	2.40				
16	2.00	2.20				
17	2.60	2.10	NO	NO	NO	
18	2.50	1.70				
19	2.40	1.40				
20	2.20	1.40				
21	2.20	1.20				
22	2.00	1.10				
23	3.00	1.00				
24	3.00	.70				
25	3.00	.50				
26	2.80	.40				
27	2.80	.30				
28	2.80	.10				
29	2.60	.10				
30	2.60	.05				
31	2.50					
Total Sec. Ft. Days	73.40	51.25				61 day Period
Mean Sec. Ft.	2.37	1.71				2.04
Maximum Sec. Ft.	3.00	2.60				3.00
Minimum Sec. Ft.	1.00	.05				.05
Total Ac. Ft.	146	102				248

TABLE 46

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
F. P. GIUDICI LOWER DITCH FROM
LAST CHANCE CREEK AT HEAD - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	10.8	6.40				
2	10.8	6.40				
3	10.8	4.00				
4	10.8	3.50				
5	10.8	2.50				
6	10.8	2.50				
7	10.8	3.00				
8	7.00	2.50				
9	6.50	2.20				
10	6.70	6.50	DIVERSION	DIVERSION	DIVERSION	
11	6.80	6.00				
12	6.80	5.80				
13	6.80	5.70				
14	6.80	5.60				
15	6.80	5.40				
16	6.50	4.00				
17	8.50	3.80	NO	NO	NO	
18	8.40	2.90				
19	8.20	2.30				
20	8.00	2.20				
21	7.80	2.20				
22	7.00	2.20				
23	7.00	2.10				
24	6.70	1.60				
25	6.50	1.30				
26	6.50	1.20				
27	6.50	1.10				
28	6.50	.10				
29	6.40	.08				
30	6.40	No Div-				
31	6.40	ersion				
Total Sec. Ft. Days	243.10	*95.08				60 day Period
Mean Sec. Ft.	7.84	*3.28				5.64
Maximum Sec. Ft.	10.8	*6.40				10.8
Minimum Sec. Ft.	6.40	* .08				.08
Total Ac. Ft.	482	*188				670

* 29 day period

TABLE 47

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
A. E. GIUDICI EAST DITCH FROM
LAST CHANCE CREEK AT HEAD - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	1.30	4.00				
2	1.30	4.00				
3	1.30	1.00				
4	1.30	.50				
5	1.30	.50				
6	1.30	.50				
7	1.30	.50				
8	1.20	.50				
9	1.20	.50				
10	4.30	.40				
11	4.50	2.00	NO DIVERSION	NO DIVERSION	NO DIVERSION	
12	4.40	2.70				
13	4.40	2.60				
14	4.40	2.00				
15	4.40	1.80				
16	4.30	2.00				
17	4.30	1.90				
18	4.20	1.70				
19	4.20	1.80				
20	4.20	1.50				
21	4.20	1.20				
22	4.00	1.00				
23	4.00	.90				
24	3.80	.60				
25	3.80	.50				
26	3.60	.40				
27	3.70	.40				
28	3.80	NO				
29	3.60	DIVER-				
30	3.60	SION				
31	3.80					
Total Sec.Ft. Days	101.00	*37.40				58 Day Period
Mean Sec.Ft.	3.26	*1.29				2.39
Maximum Sec.Ft.	4.50	*4.00				4.50
Minimum Sec.Ft.	1.20	* .40				.40
Total Ac. Ft.	200	*74.2				274

* 29 day period

TABLE 48

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
A. E. GIUDICI WEST DITCH FROM
LAST CHANCE CREEK AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.00	2.80				
2	2.00	2.80				
3	2.00	1.00				
4	2.00	.80				
5	2.00	.80				
6	2.00	.80				
7	2.00	.50				
8	2.00	.25				
9	2.00	.40				
10	3.00	.40				
11	3.20	1.50	DIVERSION	DIVERSION	DIVERSION	
12	3.20	2.00				
13	3.20	2.00				
14	3.20	2.00				
15	3.20	2.00				
16	3.10	1.30				
17	3.10	1.30	NO	NO	NO	
18	3.10	1.30				
19	3.00	1.00				
20	3.00	1.00				
21	3.00	1.00				
22	2.80	.90				
23	2.80	.70				
24	2.80	.50				
25	2.80	.40				
26	2.80	.30				
27	2.80	.20				
28	2.80	NO				
29	2.80	DIVER-				
30	2.80	SION				
31	2.80					
Total Sec.Ft. Days	83.30	*29.95				58 day Period
Mean Sec.Ft.	2.69	*1.11				4.19
Maximum: Sec.Ft.	3.20	*2.80				3.20
Minimum: Sec.Ft.	2.00	* .20				.20
Total Ac. Ft.	165	*59.4				224

*27 day period

TABLE 49

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF SOBRIO DIVERSIONS FROM LAST CHANCE CREEK AT HEADS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	7.00	3.00				
2	7.50	3.00				
3	7.50	1.00				
4	7.50					
5	7.30	NO				
6	7.00					
7	7.00	DIVER-				
8	6.50	SION				
9	6.20					
10	6.20	2.00				
11	6.50	1.50	DIVERSION	DIVERSION	DIVERSION	
12	6.50	1.00				
13	6.20	1.00				
14	6.20	.90				
15	6.20	.80				
16	6.00	.80				
17	5.20	.80	NO	NO	NO	
18	4.70	.80				
19	4.00	.80				
20	3.80	.80				
21	3.00	.80				
22	1.00	.80				
23	3.50	.70				
24	3.00	.70				
25	3.00	.60				
26	3.00	.50				
27	3.00	.40				
28	3.00	NO				
29	3.00	DIVER-				
30	3.00	SION				
31	3.00					
Total Sec. Ft. Days	156.50	*22.70				58 day Period
Mean Sec. Ft.	5.05	*.84				3.09
Maximum Sec. Ft.	7.50	*3.00				7.50
Minimum Sec. Ft.	1.00	.00				.00
Total Ac. Ft.	310	*45.0				355

* 27 day Period

TABLE 50

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF LAST CHANCE CREEK AT DIVISION - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO DIVERSION	0.80	0.85	0.10		
2		.80	.85	.10		
3		39.9	.80	.10		
4		27.6	.75	.10		
5	50.9	16.2	.70	.10		
6	41.1	21.0	.60	.10		
7	36.8	31.0	.60	.10		
8	34.6	20.5	.20	.10		
9	26.2	15.1	.20	.10		
10	26.1	2.20	.15	.10		
11	30.0	.60	.15	.10	NO DIVERSION	
12	27.9	.70	.15	.10		
13	26.9	.60	.15	.10		
14	26.9	.60	.15	.10		
15	25.9	.40	.10	.10		
16	26.0	.40	.10	.10		
17	20.1	.40	.10	.10		
18	13.5	.40	.10	.10		
19	10.0	.40	.10	.10		
20	9.40	.40	.10	.10		
21	7.90	.40	.10	.10		
22	2.20	.40	.10	.10		
23	3.70	.35	.10	.10		
24	2.10	.35	.10	.10		
25	.50	.35	.10	.10		
26	.50	.35	.10	.10		
27	.50	.30	.10	.10		
28	.50	1.20	.10	.10		
29	.60	1.00	.10	.10		
30	.60	.90	.10	.10		
31	.60		.10	.10		
Total Sec. Ft. Days	*452.00	185.60	8.00	3.10		119 day Period
Mean Sec. Ft.	*16.74	6.19	.26	.10		5.45
Maximum Sec. Ft.	*50.9	39.9	.85	.10		50.9
Minimum Sec. Ft.	* .50	.30	.10	.10		.10
Total Ac. Ft.	896	368	15.9	6.15		1290

*27 day period

TABLE 51

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF GIUDICI DRAIN BELOW M. GIUDICI RANCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO	4.70				
2	RECORD	4.50				
3		6.00				
4	2.00	7.70				
5	3.50	5.00				
6	5.50	3.00				
7	6.00	2.00				
8	6.00	2.00				
9	5.00	2.00				
10	4.00	2.00				
11	3.80	3.00				
12	3.80	3.30				
13	3.80	3.30	FLOW	FLOW	FLOW	
14	3.80	3.50				
15	3.80	3.30				
16	3.80	2.80	NO	NO	NO	
17	3.80	2.20				
18	5.50	1.50				
19	5.30	.80				
20	5.00	.60				
21	4.80	.40				
22	4.40	.30				
23	4.50	.20				
24	4.70	.10				
25	5.00	.10				
26	5.30	.10				
27	5.60	.10				
28	5.90	.10				
29	6.20	.05				
30	5.50	.05				
31	5.00					
Total Sec.Ft. Days	*131.30	64.70				58 Day Period
Mean Sec.Ft.	*4.69	2.16				3.38
Maximum Sec.Ft.	*6.20	7.70				7.70
Minimum Sec.Ft.	*2.00	.05				.05
Total Ac. Ft.	*260	128				388

* 28 day period

TABLE 52

ESTIMATED COMBINED DAILY CONSUMPTION IN CUBIC FEET PER SECOND OF THE F. GIUDICI, A. GIUDICI, M. GIUDICI AND G. SOBRIO RANCHES ON LAST CHANCE CREEK FOR THE DAYS SHOWN - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO	6.60	0.40	0.50		
2		7.20	.40	.50		
3	RECORD		.40	.45		
4		No Consumption	.40	.45		
5	9.00		.40	.40		
6	11.0		.40	.35		
7	9.00		.40	.30		
8	4.20		.90	.25		
9	6.20		1.00	.30		
10	8.30	8.00	1.15	.85		
11	8.50	8.00	1.05	.50		
12	8.60	5.50	1.05	.40		
13	8.60	5.10	1.00	.40		
14	8.60	4.50	.95	.35	RECORD	
15	8.60	4.60	.90	.30		
16	5.80	3.50	.80	.30		
17	8.70	3.80	.75	.40	NO	
18	8.80	3.20	.70	.45		
19	8.70	3.00	.65	.45		
20	8.60	3.10	.65	.50		
21	8.50	3.10	.65	.50		
22	8.40	3.10	.65	.50		
23	8.30	3.05	.70	.50		
24	8.20	2.35	.70	.50		
25	8.00	1.85	.70	.55		
26	6.60	1.65	.65	.55		
27	6.70	1.50	.65	.55		
28	8.10	.40	.60	.55		
29	6.70	.45	.60	.60		
30	7.40	.35	.55	.65		
31	6.90		.55	.60		
Total Sec.Ft. Days	*215.00	**83.90	21.35	14.45		112 day Period
Mean Sec.Ft.	*7.96	**3.65	.69	.47		2.99
Maximum Sec.Ft.	*11.0	**8.00	1.15	.65		11.0
Minimum Sec.Ft.	*5.80	** .35	.40	.25		.25
Total Ac.Ft.	*426	**166	42.3	28.7		663

* 27 day period
** 23 day period

TABLE 53

ESTIMATED COMBINED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF NORTH, MIDDLE AND EAST CHANNELS OF LAST CHANCE CREEK AT STATE HIGHWAY - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	1.80				
2		1.80				
3		24.0				
4		34.5				
5		14.5				
6	43.9	20.0				
7	40.0	30.0				
8	31.0	21.0				
9	20.1	15.0				
10	19.5	5.00				
11	22.0	3.00	NO FLOW	NO FLOW	NO FLOW	
12	22.3	1.90				
13	21.0	1.70				
14	19.0	1.40				
15	17.0	1.20				
16	13.0	.90				
17	10.5	.80				
18	14.4	.60				
19	10.3	.60				
20	9.40	.50				
21	7.70	NO FLOW				
22	4.90					
23	4.50					
24	4.10					
25	3.60					
26	3.00					
27	2.50					
28	2.20					
29	2.10					
30	2.00					
31	1.90					
Total Sec.Ft. Days	*351.90	**180.20				46 Day Period
Mean Sec.Ft.	* 13.53	**9.01				11.57
Maximum Sec.Ft.	* 43.9	**34.5				43.9
Minimum Sec.Ft.	* 1.90	** .50				.50
Total Ac. Ft.	*698	**357				1060

* 26 day Period
** 20 day Period

TABLE 54

ESTIMATED COMBINED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF NORTH AND EAST CHANNELS OF LAST CHANCE CREEK AT LAFFRANCHINI'S - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	0.10				
2		.10				
3		12.0				
4		16.0				
5		10.0				
6	37.2	16.0				
7	30.0	23.0				
8	7.30	17.2				
9	6.60	13.0				
10	6.00	2.00				
11	5.50	1.00				
12	5.00	.50				
13	4.50	.40	NO FLOW	NO FLOW	NO FLOW	
14	3.50	.30				
15	2.50	.20				
16	1.50	.10				
17	1.00	.10				
18	.70	.10				
19	.50					
20	.40					
21	.30	NO FLOW				
22	.20					
23	.10					
24	.10					
25	.10					
26	.10					
27	.10					
28	.10					
29	.10					
30	.10					
31	.10					
Total Sec.Ft. Days	*113.60	**112.10				44 Day Period
Mean Sec.Ft.	*4.37	**6.23				5.13
Maximum Sec.Ft.	*37.2	**23.0				37.2
Minimum Sec.Ft.	* .10	.10				.10
Total Ac. Ft.	*225	**222				447

* 26 Day Period
** 18 Day Period

TABLE 55

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF POWER DITCH ON SMITHNECK CREEK
AT LOWER END OF FLUME - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	NO DIVERSION	0.00			
2			.00			
3			.30			
4			1.50			
5			1.60			
6			1.40			
7			.30			
8						
9	1.50					
10	1.50					
11	1.50	1.20	NO DIVERSION	NO DIVERSION	NO DIVERSION	
12	2.30	1.00				
13	2.80	1.00				
14	3.20	1.00				
15	3.20	1.00				
16	3.10	1.00				
17	3.00	1.20				
18	2.90	1.40				
19	2.80	1.20				
20	2.00	.60				
21	.30	NO DIVERSION				
22	.20					
23	.10					
24	.05					
25	.05					
26	NO DIVERSION					
27						
28						
29						
30						
31						
Total Sec.Ft. Days	*30.50	10.60	** 5.10			60 Day Period
Mean Sec.Ft.	* 1.33	.35	** .73			0.77
Maximum Sec.Ft.	* 3.20	1.40	** 1.60			3.20
Minimum Sec.Ft.	* .00	.00	.00			.00
Total Ac. Ft.	*60.5	21.0	**10.1			91.6

* 23 day period
** 7 day period

TABLE 56

ESTIMATED DAILY CONSUMPTION IN CUBIC FEET PER SECOND
FROM SMITHNECK AND BEAR VALLEY CREEKS
ABOVE LOYALTON FOR THE DAYS SHOWN -1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	1.60	2.35	0.85	1.75	
2		1.60	2.25	.80	2.10	
3		3.20	2.10	.80	2.05	
4		2.60	2.25	1.25	1.85	
5			2.10	1.45	1.70	
6		NO CONSUMPTION	2.10	1.50	1.15	
7			2.10	1.25	1.35	
8			2.00	1.35	.85	
9	7.60		2.45	1.75	.60	
10	7.40		3.30	2.85	1.25	
11	7.10		2.95	3.05	.95	
12	6.90	3.50	2.35	3.20	1.60	
13	5.70	4.10	2.00	2.20	1.45	
14	9.70	4.90	1.40	1.70	1.15	
15	9.90	4.90	1.65	1.60	.70	
16	10.8	4.40	1.65	1.40	.70	
17	9.70	4.20	1.45	1.45	.60	
18	9.20	3.30	1.50	1.25	.70	
19	8.80	3.30	1.50	1.40	.70	
20	9.10	3.40	1.55	1.45	.70	
21	6.70	3.50	1.55	1.50	.60	
22	6.20	3.70	1.45	1.50	.55	
23	5.90	3.70	1.00	1.55	.70	
24	4.65	3.10	1.00	1.40	.70	
25	2.95	2.90	1.00	1.35	.80	
26	3.55	2.70	1.00	1.60	.45	
27	3.40	2.90	.85	1.75	.55	
28	2.75	2.80	.95	1.80	.55	
29	2.90	2.65	.95	1.75	.55	
30	2.65	2.40	.90	1.55	.55	
31	2.20		.85	1.80		
Total Sec.Ft. Days	*145.80	* 75.35	52.50	50.10	29.90	138 day Period
Mean Sec.Ft.	* 6.34	* 3.28	1.69	1.62	1.00	2.56
Maximum Sec.Ft.	* 10.8	* 4.90	3.30	3.20	2.10	10.8
Minimum Sec.Ft.	* 2.20	* 1.60	.85	.80	.45	.45
Total Ac.Ft.	*289	*149	104	99.3	59.3	701

* 23 day period.

TABLE 57

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF BEAR VALLEY CREEK BELOW LOMBARDI RANCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	1.80	1.10	1.30	NO RECORD	
2		1.80	1.00	1.20		
3		2.00	.90	1.20		
4		3.00	.80	1.20		
5		3.00	.60	1.10		
6		2.90	.50	1.10		
7		2.90	.50	1.10		
8		2.80	.40	1.00		
9		2.60	.40	1.00		
10		2.30	1.20	1.00		
11		1.90	1.10	.90		
12	2.70	1.50	1.00	.90		
13	3.00	1.20	1.00	.90		
14	3.30	1.10	1.00	.90		
15	3.50	1.10	1.00	.90		
16	3.50	1.00	1.40	.90		
17	3.40	1.00	1.40	.90		
18	3.40	.90	1.40	.90		
19	3.40	.90	1.40	.90		
20	3.30	.90	1.40	.90		
21	3.20	.90	1.40	.90		
22	3.00	.90	1.40	.90		
23	2.80	.90	1.40	.90		
24	2.60	.90	1.40	.90		
25	2.50	.90	1.40	.90		
26	2.40	1.00	1.40	.90		
27	2.00	1.20	1.40	.90		
28	1.80	1.20	1.40	.90		
29	1.80	1.20	1.30	.90		
30	1.80	1.20	1.30	.90		
31	1.80		1.30	.90		
Total Sec.Ft. Days	*55.20	46.90	34.60	30.10		112 day Period
Mean Sec.Ft.	*2.76	1.56	1.12	.97		1.49
Maximum Sec.Ft.	*3.50	3.00	1.40	1.30		3.50
Minimum Sec.Ft.	*1.80	.90	.40	.90		.40
Total Ac. Ft.	*109	93.0	68.6	59.7		330

* 20 day period

TABLE 58

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF WEST BRANCH OF SMITHNECK CREEK
ABOVE GIUDICI RANCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	3.10	0.20			
2		3.00	.20			
3		4.00	.20			
4	9.00	4.00	.15			
5	8.20	4.00	.15			
6	6.90	6.60	.15			
7	6.00	7.00	.10			
8	4.60	4.50	.10			
9	3.20	3.80	.05			
10	3.00	3.00	.05			
11	2.70	3.00		NO FLOW	NO FLOW	
12	2.40	1.70				
13	2.30	1.50				
14	2.10	1.30				
15	2.00	1.30				
16	1.90	1.00	NO FLOW			
17	1.90	.80				
18	1.80	.70				
19	1.80	.60				
20	1.50	.50				
21	1.50	.40				
22	1.60	.40				
23	1.80	.30				
24	2.00	.30				
25	2.50	.30				
26	2.50	.30				
27	2.50	.20				
28	2.50	.20				
29	2.50	.20				
30	2.50	.20				
31	2.80					
Total Sec. Ft. Days:	*86.00	58.20	**1.35			68 Day Period
Mean Sec. Ft.	*3.07	1.94	**.14			2.14
Maximum Sec. Ft.	*9.00	7.00	**.20			9.00
Minimum Sec. Ft.	*1.50	.20	**.05			.05
Total Ac. Ft.	*171	115	**2.68			289

* 28 day period
** 10 day period

TABLE 59

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MIDDLE BRANCH OF SMITHNECK CREEK ABOVE GIUDICI RANCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	0.00				
2		.00				
3		.00				
4	4.30	.15				
5	4.30	.80				
6	3.60	1.20				
7	3.00	2.10				
8	2.60	1.50				
9	2.40	1.20				
10	2.50	.60				
11	2.40	.60	FLOW -	FLOW -	FLOW -	
12	2.15	.30				
13	1.75	.30				
14	.90	.05				
15	.70	.05				
16	.30	FLOW -	NO FLOW -	NO FLOW -	NO FLOW -	
17	.40					
18	.30					
19	.20					
20	.10					
21	.05	NO FLOW -				
22	.05					
23	.05					
24	.10					
25	.25					
26	.20					
27	.20					
28	.15					
29	.15					
30	.10					
31	.05					
Total Sec. Ft. Days	*33.25	**8.85				43 day Period
Mean Sec. Ft.	*1.19	** .59				0.98
Maximum Sec. Ft.	*4.30	**2.10				4.30
Minimum Sec. Ft.	* .05	** .00				.00
Total Ac. Ft.	*65.9	**17.5				83.4

* 28 day period
** 15 day period

TABLE 60

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF EAST BRANCH OF SMITHNECK CREEK ABOVE GIUDICI RANCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	0.50				
2		.50				
3		.40				
4	8.60	.40				
5	8.30	2.00				
6	8.00	2.00				
7	7.50	3.80				
8	6.70	2.50				
9	6.30	1.50				
10	6.20	1.00				
11	6.00	.80				
12	6.00	.70	-	-	-	
13	6.00	.50	FLOW	FLOW	FLOW	
14	2.70	.15				
15	2.10	.05				
16	.40		NO	NO	NO	
17	.80		-	-	-	
18	.50					
19	.50					
20	.20					
21	.20	-				
22	.20	FLOW				
23	.20					
24	.20					
25	.30					
26	.40	NO				
27	.50	-				
28	.50					
29	.50					
30	.50					
31	.50					
Total Sec.Ft. Days	*80.80	**16.80				43 day Period
Mean Sec.Ft.	*2.89	** 1.12				2.27
Maximum Sec.Ft.	*8.60	** 3.80				8.60
Minimum Sec.Ft.	* .20	** .05				.05
Total Ac. Ft.	*160	**33.3				193

* 28 day period
** 15 day period

TABLE 61

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF LOMBARDI SLOUGH FROM SMITHNECK CREEK
ABOVE LOMBARDI SLOUGH DITCH-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	1.60				
2		1.80				
3		2.00				
4	2.00	2.10				
5	1.80	.80				
6	1.60	.50				
7	1.30	.50				
8	1.00	.40				
9	.50	.40				
10	.20	.30				
11	.20	.20				
12	.15	.10	FLOW	FLOW	FLOW	
13	.15					
14	.10					
15	.10					
16	.10		NO	NO	NO	
17	.10	FLOW				
18	.10					
19	.10					
20	.10					
21	.10	NO				
22	.20					
23	.25					
24	.40					
25	1.00					
26	1.00					
27	1.50					
28	1.60					
29	1.60					
30	1.60					
31	1.60					
Total Sec. Ft. Days	*20.45	**10.70				40 Day Period
Mean Sec. Ft.	* .73	** .89				0.78
Maximum Sec. Ft.	* 2.00	** 2.10				2.10
Minimum Sec. Ft.	* .10	** .10				.10
Total Ac. Ft.	*40.6	**21.2				61.8

* 28 day period
** 12 day period

TABLE 62

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF LOMBARDI SLOUGH DITCH FROM LOMBARDI SLOUGH AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	1.20				
2		1.20				
3		1.30				
4	0.50	1.40				
5	.50	.70				
6	.50	.40				
7	.40	.40				
8	.30	.30				
9	.20	.30				
10		.20				
11	DIVERSION	.10	DIVERSION	DIVERSION	DIVERSION	
12		.05				
13		.05				
14						
15						
16	NO		NO	NO	NO	
17						
18						
19						
20						
21		NO DIVERSION				
22						
23	.10					
24	.30					
25	.90					
26	.90					
27	1.20					
28	1.20					
29	1.20					
30	1.20					
31	1.20					
Total Sec.Ft. Days	*10.60	**7.60				41 day Period
Mean Sec.Ft.	* .38	** .58				0.44
Maximum Sec.Ft.	* 1.20	**1.40				1.40
Minimum Sec.Ft.	* .00	** .05				.00
Total Ac. Ft.	*21.0	**15.1				36.1

* 28 day period
** 13 day period

TABLE 63

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF AMODEI DITCH FROM WEBBER CREEK AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	4.00	4.50	2.80	2.00	3.10	
2	4.00	3.50	2.80	3.00	3.10	
3	4.00	3.50	2.80	3.00	3.10	
4	4.00	3.10	2.80	3.00	3.10	
5	4.00	3.10	2.80	3.00	3.20	
6	3.80	3.60	2.80	3.00	3.20	
7	3.50	3.80	2.80	3.00	3.20	
8	3.50	3.60	2.80	3.00	3.20	
9	3.50	3.40	2.70	3.00	3.20	
10	5.00	3.00	2.50	3.00	3.20	
11	5.00	3.00	2.30	3.00	3.20	
12	5.00	3.00	2.10	3.00	3.20	
13	5.00	3.00	2.00	3.00	3.20	
14	5.00	3.00	2.00	3.00	3.20	
15	5.00	3.00	2.00	3.00	3.20	
16	5.00	3.00	1.90	3.00	3.20	
17	5.00	3.00	1.90	3.00	3.20	
18	5.00	2.80	2.30	3.00	3.20	
19	5.00	4.00	2.30	3.00	3.20	
20	5.30	4.00	2.30	3.00	3.20	
21	5.20	4.00	2.20	3.00	3.20	
22	5.00	3.90	2.20	3.00	3.20	
23	5.00	3.90	2.10	3.00	3.20	
24	5.00	3.80	2.00	3.00	3.30	
25	5.00	3.60	2.00	3.00	3.30	
26	5.00	3.40	2.00	3.00	3.40	
27	5.60	3.40	2.00	3.00	3.40	
28	5.60	3.20	2.00	3.00	3.40	
29	5.60	3.00	2.00	3.00	3.40	
30	5.60	2.80	2.00	3.00	3.40	
31	5.20		2.00	3.00		
Total Sec.Ft. Days	147.60	101.90	71.20	92.00	96.80	153 day period
Mean Sec.Ft.	4.76	3.40	2.30	2.97	3.23	3.33
Maximum Sec.Ft.	5.80	4.50	2.80	3.00	3.40	5.80
Minimum Sec.Ft.	3.50	2.80	1.90	2.00	3.10	1.90
Total Ac. Ft.	293	202	141	182	192	1010

TABLE 64

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF JOHNSON COLD CREEK DITCHES FROM COLD CREEK AT HEADS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	0.70	0.70	0.40	0.20	0.10	
2	.70	.70	.40	.20	.10	
3	.70	.80	.40	.20	.10	
4	.70	.70	.40	.20	.10	
5	.60		.40	.20	.10	
6	.60	NO DIVERSION	.35	.20	.10	
7	.70		.35	.20	.10	
8	.70		.35	.20	.10	
9	.70		.35	.20	.10	
10	.90		.35	.20	.10	
11	.90		.30	.30	.10	
12	1.00		.30	.30	.10	
13	1.00	.40	.30	.30	.10	
14	1.00	.90	.30	.30	.10	
15	1.00	.90		.30	.10	
16	1.00	.80	NO DIVERSION	.30	.10	
17	1.00	.80		.25	.10	
18	1.00	.80		.25	.10	
19	1.00	.75		.25	.10	
20	1.00	.75		.25	.10	
21	1.00	.75		.20	.10	
22	1.00	.70	.20	.20	.10	
23	1.00	.70	.20	.20	.10	
24	1.00	.65	.20	.20	.10	
25	1.00	.60	.20	.20	.10	
26	1.00	.60	.20	.20	.10	
27	1.00	.60	.20	.15	.10	
28	.90	.50	.20	.15	.10	
29	.90	.40	.20	.15	.10	
30	.90	.40	.20	.15	.10	
31	.90		.20	.10		
Total Sec. Ft. Days	27.50	14.90	6.95	6.70	3.00	153 day Period
Mean Sec. Ft.	.89	.50	.22	.22	.10	0.39
Maximum Sec. Ft.	1.00	.90	.40	.30	.10	1.00
Minimum Sec. Ft.	.60	.00	.00	.10	.10	.00
Total Ac. Ft.	54.5	29.5	13.8	13.3	5.95	117

TABLE 65

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MILLER AND DELLERA DITCH FROM WEBBER CREEK AT HEAD - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.50	5.60	4.20	0.20	0.30	
2	2.80	5.60	4.10	.10	.30	
3	3.00	5.60	4.00	.10	.30	
4	3.00	6.00	4.00	.10	.30	
5	2.80	6.00	4.00	.20	.30	
6	2.50	6.00	3.50	.20	.30	
7	2.40	7.00	3.50	.40	.30	
8	2.40	4.50	2.80	.30	.30	
9	3.00	4.50	2.60	.30	.30	
10	5.40	4.50	2.40	.30	.30	
11	5.40	4.50	2.20	.40	.30	
12	5.40	4.50	2.00	.40	.30	
13	5.40	5.50	1.80	.40	.30	
14	5.40	5.80	1.60	.35	.30	
15	3.00	5.80	.25	.35	.30	
16	3.00	5.80	.20	.35	.25	
17	3.00	5.80	.15	.35	.25	
18	3.00	5.70	.15	.35	.25	
19	3.30	5.60	.15	.35	.25	
20	3.20	5.50	.15	.30	.25	
21	5.00	5.40	.15	.30	.25	
22	6.00	5.30	.15	.30	.25	
23	7.00	5.30	.10	.30	.25	
24	6.80	5.00	.50	.30	.25	
25	6.80	4.90	.50	.30	.25	
26	6.80	4.70	.50	.30	.25	
27	6.80	4.70	.40	.25	.25	
28	6.40	4.50	.40	.25	.25	
29	6.20	4.30	.40	.25	.25	
30	6.00	4.20	.30	.20	.25	
31	5.60		.30	.10		
Total Sec.Ft. Days	139.30	158.10	47.45	8.65	8.25	153 day period
Mean Sec.Ft.	4.49	5.27	1.53	.28	.28	2.36
Maximum Sec.Ft.	7.00	7.00	4.20	.40	.30	7.00
Minimum Sec.Ft.	2.40	4.20	.10	.10	.25	.10
Total Ac. Ft.	276	314	94.1	17.2	16.4	718

TABLE 66

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF RANDOLPH DITCH FROM WEBBER CREEK AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	0.50	0.80	1.00	0.70	0.80	
2	.50	.80	1.00	.70	1.00	
3	.50	.80	.90	.70	1.00	
4	.50	.80	.90	.70	1.00	
5	.50	.80	.90	.70	1.00	
6	.50	.80	.80	.70	1.00	
7	.50	.80	.80	.60	1.00	
8	.50	.80	.50	.50	1.00	
9	.50	.70	.40	.40	1.00	
10	.50	.60	.40	.40	1.00	
11	.50	.50	.30	1.30	1.00	
12	.50	.50	1.30	1.30	1.00	
13	.50	1.10	1.30	1.20	1.00	
14	.50	1.60	1.20	1.20	1.00	
15	.50	1.60	.90	1.10	1.00	
16	.50	1.60	.80	1.10	1.00	
17	.50	1.60	.80	1.00	1.00	
18	.50	1.60	.70	1.00	1.00	
19	.50	1.50	.70	1.00	1.00	
20	.50	1.50	.70	.90	1.00	
21	.50	1.40	.70	.90	1.00	
22	.60	1.40	.70	.90	1.00	
23	.60	1.40	.70	.80	1.00	
24	.60	1.40	.70	.80	.70	
25	.60	1.30	.70	.80	.70	
26	.60	1.20	.70	.80	.70	
27	.60	1.20	.70	.70	.70	
28	.70	1.00	.70	.70	.70	
29	.70	1.00	.70	.70	.70	
30	.70	1.00	.70	.70	.70	
31	.60		.70	.10		
Total Sec. Ft. Days	16.80	33.10	24.00	25.10	27.70	153 Day Period
Mean Sec. Ft.	.54	1.10	.77	.81	.90	0.83
Maximum Sec. Ft.	.70	1.60	1.30	1.30	1.00	1.60
Minimum Sec. Ft.	.50	.50	.30	.10	.70	.10
Total Ac. Ft.	33.3	65.6	47.6	49.8	54.9	251

TABLE 67

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF JOHNSON WEBBER CREEK DITCH FROM WEBBER CREEK-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO DIVERSION	2.80	1.50	0.85		
2		2.80	1.50	1.00		
3		2.90	1.50	.95		
4			1.50	3.00		
5				3.20		
6		NO DIVERSION		3.00		
7				3.00		
8	1.00			3.00		
9	2.00			3.00		
10	2.20			3.00		
11	2.30		NO DIVERSION	3.20	NO DIVERSION	
12	2.40			3.20		
13	2.50			3.00		
14	2.50	3.00		3.00		
15	2.50	3.00		2.90		
16	2.50	3.00		2.90		
17	2.50	3.00		2.90		
18	2.50	3.00		2.90		
19	2.40	2.90		2.90		
20	2.30	2.90		2.80		
21	2.20	2.70		2.80		
22	2.10	2.60		2.80		
23	2.00	2.60				
24	2.50	2.50				
25	2.60	2.40	.85			
26	2.60	2.20	.85	NO DIVERSION		
27	2.50	2.20	.85			
28	2.60	2.00	.85			
29	2.70	1.70	.85			
30	2.80	1.50	.85			
31	2.80		.85			
Total Sec.Ft. Days	* 57.00	51.70	11.95	**59.30		107 day period
Mean Sec.Ft.	*2.38	1.72	.39	** 2.70		1.68
Maximum Sec.Ft.	*2.80	3.00	1.50	** 3.20		3.00
Minimum Sec.Ft.	*1.00	.00	.00	.85		.00
Total Ac.Ft.	*113	103	23.7	**118		358

* 24 day period
** 22 day period

TABLE 68

ESTIMATED COMBINED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF JOHNSON AND OF MORGAN, JOHNSON AND ADAMS DITCHES FROM TOWN CREEK AT HEADS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	3.50	2.50	0.40	0.30	
2		3.50	2.50	.40	.30	
3		3.50	2.50	.40	.30	
4		3.50	2.50	.40	.30	
5		3.50	2.50	.50	.40	
6		4.00	2.50	.60	.40	
7		4.00	2.50	.60	.40	
8		2.00	2.50	.60	.40	
9		2.00	2.30	.60	.40	
10	2.50	2.00	2.30	.60	.40	
11	2.50	2.00	2.00	.60	.40	
12	2.50	2.00	2.00	.60	.60	
13	2.50	3.50	1.80	.60	.60	
14	2.50	3.50	1.00	.60	.60	
15	2.50	3.50	.20	.60	.60	
16	2.50	3.50	.20	.60	.60	
17	2.50	3.30	.40	.60	.60	
18	2.50	3.30	.40	.60	.60	
19	2.50	3.30	.40	.60	.60	
20	2.50	3.30	.40	.60	.60	
21	2.50	3.00	.40	.60	.60	
22	2.50	3.00	.40	.60	.60	
23	2.50	2.80	.40	.60	.60	
24	2.50	2.80	.40	.60	.60	
25	4.00	2.80	.40	.60	.60	
26	4.00	2.50	.40	.60	.60	
27	4.00	2.50	.40	.60	.60	
28	4.00	2.50	.40	.60	.60	
29	4.00	2.50	.40	.60	.60	
30	4.00	2.50	.40	.60	.60	
31	4.00		.40	.40		
Total Sec. Ft. Days	*65.50	89.60	37.80	17.50	15.40	144 day period
Mean Sec. Ft.	*2.98	2.99	1.22	.56	.51	1.57
Maximum Sec. Ft.	*4.00	4.00	2.50	.60	.60	4.00
Minimum Sec. Ft.	*2.50	2.00	.20	.40	.30	.20
Total Ac. Ft.	*130	178	75.0	34.7	30.5	448

* 22 day period

TABLE 69

ESTIMATED COMBINED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF BONY EAST AND BONY WEST UPPER DAM DITCHES FROM TOWN CREEK AT HEADS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	DIVERSION	5.00	6.50			
2		5.00	6.50			
3		5.00	6.50			
4		5.00	6.50			
5		5.00	6.00			
6	- NO	6.00	6.00			
7		6.00	6.00			
8		6.00	6.00			
9		5.50	5.50			
10		5.00	5.50	-	-	
11		5.00	5.50	DIVERSION	DIVERSION	
12	6.00	5.00	5.00			
13	6.50	5.00	4.00			
14	6.50	5.00	3.00			
15	6.50	5.50	1.00			
16	6.80	5.50				
17	6.80	5.50		- NO	- NO	
18	6.80	5.50				
19	6.80	5.50				
20	6.80	5.00	-			
21	6.80	4.50	-NO DIVERSION			
22	6.80	3.50				
23	6.80	3.50				
24	6.80	3.50				
25	6.80	3.50				
26	6.80	3.50				
27	6.80	6.00				
28	6.50	6.50				
29	6.30	6.50				
30	6.30	6.50				
31	6.30					
Total Sec. Ft. Days	*132.50	153.50	**79.50			65 day period
Mean Sec. Ft.	*6.62	5.12	**5.30			5.62
Maximum Sec. Ft.	*6.80	6.50	**6.50			6.50
Minimum Sec. Ft.	*6.00	3.50	**1.00			1.00
Total Ac. Ft.	*263	304	**158			725

* 20 day period
** 15 day period

TABLE 70

ESTIMATED COMBINED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF WEBBER AND DILTZ AND JOHNSON DITCHES FROM PERRY CREEK AT HEADS-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO DIVERSION	NO DIVERSION	0.40	0.40	0.20	
2			.40	.40	.20	
3			.40	1.40	.20	
4			.40	1.40	.20	
5			.40	1.40	.20	
6			.40	1.40	.20	
7			.40	1.40	.20	
8			.40	1.40	.20	
9			.40	1.40	.20	
10			.40	.40	.20	
11	1.00		.40	.40	.20	
12	1.00		.40	.40	.20	
13			.40	.40	.20	
14			.40	.40	.20	
15		1.00	.40	.40	.20	
16	NO DIVERSION	1.00	.40	.40	.20	
17		1.00	.40	.40	.20	
18		NO DIVERSION	.40	.40	.20	
19			.40	.40	.20	
20			.40	.40	.20	
21	1.90		.40	.40	.20	
22	1.90		.40	.40	.20	
23	1.90	2.50	.40	.40	.20	
24	1.90	2.50	.40	.40	.30	
25	1.90	2.50	.40	.40	.30	
26	2.50	2.50	.40	.40	.40	
27	1.00	2.50	.40	.40	.40	
28	.80	2.50	.40	.40	.40	
29	.80	.40	.40	.40	.40	
30	.80	.40	.40	.40	.40	
31	.80	.40	.40	.40		
Total Sec. Ft. Days	*18.20	19.20	12.40	19.40	7.20	144 day period
Mean Sec. Ft.	* .87	.62	.40	.63	.24	0.53
Maximum Sec. Ft.	* 2.50	2.50	.40	1.40	.40	2.50
Minimum Sec. Ft.	* .00	.00	.40	.40	.20	.00
Total Ac. Ft.	*36.1	38.1	24.6	38.5	14.3	152

* 21 day period

TABLE 71

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF MILLER UPPER DITCH FROM FERRY CREEK AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	1.30	1.30	1.50	0.05	0.15	
2	1.40	1.30	1.50	.05	.15	
3	1.40	.50	1.40	.05	.15	
4	1.40	.25	1.40	.05	.20	
5	1.30	.25	1.30	.10	.30	
6	1.30	.50	1.20	.10	.30	
7	1.30	.60	1.10	.10	.30	
8	1.30	.50	1.10	.25	.30	
9	1.30	.50	.10	.25	.30	
10	1.50	.40	.10	.25	.30	
11	1.70	.40	.10	.25	.30	
12	1.90	.40	.10	.25	.30	
13	1.90	.40	.25	.25	.30	
14	1.90	.40	.20	.25	.30	
15	1.90	.40	.10	.25	.30	
16	1.90	2.50	.10	.25	.30	
17	2.50	2.50	.10	.25	.30	
18	3.20	2.50	.10	.25	.30	
19	3.20	2.50	.10	.25	.30	
20	3.20	2.50	.10	.25	.30	
21	3.20	2.50	.10	.25	.30	
22	3.10	2.50	.10	.25	.30	
23	3.00	2.50	.10	.25	.30	
24	3.00	2.40	.10	.25	.40	
25	3.00	2.30	.05	.25	.40	
26	3.00	2.20	.05	.25	.50	
27	1.30	2.10	.05	.25	.50	
28	1.30	2.00	.05	.25	.50	
29	1.30	1.80	.05	.25	.50	
30	1.30	1.60	.05	.25	.50	
31	1.30		.05	.25		
Total Sec.Ft. Days	61.60	42.50	12.70	6.50	9.65	153 day period
Mean Sec.Ft.	1.99	1.42	.41	.21	.32	0.87
Maximum Sec.Ft.	3.20	2.50	1.50	.25	.50	3.20
Minimum Sec.Ft.	1.30	.25	.05	.05	.15	.05
Total Ac. Ft.	122	84.3	25.2	12.9	19.1	264

TABLE 72

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
MILLER EAST AND WEST SCHOOLHOUSE DITCHES
FROM PERRY CREEK AT HEADS - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO DIVERSION	4.40	2.40			
2		4.40	2.40			
3		4.40	2.40			
4		4.40	2.40			
5		4.40	2.40			
6		4.40	2.20			
7		4.40	2.20			
8		4.40	2.10			
9	2.00	4.40	2.10	NO DIVERSION	NO DIVERSION	
10	3.50	4.40	2.10			
11	3.50	4.40	2.00			
12	3.50	4.40	2.00			
13	3.50	4.40	2.00			
14	3.50	4.40	2.00			
15	3.50	4.40	1.00			
16	3.50	5.80	1.00			
17	3.50	5.80				
18	3.50	5.80				
19	3.00	5.80				
20	3.00	5.50				
21	2.90	4.00	NO DIVERSION			
22	2.90	4.00				
23	2.90	4.00				
24	2.80	3.00				
25	2.80	2.80				
26	2.80	2.70				
27	.40	2.70				
28	.40	2.60				
29	4.40	2.60				
30	4.40	2.60				
31	4.40					
Total Sec.Ft. Days	*70.60	125.70	**32.70			69 day period
Mean Sec.Ft.	*3.07	4.19	** 2.04			3.32
Maximum Sec.Ft.	*4.40	5.80	** 2.40			5.80
Minimum Sec.Ft.	* .40	2.60	** 1.00			.40
Total Ac. Ft.	*140	249	**64.8			454

* 23 day period
** 16 day period

TABLE 73

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF ADAMS DITCH FROM PERRY CREEK AT HEAD - 1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	4.00	5.00	4.50	3.00	2.60	
2	4.00	5.00	4.50	3.00	2.60	
3	4.00	5.00	4.50	3.00	2.60	
4	4.00	5.00	4.50	3.00	2.60	
5	4.00	5.00	4.40	3.00	2.60	
6	4.00	5.00	4.40	3.40	2.60	
7	4.00	5.00	4.30	3.40	2.60	
8	4.00	5.00	4.30	3.40	2.60	
9	4.00	5.00	4.20	3.30	2.60	
10	4.00	5.00	4.20	3.30	2.60	
11	4.50	4.50	4.10	3.30	2.60	
12	4.50	4.50	4.10	3.20	2.60	
13	4.50	4.50	4.10	3.20	2.60	
14	4.50	4.50	3.00	3.20	2.60	
15	4.50	4.50	.50	3.10	2.60	
16	4.50	4.50	1.00	3.10	2.60	
17	4.50	4.50	4.00	3.10	2.60	
18	4.50	4.50	4.00	3.10	2.60	
19	4.50	4.50	4.00	3.10	2.60	
20	4.50	4.50	4.00	3.10	2.60	
21	4.50	4.50	3.80	3.00	2.60	
22	4.50	4.50	3.80	3.00	2.60	
23	4.50	4.50	3.50	3.00	2.60	
24	4.50	4.50	3.50	3.00	2.60	
25	4.50	4.50	3.00	3.00	2.60	
26	5.00	4.50	3.00	3.00	2.70	
27	5.00	4.50	3.00	3.00	2.70	
28	5.00	4.50	3.00	3.00	2.70	
29	5.00	4.50	3.00	3.00	2.70	
30	5.00	4.50	3.00	3.00	2.70	
31	5.00		3.00	3.00		
Total Sec.Ft. Days	137.50	140.00	112.20	96.30	78.50	153 day period
Mean Sec.Ft.	4.44	4.67	3.62	3.11	2.62	3.69
Maximum Sec.Ft.	5.00	5.00	4.50	3.40	2.70	5.00
Minimum Sec.Ft.	4.00	4.50	.50	3.00	2.60	.50
Total Ac. Ft.	273	278	222	191	156	1120

TABLE 74

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
H. DOTTA UPPER SOUTH DITCH FROM HAMLIN CREEK AT HEAD -1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1		1.10	1.00			
2		1.10	1.00			
3		.50	1.00			
4			1.00			
5			1.00			
6			1.00			
7			1.00			
8			1.00			
9			1.00			
10	DIVERSION		1.00			
11			1.00			
12			1.00			
13	NO		1.00			
14		DIVERSION	1.00	DIVERSION	DIVERSION	
15			1.00			
16			1.00			
17		NO	1.00	NO	NO	
18			1.00			
19			1.00			
20						
21		.50				
22		.80				
23		1.00				
24	1.50	1.00	DIVERSION			
25	1.50	1.00				
26	1.50	1.00				
27	1.50	1.00				
28	1.40	1.00	NO			
29	1.30	1.00				
30	1.20	1.00				
31	1.20					
Total Sec.Ft. Days	*11.10	12.00	**19.00			57 day period
Mean Sec.Ft.	* 1.39	.40	** 1.00			0.74
Maximum Sec.Ft.	* 1.50	1.10	** 1.00			1.50
Minimum Sec.Ft.	* 1.20	.00	** 1.00			.00
Total Ac. Ft.	* 22.0	23.8	**37.7			83.5

* 8 day period
**19 day period

TABLE 75

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
H. DOTTA LOWER SOUTH DITCH FROM HAMLIN CREEK AT HEAD-1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1		2.10	3.80	3.30	2.80	2.60	
2		2.10	3.80	3.20	2.50	2.40	
3		2.10	4.00	3.20	2.50	2.40	
4		.50	4.20	3.20	1.50	2.50	
5		.50	4.20	3.20	.80	2.50	
6	NO RECORD	.50	.50	3.20	.80	2.40	
7		.50	.50	3.10	.80	2.40	
8		.50	.50	3.10	.80	2.40	
9		.50	.50	3.10	.80	2.40	
10		.50	.50	3.10	.80	2.40	
11		.50	.50	3.10	.80	2.70	
12		.50	.50	3.10	.80	2.60	
13		.50	.50	3.10	.80	2.50	
14		2.20	.50	3.10	1.30	2.50	
15		4.20	.50	3.10	2.00	2.50	
16		4.20	.50	3.10	2.00	2.40	
17		4.20	.50	3.10	2.00	2.40	
18		4.20	.50	3.10	2.00	2.40	
19		4.20	3.00	3.20	2.00	2.40	
20		4.20	3.50	3.50	2.00	2.40	
21		4.20	3.50	3.40	2.00	2.40	
22		4.20	3.50	3.40	2.00	2.40	
23	.50	4.20	3.50	3.30	2.00	2.40	
24	.50	4.20	3.50	3.30	2.30	2.40	
25	2.00	4.20	3.50	3.20	2.30	2.40	
26	2.00	4.20	3.40	3.20	2.30	2.40	
27	2.00	4.20	3.40	3.00	2.30	2.40	
28	2.00	4.20	3.40	3.00	2.30	2.40	
29	2.00	4.00	3.30	3.00	2.30	2.40	
30	2.00	4.00	3.30	2.80	2.30	2.40	
31		4.00		2.80	2.60		
Total Sec. Ft. Days	*13.00	84.30	67.30	97.60	54.50	73.20	161 day period
Mean Sec. Ft.	* 1.62	2.72	2.24	3.15	1.76	2.44	2.42
Maximum Sec. Ft.	* 2.00	4.20	4.20	3.50	2.80	2.70	4.20
Minimum Sec. Ft.	* .50	.50	.50	2.80	.80	2.40	.50
Total Ac. Ft.	*25.8	167	133	194	108	145	773

* 8 day period

TABLE 76

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
H. DOTTA OLD POWER DITCH FROM WEST HAMLIN CREEK AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1			1.15		0.60	
2			1.10		.60	
3			1.10		.60	
4			1.10		.60	
5			1.05		.60	
6			1.05		.60	
7						
8						
9	NO DIVERSION		NO DIVERSION			
10		NO DIVERSION		NO DIVERSION		
11						
12						
13						
14			.65			
15			.60		NO DIVERSION	
16			.60			
17			.55			
18			.55			
19			.50			
20	2.00		.50			
21	1.90					
22	1.80					
23	1.80		NO DIVERSION			
24	1.70					
25						
26						
27						
28	NO DIVERSION			.60		
29				.60		
30				.60		
31				.60		
Total Sec. Ft. Days	*9.20	0.00	10.50	2.40	**3.60	110 day period
Mean Sec. Ft.	* .77	.00	.34	.08	** .60	0.23
Maximum Sec. Ft.	*2.00	.00	1.15	.60	** .60	2.00
Minimum Sec. Ft.	* .00	.00	.00	.00	** .60	.00
Total Ac. Ft.	*18.2	.00	20.8	4.76	**7.14	51.0

* 12 day period
** 6 day period

TABLE 77

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF STRANG DITCH FROM MILLER CREEK ABOVE HEAD OF PIPE LINE - 1936

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	
1	NO RECORD	.30	3.10	2.80	1.40	1.00	
2		.30	3.10	2.70	1.40	1.00	
3		.30	3.10	2.60	1.40	1.20	
4		.30	3.10	2.60	1.40	1.30	
5		1.80	3.10	2.50	1.40	1.20	
6		3.00	3.40	2.50	1.40	1.10	
7		3.00	3.50	2.50	1.40	1.00	
8		3.10	3.40	2.50	1.30	1.00	
9		3.10	3.30	2.50	1.30	1.00	
10		3.20	3.30	2.50	1.30	1.00	
11		3.20	3.30	2.40	1.30	1.00	
12		3.30	3.30	2.30	1.30	1.00	
13		3.40	3.30	2.20	1.30	1.00	
14		3.40	3.30	2.20	1.30	1.00	
15		3.40	3.20	2.10	1.30	1.00	
16		3.30	3.20	2.10	1.20	1.00	
17		3.20	3.20	2.00	1.20	1.00	
18		3.20	3.20	1.90	1.20	1.00	
19		3.20	3.10	1.90	1.20	1.00	
20		3.10	3.10	1.90	1.20	1.00	
21		3.10	3.10	1.80	1.20	1.00	
22	0.30	3.20	3.10	1.80	1.20	1.00	
23	.30	3.20	3.10	1.70	1.20	1.00	
24	.30	3.30	3.10	1.70	1.20	1.00	
25	.30	3.40	3.10	1.70	1.20	1.00	
26	.30	3.40	3.00	1.60	1.10	1.00	
27	.30	3.40	3.00	1.60	1.10	1.00	
28	.30	3.40	3.00	1.60	1.00	1.00	
29	.30	3.20	2.90	1.50	1.00	1.00	
30	.30	3.20	2.90	1.50	1.00	1.10	
31		3.10		1.50	1.00		
Total Sec.Ft. Days	*2.70	87.00	94.90	64.70	38.40	30.90	162 day period
Mean Sec.Ft.	* .30	2.81	3.16	2.09	1.24	1.03	1.96
Maximum Sec.Ft.	* .30	3.40	3.50	2.80	1.40	1.30	3.50
Minimum Sec.Ft.	* .30	.30	3.10	1.50	1.00	1.00	.30
Total Ac.Ft.	*5.35	173	188	128	76.1	61.3	632

* 9 day period

TABLE 78

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF FREEMAN DITCH FROM TURNER CREEK AT HIGHWAY CROSSING-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	1.30	1.60	1.10	0.80	0.60	
2	1.30	1.60	1.10	.80	.30	
3	1.30	1.60	1.10	.80	NO DIVERSION	
4	1.30	1.60	1.00	.80		
5	1.30	1.60	1.00	.80		
6	1.30	1.80	1.00	.70		
7	1.30	1.80	.90	.70		
8	1.30	1.70	.90	.70		
9	1.40	1.70	.90	.70	.30	
10	1.50	1.60	.90	.70	.60	
11	1.60	1.60	.90	.70	.60	
12	1.70	1.60	.90	.70	.60	
13	1.80	1.60	* .90	.70	.60	
14	1.80	1.50	* .90	.70	.60	
15	1.80	1.50	* .90	.70	.60	
16	1.80	1.50	* .90	.70	.60	
17	1.80	1.50	* .90	.60	.60	
18	1.80	1.50	* .90	.60	.60	
19	1.80	1.50	* .90	.60	.60	
20	1.80	1.50	* .90	.60	.60	
21	1.80	1.40	* .90	.60	.60	
22	1.80	1.40	* .90	.60	.60	
23	1.80	1.40	* .90	.60	.60	
24	1.80	1.40	* .90	.60	.60	
25	1.80	1.30	.90	.50	.60	
26	1.80	1.30	.90	.50	.60	
27	1.80	1.30	* .90	.50	.60	
28	1.80	1.20	* .90	.50	.60	
29	1.70	1.20	* .90	.50	.60	
30	1.70	1.20	* .90	.50	.60	
31	1.70		* .90	.50		
Total Sec.Ft. Days	50.50	45.00	28.80	20.00	13.80	153 day period
Mean Sec.Ft.	1.63	1.50	.93	.65	.46	1.03
Maximum Sec.Ft.	1.80	1.80	1.10	.80	.60	1.80
Minimum Sec.Ft.	1.30	1.20	.90	.50	.00	.00
Total Ac. Ft.	100	89.2	57.1	39.7	27.4	313

* Water returned to creek below recorder

TABLE 79

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF CHURCH DITCH FROM TURNER CREEK AT HIGHWAY CROSSING-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	NO DIVERSION	1.80	.40			
2		1.80	.40			
3		1.80	.40			
4		1.80	.40			
5		1.80	.40			
6		1.00	.40			
7		.20	.40			
8	.50	.20	.40			
9	.50	.20	.40			
10	.50	.20	.80			
11	.50	.20	.80	NO DIVERSION	NO DIVERSION	
12	.50	.20				
13	.50	.20				
14	.50	.20				
15	.50	.20				
16	.50	.20	NO DIVERSION			
17	.50	.50				
18	.50	1.00				
19	1.70	1.20				
20	1.70	1.20				
21	1.70	1.20				
22	1.70	1.50				
23	1.70	1.50				
24	1.20	1.00				
25	.30	.60				
26	1.20	.60				
27	1.70	.60				
28	1.70	.60				
29	1.80	.60				
30	1.80	.50				
31	1.80					
Total Sec. Ft. Days	*25.50	24.60	**5.20			65 day period
Mean Sec. Ft.	* 1.06	.82	** .47			0.85
Maximum Sec. Ft.	* 1.80	1.80	** .80			1.80
Minimum Sec. Ft.	* .50	.20	** .40			.20
Total Ac. Ft.	*50.6	48.8	**10.3			110

* 24 day period
** 11 day period

TABLE 80

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF FLETCHER CREEK AT COUNTY ROAD BELOW DIVINE RANCH
1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	3.00	0.40				
2	2.80	.30				
3	2.50	.30				
4	2.30	.20				
5	2.10	.10				
6	1.90	1.60				
7	1.80	3.00				
8	1.70	1.80				
9	1.70	1.60				
10	1.70	1.40				
11	1.60	1.20				
12	1.60	1.00				
13	1.60	.80	FLOW	FLOW	FLOW	
14	1.50	.50				
15	1.50	.30				
16	1.40	.20	NO	NO	NO	
17	1.40	.10				
18	1.40	.10				
19	1.30	.10				
20	1.30	.05				
21	1.20					
22	1.10					
23	1.00	FLOW				
24	.90					
25	.80					
26	.70					
27	.60	NO				
28	.60					
29	.50					
30	.50					
31	.40					
Total Sec.Ft. Days	44.40	*15.05				50 day period
Mean Sec.Ft.	1.43	* .75				1.19
Maximum Sec.Ft.	3.00	* 3.00				3.00
Minimum Sec.Ft.	.40	* .05				.05
Total Ac. Ft.	88.0	*29.8				118

* 20 day period

TABLE 81

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF FLETCHER CREEK DRAIN AT BECKWITH ROAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1	2.10	0.40				
2	2.00	.40				
3	2.00	.30				
4	1.90	.30				
5	1.90	.30				
6	1.80	2.00				
7	1.80	3.00				
8	1.80	2.00				
9	1.70	1.50				
10	1.70	1.20				
11	1.60	1.00	NO FLOW	NO FLOW	NO FLOW	
12	1.60	.80				
13	1.50	.60				
14	1.40	.40				
15	1.30	.30				
16	1.20	.30				
17	1.10	.20				
18	1.00	.20				
19	.90	.10				
20	.90	.10				
21	.80	NO FLOW				
22	.80					
23	.70					
24	.70					
25	.60					
26	.60					
27	.50					
28	.50					
29	.50					
30	.50					
31	.40					
Total Sec. Ft. Days	37.80	*15.40				50 day period
Mean Sec. Ft.	1.22	* .77				1.06
Maximum Sec. Ft.	2.10	* 3.00				3.00
Minimum Sec. Ft.	.40	* .10				.10
Total Ac. Ft.	75.0	*30.5				105

* 20 day period

TABLE 82

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF EAST SIDE DITCH FROM MIDDLE FORK
OF FEATHER RIVER AT HEAD-1936

Day	May	Jun.	Jul.	Aug.	Sep.	
1		14.0	11.5			
2		14.0	11.5			
3		14.0	11.0			
4		14.5	11.0			
5		14.5	11.0			
6		18.0				
7		20.0				
8		20.0				
9		18.0				
10		16.0				
11		15.0				
12	RECORD	14.0	DIVERSION	RECORD	RECORD	
13		14.0				
14		14.0				
15		14.0				
16		14.0				
17	NO	14.0	NO	NO	NO	
18		13.5				
19		12.8				
20		12.4				
21		12.0				
22		11.6				
23		11.3				
24		11.3				
25		11.2				
26		11.0				
27		12.0	4.50			
28		12.0	4.50			
29		12.0	4.20			
30		11.9	4.00			
31			3.90			
Total Sec.Ft. Days		417.0	77.10			61 day period
Mean Sec.Ft.		13.9	2.49			8.10
Maximum Sec.Ft.		20.0	11.5			20.0
Minimum Sec.Ft.		11.0	.00			.00
Total Ac. Ft.		827	153			980

TABLE 83

ESTIMATED CROP YIELDS ON TYPICAL LANDS IRRIGATED FROM MIDDLE FORK OF FEATHER RIVER AND ITS TRIBUTARIES - 1936

Owner	Crop	Acres	Total Yield		Yield per Ac.	
			Bu.	Tons	Bu.	Tons
Fred A. Alpers	Meadow Hay	140		300		2.1
	Pasture	288	(90	Horse Months		
			(2400	Cow months		
A. B. Church and Isaac S. Church	Alfalfa	5		8		1.6
	Grain Hay	40		30		.7
	Meadow Hay	240		230		1.0
	Pasture	68	140	Cow months		
Clover Valley Lumber Company	Meadow Hay	120		90		.8
Maxim Dory	Meadow Hay	83		130		1.6
Albert C. and Ceasar Dotta	Meadow Hay	1000		1000		1.0
	Pasture	145	(2800	Cow months		
			(126	Horse months		
Antone E. Dotta	Meadow Hay	120		100		.8
Edna F. Dotta	Meadow Hay	180		150		.8
Frank V. Dotta	Meadow Hay	300		250		.8
Leon Dotta	Meadow Hay	80		60		.8
Philip E. Ede	Grain Hay	40		65		1.6
	Meadow Hay	300		350		1.2
Julius Filippini	Alfalfa Hay	70		75		1.1
	Meadow Hay	250		250		1.0
	Pasture	200		1700	Cow Months	
Perpetua Gonasci	Meadow Hay	620		480		.8
	Pasture	90	130	Cow months		
Perpetua Gonasci and Raffaele Dotta	Meadow Hay	143		100		.7
Alice Francis and Stephen Giudici	Meadow Hay		145	160		1.1
B.E. & R.E Giudici	Meadow Hay	300		225		.7
	Pasture	68		Fair		
Edmond J. Goble	Meadow Hay	270		300		1.1
R.L. Henderson	Meadow Hay	110		200		1.8

TABLE 83 (Continued)

Owner	Crop	Acres	Total Bu.	Yield Tons	Yield Bu.	per ac. Tons
F. E. Humphrey, Jr.	Meadow Hay	1900		2000		1.1
	Pasture	1400	(1650 cow months			
			(225 horse months			
M. B. Humphrey (Home Ranch)	Meadow Hay	450		600		1.3
M. B. Humphrey (Mickey Ranch)	Meadow Hay	724		800		1.1
	Pasture	600		(Good)		
Jennie F. Huntley	Meadow Hay	700		300		.4
Dell L. Johnson	Alfalfa	35		230		6.6
	Meadow Hay	150		450		3.0
	Oat Hay	16		40		2.5
	Truck	1	Fair			
	Pasture	19	Good			
Mary C. Laffranchini	Meadow Hay	120		120		1.0
	Pasture	80	210 cow months			
			30 horse months			
Louis S. Lombardi	Alfalfa	15		15		1.0
	Meadow Hay	15		15		1.0
Delia Martinetti	Meadow Hay	270		400		1.5
	Pasture	217	760 cow months			
			50 horse months			
Anna B. Miller	Alfalfa	40		60		1.5
	Meadow Hay	740		1480		2.0
	Pasture	350		good		
Anna B. Miller	Meadow Hay	340		600		1.8
Adelina Ramelli	Meadow Hay	200		200		1.0
Allesio Ramelli	Meadow Hay	320		320		1.0
	Pasture	140	1200 cow months			
Louisa Scolari	Meadow Hay	80		75		9
Annetta Solari	Meadow Hay	320		320		1.0
Giulio Torri et al	Meadow Hay	240		300		1.3
	Pasture	82	200 cow months			

TABLE 84

GROSS USE OF WATER FOR ACREAGE IRRIGATED FROM MIDDLE FORK OF FEATHER RIVER AND ITS TRIBUTARIES -1936

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1936	Total Acre Feet Diverted	Acreage Irrigated 1936	Gross Use for Period Ac.Ft. per Acre	Gross Use for Period Acres per c.f.s.
		LAST CHANCE CREEK					
21	F.P.Giudici (upper)	F.P. Giudici					
22	F.P.Giudici (lower)	M. Giudici	5/1 to 6/30	1192	462.8	2.58	47
23	A.E.Giudici (Dams)	Alex E. Giudici	5/1 to 6/30	804*	462.8	1.74*	70*
23	A.E.Giudici (Dams)	Alex E. Giudici	5/1 to 6/30	579	293.3	1.98	61
24	G. Sobrio (upper)	Guy Sobrio					
25	Sobrio (lower)	G. Trosi					
26 to 32 and 56 to 58	Between Channel Division and New Highway	G. Trosi F.V. Dotta Adelina Ramelli Philip E. Ede M.B.Humphrey	5/6 to 6/10	938 441*	949.5 949.5	1.55 .41*	72 154*
33 to 38 and 59 to 63	Between New Highway and Laffranchini Road	Adelina Ramelli Alesso Ramelli E.J.Goble Philip E.Ede Annetta Solari	5/6 to 6/10	1030 588*	1312.3 1312.3	.78 .45*	91 160*
		SMITHNECK CREEK					
77 to 89	Smithneck and Bear Valley Creeks above Log Pond at Loyalton	C.D.Terwilliger Mary C.Laffranchini Lewis Bros. Co. First Natl. Bank of Reno Plumas Logging & Transportation Co. Clover Valley Lbr. Co.	5/9 to 6/4 6/12 to 6/30	438*	584.1	0.75*	121*

Sheet 1

TABLE 84 (Con't)

GROSS USE OF WATER FOR ACREAGE IRRIGATED FROM MIDDLE FORK OF FEATHER RIVER AND ITS TRIBUTARIES 1936

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1936	Total Acre Feet Diverted	Acreage Irrigated 1936	Gross Use for Period Ac.Ft. per Acre	Gross Use for Period Acres per c.f.s.
111	Genasci (upper Field)	Attilio R. and Louis Genasci and Perpetua Genasci	5/4 to 6/11	262	311.1	.84	92
112	Genasci (lower Field)						
		LEMON CREEK					
123	Blinman Spring Channel						
124	Lemon East	Anna B. Miller	5/6 to 5/22	122	246.1	0.49	68
125	Lemon West						
126	Lemon Lower						
	WEBBER CREEK, COLD CREEK, TOWN CREEK AND PERRY CREEK						
129	Miller & Dellera	Anna B. Miller Kelso N. Dellera Fred A. Alpers	5/1 to 7/5	630	260	2.42	54
131	Johnson Webber Creek	Dell L. Johnson	5/8 to 7/4	656	273	2.40	48
132	Johnson Town Creek	James W. Morgan					
133	Morgan Johnson & Adams	H.G. Adams C.D. Johnson					
136	Bony Upper	F.G. Bony F.A. Alpers	5/12 to 7/14	723	284	2.55	50
146	Miller Upper	Anna B. Miller	5/9 to 7/6	619	269.8	2.30	51
147	Miller Schoolhouse						
148	Adams	H.G. Adams F.E. Humphrey, Jr.	5/1 to 7/13	663	250	2.65	55

TABLE 84 (COn't)

GROSS USE OF WATER FOR STORAGE IRRIGATED FROM MIDDLE FORK OF FEATHER RIVER AND ITS TRIBUTARIES 1936

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1936	Total Acre Feet Diverted	Acreage Irrigated 1936	Gross Use for Period Ac.Ft per Acre	Gross Use for Period Acres per c.f.s.
		HAMLIN CREEK					
158 to 166 & 167 to 176	Hamlin Creek above west Side Canal & Miller Creek above west Side Canal & South of Mounds	Henry Datta A.E.Strang Anna B.Miller D.Martinitti J.K.Cavitt I.S.Church C.L.Devine B.F.&C.B. Meyers	5/15 to 7/15	1681*	1696	0.99*	124*
159	H.Dotta Lower South	Henry Dotta	5/14 to 7/31	472	166.8	2.84	55
		TURNER CREEK					
177 to 184 & 186	Turner Creek above State Highway	H.A.Turner J.K.Cavitt	5/14 to 7/15	287*	180.0	1.60*	79*
184 & 186	Turner Creek between State Highway & Mounds Lane	A.B.Church I.S.Church	5/14 to 7/10	133*	135.0	.98*	125*
187 to 191	Turner Creek below Mounds Lane	A.B.Church Frank W. Freeman E.W.Clark C.W.Toomey et,al. I.Pasquetti Josie M. Swigard	5/14 to 7/30	771	700.0	1.10	84
		MIDDLE FORK OF FEATHER RIVER WEST SIDE CANAL					
221 to 247	Middle Fork of Feather River below G.A.Henderson Ranch	See Map	5/15 to 6/30	5960	5900	1.01	92

TABLE 84 (Con't)

GROSS USE OF WATER FOR STORAGE IRRIGATED FROM MIDDLE FORK OF FEATHER RIVER AND ITS TRIBUTARIES 1936

Diversion Number	Diversion Ditch	Property Owner	Irrigation Period 1936	Total Acre Feet Diverted	Acreage Irrigated 1936	Gross Use for Period Ac.Ft per Acre	Gross Use for Period Acres per c.f.s.
202 to 220	West Side Canal below Township line South of Mounds	See Map	5/15 to 6/30	3170	2600	1.22	76
175 & 187 to 191	Turner and Miller Creek West of Mounds	See Map	5/15 to 6/30	970	900	1.08	86
175 187 to 191 and 202 to 247	Middle Fork of Feather River below G.A. Henderson Ranch) West Side Canal below Township line South of Mounds and Turner Creek & Miller Creek West of Mounds	See Map	5/15 to 6/30	7100*	9400	0.76*	123*

*Water actually consumed.

PLATES

M A P S

KEY OF NUMBERS AND NAMES OF DIVERSIONS

Listed in the order of Map Sheets 1 to 7

MAP SHEET NO. 1

1. Rowland Upper North & South
2. Rowland Lower South
3. Rowland Lower North
4. Rowland South Creek
5. Ramelli
6. Hall and Ramelli
7. Ramelli Spring Channel
8. Trosi Last Chance
8A. Trosi Dooley Canyon
9. Trosi Dixie Creek
10. Galeppi Upper Last Chance
11. Trosi Grigsby Creek
11A. Galeppi Grigsby Creek and Trosi Cabin
12. Galeppi Lower Last Chance
13. Trosi Camp
14. Giudici Upper Spring Creek
15. Giudici Lower Spring Creek
16. Galeppi Spring Creek
17. Galeppi Creek
18. Trosi Spring Creek
19. Ramelli and Dotta Frenchman Creek
20. Trosi Frenchman Creek
248. Galeppi North Springs
249. Galeppi South Spring
250. Galeppi and Dotta Springs
251. Dotta Frenchman Creek Spring

MAP SHEET NO. 2

21. F. P. Giudici Upper
22. F. P. Giudici Lower
23. A. E. Giudici Dams
24. Sobrio Upper Dam
25. Sobrio Lower Dam
26. Trosi Upper
27. Trosi Middle
28. Trosi Lower
29. F. V. Dotta Upper
30. F. V. Dotta Middle
31. F. V. Dotta Lower
32. Ramelli North Channel
33. Ede Schoolhouse
34. Ede Lower
35. Goble Upper North Channel
36. Goble Middle North Channel
37. Goble Lower North Channel
47. Bonta North
48. Bonta South
49. Bonta Meadow
50. Dedman North
51. Dedman South
52. Maddalena South
53. Maddalena North
56. M. B. Humphrey East Side
57. M. B. Humphrey West Side
58. Ramelli Vinton
59. Ramelli Railroad Dam
60. Ramelli Lower Dam
269. A. D. Maddalena Pasture
270. Bonta Creek
271. Bonta East Creek
272. L. D. Maddalena Pasture
273. Laffranchini Creek
274. Trosi West & Middle Canyons
275. Trosi East Canyon

MAP SHEET NO. 3

38. Solari North Channel
39. Laffranchini North Channel
40. Huntley Upper North Channel
41. Huntley Middle North Channel
42. Huntley Lower North Channel
43. Wherity North
44. Wherity South
45. Wherity Upper Dam
46. Wherity Lower Dam
54. Noble South
61. Solari Upper East Channel
62. Solari Middle East Channel
63. Solari Lower East Channel
64. Laffranchini Upper East Channel
65. Laffranchini Middle East Channel
66. Laffranchini East Channel Division
67. Dicen Division
68. Roberti Upper
69. Roberti Lower
70. Roberti Lower Channel
71. Huntley Upper East Channel
72. Huntley Lower East Channel
73. Dicen Dam
96. A. & C. Dotta East
97. A. & C. Dotta East Dam
98. Giudici East Dam
99. Junction Dam
104. A. & C. Dotta Middle
105. A. & C. Dotta Home Ranch
106. Lower Middle Channel
107. Last Chance Dam
108. A. E. Dotta East Channel
109. A. E. Dotta Lower
114. Ramelli Division
115. A. & C. Dotta West Channel
116. A. E. Dotta Upper West Channel
117. A. E. Dotta Lower West Channel
118. Ede Lake
119. Ede Lake Cut
201. Lower Craycroft
216. Ghidossi Upper Field Dams
217. Casey West Side Dams
218. Ghidossi Lower West Side Dams
219. Humphrey Mercer
220. Albini and Humphrey
233. Filippini Lower Meadow Dams
234. Filippini Middle
235. Mickey Meadow
236. Mickey East Side Dam
237. Ede River Dam
238. Humphrey Dam East
239. Humphrey Dam West
240. Humphrey Lower Field Dams
241. M. B. Humphrey Tognazini Ranch
242. L. D. Maddalena River
276. R. E. Guscetti
277. W. H. Guscetti

MAP SHEET NO. 4

74. Parker
75. Caccini
76. Lower Staverville
77. Mountain Ranch West Side
78. Mountain Ranch East Side
77A. Trosi Mountain Ranch
79. Lombardi West
80. Lombardi East
81. Upper Concrete Dam
82. Middle East
83. Turner Channel
84. Turner South
85. Turner North
86. Lewis Bros. West
87. Lewis Bros. East
88. Cobb
89. Mill Pond Dam
90. Division Dams
91. Dory East Channel
92. Giudici East Channel
93. Keyes East
94. R. Dotta West
95. R. Dotta Main Dam
100. Giudici Middle
101. Keyes Middle
102. Upper Dotta-Genasci
103. Lower Dotta-Genasci
110. Dory West
111. Genasci Upper Field
112. Genasci Lower Field
113. Ramelli Flood
120. Antelope Upper

MAP SHEET NO. 4 (Continued)

121. Antelope West Channel
122. Antelope East Channel
229. Robbins Dam
230. Dotta Meadow Dams
231. Dotta Pump
232. Filippini Upper Meadow Dams
252. Lombardi Canyon
253. Loyalton Pipe
254. Lombardi Spring

MAP SHEET NO. 5

123. Blinman Spring Channel
124. Lemon East
125. Lemon West
126. Lemon Lower
127. Treasure and Camp Springs
128. Johnson Cold Creek
128A. Cook
137. Bony Division Dam
138. Bony Middle Concrete Dam
139. Bony Lower Dam
140. Alpers Lower Field
142. Torri Upper
256. Alpers Springs
257. Campbell Springs
258. Hobo Springs
264. Little Truckee

MAP SHEET NO. 6

129. Miller-Dellera
130. Randolph
131. Johnson Webber Creek
132. Johnson Town Creek
133. Morgan, Johnson & Adams
134. Town Pumps
135. Wilson Dam
136. Bony Upper Dam
141. Miller Town Creek
143. Torri Lower
144. Henderson Town Creek
145. Webber, Diltz and Johnson
146. Miller Upper
147. Miller Schoolhouse
148. Adams
149. Perry Creek Division
150. Webber Upper
151. Webber Lower
152. Miller Lower Perry Creek
153. West Side
154. Henderson Perry Creek
155. Amodei
156. Morgan East Channel
157. Morgan West Channel
158. H. Dotta Upper South
159. H. Dotta Lower South
160. H. Dotta Old Power
161. H. Dotta North Channel
162. H. Dotta South Channel
163. Strang Upper
164. Strang Lower
165. Martinetti and Miller
166. Miller-Hamlin
167. Miller-Strang
168. Martinetti Upper East Channel
169. Martinetti Middle East Channel
170. Strang and Martinetti Lower Field
171. Martinetti Upper West Channel
172. Cavitt Miller Creek
173. Martinetti Middle West Channel
174. Martinetti Lower West Channel
175. Miller Creek Mounds Channel
176. Adams Mounds
177. Martinetti Spring Brook
178. Cavitt Spring Brook
179. Copren Spring
180. Freeman
181. Turner West
182. Turner East
183. Turner Canyon
184. Church
185. Cavitt Turner Creek
186. Church Upper Turner Creek Meadow
187. Church Lower Turner Creek Meadow
188. Freeman Lower Meadow
189. Clark Turner Creek Meadow
190. Toomey Meadow
191. Pasquetti Turner Creek

MAP SHEET NO. 6 (Continued)

192. Davies-Johnson House
193. Davies-Johnson Spring Channel
194. Freeman Spring Channel
195. Devine Spring Channel
196. Calpine Pipe
197. Davies-Johnson Meadow
198. Freeman Fletcher Creek Meadow
199. Devine Meadow
200. Clark Fletcher Creek Meadow
201A. Upper Craycroft Creek
202. Turner Mounds
203. Henderson West Side
204. Pasquetti Upper West Side
205. Pasquetti Lower West Side
206. Humphrey O'Hara
207. Humphrey Upper
208. Humphrey Lower
209. Humphrey Home
210. Humphrey Freeman
211. Matley
212. Humphrey-Newman
214. Humphrey Division
221. Pasquetti Dam
222. East Side Slough
223. Vanetti Slough
224. Humphrey Upper River
225. Humphrey North River
226. East Side
227. Humphrey Lower Concrete Dam
228. Humphrey Lower River Dam
255. Henderson Springs
258A. Miller Spring
259. Amodei Upper Spring
260. Amodei Meadow Springs
261. H. Dotta Springs
262. Cavitt Foothill Springs

MAP SHEET NO. 7

55. Noble North
213. Berry West Side
215. Berry Meadow Dams
243. Noble East
244. Noble West
245. Noble Dam
246. Decker Dam
247. Carmichael Dam
263. Noble Reservoir
265. Nelson
266. Falchi and Noble
267. Mapes West Meadow

268. Mapes East Meadow

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
EDWARD HYATT, STATE ENGINEER

MIDDLE FORK FEATHER RIVER STREAM SYSTEM

SHOWING

DIVERSIONS AND IRRIGATED LANDS

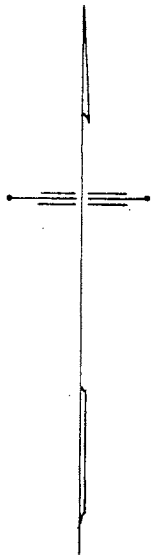
PLUMAS-SIERRA COUNTIES, CALIFORNIA

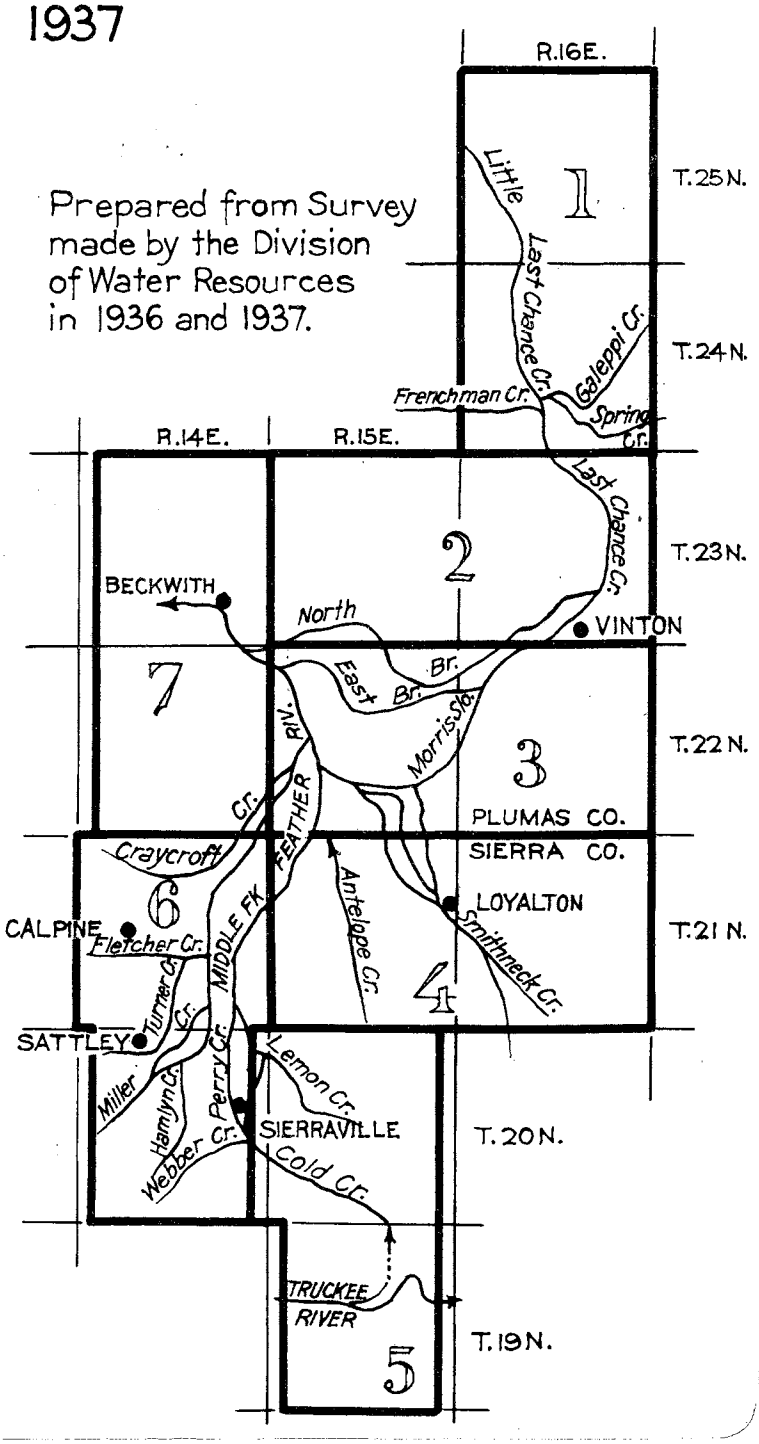
Prepared under direction of
GORDON ZANDER
Supervising Hydraulic Engineer

Approved by
HAROLD CONKLING
Deputy State Engineer

1937

Prepared from Survey made by the Division of Water Resources in 1936 and 1937.



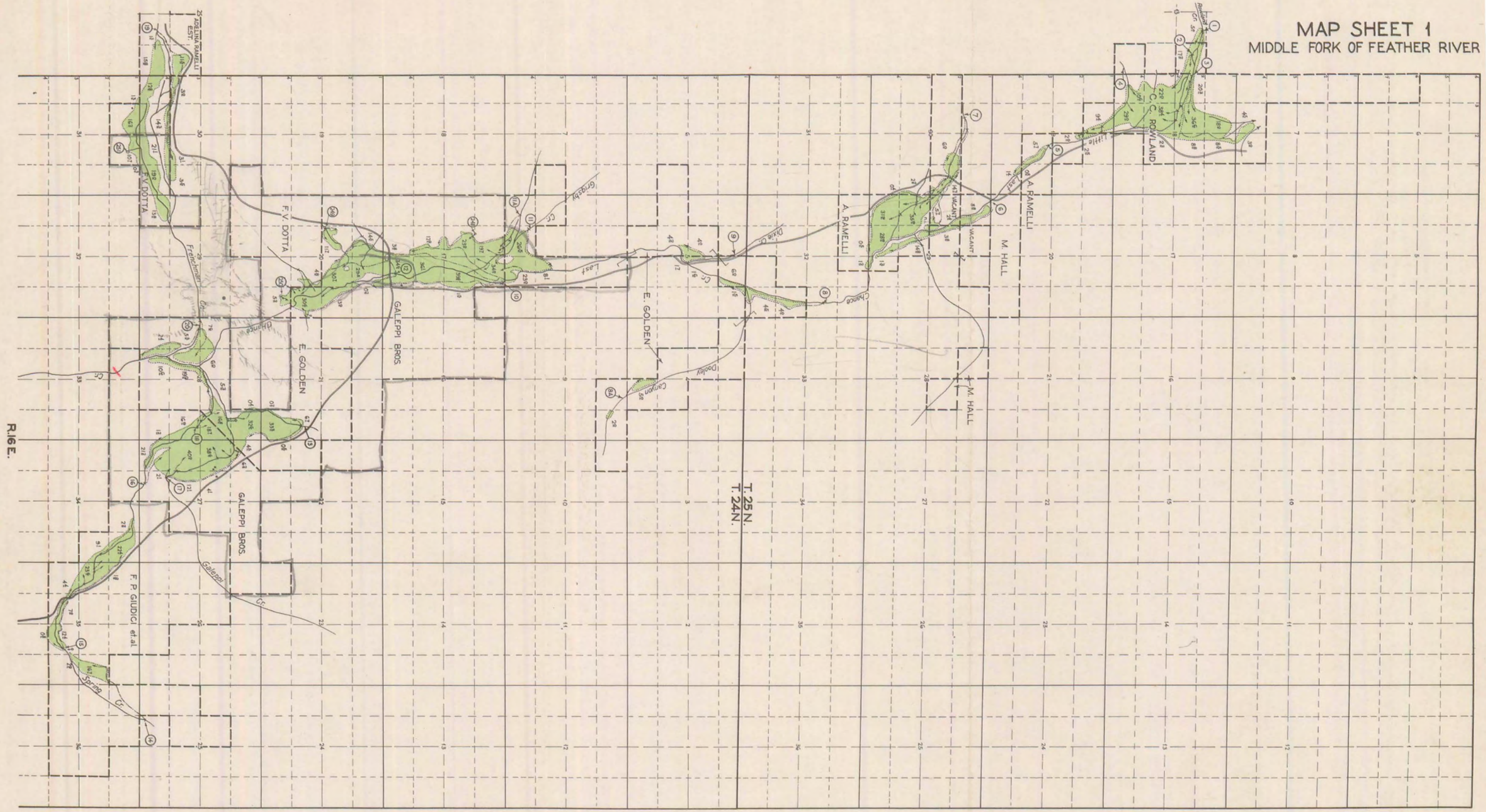


LEGEND

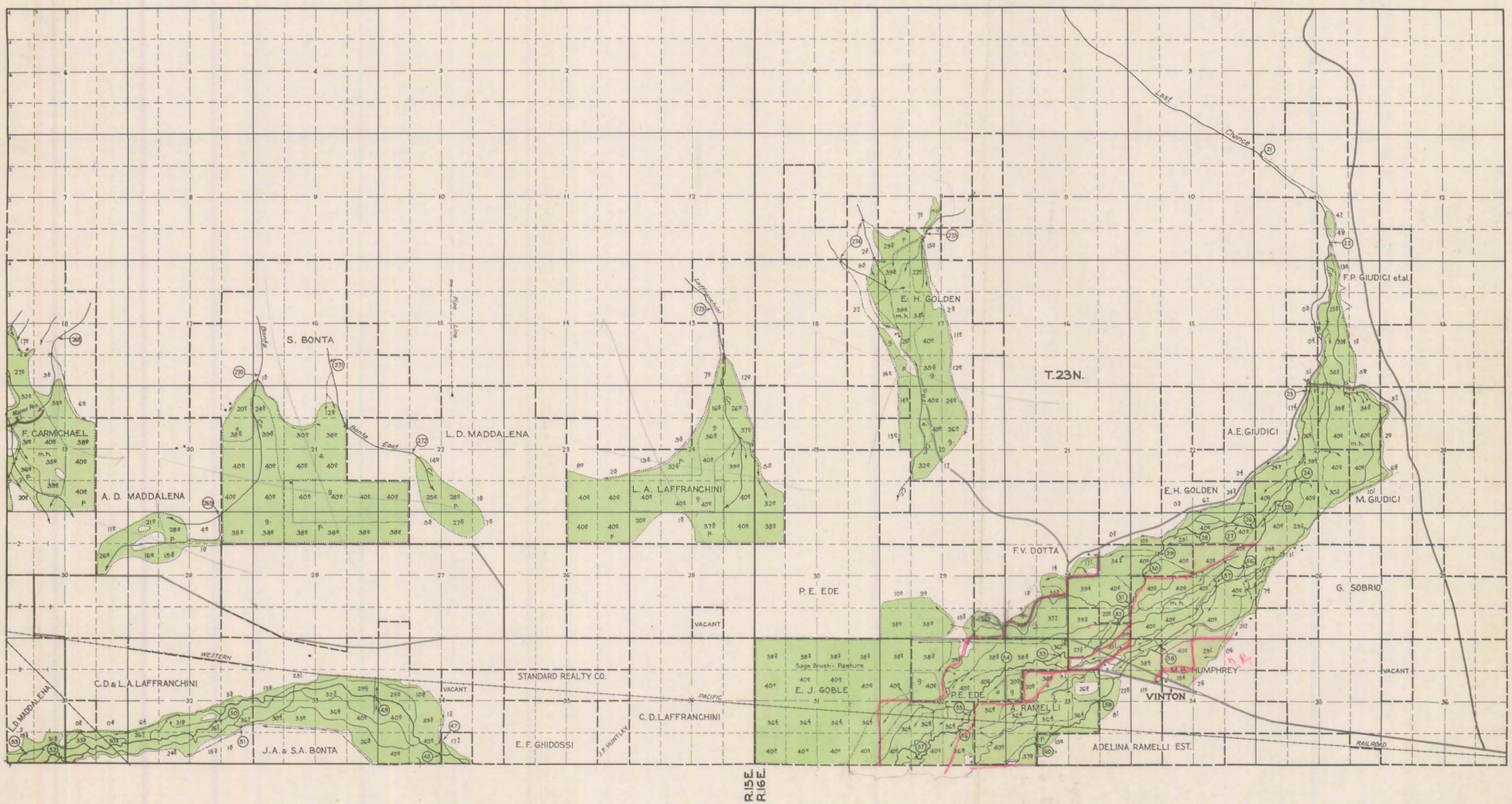
- Township Lines
- Section Lines
- Property Lines
- Roads
- Railroads
- River and Creeks
- Ditches
- Dams
- Reservoirs
- Buildings
- Irrigated Land (Green)
- Points of Diversions (2)

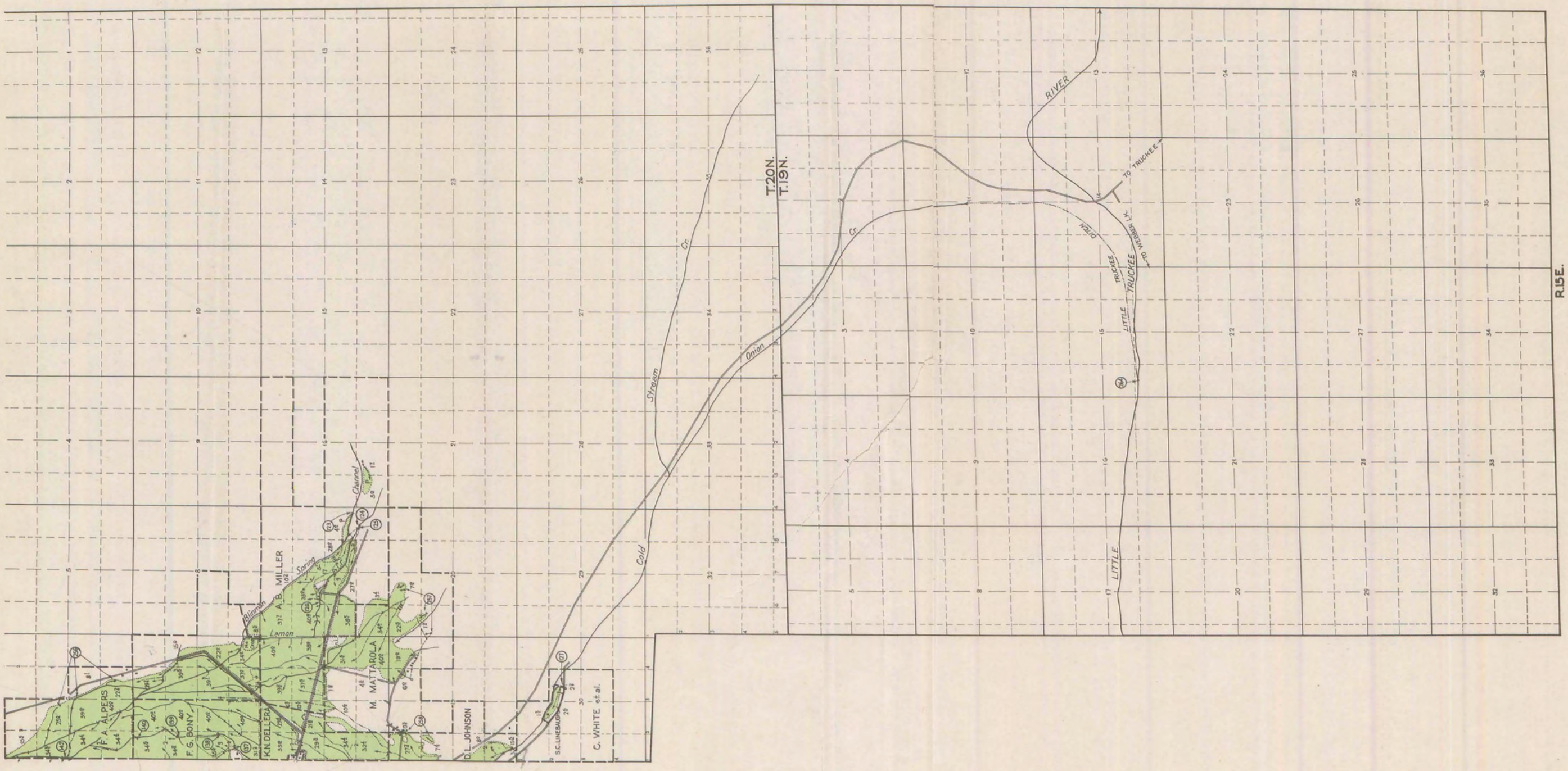
Map Sheets 1 to 7 on
Scale 1 inch = 4400 feet.

MAP SHEET 1
MIDDLE FORK OF FEATHER RIVER



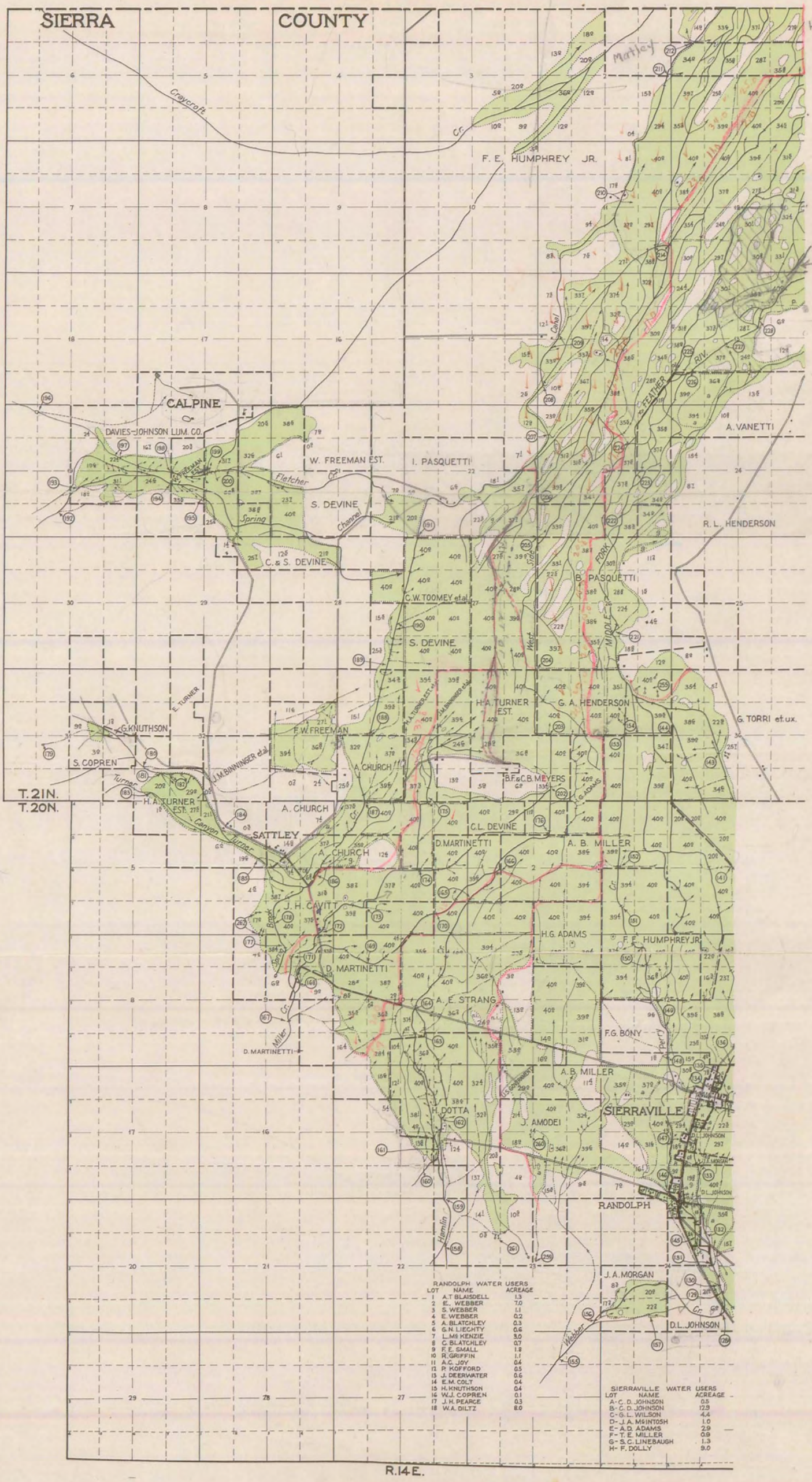
MAP SHEET 2
MIDDLE FORK OF FEATHER RIVER





MAP SHEET 5
MIDDLE FORK OF FEATHER RIVER

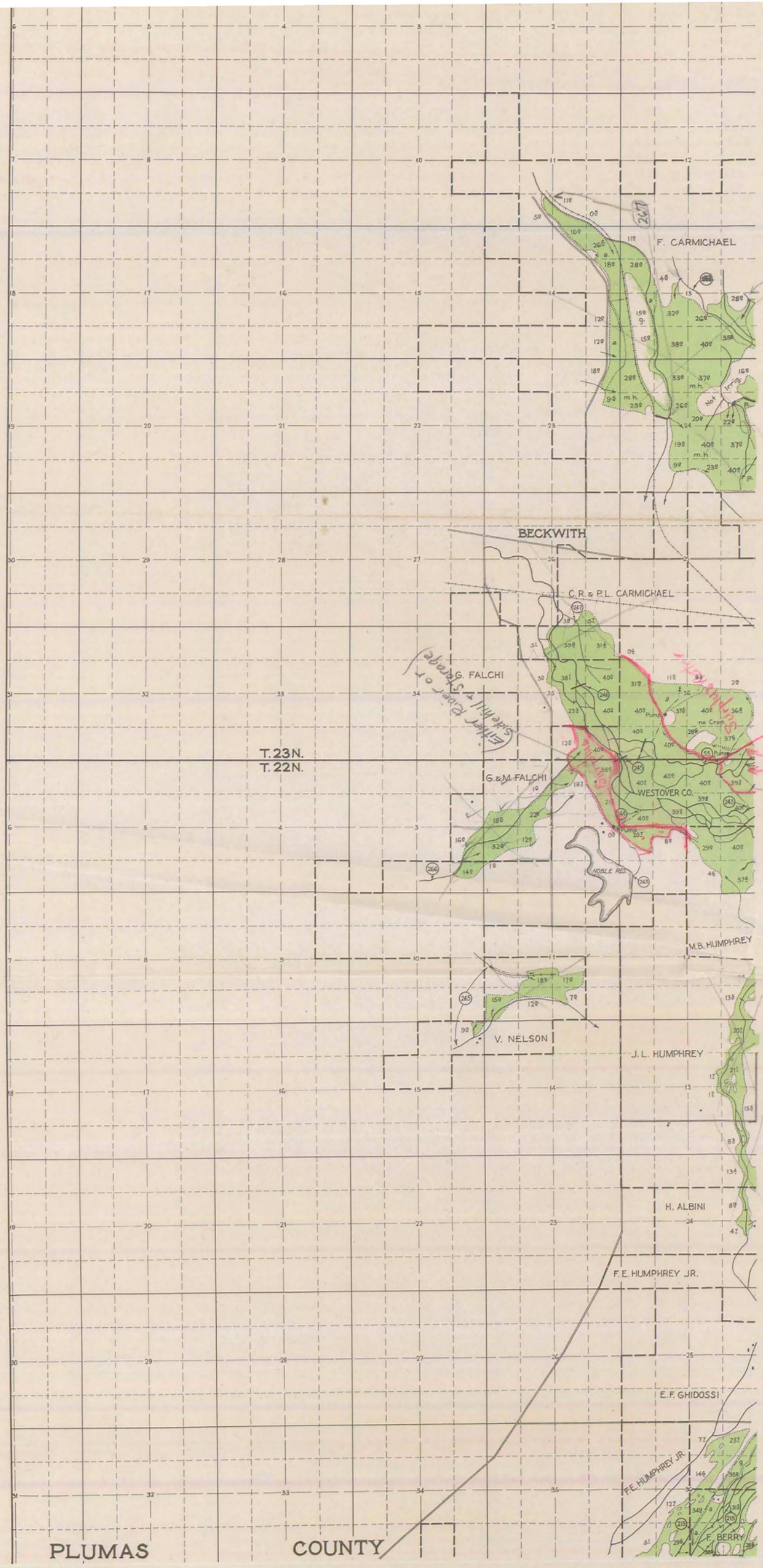
MAP SHEET 6
MIDDLE FORK OF FEATHER RIVER



RANDOLPH WATER USERS

LOT	NAME	ACREAGE
1	A.T. BLAISDELL	1.3
2	E. WEBBER	7.0
3	S. WEBBER	1.1
4	E. WEBBER	0.2
5	A. BLATCHLEY	0.3
6	G.N. LIECHTY	0.6
7	L. McKENZIE	3.0
8	C. BLATCHLEY	0.7
9	F. E. SMALL	1.8
10	R. GRIFFIN	1.1
11	A.C. JOY	0.4
12	P. KOFFORD	0.5
13	J. DEERWATER	0.6
14	E.M. COLT	0.4
15	H. KNUTHSON	0.4
16	W.J. COPREN	0.1
17	J.H. PEARCE	0.3
18	W.A. DILTZ	8.0

SIERRAVILLE WATER USERS

LOT	NAME	ACREAGE
A-	C. D. JOHNSON	0.5
B-	C. D. JOHNSON	12.9
C-	G. L. WILSON	4.4
D-	J. A. McINTOSH	1.0
E-	A.D. ADAMS	2.9
F-	T. E. MILLER	0.9
G-	S.C. LINEBAUGH	1.3
H-	F. DOLLY	9.0

MAP SHEET 7
MIDDLE FORK OF FEATHER RIV