

State of California
THE RESOURCES AGENCY
Department of Water Resources

BULLETIN No. 94-6

LAND AND WATER USE IN
KLAMATH RIVER
HYDROGRAPHIC UNIT

Volume I: Text

MAY 1965

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Administrator
The Resources Agency

EDMUND G. BROWN
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FOREWORD

In 1956, the State Legislature declared:

"... that in providing for the full development and utilization of the water resources of this State it is necessary to obtain for consideration by the Legislature and the people, information as to the water which can be made available for exportation from the watersheds in which it originates without depriving those watersheds of water necessary for beneficial use therein ..."

The Department of Water Resources was directed to conduct the necessary investigations to compile this information.

For purposes of these studies, the major drainage areas of the State were delineated. Division of these drainage areas into subareas, designated hydrographic units, was then made. The hydrographic units, which generally comprise watersheds of individual rivers, serve as the basic unit for collection and reporting of data.

The investigation is being conducted in two phases: (1) collection and publication of data on land and water use, and (2) determination and reporting of water resources and future water requirements. Collection and processing of basic data for both phases, by hydrographic units, is underway in much of the State.

The land and water use and land classification data are being published as the Bulletin No. 94 series, covering individual hydrographic units. These bulletins are distributed in preliminary editions and reviewed at public hearings. Final editions are then published including necessary revisions resulting from comments submitted at and following these hearings. These bulletins are an essential source of data for the subsequent water requirements studies, and when complete, will provide detailed data for the entire State.

This report is the sixth of the series and is the final edition of Bulletin No. 94-6 following public hearings held in the Klamath River Hydrographic Unit in April 1964.

The second phase of the investigation begins with an inventory of water resources in each drainage area, including streamflows, ground water, and water quality characteristics. Estimates of future water requirements, based on the land and water use studies and projections of foreseeable future development, are now underway in some areas. Results of these water resources and water requirements studies will be published as Bulletin No. 142 series, each covering some or all of the hydrographic units within a drainage area.

These water resources and future water requirements bulletins will provide the basis for outlining the additional projects needed to meet the State's growing water needs. By interrelating the projected water requirements of all areas of the State with the available local supplies, by decades, a recommended sequence and timing for the State's future water development plans will be established. Besides thus forming the chief basis for the Department of Water Resources' all-important project staging program, the data on water resources and water requirements will be a most valuable guide for water development planning by federal and local, as well as state agencies.

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DEPARTMENT OF WATER RESOURCES

P.O. BOX 388
SACRAMENTO

March 17, 1965

Honorable Edmund G. Brown, Governor,
and Members of the Legislature
of the State of California

Gentlemen:

Bulletin No. 94-6, "Land and Water Use in Klamath River Hydrographic Unit", presents detailed data in the hydrographic unit pertinent to land use and classification of lands as related to water as well as water use consisting of descriptions of surface water diversions and apparent water rights. Maps of present land use, surface water diversions, and land classification illustrate the text. In addition, the bulletin includes notes on the history, natural features, climate, and economy of the unit.

The studies reported herein were conducted pursuant to legislation enacted in 1956 and codified under Section 232 of the Water Code. These data will provide a factual basis for decisions of concerned interests regarding the development and use of water resources of the Klamath River Hydrographic Unit.

This report is one of a series which, when completed, will form a most valuable reference to the water resources of the State in relation to the various classes and uses of land resources. Future estimates of the amount of water which can be used beneficially in each watershed will be based upon the data contained in this series of reports together with related information from other sources.

In March 1964, the preliminary edition of this bulletin was released. In April 1964, its contents were discussed at public hearings, held in the Klamath River drainage area. This final edition incorporates revisions based on comments made at these hearings, written comments, and further field investigation.

Sincerely yours,

A handwritten signature in cursive script that reads "William E. Warne".

Director

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ACKNOWLEDGMENT

The Department of Water Resources gratefully acknowledges information contributed by the numerous water users and residents of the Klamath River Hydrographic Unit and various agencies of the federal, state, and local governments.

Special mention is made of the helpful cooperation of the Forest Service, United States Department of Agriculture, and the Farm Advisors for Del Norte, Humboldt and Siskiyou Counties.

The Department particularly appreciates the assistance of Mr. Sedgely D. Nelson, Siskiyou County Farm Advisor, with the collection of supplementary data following the public hearing.

PUBLIC HEARINGS
on
Preliminary Edition
of
Bulletin No. 94-6
Land and Water Use in Klamath River
Hydrographic Unit

In accordance with Section 232 of the Water Code and the Department of Water Resources' policy, three public hearings were held in April 1964 to receive comments on the preliminary edition of Bulletin 94-6, "Land and Water Use in Klamath River Hydrographic Unit". Mr. Robert E. Foley, Chief, Special Investigations Section, Northern Branch, assisted by other Water Resources personnel conducted these hearings.

The first hearing, held April 14, 1964, in the Siskiyou County Courthouse, Yreka, California, was attended by 21 members of the public. Comments and/or data leading to modification of the preliminary edition were submitted by the following persons:

Mr. George Marion Grieb, Hornbrook, California
Mr. M. V. Maxwell, Chairman, Siskiyou County
Resources Board, Yreka, California
Mr. Sedgely D. Nelson, Farm Advisor, Yreka, California

Following this hearing, Mr. Sedgely Nelson arranged a special meeting and assisted Department personnel in receiving additional data with regard to surface water diversions. Nine additional diversion systems were included, and revisions were made relative to 24 already listed. Tables 4, 6, 7, and 8 and Plate 2 were revised accordingly, in addition to minor revisions elsewhere in the report.

The second hearing, held April 15, 1964, in Klamath, California, was attended by 12 members of the public. The third hearing was also held April 15, 1964, in Eureka, California. This meeting was attended by 15 members of the public. No comments or data requiring modification of the preliminary edition were made at either of these two hearings.

CHAPTER I. INTRODUCTION

This bulletin presents basic data on land and water use in the Klamath River Hydrographic Unit. These data cover present land and water use, classification of lands, systems used to divert surface waters, histories of diversions, apparent water rights pertinent to each diversion, purposes and extent of use of diversions, seasonal quantities of water diverted during 1958, and an estimate of present consumptive use of water in the unit. A general description and brief history of the area are also included.

These basic data were gathered during the period 1958-59 in compliance with Chapter 61, Statutes of 1956, as amended by Chapter 2025, Statutes of 1959, and codified in Section 232 of the Water Code of the State of California. This legislation provides for an inventory of water resources and water requirements of the State. This is the sixth in a series of bulletins being prepared under this authorization. The text of Section 232, with a discussion of its history and implications, is included in this bulletin as Appendix A.

These data will provide the basis for future determination of the quantities of water reasonably required for future beneficial use in the Klamath River Hydrographic Unit. Estimates of these quantities have been made and presented in Department of Water Resources Bulletins No. 58, "Northeastern Counties Investigation," June 1960, and No. 83, "Klamath River Basin Investigation," May 1960. Final determinations will be based on estimates of (1) future land use, (2) economic patterns, (3) population, (4) industrial and agricultural development, and (5) recreational needs.

The data presented herein have been reviewed in preliminary form by interested local water users. Changes submitted by these water users were reviewed in the field and adjustments were made where warranted.

Organization of Report

This bulletin consists of five chapters, three appendixes, and three plates. Chapter I contains a general description of the Klamath River Hydrographic Unit. Chapter II, "Water Use," presents data on surface water diversion systems, related water rights information, measurements of quantities of water diverted, and an analysis of consumptive use. Chapter III, "Land Use," includes tables of present land use and irrigated lands. Chapter IV, "Land Classification," includes a tabulation of lands classified as to their potential for irrigated agriculture and for recreational purposes. Chapter V summarizes the report.

Appendix A presents the text of Section 232 of the California Water Code and a discussion of the pertinent responsibilities and work program of the Department of Water Resources. Appendix B lists related investigations and other references pertinent to the Klamath River Hydrographic Unit. Appendix C, "Legal Considerations," presents a short summary of California water law, a review of litigation involving water rights in the Klamath River Hydrographic Unit, and a tabulation of applications to appropriate water in the unit.

Plate 1 is a map showing the general location of the Klamath River Hydrographic Unit. Areas of present land uses and the location of diversion systems are shown on Plate 2. Classes of lands are shown on Plate 3.

Location

The Klamath River Hydrographic Unit is one of the most northerly units in the State. For approximately 75 miles its northern boundary coincides with the California-Oregon border. The unit includes the area drained by the Klamath River, the Salmon River, and the lower 20 miles of the Scott River, and includes 234 square miles of Del Norte County, 523 square miles of Humboldt County, and 2,605 square miles of Siskiyou County, for a total area of 3,362 square miles. The unit is bounded by the watersheds of the Smith River on the northwest, Butte Creek on the east, Shasta, Scott, and Trinity Rivers on the south, Redwood Creek on the southwest, and the Pacific Ocean on the west.

The Klamath River, draining approximately 15,000 square miles, originates in Upper Klamath Lake in southern Oregon, which is fed primarily by the Wood and Williamson Rivers from the north and the Sprague River from the east. From Upper Klamath Lake, the river flows southwesterly into California, where it is joined by the Shasta River about 12 miles below the Oregon border, by the Scott River near Hamburg, the Salmon River at Somes Bar, and the Trinity River at Weitchpec. From here the river flows northwesterly about 42 miles to the Pacific Ocean at Requa.

For purposes of this report the Klamath River Hydrographic Unit has been divided into 14 subunits, shown on Plate 1, "Area of Investigation". The area of each subunit is shown in Table 1.

TABLE 1

AREA OF SUBUNITS IN
KLAMATH RIVER HYDROGRAPHIC UNIT
(in square miles)

| Subunit | : Del Norte : County | : Humboldt : County | : Siskiyou : County | : Total |
|-----------------|-------------------------|------------------------|------------------------|---------|
| Applegate River | 0 | 0 | 91 | 91 |
| Beaver Creek | 0 | 0 | 264 | 264 |
| Cecilville | 0 | 0 | 289 | 289 |
| Copco Lake | 0 | 0 | 100 | 100 |
| Happy Camp | 0 | 0 | 240 | 240 |
| Hornbrook | 0 | 0 | 269 | 269 |
| Klamath Glen | 199 | 300 | 0 | 499 |
| Salmon River | 0 | 0 | 103 | 103 |
| Sawyers Bar | 0 | 0 | 203 | 203 |
| Scott Bar | 0 | 0 | 151 | 151 |
| Seiad Valley | 0 | 0 | 200 | 200 |
| Somes Bar | 0 | 1 | 531 | 532 |
| Weitchpec | 35 | 222 | 16 | 273 |
| Wooley Creek | 0 | 0 | 148 | 148 |
| TOTALS | 234 | 523 | 2,605 | 3,362 |

Historical and Present Development

Economic and cultural development in the Klamath River Hydrographic Unit resulted from the activities of nations and individuals seeking to profit from the abundant natural resources of the area.

Governments of Mexico, England, Spain, and Russia have at various times in the past, had interests in the northern coast of California. Expeditions were dispatched from Lower California, Mexico, and abroad to explore this new area. The English captain Sir Francis Drake, sailed up the Pacific Coast perhaps as far as the Klamath River in 1579. Sebastian Visciano explored the coast in 1603. Bruno de Haceta and Juan Francisco de la Bodega y Cuadra sailed up the coast from New Spain in 1775. In the fall of 1826, a trapper from the Hudson's Bay Company, Peter Skene Ogden, set out from Fort Vancouver on the Columbia River for the region of the "Clammitte." His diary gives the earliest account of white men in the area north of Mount Shasta. In 1828 Captain Jedediah S. Smith headed a trapping expedition overland from a fort near the Great Salt Lake to the Northern California coast. On May 25, 1828, his party crossed the Klamath River near the present town of Klamath.

Development of the upper reaches of the Klamath River is associated with the development of the interior valleys of Siskiyou County and the natural resources. The development of the Lower Klamath River in Humboldt and Del Norte Counties is oriented toward the Pacific Ocean and the coastal area. The interior valleys and the coastal area are separated by many miles of mountains which once formed an effective barrier.

The development of the Lower Klamath River region was temporarily delayed by the discovery of gold in 1848 in the Mother Lode region of the Sierra Nevada. However, in 1850 gold was also discovered

on the beach of Gold Bluff about 10 miles south of the mouth of the Klamath River. Although development of the Gold Bluff area proved to be unprofitable, settlement of the area was given impetus by the many miners pushing inland to the rich gold-bearing areas of the Klamath River.

At the time of admission of California into the United States (September 9, 1850), the State was divided into 27 counties.^{1/} Each of these counties encompassed a vast but sparsely settled area. The extreme northern portion of the State was divided into Trinity County on the coast and Shasta County on the east. In 1851, Klamath County was formed from the northern half of Trinity County, and in 1852 Siskiyou County was formed from the northern half of Shasta County and a portion of the newly-formed Klamath County. The western portion of Trinity County became Humboldt County in 1853. Del Norte County was formed from the northern portion of Klamath County in 1857, and in 1875 Klamath County was dissolved, its remaining territory being divided between Humboldt and Siskiyou Counties. It is the only organized county of the State to have been dissolved.

In 1851 the town of Klamath City was established as a port of entry for goods mostly destined for the miners in the upstream areas of the Klamath River. Frames for buildings were prefabricated in San Francisco and shipped to Klamath City by schooner. Miners and traders came in great numbers expecting to find easy access to the rich bars on the Klamath River. However, the city was short-lived, for when the miners did not meet with immediate success, they moved on to richer areas.

^{1/} Frances Turner McBeth, "Lower Klamath Country"

Orleans Bar, now called Orleans, was once a mining center on the Klamath River. It was also the county seat of Klamath County from 1855 until the county was dissolved in 1875. The two previous county seats were the cities of Trinidad (from 1851 to 1854) and Crescent City (from 1854 to 1855).

Prominent mining camps were established along the Salmon River at Forks of Salmon, Sawyers Bar and Cecilville. During the winter seasons mules shod with snowshoes plodded over the 6,000-foot Jackson Peak Pass to provide communication between the Salmon River region and Yreka.

Happy Camp was located in the midst of a continuous belt of hydraulic mines along the Klamath, there being as many as three river channels exposed along this course. These old riverbeds were rich with gold and afforded ideal hydraulic mining conditions. One of the largest mines in Northern California was the Van Bruant Mine located at Happy Camp. The old mine site is now the Happy Camp Airport.

Seiad Valley, once called Seiad Ranch, was originally settled in 1854 by a New York gentleman named William B. Reeves who used the fertile valley to grow potatoes. The valley is two miles long and one mile wide.

Gold mining was carried on from the mouth of the Klamath to Hornbrook where the gold-bearing formations give way to overlying, newer volcanic materials to the east. Gold was found to be scarce in these volcanic formations; consequently very little early development took place east of Hornbrook and Henley.

Fifteen years after the discovery of gold, the large, rich placer mines in the Klamath River Hydrographic Unit were mostly

worked out and mining was concentrated on the bars along the river and the riverbed proper. Mining of the riverbed was accomplished by partially damming the river, exposing enough bed to provide one season's work. For many years mining was carried on by reworking the old placer ground.

As the gold deposits became worked out, most of the miners moved on to more lucrative areas, leaving many of the once busy mining camps deserted.

During the height of the gold rush along the Klamath River, many of the settlers began to plant crops, raise livestock, and develop the abundant timber resources of the area. These people remained in the area after the gold deposits diminished to concentrate their efforts on agriculture, trade, and commerce. Irrigation water was supplied through old mining diversion systems, some of which are in use today.

Most of the agriculture was carried on for local consumption until transportation facilities were improved by the advent of the Marysville to Portland rail line. Before the rail line existed, the primary means of transportation was by horseback and the stage routes through the region, but the cost of shipping agricultural products in large quantities by stage was prohibitive.

Agriculture has not become a major economic factor in the Klamath River Hydrographic Unit for two reasons: (1) scarcity of suitable land, and (2) poor access to the land that is suitable for growing crops. For these reasons the only agricultural product developed for export to any extent has been livestock. Of the 43,390 acres in the hydrographic unit classified as irrigable, 6,700 acres or

15.4 percent, had irrigation facilities in 1958. In addition, there were 13,240 acres dry-farmed during 1958, of which 12,560 acres were in the vicinity of Hornbrook.

The lands classified as irrigable are small parcels scattered along the Klamath and Salmon Rivers and some of the larger tributaries such as Cottonwood and Seiad Creeks. This plus a generally short frost-free period and moderate to heavy winter rainfall, minimizes the effectiveness of irrigation.

The first fishery in the unit to engage in the business of catching and salting fish for market was established on the Klamath in the fall of 1876. This commercial fishing industry, which flourished for 50 years at the mouth of the river, provided employment for many of the Indians for a few months each year. Fish were caught, salted or canned, and shipped out by small schooners or streamers which were able to navigate the river despite the sandbars which often formed at the mouth. Commercial fishing was discontinued on the Klamath River about 1925.

There are three major hydroelectric powerplants in the hydrographic unit which are owned by the California-Oregon Power Company. Two of these plants are on the Klamath River near the town of Copco and the third is on Fall Creek near its confluence with the Klamath River. These plants are part of a system that serves northeastern California and southeastern Oregon. In 1952, the power output of these three plants was 390,000,000 kilowatt-hours, more than 90 percent of the company's total hydroelectric production.



Confluence of Grouse
Creek and Klamath
River



Irrigation Along
Horse Creek

The Klamath River Hydrographic Unit contains 1,510,000 acres classified as commercial timberland by the U. S. Forest Service with an estimated potential yield of 41,300,000,000 board feet. The percent of timber cover in different localities within the unit varies considerably. The Del Norte County portion of the hydrographic unit is about 92 percent forested; Humboldt County about 82.5 percent forested; the Salmon River drainage area is about 76 percent forested; and the remaining Siskiyou County portion of the hydrographic unit is approximately 65 percent forested.

These areas within the hydrographic unit vary in percentage of acreage in commercial timberlands and in the relative density of the forest lands. In general, the areas with greater percentages of commercial forest lands also have the denser stands. These are: Del Norte County portion, 38,000 board feet per acre; Humboldt County portion, 36,000 board feet per acre; Salmon River area, 25,000 board feet per acre; and the remaining portions of Siskiyou County, 23,000 board feet per acre.

The western area is more heavily forested because of its higher rainfall and its lack of development before 1950. The western area's forests are primarily of Douglas fir with stands of redwood. In the eastern portion of the hydrographic unit the forests contain a preponderance of mixed pines, firs, and Douglas fir, typically less dense than fir and redwood forests.

The eastern area has a long history of logging and milling operations while the western portion has had almost its entire development since 1950. In the area east of Seiad Valley, mills were operating prior to 1915, and production from that area has remained relatively



Copco Lake and
Powerhouse #1,
California-Oregon
Power Company

Lumber Mill at
Town of Klamath



constant in recent years. The more recent harvesting in the western forest has been conducted on a more controlled basis, both on private and public lands.

The Klamath River Hydrographic Unit has an economy which is based primarily on forest resources. The total manufacturing capacity in 1958 amounted to 232,000,000 board feet of rough lumber, 57,000,000 feet of remanufactured lumber, and 297,000,000 square feet of veneer. These figures represent an aggregate increase in wood products manufacturing capacity of about 85 percent over that of 1950.

Between 1950 and 1958 the increase in lumber processing facilities in the western portion of the unit amounted to three sawmills, one remanufacturing plant, and four veneer plants. Although the total number of wood processing plants in the hydrographic unit approximately doubled between 1950 and 1958, the U. S. Forest Service estimate of sustained yield potential of the basin is probably no more than two-thirds utilized at present. An estimated 175,000,000 board feet of logs from this area were processed outside the area in Arcata and Crescent City and in southern Oregon during 1956. Prior to 1950 very few, if any, logs from this area were processed outside the basin.

The inland, or eastern Siskiyou County portion of the Klamath River Hydrographic Unit has been oriented historically toward the development of its mineral resources and is still the primary mineral producing area in the basin. However, the mining industry since World War II has been relegated to a secondary position in the unit's economy. In 1948 total mineral production in the unit is estimated to have been about \$500,000 and in 1958 about \$350,000.

Gold ore and chromite have been the principal minerals produced in the unit during the past 15 years, although minor amounts of platinum, copper, lead, mercury, and gravel have also been produced. Gold, particularly in placer deposits, is found throughout the basin, although the lode zone is entirely in the interior portion. The poor condition of the gold market since World War II has been responsible for closing almost all of the lode mines except the Siskon Mine near Happy Camp. Although gold, both placer and lode, still leads in value, its production is only a fraction of that prior to 1942. Chromite is primarily a strategic mineral and its production has been high during government stockpiling periods. Since 1954, this production has consistently decreased as present stockpiles were built up. The second largest known chromite ore body in the State is the Seiad Creek development which is estimated to have at least 266,000 tons of 6 percent trioxide ore reserves. Sand and gravel deposits in this region are abundant but development of them has been limited primarily to local road construction projects.

Copper production has been the most significant of the minor minerals. Both the Blue Ledge Mine near Seiad Valley and the Gray Eagle Mine near Happy Camp have produced large quantities of copper. Platinum in varying amounts has been recovered during gold dredging operations along the Klamath River. Small amounts of lead have been obtained as a by-product of copper mining at the Blue Ledge Mine and small quantities of mercury have been produced from the Beaver Creek area.

The recreational assets of the Klamath River Hydrographic Unit are abundant and highly varied. The principal present recreational uses are stream fishing, camping, and deer hunting.

It is estimated that during 1955 there were 300,000 visitors who expended \$25,000,000 in the unit. Approximately 50 percent of these were engaged in trout and salmon fishing, 10 percent in big game hunting, and 40 percent in other recreational activities such as hiking, camping, picnicking, and sightseeing.

Steelhead trout fishing is seasonally quite intense in the rivers of the unit. Other forms of recreation in the unit are not highly developed considering the vast area of forested public lands in the basin. Resorts along the river cater mainly to fishermen. There are areas suitable for winter sports but these are generally inaccessible. River boating is dangerous except in the lower portions, due to the number of rapids in the river. Although recreation is currently the second largest industry in the unit, further development, except in the coastal portion, will be limited until sufficient access roads are constructed.

Transportation is quite limited in the unit. A Southern Pacific main rail line from California to Oregon runs about 15 miles through the northeastern portion of the unit. There is no commercial air service, and there are no publicly owned airfields. Water transportation is restricted to rafting of logs on the lower portion of the Klamath River. State Highway 96 follows the Klamath River from the northeastern segment of the unit to Weitchpec in Humboldt County. State Highways 99 and 101 traverse the eastern edge and the western or coastal edge, respectively, for approximately 15 miles each. There are few county roads in the unit, the largest network of roads being logging roads. The U. S. Forest Service also maintains a network of roads throughout national forest lands.



Gray Eagle Mine
Near Happy Camp

Recreation on the
Klamath River



(Courtesy Trees Motel Near
Town of Klamath)

There are no incorporated towns in the Klamath River Hydrographic Unit. The majority of the population in the unit forms small semiurban clusters within the small valleys tributary to the Klamath River and in the valley plain areas along the river itself. These clusters, none of which has a population over 750, tend to form near sawmills, veneer plants, resort areas, or road junctions.

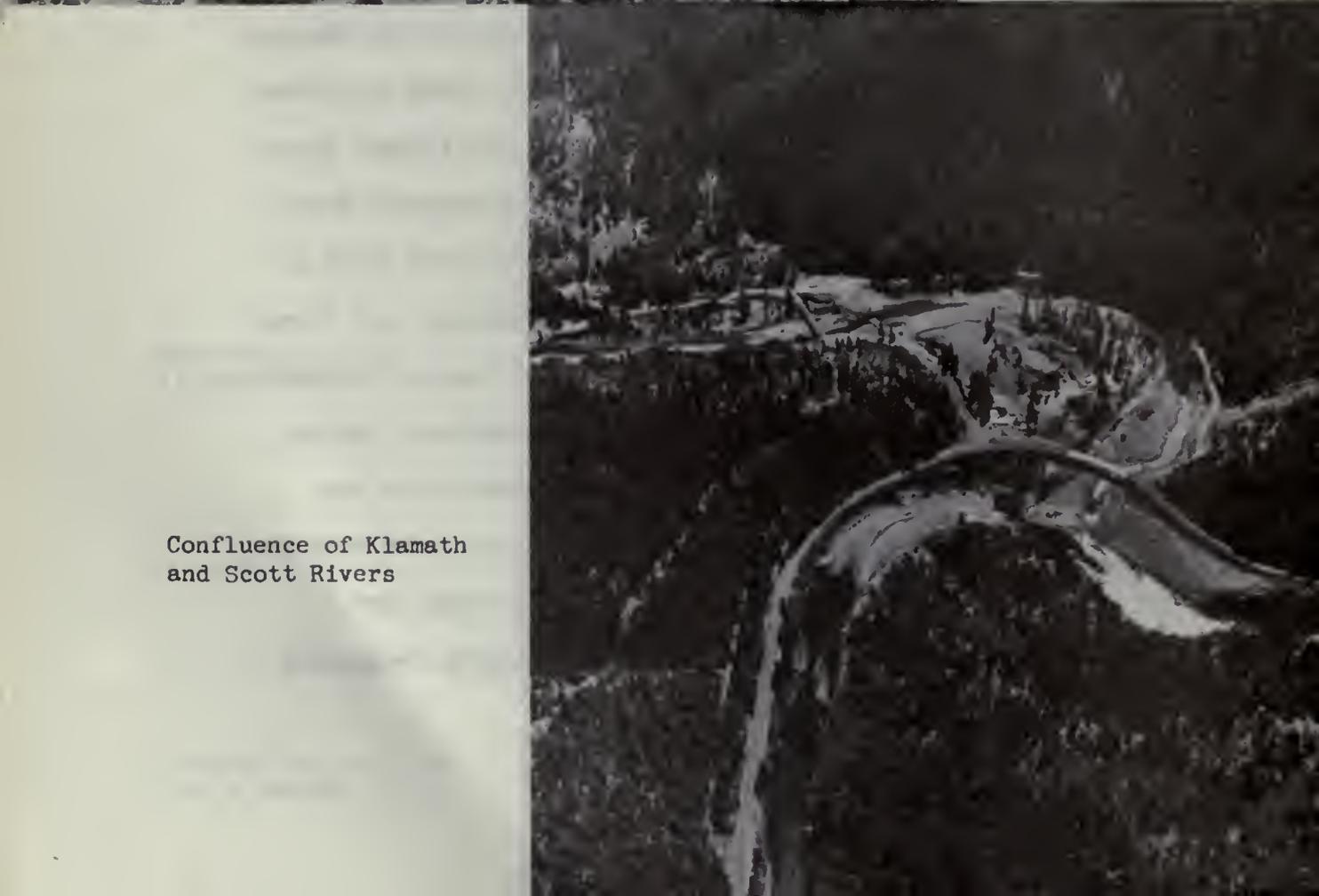
Natural Features

The Klamath River Hydrographic Unit covers an area of 3,362 square miles within the confines of Del Norte, Humboldt, and Siskiyou Counties in the northwest portion of the State. The unit varies in elevation from sea level at the mouth of the Klamath River near Requa, to 8,966 feet above sea level at the headwaters of the South Fork of the Salmon River in the Trinity Alps.

The easternmost portion of the unit lies within the Cascade Range. Rocks consist primarily of Tertiary volcanic flows with minor amounts of Cretaceous marine sandstone and shale. The Klamath River system is deeply entrenched in the nearly flat-lying volcanic rocks. Progressing westward into the Klamath Mountains, the rocks range in type from granitics to metamorphics, including serpentine, and in age from pre-Silurian to late Jurassic. Geology of this area is extremely complicated by multiple fold systems and numerous faults of varying magnitudes. The major portion of the unit is located within the Klamath Mountains Province. The near coastal reaches of the unit are located in rocks of the northern Coast Range. These rocks are primarily sandstone, shale, and conglomerate of probable Cretaceous age.



Klamath River Near
Streamwood



Confluence of Klamath
and Scott Rivers

Soils of the unit can be segregated into two groups, recent alluvial soils and upland soils. The recent alluvial soils were formed from material eroded from the watershed through natural geological processes. These materials were transported and redeposited along the banks of the many rivers and streams that transect the area. These soils exhibit little or no development of subsoil layers that would restrict the movement of water or the development of plant roots. Many of these alluvial soils, however, are of such coarse texture that irrigation efficiency would be low and crop yields would be severely reduced. Placer mining in the early days of this area has reduced many of these alluvial soil deposits to jumbled piles of loose water-polished rock and gravel.

The upland soils were formed in place by the weathering and decomposition of the parent rock material upon which they rest. The native vegetation on these soils is largely mixed conifer. Where slope is not excessive the soils are deep, well drained, and generally free from any soil deficiency which would restrict their suitability for agricultural use. Many acres of these upland soils, however, were classified as being better suited to remain under some type of forest management.

Soil bodies suitable for agricultural development in the Klamath River area are generally small, isolated, and irregularly shaped. This presents a formidable obstacle to the development of other than small parcels of irrigated pasture, hay crops, or deciduous orchard.

Climate

The climate of the Klamath River Hydrographic Unit is characterized by dry summers with high daytime temperatures and wet winters with moderate to low temperatures. The average maximum temperature for July, which is generally the hottest month, ranges from approximately 65° F. near the ocean at Klamath to 95° F. in the interior near Happy Camp. The higher elevations of the mountains experience a temperature decrease of about 2° F. per 1,000 feet of elevation. About 85 percent of the precipitation occurs from October to March with occasional showers during the summer months. The mean seasonal precipitation, the mean and extreme temperatures, and the average frost-free period of representative stations in or near the unit are shown in Table 2. Values of precipitation are based on or corrected to the period 1905-06 to 1954-55. For purposes of this report the frost-free period is defined as the average period in days between the last spring occurrence and the first fall occurrence of a 32° F. temperature for the period of record.

Water Resources

Surface water flows on the Klamath River are regulated in the Upper Klamath Basin under the Klamath River Basin Compact, ratified by the States of California and Oregon on April 17, 1957. (See Water Code Sections 5900-5901.) These flows as measured at the USGS gaging station "Klamath River at Keno, Oregon" are, for all practical purposes, the impaired runoff flowing into California from the Upper Klamath River Basin. Information obtained from representative gaging stations throughout the hydrographic unit is summarized in Table 3.

TABLE 2

CLIMATOLOGICAL DATA AT SELECTED STATIONS
IN OR NEAR KLAMATH RIVER HYDROGRAPHIC UNIT

| Station | Elevation (in feet) | Mean seasonal precipitation (in inches) | Mean temperatures | | Extreme temperatures | | Average frost-free period (in days) |
|---------------------|------------------------|---|----------------------|---------|-------------------------|---------|--|
| | | | Minimum | Maximum | Minimum | Maximum | |
| | | | :(in degrees F.) | | :(in degrees F.) | | |
| Cecilville-Sawyer | 3,000 | 36.76 | 35.5 | 67.2 | 2 | 108 | 118 |
| Copco Dam No. 1 | 2,700 | 16.29 | --- | --- | --- | --- | --- |
| Fort Jones | 2,720 | 20.16 | 33.9 | 66.5 | -23 | 110 | 108 |
| Happy Camp R. S. | 1,088 | 50.44 | 40.4 | 71.5 | 6 | 115 | 186 |
| Hilts | 2,915 | 20.20 | --- | --- | --- | --- | --- |
| Klamath | 25 | 77.04 | 44.8 | 61.0 | 24 | 90 | 259 |
| Klamath Falls, Ore. | 4,090 | 13.09 | 36.4 | 60.7 | -24 | 105 | 125 |
| Oak Knoll R. S. | 1,963 | 21.50 | --- | --- | --- | --- | --- |
| Orleans | 403 | 47.84 | 42.3 | 71.3 | 14 | 113 | 204 |
| Sawyers Bar R. S. | 2,169 | 42.44 | --- | --- | --- | --- | --- |
| Yreka | 2,631 | 17.32 | 36.7 | 67.2 | -11 | 112 | 138 |

TABLE 3
RECORDED RUNOFF AT SELECTED STATIONS
IN OR NEAR KLAMATH RIVER HYDROGRAPHIC UNIT

| | Klamath River at Kena | Klamath River below Fall Creek | Shasta River near Yreka | Scott River near Fort Jones | Klamath River near Seiad Valley | Klamath River at Sames Bar | Salmon River at Sames Bar | Trinity River near Hoopa | Klamath River near Klamath |
|--|----------------------------|-----------------------------------|----------------------------|--------------------------------|------------------------------------|-------------------------------|------------------------------|---|-------------------------------|
| Period of Record | 1904 - 1913 1929 - 1958 | 1923 - 1958 | 1933 - 1941 1945 - 1958 | 1941 - 1958 | 1912 - 1925 1951 - 1958 | 1927 - 1958 | 1911 - 1915 1927 - 1958 | 1911 - 1914 1916 - 1918 1931 - 1958 | 1910 - 1926 1950 - 1958 |
| Annual Discharge | | | | | | | | | |
| Minimum Acre-foot Year | 395,000 1931 | 550,000 1931 | 56,500 1933-34 | 168,800 1944 | 1,460,000 1920 | 2,240,000 1931 | 473,000 1931 | 1,900,000 1934 | 3,740,000 1924 |
| Maximum Acre-foot Year | 2,600,000 1956 | 2,905,000 1956 | 254,900 1958 | 944,300 1958 | 5,397,000 1956 | 11,170,000 1956 | 2,253,000 1958 | 8,886,000 1958 | 24,150,000 1958 |
| Average Acre-foot | 1,247,000 | 1,320,000 | 130,300 | 488,700 | 3,103,000 | 5,657,000 | 1,249,000 | 4,228,000 | 13,100,000 |
| 1958 Discharge Acre-foot | 2,375,000 | 2,679,000 | 254,900 | 944,300 | 5,122,000 | 10,750,000 | 2,253,000 | 8,886,000 | 24,150,000 |
| Percent of average | 194 | 203 | 196 | 193 | 165 | 190 | 180 | 210 | 184 |
| Summer Discharge (April - September) | | | | | | | | | |
| Minimum Acre-foot Year | 61,700 1931 | 141,000 1931 | 11,148 1934 | 90,800 1955 | 329,160 1955 | 738,700 1931 | 192,730 1934 | 621,300 1934 | 1,114,000 1924 |
| Maximum Acre-foot Year | 1,173,140 1956 | 1,317,700 1956 | 99,070 1941 | 443,990 1952 | 2,237,100 1956 | 4,386,500 1958 | 1,039,900 1958 | 2,868,680 1938 | 7,444,100 1958 |
| Monthly Discharge | | | | | | | | | |
| Minimum Acre-foot Month and year | 5,810 June 1931 | 19,000 June 1931 | 513 Aug. 1939 | 1,910 Sept. 1955 | 51,000 Aug. 1918 | 33,800 Aug. 1931 | 4,940 Aug. 1931 | 12,700 Sept. 1934 | 96,400 Aug. 1918 |
| Maximum Acre-foot Month and year | 421,000 June 1904 | 439,900 Mar. 1958 | 55,670 Feb. 1958 | 266,200 Feb. 1958 | 998,700 Feb. 1958 | 2,536,000 Feb. 1958 | 621,300 Feb. 1958 | 2,798,000 Feb. 1958 | 6,841,000 Feb. 1958 |
| Instantaneous Discharge | | | | | | | | | |
| Minimum Cubic feet per second Date | 26 Sept. 23, 1956 | 10 1925 - 26 | 3.4 Aug. 13, 1938 | 20 Sept. 14, 1955 | 320 Nov. 1917 | 320 Aug. 25, 1931 | 70 Aug. 25, 1931 | 162 Oct. 4, 1931 | 1,340 July 31, 1924 |
| Maximum Cubic feet per second Date | 7,420 Mar. 3, 1958 | 12,000 Dec. 21, 1955 | 6,090 Dec. 22, 1955 | 38,500 Dec. 22, 1955 | 122,000 Dec. 22, 1955 | 202,000 Dec. 22, 1955 | 84,000 Dec. 22, 1955 | 190,000 Dec. 22, 1955 | 425,000 Dec. 22, 1955 |



Left:
Town of Klamath
August 1962



Below:
Town of Klamath
December 1955



CHAPTER II. WATER USE

Water requirements in the Klamath River Hydrographic Unit are met almost entirely by diversion of surface runoff, however, a limited portion is supplied by ground water. A survey of facilities established for diversion of streamflow was made for this investigation. The results of the survey include diversion locations, descriptions of the facilities, uses, amounts of water diverted, and information on apparent water rights relating to diversions. Diversions of water for all purposes are reported, with the exception of those which involve less than approximately 10 acre-feet per season, such as individual domestic users.

Quantities of water diverted during 1958 were measured in order to further describe the diversion systems. The measured quantities do not necessarily represent average diversions, since in any single year the quantity diverted will be influenced by precipitation during the growing season and the available streamflow. As was shown in Table 3, 1958 was an unusually wet year in the Klamath River Hydrographic Unit. Considerations other than available water supply, such as economic factors, may also affect the relation of any diversion record to typical operating conditions. No attempt was made to assess these factors in this report. Generally, the diversion quantities reported are the actual amounts of water taken from the respective sources, and therefore include the recoverable and irrecoverable losses incidental to the primary use.

The location of water wells and the measurement of their production was not covered in this investigation. However, the areas of

lands irrigated by water from all sources, including underground sources, were determined in the land use survey described in Chapter III.

Community water service in the unit is provided in the following locations:

| <u>Location</u> | <u>Owner</u> | <u>Source</u> |
|-----------------|---------------------------------------|----------------------|
| Hamburg | Community of Hamburg | Mill Creek |
| Happy Camp | Happy Camp Improvement, Inc. | Elk Creek |
| Hilt | Fruit Growers Supply Co. | Hunts Creek |
| Hornbrook | Hornbrook Water Co. | Rancheria Creek |
| Orleans | Orleans Veneer and Lumber Co. | Sims Gulch |
| Sawyers Bar | Community of Sawyers Bar | N. Fork Salmon River |
| Scott Bar | Scott Bar Community Water Association | Bill Berry Gulch |

Rural domestic uses are supplied by individual domestic wells or diversion of surface waters.

Water Rights

Water rights are an important consideration in the determination of availability of waters which are surplus to the present and future needs of an area wherein the waters originate. Data were therefore obtained with respect to apparent water rights in connection with surface water diversions. These rights may be based on appropriative or riparian status and may have been defined by adjudication.

Water rights in Seiad Valley were adjudicated in 1949. The Seiad Creek Adjudication and the California law of water rights are described briefly in Appendix C.

Most of the water use in the unit is based on riparian rights or on appropriative rights established prior to 1914. As of June 30, 1960, a total of 247 currently active applications had been made in the unit under provisions of the Water Commission Act of 1914. Permits or licenses had been granted for 234 of these applications and 13 were incomplete. All the applications are tabulated in Table C-1, Appendix C, page C-12.

Surface Water Diversions

During the survey an attempt was made to locate and obtain data with respect to all diversions of more than 10 acre-feet per year. The locations of these diversions were plotted on aerial photographs having a scale of about 1:20,000. All diversions in use in 1958, as well as those which had been used within the preceding five years, were included. The date of last use of discontinued diversions was recorded, if known. Direct diversions, as well as those involving significant surface storage were located. All reservoirs which had surface areas of about three acres or more were mapped. Three acres was considered the minimum size which could be delineated on the aerial photographs used. Reservoirs located along and operated in conjunction with canals and ditches are shown on the land and water use maps, but are not considered as separate systems and are not assigned location numbers. Similarly, supplies obtained from small intermittent streams intercepted by canal systems are not classed as separate diversions.



Gravity Diversion From
Beaver Creek

Pumping Installation,
Klamath River, Orleans
Veneer and Lumber Co.



In some situations water users have made efficient use of water supply by rediverting field runoff or spill collected from their own upstream diversion systems. In this investigation, such points of rediversion are neither located on the maps nor assigned numbers. However, if return flow from another water user's operation is rediverted, or if there is doubt as to the origin of the water, the diversion is delineated and assigned a number. Diversion systems of water companies or groups of water users are considered as single units and individual customer distribution points are not shown on the maps.

There were 279 surface water diversions located in the unit in 1958. These diversions are classified by primary use as follows:

| <u>Primary use</u> | <u>Number of diversions</u> |
|---------------------------|-----------------------------|
| Irrigation | 217 |
| Municipal | 4 |
| Industrial (lumber mills) | 10 |
| Mining | 17 |
| Power | 19 |
| Domestic | <u>12</u> |
| Total diversions located | 279 |

Points of diversion and main canals or pipelines used to convey the water are delineated on the 36 sheets of Plate 2 entitled "Land and Water Use." The diversions are listed in Table 4.

Numbering System for Surface Water Diversions

Surface water diversions are numbered to indicate their location by township, range, and section within the federal land survey system.

In this report each section is subdivided into 40-acre plots, and the diversions are numbered within each of these 40-acre plots according to the order in which they were located. For example, diversion 17N/7E-34F1, which is shown on sheet 8 of Plate 2 as "34F1," is the first diversion located in the SE 1/4 of the NW 1/4 of Section 34 in Township 17 North, Range 7 East, Humboldt Base and Meridian (HB&M).

Descriptions of Surface Water Diversions

Description, history, and other information relating to surface water diversions were obtained by field inspection, by interview with water users or their representatives, and by reference to prior reports and official records. This information is contained in Table 4. Data in the table are arranged by diversion number within each subunit. Location of subunit boundaries is shown on Plate 1.

The purpose of each diversion, the quantity of water diverted during 1958, the extent of use such as the number of acres irrigated, and the method of application of water are included in Table 4. If the purpose listed is not the usual use for that diversion, notation is made in the remarks. The extent of domestic use is specified only when five or more connections are served. Stockwatering of less than 10 head of livestock is considered to be a domestic use. The extent of irrigation is based on the land use survey described in Chapter III.

The type of water right under which the respective diversions are considered to be made is indicated in Table 4 as the "apparent water right." The determination of this item is based upon the best information obtained from the owner, from the files of the State Water Rights Board, from official records, and from other sources.

The amount of the right, if established and known, and a reference to the source of data are also included. Although this information is believed to be accurate, it is emphasized that it is not based on sworn claims or testimony and should in no way be construed to represent a conclusive determination of water rights. In this report, references to the "miner's inch" are quoted from the water rights filings made prior to 1914. Since some of these filings specify the pressure of measurement and some do not, no standard rate of flow can be said to apply.

Diversions for which water rights have been adjudicated are listed in Table 4 as "adjudicated". Those based on appropriate rights are listed as "appropriative". Those which have been neither adjudicated nor based on appropriations, but for which the area of use is apparently riparian to the streams or which the owner claims to be riparian are listed as "riparian". The areas of use for many of the diversions listed as adjudicated or appropriative are probably riparian to water sources, but no attempt was made in this investigation to make such determinations.

In the case of an adjudicated right, the amount of the decreed right is tabulated. For an appropriative right the amount tabulated is that found in the filing, in the application, or in the latest permit or license which may have been issued. The reference given for an appropriation initiated after the effective date of the Water Commission Act (1914) is the number of the application on file with the State Water Rights Board. For appropriations prior to 1914, the reference, if known, is the book and page number of the official county record in which the filing is recorded. Such filings were made in accordance with Sections 1410 and 1422 of the Civil Code as enacted in 1872, which preserved the

priority of a diligent appropriator from the time of filing and enabled him to prevail over a concurrent nonstatutory appropriator.

A detailed description of the diversion systems, including dams, pumps, and main conduits, as well as any special features, is presented in Table 4. The diversions are also classified as gravity, pump, and storage according to the following descriptions:

Gravity diversion - A system in which water is taken from its natural course at a diversion structure and conveyed by gravity through a canal or pipeline to the area of use. Such a diversion may have a reservoir on the stream but the capacity is small compared with the amount of water diverted and provides no significant carry-over storage from winter to summer.

Pump diversion - A system in which water is pumped from its natural course through a pipeline to the area of use or to a gravity conduit located at a higher elevation.

Storage diversion - A system consisting of or including a surface reservoir having significant carry-over storage within each season or from season to season.

Systems not exclusively of one of these basic types are listed as combinations of those types which best describe them.

The remarks specify such information as the names of former owners, changes of ownership since 1958, and further details explaining entries in the previous columns.

TABLE 4
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1957 | | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|--|---------------------------------------|--------------------------|-------------------------|----------------------------------|------------------------------|----------------------|--------|------------|---|--|---------|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| N D B & M 45N/9M-111 (Sheet 9) | Charles Coolie | Humbog Creek | Mining Domestic | Placer (a) | 100 | Riparian | — | 1955 | Gravity; rock and log dam with 0.1 mile of earth ditch. | Former owners: Tom Kelly, Franklin, Pherry. | |
| | | | | | | | | | | | |
| 45N/9M-10R1 (Sheet 1A) | L. B. Jacobson | Middle Fork Humbog Creek | Indust. Domestic Mining | Lumber mill (a) Placer | 94 | Approp. | 1 cfs | 1934 | Gravity; earth and rock dam 1 foot high, 5 feet long with 0.5 miles of earth ditch. | Former owners: Colson, Thrash, Johnston. | |
| | | | | | | | | | | | |
| 46N/7M-2A1 (Sheet 10) | Thomas M. Clyburn | Ash Creek | Mining | Placer | 299 | Approp. | 3 cfs | 1883 | Gravity; rock dam with 0.6 mile of earth ditch and flume. | Former owner: Nigger Boy Mine. | |
| | | | | | | | | | | | |
| 46N/7M-21D1 (Sheet 10) | T. C. Woods | Clear Creek | Irrig. Stock Domestic | 2 acres by flooding* 58 head (a) | 10 | Approp. | — | Prior 1914 | Gravity; earth and rock dam with 0.6 mile of earth ditch. | Former owner: Rose. Previously irrigated an additional 21 acres. | |
| | | | | | | | | | | | |
| 46N/9M-1A1 (Sheet 10) | Ema Pearl Freshour | Dutch Creek | Irrig. | 13 acres by flooding | 251 | Riparian | — | 1887 | Gravity; 0.5 mile of earth ditch. | Former owner: Joseph Freshour. | |
| | | | | | | | | | | | |
| 46N/9M-1F1 (Sheet 10) | Richard Freshour W. W. Rogers | Dutch Creek | Irrig. | 12 acres by flooding | 289 | Riparian | — | About 1858 | Gravity; rock and log dam 1 foot high, 25 feet long with 1.0 mile of earth ditch. | Former owners: Jim Ladd, Martin Knightwind, George Selford, Joe Clyburn. | |
| | | | | | | | | | | | |
| 46N/9M-2A1 (Sheet 10) | Joe Freshour | Lungrey Creek | Irrig. | (*) | 672* | Approp. | — | About 1850 | Gravity; rock and log dam 1 foot high, 6 feet long with 0.3 mile of earth ditch. | Amount diverted irrigated 26 acres jointly with 47N/9M-35K1. Previously irrigated an additional 2 acres. | |
| | | | | | | | | | | | |
| 46N/9M-2E1 (Sheet 10) | W. W. Rogers | Doggett Creek | Irrig. | 39 acres by flooding* | 364 | (c) | — | 1915 | Gravity; 0.9 mile of earth ditch. | Former owners: Lew Doggett, Culvar. Area is normally irrigated jointly with 46N/9M-3M2. | |
| | | | | | | | | | | | |
| 46N/9M-3K1 (Sheet 10) | Richard Jones Mason Meek Richard Pack | Doggett Creek | Irrig. | 89 acres by flooding | 850 | Approp. | — | About 1875 | Gravity; rock dam with 2.4 miles of earth ditch. | Former owners: Quigley, Western Sheep Company. | |
| | | | | | | | | | | | |
| 46N/9M-3M2 (Sheet 10) | W. W. Rogers | Doggett Creek | Irrig.* | (*) | None | (c) | — | About 1850 | Gravity; 0.2 mile of earth ditch. | Previously irrigated 39 acres jointly with 46N/9M-3E1. | |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plots 2, sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Amount diverted in acre-feet | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|--|--|------------------------|-------------------|-------------------------------------|------------------------------|----------------------|--------|-----------|--|---|--|
| | | | Purpose | Extent and method of use | | Type | Amount | Reference | | | |
| BEAVER CREEK SUBUNIT (Continued) | | | | | | | | | | | |
| M. D. B. & M. 46N/9W-72L (Sheet 10) | St. Francis Investment Co. | Klamath River | Irrig. | 7 acres by sprinkler | 27 | Riparian | -- | -- | 1955 | Pump; 7.5 hp. motor with 0.2 mile of 3-inch pipe. | |
| 46N/9W-10D1 (Sheet 10) | Richard Jones Mason Meek Richard Pack | Doggett Creek | Irrig. | 4.9 acres by sprinkler and flooding | 272 | Approp. | -- | -- | About 1875 | Gravity; rock dam with 0.3 mile of earth ditch. | Former owners: Wiegley, Western Sheep Company, Lichens |
| 46N/9W-10D2 (Sheet 10) | W. W. Rogers | Doggett Creek | Irrig. | 10 acres by flooding | 112 | (c) | -- | -- | About 1850 | Gravity; 0.2 mile of earth ditch. | |
| 46N/9W-10J1 (Sheet 10) | Carl W. Schedler | Klamath River | Irrig. | 10 acres by sprinkler | 10 | Riparian | -- | -- | Prior 1958 | Pump; diesel engine with 660 feet of 4-inch pipe. | Former owners: Henry J. and Minnie E. Barton, J. A. and Mary E. Wilborn, Carlinghouse. |
| 46N/9W-12J4 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Barkhouse Creek | Irrig. | 2 acres by flooding* | 606 | Approp. | -- | -- | Prior 1906 | Gravity; rock dam 2.5 feet high, 12 feet long with 0.6 mile of earth ditch. | Former owners: Walker, Tom McCawley, Tom Hegler. Amount diverted irrigated an additional 4.6 acres jointly with 47N/8W-31E1. |
| 46N/9W-13W1 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Barkhouse Creek | Irrig. | 2 acres by flooding | 100 | Riparian | -- | -- | About 1850 | Gravity; rock dam with 0.5 mile of earth ditch. | Former owners: Charles Humphrey, Lichens, Henry Barton, Edward Howard, Lang. |
| 46N/9W-13N2 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mabel M., and Merle R. Hegler | Barkhouse Creek | Irrig. | (*) | 1,670 | Riparian | -- | -- | Prior 1958 | Gravity; rock and log dam with 0.2 mile of earth ditch. | Former owners: Charles Humphrey, Lichens, Henry Barton, Edward Howard, Lang. Amount diverted irrigated 7 acres jointly with 46N/9W-24D1. |
| 46N/9W-16H1 (Sheet 10) | Bert C. Jackson | McKinney Creek | Irrig. | 21 acres by flooding and sprinkler | 818 | Riparian | -- | -- | About 1850 | Gravity; earth and rock dam with 0.9 mile of earth ditch. | Former owners: Andrew Jackson, Frank A. Jackson, Blanche E. Jackson. |
| 46N/9W-23J1 (Sheet 10) | Elmer and Frank Lang | Little Barkhouse Creek | Irrig. | 9 acres by flooding* | 220 | Riparian | -- | -- | 1911 | Gravity; rock and timber dam with 0.8 mile of earth ditch. | Previously irrigated an additional 4 acres. |
| 46N/9W-24D1 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Barkhouse Creek | Irrig. | 4 acres by flooding* | 70* | Riparian | -- | -- | Prior 1900 | Gravity; 0.6 mile of earth ditch. | Former owners: Howe Brothers, Harold Lang. Amount diverted irrigated an additional 7 acres jointly with 46N/9W-13N2. |
| 46N/9W-24E1 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Barkhouse Creek | Irrig. | 5 acres by flooding | 110 | Riparian | -- | -- | 1860 | Gravity; rock dam with 0.3 mile of earth ditch. | Former owners: Howe Brothers, Harold Lang. |

* See remarks.
 Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1938 | | Amount diverted in acre-feet | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|--|-----------------|---------------------|--------------------------|------------------------------|----------------------|--------|-----------|--|--|---|
| | | | Purpose | Estant and method of use | | Type | Amount | Reference | | | |
| BEAVER CREEK SUBUNIT (Continued) | | | | | | | | | | | |
| M. D. B. & M. 46N/94-2432 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Barkhouse Creek | Irrig. | 4 acres by flooding | 110 | Riparian | -- | -- | 1958 | Gravity; 0.2 mile of earth ditch. | |
| 46N/94-2431 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Grouse Creek | Irrig. | 4 acres by flooding | 30 | Riparian | -- | -- | About 1880 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owners: Howe Brothers, Harold Lang. |
| 46N/94-2432 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Grouse Creek | Irrig. | 3 acres by flooding | 20 | Riparian | -- | -- | About 1880 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owners: Eli Miller, Harold Lang, Larssen, Martin Lang, Edward H. Lang. |
| 46N/94-2431 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Grouse Creek | Irrig. | 8 acres by flooding | 99 | Riparian | -- | -- | Prior 1900 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owners: Howe Brothers, Harold Lang. |
| 46N/94-2431 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Grouse Creek | Irrig. | 12 acres by flooding | 90 | Riparian | -- | -- | About 1880 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owners: Howe Brothers, Harold Lang. |
| 46N/94-2541 (Sheet 10) | Circle Two Ranch Arthur A., Ida M., Mable M., and Merle R. Hegler | Grouse Creek | Irrig. | 7 acres by flooding | 30 | Riparian | -- | -- | About 1895 | Gravity; 0.7 mile of earth ditch. | Former owners: Howe Brothers |
| 46N/94-2681 (Sheet 10) | Elmer and Frank Lang | Barkhouse Creek | Irrig. | 6 acres by flooding | 272 | Riparian | -- | -- | Prior 1958 | Gravity; rock dam with 0.4 mile of earth ditch. | |
| 46N/94-2631 (Sheet 10) | Elmer and Frank Lang | Barkhouse Creek | Irrig. | 11 acres by flooding | 106 | Riparian | -- | -- | About 1950 | Gravity; rock and timber dam with 0.9 mile of earth ditch. | Former owners: Flanagan, Nelea Lang. |
| 46N/94-2681 (Sheet 10) | Kenneth H. Duncan | McKinney Creek | Domestic Mining* | (a) (b) | 132 | Riparian | -- | -- | 1864 | Gravity; rock dam with 0.2 mile of earth ditch. | Previously supplied a placer mine. |
| 46N/94-2681 (Sheet 10) | Virgil Robarte | McKinney Creek | Irrig.* | (c) | None | Riparian | -- | -- | 1864 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owner: Fred Jensen. Previously irrigated 6 acres. Area was dry-farmed in 1958. |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Pile 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|-----------------------------|--------------------------|------------------------------|--|-------------------------------|----------------------|---------------------|--|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acres-feet | Type | Amount | | | |
| BEAVER CREEK SUBUNIT (Continued) | | | | | | | | | | |
| M. D. B. & M. 4.6N/9W-33E1 (Sheet 10) | Virgil Roberts | West Fork McKinney Creek | Irrig. ^a | (a) | None | Approp. | -- | 1864 | Gravity; 0.4 mile of earth ditch. | Former owner: Fred Jensen. Previously supplemented 4.6N/9W-33E1. |
| 4.6N/9W-33F1 (Sheet 10) | Virgil Roberts | McKinney Creek | Irrig. | 23 acres by flooding ^a | 233 | Approp. | -- | 1864 | Gravity; 1.1 miles of earth ditch. | Former owner: Fred Jensen. Previously received supplemental supply from 4.6N/9W-33E1. |
| 4.6N/10W-23G1 (Sheet 9) | LeRoy Bagley ^a | Collins Creek | Irrig. Domestic | 4 acres by sprinkler ^a | Not meas. | Approp. | -- | About 1886 | Gravity; earth and rock dam with 0.3 mile of earth ditch and pipe. | Former owner: Dave Collins. Ownership changed to W. L. Holstein in 1959. |
| 4.7N/7W-31B1 (Sheet 6) | R. Jennings | Dutch Creek | Irrig. | 5 acres by flooding | Not meas. | Approp. | -- | Prior 1900 | Gravity; earth and rock dam with 0.2 mile of earth ditch. | Former owners: Western Sheasp Company, Mrs. Walter Freshour. |
| 4.7N/7W-31E1 (Sheet 6) | R. Jennings | Dutch Creek | Irrig. | 6 acres by flooding ^a | Not meas. | Approp. | -- | Prior 1900 | Gravity; earth and rock dam with 0.6 mile of earth ditch. | Former owners: Western Sheep Company, Mrs. Walter Freshour. Previously irrigated an additional 9 acres. |
| 4.7N/8W-19H1 (Sheet 6) | William W. Mallin | Beaver Creek | Irrig. Mining Domestic | 3 acres by flooding Pacer (a) | Not meas. | Riparian | -- | 1900 | Gravity; rock end timber dam 1 foot high, 15 feet long with 0.5 mile of earth ditch. | Former owners: Henry Barton, George Knight, Rufus Culp. |
| 4.7N/8W-30F1 (Sheet 6) | Walter B. Stockett | Buckhorn Gulch | Irrig. | 7 acres by flooding | Not meas. | (c) | -- | 1957 | Gravity; earth and rock dam with 4.2 miles of earth ditch. | |
| 4.7N/8W-31F1 (Sheet 6) | Quigley-Lichens Ditch | Beaver Creek | Irrig. Domestic | 54 acres by flooding and sprinkler ^a 18 connections | 3,307 ^a (38) | Approp. | 9.58 cfs 1.0 cfs | 1890 | Gravity; concrete dam 60 feet long with 5.4 miles of ditch. | Former owner: Tom Quigley. Previously irrigated an additional 1 acre. Amount diverted irrigated an additional 46 acres jointly with 4.6N/9W-13M1. Amount in parentheses is a 1959 measurement. A-2226 filled in name of L. L. and W. W. Lichens, W. W. Quigley, G. L. Edith, Alice, and C. O. Smith, A. R. Hegler, A-7282 filled in name of Walter and Nellie Shumlin. |
| 4.7N/8W-32H1 (Sheet 6) | Jesse R. DeAvilla | Miller Gulch | Irrig. Domestic | 3 acres by sprinkler ^a | Not meas. | Riparian | -- | 1952 | Gravity; earth and rock dam with 0.2 mile of 2-inch pipe. | Previously irrigated an additional 6 acres. |
| 4.7N/8W-35K1 (Sheet 6) | Joe Freshour | Lumgreys Creek | Irrig. Stock. | 50 head ^a | 804 ^a | Approp. | -- | 1891 | Gravity; rock dam with 1.5 miles of earth ditch. | Amount diverted irrigated 26 acres jointly with 4.6N/8W-24L. |

* See remarks.
 Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and Plets 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Description of diversion system | Remarks | |
|--|--|-------------------------|--------------------------------------|-------------------------------|------------------------------|----------|----------------------|--|---------------|---|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | Reference |
| <u>BEAVER CREEK SUBUNIT (Continued)</u> | | | | | | | | | | |
| <u>N. B. & M.</u> 47N/94-2H1 (Sheet 6) | Jesse R. DeVilla Lecha and Art Stanley | Beaver Creek | Irrig. ^a | (*) | None | Approp. | 2.36 cfe 1.09 cfe | A-1134 ^b A-4213 ^b | 1921 | Former owners: Antone DeVilla, Paul Dennis. Previously irrigated 28 acres. |
| <u>CECILVILLE SUBUNIT</u> | | | | | | | | | | |
| <u>N. B. & M.</u> 10W/83-31C1 (Sheet 30) | Minnie Carner Ted H. Flinn Julia Linderman | Knowothing Creek | Domestic Power | 9 connections 12 kw | 3,687 | Ispanian | -- | -- | 1938 | Former owner: Eyrd Linderman. Generating capacity of 4 powerplants on same system. |
| <u>N. B. & M.</u> 37N/104-4W1 (Sheet 36) | William S. Johnson | Big Bend Creek | Irrig. Stock | 17 acres by flooding -- | 160 | Ispanian | -- | -- | About 1870 | Former owner: Albert Peluca. |
| 37N/104-5D1 (Sheet 36) | Jordan Ditch E. W. Sawyer | Rush Creek | Irrig. Domestic Stock Power | (*) 20 head 3 kw | 1,791 ^a | Approp. | 0.55 cfe | A-9078 ^b | Prior 1900 | Former owners: Jordan, Keints, Louis J. Hoff. Amount diverted irrigated 65 acres jointly with 38W/104-3H1. |
| 37N/114-3N1 (Sheet 36) | Dennis Moody | Black Gulch | Irrig. Mining | 6 acres by flooding Placer | 67 ^a (655) | Approp. | -- | -- | Prior 1900 | Former owners: Summerville Mining Co., Walter Gillis, Lake. Received supplemental supply from 37N/114-9A1. Amount in parentheses is a 1959 measurement. |
| 37N/114-9A1 (Sheet 36) | Dennis Moody | Black Gulch | Irrig. Mining | (*) (*) | 12 ^a | Approp. | -- | -- | Prior 1900 | Former owners: Summerville Mining Co., Lake. Amount diverted supplemented 37N/114-3N1. |
| 37N/114-12N1 (Sheet 36) | Edward A. McGroom | South Fork Salmon River | Mining Domestic | Placer (a) | 5,050 | Approp. | -- | -- | Prior 1900 | Former owners: George Spooner, Fred Smith, Alexander Parkin, A. B. Farnsworth and Company. |
| 37N/114-13N1 (Sheet 36) | E. W. Sawyer | Blind Horse Creek | Power | 10 kw | 1,412 ^a | Approp. | 1.1 cfe | A-11032 ^b | Prior 1900 | Former owners: Steele Homestead, Barton. Amount diverted includes all water from 37N/114-23G1. |

^a See remarks.
^b Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of operation first use | Description of diversion system | Remarks |
|---|--|---|------------------------------|---------------------------------------|------------------------------|----------------------|---------|----------------------|---------------------------------------|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| CECILVILLE SUBUNIT (Continued) | | | | | | | | | | | |
| H. D. B. & M. 37N/11W-23G1 (Sheet 36) | E. W. Sawyer | Chins Creek | Power | (*) | (*) | (c) | -- | -- | Prior 1900 | Gravity; earth and log dam with 1.0 mile of earth ditch and natural channel. | Former owners: Steele Monstead, Barton. Amount diverted and extent of use reported under 37N/11W-13K1. |
| 38N/10W-32H1 (Sheet 34) | Quass Ditch John W. Quass | Alash Creek | Irrig. Stock. | (*) 20 head | 310* | Approp. | -- | -- | Prior 1900 | Gravity; log dam 5 feet high, 30 feet long with 3.5 miles of earth ditch. | Former owner: Lou Hill Mining Company. Amount diverted irrigated 63 acres jointly with 37N/10W-5D1. |
| 38N/11W-17L1 (Sheet 34) | United States Klamath National Forest. | Crawford Creek | Irrig. Domestic | 4 acres by flooding 20 persons | 269 | Riparian | -- | -- | Prior 1935 | Gravity; rock dam 6 feet high, 10 feet long with 0.5 mile of wood flume and earth ditch. | |
| 38N/11W-21A1 (Sheet 34) | Nestor A. Westover | East Fork of South Fork of Salmon River | Power | 1 kw | 2,661 | Approp. | -- | -- | Prior 1900 | Gravity; rock dam with 0.9 mile of earth ditch. | Former owners: Mathhavs, Francie George. |
| 38N/11W-29D1 (Sheet 34) | Shasta Mining Company | Crawford Creek | Irrig. Stock. | 7 acres by flooding 18 head | 327 | (c) | -- | -- | Prior 1914 | Gravity; log dam 3 feet high, 20 feet long with 0.6 mile of earth ditch. | Former owner: John McBroom. |
| 38N/11W-29Q1 (Sheet 34) | Olyn W. Gould | Cecil Creek | Power Domestic | 0.5 kw (a) | 196 | Approp. | 0.3 cfs | A-14941 ^b | 1952 | Gravity; rock dam with 0.3 mile of 4-inch pipe and flume. | |
| 38N/11W-30H1 (Sheet 34) | Mrs. John N. McBroom | Crawford Creek | Irrig. | 5 acres by flooding | 877 | Approp. | -- | -- | Prior 1900 | Gravity; log dam with 0.5 mile of earth ditch. | Former owners: Slightman. |
| 38N/11W-30K1 (Sheet 34) | Jack Boaz Clarence R. Nance | Timber Gulch | Mining Domestic | Placer (e) | 147 | Approp. | 2.0 cfs | A-11654 ^b | 1936 | Gravity; rock dam with 0.3 mile of earth ditch. | Former owners: Alphonso Pelant, Clarence S. Hurry. |
| 39N/10W-15E1 (Sheet 31) | Glen Thornton | Six Mile Creek | Mining | Placer | 967 | Riparian | -- | -- | About 1900 | Gravity; wood box with 0.4 mile of 11-inch and 10-inch pipe. | Former owners: Charlie Johnson, Ella Mathews. |
| 39N/10W-31D1 (Sheet 31) | Katherine C. George | East Fork of South Fork of Salmon River | Irrig. Mining Domestic | 27 acres by flooding Placer (a) | 1,991 | Approp. | -- | -- | Prior 1900 | Gravity; log dam 4 feet high, 20 feet long with 2.7 miles of wood flume and earth ditch. | Former owners: Thomas Henry George, George Brown, Clarence and Francis George. |

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TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of appraisal or first use | Description of diversion system | Remarks |
|---|------------------------------------|----------------------------|-------------------------------|-------------------------------------|------------------------------|----------------------|--------|---------------|--|--|---------|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| CECILVILLE SUBUNIT (Continued) | | | | | | | | | | | |
| H. D. B. & H. 39N/12W-1781 (Sheet 31) | George N. and Robert C. Godfrey | Negro Creek | Irrig. Stock. | 32 acres by sprinkler 30 head | 239 | Approp. | -- | 1892 | Gravity; earth dam with 200 feet of 7-inch pipe and 1.7 miles of earth ditch to a small reservoir. | | |
| 39N/12W-3111 (Sheet 31) | Robert R. Lord | Methodist Creek | Power* Domestic Mining* | (*) | None | Riparian | -- | Prior 1900 | Gravity; log dam 6 feet high, 43 feet long with 0.9 miles of serth ditch. | Former owners: Orcott, Doombs. Used for power, domestic, and mining purposes until 1955 when system was washed out by flood. System rebuilt in 1959. | |
| COPCO LAKE SUBUNIT | | | | | | | | | | | |
| 47N/4W-1C1 (Sheet 7) | F. L. and C. G. Lathrop | Tributary to Copco Lake | Irrig. | 15 acres by flooding | Not meas. | (c) | -- | Prior 1958 | -- | | |
| 47N/4W-2C1 (Sheet 7) | F. L. and C. G. Lathrop | Snackenburg Creek | Irrig. | 22 acres by flooding* | Not meas. | (c) | -- | Prior 1958 | -- | Area irrigated received supplemental supply from 48N/4W-3GJ1. | |
| 47N/4W-3W1 (Sheet 7) | E. G. Lemas | Deer Creek | Irrig. | (*) | 120* | Riparian | -- | 1943 | Gravity; earth dam with 300 feet of earth ditch. | Amount diverted irrigated 28 acres jointly with 47N/4W-9C1 (Hornbrook Subunit) | |
| 48N/3W-1A1 (Sheet 4) | Hessig Ranch | Klamath River | Irrig. | 101 acres by flooding | Not meas. | (c) | -- | Prior 1958 | -- | | |
| 48N/3W-1A2 (Sheet 4) | Hessig Ranch | Klamath River | Irrig. | 65 acres by flooding | Not meas. | (c) | -- | Prior 1958 | -- | | |
| 48N/3W-27A1 (Sheet 4) | R. J. Brown | Klamath River | Irrig. Stock. | 57 acres by flooding* | Not meas. | Approp. | -- | 1862 | Gravity; concrete dam 6 feet high, 8 feet long with 2.9 miles of earth ditch. | Previously irrigated an additional 9 acres. | |
| 48N/3W-3A1 (Sheet 4) | Hessig Ranch | Klamath River | Irrig. | 92 acres by flooding | Not meas. | (c) | -- | Prior 1958 | -- | | |

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TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Amount diverted in acre-feet | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|--|--|------------------------|-------------------|------------------------------------|------------------------------|----------------------|--------|-----------|--|---------------------------------|---|
| | | | Purpose | Extent and method of use | | Type | Amount | Reference | | | |
| <u>COPCO LAKE SUBUNIT (Continued)</u> | | | | | | | | | | | |
| U D E & H 48N/4W-35D1 (Sheet 4) | Hessig Ranch | Klamath River | Irrig. | 11 acres by flooding | Not meas. | (c) | -- | -- | Prior 1958 | -- | |
| 48N/4W-39D1 (Sheet 4) | California-Oregon Power Company | Fall Creek | Power | 2,200 kw. | Not meas. | (c) | -- | -- | 1906 | -- | Former owner: Slakiyou Power and Light Company. |
| 48N/4W-21C1 (Sheet 4) | Warren Tormay | West Fork Beaver Creek | Irrig. | 7 acres by flooding | 64 | Approp. | -- | -- | Prior 1917 | -- | Former owner: Manuel Cravell. |
| 48N/4W-29H1 (Sheet 4) | California-Oregon Power Company | Klamath River | Power Irrig. | 32,000 kw. 49 acres by flooding | Not meas. | (c) | -- | -- | 1925 | -- | Of area irrigated, 34 acres are located in Hornbrook Subunit. |
| 48N/4W-29F1 (Sheet 4) | Copco Lake California-Oregon Power Company | Klamath River | Power | 27,500 kw. | 1,923,118 | (c) | -- | -- | 1922 | -- | Gravity and storage; concrete dam 132 feet high, 415 feet long. |
| 48N/4W-33Q1 (Sheet 4) | J. Fugalar | Deer Creek | Irrig. | 12 acres by flooding* | Not meas. | Approp. | -- | -- | Prior 1880 | -- | Area irrigated received supplemental supply from 48N/4W-33RL. |
| 48N/4W-33R1 (Sheet 4) | J. Fugalar | Deer Creek | Irrig. | (*) | Not meas. | Approp. | -- | -- | Prior 1880 | -- | Amount diverted supplemented 48N/4W-33Q1. |
| 48N/4W-34J1 (Sheet 4) | F. L. and C. G. Lathrop | Parks Canyon | Irrig. | (*) | Not meas. | (c) | -- | -- | Prior 1958 | -- | Amount diverted supplemented 47N/4W-2C1. |
| 48N/4W-35F1 (Sheet 4) | F. L. and C. G. Lathrop | Snackenburg Creek | Irrig. | 18 acres by flooding | Not meas. | (c) | -- | -- | Prior 1958 | -- | |
| 48N/4W-36H1 (Sheet 4) | F. L. and C. G. Lathrop | Prairie Creek | Irrig. | 48 acres by flooding | Not meas. | (c) | -- | -- | Prior 1958 | -- | |

* See remarks. Information not available. For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Indicated date of application or first use | Description of diversion system | Remarks |
|---|--|-----------------------------------|-----------------------|--------------------------------|------------------------------|---------|----------|--|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | |
| COPCO LAKE SUBUNIT (Continued) | | | | | | | | | | |
| M D B & M 48N/4W-3511 (Sheet 4) | F. L. and C. G. Lathrop | Prairie Creek | Irrig. | 28 acres by flooding | Not meas. | (c) | -- | Prior 1958 | -- | |
| 48N/5W-25A1 (Sheet 4) | California-Oregon Power Company | Pall Creek | Irrig. | 13 acres by flooding | 40 | (c) | -- | Prior 1957 | Gravity; earth and rock dam with 1.2 miles of earth ditch. | Former owners: Roberts, Samuel C. Sloan. |
| HAPPY CAMP SUBUNIT | | | | | | | | | | |
| H B & M 16N/7E-1H1 (Sheet 12) | Earl K. Leo | Cade Creek | Domestic Irrig. | 9 connections (*) | Not meas. | Approp. | 0.37 cfs | 1923 | Pump; 3-hp motor with 0.3 mile of 2-inch pipe. | Former owner: Collins. Previously irrigated 3 acres. |
| 16N/7E-1J1 (Sheet 12) | Siskiyou Mills | Klamath River | Indust. | Lumber mill | 1,481 | (c) | -- | 1956 | Pump; 25-hp motor with 0.2 mile of 6- and 8-inch pipe. | |
| 16N/7E-2F1 (Sheet 12) | Keystone Ditch Siskiyou Mills Ireka Veneer | Spring tributary to Klamath River | Indust. Domestic | Lumber mill | 60 | (c) | -- | Prior 1955 | Gravity; 1.1 miles of earth ditch. | Former owners: Fox Valley, Head Lumber Company. |
| 16N/8E-17F1 (Sheet 12) | Prentiss C. Hale | Little Horse Creek | Irrig. Stock. | 17 acres by flooding 20 head | 240 | Approp. | -- | 1890 | Gravity; sand bag dam with 0.7 mile of earth ditch. | |
| 17N/6E-10E1 (8) | Mrs. Marion M. Kniffen | Cole Creek | Mining | Placer | 10 | Approp. | 1.0 cfs | 1932 | Gravity; earth and log dam with 0.1 mile of earth ditch. | Former owners: George Steiner, Gus Clingwald. |
| 17N/7E-4G1 (Sheet 8) | David M. Huey | East Fork Indian Creek | Irrig. Domestic Power | 8 acres by flooding (a) 8 for. | 1,144 | Approp. | 3.0 cfs | 1932 | Gravity; earth and rock dam with 1.1 miles of earth ditch. | |
| 17N/7E-4F1 (Sheet 8) | Paul G. Beck Charles Hockaday | East Fork Indian Creek | Irrig. Domestic | 4 acres by flooding (a) | 375 | Approp. | 0.12 cfs | 1941 | Gravity; log dam with 0.2 mile of earth ditch. | Former owner: Henry Fowler. |

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TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Description of diversion system | Remarks |
|--|-----------------------------|----------------------------------|-------------------|--------------------------------------|------------------------------|----------|------------------------|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | |
| HAPPY CAMP SUBUNIT (Continued) | | | | | | | | | |
| B. & H. 17N/7E-511 (Sheet 8) | Alice Sedro | Indian Creek | Irrig. | 6 acres by flooding | 111 | Approp. | -- | -- | Former owner: Cutler. |
| 17N/7E-751 (Sheet 8) | Elmer E. McMillans | Spring tributary to Indian Creek | Irrig. Domestic | 8 acres by sprinkler (a) | Not meas. | Approp. | 0.08 cfs | A-16120 ^b | Gravity; concrete box with 1,000 feet of 2-inch, 1.5-inch and 1-inch pipe. |
| 17N/7E-951 (Sheet 8) | Alice Sedro | East Fork Indian Creek | Irrig. Domestic | 16 acres by flooding (a) | 390 | Approp. | -- | -- | Gravity; log dam with 0.4 mile of earth ditch. |
| 17N/7E-952 (Sheet 8) | Lee C. Maddell | East Fork Indian Creek | Irrig. | 4 acres by flooding | 359 | Riparian | -- | -- | Former owners: John F. Ince, Frank Shearin. |
| 17N/7E-953 (Sheet 8) | Guy Head | East Fork Indian Creek | Irrig. | 53 acres by flooding* | 689 | Approp. | -- | -- | Former owners: Jack Ince, Harry Bryan. Area irrigated included supplemental supply from 17N/7E-954. |
| 17N/7E-954 (Sheet 8) | Guy Head | East Fork Indian Creek | Irrig. | (*) | 860* | Approp. | -- | -- | Former owners: Jack Ince, Harry Bryan. Amount diverted supplemented 17N/7E-953. |
| 17N/7E-15N1 (Sheet 8) | Thomas Hoberts | Luther Gulch | Irrig. Indust. | (*) (*) | (*) | Approp.* | 0.006 cfs 0.008 cfs | A-1445 ^b A-1445 ^b | Amount diverted and extent of use reported under 17N/7E-1612 water right filed in name of Frank Kanig and Thomas Hoberts. |
| 17N/7E-1611 (Sheet 8) | J. F. Sharp Lumber Company | Indian Creek | Indust. | Lumber mill | Not meas. | Riparian | -- | -- | Name changed from Yellow Fir Lumber Co. to J. F. Sharp Lumber Co. in 1958. |
| 17N/7E-1612 (Sheet 8) | Thomas Hoberts* | Indian Creek | Irrig. Indust. | 14 acres by flooding Plywood mill | 580* | (c) | -- | -- | Former owners: Fred Pine, Wright, Gray Eagle Mine. Other water user: Willamette Plywood Corp. Amount diverted includes all water from 17N/7E-15N1. |
| 17N/7E-16Q1 (Sheet 8) | Willamette Plywood Corp. | Spring tributary to Indian Creek | Indust. Domestic | Plywood mill 10 connections | Not meas. | Approp. | 0.10 cfs | A-1629 ^b | Gravity; wood box with 0.6 mile of 1.5-inch pipe. |

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TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Division name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|---------------------------------|----------------------------------|------------------------|---------------------------------------|------------------------------|----------|---------------------|--|---|---|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | |
| HAPPY CAMP SUBUNIT (Continued) | | | | | | | | | | |
| H. B. & M. 17N/7E-16R1 (Sheet 8) | Frank Attebery Alve Hockaday | Indian Creek | Irrig.* | (*) | None | Approp. | -- | -- | Gravity; earth and log dam with 1.7 miles of earth ditch. | Former owners: Charles Cole, Guy Head. Previously irrigated 10 acres. |
| 17N/7E-22B1 (Sheet 8) | Aubrey A. Hall | Tributary to Indian Creek | Domestic Stock. | 7 connections 11 head | 54 | (c) | -- | -- | Gravity; 1.4 miles of earth ditch. | Former owner: Jim Whitaker. |
| 17N/7E-26E1 (Sheet 8) | Aubrey A. Hall | Indian Creek | Irrig. | 10 acres by sprinkler | 11 | Riparian | -- | 1956 | Pump; 7.5 hp motor with 4-inch pipeline. | |
| 17N/7E-26F1 (Sheet 8) | Arthur Attebery | Slater Creek | Irrig. Domestic | 4 acres by flooding (a) | Not meas. | Approp. | 300 MI 300 MI | 1894 | Gravity; earth dam with 0.2 mile of earth ditch and wood flume. | Former owners: W. S. Hendrickson, Frank Luckert. |
| 17N/7E-27H1 (Sheet 8) | Charley Gernes C. I. Howard | Spring tributary to Indian Creek | Domestic | 15 connections | Not meas. | (c) | -- | 1948 | Gravity; concrete box with 1,200 feet of 3-inch and 2-inch pipe. | Former owner: John W. Woodcock. |
| 17N/7E-34F1 (Sheet 8) | Edward Head | Doolittle Creek | Irrig. Domestic | 12 acres by flooding (a) | 133 | Riparian | -- | 1885 | Gravity; earth and rock dam with 0.7 mile of earth ditch. | Former owners: Charles Swan, Glen Hill. |
| 17N/8E-17C1 (Sheet 8) | Mrs. Felix H. McGinnis | Thompson Creek | Irrig. Domestic | 7 acres by sprinkler 9 connections | Not meas. | Approp. | -- | Prior 1875 | Gravity; earth and rock dam, 3 feet high, 80 feet long with 1.4 miles of earth ditch. | Former owner: Sam Woods. |
| 18N/6E-25J1 (Sheet 1) | Duane H. Curry | Indian Creek | Mining Domestic Power | Flacer (a) 4 kw. | 670 | Approp. | 2.5 cfs 1.15 cfs | Prior 1900 | Gravity; log dam with 0.6 mile of earth ditch. | Former owner: Buckmaster. |
| 18N/7E-22B1 (Sheet 1) | W. H. Bassart | Swearington Gulch | Irrig. Domestic Stock. | 16 acres by flooding 15 head | 80 | Riparian | -- | 1860 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owners: Swearington, Ed Kamper. |
| H. B. & M. 46N/12W-30P1 (Sheet 9) | Holly Thomas | China Creek | Irrig. Domestic | 12 acres by flooding (a) | 56 | Approp. | -- | 1883 | Gravity; sand bag dam with 0.4 mile of earth ditch. | |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|----------------------------------|----------------------------|-------------------|-------------------------------|------------------------------|----------------------|---------|--|---|---|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | |
| H D B & H 47N/12W-3211 (Sheet 5) | R. T. Hamer* | Fort Goff Creek | Irrig. Mining | 4 acres by flooding Placer | 780 | Approp. | — | Prior 1880 | Gravity; concrete and log dam with 0.5 mile of earth ditch. | Former owners: Charles H. Bailey, Martin, Shulemar. Other water users: Colford, Henry, Leduc, Martin, Savage. |
| 47N/12W-32P1 (Sheet 5) | Chester H. Barton | Fort Goff Creek | Irrig. | 6 acres by flooding | 374 | Riparian | — | Prior 1880 | Gravity; rock dam 1 foot high, 30 feet long with 0.4 mile of earth ditch. | Former owner: Martin. |
| 46N/4W-15D1 (Sheet 11) | Etta O. Eneele | Parker Creek | Irrig. | (*) | (*) | Approp. | 5.0 cfs | 1915 | Gravity; earth and rock dam with 0.8 mile of earth ditch. | Former owners: Jerome and John Kuck. Amount diverted and extent of use reported under 46N/4W-15M1. |
| 46N/4W-15M1 (Sheet 11) | Etta O. Eneele | Bogus Creek | Irrig. | 305 acres by flooding* | 257* | Approp. | — | About 1870 | Gravity; earth and rock dam with 2.1 miles of earth ditch and 2.9 miles of natural stream channel to a storage reservoir. | Former owners: Diederich Kuck, Jerome and John Kuck. Amount diverted includes all water from 46N/4W-15D1. |
| 46N/4W-28A1 (Sheet 11) | R. W. Thomason* | North Branch Willow Creek | Irrig. | 35 acres by flooding | 151 | Riparian | — | About 1860 | Gravity; rock dam with 2.1 miles of earth ditch. | Former owners: Chandler, Coombs. Subsequent owner: Wm. J. Guardia. |
| 46N/4W-32A1 (Sheet 11) | Anthony J. Sylva | North Branch Willow Creek | Irrig.* | (*) | None | Riparian | — | Prior 1958 | Gravity; earth and rock dam with 0.4 mile of earth ditch. | Former owners: Southern Pacific Co. Irrigated 22 acres until 1956. |
| 46N/4W-32B1 (Sheet 11) | Anthony J. Sylva | Middle Branch Willow Creek | Irrig. | 7 acres by flooding* | Not meas. | Approp. | — | Prior 1958 | Gravity; 0.6 mile of 6-inch pipe. | Former owners: Manual Sylva, George I. Sylva. Previously irrigated an additional 5 acres. |
| 46N/4W-33D1 (Sheet 11) | Anthony J. Sylva | North Branch Willow Creek | Irrig. | 5 acres by flooding* | 68 | Approp. | — | Prior 1958 | Gravity; wood dam with 0.8 mile of earth ditch. | Former owners: Southern Pacific Co. Previously irrigated an additional 8 acres. |
| 46N/5W-511 (g) | Donald E. and Avelyn L. Fehlman* | Tributary to Willow Creek | Irrig.* | (*) | None | Approp. | 0.5 cfs | About 1950 | Pump; 15 hp motor with 0.1 mile of 4-inch pipe. | Former owners: Dickerson, Alanthorpe. Portable pump also used at 46N/5W-7A1. Previously irrigated 83 acres. |

** See Addendum to Hornbrook Subunit for diversions located after preliminary edition was published.

* See Remarks. Information not available.

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|------------------------------------|-------------------------------------|-------------------|-----------------------------------|------------------------------|----------------------|----------|----------------------|--|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | |
| M D B & M 46N/5W-7A1* (Sheet 11) | Donald E. and Avelyn L. Fehlman | Willow Creek | Irrig. Stock. | 20 acres by eprinkler 175 head | Not meas. | Approp. | 0.45 cfe | A-1734 ^b | About 1950 | Pump; 15 hp motor with 0.3 mile of 4-inch pipe. | Former owners: Dickerson, Alanthorp. Portable pump also used at 46N/5W-511. |
| 46N/5W-7H1* (Sheet 11) | Alan Williams | Willow Creek | Irrig. Stock. | 48 acres by eprinkler 50 head | Not meas. | Approp. | -- | -- | Prior 1900 | Pump; 15 hp engine with 0.5 mile of 3-inch pipe. | Former owner: Keggs. Portable pump location varies within 0.4 mile of location indicated. |
| 46N/5W-7J1 (Sheet 11) | Russell Frederick | Tributary to Willow Creek | Irrig. | 15 acres by eprinkler | 64 | Approp. | 0.76 cfe | A-17765 ^b | About 1918 | Gravity; earth dam with 0.2 mile of earth ditch. | Former owners: Browns, Noggles, Peter Buckley. |
| 46N/5W-22H (Sheet 11) | Benjamin H. Hager | Willow Creek | Irrig. | 381 acres by flooding | 1,041 | Riparian | -- | -- | Prior 1958 | Gravity; 4.0 miles of earth ditch and 0.4 mile of natural channel. | Former owners: Anton, Bryant, Clevenger. |
| 46N/5W-27A1 (Sheet 11) | Fred Reed* | Spring tributary to Willow Creek | Irrig. | (*) | Not meas. | Riparian | -- | -- | Prior 1958 | Gravity; 0.6 mile of earth ditch. | Ownership changed to Wealey Huges in 1959. Amount diverted supplemented 46N/5W-27E1. |
| 46N/5W-27F1 (Sheet 11) | Fred Reed* | Spring tributary to Willow Creek | Irrig. | 100 acres by flooding | Not meas. | (c) | -- | -- | 1957 | Gravity; earth dam 15 feet high, 400 feet long with earth ditch. | Ownership changed to Wealey Huges in 1959. Area irrigated received supplemental supply from 46N/5W-27A1. |
| 46N/5W-28R1 (Sheet 11) | Clarence Kuck | Spring tributary to Willow Creek | Irrig. | 26 acres by flooding | 20 | Approp. | 1.1 cfe | A-1664 ^b | 1956 | Gravity; eump with 0.4 mile of earth ditch. | Supplied a placer mine until 1957. |
| 46N/5W-6D1 (8) | Louis Ford | Printer Gulch | Mining* | (a) | None | Approp. | 0.75 cfe | A-12745 ^b | Prior 1900 | Gravity; 0.7 mile of earth ditch. | |
| 47N/4W-7J1 (Sheet 7) | Cheesbrough, W. E. Mckenzie | Cold Creek | Irrig. Stock. | 120 head | 368* | Approp. | -- | -- | Prior 1890 | Gravity; rock dam with 0.4 mile of earth ditch. | Former owner: George McCline, Sr.; George McCline. Amount diverted supplemented 47N/4W-18B3. |
| 47N/4W-8J1 (Sheet 7) | J. W. Edwards | Spring tributary to Iron Creek | Irrig. Stock. | 75 acres by flooding 20 head | Not meas. | Approp. | -- | -- | Prior 1910 | Gravity; earth and rock dam with 0.4 mile of earth ditch. | Former owner: Freeman. |

* See remarks.

-- Information not available.

For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and order Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|--|---|---------------------------------|------------------------------|---|------------------------------|----------|--------|--|--|---|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | |
| M D B & M 47N/4W-8Q1 (Sheet 7) | J. W. Edwards Cold Creek Ranch Ralph J. Oplize | Spring tributary to Iron Creek | Irrig. Stock. | 51 acres by flooding -- | Not meas. | Approp. | -- | Prior 1910 | Gravity; earth and rock dam with 0.8 mile of earth ditch. | Former owner: Freeman. |
| 47N/4W-9P1 (Sheet 7) | | Cold Creek | Irrig. | 187 acres by flooding | Not meas. | (c) | -- | Prior 1958 | -- | |
| 47N/4W-9Q1 (Sheet 7) | Silva-Litch Ditch E. O. Lemas Oliver A. and Floy M. Rosebush | Cold Creek | Irrig. Stock. Power | 108 acres by flooding* 125 head 1.6 kv. | 1,637* | Riparian | -- | Prior 1890 | Gravity; earth and rock dam with 5.8 miles of earth ditches. | Former owners: J. Silva Stewart. Area irrigated located in Copco Lake Subunit. Amount diverted irrigated an additional 28 acres jointly with 47N/4W-3M1 (Copco Lake Subunit). |
| 47N/4W-10R1 (Sheet 7) | James Ditch Dr. Vogole | Spring tributary to Bogus Creek | Irrig. Power | 362 acres by flooding* 200 head -- | 1,529* | Approp. | -- | Prior 1900 | Gravity; 0.2 mile of 18-inch pipe and 7.0 miles of earth ditch. | Former owners: Jones Bros., Bradley. Subsequent owner (1958): J. J. Pendley & Sons. Previously irrigated an additional 21 acres. Amount diverted irrigated an additional 6 acres jointly with 47N/5W-13Q1 which is normally irrigated by 47N/5W-13M1. |
| 47N/4W-10R2 (Sheet 7) | Elsie Bloomingcamp J. N. Foster | Spring tributary to Cold Creek | Irrig. Domestic Power | (e) (a) -- | 538* | Riparian | -- | About 1925 | Gravity; earth and rock dam with 1.1 miles of earth ditch. | Supplements 47N/4W-10R1 and -18M1 for use reported thereunder. |
| 47N/4W-10R3 (Sheet 7) | Chessbrough N. E. McKenzie | Spring tributary to Cold Creek | Irrig. Stock. Domestic | 101 acres by flooding* 120 head (a) | 830 | Approp. | -- | About 1897 | Gravity; earth and rock dam with 1.5 miles of earth ditch. | Former owners: George McCline, Sr., George McCline. Area irrigated received supplemental supply from 47N/4W-7Q1. |
| 47N/4W-10R4 (Sheet 7) | Chessbrough J. N. Foster N. E. McKenzie | Spring tributary to Cold Creek | Irrig. Stock. | 18 acres by flooding* 120 head | 482 | Approp. | -- | Prior 1890 | Gravity; 1.9 miles of earth ditch. | Former owners: George McCline, Sr., George McCline. Previously irrigated an additional 30 acres. |
| 47N/4W-10R1 (Sheet 7) | John B. Fitzgerald | Cold Creek | Irrig. Stock. Domestic | 34 acres by flooding* 90 head (a) | 766* | Approp. | -- | Prior 1880 | Gravity; earth and rock dam with 1.1 miles of earth ditch. | Former owner: White. Irrigated an additional 13 acres jointly with 47N/5W-13Q1. |
| (f) | Elsie Bloomingcamp J. N. Foster | Bogus Creek | Irrig. Stock. | 72 acres by flooding 160 head | 489 | Approp. | -- | Prior 1900 | Gravity; concrete dam 7 feet high, 20 feet long with 1.3 miles of earth ditch. | |
| (f) | J. N. Foster | Little Springs Canyon | Irrig. Stock. | 5 acres by flooding* 100 head | 452* | Riparian | -- | Prior 1900 | Gravity; 1.0 mile of earth ditch. | Former owners: Malloy, Hostnider, Bafitt, Boulder, Etscher. Portion of amount diverted supplements 47N/4W-20P1 for use reported thereunder. |

* See remarks.
 -- Information not available.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Amount diverted in acre-feet | Apparent water right | | | Indicated date of approval or first use | Description of diversion system | Remarks |
|---|---|----------------|---------------------------------|-----------------------------|------------------------------|----------------------|--------|-----------|---|---|--|
| | | | Purpose | Extent and method of use | | Type | Amount | Reference | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | |
| N D B & N 47N/5W-11J1 (Sheet 7) | John B. Fitzgerald | Bullhead Creek | Irrig. | 6 acres by flooding | Not meas. | Approp. | -- | -- | Prior 1880 | Gravity; earth and rock dam with 0.3 mile of earth ditch. | Former owners: Cheesbrough, White. |
| 47N/5W-11K1 (Sheet 7) | Mary Ann Quadros | Bullhead Creek | Irrig. ^a | (a) | None | Approp. | -- | -- | About 1917 | Gravity; timber dam with 0.8 mile of earth ditch. | Former owner: Joe Quadros. Previously irrigated 13 acres. |
| 47N/5W-12N1 (Sheet 7) | John B. Fitzgerald | Bullhead Creek | Irrig. | 32 acres by flooding | Not meas. | Approp. | -- | -- | Prior 1880 | Gravity; earth and rock dam with 0.7 mile of earth ditch. | Former owners: Cheesbrough, White. |
| 47N/5W-13G1 (Sheet 7) | L. F. Smud | Bogue Creek | Irrig. ^b Domestic | 10 acres by flooding (e) | 159 ^b | Approp. | -- | -- | Prior 1900 | Gravity; wood dam with 0.8 mile of earth ditch. | Former owner: C. White. Amount diverted irrigated an additional 6 acres jointly with 47N/4W-18B1, which is normally irrigated by 47N/5W-13M1, and another 13 acres jointly with 47N/4W-16E1. |
| 47N/5W-13M1 (Sheet 7) | D. B. O'Brian | Bogue Creek | Irrig. ^b | (e) | None | Aliparian | -- | -- | Prior 1930 | Gravity; concrete, earth and rock dam with 0.3 mile of earth ditch. | Former owner: Corminy. In 1938 the 6 acres normally irrigated by this diversion was irrigated by 47N/4W-18B1 and 47N/5W-13G1. |
| 47N/5W-14E1 (Sheet 7) | Jess and Nelson Franklin Mary Ann Quadros | Bogue Creek | Irrig. | 13 acres by flooding | Not meas. | Approp. | -- | -- | Prior 1885 | Gravity; wood dam with 0.7 mile of earth ditch. | Former owner: Lopes. |
| 47N/5W-16D1 (Sheet 7) | California-Oregon Power Company | Bogue Creek | Irrig. | 9 acres by sprinkler | 557 | Aliparian | -- | -- | Prior 1958 | Gravity; 0.5 mile of earth ditch. | Former owners: John Franklin, Black, Bell. |
| 47N/5W-17N1 (Sheet 7) | James Liskey | Klamath River | Irrig. | 12 acres by sprinkler | 10 | Aliparian | -- | -- | 1950 | Pump; 20 hp gas engine with 6-inch pipeline. | Former owner: Charles Liskey. |
| 47N/5W-19A1 (Sheet 7) | Lauran Paine | Klamath River | Irrig. | 3 acres by flooding | 19 | Aliparian | -- | -- | 1818 | Pump; electric motor with 0.2 mile of earth ditch. | Former owners: Diehl, Fred Moore, Manual Correll, Hershey Schollenberg. |
| 47N/5W-19J1 (Sheet 7) | Lauran Paine | Klamath River | Irrig. | 22 acres by flooding | 76 | Aliparian | -- | -- | Prior 1958 | Pump; 10 hp motor with 0.6 mile of earth ditch. | |

^a See remarks.
^b Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Amount diverted in acre-feet | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|--|--------------------|-------------------|---------------------------------|------------------------------|----------------------|-----------|----------------------|--|--|--|
| | | | Purpose | Extent and method of use | | Type | Amount | Reference | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | |
| M D B & M 47N/54-1921 (Sheet 7) | Kenneth Houston | Klamath River | Irrig. | 15 acres by flooding | 134 | Riparian | -- | -- | Prior 1958 | Pump; 10 hp motor with 85 feet of 11-inch pipe and 0.3 mile of earth ditch. | Former owners: Laird, Weyerhaeuser Realty Company, Louis Freitas. |
| 47N/54-2881 (Sheet 7) | S. B. Cairns | Little Bogus Creek | Irrig.* | (*) | None | Approp. | -- | -- | Prior 1914 | Gravity; earth and rock dam with 0.4 mile of earth ditch. | Former owner: Deesava. Previously irrigated 9 acres. |
| 47N/54-3001 (Sheet 7) | Lem Leroy Full | Klamath River | Irrig. | 18 acres by flooding | 94 | Riparian | -- | -- | Prior 1958 | Pump; 25 hp motor with 340 feet of 8-inch pipe to small reservoir and 0.3 mile of earth ditch. | Former owner: Horn. |
| 47N/54-681 (Sheet 6) | Louis Alfonso | Hutton Creek | Irrig. Stock. | 30 acres by flooding 60 head | Not meas. | Approp. | 0.008 cfs | A-11677 ^b | Prior 1940 | Gravity; rock, gravel and sand bag dam 1.5 feet high, 12 feet long with 60 feet of 10-inch pipe and 0.6 mile of earth ditch. | |
| 47N/54-721 (Sheet 6) | L. G. Robertson | Cottonwood Creek | Irrig. Stock. | 26 acres by flooding 30 head | 514 | (c) | -- | -- | Prior 1958 | Gravity; 0.8 mile of earth ditch. | Former owners: Greeves, Luke Lange. |
| 47N/54-1701 (Sheet 6) | Bill Rogers Alfred W. and C. F. Spearin | Cottonwood Creek | Irrig. Stock. | 17 acres by flooding 50 head | 227 | (c) | -- | -- | Prior 1958 | Gravity; rock, timber and sheet metal dam 6 feet high, 30 feet long with 50 feet of 24-inch pipe and 0.8 mile of earth ditch. | |
| (7) | | | | | | | | | | | |
| 47N/54-1701 (Sheet 6) | Ellis Ditch Bill Rogers Alfred W. and C. F. Spearin | Cottonwood Creek | Irrig. | 29 acres by flooding* | 1,157 | Approp. | -- | -- | 1869 | Gravity; rock and timber dam 3 feet high, 10 feet long with 2.4 miles of earth ditch. | Former owners: David Horn, Cordova. Previously irrigated an additional 5 acres. Irrigated an additional 19 acres jointly with 47N/54-2114. |
| (7) | | | | | | | | | | | |
| 47N/54-1701 (Sheet 6) | C. F. Spearin | Cottonwood Creek | Irrig. | 14 acres by flooding | 256 | Approp. | -- | -- | About 1965 | Gravity; timber dam 30 feet long with 0.3 mile of earth ditch. | Former owner: David Horn. |
| 47N/54-1821 (Sheet 6) | Bob Cummins | Ditch Creek | Irrig. | 6 acres by flooding | 26 | Riparian | -- | -- | Prior 1924 | Gravity; timber and sheet metal dam 2.5 feet high, 12 feet long with 45 feet of 6-inch pipe to 0.3 mile of wood flume and earth ditch. | Former owners: Fox, Sanders. |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plois 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Amount diverted in acre-feet | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|--|------------------|-------------------|----------------------------------|------------------------------|----------------------|--------|-----------|--|---|---|
| | | | Purpose | Extent and method of use | | Type | Amount | Reference | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | |
| M D B & M 47N/64-1821 (Sheet 6) | L. G. Robertson | Ditch Creek | Irrig. Stock. | 40 acres by flooding -- | 223 | (c) | -- | -- | Prior 1957 | Gravity; log and sheet metal dam 2 feet high, 8 feet long with 0.5 mile of earth ditch. | Former owners: Bill Smith, Greaves, Luke Lange. |
| 47N/64-1822 (Sheet 6) | L. G. Robertson | Ditch Creek. | Irrig. Stock. | 11 acres by flooding* 40 head | 79* (19)* | (c) | -- | -- | Prior 1958 | Gravity; rock dam with 0.5 mile of earth ditch. | Former owners: Creeves, Luke Lange. Portion of amount diverted supplemented 47N/64-17E1 for use listed thereunder. Amount in parentheses is a 1959 measurement. |
| (r) 47N/64-1921 (Sheet 6) | Elmer and Robert Julius | Rancheria Gulch | Irrig. | 12 acres by flooding* | 167 | (c) | -- | -- | Prior 1908 | Gravity; rock and timber dam with 0.6 mile of earth ditch. | Former owners: Strobeck, McCalley, Wegner, Bradley. Previously irrigated an additional 48 acres. |
| 47N/64-20E1 (Sheet 6) | Hornbrook Water Company | Rancheria Gulch | Municip. | 250 persons | 460 | Approp. | -- | -- | 1904 | Gravity; concrete dam 2 feet high, 12 feet long with 0.3 mile of pipe and earth ditch. | Former owner: Marshall Horn. |
| 47N/64-20E1 (Sheet 6) | Black Mountain * Ranch | Cottonwood Creek | Irrig. | 23 acres by flooding | 355 | Approp. | -- | -- | About 1850 | Gravity; rock and gravel dam 6 feet high, 40 feet long with 1.6 miles of earth ditch. | |
| 47N/64-21M1 (Sheet 6) | Black Mountain * Ranch Alfred W. Spearin | Cottonwood Creek | Irrig. | 21 acres by flooding* | 1,147* | (c) | -- | -- | Prior 1958 | Gravity; rock and gravel dam 6 feet high, 30 feet long with 1.7 miles of earth ditch. | Former owner: Marshall Horn. Amount diverted supplements 47N/64-27H1 for use reported thereunder. Irrigated an additional 19 acres jointly with 47N/64-17E1. |
| 47N/64-25M1 (Sheet 6) | Alfred A. Procteman | Klamath River | Irrig. Stock. | 40 acres by flooding 150 head | 199 | Riparian | -- | -- | About 1908 | Pump; 7.5 hp motor with 0.2 mile of 10-inch pipe and 0.6 mile of earth ditch. | Former owner: Marshall Horn. |
| 47N/64-25H1 (Sheet 6) | Alfred A. Procteman | Klamath River | Irrig. | 26 acres by flooding | 94 | Riparian | -- | -- | About 1908 | Pump; 7.5 hp motor with 0.2 mile of 8-inch pipe and 0.3 mile of earth ditch. | |
| 47N/64-27H1 (Sheet 6) | Black Mountain * Ranch | Klamath River | Irrig. | 249 acres by flooding* | 86* | Riparian | -- | -- | Prior 1958 | Pump; 25 hp motor with 1.3 miles of earth ditch. | Former owner: Marshall Horn. Amount diverted supplemented by 47N/64-21M1 and -27H2. |
| 47N/64-27H2 (Sheet 6) | Black Mountain * Ranch | Klamath River | Irrig. | (*) | 91* | Riparian | -- | -- | Prior 1958 | Pumps; two 15 hp motors with 1.0 mile of earth ditch. | Former owner: Marshall Horn. Amount diverted supplemented 47N/64-27H1. |

* See remarks.

-- Information not available.

For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|--|----------------------------|-------------------|---------------------------------------|------------------------------|----------------------|---------------------------------|------------|--|---|---------|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | |
| M. D. B. & M. 47N/6W-28C1 (Sheet 6) | Black Mountain* Ranch | Cottonwood Creek | Irrig. | 26 acres by flooding* | 229* | (c) | -- | About 1890 | Gravity; gravel dam with 1.0 mile of earth ditch. | Former owner: Marshall Horn. Portion of amount diverted supplemented 47N/6W-28F1 for use listed thereunder. | |
| (r) 47N/6W-29E1 (Sheet 6) | Fred Draggoo | Rocky Gulch | Irrig. Stock. | 56 acres by flooding* 15 head | 7 | (c) | -- | Prior 1958 | Gravity; earth and concrete dam with 0.2 mile of 12-inch pipe and 0.8 mile of earth ditch. | Area irrigated received supplemental supply from 47N/7W-24C1. | |
| 47N/6W-33D1 (Sheet 6) | George E. Callisach | Klamath River | Irrig. | 22 acres by flooding and sprinkler | 155 | Riparian | -- | About 1890 | Pumps; one 15 hp motor and one tractor powered, with 0.5 mile of earth ditch and pipeline. | Former owners: Central Pacific Railroad Company, William and Laura Lowe. | |
| 47N/6W-36A1 (Sheet 6) | Louie Freitas | Willow Creek | Irrig. Stock. | 14 acres by flooding* 75 head | 53 | Riparian | -- | Prior 1887 | Gravity; earth and rock dam with 0.5 mile of earth ditch. | Former owners: Bill Laird, Meyerhauser Healy Company. Previously irrigated an additional 5 acres. | |
| 47N/7W-1F1 (Sheet 6) | Cottonwood Irrigation and Mining Company | Cottonwood Creek | Irrig. | 268 acres by flooding* | 1,349* (137) | Approp. | -- | About 1867 | Gravity; rock dam with 5.3 miles of earth ditch. | Previously irrigated an additional 24 acres. Amount in parentheses is a 1959 measurement. Portion of amount diverted supplements 47N/6W-17N1. | |
| 47N/7W-1F2 (Sheet 6) | John Sylva | Cottonwood Creek | Irrig. Stock. | 11 acres by flooding 40 head | 136 | Riparian | -- | Prior 1901 | Gravity; timber dam 1 foot high, 20 feet long with 0.2 mile of earth ditch. | Former owners: Central Pacific Railroad Company, Samuel M. Clary, Charles T. Moore. | |
| 47N/7W-1G1 (Sheet 6) | Herman Kurt | Cottonwood Creek | Irrig. Stock. | 31 acres by flooding 100 head | 424 | (c) | -- | Prior 1918 | Gravity; timber dam 1.5 feet high, 25 feet long with 0.3 mile of earth ditch. | Former owners: Sam Clary, Jess Wilkes. | |
| 47N/7W-4H1 (Sheet 6) | Fruit Growers Supply Company | Bogard Gulch | Municip. | (*) | Not meas. | (c) | -- | 1911 | Gravity; timber dam 8 feet high, 45 feet long with approximately 4.0 miles of 4- and 6- inch pipe. | Supplies community of Hill. | |
| 47N/7W-5G1 (Sheet 6) | Walter Wreden* | West Fork Cottonwood Creek | Irrig. | 47 acres by flooding | Not meas. | Riparian | -- | Prior 1923 | Gravity; log dam 3 feet high, 15 feet long with 1.5 miles of earth ditch and wood flume. | Former owner: Reginald Parsons. Ownership changed to H. C. Watson in 1959. | |
| 47N/7W-12H1 (Sheet 6) | S. D. Haworth | Moore Gulch | Irrig. | (*) | 25* | Approp. | 0.50 cfs A-3697 ^b | 1909 | Gravity; rock and gravel dam with 0.4 mile of earth ditch. | Former owners: Marion Cummins, Swartz, Dely. Amount diverted irrigated 13 acres jointly with 47N/7W-12H2. | |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of operation or first use | Description of diversion system | Remarks |
|--|---------------------------------|----------------------------|---------------------|-----------------------------------|---------------------------|----------------------|----------|---------------------|--|--|---|
| | | | Purpose | Extent and method of use | Amount diverted acre-feet | Type | Amount | Reference | | | |
| <u>HORN BROOK SUBUNIT (Continued)</u> | | | | | | | | | | | |
| <u>H. D. B. & M.</u> 47N/7W-12C2 (Sheet 6) | S. D. Haworth | Moore Gulch | Irrig. | (*) | 32 | * Approp. | 0.50 cfs | A-3697 ^b | 1909 | Gravity; rock and gravel dam with 0.2 mile of earth ditch. | Former owners: Marion Cummine, Swartz, Daly. Amount diverted irrigated 13 acres jointly with 47N/7W-12B1. |
| 47N/7W-24C1 (Sheet 6) | Fred Draggoo Allen Jeepsen | Ditch Creek | Irrig. Stock. | 103 acres by flooding 200 head | 828* | * Approp. | -- | -- | Prior 1914 | Gravity; rock dam with 4.2 miles of earth ditch. | Former owners: Bray, Carl Cummine, Cummine. Previously irrigated an additional 41 acres. Portion of amount diverted supplemented 47N/6W-29E1. |
| 48N/5W-21N1 (Sheet 4) | Don Madero | Camp Creek | Irrig. | 27 acres by flooding | 64 | Riparian | -- | -- | About 1889 | Gravity; 1.5 miles of earth ditch. | Former owner: Thomas J. Wright. |
| 48N/6W-31R1 (Sheet 3) | Lawrence Lemos | Hutton Creek | Irrig. | 11 acres by flooding | 166 | Riparian | -- | -- | About 1872 | Gravity; rock and gravel dam with 0.5 mile of earth ditch. | Former owners: Manuel and Mary Crovell, Elvee and Gileon. |
| 48N/6W-32R1 (Sheet 3) | Lawrence Lemos | Hutton Creek | Irrig. Stock. | 40 acres by flooding 150 head | 191 | Riparian | -- | -- | About 1872 | Gravity; rock and gravel dam with 1.4 miles of earth ditch. | Former owners: Manuel and Mary Crovell, Elvee and Gileon. |
| 48N/7W-15C1 (Sheet 3) | F. L. Burne | Whiskey Creek | Irrig. Stock. | 47 acres by flooding 250 head | 388 | Riparian | -- | -- | About 1861 | Gravity; earth dam with 0.2 mile of earth ditch. | Former owners: Rufus Cole, William J. Bray, E. W. Sawyer. |
| 48N/7W-15C2 (Sheet 3) | F. L. Burne | Cottonwood Creek | Irrig. | 67 acres by flooding* | 829 | (c) | -- | -- | 1862 | Gravity; earth dam with 1.2 miles of earth ditch. | Former owner: Rufus Cole. Area irrigated received supplemental supply from 48N/7W-15D1. |
| 48N/7W-15D1 (Sheet 3) | F. L. Burne | Spaulding Creek | Irrig. | 10 acres by flooding* | 315 | * Riparian | -- | -- | Prior 1890 | Gravity; earth and rock dam with 0.5 mile of earth ditch. | Former owners: Rufus Cole, Smith, E. W. Sawyer. Portion of amount diverted supplemented 48N/7W-15C2. |
| 48N/7W-21C1 (Sheet 3) | F. L. Burne | Spaulding Creek | Irrig. Stock. | 15 acres by flooding 100 head | 304 | Riparian | -- | -- | Prior 1890 | Gravity; earth and rock dam with 1.7 miles of earth ditch. | Former owners: Rufus Cole, Smith, E. W. Sawyer. |
| 48N/7W-28E1 (Sheet 3) | Fruit Growers Supply Company | Hunte Creek | Indust. Municip. | Lumber mill (*) | Not meas.* | (c) | -- | -- | 1911 | Gravity; timber dam 10 feet high, 35 feet long with approximately 1.6 miles of 10-inch pipe. | Amount diverted supplemented 47N/7W-4M1. Supplies community of Hilt. |
| 48N/7W-34F1 (Sheet 3) | Walter Wreden | West Fork Cottonwood Creek | Irrig. Stock. | 36 acres by flooding 40 head | 738 | (c) | -- | -- | Prior 1955 | Gravity; rock dam with 1.0 mile of earth ditch. | Former owner: Reginald Parsons. |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plots 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | | Amount diverted in acres-feet | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|-----------------------------|------------------------------------|--------------------|-------------------------------|-----------|-------------------------------|----------------------|---|------------|---|---|---------|
| | | | Purpose | Extent and method of use | Amount | | Type | Amount | Reference | | | |
| H B & H 10W/4E-32C1 (Sheet 29) | William Bow | Burrill Creek | Irrig. | (*) | 280* | (c) | -- | -- | Prior 1850 | Gravity; rock dam with 0.6 mile of earth ditch. | Former owners: William Burrill, Martha Cooper. Normally irrigates 46 acres jointly with 10W/4E-32E1, but only 34 acres received irrigation in 1958. | |
| 10W/4E-32E1 (Sheet 29) | Sam Jones | Springs tributary to Burrill Creek | Power | 5 kw. | 495 | (c) | -- | -- | Prior 1900 | Gravity; 10-inch pipe in waterfall with 0.4 mile of earth ditch and 8-inch pipe. | | |
| 10W/4E-32F1 (Sheet 29) | Homer Cooper | Burrill Creek | Irrig. Power | (*) 5 kw. | 576* | Approp. | -- | -- | About 1850 | Gravity; rock dam with 0.3 mile of earth ditch and 8- and 6-inch pipe. | Former owners: William Burrill, Martha Cooper. Normally irrigates 46 acres jointly with 10W/4E-32E1, but only 34 acres received irrigation in 1958. | |
| 13W/1E-15D1 (Sheet 20) | Siamson Lumber Company | Klamath River | Indust. | Lumber mill | 21.2 | (c) | -- | -- | 1955 | Pump; electric motor with short 8-inch pipe. | Former owner: Robinet Wood Products. | |
| 14W/1E-20K1 (Sheet 17) | Roy Thompson | Tributary to Pacific Ocean | Domestic | 6 connections | Not meas. | (c) | -- | -- | 1954 | Gravity; concrete dam with 400 feet of pipe to storage tanks. | | |
| 14W/1E-28N1 (Sheet 17) | A. L. Chaffey | Branch Creek | Irrig. | 6 acres by flooding | Not meas. | Approp. | 0.14 cfs | A-645 ^b | Prior 1952 | Pump; 5 hp motor with 50 feet of 6-inch pipe. | Former owners: Russell, deed. | |
| 14W/1E-33R1 (Sheet 17) | United States Air Force | High Prairies Creek | Domestic | 120 persons | 16 | Approp. | 0.0178 cfs | A-1384 ^{2b} | 1950 | Pumps; 30 hp motor and 2-20 hp motors with 2.3 miles of 3- and 2-inch pipe. | | |
| 10W/7E-2C1 (Sheet 30) | Homer H. Bennett | Crapo Creek | Irrig. Power | 5 acres by flooding; 3 kw. | 717 | Approp. | -- | -- | Prior 1900 | Gravity; log dam 6 feet high, 25 feet long with 0.6 mile of earth ditch, 300 feet of wood flume and 140 feet of 11-inch pipe. | | |
| 10W/7E-4F1 (Sheet 30) | Leo and Rose L. Brown | Hammel Creek | Irrig. Power | 10 acres by flooding 2 kw. | 1,241 | Approp. | 0.62 cfs 2.00 cfs | A-527 ^b A-814 ^{8b} | 1917 | Gravity; wood dam 3 feet high, 40 feet long with 0.5 mile of earth ditch and 300 feet of 11-inch pipe. | Former owners: Arthur Johnson, L. H. Thomas. | |
| 11W/7E-19H1 (Sheet 27) | Ivan Charles John Martin | Butler Creek | Irrig. Domestic | 10 acres by flooding (a) | 414 | Approp. | -- | -- | About 1860 | Gravity; log dam 3 feet high, 30 feet long with 600 feet of wood flume and 0.3 mile of earth ditch. | Former owner: Butler. | |

* See remarks. Information not available. For lettered footnotes, see last page of table.

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 ¹ | | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|---------------------------------------|-------------------------|--------------------------------|-------------------------------|------------------------------|----------------------|--------------------|--|--|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| <u>H. B. & M.</u> 11N/7E-35FL (Sheet 27) | Aubrey Y. Crispe | Crapo Creek | Mining | Placer | 1,774 | Approp. | 14.7 cfs | A-9054 ^b | Prior 1900 | Gravity; log dam 10 feet high, 30 feet long with 0.6 mile of earth ditch, 1,000 feet of wood flume and 250 feet of 15-inch pipe. | Former owners: John Bennett, F. M. Shider, Andrew Green. |
| <u>H. D. B. & M.</u> 39N/11W-281 (Sheet 31) | P. H. Buchalla Frank J. Hartnett | Whiteas Gulch | Mining | Placer | 3,652 | Approp. | -- | -- | Prior 1900 | Gravity; log dam 15 feet high, 50 feet long with 1.3 miles of earth ditch and wood flume. | Former owners: Sam Finley, Meyers and Holehour. |
| 39N/11W-4Q1 (g) | Gene Thomain | Live Yankee Creek | Mining | (*) | (*) | Approp. | -- | -- | Prior 1900 | Gravity; short earth ditch. | Former owner: C. F. Thomain. Amount diverted and extent of use reported under 39N/11W-981. |
| 39N/11W-981 (Sheet 31) | Gene Thomain | East Fork Eddy Gulch | Mining | Placer | 4,113* | Approp. | -- | -- | Prior 1900 | Gravity; rock and log dam with 0.1 mile of earth ditch and 950 feet of 15- and 12-inch pipe. | Former owner: C. F. Thomain. Amount diverted includes all water from 39N/11W-4Q1. |
| 40N/11W-13J1 (Sheet 28) | Doug Eastlick | North Fork Salmon River | Indust. Domestic | Lumber mill 6 connections* | 700 | Approp. | -- | -- | About 1900 | Gravity; log dam 10 feet high, 50 feet long with 600 feet of 20-inch pipe and 0.5 mile of earth ditch. | Former owners: Finley, John NaFrami. Supplies forest service camp. |
| 40N/11W-28FL (Sheet 28) | Community of Sawyers Bar | North Fork Salmon River | Municip. | 40 connections | 1,795 | Approp. | -- | -- | Prior 1900 | Gravity; log dam 6 feet high, 100 feet long with 1.0 mile of earth ditch. | Former owner: Patricia Golden, Chris Berry, George Black. |
| 40N/11W-32EL (Sheet 28) | United States Klamath National Forest | Jessups Gulch | Power Domestic | 2.5 kw. (a) | 239 | Approp. | 0.317 cfs | A-11123 ^b | 1937 | Gravity; concrete dam 10 feet high, 15 feet long with 0.9 mile of earth ditch. | Former owner: Jos Finley. |
| 40N/11W-33FL (Sheet 28) | Patricia Judge | Eddy Creek | Mining | Placer | 675 | Approp. | 3.0 cfs 3.0 cfs | A-4053 ^b A-5816 ^b | About 1880 | Gravity; log dam 8 feet high, 27 feet long with 1.0 mile of earth ditch. | |
| 40N/12W-13J1 (Sheet 28) | John Ahlgren | Little North Fork | Irrig. Stock. | 9 acres by flooding | 201 | Riparian | -- | -- | About 1890 | Gravity; rock dam with 0.2 mile of earth ditch. | |
| 40N/12W-28FL (Sheet 28) | William D. Segaser | Oleen Creek | Mining Power | Placer 1 kw. | 2,570 | Approp. | 25 cfs | A-9659 ^b | About 1880 | Gravity; 0.5 mile of earth ditch to a regulatory reservoir. | Former owner: Martin Oleen. |
| 40N/12W-32C1 (Sheet 28) | Richard T. Bend1 | Big Creek | Power Mining* | 5 kw. (*) | 319 | Approp. | 3 cfs | A-11476 ^b | 1935 | Gravity; rock dam with 0.3 mile of earth ditch and 8-inch pipe. | Previously supplied a placer mine. |

* See remarks.

-- Information not available.

For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|--|---|------------------|---------------------------------------|--|---------------------------|----------|--------------------------------|--|--|--|
| | | | Purpose | Extent and method of use | Amount diverted acre-feet | Type | Amount | | | |
| SCOTT BAR SUBUNIT | | | | | | | | | | |
| N O B & M 44N/11W-291 (Sheet 16) | William Faulkner | McCarthy Creek | Irrig. | 13 acres by sprinkler | Not meas. | Riparian | -- | Prior 1958 | Gravity; rock and timber dam with 0.6 mile of earth ditch and pipe. | Former owner: Elinor S. Gillespie. |
| 44N/11W-2K1 (Sheet 16) | Mrs. George Reeves | Scott River | Irrig. | 7 acres by sprinkler | Not meas. | Riparian | -- | 1952 | Pump; 3 hp motor with 24.0 feet of 3-inch pipe. | Former owners: McCarthy, Kelle. |
| 44N/11W-3M1 (Sheet 16) | R. S. Smith | Tompkins Creek | Irrig. Domestic Power Stock. | 13 acres by flooding (a) 15 kw. 18 head | Not meas. | Riparian | -- | 1878 | Gravity; rock dam 1.5 feet high, 40 feet long with 0.6 miles of earth ditch. | Former owners: Thompson, Kleaver. |
| 44N/11W-8R1 (Sheet 16) | Gus Kleaver | Middle Creek | Irrig. Domestic Power | 8 acres by flooding 10 connections About 7.5 kw. | Not meas. | (c) | -- | About 1940 | Gravity; rock and log dam with 1.1 miles of earth ditch and 8-inch pipe. | |
| 44N/11W-20R1 (Sheet 16) | United States Klamath National Forest | Kelsey Creek | Domestic Power | 20 connections 30 kw. | Not meas. | Approp. | 1.2 cfs A-1206 ^b | 1936 | Gravity; earth, gravel and log dam with 1.0 mile of earth ditch. | Former owner: Kelsey Creek Improvement Association. |
| 44N/11W-27K1 (Sheet 16) | Brasil and Zella Price | Boulder Creek | Power | 35 kw. | Not meas. | Approp. | 2.0 cfs A-8219 ^b | About 1935 | Gravity; rock dam with 0.1 mile of 8-inch pipe. | Former owner: Livesey. |
| 45N/10W-15R1 (Sheet 13) | Harry Krupa E. U. Novdehs George Skillems | Mill Creek | Irrig. Domestic | 6 acres by flooding (a) | 434 | Riparian | -- | About 1870 | Gravity; rock dam with 0.6 mile of earth ditch. | Former owners: Le Duc, Lighthill, Litchfield. |
| 45N/10W-21E1 (Sheet 13) | Scott Bar Community Water Association | Bill Berry Gulch | Irrig. Domestic | 18 acres by flooding 40 persons | 606 | Approp. | -- | About 1867 | Gravity; rock dam with 0.3 miles of earth ditch. | Former owners: Reynolds Estate, Nesbett Association. |
| 45N/10W-22O1 (Sheet 13) | Scott Bar Mining Company Joseph Fournier | Mill Creek | Irrig. Mining | 6 acres by flooding Ore mill | Not meas. | Approp. | -- | Prior 1890 | Gravity; rock dam with 0.4 miles of earth ditch. | |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Division name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|----------------------------|----------------|-------------------|---------------------------------|------------------------------|----------------------|--------|------------|--|---|---------|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| H. D. B. & H. 46N/10W-2N1 (Sheet 9) | V. B. Ward | Buckhorn Creek | Irrig. Stock. | 7 acres by flooding | 712 | Riparian | -- | Prior 1880 | Gravity; rock dam with 0.6 mile of earth ditch. | Former owner: Cooney. | |
| | V. B. Ward | Buckhorn Creek | Irrig. | 11 acres by flooding | 286 | Riparian | -- | Prior 1880 | Gravity; rock and timber dam with 0.5 mile of earth ditch. | Former owner: Cooney. | |
| | Asa Robinson | Middle Creek | Irrig. | 7 acres by flooding | 169 | Riparian | -- | Prior 1900 | Gravity; rock dam with 0.5 mile of earth ditch. | Former owners: Ike Gearheart, Jack O'Neil, Gilletrom. | |
| | Asa Robinson | Middle Creek | Irrig. | 18 acres by flooding | 146 | Riparian | -- | Prior 1900 | Gravity; rock and timber dam with 0.6 mile of earth ditch. | Former owners: Ike Gearheart, Jack O'Neil, Gilletrom. | |
| | Asa Robinson | Middle Creek | Irrig. | 28 acres by flooding | 302 | Riparian | -- | Prior 1900 | Gravity; rock dam with 0.5 mile of earth ditch. | Former owners: Ike Gearheart, Jack O'Neil, Gilletrom. | |
| | A. A. Morgan | Horse Creek | Irrig. | 19 acres by flooding | 361 | Riparian | -- | About 1860 | Gravity; 0.6 mile of earth ditch. | Former owners: Nathan L. Morgan, W. D. Morgan. | |
| | Fred Rainey | Horse Creek | Irrig. | 45 acres by flooding | 765 | Riparian | -- | Prior 1890 | Gravity; rock dam with 0.9 mile of earth ditch. | Former owners: W. Lichen, James Rainey, Charles Rainey. | |
| | V. B. Ward | Buckhorn Creek | Irrig. | 7 acres by flooding | 247 | Riparian | -- | Prior 1880 | Gravity; log dam with 0.3 mile of earth ditch. | Former owner: Cooney. | |
| | C. Robert Rainey | Buckhorn Creek | Irrig. Stock. | 11 acres by flooding 75 head | 153 | Approp. | -- | Prior 1890 | Gravity; earth and rock dam with 0.2 mile of earth ditch. | Former owners: Conrad Lichen, Lichen Bros., Frank Coffin, John Syre, Larson and Harms Dredging Company, Charles W. Rainey. | |
| | C. Robert Rainey | Buckhorn Creek | Irrig. | 59 acres by flooding | 675 | Approp. | -- | Prior 1890 | Gravity; earth and rock dam with 0.6 miles of earth ditch. | Former owners: McCain and Dickens, Conrad Lichen, Lichen Bros., Frank Coffin, Larson and Harms Dredging Company, Charles W. Rainey. | |

* See remarks.
-- Information not available.
For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or sheet number | Division name and/or owner | Source | Water use in 1958 | | Apparent water right | | Indicated date of appropriation or first use | Description of diversion system | Remarks | |
|--|--------------------------------------|------------------------------------|----------------------|---|------------------------------|----------|--|---------------------------------|---|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | | | | Amount |
| SEIAD VALLEY SUBUNIT (Continued) | | | | | | | | | | |
| M D B & M 46N/10W-15Q1 (Sheet 9) | Chester H. Barton | Klamath River | Irrig.* | (*) | None | Riparian | --- | 1956 | Pump; gasoline engine with 240 feet of 3-inch pipe. | Previously irrigated 14 acres. Area was dry farmed in 1958. |
| 46N/10W-16J1 (Sheet 9) | Leon Handley | Spring tributary to Buckhorn Creek | Indust. | Lumber mill | 2,202 | (c) | --- | Prior 1958 | Gravity; 0.3 mile of earth ditch. | |
| 46N/10W-21Q1 (Sheet 9) | John M. Pickens | Everill Creek | Irrig. | 8 acres by flooding | 124 | Riparian | --- | Prior 1958 | Gravity; 0.4 mile of earth ditch. | Former owners: John T. Everill, Richard Everill. |
| 46N/11W-5B1 (Sheet 9) | W. W. Robinson, Jr. | Seiad Creek | Irrig. Stock. | 9 acres by flooding 20 head | 439 | Adjud. | 0.30 cfs | Prior 1947 | Gravity; rock and log dam with 0.4 mile of earth ditch. | Former owners: Chase, M. W. Robinson, Sr. |
| 46N/11W-5F1 (Sheet 9) | R. G. Priddy | Seiad Creek | Irrig. Stock. | 20 acres by flooding 65 head | 242 | Adjud. | 0.06 cfs 1.20 cfs | Prior 1870 | Gravity; rock and log dam with 0.8 mile of earth ditch. | Former owners: B. Maaney, Shadburne. Previously irrigated an additional 6 acres. |
| 46N/11W-6Q1 (Sheet 9) | Stanley P. Schwartz | Canyon Creek | Irrig. Stock. | 17 acres by flooding 65 head | 76 | Adjud. | 0.50 cfs | Prior 1900 | Gravity; rock dam with 0.8 mile of earth ditch. | Former owner: B. Maaney. |
| 46N/11W-6Q1 (Sheet 9) | Stanley P. Schwartz | Seiad Creek | Irrig. Stock. Mining | 12 acres by flooding 65 head Placer | 388 | Adjud. | 1.20 cfs | Prior 1900 | Gravity; rock dam with 0.2 mile of earth ditch. | Former owner: Phillips. Area irrigated received supplemental supply from 46N/11W-7D2 until 1955. |
| 46N/11W-7D1 (Sheet 9) | Stanley P. Schwartz W. O. Simming | Darkey Creek | Irrig. | 15 acres by flooding | 16 | Adjud. | 1.20 cfs | Prior 1880 | Gravity; earth and rock dam with 0.1 mile of earth ditch. | Former owner: Phillips. Supplemented 46N/11W-7D1 until 1955 when diversion was washed out by flood waters. |
| 46N/11W-7D2 (Sheet 9) | Stanley P. Schwartz W. O. Simming | Seiad Creek | Irrig.* | (*) | None | Adjud. | 1.20 cfs | Prior 1880 | Gravity; earth and rock dam 1 foot high, 8 feet long with 0.6 mile of earth ditch and wood flume. | Former owner: Phillips. Supplemented 46N/11W-7D1 until 1955 when diversion was washed out by flood waters. |
| 46N/11W-18E1 (Sheet 9) | H. C. Hammon | Walker Creek | Irrig. Domestic | 3 acres by flooding (*) | 341 | Approp. | 0.67 cfs | Prior 1890 | Gravity; concrete and rock dam with 1.0 mile of earth ditch. | Previously irrigated an additional 10 acres. |

* See remarks.
 - Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or plots 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Amount diverted in acres-feet | Apparent water right | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|---|----------------|-----------------------------|---|-------------------------------|----------------------|----------|--|--|--|
| | | | Purpose | Extent and method of use | | Type | Amount | | | |
| SEIAD VALLEY SUBUNIT (Continued) | | | | | | | | | | |
| M. D. B. & H. 46N/11W-28A1 (Sheet 9) | O'Neill Creek Ditch Nole Roblee* | O'Neill Creek | Irrig. Domestic | 11 acres by flooding (a) | 374 | Approp. | -- | Prior 1900 | Gravity; earth and rock dam with 0.2 mile of 12-inch pipe and 1.0 mile of earth ditch. | Former owners: Caulkins, Merrill. Other water users: Bud Calvin, A. H. Haas, Harbor, Frank Marlow, Art Price and Charles Rice. |
| 46N/11W-35Q1 (Sheet 9) | Hamburg Ditch Community of Hamburg | Mill Creek | Irrig. Domestic | 9 acres by flooding 40 perenn | 529 | Approp. | -- | Prior 1880 | Gravity; wood flume with 1.4 miles of earth ditch. | Former owners: Ed Brown, Sarah Totten. |
| 46N/11W-36R1 (Sheet 9) | Kate Martin Rose R. McCulley | Macke Creek | Irrig. | 6 acres by flooding | 145 | Approp. | -- | 1856 | Gravity; earth and rock dam with 0.4 mile of earth ditch. | Former owners: Milligan and McCrary, Mrs. Tom Martin. |
| 46N/12W-12F1 (Sheet 9) | Fred Jensen | Seiad Creek | Irrig. Stock. | 27 acres by flooding 60 head | 480 | Adjud. | 2.70 cfe | About 1880 | Gravity; fish screen weir with 180 feet of pipe and 0.4 mile of earth ditch. | Former owner: Reeves. |
| 46N/12W-12H1 (Sheet 9) | Loy Conrad Fred Jensen | Seiad Creek | Irrig. Stock. | 25 acres by flooding 14 head | 898 | Adjud. | 0.90 cfe | About 1880 | Gravity; rock dam with 1.4 miles of earth ditch. | Former owner: Phillips. |
| 46N/12W-14C1 (Sheet 9) | Grider Creek Club | Grider Creek | Irrig. Stock. | (*) | 194 | Riparian | -- | About 1875 | Gravity; earth and rock dam with 0.2 mile of earth ditch. | Former owner: Grider. Amount diverted irrigated 31 acres jointly with 46N/12W-14E1. |
| 46N/12W-14E1 (Sheet 9) | Grider Creek Club | Grider Creek | Irrig. | (*) | 632 | Approp. | -- | About 1875 | Gravity; earth and rock dam with 0.5 mile of earth ditch. | Former owner: Grider. Amount diverted irrigated 31 acres jointly with 46N/12W-14C1. |
| 46N/12W-14N1 (Sheet 9) | J. Eyer Norman Valpey | Grider Creek | Irrig. Induet. Stock. | 26 acres by flooding Lumber mill 80 head | 1,906 | Approp. | -- | Prior 1898 | Gravity; fish screen weir with 0.9 mile of earth ditch. | Former owner: Grider. |
| 47N/10W-25F1 (Sheet 5) | Benjamin F. Maplesden St. Francis Invest- ment Company | Buckhorn Creek | Irrig. Stock. Mining | 89 acres by flooding and sprinkler* 10 head Flacer | 323 | Approp. | -- | Prior 1900 | Gravity; rock dam with 3.6 miles of earth ditch, 1.7 miles of natural channel and 0.5 mile of 8-, 6-, and 4-inch pipe. | Former owner: C. Barton. Area irrigated is located in Beaver Creek Subunit. |
| 47N/11W-32J1 (Sheet 5) | W. W. Robinson, Jr. | Seiad Creek | Irrig.* | (*) | None | Approp. | 0.3 cfe | 1943 | Gravity; log dam with 0.4 mile of earth ditch. | Former owner: Chase. Previously irrigated 3 acres. |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|-----------------------------|------------------------------------|-----------------------------|--|------------------------------|----------|--------|--|---|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | |
| H. E. & H. 12N/6E-10F1 (g) | P. P. Dietz | Springs tributary to Klamath River | Domestic Power | (a) 1.2 kw. | 37 | (c) | — | 1920 | Gravity; rock dam with 0.1 mile of earth ditch and 1,000 feet of 6-, and 2-inch pipe. | Former owner: Jack Forman. |
| 12N/6E-28M1 (Sheet 2A) | Luther Hickox | Toneyok Creek | Mining Power | Placer* 5.5 kw. | 586 | Approp. | — | Prior 1914 | Gravity; rock dam and wood headworks with 800 feet of 18-inch pipe. | Former owners: Ward, Toneyok, Hall. Received supplemental supply from 12N/6E-28M1 and an unnamed stream which enters above sluice box. |
| 12N/6E-28N1 (Sheet 2A) | Luther Hickox | Natuket Creek | Mining | (*) | 3,336* | (c) | — | 1958 | Gravity; rock dam with 0.2 mile of earth ditch. | Amount diverted supplemented 12N/6E-28M1. |
| 12N/6E-34J1 (Sheet 2A) | Melissa Langford | Merrill Creek | Power Domestic | 5 kw. (a) | 257 | Approp. | — | About 1850 | Gravity; log dam 6 feet high, 30 feet long with 1.7 miles of earth ditch. | Former owner: Andy Merrill. |
| 13N/7E-5H1 (Sheet 2L) | J. B. Ephraim | Tributary to Kennedy Creek | Power | 3 kw. | 144 | Riparian | — | 1950 | Gravity; short wood flume to 450 feet of 6-inch pipe. | Former owner: James. |
| 13N/6E-33G1 (Sheet 2L) | L. H. Hayco | Stanshaw Creek | Irrig. Domestic Stock Power | 19 acre by flooding 5 connections 20 head 6 kw. | 362 | Riparian | — | About 1800 | Gravity; rock and earth dam with D.7 mile of earth ditch. | Former owner: McHertree. |
| 13N/6E-33M1 (Sheet 2L) | Stanshaw Mineo | Stanshaw Creek | Power Domestic | (e) | 40 | Approp. | — | About 1890 | Gravity; board dam 2 feet high, 8 feet long with 120 feet of 12- and 5-inch pipe. | Former owners: Stanshaw Mining Company, Fontana. |
| 15N/7E-13B1 (Sheet 15) | W. E. Lemon | Malone Creek | Power | 5 kw. | 269* | Riparian | — | 1952 | Gravity; rock and earth dam with 0.5 mile of earth ditch and 250 feet of 5-inch pipe. | Amount diverted supplemented 15N/7E-13G1. |
| 15N/7E-13G1 (Sheet 15) | W. E. Lemon | Elk Creek | Irrig. Domestic | 21 acre by flooding* | 304 | Riparian | — | About 1906 | Gravity; 0.4 mile of earth ditch. | Former owner: Malone. Area irrigated received supplemental supply from 15N/7E-13B1. |
| 15N/6E-29K1 (Sheet 15) | Rose Y. Kennedy | Stansaw Creek | Irrig. Domestic | 7 acre by flooding (a) | 400 | Approp. | — | 1876 | Gravity; earth and rock dam 1 foot high, 8 feet long with 0.2 mile of earth ditch. | Former owners: Fields, Dave Custer. |

* See remarks.
 Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or Plate 2 sheet number | Diversion name and/or owner | Source | Water use in 1958 | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|--|-------------------------------------|---|--|------------------------------|----------|--|--|--|--|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | | | |
| SOMES BAR SUBUNIT (Continued) | | | | | | | | | | |
| H. B. & M. 16N/7E-9PL (Sheet 12) | Hugh Wright | Little Grider Creek | Irrig. Stock Mining | 57 acres by flooding and sprinkler* 80 head (*) | Not meas. | Approp. | -- | 1875 | Gravity; concrete dam 10 feet high, 40 feet long with 1.4 miles of earth ditch. | Former owners: Grider, Davis. Area irrigated received supplemental supply from 16N/7E-15PL and 16N/7E-16HL. Previously supplied a placer mine. |
| 16N/7E-14ML (Sheet 12) | Happy Camp Improvement, Inc. | Elk Creek | Municip. | 800 persons | 299 | Approp. | 1 cfs 2 cfs 1 cfs A-8139 ^b A-1042 ^b A-1293 ^b | 1956 | Pumps; two 20 hp motors with 1.5 miles of 6- and 10-inch pipe. | |
| 16N/7E-14ML (Sheet 12) | Dorothy Hill | Elk Creek | Irrig.* | (*) | Nons | Approp. | -- | Prior 1900 | Gravity; log dam with 0.6 mile of earth ditch. | Former owners: Euffman, High, McKee Co., Glen Hill. Irrigated 15 acres until 1955. |
| 16N/7E-15FL (Sheet 12) | Hugh Wright | Springs tributary to Klamath River | Irrig. Stock. | (*) -- | Not meas.* | Approp. | 0.15 cfs A-9102 ^b | About 1875 | Gravity; concrete dam 20 feet high, 20 feet long with 0.2 mile of 4-inch pipe and earth ditch. | Former owners: Grider, Davis, Diessen. Amount diverted supplemented 16N/7E-9PL. |
| 16N/7E-16HL (Sheet 12) | Hugh Wright | Springs tributary to Klamath River | Irrig. Domestic | (*) | Not meas.* | Approp. | 0.13 cfs A-9096 ^b | About 1875 | Gravity; 0.1 mile of earth ditch. | Former owners: Grider, Davis, Diessen. Amount diverted supplemented 16N/7E-9PL. |
| 16N/8E-22B1 (Sheet 12) | L. R. Smith | East Fork | Domestic Mining Flour Power 1 kw. | (a) | 1,275 | Approp. | -- | About 1900 | Gravity; 0.4 mile of earth ditch. | Former owners: Welch, Burke. |
| WEITCHPEC SUBUNIT | | | | | | | | | | |
| 11N/5E-25J1 (Sheet 27) | Orleans Venser and Lumber Company | Sims Gulch | Domestic | 63 connections | Not meas. | (c) | -- | 1955 | Gravity; concrete dam 2 feet high, 20 feet long with 0.5 mile of 2-inch pipe. | |
| 11N/6E-20FL (Sheet 27) | Larry Knudsen | Wilson Creek | Irrig. Stock. | 7 acres by flooding 13 head | Not meas. | Riparian | -- | About 1858 | Gravity; rock dam with 0.2 mile of wood flume. | Former owners: Hans Lawton, Harns Knudsen, Walter Knudsen. |
| 11N/6E-20J1 (Sheet 27) | Agnes Boreas | Springs tributary to Whitmore Creek | Power | 0.8 kw. | 33 | Riparian | -- | Prior 1947 | Gravity; 0.2 mile of wood flume, penstock and 6-inch pipe. | Former owner: Bill Adams. |
| 11N/6E-21FL (Sheet 27) | United States Six Rivers National Forest | Whitmore Creek | Power | 10 kw. | 345 | Approp. | 0.8 cfs A-11692 ^b | 1946 | Gravity; 0.2 mile of wood flume, penstock and 6-inch pipe. | Former owners: Edward Laughlin, Antone Shoennauffer, Wallace, Williams. |
| 11N/6E-31ML (Sheet 27) | Orleans Venser and Lumber Company | Klamath River | Indust. | Lumber mill | 3,530 | (c) | -- | 1955 | Pumps; two diesel engines with 0.3 mile of 14-inch pipe. | |

* See remarks.
 -- Information not available.
 For lettered footnotes, see last page of table.

TABLE 4 (Continued)
 DESCRIPTIONS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT

| Location number and/or plot number | Diversion name and/or owner | Source | Water use in 1958 | | | Apparent water right | | | Indicated date of appropriation or first use | Description of diversion system | Remarks |
|---|--|---------------------------------|-------------------|-----------------------------------|------------------------------|----------------------|------------------------|----------------------|--|--|---|
| | | | Purpose | Extent and method of use | Amount diverted in acre-feet | Type | Amount | Reference | | | |
| WEITCHPEC SUBUNIT (Continued) | | | | | | | | | | | |
| 11N/6E-32A1 (Sheet 27) | Roy McGain | Perch Creek | Domestic Power | 20 persons 75 kw. | 1,224* | Riparian | -- | -- | 1899 | Gravity; rock dam 2 feet high, 3 feet long with 4,280 feet of wood flume and 8-inch pipe | Former owners: John A. Peareh, P. L. Young. Amount diverted includes all water from 11N/6E-32A2. |
| 11N/6E-32A2 (Sheet 27) | Roy McGain | Tributary to Perch Creek | Domestic Power | (e) -- | (*) | Riparian | -- | -- | 1899 | Gravity; rock dam with wood flume. | Former owners: John A. Peareh, P. L. Young. Amount diverted and extent of use reported under 11N/6E-32A1. |
| 11N/6E-32B1 (Sheet 27) | United States Six Rivers National Forest | Spring tributary to Perch Creek | Domestic | (e) | Not Meas. | Approp. | 0.019 cfs 0.006 cfs | A-13942 ^b | 1950 | Gravity; concrete dam 4 feet high, 30 feet long with 100 feet of 2-inch pipe. | |
| WOOLEY CREEK SUBUNIT | | | | | | | | | | | |
| (No diversions located in this subunit) | | | | | | | | | | | |
| ADDENDUM TO HORN BROOK SUBUNIT | | | | | | | | | | | |
| 47N/4W-18J1 (Sheet 7) | J. N. Foster | Bogus Creek | Irrig. | 69 acres by flooding* | Not Meas. | Riparian | -- | -- | 1890 | Gravity; concrete dam 6 feet high, 14 feet long with 0.6 miles of earth ditch. | Supplemented by 47N/4W-18B2. |
| 47N/4W-18K1 (Sheet 7) | J. N. Foster | Bogus Creek | Irrig. | 23 acres by flooding* | Not Meas. | Riparian | -- | -- | 1890 | Gravity; concrete dam 4 feet high, 14 feet long with 0.4 miles of earth ditch. | Supplemented by 47N/4W-18B2. |
| 47N/4W-20M1 (Sheet 7) | J. N. Foster | Bogus Creek | Irrig. Stock | 23 acres by flooding* 200 head | Not Meas. | Riparian | -- | -- | 1890 | Gravity; wood dam 2 feet high, 20 feet long with 1.5 miles of earth ditch. | Supplemented by 47N/4W-20P1. |
| 47N/6W-17E1 (Sheet 6) | G. M. Grieb | Ditch Creek | Irrig. | 17 acres by flooding* | Not Meas. | Riparian | -- | -- | 1864 | Gravity; earth dam 4 feet high, 20 feet long with 0.1 mile of earth ditch. | Former owner: Spearin. Supplemented by 47N/6W-17E2 and -18D2. |
| 47N/6W-17E2 (Sheet 6) | G. M. Grieb | Ditch Creek | Irrig. | (*) | Not Meas. | Riparian | -- | -- | 1864 | Gravity; direct diversion to a short earth ditch. | Former owner: Spearin. Supplemented by 47N/6W-17E1 for use listed thereunder. |
| 47N/6W-17N1 (Sheet 6) | G. M. Grieb | Buffalo Creek | Irrig. | 13 acres by flooding* | Not Meas. | Riparian | -- | -- | about 1864 | Gravity; earth dam 3 feet high, 15 feet long with 0.2 mile of earth ditch. | Former owner: Spearin. Supplemented by 48N/7W-1F1 |
| 47N/6W-18J1 (Sheet 6) | G. M. Grieb | Tributary to Cottonwood Creek | Irrig. | 33 acres. | Not Meas. | Riparian | -- | -- | 1864 | Gravity; 0.3 mile of earth ditch. | Former owner: Spearin. Previously irrigated an additional 12 acres. |
| 47N/6W-28F1 (Sheet 6) | Black Mountain Ranch | Cottonwood Creek | Irrig. | 31 acres by flooding* | Not Meas. | Riparian | -- | -- | -- | Gravity; 0.7 mile earth ditch. | Former owner: Marshall Horn. Supplemented by 47N/6W-28G1. |
| 48N/7W-22B1 (Sheet 3) | Eomer C. Watson | Cottonwood Creek | Irrig. | 7 acres by flooding | Not Meas. | Riparian | -- | -- | 1864 | Gravity; 0.5 mile of earth ditch. | Former owner: Reginald Parson. |

e See Remarks.
 -- Information not available.

d Domestic use by less than 5 families or connections.

e See Idaho County Records.

c Insufficient information to determine type of water right.

Records of Surface Water Diversions

Periodic or continuous measurements of surface water diversions were made by the Department of Water Resources during 1958, whenever it was feasible to measure the flows. Substantially all diversion measurements were started by April 1958, prior to the commencement of intensive irrigation, and continued through the irrigation season. Some of the diversions were not located until late in the survey and no measurements or estimates of these were attempted. When feasible, the measurement of a diversion was made at a location above the area of first use and as close to the diversion intake as possible, but below any regulatory spill.

The total amount of water diverted at the 192 diversions for which measurements are reported was about 2,033,000 acre-feet of which 62,300 acre-feet were for irrigation, 1,933,200 acre-feet for power production, 1,500 acre-feet for domestic, 25,200 acre-feet for mining, 2,500 acre-feet for municipal purposes, and 8,300 acre-feet for industrial uses.

Of the 148 irrigation diversions measured during 1958, the records at 135 were judged to be sufficiently complete during the major portion of the irrigation season, April through September, to evaluate irrigation practices. During this period, approximately 43,200 acre-feet were diverted for irrigation of about 4,300 acres, at an overall rate of 10 acre-feet per acre. The average seasonal diversion rates of individual diversion systems varied from less than one to more than 170 acre-feet per acre. These figures included minor domestic and stockwatering uses in conjunction with irrigation.

Diverted quantities were determined by measurement of open channel flow and testing of pumps. Periodic current meter measurement of open channel flows were made during the diversion season to obtain channel ratings. The water stage was recorded either by weekly observations of staff gage or with continuous recorder, from which quantities of flow were calculated. Pumps were similarly rated and quantities of flow were calculated from operation or power records. Power records were obtained for COPCO No. 1 Powerplant, from which quantities of flow were computed.

The results of the diversion measurements are summarized in Table 5. Monthly quantities diverted are shown for each diversion if the record was sufficiently reliable. If the record for a diversion was incomplete or missing, one of the following notations was used:

| | |
|-----------------|---|
| "---*---" | monthly quantities unreliable, total estimated |
| superscript "e" | monthly quantity with 10 days or more estimated |
| "--NR--" | period for which no record was obtained |

Index to Surface Water Diversions

For convenience of the reader, an alphabetical index of diversion owners or diversion names, along with the subunit location of each diversion and references to the sheet number of Plate 2 and page numbers of the text or appendixes on which data concerning each appear, is shown in Table 6, page 79.

TABLE 5
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---|---|---|----------------------------------|--|-------------------------------|-----|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----|-----------------|---------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| APLEGATE RIVER SUBUNIT | | | | | | | | | | | | | | | | | | |
| (No diversions located in this subunit) | | | | | | | | | | | | | | | | | | |
| BEAVER CREEK SUBUNIT | | | | | | | | | | | | | | | | | | |
| 45N/84-111 | Charles Coole | Mining Domestic | 0.1 mile below intake | Staff gage and depth-flow relationship | NR | | | | | 12 | 13 | 12 | 16 | 15 | 21 | 11 | 100 | |
| 45N/84-109L | L. S. Jacobson | Industrial Mining | 0.2 mile below intake | Staff gage and depth-flow relationship | NR | | | | | 11 ^a | 13 | 17 | 12 | 13 | 14 | 14 | 94 | |
| 46N/74-2A1 | Thomas N. Clyburn | Mining | 0.1 mile below intake | Staff gage and depth-flow relationship | NR | | | | 80 ^b | 83 | 45 | 12 | 14 | 9 | 20 | 36 | 299 | |
| 46N/74-21D1 | T. C. Woods | Irrigation Stockwatering Domestic | --- | Estimate | NR | | | | | | | | | | | | 10 | |
| 46N/84-1A1 | Emma Pearl Freshour | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 40 ^b | 44 | 59 | 36 | 32 | 40 ^b | 0 | 0 | 251 | |
| 46N/84-1F1 | Richard Freshour M. M. Rogers | Irrigation | 60 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 40 ^b | 40 ^b | 30 ^b | 43 | 50 | 39 | 35 | 18 | 289 | |
| 46N/84-2A1 | Joe Freshour | Irrigation | 120 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 70 ^b | 80 ^b | 70 ^b | 80 ^b | 80 ^b | 80 ^b | 51 | 55 | 94 ^a | 672 | Amounts for November and December include an estimated 107 ac, 50 and 37 ac respectively, which were spilled below point of measurement. |
| 46N/94-3E1 | W. M. Rogers | Irrigation | 250 feet below intake | Staff gage and depth-flow relationship | NR | | | | | | | | | | 73 | 65 | 46 | 364 |
| 46N/94-3D1 | Richard Jones Mason Meek Richard Pack | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | NR | | | | | | | | | | 128 | 96 | 0 | 850 |
| 46N/94-7Q1 | St. Francis Investment Company | Irrigation | At sprinklers | Pump feet and power record | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 8 | 7 | 4 | 0 | 0 | 27 | |
| 46N/94-10D1 | Richard Jones Mason Meek Richard Pack | Irrigation | 50 feet below intake | Staff gage and depth-flow relationship | NR | | | | | | | | | | 45 | 19 | 0 | 272 |
| 46N/94-10D2 | W. M. Rogers | Irrigation | 100 feet below intake | Staff gage and depth-flow relationship | NR | | | | | | | | | | 3 | 1 | 0 | 112 |

* See remarks
 a Monthly value estimated
 b Overton estimated for period indicated
 ---NR--- No record for period indicated

TABLE 5 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Overseer name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks |
|---|------------------------|------------|----------------------------------|--|-------------------------------|-----|------------------|------------------|------------------|-----------------|------------------|------------------|------|-----|-----|--------------------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | |
| BEAVER CREEK SUBUNIT (Continued) | | | | | | | | | | | | | | | | | |
| H. D. B. & M. 46N/94-1001 | Carl W. Schedler | Irrigation | — | Estimate | | | | | | | | | | | | 10 | |
| 46N/94-1301 | Circle Two Ranch | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | | | NR | | | | 170 ^e | 140 ^e | 130 | 19 | 0 | 606 | |
| 46N/94-1381 | Circle Two Ranch | Irrigation | 50 feet below intake | Estimate | | | | ** | 0 | 0 | | | | 0 | 0 | 100 | |
| 46N/94-1382 | Circle Two Ranch | Irrigation | At intake | Staff gage and depth-flow relationship | 0 | 0 | 120 ^e | 210 ^e | 190 ^e | 298 | 217 | 208 | 226 | 199 | 2 | 1,670 ^d | Total amount includes an estimated 1,474 af spilled back to creek. |
| 46N/94-1681 | Bert C. Jackson | Irrigation | 0.5 mile below intake | Staff gage and depth-flow relationship | | | NR | | 150 ^e | 137 | 122 | 104 | 103 | 99 | 103 | 818 ^d | Total amount includes an estimated 456 af spilled back to creek. |
| 46N/94-2311 | Elmer and Frank Lang | Irrigation | 100 feet below intake | Staff gage and depth-flow relationship | | | NR | | | 30 ^e | 30 | 39 | 39 | 42 | 40 | 220 | |
| 46N/94-2401 | Circle Two Ranch | Irrigation | 75 feet below intake | Estimate | 0 | 0 | 0 | ** | 0 | | | | | 0 | 0 | 70 | |
| 46N/94-2411 | Circle Two Ranch | Irrigation | 400 feet below intake | Estimate | 0 | 0 | 0 | ** | 0 | 0 | | | | 0 | 0 | 110 | |
| 46N/94-2422 | Circle Two Ranch | Irrigation | — | Estimate | | | | ** | | | | | | 0 | 0 | 110 | |
| 46N/94-24F1 | Circle Two Ranch | Irrigation | — | Estimate | | | | ** | | | | | | 0 | 0 | 30 | |
| 46N/94-24F2 | Circle Two Ranch | Irrigation | — | Estimate | | | | ** | | | | | | 0 | 0 | 20 | |
| 46N/94-24K1 | Circle Two Ranch | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 20 ^e | 0 | 0 | 20 ^e | 25 | 14 | 20 | 0 | 99 | |
| 46N/94-24L1 | Circle Two Ranch | Irrigation | 150 feet below intake | Estimate | 0 | 0 | 0 | ** | 0 | 0 | | | | 0 | 0 | 90 | |
| 46N/94-25A1 | Circle Two Ranch | Irrigation | 0.1 mile below intake | Estimate | 0 | 0 | 0 | ** | 0 | 0 | | | | 0 | 0 | 30 | |

* See remarks
^e Monthly value estimated
 ---**--- Overseer estimated for period indicated
 ---NR--- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---|--|---------------------------------|----------------------------------|--|-------------------------------|-------|------|------|------|------|-----|-----|------|-----|-----|--------|--|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| BEAVER CREEK SUBUNIT (Continued) | | | | | | | | | | | | | | | | | | |
| K_D_B & M 46N/9M-26B1 | Elmer and Frank Lang | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | NR | 20° | 41 | 54 | 56 | 51 | 50 | 272 | Amounts for October and November spilled back to creek. Ditch picked up an estimated 0.2 cfs of continuous flow from Fish Gulch about 0.5 mile below point of measurement which was not included in total. 1959 records in parentheses. Amounts for November and December include an estimated 130 af, 67 and 63 af respectively, which were spilled below point of measurement. | |
| 46N/9M-26K1 | Elmer and Frank Lang | Irrigation | 100 feet below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | NR | 10° | 23 | 19 | 20 | 20 | 14 | 106 | | |
| 46N/9M-28E1 | Kenneth R. Duncan | Domestic | 300 feet below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | NR | 30° | 26 | 26 | 15 | 21 | 14 | 132 | | |
| 46N/9M-33E1 | Virgil Roberts | Irrigation | 400 feet below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | NR | 50° | 59 | 47 | 48* | 29* | 0 | 233 | | |
| 47N/9M-31E1 | Quigley-Lichens Ditch | Irrigation Domestic | 400 feet below intake | Water-stage recorder and depth-flow relationship | NR | (0) | 246 | 476 | 557 | 782 | 579 | 450 | 147 | 70 | 70 | 3,307* | | |
| 47N/9M-35K1 | Joe Freehour | Irrigation Stockwatering | 30 feet below intake | Staff gage and depth-flow relationship | NR | (0) | NR | NR | NR | 90° | 89 | 86 | 91 | 94* | 94* | 604 | | |
| CECILVILLE SUBUNIT | | | | | | | | | | | | | | | | | | |
| 10N/8E-31G1 | Winnie Garsner Ted R. Finn Julia Linderman | Domestic Power | 0.5 mile below intake | Staff gage and depth-flow relationship | 300° | 270° | 300° | 290° | 300° | 300° | 379 | 383 | 298 | 287 | 287 | 3,687* | | An estimated 60 af transportation loss above gage not included in total. Total amount includes 427 af spilled to Cassa Ditch (38N/10W-32H1). An estimated 70 af transportation loss above gage not included in total. 1959 records in parentheses. |
| 37N/10W-4M1 | William S. Johnson | Irrigation Stockwatering | -- | Estimate | --- | --- | --- | --- | --- | ** | --- | --- | --- | --- | --- | 160 | | |
| 37N/10W-5D1 | Jordan Ditch | Irrigation Domestic Power | 1.2 miles below intake | Staff gage and depth-flow relationship | 150° | 140° | 150° | 150° | 150° | 150° | 153 | 157 | 147 | 156 | 161 | 1,791* | | |
| 37N/11W-3N1 | Dennis Moody | Irrigation Mining | 0.1 mile below intake | Staff gage and depth-flow relationship | (344) | (311) | --- | --- | --- | 10° | 24 | 14 | 2 | 0 | 17 | 67 | | |
| NR | | | | | | | | | | | | | | | | | | |
| (655) | | | | | | | | | | | | | | | | | | |

* See remarks
e Monthly value estimated
--*--*-- Diversion estimated for period indicated
--NR-- No record for period indicated

TABLE 5 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | | | | | | | | |
|---------------------------------------|---|----------------------------------|--------------------------------------|--|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|------|-----|-----|------------------|------------------|---|----|----|------------------|--|-----------------|------------------|---|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total | | | | | | | |
| <u>CECILVILLE SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. D. B. & H. 37N/11W-9A1 | Dennis Moody | Irrigation Mining | 0.1 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 20 ^a | 20 ^a | 20 ^a | 18 | 17 | 7 | 4 | 124 | | | | | | | | | |
| 37N/11W-12N1 | Edward A. McBroom | Mining Domestic | 200 feet below intake in penstock | Price meter in penstock and depth-flow relationship | 138 | 125 | 789 | 1,282 | 1,325 | 708 | 139 | 138 | 134 | 138 | 134 | 0 | 5,050 | | | | | | | | |
| 37N/11W-13N1 37N/11W-23G1 | E. W. Sawyer | Power | Near intake | Nozzle rating and depth-flow relationship | 120 | 108 | 120 | 116 | 120 | 116 | 120 | 120 | 116 | 120 | 116 | 120 | 1,412 | | | | | | | | |
| 38W/10W-32H1 | Queas Ditch | Irrigation Stockwatering | 2.5 miles below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 80 ^a | 80 ^a | 70 ^a | 28 | 39 | 0 | 13 | 0 | 0 | 310 ^a | Total amount does not include an additional 427 af received from Jordan Ditch (37N/10W-5D1). | | | | | | | |
| 38W/11W-17L1 | United States Klamath National Forest | Irrigation Domestic | 0.3 mile below intake | Staff gage and depth-flow relationship | -----NR----- | | | | | | | | | | | | 40 ^a | 43 | 46 | 21 | 21 | 58 | 40 ^a | 269 | |
| 38W/11W-21A1 | Nestor A. Westover | Power | At intake | Staff gage and depth-flow relationship | 260 ^b | 240 ^b | 270 ^b | 260 ^b | 260 ^b | 260 ^b | 230 ^b | 109 | 147 | 157 | 238 | 230 ^b | 2,661 | | | | | | | | |
| 38W/11W-29D1 | Shasta Mining Co. | Irrigation Stockwatering | 0.3 mile below intake | Staff gage and depth-flow relationship | -----NR----- | | | | | | | | | | | | 30 ^a | 64 | 31 | 29 | 27 | 86 | 60 ^a | 327 ^a | An estimated 30 af transpor- tation loss not included in total. |
| 38W/11W-29G1 | Olyn Gould | Power Domestic | At nozzle | Nozzle rating | 16 | 15 | 17 | 16 | 17 | 16 | 17 | 17 | 16 | 17 | 16 | 16 | 196 ^a | Small domestic use not included in total. | | | | | | | |
| 38W/11W-30H1 | Mrs. John W. McBroom | Irrigation | 0.2 mile below intake | Staff gage and depth-flow relationship | 60 ^b | 50 ^b | 60 ^b | 60 ^b | 150 ^b | 140 ^b | 124 | 72 | 37 | 38 | 46 | 40 ^b | 877 | | | | | | | | |
| 38W/11W-30K1 | Jack Boss Clarence R. Nance | Mining Domestic | At nozzle | Nozzle rating | 43 | 39 | 44 | 21 | -----NR----- | | | | | | | | | | | | 147 ^a | Small domestic use not included in total. | | | |
| 39W/10W-15B1 | Glen Thornton | Mining | At nozzle | Nozzle rating | 0 | 0 | 0 | 274 | 283 | 274 | 136 | 0 | 0 | 0 | 0 | 0 | 967 | | | | | | | | |
| 39W/10W-31D1 | Katarine C. George | Irrigation Mining Domestic | 1.5 miles below intake | Staff gage and depth-flow relationship | 120 ^b | 110 ^b | 120 ^b | 120 ^b | 120 ^b | 430 ^b | 328 | 227 | 95 | 97 | 104 | 120 ^b | 1,991 | | | | | | | | |
| 39W/12W-17E1 | George R. and Robert G. Godfrey | Irrigation Stockwatering | At area of use | Sprinkler test and operation record | 0 | 0 | 60 ^b | 60 ^b | 60 ^b | 30 ^b | 7 | 7 | 6 | 7 | 0 | 0 | 237 | | | | | | | | |

See remarks
e Monthly value estimated
---e--- Diversion estimated for period indicated
---NR--- No record for period indicated

TABLE 5 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks |
|---------------------------|---------------------------------|---------------------------|----------------------------------|--|-------------------------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----|-----|-------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | |
| COPCO LAKE SUBUNIT | | | | | | | | | | | | | | | | | |
| 4.7N/LS-3K | E. G. Lemas | Irrigation | At intake | Staff gage and depth-flow relationship | | | | | | 31 | 16 | 17 | 19 | 18 | 19 | 120 | |
| 4.8N/LS-2C | Warren, Tommy | Irrigation | 0.3 mile below intake | Staff gage and depth-flow relationship | | | | | | 0 | 0 | 0 | 32 | 32 | 0 | 64 | |
| 4.8N/LA-29A | Copco Lake | Power | (*) | (*) | 174,600 | 185,413 | 151,555 | 123,063 | 122,602 | 125,617 | 178,507 | 192,717 | 1,923,118 | | | | Record obtained from the California-Oregon Power Co. |
| 4.8N/5K-25A | California-Oregon Power Company | Irrigation | 0.5 mile below intake | Estimate | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 40 | |
| HAPPY CAMP SUBUNIT | | | | | | | | | | | | | | | | | |
| 1.6N/7E-1M | Siskiyou Mills | Industrial | At pump | Pump test and power record | 14 | 0 | 0 | 68 | 127 | 286 | 226 | 205 | 180 | 176 | 130 | 1,481 | |
| 1.6N/7E-2F1 | Keystone Ditch | Industrial Domestic | 0.2 mile below intake | Staff gage and depth-flow relationship | | | | | | 13 | 17 | 11 | 11 | 7 | 1 | 60 | |
| 1.6N/8E-17F1 | Prentie C. Hale | Irrigation Stockwatering | 400 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 40 | 50 | 46 | 44 | 47 | 13 | 0 | 240 | |
| 1.7N/6S-10R1 | Mrs. Marion M. Kniffen | Mining | 300 feet below intake | Estimate | | | | | | | | | | | | 10 | |
| 1.7N/7E-4G1 | David M. Huey | Irrigation Domestic Power | 0.1 mile below intake | Staff gage and depth-flow relationship | | | | | | 190 | 173 | 200 | 210 | 204 | 167 | 1,144 | |
| 1.7N/7E-4F1 | Paul C. Seak Charles Hockaday | Irrigation Domestic | 25 feet below intake | Staff gage and depth-flow relationship | | | | | | 50 | 66 | 63 | 67 | 69 | 60 | 375 | |
| 1.7N/7E-5L1 | Alice Sedroe | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | | | | | | 12 | 13 | 15 | 14 | 27 | 30 | 111 | |
| 1.7N/7E-9E1 | Alice Sedroe | Irrigation Domestic | 75 feet below intake | Staff gage and depth-flow relationship | | | | | | 80 | 107 | 91 | 31 | 53 | 28 | 390 | |
| 1.7N/7E-9F2 | Lee C. Waddell | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | | | | | | 55 | 67 | 50 | 61 | 75 | 51 | 399 | |

* See remarks
 e Monthly value estimated
 ---e--- Diversion estimated for period indicated
 --NR-- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks |
|---------------------------------------|-------------------------|---|----------------------------------|--|-------------------------------|-----|-----|-----|------------------|-----|-----|-----|------|-----|-----|-----|---------|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | |
| <u>HAPPY CAMP SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | |
| H. B. & N. 17N/7E-9E3 | Oay Head | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | NR | | | | | 216 | 204 | 112 | 5 | 6 | 689 | | |
| 17N/7E-9E4 | Oay Head | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | NR | | | | | 290 | 289 | 118 | 2 | 0 | 860 | | |
| 17N/7E-15N1 17N/7E-16A2 | Thomas Roberts | Irrigation Industrial | 400 feet below intake | Staff gage and depth-flow relationship | NR | | | | | 130 | 158 | 108 | 84 | 47 | 580 | | |
| 17N/7E-22B1 | Aubrey A. Hall | Domestic Stockwatering | 400 feet below intake | Staff gage and depth-flow relationship | NR | | | | | 16 | 22 | 13 | 1 | 1 | 54 | | |
| 17N/7E-26E1 | Aubrey A. Hall | Irrigation | At pump | Pump test and operation record | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 2 | 0 | 11 | | |
| 17N/7E-34F1 | Edward Head | Irrigation Domestic | 0.5 mile below intake | Staff gage and depth-flow relationship | NR | | | | 20 ^e | 17 | 14 | 18 | 18 | 24 | 133 | | |
| 18N/5E-25L1 | Duane N. Curry | Mining Domestic Power | 0.1 mile below intake | Staff gage and depth-flow relationship | NR | | | | | 184 | 154 | 57 | 27 | 115 | 670 | | |
| 18N/7E-32B1 | W. H. Bussert | Irrigation Domestic Stockwatering | 400 feet below intake | Staff gage and depth-flow relationship | NR | | | | | 35 | 16 | 8 | 6 | 9 | 80 | | |
| H. B. & M. 46N/12W-30F1 | Nolly Thomas | Irrigation Domestic | 400 feet below intake | Staff gage and depth-flow relationship | NR | | | | | 12 | 15 | 15 | 12 | 2 | 56 | | |
| 47N/12W-32L1 | R. T. Hauser | Irrigation Mining | 100 feet below intake | Staff gage and depth-flow relationship | NR | | | | 90 ^f | 124 | 127 | 111 | 100 | 120 | 780 | | |
| 47N/12W-32P1 | Chester N. Barton | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | NR | | | | 70 ^g | 88 | 71 | 61 | 39 | 35 | 374 | | |
| <u>HORN BROOK SUBUNIT</u> | | | | | | | | | | | | | | | | | |
| 46S/14W-15H1 | Etta O. Eneale | Irrigation | 3.8 miles below intake | Staff gage and depth-flow relationship | NR | | | | 120 ^g | 64 | 21 | 18 | 19 | 10 | 257 | | |
| 46S/14W-28J1 | R. W. Thomason | Irrigation | 150 feet below intake | Staff gage and depth-flow relationship | NR | | | | 20 ^h | 27 | 21 | 20 | 21 | 21 | 151 | | |

* See remarks
e Monthly value estimated
---*--- Diversion estimated for period indicated
---NR--- No record for period indicated

TABLE 5 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---|--|---|----------------------------------|--|-------------------------------|-----|-----|------|------|------|-----|-----|------|-----|-----|-----|---------|-------|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| <u>HORN BROOK SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | | |
| <u>W. D. B. & H.</u> 4.6N/4M-33D | Anthony J. Sylva | Irrigation | 50 feet below intake | Staff gage and depth-flow relationship | NR | | | | 20° | 20° | 6 | 3 | 0 | 1 | 8 | 10 | 68 | |
| 4.6N/5M-14Q | Russell Frederick | Irrigation | 100 feet below intake | Staff gage and depth-flow relationship | NR | | | | 10° | 13 | 3 | 11 | 6 | 11 | 6 | 10 | 64 | |
| 4.6N/5M-22N | Benjamin H. Hager | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | NR | | | 300° | 310° | 270° | 141 | 20 | 0 | 0 | 0 | 0 | 1,041 | |
| 4.6N/5M-28E | Clarence Ruck | Irrigation | -- | Estimate | | | | | | | | | | | | | 20 | |
| 4.7N/4M-71 | Chesbrough W. E. McKensie | Irrigation Stockwatering | 30 feet below intake | Staff gage and depth-flow relationship | NR | | | | 50° | 83 | 150 | 82 | 18 | 3 | 2 | | 388 | |
| 4.7N/4M-9D | Silva-Linieb Ditch | Irrigation Stockwatering Power | 100 feet below intake | Staff gage and depth-flow relationship | NR | | | | 250° | 245 | 243 | 234 | 228 | 215 | 222 | | 1,637 | |
| 4.7N/4M-18B | Jones Ditch | Irrigation Stockwatering Power | 150 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | NR | 340° | 358 | 312 | 365 | 38 | 61 | 55 | | 1,529 | |
| 4.7N/4M-18B2 | Elsie Bloomingcamp J. N. Foster | Irrigation Domestic Power | 20 feet below intake | Staff gage and depth-flow relationship | | | | NR | 140° | 61 | 108 | 91 | 112 | 18 | 8 | | 538 | |
| 4.7N/4M-18B3 | Chesbrough W. E. McKensie | Irrigation Stockwatering Domestic | 0.1 mile below intake | Staff gage and depth-flow relationship | | | | NR | 130° | 124 | 134 | 113 | 113 | 110 | 106 | | 830 | |
| 4.7N/4M-18B4 | Chesbrough J. N. Foster W. E. McKensie | Irrigation Stockwatering | 0.2 mile below intake | Staff gage and depth-flow relationship | | | | NR | 70° | 76 | 72 | 79 | 77 | 58 | 50 | | 482 | |
| 4.7N/4M-18E | John B. Fitzgerald | Irrigation Stockwatering Domestic | 400 feet below intake | Staff gage and depth-flow relationship | | | | NR | 160° | 110 | 180 | 204 | 112 | 0 | 0 | | 766 | |
| 4.7N/4M-19C | Elsie Bloomingcamp J. N. Foster | Irrigation Stockwatering | 100 feet below intake | Staff gage and depth-flow relationship | | | | NR | 60° | 52 | 186 | 75 | 116 | 0 | 0 | | 489 | |
| 4.7N/4M-20P | J. H. Foster | Irrigation Stockwatering | 0.2 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | NR | 20° | 75 | 135 | 116 | 103 | 2 | 1 | | 452 | |
| 4.7N/5M-15G | L. P. Smaud | Irrigation Domestic | 400 feet below intake | Staff gage and depth-flow relationship | | | | NR | 20° | 29 | 27 | 28 | 23 | 16 | 16 | | 159 | |

* See remarks

e Monthly value estimated

---e--- Diversion estimated for period indicated

---NR--- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks |
|---------------------------------------|--|--------------------------|----------------------------------|--|-------------------------------|-----|-----|-----------------|------------------|------------------|-----------------|-----|------|-----|-----------------|-----------------|---------|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | |
| <u>HORN BROOK SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | |
| M. D. B. & M. 4/7W/5W-1601 | California-Oregon Power Company | Irrigation | 25 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 40 ^e | 40 ^e | 110 ^e | 75 | 47 | 69 | 76 | 30 ^e | 0 | 557 |
| 4/7W/5W-1781 | James Liekey | Irrigation | -- | Estimate | | | | | | | | | | | | | 10 |
| 4/7W/5W-1941 | Lauren Palne | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 0 | 0 | 8 | 6 | 5 | 0 | 0 | 0 | 0 | 19 |
| 4/7W/5W-1941 | Lauren Palne | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 2 | 12 | 11 | 28 | 23 | 0 | 0 | 0 | 0 | 76 |
| 4/7W/5W-1991 | Kenneth Houston | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 22 | 42 | 41 | 28 | 1 | 0 | 0 | 0 | 0 | 134 |
| 4/7W/5W-3001 | Lem Leiby Tull | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 9 | 15 | 21 | 22 | 8 | 10 | 9 | 0 | 0 | 94 |
| 4/7W/6W-7E1 | L. G. Robertson | Irrigation Stockwatering | 150 feet below intake | Staff gage and depth-flow relationship | | | | | 90 ^e | 110 ^e | 36 | 34 | 50 | 108 | 83 | 3 | 514 |
| 4/7W/6W-17F1 | Ellis Ditch | Irrigation Stockwatering | 80 feet below intake | Staff gage and depth-flow relationship | | | | | 250 ^e | 163 | 242 | 111 | 106 | 192 | 39 | 54 | 1,157 |
| 4/7W/6W-1701 | C. F. Spearin | Irrigation | 450 feet below intake | Staff gage and depth-flow relationship | | | | | 60 ^e | 66 | 36 | 71 | 23 | 0 | 0 | 0 | 256 |
| 4/7W/6W-171U | Bill Rogers, Alfred W. and C. F. Spearin | Irrigation Stockwatering | 0.5 mile below intake | Staff gage and depth-flow relationship | | | | | 80 ^e | 40 ^e | 71 | 36 | 0 | 0 | 0 | 0 | 227 |
| 4/7W/6W-18E1 | Bob Cummins | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | | | | | | 20 ^e | 6 ^e | 0 | 0 | 0 | 0 | 0 | 26 |
| 4/7W/6W-18G1 | L. G. Robertson | Irrigation Stockwatering | 400 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 40 ^e | 21 | 14 | 25 | 21 | 39 | 45 | 18 | 223 |
| 4/7W/6W-1802 | L. G. Robertson | Irrigation Stockwatering | 150 feet below intake | Staff gage and depth-flow relationship | | | | | | 0 | 3 | 3 | 3 | 5 | 28 ^a | 20 ^a | 79 |
| 4/7W/6W-1971 | Elmer and Robert Julien | Irrigation | 400 feet below intake | Staff gage and depth-flow relationship | (8) | (9) | (2) | | | | | | | | | | (15) |
| | | | | | 0 | 0 | 0 | 0 | 30 ^e | 20 ^e | 10 ^e | 13 | 13 | 24 | 27 | 30 | 167 |

Diversion dam washed out July 20.
Total amount includes some water received from Cottonwood Irrigation and Mining Company ditch.
Amounts for November and December include an estimated 12 af spilled below gage.
1959 records in parentheses.
Total amount includes an estimated 70 af spilled below gage.

* See remarks
e Monthly value estimated
---e--- Diversion estimated for period indicated
--NR-- No record for period indicated

TABLE 5 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---------------------------------------|--|--------------------------|----------------------------------|--|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|-----|-----|---------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | | | | | | | | |
| M.D.B. & H. 47N/64-20E1 | Hornbrook Water Company | Municipal | 300 feet below intake | Staff gage and depth-flow relationship | 50° | 50° | 36 | 61 | 58 | 48 | 43 | 37 | 18 | 16 | 17 | 26 | 460 | |
| 47N/64-20H1 | Black Mountain Ranch | Irrigation | 0.2 mile below intake | Staff gage and depth-flow relationship | -----NR----- | -----NR----- | -----NR----- | -----NR----- | 150° | 116 | 53 | 21 | 2 | 7 | 5 | 1 | 355* | Total amount includes some water picked up from rancheria ditch. |
| 47N/64-21H1 | Black Mountain Ranch | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | -----NR----- | -----NR----- | -----NR----- | -----NR----- | 320° | 252 | 214 | 93 | 79 | 157 | 32 | 0 | 1,147 | |
| 47N/64-25D1 | Alfred W. Spearin | Irrigation Stockwatering | At pump | Pump test and power record | 0 | 0 | 0 | 0 | 53 | 36 | 36 | 52 | 7 | 15 | 0 | 0 | 199 | |
| 47N/64-25H1 | Alfred A. Protzman | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 0 | 23 | 15 | 17 | 10 | 29 | 0 | 0 | 0 | 94 | |
| 47N/64-27H1 | Black Mountain Ranch | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 0 | 0 | 30 | 49 | 7 | 0 | 0 | 0 | 0 | 86 | |
| 47N/64-27H2 | Black Mountain Ranch | Irrigation | At pump | Pump test and power record | 0 | 0 | 0 | 0 | 0 | 32 | 51 | 8 | 0 | 0 | 0 | 0 | 91 | |
| 47N/64-28C1 | Black Mountain Ranch | Irrigation | 0.5 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 110° | 105 | 14 | 0 | 0 | 0 | 0 | 0 | 229 | |
| 47N/64-29E1 | Fred Draggoo | Irrigation Stockwatering | 50 feet below intake | Staff gage and depth-flow relationship | -----NR----- | -----NR----- | -----NR----- | -----NR----- | -----NR----- | -----NR----- | -----NR----- | -----NR----- | -----NR----- | 4 | 1 | 1 | 7 | |
| 47N/64-33D1 | George E. Calleech | Irrigation | At pumps | Pump tests, power record, and operation record | 0 | 0 | 0 | 19 | 23 | 21 | 31 | 26 | 19 | 16 | 0 | 0 | 155 | Total amount is for two pumps. |
| 47N/64-36A1 | Louie Freitas | Irrigation Stockwatering | 0.1 mile below intake | Staff gage and depth-flow relationship | -----NR----- | -----NR----- | -----NR----- | -----NR----- | -----NR----- | 0 | 27 | 6 | 2 | 4 | 14 | 0 | 53 | |
| 47N/74-1F1 | Cottonwood Irrigation and Mining Company | Irrigation | 400 feet below intake | Water stage and depth-flow relationship | 0 | 0 | 0 | 0 | 491 | 415 | 417 | 252 | 194 | 163 | 139 | 141 | 2,349 | 1959 records in parentheses. |
| 47N/74-1F2 | John Syva | Irrigation Stockwatering | 400 feet below intake | Staff gage and depth-flow relationship | (73) | (56) | (8) | -----NR----- | 40° | 20° | 19 | 17 | 20 | 20 | 0 | 0 | 136 | (137) |
| 47N/74-1G1 | Herman Kurt | Irrigation Stockwatering | 100 feet below intake | Staff gage and depth-flow relationship | -----NR----- | -----NR----- | -----NR----- | -----NR----- | 100° | 91 | 98 | 22 | 25 | 42 | 26 | 20 | 424 | |

* See remarks
 e Monthly value estimated
 ---e--- Diversion estimated for period indicated
 ---NR--- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---------------------------------------|---------------------------------|-----------------------------|----------------------------------|--|-------------------------------|-----|-----|-----|------------------|------------------|-----|-----|-----------------|----------------|-----|-----|---------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| <u>HORN BROOK SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | | |
| 47N/74-12H1 | S. O. Haworth | Irrigation | 400 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 10 ⁰ | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | |
| 47N/74-12H2 | S. O. Haworth | Irrigation | 400 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 30 ⁰ | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 32 | |
| 47N/74-21C1 | Fred Draggoo Allen Jespersen | Irrigation Stockwatering | 200 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 140 ⁰ | 170 ⁰ | 182 | 115 | 78 | 81 | 46 | 16 | 828 | |
| 48N/54-21H1 | Dean Madero | Irrigation | 0.5 mile below intake | Staff gage and depth-flow relationship | -----NR----- | | | | | 20 ⁰ | 14 | 24 | 6 | 0 | 0 | 0 | 64 | |
| 48N/54-31R1 | Lawrence Lemos | Irrigation | 150 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 50 ⁰ | 19 | 9 | 8 | 12 | 13 | 5 | 0 | 166 | |
| 48N/54-32H1 | Lawrence Lemos | Irrigation Stockwatering | 0.1 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 40 ⁰ | 35 | 23 | 13 | 10 ⁰ | 0 ⁰ | 0 | 0 | 191 | |
| 48N/74-15C1 | F. L. Burns | Irrigation Stockwatering | 300 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 160 ⁰ | 55 | 101 | 27 | 18 | 27 | 0 | 0 | 388 | |
| 48N/74-15C2 | F. L. Burns | Irrigation | 150 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 240 ⁰ | 123 | 77 | 195 | 137 | 57 | 0 | 0 | 829 | |
| 48N/74-15D1 | F. L. Burns | Irrigation | 30 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 110 ⁰ | 61 | 27 | 21 | 51 | 45 | 0 | 0 | 315 | Total amount includes some water imported from Cottonwood Creek. |
| 48N/74-21C1 | F. L. Burns | Irrigation Stockwatering | 0.6 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 100 ⁰ | 86 | 55 | 30 | 20 | 13 | 0 | 0 | 304 | |
| 48N/74-34F1 | Walter Wreden | Irrigation Stockwatering | 0.3 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 200 ⁰ | 189 | 130 | 69 | 64 | 46 | 24 | 16 | 738 | |
| <u>KLAMATH GLEN SUBUNIT</u> | | | | | | | | | | | | | | | | | | |
| 10N/4E-32E1 | William Bow | Irrigation | -- | Estimate | ----- | | | | | | | | | | | | 260 | |
| 10N/4E-32E1 | Sam Jones | Power | 0.1 mile below intake | Nozzle rating | 41 | 37 | 41 | 40 | 41 | 40 | 41 | 41 | 40 | 41 | 40 | 41 | 485 | |

• See remarks
 * Monthly value estimated
 ---*--- Diversion estimated for period indicated
 ---NR--- No record for period indicated

TABLE 5 (Continued)
 MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---|----------------------------------|---------------------|----------------------------------|--|-------------------------------|------------------|------------------|------------------|------------------|------------------|-------|-------|-------|-----|-----|-----|-----------------|--------------------|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| <u>KLAMATH GLEN SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | | |
| <u>H. B. & N.</u> 10W/AE-32F1 | Homer Cooper | Irrigation Power | 275 feet below intake | Staff gage and depth-flow relationship | 50 ^e | 40 ^e | 40 ^e | 40 ^e | 50 ^e | 40 ^e | 63 | 81 | 58 | 40 | 36 | 38 | 576 | |
| 13W/IE-15D1 | Simonsen Lumber Company | Industrial | At nozzle | Nozzle rating | 10 | 10 | 20 | 21 | 20 | 21 | 20 | 20 | 20 | 22 | 17 | 11 | 212 | |
| 14W/IE-33R1 | United States Air Force | Domestic | (*) | (*) | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 16 ^e | |
| <u>SALMON RIVER SUBUNIT</u> | | | | | | | | | | | | | | | | | | |
| 10W/7E-2C1 | Monar H. Bennett | Irrigation Power | At nozzle | Nozzle rating | 60 | 55 | 61 | 59 | 61 | 59 | 61 | 61 | 59 | 61 | 59 | 61 | 717 | |
| 10W/7E-4P1 | Leo and Ross L. Brown | Irrigation Power | 0.7 mile below intake | Staff gage and depth-flow relationship | 120 | 108 | 120 | 116 | 120 | 120 | 150 | 93 | 55 | 46 | 69 | 124 | 1,241 | |
| 11W/7E-19H1 | Ivan Charles John Martin | Irrigation Domestic | 500 feet below intake | Operation record and depth-flow relationship | 15 | 13 | 15 | 15 | 59 | 57 | 59 | 59 | 57 | 36 | 14 | 15 | 414 | |
| 11W/7E-35P1 | Aubrey T. Crapps | Mining | At intake | Operation record and depth-flow relationship | 150 | 136 | 151 | 146 | 151 | 146 | 150 | 151 | 146 | 151 | 146 | 150 | 1,774 | |
| <u>SAWYERS BAR SUBUNIT</u> | | | | | | | | | | | | | | | | | | |
| <u>H. O. B. & N.</u> 39W/11W-2B1 | F. H. Buchella Frank J. Hartnett | Mining | At nozzle | Nozzle rating | 206 | 576 | 638 | 617 | 637 | 617 | 283 | 0 | 0 | 0 | 0 | 0 | 78 | 3,652 ^e |
| 39W/11W-2B1 39W/11W-4C1 | Gene Thomsen | Mining | At nozzle | Nozzle rating | 650 | 598 | 650 | 650 | 650 | 630 | 315 | 0 | 0 | 0 | 0 | 0 | 4,113 | |
| 40W/11W-13J1 | Doug Eshelick | Industrial Domestic | -- | Estimate | 0 | 0 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 0 | 0 | 0 | 700 | |
| 40W/11W-28P1 | Community of Sawyers Bar | Municipal | 0.5 mile below intake | Staff gage and depth-flow relationship | 160 ^e | 150 ^a | 160 ^e | 160 ^a | 160 ^e | 160 ^e | 146 | 157 | 147 | 144 | 124 | 127 | 1,795 | |

* See remarks
 e Monthly value estimated
 ---e--- Diversion estimated for period indicated
 ---N R--- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---|---|-----------------------------|----------------------------------|--|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------|-----|-----|-----|--------------------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| <u>SAWIERS BAR SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | | |
| <u>H. D. B. & M.</u> 4.0W/114-32E1 | United States Klamath National Forest | Power Domestic | At nozzle | Nozzle rating | 20 | 19 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 239 ^e | Small domestic use not included in total. |
| 4.0W/114-33F1 | Patricia Judge | Mining | At nozzle | Nozzle rating | 0 | 157 | 34.9 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 675 | |
| 4.0W/124-131L | John Ahlgren | Irrigation Stockwatering | 0.1 mile below intake | Staff gage and depth-flow relationship | 20 ^e | 20 ^e | 20 ^e | 20 ^e | 20 ^e | 10 ^e | 21 | 20 | 16 | 10 | 8 | 16 | 201 | |
| 4.0W/124-28F1 | William D. Sagsner | Mining Power | At nozzle | Nozzle rating | 419 | 379 | 419 | 406 | 419 | 232 | 124 | 15 | 14 | 15 | 14 | 114 | 2,570 ^e | Small domestic use not included in total. |
| 4.0W/124-32C1 | Richard T. Bendl | Power | At nozzle | Nozzle rating | 28 | 25 | 27 | 26 | 27 | 26 | 27 | 27 | 26 | 27 | 26 | 27 | 315 ^e | Total amount does not include an estimated 1.0 cfs continuously spilled at head of penstock. |
| <u>SCOTT BAR SUBUNIT</u> | | | | | | | | | | | | | | | | | | |
| 4.5W/104-153L | Harry Krupa B. U. Woodrue George Skillens | Irrigation Domestic | 50 feet below intake | Staff gage and depth-flow relationship | | | | | | | 60 ^e | 80 | 65 | 70 | 81 | 78 | 434 | |
| 4.5W/104-21E1 | Scott Bar Community Water Association | Irrigation Domestic | 80 feet below intake | Staff gage and depth-flow relationship | | | | | | | 70 ^e | 115 | 110 | 107 | 103 | 101 | 606 | |
| <u>SEIAD VALLEY SUBUNIT</u> | | | | | | | | | | | | | | | | | | |
| 4.6W/104-3M1 | V. B. Ward | Irrigation Stockwatering | 150 feet below intake | Staff gage and depth-flow relationship | | | | | | 140 ^e | 170 ^e | 130 ^e | 122 | 115 | 18 | 17 | 712 | |
| 4.6W/104-3N1 | V. B. Ward | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | | | | | | 70 ^e | 70 ^e | 60 ^e | 59 | 27 | 0 | 0 | 286 | |
| 4.6W/104-5F1 | Asa Robinson | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | | | | | | | 80 ^e | 4.9 | 31 | 9 | 0 | 0 | 169 | |
| 4.6W/104-5F2 | Asa Robinson | Irrigation | 250 feet below intake | Staff gage and depth-flow relationship | | | | | | | 60 ^e | 50 ^e | 24 | 12 | 0 | 0 | 146 | |
| 4.6W/104-5Q1 | Asa Robinson | Irrigation | 150 feet below intake | Staff gage and depth-flow relationship | | | | | | | 138 | 89 | 62 | 13 | 0 | 0 | 302 | |

^e See remarks
^e Monthly value estimated
^e Diversion estimated for period indicated
 ---NR--- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | | |
|---|--------------------------------------|---------------------------------------|----------------------------------|--|-------------------------------|-----|-----|-----|------|------|-----|------|------|-----|-----|-----|---------|-------|--|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total | |
| <u>SEIAD VALLEY SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | | | |
| N B & H 46N/10W-70L | A. A. Morgan | Irrigation | 200 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 64 | 96 | 67 | 40 | 56 | 38 | 361 | |
| 46N/10W-60L | Fred Rainey | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 396 | 185 | 128 | 32 | 12 | 12 | 765 | |
| 46N/10W-90L | V. B. Ward | Irrigation | 30 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 30° | 40° | 40° | 41 | 43 | 32 | 21 | 0 | 0 | 0 | 247 | |
| 46N/10W-98L | C. Robert Rainey | Irrigation Stockwatering | 100 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 40° | 39 | 40 | 25 | 7 | 2 | 153 | |
| 46N/10W-99L | C. Robert Rainey | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | 60° | 110° | 110° | 124 | 93 | 50 | 9 | 9 | 9 | 9 | 675 | |
| 46N/10W-164L | Leon Handley | Industrial | 50 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 590° | 317 | 457 | 447 | 332 | 59 | 2,202 | |
| 46N/10W-210L | John H. Pickens | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 38 | 26 | 19 | 13 | 14 | 14 | 124 | |
| 46N/11W-58L | W. W. Robinson, Jr. | Irrigation Stockwatering | 100 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 40° | 132 | 98 | 100 | 55 | 1 | 13 | 13 | 439 | | |
| 46N/11W-57L | R. G. Friddy | Irrigation Stockwatering | 50 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | 30° | 30° | 70 | 37 | 8 | 29 | 35 | 3 | 242 | | |
| 46N/11W-60L | Stanley P. Schwarts | Irrigation Stockwatering | 200 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 37 | 9 | 10 | 5 | 8 | 7 | 76 | |
| 46N/11W-60L | Stanley P. Schwarts | Irrigation Stockwatering Mining | 0.1 mile below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 79 | 67 | 68 | 72 | 73 | 29 | 388 | |
| 46N/11W-70L | Stanley P. Schwarts W. O. Staming | Irrigation | 300 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 6 | 1 | 0 | 0 | 4 | 5 | 16 | |
| 46N/11W-188L | H. C. Hammon | Irrigation Domestic | At intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 21 | 46 | 39 | 72° | 79° | 84° | 341 | Water diverted after October 15 was for domestic use only. |
| 46N/11W-284L | O'Neil Creek Ditch | Irrigation Domestic | 0.2 mile below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 65 | 67 | 78 | 78 | 59 | 27 | 374 | |
| 46N/11W-350L | Hamburg Ditch | Irrigation Domestic | 30 feet below intake | Staff gage and depth-flow relationship | --- | --- | --- | --- | --- | --- | --- | 65 | 88 | 98 | 99 | 100 | 79 | 529 | |

• See remarks
° Monthly value estimated
---°--- Overrun estimated for period indicated
--NR-- No record for period indicated

TABLE 5 (Continued)
MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks |
|---|--|--|----------------------------------|--|-------------------------------|-----------------|-----------------|-----------------|------------------|-----|-----|-----|------|-----------------|-----|------------------|---------|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | |
| <u>SEIAD VALLEY SUBUNIT (Continued)</u> | | | | | | | | | | | | | | | | | |
| <u>H. B. & M.</u> 46W/11W-36R1 | Kate Martin Boese McCulley | Irrigation | 20 feet below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | NR | 20 | 26 | 26 | 35 | 29 | 9 | 145 | |
| 46W/12W-12F1 | Fred Jensen | Irrigation Stockwatering | 0.2 mile below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 30 ^e | 115 | 82 | 77 | 100 | 26 | 0 | 480 | |
| 46W/12W-12F1 | Loy Conrad Fred Jensen | Irrigation Stockwatering | 100 feet below intake | Staff gage and depth-flow relationship | 0 | 0 | 0 | 0 | 70 ^e | 236 | 181 | 193 | 198 | 50 ^e | 0 | 898 | |
| 46W/12W-14C1 | Grider Creek Club | Irrigation Stockwatering | 300 feet below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | 30 ^e | 32 | 47 | 25 | 21 | 18 | 21 | 194 | |
| 46W/12W-14E1 | Grider Creek Club | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | 100 ^e | 103 | 122 | 114 | 80 | 113 | 632 | | |
| 46W/12W-14K1 | J. Byer Norman Wahey | Irrigation Industrial Stockwatering | At intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | 100 ^e | 130 | 170 | 737 | 345 | 402 | 386 | 1,906 | |
| 47W/10W-26F1 | Benjamin F. Maplesden St. Francis Investment Company | Irrigation Stockwatering Mining | 3.5 miles below intake | Staff gage and depth-flow relationship | NR | NR | NR | NR | 95 | 87 | 90 | 36 | 15 | 323 | | | |
| <u>SOMES BAR SUBUNIT</u> | | | | | | | | | | | | | | | | | |
| 12W/6E-10F1 | F. P. Dietz | Domestic Power | At nozzle | Nozzle rating | 10 | 9 | 9 | 9 | NR | NR | NR | NR | NR | NR | NR | 37 ^e | |
| 12W/6E-28M1 | Luther Hickox | Mining Power | At nozzle | Nozzle rating | 50 | 45 | 50 | 48 | 50 | 48 | 50 | 48 | 50 | 48 | 49 | 586 | |
| 12W/6E-28N1 | Luther Hickox | Mining | At nozzle | Nozzle rating | 528 | 477 | 528 | 510 | 528 | 510 | 255 | 0 | 0 | 0 | 0 | 3,336 | |
| 12W/6E-34J1 | Melisse Langford | Power Domestic | 0.7 mile below intake | Staff gage and depth-flow relationship | 20 ^e | 20 ^e | 20 ^e | 20 ^e | 20 ^e | 24 | 25 | 21 | 18 | 25 | 22 | 257 | |
| 13W/6E-5H1 | J. B. Eghraim | Power | At nozzle | Nozzle rating | 17 | 16 | 17 | 17 | 17 | 8 | 7 | 7 | 7 | 7 | 7 | 144 | |
| 13W/6E-33G1 | L. H. Hayes | Irrigation Domestic Stockwatering Power | At nozzle | Nozzle rating and operation record | 28 | 25 | 28 | 27 | 32 | 34 | 36 | 34 | 28 | 26 | 28 | 362 ^e | |

• See remarks
• Monthly value estimated
--•••-- Diversion estimated for period indicated
--NR-- No record for period indicated

TABLE 5 (Continued)

MONTHLY RECORDS OF SURFACE WATER DIVERSIONS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958

| Location number | Diversion name or owner | Use | Point of measurement or estimate | Method of observation and calculation | Amount diverted, in acre-feet | | | | | | | | | | | | Remarks | |
|---|--|-----------------------|----------------------------------|--|-------------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|---------|---|
| | | | | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | | Total |
| H. B. & M. 13W/6E-33M1 | Stanshaw Mines | Power Domestic | --- | Estimate | --- | | | | | | | | | | | | 40* | Small domestic use not included in total. |
| | | | | | 30 | 27 | 30 | 29 | 30 | 24 | 17 | 17 | 16 | 16 | 16 | 17 | 289 | |
| 15W/7E-13B1 | W. E. Lemon | Power | At nozzle | Nozzle rating | --- | | | | | | | | | | | | 304 | Total amount is for two pumps. |
| 15W/7E-13C1 | W. E. Lemon | Irrigation | 0.1 mile below intake | Staff gage and depth-flow relationship | 10* | | | | | | | | | | | | 400 | |
| 15W/8E-29K1 | Rose Y. Kennedy | Irrigation Domestic | --- | Estimate | --- | | | | | | | | | | | | 299* | Total amount is for two pumps. |
| 16W/7E-14K1 | Happy Camp Improvement, Inc. | Municipal | At pump | Pump test and power record | NR | --- | --- | --- | 26 | 35 | 46 | 47 | 40 | 45 | 29 | 31 | 299* | |
| 16W/8E-32B1 | L. R. Smith | Domestic Mining Power | At nozzle | Nozzle rating | NR | --- | --- | --- | 129 | 125 | 129 | 129 | 125 | 129 | 125 | 130 | 1,275 | Total amount is for two pumps. |
| WEITCHPEC SUBUNIT | | | | | | | | | | | | | | | | | | |
| 11W/6E-20J1 | Agnes Boreas | Power | At nozzle | Nozzle rating | 6 | 5 | 6 | 5 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | Total amount is for two pumps. |
| 11W/6E-21E1 | United States Six Rivers National Forest | Power | At nozzle | Nozzle rating | 44 | 39 | 44 | 42 | 43 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 345 | |
| 11W/6E-31F1 | Orleans Verner and Lumber Company | Industrial | At pump | Pump test and operation record | 303 | 271 | 295 | 292 | 301 | 287 | 303 | 295 | 293 | 303 | 284 | 303 | 3,530 | Total amount is for two pumps. |
| 11W/6E-32A1 11W/6E-32A2 | Roy McGain | Domestic Power | At nozzle | Nozzle rating | 104 | 94 | 104 | 100 | 104 | 101 | 104 | 104 | 101 | 104 | 100 | 104 | 1,224* | |
| WOOLEY CREEK SUBUNIT | | | | | | | | | | | | | | | | | | |
| (No diversions located in this subunit) | | | | | | | | | | | | | | | | | | |

S= See remarks
 * Monthly values estimated
 ---*--- Diversion estimated for period indicated
 ---NR--- No record for period indicated

Imports and Exports

No surface water was imported to or exported from the Klamath River Hydrographic Unit.

Consumptive Use

In the Klamath River Hydrographic Unit, the largest consumptive use of applied water is for irrigated agriculture. Consumptive use of water is defined as water consumed by vegetative growth for transpiration and building of plant tissue, and the water evaporated from adjacent soil, from water surfaces, and from foliage. It also includes water similarly consumed and evaporated by urban and other nonvegetative land use.

Based on the unit consumptive use values given in Department of Water Resources Bulletin No. 83, "Klamath River Basin Investigation", the consumptive use of applied water during 1958 is estimated to have been 10,300 acre-feet for irrigated agriculture. In addition, approximately 940 acre-feet were used for domestic and municipal purposes, and 1,000 acre-feet for industrial purposes in the production of lumber, plywood, and other wood products. The consumptive use of water involved in the production of power and for mining purposes is negligible and consists primarily of evaporation from canal surfaces.

Significant increases in the unit consumptive use values are indicated on the basis of studies now underway in the Department. Revision of the above estimates are not considered to be warranted until these studies are completed and the new values adopted. As a later phase of this investigation, estimates of future water requirements will be made utilizing the new values.

TABLE 6
INDEX TO SURFACE WATER DIVERSIONS
KLAMATH RIVER HYDROGRAPHIC UNIT

| Diversion name or owner | Location number | Subunit | References | |
|--|---|---|-----------------------|--|
| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| Ahlgren, John | 40N/12W-13L1 | Sawyers Bar | 28 | 53,74,109 |
| Alfonse, Louis | 47N/6W-6B1 | Hornbrook | 6 | 48,106,C-17 |
| Attebery, Arthur | 17N/7E-26P1 | Happy Camp | 8 | 43,104 |
| Attebery, Frank Hockaday, Alve | 17N/7E-16R1 | Happy Camp | 8 | 43,103 |
| Bagley, LeRoy | 46N/10W-23C1 | Beaver Creek | 9 | 36,100 |
| Barton, Chester H. | 46N/10W-15Q1 47N/12W-32P1 | Seiad Valley Happy Camp | 9 5 | 56,111 44,68,104 |
| Beck, Paul G. Hockaday, Charles | 17N/7E-4P1 | Happy Camp | 8 | 41,67,103,C-16 |
| Bendl, Richard T. | 40N/12W-32C1 | Sawyers Bar | 28 | 53,74,C-16 |
| Bennett, Homer H. | 10N/7E-2C1 | Salmon River | 30 | 52,73,109 |
| Black Mountain Ranch Cardoza, Frank R. | 47N/6W-20H1 47N/6W-27H1 47N/6W-27H2 47N/6W-28C1 47N/6W-28F1 | Hornbrook Hornbrook Hornbrook Hornbrook Hornbrook | 6 6 6 6 6 | 49,71,107 49,71,107 49,71,107 50,71,107,108 60,108 |
| Black Mountain Ranch Spearin, Alfred W. | 47N/6W-21M1 | Hornbrook | 6 | 49,71,107 |
| Bloomingscamp, Elsie Foster, J. N. | 47N/4W-18B2 47N/4W-18Q1 | Hornbrook Hornbrook | 7 7 | 46,69,105 46,69,105 |
| Boaz, Jack Nance, Clarence R. | 38N/11W-30M1 | Cecilville | 34 | 38,66,C-17 |
| Borsz, Agnes | 11N/6E-20J1 | Weitchpec | 27 | 59,77 |
| Bow, William | 10N/4E-32C1 | Klamath Glen | 29 | 52,72,109 |
| Brown, Leo and Rose L. | 10N/7E-4P1 | Salmon River | 30 | 52,73,109,C-12,C-14 |
| Brown, R. J. | 48N/3W-27M1 | Copco Lake | 4 | 39,102 |
| Buchella, F. H. Hartnett, Frank J. | 39N/11W-2B1 | Sawyers Bar | 31 | 53,73 |
| Burns, F. L. | 48N/7W-15C1 48N/7W-15C2 48N/7W-15D1 48N/7W-21C1 | Hornbrook Hornbrook Hornbrook Hornbrook | 3 3 3 3 | 51,72,108 51,72,108 51,72,108 51,72,109 |
| Bussert, W. H. | 18N/7E-32B1 | Happy Camp | 1 | 43,68,104 |
| Byer, J. Valpey, Norman | 46N/12W-14N1 | Seiad Valley | 9 | 57,76,111 |
| Cairns, S. B. | 47N/5W-28H1 | Hornbrook | 7 | 48,106 |

TABLE 6 (Continued)
INDEX TO SURFACE WATER DIVERSIONS
KLAMATH RIVER HYDROGRAPHIC UNIT

| Diversion name or owner | Location number | Subunit | References | |
|--|--------------------------|--------------|----------------------|---------------------------------|
| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| California-Oregon Power Company | 47N/5W-16D1 | Hornbrook | 7 | 47,70,106 |
| | 48N/4W-19D1 | Copco Lake | 4 | 40 |
| | 48N/4W-29N1 | Copco Lake | 4 | 40,102,108 |
| | 48N/5W-25A1 | Copco Lake | 4 | 41,67,103 |
| Callisch, George E. | 47N/6W-33D1 | Hornbrook | 6 | 50,71,108 |
| Cardoza, Frank R. | See Black Mountain Ranch | | | |
| Carnes, Charley Howard, C. T. | 17N/7E-27H1 | Happy Camp | 8 | 43 |
| Carsner, Winnie Finn, Ted H. Linderman, Julia | 10N/8E-31G1 | Cecilville | 30 | 37,65 |
| Chaffey, R. L. | 14N/1E-28N1 | Klamath Glen | 17 | 52,109,C-13 |
| Charles, Ivan Martin, John | 11N/7E-19H1 | Salmon River | 27 | 52,73,109 |
| Chessbrough Foster, J. N. McKenzie, W. E. | 47N/4W-7J1 | Hornbrook | 7 | 45,69,105 |
| | 47N/4W-18B3 | Hornbrook | 7 | 46,69,105 |
| | 47N/4W-18B4 | Hornbrook | 7 | 46,69,105 |
| Circle Two Ranch Hegler, Arthur A., Ida M., Mable M., and Merle R. | 46N/9W-13M1 | Beaver Creek | 10 | 34,64,99,100 |
| | 46N/9W-13N1 | Beaver Creek | 10 | 34,64,99,100 |
| | 46N/9W-13N2 | Beaver Creek | 10 | 34,64,99 |
| | 46N/9W-24D1 | Beaver Creek | 10 | 34,64,99,100 |
| | 46N/9W-24E1 | Beaver Creek | 10 | 34,64,100 |
| | 46N/9W-24E2 | Beaver Creek | 10 | 35,64,100 |
| | 46N/9W-24F1 | Beaver Creek | 10 | 35,64,100 |
| | 46N/9W-24F2 | Beaver Creek | 10 | 35,64,100 |
| | 46N/9W-24K1 | Beaver Creek | 10 | 35,64,100 |
| | 46N/9W-24L1 | Beaver Creek | 10 | 35,64,100 |
| 46N/9W-25A1 | Beaver Creek | 10 | 35,64,100 | |
| Clyburn, Thomas M. | 46N/7W-2A1 | Beaver Creek | 10 | 33,63,C-17 |
| Cold Creek Ranch Opdyke, Ralph J. | 47N/4W-9F1 | Hornbrook | 7 | 46,105 |
| Conrad, Loy Jensen, Fred | 46N/12W-12H1 | Seiad Valley | 9 | 57,76,111 |
| Coolie, Charles | 45N/8W-1L1 | Beaver Creek | (8) | 33,63 |
| Cooper, Homer | 10N/4E-32F1 | Klamath Glen | 29 | 52,73,109 |
| Copco Lake | 48N/4W-29P1 | Copco Lake | 4 | 40,67 |
| Cottonwood Irrigation and Mining Company | 47N/7W-1F1 | Hornbrook | 6 | 50,71,107,108 |
| Cripps, Aubrey Y. | 11N/7E-35P1 | Salmon River | 27 | 52, 73,C-15 |
| Cummins, Bob | 47N/6W-18E1 | Hornbrook | 6 | 48,70,107 |
| Curry, Duane H. | 18N/6E-25L1 | Happy Camp | 1 | 43,68,C-15,C-17 |
| DeAvilla, Jesse R. | 47N/8W-32N1 | Beaver Creek | 6 | 36,101 |

TABLE 6 (Continued)
INDEX TO SURFACE WATER DIVERSIONS
KLAMATH RIVER HYDROGRAPHIC UNIT

| Diversion name or owner | Location number | Subunit | References | |
|---|--|--|----------------------|---|
| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| DeAvilla, Jesse R. Stanley, Art and Letha | 47N/9W-24HL | Beaver Creek | 6 | 37,101,C-12 |
| Dietz, P. P. | 12N/6E-10F1 | Somes Bar | (g) | 58,76 |
| Draggoo, Fred | 47N/6W-29E1 | Hornbrook | 6 | 50,71,108 |
| Draggoo, Fred Jespersen, Allen | 47N/7W-24C1 | Hornbrook | 6 | 51,72,108 |
| Duncan, Kenneth R. | 46N/9W-28E1 | Beaver Creek | 10 | 35,65 |
| Eastlick, Doug | 40N/11W-13J1 | Sawyers Bar | 28 | 53,73 |
| Edwards, J. W. | 47N/4W-8J1 47N/4W-8Q1 | Hornbrook Hornbrook | 7 7 | 45,105 46,105 |
| Ellis Ditch Rogers, Bill Spearin, Alfred W. and C. F. | 47N/6W-17F1 | Hornbrook | 6 | 48,70,107 |
| Ensele, Etta O. | 46N/4W-15D1 46N/4W-15M1 | Hornbrook Hornbrook | 11 11 | 44,104,C-12 44,68,104 |
| Ephraim, J. B. | 13N/6E-5H1 | Somes Bar | 21 | 58,76 |
| Faulkner, William | 44N/11W-2E1 | Scott Bar | 16 | 54,110 |
| Fehlman, Donald E. and Avelyn L. | 46N/5W-5L1 46N/5W-7A1 | Hornbrook Hornbrook | (g) 11 | 44,104,C-21 45,105,C-21 |
| Finn, Ted H. | See Carsner, Winnie | | | |
| Fitzgerald, John B. | 47N/4W-18E1 47N/5W-11J1 47N/5W-12N1 | Hornbrook Hornbrook Hornbrook | 7 7 7 | 46,69,105,106 47,106 47,106 |
| Ford, Louis | 46N/6W-6D1 | Hornbrook | (g) | 45,C-18 |
| Foster, J. N. | 47N/4W-18L1 47N/4W-18M1 47N/4W-20M1 47N/4W-20P1 See also Bloomingcamp, Elsie See also Chessbrough | Hornbrook Hornbrook Hornbrook Hornbrook | 7 7 7 7 | 60,105 60,105 60,105 46,69,105,106 |
| Fournier, Joseph | See Scott Bar Mining Company | | | |
| Franklin, Jess and Nelson Quadros, Mary Ann | 47N/5W-14E1 | Hornbrook | 7 | 47,106 |
| Frederick, Russell | 46N/5W-14Q1 | Hornbrook | 11 | 45,69,105,C-21 |
| Freitas, Louie | 47N/6W-36A1 | Hornbrook | 6 | 50,71,108 |
| Freshour, Emma Pearl | 46N/8W-1A1 | Beaver Creek | 10 | 33,63,99 |
| Freshour, Joe | 46N/8W-2A1 47N/8W-35K1 | Beaver Creek Beaver Creek | 10 6 | 33,63,99 36,65,99 |
| Freshour, Richard Rogers, W. W. | 46N/8W-1F1 | Beaver Creek | 10 | 33,63,99 |

TABLE 6 (Continued)
INDEX TO SURFACE WATER DIVERSIONS
KLAMATH RIVER HYDROGRAPHIC UNIT

| Diversion name or owner | Location number | Subunit | References | |
|--|----------------------|--------------|----------------------|---------------------------------|
| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| Fruit Growers Supply Company | 47N/7W-4M1 | Hornbrook | 6 | 26,50 |
| | 48N/7W-28E1 | Hornbrook | 3 | 26,51 |
| Fugaalar, J. | 48N/4W-33Q1 | Copco Lake | 4 | 40,102 |
| | 48N/4W-33E1 | Copco Lake | 4 | 40,102 |
| George, Katarine C. | 39N/10W-31D1 | Cecilville | 31 | 38,66,101 |
| Godfrey, George R. and Robert G. | 39N/12W-17B1 | Cecilville | 31 | 39,66,101 |
| Gould, Olyn W. | 38N/11W-29Q1 | Cecilville | 34 | 38,66,C-19 |
| Grider Creek Club | 46N/12W-14C1 | Seiad Valley | 9 | 57,76,111 |
| | 46N/12W-14E1 | Seiad Valley | 9 | 57,76,111 |
| Grieb, G. M. | 47N/6W-17E1 | Hornbrook | 6 | 60,106 |
| | 47N/6W-17E2 | Hornbrook | 6 | 60,106 |
| | 47N/6W-17N1 | Hornbrook | 6 | 60,107 |
| | 47N/6W-18J1 | Hornbrook | 6 | 60,107 |
| Hager, Benjamin H. | 46N/5W-22M1 | Hornbrook | 11 | 45,69,105 |
| Hale, Prentis C. | 16N/8E-17F1 | Happy Camp | 12 | 41,67,103 |
| Hall, Aubrey A. | 17N/7E-22B1 | Happy Camp | 8 | 43,68, |
| | 17N/7E-26E1 | Happy Camp | 8 | 43,68,104,C-20 |
| Hamburg Ditch Hamburg, Community of | 46N/11W-35Q1 | Seiad Valley | 9 | 26,57,75,111 |
| Hamer, R. T. | 47N/12W-32L1 | Happy Camp | 5 | 44,68,104 |
| Hammon, H. C. | 46N/11W-18E1 | Seiad Valley | 9 | 56,75,111,C-13 |
| Handley, Leon | 46N/10W-16J1 | Seiad Valley | 9 | 56,75 |
| Happy Camp Improvement, Inc. | 16N/7E-14M1 | Somes Bar | 12 | 26,59,77,C-14,C-18, |
| Hartnett, Frank J. | See Buchella, F. H. | | | |
| Haworth, S. D. | 47N/7W-12H1 | Hornbrook | 6 | 50,72,108,C-12 |
| | 47N/7W-12H2 | Hornbrook | 6 | 51,72,108,C-12 |
| Hayes, L. H. | 13N/6E-33G1 | Somes Bar | 21 | 58,76,112 |
| Head, Edward | 17N/7E-34F1 | Happy Camp | 8 | 43,68,104 |
| Head, Guy | 17N/7E-9E3 | Happy Camp | 8 | 42,68,103 |
| | 17N/7E-9E4 | Happy Camp | 8 | 42,68,103 |
| Hegler, Arthur A., Ida M., Mable M., and Merle R. | See Circle Two Ranch | | | |
| Hessig Ranch | 48N/3W-14D1 | Copco Lake | 4 | 39,102 |
| | 48N/3W-14D2 | Copco Lake | 4 | 39,102 |
| | 48N/3W-34G1 | Copco Lake | 4 | 39,102 |
| | 48N/3W-35D1 | Copco Lake | 4 | 40,102 |
| Hickox, Luther | 12N/6E-28M1 | Somes Bar | 24 | 58,76 |
| | 12N/6E-28N1 | Somes Bar | 24 | 58,76 |
| Hill, Dorothy | 16N/7E-14N1 | Somes Bar | 12 | 59,112 |

TABLE 6 (Continued)
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| Diversion name or owner | Location number | Subunit | References | |
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| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| Hockaday, Alve | See Attebery, Frank | | | |
| Hockaday, Charles | See Beck, Paul G. | | | |
| Holstein, W. L. | See Bagley, LeRoy | | | |
| Hornbrook Water Company | 47N/6W-20E1 | Hornbrook | 6 | 26,49,71 |
| Houston, Kenneth | 47N/5W-19F1 | Hornbrook | 7 | 48,70,106 |
| Howard, C. T. | See Carnes, Charles | | | |
| Huey, David M. | 17N/7E-4G1 | Happy Camp | 8 | 41,67,103,C-14 |
| Hughes, Welsey | See Reed, Fred | | | |
| Jackson, Bert C. | 46N/9W-16H1 | Beaver Creek | 10 | 34,64,100 |
| Jacobson, L. B. | 45N/8W-10R1 | Beaver Creek | 14 | 33,63,C-14 |
| Jennings, R. | 47N/7W-31B1 47N/7W-31E1 | Beaver Creek Beaver Creek | 6 6 | 36,100 36,100 |
| Jensen, Fred | 46N/12W-12F1 See also Conrad, Loy | Seiad Valley | 9 | 57,76,111 |
| Jesperperson, Allen | See Draggoo, Fred | | | |
| Johnson, William S. | 37N/10W-4N1 | Cecilville | 36 | 37,65,101 |
| Jones Ditch Dr. Vogel | 47N/4W-18B1 | Hornbrook | 7 | 46,69,105,106 |
| Jones, Richard Meek, Mason Pack, Richard | 46N/9W-3M1 46N/9W-10D1 | Beaver Creek Beaver Creek | 10 10 | 33,63,99 34,63,99 |
| Jones, Sam | 10N/4E-32E1 | Klamath Glen | 29 | 52,72 |
| Jordan Ditch Sawyer, E.W. | 37N/10W-5D1 | Cecilville | 36 | 37,65,101,C-15 |
| Judge, Patricia | 40N/11W-33P1 | Sawyers Bar | 28 | 53,74,C-12,C-13 |
| Julien, Elmer and Robert | 47N/6W-19P1 | Hornbrook | 6 | 49,70,107 |
| Kennedy, Ross Y. | 15N/8E-29K1 | Somes Bar | 15 | 58,77,112 |
| Keystone Ditch Siskiyou Mills Yreka Veneer | 16N/7E-2F1 | Happy Camp | 12 | 41,67 |
| Kleaver, Gus | 44N/11W-8R1 | Scott Bar | 16 | 54,110 |
| Kniffen, Mrs. Marion M. | 17N/6E-10R1 | Happy Camp | (g) | 41,67,C-13 |
| Knudsen, Larry | 11N/6E-20F1 | Weitchpec | 27 | 59,113 |
| Krupa, Harry Nowdesha, B. U. Skillens, George | 45N/10W-15R1 | Scott Bar | 13 | 54,74,110 |
| Kuck, Clarence | 46N/5W-28R1 | Hornbrook | 11 | 45,69,105,C-20 |
| Kurt, Herman | 47N/7W-1G1 | Hornbrook | 6 | 50,71,108 |

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| Lang, Elmer and Frank | 46N/9W-23L1 | Beaver Creek | 10 | 34,64,100 |
| | 46N/9W-26B1 | Beaver Creek | 10 | 35,65,100 |
| | 46N/9W-26K1 | Beaver Creek | 10 | 35,65,100 |
| Langford, Melissa | 12N/6E-34J1 | Somes Bar | 24 | 58,76 |
| Lathrop, F. L. and C. G. | 47N/4W-1C1 | Copco Lake | 7 | 39,102 |
| | 47N/4W-2C1 | Copco Lake | 7 | 39,102 |
| | 48N/4W-34J1 | Copco Lake | 4 | 40,102 |
| | 48N/4W-35F1 | Copco Lake | 4 | 40,102 |
| | 48N/4W-36H1 | Copco Lake | 4 | 40,103 |
| | 48N/4W-36L1 | Copco Lake | 4 | 41,103 |
| Lee, Earl K. | 16N/7E-1H1 | Happy Camp | 12 | 41,103,C-12 |
| Lemas, E. G. | 47N/4W-3M1 | Copco Lake | 7 | 39,67,102 |
| | See also Silva-Linich Ditch | | | |
| Lemon, W. E. | 15N/7E-13B1 | Somes Bar | 15 | 58,77,112 |
| | 15N/7E-13G1 | Somes Bar | 15 | 58,77,112 |
| Lemos, Lawrence | 48N/6W-31R1 | Hornbrook | 3 | 51,72,108 |
| | 48N/6W-32M1 | Hornbrook | 3 | 51,72,108 |
| Linderman, Julia | See Carsner, Winnie | | | |
| Liskey, James | 45N/5W-17N1 | Hornbrook | 7 | 47,70,106 |
| Lord, Robert R. | 39N/12W-31L1 | Cecilville | 31 | 39 |
| Madero, Doan | 48N/5W-21N1 | Hornbrook | 4 | 51,72,108 |
| Maplesden, Benjamin F. St. Francis Investment Company | 47N/10W-26F1 | | 5 | 57,76,101,112 |
| | See Charles, Ivan | | | |
| Martin, John | See Charles, Ivan | | | |
| Martin, Kate McCulley, Rose R. | 46N/11W-36R1 | | 9 | 57,76,111 |
| | 37N/11W-12N1 | | 36 | 37,66 |
| McCulley, Edward A. | 37N/11W-12N1 | | 36 | 37,66 |
| McCulley, Mrs. John N. | 38N/11W-30H1 | | 34 | 38,66,101 |
| McClimans, Elmer E. | 17N/7E-7G1 | Happy Camp | 8 | 42,103,C-19 |
| McCulley, Rose R. | See Martin, Kate | | | |
| McGain, Roy | 11N/6E-32A1 | Weitchpec | 27 | 60,77 |
| | 11N/6E-32A2 | Weitchpec | 27 | 60,77 |
| McGinnis, Mrs. Felix H. | 17N/8E-17C1 | Happy Camp | 8 | 43,104 |
| McKenzie, W. E. | See Chessbrough | | | |
| Meek, Mason | See Jones, Richard | | | |
| Moody, Dennis | 37N/11W-3N1 | Cecilville | 36 | 37,65,101 |
| | 37N/11W-9A1 | Cecilville | 36 | 37,66,101 |

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| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| Morgan, A. A. | 46N/10W-7G1 | Seiad Valley | 9 | 55,75,110 |
| Mullin, William W. | 47N/8W-19M1 | Beaver Creek | 6 | 36,100 |
| Nance, Clarence R. | See Boaz, Jack | | | |
| Nowdesha, B. U. | See Krupa, Harry | | | |
| O'Brien, D. B. | 47N/5W-13M1 | Hornbrook | 7 | 47 |
| O'Neil Creek Ditch Robles, Nels | 46N/11W-28A1 | Seiad Valley | 9 | 57,75,111 |
| Opdyke, Ralph J. | See Cold Creek Ranch | | | |
| Orleans Veneer and Lumber Company | 11N/5E-25J1 | Weitchpec | 27 | 26,59 |
| | 11N/6E-31M1 | Weitchpec | 27 | 26, 59,77 |
| Pack, Richard | See Jones, Richard | | | |
| Paine, Laurant | 47N/5W-19A1 | Hornbrook | 7 | 47,70,106 |
| | 47N/5W-19J1 | Hornbrook | 7 | 47,70,106 |
| Pickens, John N. | 46N/10W-21Q1 | Seiad Valley | 9 | 56,75,111 |
| Priddy, R. G. | 46N/11W-5F1 | Seiad Valley | 9 | 56,75,111 |
| Price, Brazil and Zella | 44N/11W-27K1 | Scott Bar | 16 | 54,C-14 |
| Protsman, Alfred A. | 47N/6W-25D1 | Hornbrook | 6 | 49,71,107 |
| | 47N/6W-25H1 | Hornbrook | 6 | 49,71,107 |
| Quaas Ditch Quaas, John W. | 38N/10W-32H1 | Cecilville | 34 | 38,66,101 |
| Quadros, Mary Ann | 47N/5W-11M1 | Hornbrook | 7 | 47,106 |
| | See also Franklin, Jess and Nelson | | | |
| Quigley-Lichens Ditch | 47N/8W-31F1 | Beaver Creek | 6 | 36,65,100,C-12,C-13 |
| Rainey, C. Robert | 46N/10W-9R1 | Seiad Valley | 9 | 55,75,111 |
| | 46N/10W-9R2 | Seiad Valley | 9 | 55,75,111 |
| Rainey, Fred | 46N/10W-8J1 | Seiad Valley | 9 | 55,75,110 |
| Reed, Fred | 46N/5W-27A1 | Hornbrook | 11 | 45,105 |
| | 46N/5W-27F1 | Hornbrook | 11 | 45,105 |
| Reeves, Mrs. George | 44N/11W-2K1 | Scott Bar | 16 | 54,110 |
| Roberts, Thomas | 17N/7E-15N1 | Happy Camp | 8 | 42,68,103,C-19 |
| | 17N/7E-16A2 | Happy Camp | 8 | 42,68,103 |
| Roberts, Virgil | 46N/9W-28N1 | Beaver Creek | 10 | 35 |
| | 46N/9W-33E1 | Beaver Creek | 10 | 36 |
| | 46N/9W-33F1 | Beaver Creek | 10 | 36,65,100 |
| Robertson, L. G. | 47N/6E-7E1 | Hornbrook | 6 | 48,70,106 |
| | 47N/6E-18G1 | Hornbrook | 6 | 49,70,107 |
| | 47N/6E-18G2 | Hornbrook | 6 | 49,70,106,107 |

TABLE 6 (Continued)
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| Diversion name or owner | Location number | Subunit | References | |
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| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| Robinson, Asa | 46N/10W-5F1 | Seiad Valley | 9 | 55,74,110 |
| | 46N/10W-5F2 | Seiad Valley | 9 | 55,74,110 |
| | 46N/10W-5Q1 | Seiad Valley | 9 | 55,74,110 |
| Robinson, W. W., Jr. | 46N/11W-5B1 | Seiad Valley | 9 | 56,75,111 |
| | 47N/11W-32J1 | Seiad Valley | 5 | 57,112,C-16 |
| Robles, Nels | See O'Neil Creek Ditch | | | |
| Rogers, Bill Spearin, Alfred W. and C.F. | 47N/6W-17D1 | Hornbrook | 6 | 48,70,107 |
| | See also Ellis Ditch | | | |
| Rogers, W. W. | 46N/9W-3E1 | Beaver Creek | 10 | 33,63,99 |
| | 46N/9W-3M2 | Beaver Creek | 10 | 33 |
| | 46N/9W-10D2 | Beaver Creek | 10 | 34,63,99 |
| | See also Freshour, Richard | | | |
| Rosebush, Oliver A. and Floy M. | See Silva-Linich Ditch | | | |
| Rosten, Ed | See Black Mountain Ranch | | | |
| Sagaser, William D. | 40N/12W-28F1 | Sawyers Bar | 28 | 53,74,C-15 |
| Sawyer, E. W. | 37N/11W-13M1 | Cecilville | 36 | 37,66,C-16 |
| | 37N/11W-23G1 | Cecilville | 36 | 38,66 |
| | See also Jordan Ditch | | | |
| Sawyers Bar, Community of | 40N/11W-28F1 | Sawyers Bar | 28 | 26,53,73 |
| Schedler, Carl W. | 46N/9W-10J1 | Beaver Creek | 10 | 34,64,99 |
| Schwartz, Stanley P. | 46N/11W-6G1 | Seiad Valley | 9 | 56,75,111 |
| | 46N/11W-6Q1 | Seiad Valley | 9 | 56,75,111 |
| Schwartz, Stanley P. Simning, W. O. | 46N/11W-7D1 | Seiad Valley | 9 | 56,75,111 |
| | 46N/11W-7D2 | Seiad Valley | 9 | 56 |
| Scott Bar Community Water Association | 45N/10W-21E1 | Scott Bar | 13 | 26,54,74,110 |
| Scott Bar Mining Company Fournier, Joseph | 45N/10W-22D1 | Scott Bar | 13 | 54,110 |
| Sedros, Alice | 17N/7E-5L1 | Happy Camp | 8 | 42,67,103 |
| | 17N/7E-9E1 | Happy Camp | 8 | 42,67,103 |
| Sharp, J. F. Lumber Company | 17N/7E-16A1 | Happy Camp | 8 | 42 |
| Shasta Mining Company | 38N/11W-29D1 | Cecilville | 34 | 38,66,101 |
| Silva-Linich Ditch Lemas, E. G. Rosebush, Oliver A. and Floy M. | 47N/4W-9G1 | Hornbrook | 7 | 46,69,102 |
| | See Schwartz, Stanley P. | | | |
| | | | | |
| Simning, W. O. | See Schwartz, Stanley P. | | | |
| Simonson Lumber Company | 13N/1E-15D1 | Klamath Glen | 20 | 52,73 |
| Siskiyou Mills | 16N/7E-1N1 | Happy Camp | 12 | 41,67 |
| | See also Keystone Ditch | | | |

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| | | | Plate 2 Sheet No. | Text and appendixes Page No. |
| Skillens, George | See Krupa, Harry | | | |
| Smith, L. R. | 16N/8E-32B1 | Somes Bar | 12 | 59,77 |
| Smith, R. S. | 44N/11W-3M1 | Scott Bar | 16 | 54,110 |
| Smud, L. F. | 47N/5W-13G1 | Hornbrook | 7 | 47,69,106 |
| Spearin, Alfred W. | See Black Mountain Ranch See also Ellis Ditch See also Rogers, Bill | | | |
| Spearin, C. F. | 47N/6W-17Q1 See also Ellis Ditch See also Rogers, Bill | Hornbrook | 6 | 48,70,107 |
| Stanley, Art and Letha | See DeAvilla, Jesse R. | | | |
| Stenshaw Mines | 13N/6E-33M1 | Somes Bar | 21 | 58,77 |
| St. Francis Investment Company | 46N/9W-7O1 See also Maplesden, Benjamin F. | Beaver Creek | 10 | 34,63,99 |
| Stockett, Walter B. | 47N/8W-30F1 | Beaver Creek | 6 | 36,100 |
| Sylva, Anthony J. | 46N/4W-32A1 46N/4W-32B1 46N/4W-33D1 | Hornbrook Hornbrook Hornbrook | 11 11 11 | 44,104 44,104 44,69,104 |
| Sylva, John | 47N/7W-1F2 | Hornbrook | 6 | 50,71,108 |
| Thomain, Gene | 39N/11W-4Q1 39N/11W-9B1 | Sawyers Bar Sawyers Bar | (g) 31 | 53,73 53,73 |
| Thomas, Holly | 46N/12W-30P1 | Happy Camp | 9 | 43,68,104 |
| Thomason, R. W. | 46N/4W-28J1 | Hornbrook | 11 | 44,68,104 |
| Thompson, Roy | 14N/1E-20K1 | Klamath Glen | 17 | 52 |
| Thornton, Glen | 39N/10W-15B1 | Cecilville | 31 | 38,66 |
| Tormey, Warren | 48N/4W-21C1 | Copco Lake | 4 | 40,67,102 |
| Tull, Lem LeRoy | 47N/5W-30D1 | Hornbrook | 7 | 48,70,106 |
| United States Air Force | 14N/1E-33H1 | Klamath Glen | 17 | 52,73,C-18 |
| United States Klamath National Forest | 38N/11W-17L1 40N/11W-32E1 44N/11W-20R1 | Cecilville Sawyers Bar Scott Bar | 34 28 16 | 38,66,101 53,74,C-16 54,C-17 |
| United States Six Rivers National Forest | 11N/6E-21E1 11N/6E-32B1 | Weitchpec Weitchpec | 27 27 | 59,77,C-17 60,C-18 |
| Valpey, Norman | See Byer, J. | | | |
| Volgo, Dr. | See Jones Ditch | | | |
| Waddell, Lee C. | 17N/7E-9E2 | Happy Camp | 8 | 42,67,103 |

TABLE 6 (Continued)
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| Diversion name or owner | Location number | Subunit | References | |
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| Ward, V. B. | 46N/10W-3M1 | Seiad Valley | 9 | 55,74,110 |
| | 46N/10W-3N1 | Seiad Valley | 9 | 55,74,110 |
| | 46N/10W-9J1 | Seiad Valley | 9 | 55,75,111 |
| Watson, H. C. | 48N/7W-22R1 | Hornbrook | 3 | 60,109 |
| | See also Wreden, Walter | | | |
| Westover, Nestor A. | 38N/11W-21A1 | Cecilville | 34 | 38,66, |
| Willamette Plywood Corporation | 17N/7E-16Q1 | Happy Camp | 8 | 42,C-19 |
| Williams, Alan | 46N/5W-7HL | Hornbrook | 11 | 45,105 |
| Woods, T. C. | 46N/7W-21DL | Beaver Creek | 10 | 33,63,99 |
| Wreden, Walter | 47N/7W-5G1 | Hornbrook | 6 | 50,108 |
| | 48N/7W-34F1 | Hornbrook | 3 | 51,72,109 |
| Wright, Hugh | 16N/7E-9P1 | Somes Bar | 12 | 59,112 |
| | 16N/7E-15F1 | Somes Bar | 12 | 59,112,C-15 |
| | 16N/7E-16H1 | Somes Bar | 12 | 59,112,C-15 |
| Yreka Veneer | See Keystone Ditch | | | |

CHAPTER III. LAND USE

The results of a survey of water uses and water facilities in the Klamath River Hydrographic Unit were presented in Chapter II. In this chapter are reported the results of a survey of present land uses as related to water use and a brief summary of historical conditions. A thorough knowledge of the nature and extent of land and water uses under past and existing conditions is one of the primary requisites in evaluating future water requirements within the hydrographic unit.

Historical Land Use

Development of the Klamath River area is associated with the rush for gold. As the deposits became worked out, many of the miners moved on to more promising regions but some remained to settle the valley areas, to plant crops, and to raise livestock. Diversion systems which supplied water for the miners were used to supply irrigation water.

An early land use survey, including Klamath River Hydrographic Unit, was recorded in two reports by Frank Adams: (1) "Irrigation Resources of Northern California," published in "Report of the Conservation Commission of the State of California," January 1, 1913, and (2) Bulletin 254 by the U. S. Department of Agriculture, Office Experiment Station, "Irrigation Resources of California and Their Utilization," published in 1913. Mr. Adams reported that in 1912 there were some 9,600 acres of irrigated lands in the hydrographic unit.

Methods and Procedures

A detailed survey of land uses in the Klamath River Hydrographic Unit was conducted in 1958 as a part of this investigation. The land use survey was accomplished by plotting field observations on the aerial photographs which had previously been used to locate surface water diversions. Stereoscopes were used to assist in the field mapping procedure. As the use of each parcel of land was determined, it was delineated on the photographs. The hydrographic unit was traversed by automobiles as completely as roads and terrain permitted. Where necessary, inspections were made on foot. An example of land use delineated on an aerial photograph is shown on page 91.

After completion of the field mapping, the data delineated on the photographs were transferred to copies of U. S. Geological Survey quadrangle maps reproduced at a scale of 1:24,000. This procedure was necessary to bring the delineated areas to a common scale for accurate determination of acreages, since the scale of the aerial photographs used is not uniform. A series of these maps showing the location of all diversions and the fields, including idle and fallow lands associated with each irrigation diversion, was colored according to the land use categories and was reviewed by local parties concerned. These work maps were then used in the preparation of Plate 2.

Another series of these maps was used in computing the acreages of the land uses. Each delineated area on these maps was manually cut out and was carefully weighed on an analytical balance. These weights were converted to acreages using ratios determined for each of



Example of Land Use Delineated on Aerial Photograph

Symbols used on this photograph:

- | | |
|---|--|
| iP1 - irrigated alfalfa | nG6 - dry-farmed miscellaneous hay and grain |
| iP3 - irrigated mixed pasture | U - urban |
| iG1 - irrigated miscellaneous hay and grain | UI3 - urban industrial-storage yard |
| nP1 - dry-farmed alfalfa | UI6 - urban industrial-sawmill |
| nG1 - dry-farmed barley | RC - recreation commercial |
| nG2 - dry-farmed wheat | I1 - idle-usually cropped or irrigated |
| nGF - dry-farmed grain-fallow | |
| nV - native vegetation | |

the individual maps. This method has proven to be a very expedient and accurate means of area determination where a large number of small parcels are involved.

Present Land Use

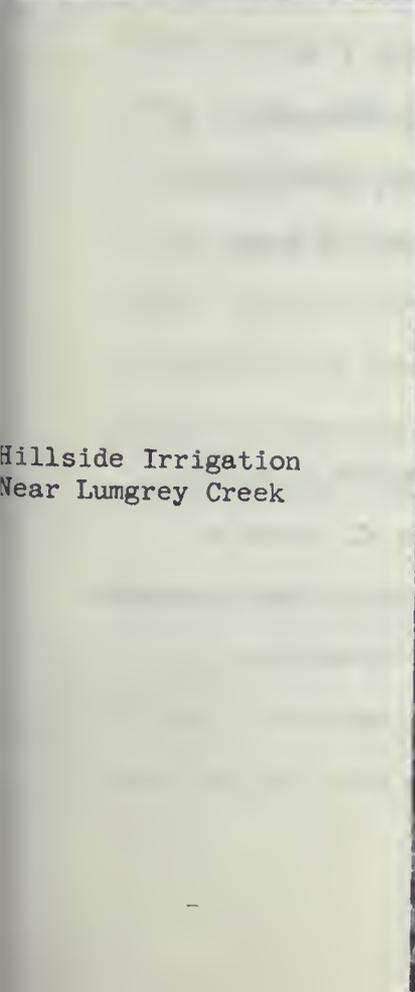
The land uses, as mapped in the survey, are tabulated as they relate to water use such as irrigated lands, dry-farmed lands, urban lands, recreational lands, and naturally high water table lands. Lands not falling into any of these categories were mapped and are tabulated as native vegetation. Sheets 1 through 36 of Plate 2 are maps detailing this land use. The acreages of land uses within each subunit are presented in Table 7, page 98. These values represent gross acreages, including nonwater service areas such as roads, ditches, building and storage areas, and miscellaneous rights-of-way, which occur within the mapped areas.

Irrigated Lands

Irrigated lands, as designated in this report, include all agricultural lands which receive water artificially applied. Acreages of irrigated lands are reported in Table 8, page 99 by surface water diversion or by ground water and by subunits showing the crop grown. These irrigated lands are segregated into pasture, alfalfa hay and meadow pasture, grain, hay, truck and field crops, orchard, and idle and fallow irrigated lands. Pasture is further subdivided into mixed, native, and pasture; the latter comprising native pasture lands having a high water table induced by the application of irrigation water. Grain is subdivided into barley and wheat. Idle irrigated lands are those lands which were not irrigated in the year of survey but which had been irrigated within the



Seiad Valley



Hillside Irrigation
Near Lumgrey Creek



preceding three years. Fallow irrigated lands are those cultivated lands which may be irrigated during the year of survey, but which at the time of survey were only tilled and not planted to a crop.

The lands irrigated by surface water are identified on the work maps by diversion and by crop irrigated. The lands irrigated by ground water are identified by crop only. On Plate 2 they are grouped into three categories only: (1) those lands which received full irrigation during the year of survey; (2) those lands which received only partial irrigation because of insufficient water supply; and (3) those lands usually irrigated but which were idle or fallow in 1958.

Naturally High Water Table Lands

In addition to the lands which receive applied water as described above, there are lands supporting vegetation utilizing water from a naturally high water table, such as mountain meadows or lands adjacent to lakes and streams. These are shown in Table 7 as "Meadowlands" and on Plate 2 as "Naturally irrigated meadowlands." If standing water was observable in an area on which tules, cattails, bullrushes, and similar vegetation was growing, the area is shown in Table 7 and on Plate 2 as "Marsh lands."

Dry-farmed Lands

Dry-farmed lands are those lands normally planted to a crop but which do not receive applied water. This includes all lands so farmed whether or not a crop is produced in the year of survey. Although lands are mapped as "dry-farmed idle" if uncultivated in the year of

survey and "dry-farmed fallow" if tilled but without a crop, they are shown in Table 7 and on Plate 2 as "dry-farmed lands." Lands which had been uncultivated for more than three years and appear to have reverted to "native vegetation" were so mapped.

It should be noted that the term "dry-farmed" as used herein refers to the farming practice on these lands and not to a lack of soil moisture.

Since noncultivated rangelands are usually indistinguishable from similar lands not used for grazing purposes, both are designated as native vegetation. Water use in both cases is essentially the same and is dependent upon precipitation.

Urban Lands

Urban lands include the total areas of cities, towns, small communities, industrial plots, and military reservations which are large enough to be delineated. Also included are parks, golf courses, race tracks, and cemeteries within or near urban boundaries. The acreages represent gross delineations, including streets and vacant lots, and are therefore not necessarily fully developed at the present time. In this survey the boundaries of urban communities were delineated to include all lands with a density of one house or more per two acres. Military reservations are included in their entirety regardless of the extent of development.

Recreational Lands

Recreational lands are mapped on aerial photographs in the field in four categories: (1) residential, (2) commercial, (3) camp and trailer sites and, (4) parks. Recreation residential lands include

permanent and summer home tracts within a primarily recreational area. The estimated density of homes per acre was also indicated. Recreational commercial lands include those containing motels, resorts, hotels, stores, restaurants, and similar commercial establishments in primarily recreational areas. Lands mapped in the camp and trailer sites category include those areas so used within primarily recreational areas. There are no existing federal or state parks within the Klamath River Hydrographic Unit. Obviously, nearly all of the mountainous and water surface areas are suitable for some use such as hunting, fishing, hiking, picnicking, and other recreational activities of this nature. For the purpose of this land use survey, however, consideration is given only to those lands where some fairly intensive development occurs requiring water service.

All recreational lands are combined into one group in Table 7 and on Plate 2. As in the case of urban lands, the areas delineated are not necessarily fully developed.

Native Vegetation

Lands which are essentially in a native state and not included in any of the above categories are mapped as native vegetation. These lands are generally used for mining, commercial timber production, livestock range, and recreational activities such as fishing, hunting, hiking, and picnicking. They total approximately 2,123,730 acres of 99 percent of the Klamath River Hydrographic Unit. Included in these areas some farm building and storage areas, water surfaces, scattered residences, and other isolated uses covering a few acres or less which are too small to be mapped separately.

The native vegetation lands are not included in Table 7.



Left:
Town of Happy Camp

Below:
Fishing on the
Klamath River



TABLE 7
LAND USE IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(in acres)

| Subunit and County | Irrigated lands | Naturally high water table lands | | Dry-farmed lands | Urban lands | Recreational lands |
|------------------------------------|-----------------|----------------------------------|-------------|------------------|-------------|--------------------|
| | | Meadowlands | Marsh lands | | | |
| Applegate River Siskiyou County | 0 | 310 | 0 | 0 | 0 | 10 |
| Beaver Creek Siskiyou County | 660 | 70 | 0 | 20 | 10 | 70 |
| Cecilville Siskiyou County | 160 | 530 | 0 | 0 | 0 | 60 |
| Copco Lake Siskiyou County | 650 | 180 | 0 | 30 | 20 | 30 |
| Happy Camp Siskiyou County | 240 | 200 | 0 | 10 | 350 | 220 |
| Hornbrook Siskiyou County | 4,090 | 40 | 20 | 12,560 | 350 | 40 |
| Klamath Glen Del Norte County | 130 | 160 | 40 | 480 | 500 | 310 |
| Humboldt County | 50 | 10 | 0 | 20 | 20 | 840 |
| Salmon River Siskiyou County | 30 | 320 | 0 | 0 | 0 | 30 |
| Sawyers Bar Siskiyou County | 10 | 500 | 0 | 0 | 60 | 70 |
| Scott Bar Siskiyou County | 70 | 360 | 0 | 10 | 10 | 100 |
| Selad Valley Siskiyou County | 490 | 180 | 0 | 30 | 60 | 70 |
| Somes Bar Humboldt County | 0 | 0 | 0 | 0 | 0 | 10 |
| Siskiyou County | 120 | 1,040 | 0 | 10 | 20 | 90 |
| Weitchpec Del Norte County | 0 | 10 | 0 | 0 | 0 | 0 |
| Humboldt County | 10 | 20 | 10 | 70 | 100 | 150 |
| Siskiyou County | 0 | 0 | 0 | 0 | 0 | 0 |
| Wooley Creek Siskiyou County | <u>0</u> | <u>670</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| SUMMARY: | | | | | | |
| Del Norte County | 130 | 170 | 40 | 480 | 500 | 310 |
| Humboldt County | 60 | 30 | 10 | 90 | 120 | 1,000 |
| Siskiyou County | <u>6,520</u> | <u>4,400</u> | <u>20</u> | <u>12,670</u> | <u>880</u> | <u>790</u> |
| TOTAL | 6,710 | 4,600 | 70 | 13,240 | 1,500 | 2,100 |

IRRIGATED LANDS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
 (In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|----------------------------|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 46N/7W-21D1 | T. C. Woods | 2 | | | | | | | | | 2 | 21 | | 23 |
| 46N/8W-1A1 | Emma Pearl Freshour | 3 | | | 10 | | | | | | 13 | | | 13 |
| 46N/8W-1F1 | Richard Freshour W. W. Rogers | 4 | | | 8 | | | | | | 12 | | | 12 |
| 46N/8W-2A1 47N/8W-35K1 | Joe Freshour | 15 | | | 2 | | | 9 | | | 26 | 2 | | 28 |
| 46N/9W-3E1 | W. W. Rogers | 39 | | | | | | | | | 39 | | | 39 |
| 46N/9W-3M1 | Richard Jones Mason Meek Richard Pack | 60 | | | 29 | | | | | | 89 | | | 89 |
| 46N/9W-7Q1 | St. Francis Investment Company | 7 | | | | | | | | | 7 | | | 7 |
| 46N/9W-10D1 | Richard Jonee Mason Meek Richard Pack | 18 | | | 31 | | | | | | 49 | | | 49 |
| 46N/9W-10D2 | W. W. Rogers | 10 | | | | | | | | | 10 | | | 10 |
| 46N/9W-10J1 | Carl W. Schedler | | | | 10 | | | | | | 10 | | | 10 |
| 46N/9W-13M1 | Circle Two Ranch | | | | 2 | | | | | | 2 | | | 2 |
| 46N/9W-13N1 | Circle Two Ranch | | | | 8 | | | | | | 8 | | | 8 |
| 46N/9W-13N2 46N/9W-24D1 | Circle Two Ranch | | | | 7 | | | | | | 7 | | | 7 |

APPLEGATE RIVER SUBUNIT

(No diversions located in this subunit)

BEAVER CREEK SUBUNIT

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>BEAVER CREEK SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| <u>M. D. B. & M.</u> | | | | | | | | | | | | | | |
| 46N/9W-16H1 | Bert C. Jackson | 6 | | | 10 | | | | | 5 | 21 | | | 21 |
| 46N/9W-23L1 | Elmer and Frank Lang | 3 | | | 4 | | | | | 2 | 9 | 4 | | 13 |
| 46N/9W-24D1 | Circle Two Ranch | 4 | | | | | | | | | 4 | | | 4 |
| 46N/9W-24E1 | Circle Two Ranch | | | | 5 | | | | | | 5 | | | 5 |
| 46N/9W-24E2 | Circle Two Ranch | | | | 4 | | | | | | 4 | | | 4 |
| 46N/9W-24F1 | Circle Two Ranch | | | | 4 | | | | | | 4 | | | 4 |
| 46N/9W-24F2 | Circle Two Ranch | | | | 3 | | | | | | 3 | | | 3 |
| 46N/9W-24K1 | Circle Two Ranch | | | | 8 | | | | | | 8 | | | 8 |
| 46N/9W-24L1 | Circle Two Ranch | | | | 12 | | | | | | 12 | | | 12 |
| 46N/9W-25A1 | Circle Two Ranch | | | | 7 | | | | | | 7 | | | 7 |
| 46N/9W-26B1 | Elmer and Frank Lang | 3 | | | | | | | | 3 | 6 | | | 6 |
| 46N/9W-26K1 | Elmer and Frank Lang | 11 | | | | | | | | | 11 | | | 11 |
| 46N/9W-33F1 | Virgil Roberts | 13 | | | | | 10 | | | | 23 | | | 23 |
| 46N/10W-23C1 | LeRoy Begley | 4 | | | | | | | | | 4 | | | 4 |
| 47N/7W-31B1 | R. Jennings | | | | 5 | | | | | | 5 | | | 5 |
| 47N/7W-31E1 | R. Jennings | 6 | | | | | | | | | 6 | 9 | | 15 |
| 47N/8W-19M1 | William W. Mullin | 3 | | | | | | | | | 3 | | | 3 |
| 47N/8W-30F1 | Walter B. Stockett | 7 | | | | | | | | | 7 | | | 7 |
| 47N/8W-31F1 | Quigley-Lichens Ditch | 28 | | | 24 | | | | 2 | | 54 | 1 | | 55 |
| 47N/8W-31F1 46N/9W-13M1 | Quigley-Lichens Ditch Circle Two Ranch | 13 | | | 33 | | | | | | 46 | | | 46 |

TABLE B (Continued)
 IRRIGATED LANDS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
 (In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|--------------------------------|---------------------------------|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| M. D. B. & M. | | | | | | | | | | | | | | |
| 47N/4W-1C1 | F. L. and C. G. Lathrop | | 15 | | | | | | | | 15 | | | 15 |
| 47N/4W-2C1 | F. L. and C. G. Lathrop | 16 | 6 | | | | | | | | 22 | | | 22 |
| 48N/4W-34J1 | | | | | | | | | | | | | | |
| 47N/4W-3M1 | E. C. Lemas | 28 | | | | | | | | | 28 | | | 28 |
| 47N/4W-9G1 | Silva-Linich Ditch | | | | | | | | | | | | | |
| 47N/4W-9G1 (Hornbrook Subunit) | Silva-Linich Ditch | 91 | 17 | | | | | | | | 108 | | | 108 |
| 48N/3W-14D1 | Hessig Ranch | 98 | | 3 | | | | | | | 101 | | | 101 |
| 48N/3W-14D2 | Hessig Ranch | 65 | | | | | | | | | 65 | | | 65 |
| 48N/3W-27N1 | R. J. Brown | 46 | | | 11 | | | | | | 57 | 9 | | 66 |
| 48N/3W-34G1 | Hessig Ranch | 86 | | 6 | | | | | | | 92 | | | 92 |
| 48N/3W-35D1 | Hessig Ranch | 11 | | | | | | | | | 11 | | | 11 |
| 48N/4W-21C1 | Warren Tormey | | 7 | | | | | | | | 7 | | | 7 |
| 48N/4W-29N1 | California-Oregon Power Company | 15 | | | | | | | | | 15 | | | 15 |
| 48N/4W-33Q1 | J. Fugaalar | 4 | 8 | | | | | | | | 12 | | | 12 |
| 48N/4W-33R1 | | | | | | | | | | | | | | |
| 48N/4W-35P1 | F. L. and C. G. Lathrop | 11 | 7 | | | | | | | | 18 | | | 18 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Division name or owner | Pasture | | | Alfalfa hay and posture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---------------------------------------|----------------------------------|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>COPCO LAKE SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 48N/4W-36H1 | F. L. and C. G. Lathrop | 48 | | | | | | | | | 48 | | | 48 |
| 48N/4W-36L1 | F. L. and C. G. Lathrop | 28 | | | | | | | | | 28 | | | 28 |
| 48N/5W-25A1 | California-Oregon Power Company | 13 | | | | | | | | | 13 | | | 13 |
| Total | Copco Lake Subunit | 560 | 60 | 9 | 11 | 0 | 0 | 0 | 0 | 0 | 640 | 9 | 0 | 649 |
| <u>HAPPY CAMP SUBUNIT</u> | | | | | | | | | | | | | | |
| <u>H B & M</u> | | | | | | | | | | | | | | |
| 16N/7E-1H1 | Earl K. Lee | | | | 8 | | | | | | | 3 | | 3 |
| 16N/8E-17F1 | Prentis C. Hale | 9 | | | | | | | | | 17 | | | 17 |
| 17N/7E-4G1 | David M. Huey | 8 | | | | | | | | | 8 | | | 8 |
| 17N/7E-4P1 | Paul G. Beck Charles Hockaday | 4 | | | | | | | | | 4 | | | 4 |
| 17N/7E-5L1 | Alice Sedros | 6 | | | | | | | | | 6 | | | 6 |
| 17N/7E-7G1 | Elmer E. McClimans | 6 | | | | | | | | 2 | 8 | | | 8 |
| 17N/7E-9E1 | Alice Sedros | 6 | 7 | | | | | | | 3 | 16 | | | 16 |
| 17N/7E-9E2 | Lee C. Waddell | | 4 | | | | | | | | 4 | | | 4 |
| 17N/7E-9E3 | Guy Head | 39 | | | 14 | | | | | | 53 | | | 53 |
| 17N/7E-9E4 | | | | | | | | | | | | | | |
| 17N/7E-16A2 | Thomas Roberts | 6 | 38 | | | | | | | | 44 | | | 44 |
| 17N/7E-15N1 | | | | | | | | | | | | | | |
| 17N/7E-16R1 | Frank Attebery Alve Hockaday | | | | | | | | | | | 10 | | 10 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Oiversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---------------------------------------|---------------------------------|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>HAPPY CAMP SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| <u>H B & M</u> | | | | | | | | | | | | | | |
| 17N/7E-26E1 | Aubrey A. Hall | 5 | | | 5 | | | | | | 10 | | | 10 |
| 17N/7E-26P1 | Arthur Attebery | | 4 | | | | | | | | 4 | | | 4 |
| 17N/7E-34F1 | Edward Head | 7 | | | | | | | 3 | 2 | 12 | | | 12 |
| 17N/8E-17C1 | Mrs. Felix H. McGinnis | 4 | 3 | | | | | | | | 7 | | | 7 |
| 18N/7E-32B1 | W. H. Bussert | 16 | | | | | | | | | 16 | | | 16 |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 46N/12W-30P1 | Holly Thomas | | 12 | | | | | | | | 12 | | | 12 |
| 47N/12W-32L1 | R. T. Hamer | 4 | | | | | | | | | 4 | | | 4 |
| 47N/12W-32P1 | Chester H. Barton | 6 | | | | | | | | | 6 | | | 6 |
| Total | Happy Camp Subunit | 126 | 68 | 0 | 27 | 0 | 0 | 0 | 3 | 7 | 231 | 13 | 0 | 244 |
| <u>HORN BROOK SUBUNIT</u> | | | | | | | | | | | | | | |
| 46N/4W-15M1 | Etta O. Ensele | 53 | 13 | 12 | 211 | | 16 | | | | 305 | | | 305 |
| 46N/4W-15D1 | | | | | | | | | | | | | | |
| 46N/4W-28J1 | R. W. Thomason | | | | 35 | | | | | | 35 | | | 35 |
| 46N/4W-32A1 | Anthony J. Sylva | | | | | | | | | | | | 22 | 22 |
| 46N/4W-32B1 | Anthony J. Sylva | | | | 7 | | | | | | 7 | | 5 | 12 |
| 46N/4W-33D1 | Anthony J. Sylva | | | | 5 | | | | | | 5 | | 8 | 13 |
| 46N/5W-5L1 | Donald E. and Avelyn L. Fehlman | | | | | | | | | | | | 83 | 83 |

TABLE B (Continued)
 IRRIGATED LANDS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
 (In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and posture | Grain | | Hoy | Truck and field crops | Orchard | Total lands irrigated | Idle | Follow | Total |
|---------------------------------------|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | | | | |
| M D B & M | | | | | | | | | | | | | | |
| 46N/5W-7A1 | Donald E. and Avelyn L. Fehلمان | | | | 20 | | | | | | 20 | | | 20 |
| 46N/5W-7H1 | Alan Williams | | | | 48 | | | | | | 48 | | | 48 |
| 46N/5W-14Q1 | Russell Frederick | 11 | | | 4 | | | | | | 15 | | | 15 |
| 46N/5W-22M1 | Benjamin H. Hager | 68 | | | 74 | 196 | 39 | | | | 377 | | | 377 |
| 46N/5W-27F1 | Fred Reed | | | | 100 | | | | | | 100 | | | 100 |
| 46N/5W-27A1 | Fred Reed | | | | | | | | | | | | | |
| 46N/5W-28R1 | Clarence Kuck | 26 | | | | | | | | | 26 | | | 26 |
| 47N/4W-8J1 | J. W. Edwards | 75 | | | | | | | | | 75 | | | 75 |
| 47N/4W-8Q1 | J. W. Edwards | 51 | | | | | | | | | 51 | | | 51 |
| 47N/4W-9F1 | Cold Creek Ranch | 187 | | | | | | | | | 187 | | | 187 |
| 47N/4W-18B1 | Jones Ditch | 354 | 8 | | | | | | | | 362 | 21 | | 383 |
| 47N/4W-18B3 | Chessbrough | 101 | | | | | | | | | 101 | | | 101 |
| 47N/4W-7J1 | W. E. McKenzie | | | | | | | | | | | | | |
| 47N/4W-18B4 | Chessbrough J. M. Foster W. E. McKenzie | | 18 | | | | | | | | 18 | 30 | | 48 |
| 47N/4W-18F1 | John B. Fitzgerald | 34 | | | | | | | | | 34 | | | 34 |
| 47N/4W-18L1 | J. N. Foster | 55 | 14 | | | | | | | | 69 | | | 69 |
| 47N/4W-18B2 | Elsie Bloomingcamp | 23 | | | | | | | | | 23 | | | 23 |
| 47N/4W-18M1 | J. N. Foster | | | | | | | | | | | | | |
| 47N/4W-18B2 | Elsie Bloomingcamp | 72 | | | | | | | | | 72 | | | 72 |
| 47N/4W-18Q1 | Elsie Bloomingcamp J. N. Foster | 23 | | | | | | | | | 23 | | | 23 |
| 47N/4W-20M1 | J. N. Foster | | | | | | | | | | | | | |
| 47N/4W-20F1 | J. N. Foster | 23 | | | | | | | | | 23 | | | 23 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>HORN BROOK SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| M D B & M | | | | | | | | | | | | | | |
| 47N/4W-20P1 | J. N. Foster | 5 | | | | | | | | | 5 | | | 5 |
| 47N/5W-11L1 | John B. Fitzgerald | 6 | | | | | | | | | 6 | | | 6 |
| 47N/5W-11M1 | Mary Ann Quadros | | | | | | | | | | | 13 | | 13 |
| 47N/5W-12N1 | John B. Fitzgerald | 32 | | | | | | | | | 32 | | | 32 |
| 47N/5W-13G1 | L. F. Smud | 10 | | | | | | | | | 10 | | | 10 |
| 47N/5W-13G1 47N/4W-18E1 | L. F. Smud Jones Ditch | 6 | | | | | | | | | 6 | | | 6 |
| 47N/5W-13G1 47N/4W-18E1 | L. F. Smud John B. Fitzgerald | 13 | | | | | | | | | 13 | | | 13 |
| 47N/5W-14E1 | Mary Ann Quadros Jess and Nelson Franklin | 13 | | | | | | | | | 13 | | | 13 |
| 47N/5W-16D1 | California-Oregon Power Company | 9 | | | | | | | | | 9 | | | 9 |
| 47N/5W-17N1 | James Liskey | | | | 4 | | | 8 | | | 12 | | | 12 |
| 47N/5W-19A1 | Lauran Paine | 3 | | | | | | | | | 3 | | | 3 |
| 47N/5W-19U1 | Lauran Paine | 22 | | | | | | | | | 22 | | | 22 |
| 47N/5W-19P1 | Kenneth Houston | | | | 13 | | | | | 2 | 15 | | | 15 |
| 47N/5W-28H1 | S. B. Cairns | 9 | | | | | | | | | 9 | | | 9 |
| 47N/5W-30D1 | Lem LeRoy Tull | 9 | | | 9 | | | | | | 18 | | | 18 |
| 47N/6W-6B1 | Louis Alfonso | 30 | | | | | | | | | 30 | | | 30 |
| 47N/6W-7E1 | L. G. Robertson | 9 | 4 | | | | | | | | 26 | | | 26 |
| 47N/6W-17E1 47N/6W-17E2 47N/6W-18C2 | G. M. Grieb G. M. Grieb L. G. Robertson | | | | 17 | | | | | | 17 | | | 17 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(in acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| M D B & M | | | | | | | | | | | | | | |
| 47N/6W-17F1 | Ellis Ditch | 6 | | | 23 | | | | | | 29 | 5 | | 34 |
| 47N/6W-17F1 47N/6W-21M1 | Ellis Ditch Black Mountain Ranch Alfred W. Spearin | | | | 19 | | | | | | 19 | | | 19 |
| 47N/6W-17Q1 | C. F. Spearin | | | | 14 | | | | | | 14 | | | 14 |
| 47N/6W-17N1 47N/7W-1F1 | G. M. Grieb Cottonwood Irrigation and Mining Company | 6 | | | | | | 7 | | | 13 | | | 13 |
| 47N/6W-17D1 | Bill Rogers Alfred W. and C. F. Spearin | | | | 15 | | | 2 | | | 17 | | | 17 |
| 47N/6W-18E1 | Bob Commins | 3 | | | 3 | | | | | | 6 | | | 6 |
| 47N/6W-18G1 | L. G. Robertson | 1 | | | 5 | | | 26 | | 8 | 40 | | | 40 |
| 47N/6W-18G2 | L. G. Robertson | | | | | | | | | 11 | 11 | | | 11 |
| 47N/6W-18J1 | G. M. Grieb | 15 | | | 16 | | | | | | 33 | 12 | | 45 |
| 47N/6W-19F1 | Elmer and Robert Julien | | | 12 | | | | | | | 12 | 48 | | 60 |
| 47N/6W-20H1 | Black Mountain Ranch | | | | 23 | | | | | | 23 | | | 23 |
| 47N/6W-21M1 | Black Mountain Ranch Alfred W. Spearin | | | | 21 | | | | | | 21 | | | 21 |
| 47N/6W-25D1 | Alfred A. Protsman | 40 | | | | | | | | | 40 | | | 40 |
| 47N/6W-25H1 | Alfred A. Protsman | 26 | | | | | | | | | 26 | | | 26 |
| 47N/6W-27H1 47N/6W-27H2 47N/6W-21M1 | Black Mountain Ranch Black Mountain Ranch Black Mountain Ranch Alfred W. Spearin | 98 | | | 113 | | 38 | | | | 249 | | | 249 |
| 47N/6W-28C1 | Black Mountain Ranch | | | | 26 | | | | | | 26 | | | 26 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| HORN BROOK SUBUNIT (Continued) | | | | | | | | | | | | | | |
| M D B & M | | | | | | | | | | | | | | |
| 47N/6W-28F1 | Black Mountain Ranch | | | | 31 | | | | | | 31 | | | 31 |
| 47N/6W-28C1 | Black Mountain Ranch | | | | | | | | | | 56 | | | 56 |
| 47N/6W-29E1 | Fred Draggoo | 30 | | | 26 | | | | | | 56 | | | 56 |
| 47N/7W-24C1 | Fred Draggoo Allen Jespersen | | | | | | | | | | 22 | | | 22 |
| 47N/6W-33D1 | George E. Callisch | | | | 22 | | | | | | 14 | | 5 | 19 |
| 47N/6W-36A1 | Louie Freitas | 14 | | | | | | | | | 14 | | | 19 |
| 47N/7W-1F1 | Cottonwood Irrigation and Mining Company | 39 | 20 | | 159 | 27 | | 19 | | 4 | 268 | 18 | 6 | 292 |
| 47N/7W-1F2 | John Sylva | 11 | | | | | | | | | 11 | | | 11 |
| 47N/7W-1G1 | Herman Kurt | 15 | 12 | | 2 | | | | | 2 | 31 | | | 31 |
| 47N/7W-5G1 | Walter Wreden | 47 | | | | | | | | | 47 | | | 47 |
| 47N/7W-12H1 | S. D. Haworth | | | | 13 | | | | | | 13 | | | 13 |
| 47N/7W-12H2 | S. D. Haworth | | | | | | | | | | | | | |
| 47N/7W-24C1 | Fred Draggoo Allen Jespersen | 102 | | | 1 | | | | | | 103 | 41 | | 144 |
| 48N/4W-29N1 (Copeco Lake Subunit) | California-Oregon Power Company | 34 | | | | | | | | | 34 | | | 34 |
| 48N/5W-21N1 | Doan Madero | | 27 | | | | | | | | 27 | | | 27 |
| 48N/6W-31R1 | Lawrence Lemos | 3 | | | 8 | | | | | | 11 | | | 11 |
| 48N/6W-32M1 | Lawrence Lemos | 16 | | | 24 | | | | | | 40 | | | 40 |
| 48N/7W-15C1 | F. L. Burns | 36 | | | 11 | | | | | | 47 | | | 47 |
| 48N/7W-15C2 | F. L. Burns | 62 | 5 | | | | | | | | 67 | | | 67 |
| 48N/7W-15D1 | F. L. Burns | | 10 | | | | | | | | 10 | | | 10 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Division name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---------------------------------------|---------------------------------|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>HORN BROOK SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 48N/7W-21C1 | F. L. Burns | | 15 | | | | | | | | 15 | | | 15 |
| 48N/7W-22R1 | Homer C. Watson | 7 | | | | | | | | | 7 | | | 7 |
| 48N/7W-34F1 | Walter Wreden | 36 | | | | | | | | | 36 | | | 36 |
| | Lands irrigated by ground water | 49 | | | | | 33 | 19 | | | 101 | | | 101 |
| | Total Hornbrook Subunit | 2,005 | 158 | 12 | 1,122 | 310 | 60 | 75 | 0 | 27 | 3,769 | 188 | 129 | 4,086 |
| <u>KLAMATH GLEN SUBUNIT</u> | | | | | | | | | | | | | | |
| <u>H B & M</u> | | | | | | | | | | | | | | |
| 10N/4E-32C1 | William Bow | 34 | | | | | | | | | 34 | 12 | | 46 |
| 10N/4E-32F1 | Homer Cooper | 6 | | | | | | | | | 6 | | | 6 |
| 14N/1E-28N1 | R. L. Chaffey | 124 | | | | | | | | | 124 | | | 124 |
| | Lands irrigated by ground water | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 130 | 0 | 0 | 130 |
| | Total Del Norte County | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 12 | 0 | 46 |
| | Total Humboldt County | 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 164 | 12 | 0 | 176 |
| | Total Klamath Glen Subunit | 5 | | | | | | | | | 5 | | | 5 |
| 10N/7E-2C1 | Homer H. Bennett | 10 | | | | | | | | | 10 | | | 10 |
| 10N/7E-4P1 | Leo and Rose L. Brown | 10 | | | | | | | | | 10 | | | 10 |
| 11N/7E-19H1 | Ivan Charles John Martin | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 25 |
| | Total Salmon River Subunit | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| <u>SAWYERS BAR SUBUNIT</u> | | | | | | | | | | | | | | |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 40N/12W-13L1 | John Ahlgren | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| | Total Sawyers Bar Subunit | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hoy | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---|--------------------------------------|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>SEIAD VALLEY SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 46N/10W-90L | V. B. Ward | 7 | | | | | | | | | 7 | | | 7 |
| 46N/10W-90R | C. Robert Rainey | 11 | | | | | | | | | 11 | | | 11 |
| 46N/10W-9R2 | C. Robert Rainey | 59 | | | | | | | | | 59 | | | 59 |
| 46N/10W-15Q1 | Chester H. Barton | | | | | | | | | | | 14 | | 14 |
| 46N/10W-21Q1 | John N. Pickens | 6 | | | 2 | | | | | | 8 | | | 8 |
| 46N/11W-5B1 | W. W. Robinson, Jr. | 6 | 3 | | | | | | | | 9 | | | 9 |
| 46N/11W-5F1 | R. G. Priddy | | 20 | | | | | | | | 20 | | | 20 |
| 46N/11W-6G1 | Stanley P. Schwartz | | 17 | | | | | | | | 17 | | | 17 |
| 46N/11W-6Q1 | Stanley P. Schwartz | | 12 | | | | | | | | 12 | 6 | | 18 |
| 46N/11W-7D1 | Stanley P. Schwartz W. O. Simning | 7 | 8 | | | | | | | | 15 | | | 15 |
| 46N/11W-18E1 | H. C. Hammon | | 3 | | | | | | | | 3 | | | 3 |
| 46N/11W-28A1 | O'Neil Creek Ditch | 7 | | | | | | | | 4 | 11 | | | 11 |
| 46N/11W-35Q1 | Hamburg Ditch | 3 | 6 | | | | | | | | 9 | | | 9 |
| 46N/11W-36R1 | Kate Martin Rose R. McCulley | 6 | | | | | | | | | 6 | | | 6 |
| 46N/12W-12F1 | Fred Jensen | 27 | | | | | | | | | 27 | | | 27 |
| 46N/12W-12H1 | Loy Conrad Fred Jensen | 21 | 4 | | | | | | | | 25 | | | 25 |
| 46N/12W-14C1 46N/12W-14E1 | Grider Creek Club | 8 | 23 | | | | | | | | 31 | | | 31 |
| 46N/12W-14N1 | J. Eyer Norman Valpey | 17 | 9 | | | | | | | | 26 | | | 26 |

TABLE 8 (Continued)
IRRIGATED LANDS IN
KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
(In acres)

| Location number | Division name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Fallow | Total |
|---|---|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| <u>SEIAD VALLEY SUBUNIT (Continued)</u> | | | | | | | | | | | | | | |
| <u>M D B & M</u> | | | | | | | | | | | | | | |
| 47N/10W-26F1 | Benjamin F. Maplesden St. Francis Investment Company | 29 | | | | | | | | | 29 | | | 29 |
| 47N/11W-32J1 | W. W. Robinson, Jr. | | | | | | | | | | | 3 | | 3 |
| Total | Seiad Valley Subunit | 349 | 105 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 460 | 33 | 0 | 493 |
| <u>SOMES BAR SUBUNIT</u> | | | | | | | | | | | | | | |
| <u>H B & M</u> | | | | | | | | | | | | | | |
| 13N/6E-33G1 | L. H. Hayes | 19 | | | | | | | | | 19 | | | 19 |
| 15N/7E-13G1 | W. E. Lemon | 15 | | | | | | 5 | 1 | | 21 | | | 21 |
| 15N/7E-13B1 | | | | | | | | | | | | | | |
| 15N/8E-29K1 | Ross Y. Kennedy | 7 | | | | | | | | | 7 | | | 7 |
| 16N/7E-9P1 | Hugh Wright | 57 | | | | | | | | | 57 | | | 57 |
| 16N/7E-15F1 | | | | | | | | | | | | | | |
| 16N/7E-16H1 | | | | | | | | | | | | | | |
| 16N/7E-14A1 | Dorothy Hill | | | | | | | | | | | 15 | | 15 |
| Total Humboldt County | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Siskiyou County | | 98 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 104 | 15 | 0 | 119 |
| Total | Somes Bar Subunit | 98 | 0 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 104 | 15 | 0 | 119 |

TABLE 8 (Continued)
 IRRIGATED LANDS IN
 KLAMATH RIVER HYDROGRAPHIC UNIT, 1958
 (In acres)

| Location number | Diversion name or owner | Pasture | | | Alfalfa hay and pasture | Grain | | Hay | Truck and field crops | Orchard | Total lands irrigated | Idle | Follow | Total |
|---|---------------------------------------|---------|--------|--------|-------------------------|--------|-------|-----|-----------------------|---------|-----------------------|------|--------|-------|
| | | Mixed | Native | Meadow | | Barley | Wheat | | | | | | | |
| H B & M 11N/6E-20F1 | Larry Knudsen | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 |
| | Total Humboldt County | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 |
| | Total Weitchpec Subunit | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 |
| <u>WOOLEY CREEK SUBUNIT</u> | | | | | | | | | | | | | | |
| (No diversions located in this subunit) | | | | | | | | | | | | | | |
| | Lands irrigated by surface water: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| | Del Norte County | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 12 | 0 | 53 |
| | Humboldt County | 3,642 | 411 | 21 | 1,393 | 287 | 41 | 89 | 5 | 59 | 5,948 | 329 | 129 | 6,406 |
| | Siskiyou County | | | | | | | | | | | | | |
| | Lands irrigated by ground water: | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 0 | 0 | 124 |
| | Del Norte County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Humboldt County | 49 | 0 | 0 | 0 | 33 | 19 | 0 | 0 | 0 | 101 | 12 | 0 | 113 |
| | Siskiyou County | | | | | | | | | | | | | |
| | Total Klamath River Hydrographic Unit | 3,862 | 411 | 21 | 1,393 | 320 | 60 | 89 | 5 | 59 | 6,220 | 353 | 129 | 6,702 |

CHAPTER IV. LAND CLASSIFICATION

Calculations of future water requirements will be based in a large part on a classification of lands with regard to their potential for irrigated agricultural and recreational development. The results of such a land classification survey in the Klamath River Hydrographic Unit are presented in this chapter.

Lands were not classified in this survey with respect to their potential for urban development. The use of lands for urban purposes is closely related to population at any given time, and it is planned to defer designation of these lands until estimates of population and related economic studies are made in connection with determinations of future water requirements.

The former Division of Water Resources made a reconnaissance classification of lands of the State, which was reported in State Water Resources Board Bulletin No. 2, "Water Utilization and Requirements of California," dated June 1955. A more detailed land classification survey was performed by the department and reported in Department of Water Resources Bulletin No. 58, and Bulletin No. 83. The entire area of the Klamath River Hydrographic Unit was included in Bulletin No. 83, and the Siskiyou County portion was included in Bulletin No. 58. The present investigation uses the same basic land classification survey which was used in Bulletins No. 58 and 83. However, additional data on classification of recreational lands have been included, along with some minor modifications to the irrigable agricultural lands and a remapping of the present urban lands.

Methods and Procedures

The general methods and procedures used in field mapping and tabulation of information were essentially the same as those described for the land use survey in Chapter III. An example of land classification delineations on an aerial photograph is shown on page 122.

The standards used in the classification of lands are given in detail in Table 9. Results of the land classification survey are shown on Plate 3, "Classification of Lands," Sheets 1 through 36. The totals of areas in each classification are listed in Table 10, page 123.

TABLE 9

LAND CLASSIFICATION STANDARDS

| Land : class : symbol: | Characteristics |
|------------------------------|---|
| <u>Irrigable Lands</u> | |
| V | These lands are level or slightly sloping and vary from smooth to hummocky or gently undulating relief. The maximum allowable slope is 6 percent for smooth reasonably large-sized bodies lying in the same plane. As the relief increases and becomes more complex, lesser slopes are limiting. The soils have medium to deep effective root zones, are permeable throughout, and free of salinity, alkalinity, rock or other conditions limiting crop adaptability of the land. These lands are suitable for all climatically adapted crops. |
| H | These are lands with greater slope and/or relief than those of the V class. They vary from smooth to moderately rolling or undulating relief. The maximum allowable slope is 20 percent for smooth, reasonably large-sized bodies lying in the same plane. As the relief increases and becomes more complex, lesser slopes are limiting. The soils are permeable, with medium to deep effective root zones, and are suitable for the production of all climatically adapted crops. The only limitation is that imposed by topographic conditions. |

TABLE 9 (Continued)

LAND CLASSIFICATION STANDARDS

| Land : class : symbol: | Characteristics |
|------------------------------|-----------------|
|------------------------------|-----------------|

- M These are lands with greater slope and/or relief than those of the H class. They vary from smooth to steeply rolling or undulating relief. The maximum allowable slope is 30 percent for smooth, reasonably large-sized bodies lying in the same plane. As the relief increases and becomes more complex, lesser slopes are limiting. The soils are permeable, with medium to deep effective root zones, and are suitable for the production of all climatically adapted crops. The only limitation is that imposed by topographic conditions.

Any variation from the foregoing, as defined, is indicated by use of one or more of the following symbols:

- w Indicates the presence of a high water table, which in effect limits the present crop adaptability of these lands to pasture crops. Drainage and a change in irrigation practice would be required to affect the crop adaptability.
- s Indicates the presence of an excess of soluble salts or exchangeable sodium in slight amounts, which limits the present adaptability of these lands to crops tolerant to such conditions. The presence of salts within the soil generally indicates poor drainage and a medium-to-high water table. Reclamation of these lands will involve drainage and the application of small amounts of amendments and some additional water over and above crop requirements in order to leach out the harmful salts.
- ss Indicates the presence of an excess of soluble salts or exchangeable sodium in sufficient quantity to require the application of moderate amounts of amendments and some additional water over and above crop requirements in order to effect reclamation.
- h Indicates very heavy textures, which make these lands best suited for production of shallow-rooted crops.
- l Indicates fairly coarse textures and low moisture-holding capacities, which in general make these lands unsuited for the production of shallow-rooted crops because of the frequency of irrigation required to supply the water needs of such crops.
- p Indicates shallow depth of the effective root zone, which limits use of these lands to shallow-rooted crops.

TABLE 9 (Continued)

LAND CLASSIFICATION STANDARDS

| | |
|---------|-----------------|
| Land : | |
| class : | Characteristics |
| symbol: | |

r Indicates the presence of rock on the surface or within the plow zone in sufficient quantity to prevent use of the land for cultivated crops.

Urban Lands

UD The total area of cities, towns, and small communities presently used for residential, commercial, recreational, and industrial purposes.

Recreational Lands

RR Existing and potential permanent and summer home tracts within a primarily recreational area. The estimated number of houses, under conditions of full development, is indicated by a number in the symbol, i.e., RR-3 is suitable for three houses per acre.

RC Existing and potential commercial areas which occur within a primarily recreational area and which include motels, resorts, hotels, stores, etc.

RT Existing and potential camp and trailer sites within a primarily recreational area.

P Existing and potential county, state, federal, and private parks, race tracks, and fairgrounds.

Miscellaneous Lands

F Presently forested lands, or lands subject to forest management, which meet the requirements for irrigable land but which, because of the climatic conditions and physiographic position, are better suited for timber production or some type of forest management program rather than for irrigated agriculture.

Vm Swamp and marsh lands which usually support a heavy growth of phreatophytes and are covered by water most of the time.

N Includes all lands which fail to meet the requirements of the above classes.

Major Categories of Land Classes

The lands mapped can be grouped into four major categories:

- (1) irrigable lands, (2) urban lands, (3) recreational lands, and

(4) miscellaneous lands, which are those lands which fail to meet the requirements of the first three land class categories.

Irrigable Lands

Irrigable lands are grouped in appropriate classifications according to their suitability for development under irrigated agriculture and their crop adaptability. Presently irrigated lands are included within these classifications, but urban lands and recreational lands are not classed as to irrigability. The time element with respect to when the lands might be developed did not enter the determination, except that suitability for irrigated agriculture was necessarily considered in light of present agricultural technology.

There are many factors which influence the suitability of land for irrigation development. Since soil characteristics and the physiography of the landscape are the stable of these factors, they were the only ones considered in the survey in classifying lands as to their irrigability. The characteristics of the soil were established by examination of road cuts, ditch banks, and the material from test holes, together with observations of the type and density of native vegetation and crops. Representative slopes throughout the area were measured with a clinometer. Other aspects such as those economic factors related to the production and marketing of climatically adapted crops, the location of lands with respect to a water supply, and climatic conditions were not considered in the basic classification. These latter factors are very important in estimating the nature of future cropping patterns and practices and will be given due consideration when estimates are made of future water requirements.

Urban Lands

It is recognized that future urban expansion will encroach upon some of the irrigable lands. The location and extent of this type

of development is a function of many variables. Because this land classification survey is an inventory of relatively unchanging physical conditions, no attempt was made to locate the areas of urban encroachment. Therefore, only those lands devoted to urban uses in 1958 are designated as "urban" lands.

Recreational Lands

Present trends indicate an expanding rate of use and demand for recreational facilities throughout the State. In view of these trends and the ever-increasing population, it is recognized that there will be a demand for substantial land areas for recreational purposes. This is particularly true of the mountainous regions where this type of development is expanding rapidly at the present time.

Generally speaking, all mountainous lands are suitable for some recreational use such as hunting, fishing, and similar outdoor activities. However, for purposes of this survey, lands classified for recreational use were limited to those which are now, or may in the future be used intensively for permanent and summer home tracts, camp and trailer sites, and parks outside of urban areas. These are lands requiring intensive water service.

Primary considerations for classification of home tracts and camp and trailer sites were such physical factors as soil depth, slope, and rockiness; such aesthetic values as view, nearness to lakes or streams, or density and type of forest canopy suitable for the respective uses; and the plans of United States and State forest officials. An important factor in location of camp and trailer sites is the availability of a water supply, but isolation from existing roads did not influence site selection.

There are no existing federal or state parks within the Klamath River Hydrographic Unit.

Miscellaneous Lands

Presently forested lands or lands best suited for forest management which are otherwise irrigable are classed as "F" lands. Lands which were designated in the land use survey as marsh lands are classified as "Vm" lands.

Lands which failed to meet the requirements previously described in this chapter, are herein called "Other Lands" and amounted to approximately 2,037,120 acres or 95 percent of the unit. These "Other Lands" are not shown on Table 10.

CHAPTER V. SUMMARY

The Klamath River Hydrographic Unit consists of 234 square miles of Del Norte County, 523 square miles of Humboldt County, and 2,605 square miles of Siskiyou County. It includes the watersheds of the Klamath River, the Salmon River, and the lower 20 miles of the Scott River.

Valley and foothill lands constitute about 2 percent of the total area. Approximately 54 percent of the agricultural lands are dry-farmed, 46 percent are irrigated. Major irrigated crops are pasture and grain. Lumbering and associated wood products manufacturing are the most important local industries.

Water Use

Water rights in Seiad Valley have been adjudicated by legal action and others have been defined by private agreements. The remaining use is based primarily on riparian rights or on appropriative rights established prior to 1914 by merely diverting and using the water.

As of June 30, 1960, there were 247 active applications to appropriate water in the unit on file with the State Water Rights Board. Permits or licenses were granted for 234 of these applications and 13 were incomplete.

Approximately 71 percent of the 279 surface water diversions located were measured during 1958. The primary use and the amounts diverted are summarized as follows.

| <u>Primary use</u> | <u>Total number of diversions located</u> | <u>Number of diversions measured</u> | <u>Measured diversions (in acre-feet)</u> ^{1/} |
|--------------------|---|--------------------------------------|---|
| Irrigation | 217 | 148 | 62,300 |
| Municipal | 4 | 3 | 2,500 |
| Industrial | 10 | 7 | 8,300 |
| Mining | 17 | 16 | 25,200 |
| Power | 19 | 13 | 1,933,200 |
| Domestic | 12 | 5 | 1,500 |
| | <hr/> | <hr/> | <hr/> |
| TOTAL | 279 | 192 | 2,033,000 |

1/Partially estimated.

The total consumptive use of applied water during 1958 is estimated to have been 12,240 acre-feet, of which 10,300 acre-feet were used for irrigated agriculture, 940 acre-feet for domestic and municipal purposes and 1,000 acre-feet for industrial purposes in the production of wood products.

Land Use

The areas of present land uses within the Klamath River Hydrographic Unit are summarized below and presented pictorially in Figure 1, page 128.

| <u>Use</u> | <u>Area, in acres</u> |
|---|-----------------------|
| Agriculture | |
| Lands irrigated in 1958 | 6,220 |
| Lands normally irrigated but idle or fallow in 1958 | 480 |
| Dry-farmed lands | <u>13,240</u> |
| Total agriculture | 19,940 |
| Recreational lands | 2,100 |
| Urban lands | 1,500 |
| Meadowlands | 4,600 |
| Marsh lands | 70 |
| Native vegetation | <u>2,123,690</u> |
| Total area of unit | 2,151,900 |

Land Classification

The land classification survey reported in Department of Water Resources Bulletins No. 58 and 83 was used in this investigation, with additional data on classification of recreational lands, some minor modifications to the irrigable agricultural lands, and a resurvey of present urban lands. The results of these surveys are summarized below and presented pictorially in Figure 2.

| <u>Classification</u> | <u>Area, in acres</u> |
|-----------------------------------|-----------------------|
| Irrigable agricultural lands | 43,390 |
| Present urban lands | 1,500 |
| Recreational lands | 9,930 |
| Miscellaneous lands | |
| Irrigable forest management lands | 59,890 |
| Other lands (including Vm lands) | <u>2,037,190</u> |
| Total area of unit | 2,151,900 |

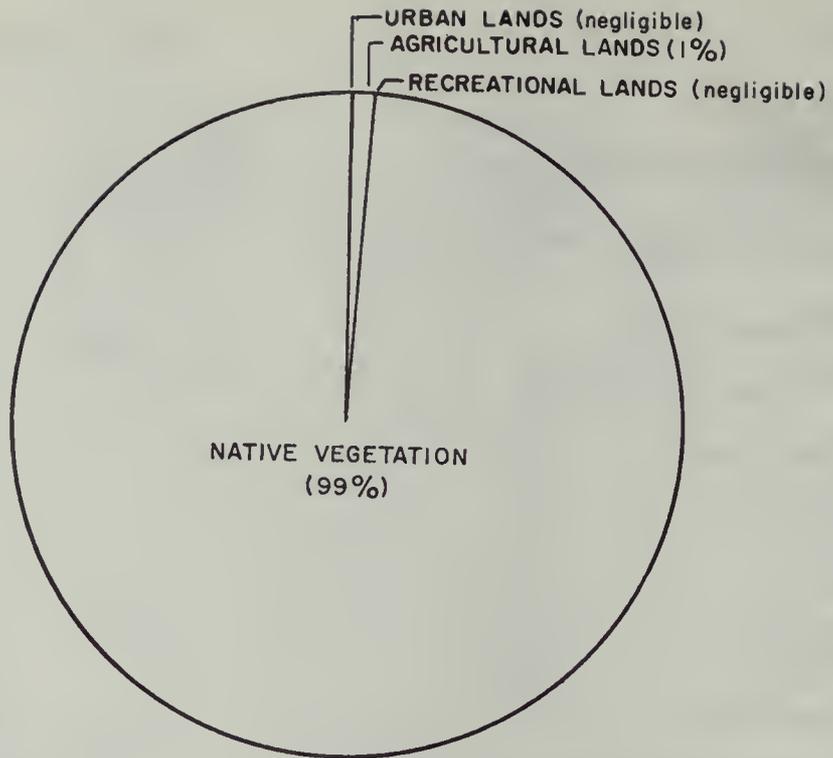


Figure 1
1958 LAND USE

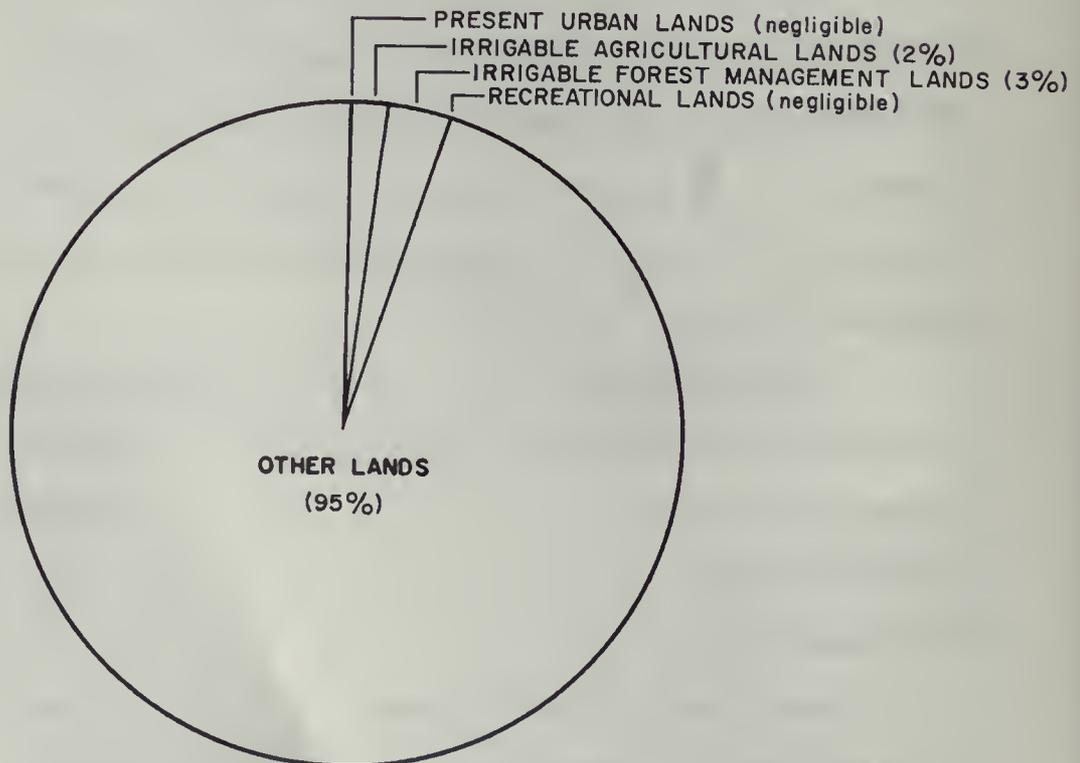


Figure 2
CLASSIFICATION OF LANDS

APPENDIX A

STATEWIDE WATER RESOURCES AND WATER
REQUIREMENTS PROGRAM

APPENDIX A

STATEWIDE WATER RESOURCES AND WATER REQUIREMENTS PROGRAM

California's major water problem today is that of development and delivery of supplemental water supplies to meet increasing water requirements throughout the State. The problem involves (1) the regulation of seasonal and cyclic fluctuation of streamflow to meet demand schedules in the areas of origin, and (2) the transmission of regulated surplus flows over long distances to areas of deficiency. The development and long distance transfer of water is currently accomplished by such major facilities as the federal Central Valley Project and the Colorado River Aqueduct of The Metropolitan Water District of Southern California. However, such development and transfer will be considerably broadened in scope by the State Water Facilities.

Consumptive water requirements of the State on a basinwide basis were estimated in State Water Resources Board Bulletin No. 2, "Water Utilization and Requirements of California," June 1955. However, to provide for local water needs while considering specific export projects, more detailed information must be made available on present and projected future water requirements of the areas in which the projects are to be built. This will necessitate the considerably more detailed collection and analysis of data on hydrology, land use and land capability, and economics.

Recognizing that additional information is needed if the water needs of areas of origin are to be adequately protected in large-scale water development projects, the 1956 Legislature authorized an investigation to determine the water resources and water requirements of

the respective watersheds in the State. The authorization is contained in Chapter 61, Statutes of 1956, as amended by Chapter 2025, Statutes of 1959. This legislation is codified in Section 232 of the Water Code as follows:

"232. The Legislature finds and declares that in providing for the full development and utilization of the water resources of this State it is necessary to obtain for consideration by the Legislature and the people, information as to the water which can be made available for exportation from the watersheds in which it originates without depriving those watersheds of water necessary for beneficial uses therein. To this end, the department is authorized and directed to conduct investigations and hearings and to prepare findings therefrom and to report thereon to the Legislature at the earliest possible date with respect to the following matters:

(a) The boundaries of the respective watersheds of the State and the quantities of water originating therein;

(b) The quantities of water reasonably required for ultimate beneficial use in the respective watersheds;

(c) The quantities of water, if any, available for export from the respective watersheds;

(d) The areas which can be served by the water available for export from each watershed; and

(e) The present use of water within each watershed together with the apparent claim of water right attaching thereto, excluding individual uses of water involving diversions of small quantities which, in the judgment of the Director of Water Resources, are insufficient in the aggregate to materially affect the quantitative determinations included in the report.

"Before adopting any findings which are reported to the Legislature, the department shall hold public hearings after reasonable notice, at which all interested persons may be heard."

For purposes of this inventory, the State has been divided into 12 major hydrographic areas. These areas, in turn, have been subdivided into hydrographic units generally comprising watersheds of individual rivers.

Basic data on present water uses, together with the apparent claim of water right attached thereto, present land uses, history of land and water uses, and the classification of lands will be presented separately for each hydrographic unit in this series of reports on land and water use. Bulletin No. 94-6, "Land and Water Use in Klamath River Hydrographic Unit", is the sixth of a series reporting the results of these surveys.

At a future date, estimates, largely based on the land and water use surveys, will be made of quantities of water reasonably required for future beneficial uses in each watershed. The quantity of water potentially available for export from each watershed will be determined after allowances are made for the satisfaction of the local requirements and prior rights to divert water to other areas. For those watersheds in which no exportable water is available the water supply deficiency will be determined. These estimates will be published as they become available.

The calculations of future water requirements will be based, in part, on predicted future land uses derived from land classification surveys, economic studies, population forecasts, industrial and agricultural development, and recreational needs. Agricultural water requirements will be based on unit water use by the various predicted crop types. Urban and recreational requirements will be based on per capita water use values. Fish and wildlife requirements will be based on minimum streamflow needed or on water demands for wildlife area. Industrial water requirements will be based on measured water deliveries to various types and sizes of industries now existing. In forecasting future industrial development, water quality problems will be given full consideration.

Water resources will be determined from records of all stream gaging stations, including new stations which were established for this and other investigations of the department. The new stations were generally constructed on streams which originate in the smaller watersheds for which runoff data are necessary but for which no data have been available.

APPENDIX B
REPORTS ON RELATED INVESTIGATIONS
AND OTHER REFERENCES

APPENDIX B

REPORTS ON RELATED INVESTIGATIONS
AND OTHER REFERENCES

California State Chamber of Commerce. "Economic Survey of California and its Counties." 1958.

California State Department of Natural Resources, Division of Mines. "Mineral Information Service." 1950-60.

----. "Mineral Commodities of California." Bulletin No. 156, 1950, and Bulletin No. 176, 1956.

California State Department of Public Works, Division of Water Resources. "Seiad Creek Adjudication--Order of Determination." October 1949.

California State Department of Water Resources. "Northeastern Counties Investigation." Bulletin No. 58. June 1960.

----. "State Water Right Applications for Unappropriated Water, Assignment Thereof, Reservations for Counties of Origin, and Other Related Matters." January 1959.

----. "Klamath River Basin Investigation." Bulletin No. 83. May 1960.

California State Water Resources Board. "Water Resources of California." Bulletin No. 1. 1951.

----. "Water Utilization and Requirements of California." Bulletin No. 2. 1955.

Jones, Joseph R. "Saddle Bags of Siskiyou." 1953.

"Klamath River Basin Compact," Water Code Sec. 5900-5901.

McBeth, Frances Turner. "Lower Klamath County." 1950.

Rensch, H. E. and E. G. and Hoover, Mildred B. "Historic Spots in California." 1933.

Siskiyou County Historical Society. "The Siskiyou Pioneer in Folklore and Fiction." 1947-59.

United States Department of Agriculture, Forest Service. "Area and Ownership of Forest Land in Humboldt County." Forest Survey Release No. 16. 1952.

----. "Area and Ownership of Forest Land in Siskiyou County." Forest Survey Release No. 8. 1950.

----. "Area and Ownership of Forest Land in Del Norte County." Forest Survey Release No. 18. 1953.

----. "Forest Statistics for Coast Range, Pine Subregion in California." Forest Survey Release No. 12. 1952.

----. "Forest Statistics for Coast Range, Redwood-Douglas Fir Subregion in California." Forest Survey Release No. 19. 1953.

United States Department of Agriculture, Office of Experiment Station.
"Irrigation Resources of Northern California and their Utilization."
1913.

United States Census of Population. 1880-1960.

University of California Agricultural Experiment Station. "Timber in Humboldt County." Bulletin No. 748. 1955.

LAND AND WATER USE BULLETINS

Bulletin No. 94 Series

| Bulletin No. | Hydrographic Unit Covered | Year of Survey |
|--------------|-----------------------------|----------------|
| 94-1 | Tule River | 1957 |
| 94-2 | Trinity River | 1957 |
| 94-3 | Yuba-Bear Rivers | 1957-58 |
| 94-4 | Smith River | 1958 |
| 94-5 | Shasta-Scott Valleys | 1958 |
| 94-6 | Klamath River | 1958 |
| 94-7 | Mad River-Redwood Creek | 1958 |
| 94-8 | Eel River | 1958-59 |
| 94-9 | Lost River-Butte Valley | 1959 |
| 94-10 | Mendocino Coast | 1959 |
| 94-11 | Russian River | 1959 |
| 94-12 | Sacramento Valley West | 1959 |
| 94-13 | Putah-Cache Creeks | 1960 |
| 94-14 | American River | 1960 |
| 94-15 | Sacramento Valley Floor | 1961 |
| 94-16 | Sacramento Valley Northeast | 1962 |
| 94-17 | Feather River | 1962-63 |
| 94-18 | Shasta Lake | 1963 |

Bulletins Similar to the Bulletin 94 Series

| Bulletin No. | County or Drainage Area Covered | Year of Survey |
|--------------|--|----------------|
| 70 | Orange County | 1964 |
| 71 | Upper Santa Ana River Drainage | 1964 |
| 101 | Desert Areas of Southeastern California | 1958 |
| 102 | San Diego County | 1963 |
| 103 | San Luis Obispo and Santa Barbara Counties | 1959 |
| 24-50 | Coastal Los Angeles County | 1960 |
| 121 | Southern Lahontan Area | 1961 |
| 122 | Ventura County and Upper Santa Clara River Drainage | 1961 |

APPENDIX C

LEGAL CONSIDERATIONS

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APPENDIX C

LEGAL CONSIDERATIONS

There are set forth in the following paragraphs brief general statements with respect to the California law of water rights to supplement and to provide a background for information on water rights contained in Chapter II. Also included is a review of litigation involving water rights and a tabulation of currently valid applications to appropriate water within the Klamath River Hydrographic Unit filed with the State Water Rights Board.

California Water Rights

In California, water rights convey only the right to use water. Until absolute possession of water is acquired by some artificial means, no one owns water. However, the owner of water rights is entitled to enjoy them without interference by other users who have rights which are inferior to his.

Five kinds of water rights are recognized in California. These are riparian, overlying, appropriative, prescriptive, and pueblo. Riparian rights attach to surface water and water flowing in known and definite subterranean channels, while overlying rights attach only to underground water. Appropriative and prescriptive rights may be acquired in either surface or underground waters. Pueblo rights are now exercised in California only by the cities of Los Angeles and San Diego, each of which has a paramount right to satisfy its full needs from the stream system of waters flowing by the former Mexican pueblo from which each sprang.

All water rights, both to surface and to underground water, are subject to the doctrine of reasonable beneficial use expressed in Section 3

of Article 14 of the California Constitution, and Water Code Sections 100 and 101. This doctrine limits water rights to the quantity of water reasonably required for beneficial use and prohibits waste, unreasonable use, and unreasonable methods of use or diversion.

Riparian Rights

A riparian right entitles the owner of lands which border or front on a watercourse to take water therefrom for use on such lands within the same watershed. However, the rights of the owner of riparian land are limited to the reasonable beneficial use of the natural flow of water which passes his land. Riparian rights pass with the title to the land, unless expressly reserved or excepted from the interests transferred, and are not gained by use or lost by mere nonuse. Although the land must be contiguous to the watercourse, the length of the frontage is not determinative of the rights; a large tract with a small frontage on a stream may be riparian to the stream. But the original grant determines the character of the land, and only the smallest contiguous tract held under a single title retains riparian rights.

A riparian owner has no right to any specified amount of the water of a stream as against other riparian owners. He has rights only to a reasonable share from the stream -- a correlative right which he shares mutually with other riparian owners. In the event of insufficient water for all, the available supply must be apportioned, except that an upper riparian owner may take the whole supply if necessary for domestic use. As against appropriators, the riparian owner has the paramount right to all the water of the stream which he can put to reasonable beneficial use, but that is the extent of his right, and the appropriator can take the surplus.

Riparian rights do not authorize use of water on nonriparian land, nor do they permit the seasonal storage of water. Neither do they prevent temporary appropriation by others of water not presently needed for use on riparian land.

A parcel of land becomes nonriparian when severed from land bordering the stream, unless the riparian rights are reserved for the severed parcel by the grantor. Riparian rights may be destroyed when purportedly transferred apart from the land by grant, contract, or condemnation, and may be impaired or lost through prescription.

Overlying Rights

Owners of lands overlying a common underground water supply have the right to withdraw water for reasonable beneficial use on their overlying lands. Such overlying rights are analogous to riparian rights, in that both are based on ownership of land, and the rights of each overlying owner are mutual and correlative to the rights of all other owners. In the case of insufficient water to fully supply the requirements of all, the available supply must be equitably apportioned.

Overlying rights do not include use of water on nonoverlying land. However, surplus water not presently required for beneficial use on overlying land, and which may be withdrawn without creating an overdraft on the ground water supply, may be appropriated for use on nonoverlying land. But the overlying rights are paramount and all appropriative rights are subject to the future requirements of overlying land.

Appropriative Rights

An appropriation of water is any taking of water for other than riparian or overlying uses, whether such taking is from the underground by

wells or from surface streams by direct diversion or storage. An appropriator, in the legal sense, is one who initially takes water without possessing rights which are based on the ownership of land. As between appropriators, the one first in time is the first in right. A prior appropriator may take all the water he needs up to the full amount to which he is entitled before a later appropriator may take any.

Normally, appropriative rights are inferior to riparian rights. An exception to this is the case of an appropriation of water diverted from streams flowing through vacant public lands before the riparian lands were withdrawn from the domain of the United States. The appropriative diversions or the lands they serve may be either upstream or downstream from the riparian lands. Any water not needed for the reasonable beneficial uses of those having prior rights may properly be appropriated.

No formal or statutory procedure is or ever has been prescribed or required in this state for those who take water by means of wells from underground percolating waters or underground basins. An appropriative right to take surplus water from such sources is acquired by extracting such water from the underground and applying it to beneficial uses.

Provided the development and application to use are completed with reasonable diligence, the priority of the right as against another appropriator relates back to the first substantial act toward putting the water to use or to the date of application. Until 1872, water flowing in natural streams was appropriated by taking the water.

Sections 1410 through 1422 of the Civil Code, enacted in 1872, established a permissive procedure for perfecting an appropriation of surface water. Provision was made for posting a notice of appropriation at the proposed point of diversion and recording a copy with the county recorder. If the statutory

procedure were followed and the appropriation completed with due diligence, priority related back to the date of posting; otherwise, priority was established only when the water was put to beneficial use.

Since the effective date of the Water Commission Act of 1913, December 19, 1914, appropriation of surface water and water in subterranean streams flowing in known and definite channels has been by compliance with required statutory procedure. An appropriation of such water now can be made in accordance with the provisions of Part 2, Division 2 of the Water Code (Water Code Sections 1200 to 1801). An application to appropriate unappropriated water must be filed with the State Water Rights Board. If the application is approved, a permit is issued authorizing the appropriation. When the appropriation has been completed, an inspection is made and a license is issued, to the extent of beneficial use, provided the terms and conditions of the permit have been fulfilled. The priority of a permit or license relates back to the date of the application.

A right to appropriate water may be lost either by abandonment or by continuous nonuse. To constitute abandonment, there must be concurrence of act and intent, wherein possession is relinquished with no intent to resume it for a beneficial use. Abandonment is, therefore, always voluntary and factual. In the case of an appropriation initiated prior to 1914, continuous nonuse for a period of five years results in the loss of appropriative water rights. In the case of appropriative rights acquired pursuant to the Water Commission Act or the Water Code, continuous nonuse for a period of only three years may result in loss of such rights.

Where ground water and surface water are interconnected, one acting as a tributary to the other, both are treated as part of a common supply and users of water from either source are entitled to protection from substantial

injury as a result of use by others of water from the other source. Thus, an owner of land riparian to a stream may have his right to the use of water protected against impairment by an appropriator of percolating ground water tributary to the stream and required for the maintenance and support of its flow. Likewise, where water from a stream percolates to a ground water basin or stratum, the owner of land overlying the ground water supply may be protected from an appropriation of water from the stream if this causes a substantial impairment of the ground water supply. As between riparian use of surface water and overlying use of ground water tributary to the stream, a sharing of the available water supply on the basis of reasonable beneficial use should be made.

Prescriptive Rights

It is possible to appropriate surface or ground water which is presently needed by others to satisfy riparian, overlying, or prior appropriative rights. Such appropriations may ripen into prescriptive rights where the use is actual, open and notorious, hostile and adverse to the original owners, continuous and uninterrupted for the statutory period of five years, made under claim of right, and with payment of taxes whenever such have been levied on the water rights. Absence of any of these essentials precludes the acquisition of prescriptive water rights.

Prescription of a right thus requires that, for a period of five years, the rightful owner either knows or should know of the adverse taking and fails to take any physical or legal steps to interrupt such taking. Irrespective of the needs or demands of the riparian, overlying, or prior appropriative user, an absolute right to only a fixed amount of water may be

acquired by prescription. The quantity of such a right is determined by beneficial use. However, present use is the measure of the prescriptive right, and future needs cannot be included.

Riparian rights, overlying rights, appropriative rights, and prescriptive rights may be lost or diminished by prescription. While there is sufficient water flowing in a stream to supply the wants of all parties, the use of the water by anyone does not deprive the others of their water supply and, hence, is not an invasion of their rights. The same principle applies to a downstream diversion of water as against the rights of an upstream riparian landowner or prior appropriator. At times when the safe yield of a ground water basin exceeds the needs of overlying landowners and appropriators, their prior rights are not invaded by a later appropriative taking of water from the underground supply. The later appropriation becomes adverse only when the ground water basin is overdrawn; that is, when the annual draft exceeds the safe annual yield. Although neither an overlying owner nor a prior appropriator may prevent a taking of surplus water, either the owner or the appropriator may institute legal proceedings to safeguard the supply once a surplus ceases to exist, and may enjoin any additional use beyond the point of safe yield. Since prescriptive rights can only be acquired to non-surplus water, these rights cannot ordinarily be acquired against the future needs of riparian or overlying owners.

The prior appropriator, lower riparian, or overlying owner may protect his rights for his present needs against an adverse appropriator by actually taking the needed water before the five-year period has run, or by the aid of the courts in the form of a declaratory judgment or injunction within the five-year period.

Determination of Water Rights

Under provisions of the Water Code, actions brought before either state or federal courts which involve determination of rights to the use of water may, at the court's discretion, be referred to the State Water Rights Board. Under provisions of Water Code Section 2000, the court may appoint the board to referee "any or all issues involved in the suit", or under Section 2001, it may limit the reference to "investigations of and report upon any or all physical facts involved". This reference procedure may be followed in suits involving either surface or ground waters, or both.

An alternative procedure for adjudication of rights to the use of water of streams, lakes, and other bodies of water, is available upon petition to the State Water Rights Board, but the method excludes the determination of rights to take water from an underground supply other than from a subterranean stream flowing through known and definite channels. Water Code Sections 2500 to 2900, inclusive, authorize the initiation of such proceedings.

Court actions which involve a determination of all the relative rights to the use of water of an entire stream or stream system and/or ground water basin afford a basis for distribution of water after decrees under watermaster service. Water users may secure the services of the Department of Water Resources under Water Code Sections 4000 to 4407, inclusive, in making distribution of the water to them according to their respective rights as determined by the court.

Of the adjudications of water rights in the Klamath River Hydrographic Unit, which are described below, none has involved references to the State Water Rights Board or its predecessor agencies, nor has any state watermaster service been established.

Litigation Concerning Local Water Rights

Seiad Creek Adjudications

The first legal proceedings in the history of conflict in the matter of use of water from Seiad Creek and its tributaries were entered on June 18, 1919, in the case of Ariel Lowden vs Davis and Davis, Superior Court, Siskiyou County. No. 7484, in which the rights between the plaintiff and defendants were then determined.

Subsequent conflict was evidenced by the number of protests filed against Application No. 1539 issued on November 28, 1919, and numerous other complaints relative to the use of water of Seiad Creek received by the Department since that time.

Litigation was again commenced in 1941 in an action entitled "Arroyo Seco Gold Dredging Company vs Shadburne", Superior Court, Siskiyou County, No. 11044, in which all the claimants on the stream system were eventually brought into the case.

The case was allowed to lapse in 1946 and on December 23, 1946, a petition for the determination of the rights of the claimants, under Sections 2500 to 2865, inclusive, of the Water Code, signed by the plaintiff and defendants and a substantial majority of the claimants on the stream system, was submitted to the Department (then the Division of Water Resources).

The petition was granted on January 28, 1947, and an examination and field investigation were conducted on streamflows of the Seiad Creek system, of diversion systems from the stream, of lands irrigated and irrigable therefrom, of all other uses of water and other data and information essential to the proper determination of the rights and of the use of water by the claimants.

A trial distribution of water was conducted during the 1948 irrigation season and continued through the 1949 season, upon which agreement was

reached by the parties involved and entered into by all the claimants on April 21, 1949.

A report of these proceedings, dated October 31, 1949, is on file with the State Water Rights Board in Book 2, Order of Determinations starting on page 105.

Klamath River Basin Compact

The development and use of water from the Klamath River, an interstate stream, is subject to the Klamath River Basin Compact between California and Oregon. This agreement was negotiated by California pursuant to the authority conferred by Chapter 1473, California Statutes of 1953, page 3085. It was ratified by both states on April 17, 1957, consented to by Congress on August 30, 1957 (71 Stat. 497), and became effective on September 11, 1957. The Compact has been codified in the California Water Code as Sections 5900-5901

The compact permits development in the upper basin that may impair or alter the regimen of the river flow into California. Under certain conditions of the compact, additional land may be developed in the upper basin with a superior right to water with respect to claim of rights downstream initiated subsequent to the effective date of the compact. The extent that development will be accomplished to use water under claim of this superior right cannot be determined at this time.

Applications to Appropriate Water

Applications to appropriate water within the Klamath River Hydrographic Unit filed with the State Water Rights Board and active on June 30, 1960, are summarized in Table C-1, page C-12. Diversion identification numbers, explained in Chapter II, are shown corresponding to the appropriate application where a significant diversion was made under the application.

TABLE C-1
APPLICATIONS TO APPROPRIATE WATER IN
KLAMATH RIVER HYDROGRAPHIC UNIT
 (Filed with State Water Rights Board as of June 30, 1960)

| Application Number | Date Filed | Present Owner | DWR Diversion Number | Source | Location of Point of Diversion | | | | Amount | Period of Diversion | Purpose | Stipula* | | |
|--------------------|------------|---|---------------------------|---|--------------------------------|-----|------|-----|--------|---------------------|-----------|-------------------------------|--------------------------------------|----------|
| | | | | | 1/4 | 1/4 | Sec. | Tp. | | | | | R. | S. B. M. |
| 156 | 10/9/15 | William S. Bishop | -- | East Fork of Taylor Creek | NE | SW | 12 | 38N | 11W | MD | 12.50 cfs | Jan 1-Dec 31 | Mining | L-108 |
| 583 | 2/5/17 | William S. Bishop | -- | Taylor Creek | NW | SW | 12 | 38N | 11W | MD | 12 cfs | Jan 1-Dec 31 | Mining | L-119 |
| 1124 | 12/2/18 | Jess R. Deavilla | 47N/9W-24H | Beaver Creek | SW | NW | 19 | 47N | 8W | MD | 2.56 cfs | Mar 1-Nov 1 | Irrigation, 65 acres | L-1351 |
| 1942 | 7/28/20 | State of California Department of Fish and Game | -- | Fall Creek | SW | NW | 30 | 48N | 4W | MD | 3.12 cfs | Jan 1-Dec 31 | Fish culture | L-335 |
| 1943 | 7/28/20 | State of California Department of Fish and Game | -- | Fall Creek | SW | NW | 30 | 48N | 4W | MD | 3.12 cfs | Jan 1-Dec 31 | Fish culture | L-336 |
| 1944 | 7/28/20 | State of California Department of Fish and Game | -- | Fall Creek | SW | NW | 30 | 48N | 4W | MD | 3.75 cfs | Jan 1-Dec 31 | Fish culture | L-337 |
| 2226 | 2/21/21 | L. L. and H. W. Lichens, M. W. Galtier, George Math, Alice, and Clyde O. Smith, and Albert R. Hegler | 47N/8W-31P | Beaver Creek | SE | NW | 31 | 47N | 8W | MD | 9.58 cfs | Jan 1-Dec 31 Apr 1-Sept 30 | Domestic Irrigation, 237 acres | L-1163 |
| 2863 | 6/3/22 | Manuel, Ernest, and Andrew Lewis | -- | Mawah Creek | NE | NE | 12 | 10W | 3E | H | 0.25 cfs | Jul 1-Sept 15 | Irrigation, 13 acres | L-858 |
| 2973 | 8/8/22 | Etta O. Eneels | 46N/4W-15DL | Parker Camp Canyon tributary to Bogus Creek | NE | NW | 15 | 46N | 4W | MD | 5 cfs | May 1-July 15 | Irrigation, 504.5 acres | L-913 |
| 3015 | 8/31/22 | E. L. Wright | -- | Tributary to Sluff Creek | NW | NW | 12 | 10N | 4E | H | 0.37 cfs | May 1-Oct 1 | Irrigation, 12 acres | L-2097 |
| 3058 | 9/8/22 | Estate of George A. Milns | -- | Masick Creek | SE | SE | 9 | 40N | 10W | MD | 0.1 cfs | Jan 1-Dec 31 | Mining and domestic | L-372 |
| 3431 | 5/21/23 | Earl K. Effie A., Keith N., and Leola M. Lee | 16W/7E-11L | Cads Creek | SE | NE | 1 | 16W | 7E | H | 0.37 cfs | May 1-Oct 31 | Domestic and irrigation, 11 acres | L-853 |
| 3697 | 10/29/23 | S. D. Haworth | 47N/7W-12H 47N/7W-12H2 | Moore Gulch | NE | SE | 12 | 47N | 7W | MD | 0.5 cfs | Mar 15-Jun 30 | Irrigation, 40 acres | L-804 |
| 3724 | 11/21/23 | M. T. Brown and W. A. Hill | -- | Little South Fork of Indian Creek | SE | SE | 27 | 17N | 6E | N | 0.17 cfs | Jun 1-Sept 30 | Irrigation, 14 acres | L-619 |
| 3945 | 4/8/24 | Christian Bollhorn | -- | Tributary to South Tenysok Creek | NE | SW | 32 | 12N | 6E | H | 0.1 cfs | May 1-Nov 1 | Domestic and irrigation, 8 acres | L-1327 |
| 4053 | 6/26/24 | Patricia Judge and Alex Markow | 40W/11W-33P | Eddy Gulch | NE | SW | 33 | 40W | 11W | MD | 3 cfs | Nov 1-Jul 1 | Mining | L-962 |
| 4213 | 9/15/24 | Jess R. Deavilla | 47N/9W-24H | Beaver Creek | SW | NW | 19 | 47N | 8W | MD | 1.09 cfs | Apr 1-Oct 31 | Irrigation, 30 acres | L-1352 |
| 4623 | 6/11/25 | George T. Woodson | -- | Spring tributary to Klamath River Tributary to Klamath River | SE | SE | 8 | 11W | 6E | N | 0.09 cfs | Apr 15-Oct 1 | Domestic and irrigation, 6 acres | L-1162 |
| 4755 | 8/28/25 | John A. Cross | -- | Bear Creek | NE | SW | 33 | 15W | 8E | N | 0.17 cfs | Apr 1-Oct 1 | Irrigation, 7 acres | L-952 |
| 5040 | 6/1/26 | Laurence M. Knudsen, Sr. | -- | Spring tributary to Klamath River | NE | SW | 22 | 12N | 6E | H | 0.012 cfs | Apr 1-Sept 1 | Irrigation, 1 acre | L-795 |
| 5079 | 6/30/26 | S. H. Nordstrom | -- | LeRoy Gulch | SE | NW | 25 | 10W | 5E | H | 3 cfs | Jan 1-Dec 31 | Mining and domestic | L-1717 |
| 5257 | 11/5/26 | Leo L. and Ross L. Brown | 10W/7E-11P | Hammel Creek tributary to Northmeier Creek | NE | SW | 4 | 10W | 7E | R | 0.62 cfs | May 1-Oct 15 | Domestic and irrigation, 25 acres | L-892 |

* P - Indicates permit number of application approved. I - Indicates license number of right confirmed. Incomplete - Indicates application not yet complete. Pending - Indicates application complete but not yet approved.

TABLE C-1 (Continued)
 APPLICATIONS TO APPROPRIATE WATER IN
 KLAMATH RIVER HYDROGRAPHIC UNIT
 (Filed with State Water Rights Board as of June 30, 1960)

| Application Number | Date Filed | Present Owner | DWR Diversion Number | Source | Location of Point of Diversion | | | | | | Amount | Period of Diversion | Purpose | Status |
|--------------------|------------|---|----------------------|--|--------------------------------|-----|------|-----|-----|---------|------------|------------------------------|---------------------------------------|--------|
| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | B. & M. | | | | |
| 5340 | 2/2/27 | Estate of Coleta A. Otterson | -- | Deason Creek | SE | NW | 2 | 11N | 6E | H | 0.1 cfs | May 15-Oct 1 Jan 1-Dec 31 | Irrigation, 7 acres Domestic | L-824 |
| 5505 | 6/2/27 | Harold B. and Eloise A. Linko, Richard E. and Bonnie I. Wain | -- | Fang High Creek | NW | NE | 14 | 10N | 7E | H | 650 gpd | Jan 1-Dec 31 | Domestic | L-1026 |
| 5816 | 2/21/29 | Patricia Judge | 40N/11W-33FL | Eddy Gulch | NW | SE | 33 | 40N | 11W | MD | 3 cfs | Nov 1-May 15 | Mining | L-1188 |
| 5877 | 4/10/28 | C. H. Barton and Margaret B. Patterson | -- | Springs tributary to Klamath River | SW | NE | 22 | 46N | 10W | MD | 16,000 gpd | Apr 1-Oct 1 | Domestic and irrigation, 2 acres | L-2215 |
| 5878 | 4/10/28 | C. H. Barton | -- | Springs tributary to Klamath River | NE | NE | 22 | 46N | 10W | MD | 14,000 gpd | Apr 1-Oct 1 | Domestic and irrigation, 2 acres | L-2216 |
| 6140 | 12/15/28 | Charles D. and Ruth M. Pratt | -- | East Fork Scott River | NE | SW | 13 | 40N | 8W | MD | 1.25 cfs | Jun 1-Aug 1 | Irrigation, 65 acres | L-325 |
| 6166 | 1/19/29 | United States Six Rivers National Forest | -- | Spring tributary to Bluff Creek | SW | SW | 19 | 10N | 5E | H | 2,500 gpd | Jan 1-Dec 31 | Domestic | L-1509 |
| 6372 | 7/12/29 | Mary L. Foxen | -- | Tributary to Northwelder Creek | SE | SW | 9 | 10N | 7E | H | 0.025 cfs | Jan 1-Dec 31 | Domestic and irrigation, 3 acres | L-1432 |
| 6427 | 9/3/29 | R. M. and Ryan Watson | -- | Oak Flat Creek | SW | SW | 32 | 16N | 7E | H | 0.36 cfs | Dec 1-Jul 1 | Domestic and power | L-2330 |
| 6456 | 10/9/29 | R. L. Chaffey | 14N/1E-28N1 | Branch Creek | SW | SW | 28 | 14N | 1E | H | 0.14 cfs | Aug 1-Sept 31 | Domestic and irrigation, 11 acres | L-2318 |
| 6766 | 8/14/30 | E. F. and Beatrice Baker | -- | Tributary to Bad Gap Creek | NW | SE | 15 | 10N | 5E | H | 27,400 gpd | Apr 15-Oct 1 | Domestic and irrigation, 6 acres | L-1499 |
| 7123 | 11/12/31 | Ernest C. and Dorothy Flackus | -- | Tanner Gulch | SE | SE | 11 | 17N | 6E | H | 1.0 cfs | Jan 1-Dec 31 | Mining | L-1608 |
| 7211 | 3/11/32 | Fred S. Bair | -- | Bair Creek tributary to Klamath River | SE | SE | 36 | 10N | 4E | H | 7,200 gpd | Jan 1-Dec 31 | Domestic | L-2224 |
| 7282 | 6/6/32 | Walter and Nellie Shumlin | 47N/8W-31FL | Beaver Creek | SE | NW | 31 | 47N | 8W | MD | 1.0 cfs | Jan 1-Dec 31 | Power | L-1656 |
| 7342 | 8/9/32 | Marion M. Kniffen | 17N/8E-10R1 | Cole Creek tributary to South Fork Indian Creek | SE | SE | 10 | 17N | 6E | H | 1.0 cfs | Jan 1-Dec 31 | Mining | L-1882 |
| 7376 | 9/12/32 | H. C. and E. M. Hamon, B. C. Gayen, T. P. Shulte, and J. J. Kennedy | -- | Walker Creek | SW | NW | 18 | 46N | 11W | MD | 0.25 cfs | Apr 1-Oct 1 | Domestic and irrigation, 2.9 acres | L-1956 |
| 7377 | 9/12/32 | H. C. Hamon | 46N/11W-18E1 | Walker Creek | SW | NW | 18 | 46N | 11W | MD | 0.67 cfs | Apr 1-Oct 1 | Domestic and irrigation, 20 acres | L-1957 |
| 7396 | 9/29/32 | Douglas Eastlick | -- | North Russian Creek | SW | NE | 19 | 40N | 10W | MD | 0.075 cfs | Apr 15-Sept 15 | Domestic and irrigation, 3 acres | L-1500 |
| 7406 | 10/13/32 | M. H. Bush | -- | Tom Payne Creek | SE | SW | 4 | 11N | 7E | H | 3 cfs | Jan 1-Dec 31 | Mining | L-2649 |
| 7423 | 11/1/32 | Flora Loulee Cook | -- | Twain Gulch | NW | SE | 22 | 17N | 7E | H | 0.025 cfs | Jan 1-Dec 31 | Domestic and mining | L-1960 |
| 7529 | 3/31/33 | E. S. Dowling and Margaret Dowling Johnson | -- | Devile Hole Creek | SE | NE | 26 | 44N | 11W | MD | 0.1 cfs | Jan 1-Dec 31 Apr 1-Nov 1 | Domestic Irrigation, 5 acres | L-1795 |
| 7573 | 6/3/33 | Robert and Terry L. Hawley | -- | Spring tributary to Klamath River | NW | NE | 35 | 46N | 11W | MD | 4,000 gpd | Jan 1-Dec 31 | Domestic | L-1659 |
| 7678 | 9/20/33 | State of California Division of Highways | -- | Pat Creek | SW | NE | 27 | 46N | 11W | MD | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1761 |
| 7679 | 9/20/33 | State of California Division of Highways | -- | Sweetwater Spring | NE | SE | 6 | 16N | 8E | MD | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1762 |

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| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | B. B. M. | | | | |
| 7680 | 9/20/33 | State of California Division of Highways | -- | Niagara Falls Stream tributary to Klamath River | SE | NW | 29 | 14W | 6E | MD | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1835 |
| 7681 | 9/20/33 | State of California Division of Highways | -- | Browns Creek | NE | SE | 30 | 15N | 7E | H | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1836 |
| 7682 | 9/20/33 | State of California Division of Highways | -- | Yumaqua Spring | SE | SW | 17 | 13W | 6E | H | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1763 |
| 7683 | 9/20/33 | State of California Division of Highways | -- | Little Falls Creek | NE | NE | 9 | 10N | 5E | H | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1764 |
| 7684 | 9/20/33 | State of California Division of Highways | -- | Five Mile Creek | SE | SW | 16 | 11W | 6E | H | 1,000 gpd | Jan 1-Dec 31 | Recreational | L-1765 |
| 7685 | 9/21/33 | Curtis L., Melvin M., and L. F. Bell | -- | Little South Fork Indian Creek | SW | SE | 15 | 17N | 6E | H | 1 cfs | Jan 1-Dec 31 | Mining, power, and domestic | L-1746 |
| 7789 | 12/26/33 | David N. Husy | 17N/7E-4G1 | East Fork Indian Creek | SW | NE | 4 | 17W | 7E | H | 3 cfs | Jan 1-Dec 31 | Power | L-2000 |
| 7803 | 1/6/34 | William C. and Margaret Van Fleet | -- | Dark Gulch | NW | NW | 10 | 10W | 5E | H | 0.077 cfs | May 1-Oct 31 | Domestic, fire protection, and irrigation, 10 acres | L-2229 |
| 7884 | 3/28/34 | United States Klamath National Forest | -- | Kelsey Creek | SE | SE | 20 | 44N | 11W | MD | 8,000 gpd | Mar 1-Dec 1 | Domestic | L-2148 |
| 7911 | 4/19/34 | Robert S. and Pearl Z. Crooks | -- | Tennessee Gulch | NW | NW | 14 | 17N | 6E | H | 1.0 cfs | Jan 1-Dec 31 | Mining and domestic | L-1989 |
| 7991 | 6/26/34 | Samuel E. and Avis L. Coleman | -- | Hacks Creek | Lot | 1 | 1 | 45N | 11W | MD | 3,000 gpd | Jan 1-Dec 31 | Domestic | L-1809 |
| 7993 | 6/27/34 | C. F. Starr and L. M. Bigbee | -- | East Fork Whites Gulch | SW | NE | 1 | 39N | 11W | MD | 2.5 cfs | Jan 1-Dec 31 | Mining and domestic | L-2638 |
| 8053 | 8/6/34 | Basil L. and Zella L. Price | -- | Boulder Creek | SW | SE | 27 | 44N | 11W | MD | 3,700 gpd | Jan 1-Dec 31 | Recreational and domestic | L-3258 |
| 8139 | 10/22/34 | Happy Camp Improvement, Inc. | 16N/7E-14M1 | Elk Creek | NW | NW | 25 | 16N | 7E | H | 1.0 cfs | Jan 1-Dec 31 | Municipal | L-2988 |
| 8148 | 10/30/34 | Rose and Leo Brown | 10N/7E-4F1 | Hammel Creek | NE | SW | 4 | 10N | 7E | H | 2 cfs | Nov 1-June 30 | Mining | L-2108 |
| 8219 | 1/21/35 | Basil L. and Zella L. Price | 44N/11W-27K1 | Boulder Creek | SW | SE | 27 | 44N | 11W | MD | 2 cfs | Jan 1-Dec 31 | Power | L-3259 |
| 8355 | 6/10/35 | Mrs. Charles N. Reff | -- | Thompson Gulch | NW | SE | 15 | 37N | 10W | MD | 0.5 cfs | Apr 1-Oct 1 | Domestic and irrigation, 8 acres | L-2373 |
| 8364 | 6/20/35 | Lester B. Jacobson | 45N/8W-10R1 | Middle Fork Humbag Creek | SE | SE | 10 | 45N | 8W | MD | 1.0 cfs | Feb 1-Aug 1 | Mining | L-2468 |
| 8475 | 10/18/35 | United States Klamath National Forest | -- | Spring tributary to Klamath River | NE | SW | 8 | 13N | 6E | H | 2,200 gpd | Jan 1-Dec 31 | Domestic | L-2149 |
| 8613 | 3/18/36 | Hilo C. and Loreta Walker | -- | Baker Gulch | NW | SW | 15 | 17N | 7E | H | 150 gpd | Sept 1-Jul 1 | Domestic | L-2117 |
| 8645 | 4/24/36 | Northern California, Nevada District Assemblies of God | -- | Spring tributary to Klamath River | NW | SE | 33 | 12N | 6E | H | 600 gpd | Jan 1-Dec 31 | Domestic | L-2380 |
| 8712 | 6/20/36 | Charles O. and Ruth Pratt | -- | Kelsey Creek | SE | SW | 21 | 44N | 11W | MD | 1.0 cfs | Jan 1-Dec 31 | Power | L-2510 |
| 8751 | 8/6/36 | John Dalwick | -- | Elk Creek | NE | SE | 12 | 15N | 7E | H | 0.3 cfs | Apr 1-Oct 31 | Domestic and irrigation, 12 acres | L-2536 |
| 8769 | 8/21/36 | Mrs. Ellen Allen | -- | Crawford Creek | NW | SE | 36 | 11N | 5E | H | 6,600 gpd | Jan 1-Dec 31 | Domestic | L-2559 |
| 8770 | 8/21/36 | Humburg Association, Inc. | -- | Hacks Creek | SE | SE | 36 | 46N | 11W | MD | 300 gpd | Sept 1-May 15 | Domestic | L-2447 |

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| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | B. S. M. | | | | |
| 8811 | 10/17/36 | United States Klamath National Forest | -- | West Branch Indian Creek | NW | SE | 23 | 18R | 6S | H | 4,500 gpd | May 1-Dec 15 | Domestic and recreational | L-2321 |
| 8959 | 5/3/37 | F. H. Crooke | -- | Douglas Creek Spring tributary to Klamath River | SE | SW | 18 | 15R | 7E | H | 2.0 cfs | Dec 1-Apr 1 | Mining and domestic | L-2508 |
| 9002 | 6/16/37 | United States Klamath National Forest | -- | Jessups Gulch South Fork of Jessups Gulch | NE | NW | 32 | 40W | 11W | MD | 6,500 gpd | Jan 1-Dec 31 | Domestic and fire protection | L-2151 |
| 9003 | 6/16/37 | United States Klamath National Forest | -- | Kelsey Creek | SE | SE | 20 | 44W | 11W | MD | 0.15 cfs | May 1-Oct 31 | Domestic and irrigation, 1.54 acres | L-2919 |
| 9010 | 6/18/37 | Estate of George A. Milne | -- | Music Creek | NW | SE | 16 | 40W | 10W | MD | 4,500 gpd | Jan 1-Dec 31 | Mining and domestic | L-2524 |
| 9054 | 7/28/37 | A. Y. Gripps | 11W/7E-35F1 | Crespo Creek | NE | NE | 2 | 10W | 7E | H | 14.7 cfs | Dec 1-Jul 1 | Mining and domestic | L-4182 |
| 9078 | 8/17/37 | E. W. Sawyer | 37W/10W-50L | Rush Creek | SE | SW | 31 | 38R | 10W | MD | 0.55 cfs | Jan 1-Dec 31 May 1-Sept 30 | Domestic Irrigation, 8 acres | L-2520 |
| 9096 | 8/24/37 | Helan Deason Wright | 16W/8E-16H | Spring tributary to Klamath River | SE | NE | 16 | 16R | 7E | H | 0.13 cfs | Jan 1-Dec 31 May 1-Sept 30 | Domestic Irrigation, 10 acres | L-2529 |
| 9102 | 8/30/37 | Helan Deason Wright | 16W/7E-15F1 | Spring tributary to Klamath River | SE | NW | 15 | 16R | 7E | H | 0.15 cfs | Jan 1-Dec 31 May 1-Sept 30 | Domestic Irrigation, 60 acres | L-2530 |
| 9107 | 9/8/37 | United States Klamath National Forest | -- | Louie Creek | SE | SW | 21 | 46R | 11W | MD | 250 gpd | Apr 1-Dec 1 | Recreational | L-2150 |
| 9113 | 9/11/37 | A. Y. Gripps | -- | Crespo Creek | NE | NE | 2 | 10W | 7E | H | 2,300 gpd | Jan 1-Dec 31 | Domestic | L-2269 |
| 9305 | 6/1/38 | Estate of Edward A. Robertson | -- | Rays Gulch | SE | SE | 10 | 37R | 11W | MD | 3.0 cfs | Dec 1-Jul 1 | Mining | L-2507 |
| 9318 | 6/11/38 | United States Klamath National Forest | -- | Spring tributary to Klamath River | SW | SW | 22 | 46R | 11W | MD | 250 gpd | Apr 1-Nov 30 | Recreational | L-2322 |
| 9346 | 7/11/38 | Sawyers Bar School District | -- | Tanere Gulch | SE | NE | 29 | 40R | 11W | MD | 600 gpd | Sept 1-May 31 | Domestic | L-2455 |
| 9529 | 3/24/39 | Harry W. Jordan | -- | Springs tributary to HoCuffy Creek | NW | NW | 32 | 45R | 10W | MD | 0.1 cfs | Apr 1-Nov 1 | Domestic and irrigation, 5 acres | L-2473 |
| 9538 | 3/31/39 | United States Klamath National Forest | -- | Fort Goff Creek | SW | SW | 32 | 47R | 12W | MD | 400 gpd | May 1-Dec 1 | Recreational | L-2545 |
| 9654 | 7/5/39 | B. G. Shaffer and D. N. Murphy | -- | Kings Creek | NE | SW | 12 | 14W | 6S | N | 3 cfs | Dec 1-Apr 30 | Mining | L-3199 |
| 9656 | 7/10/39 | United States Klamath National Forest | -- | Spring tributary to Scott River | SW | SW | 22 | 44W | 11W | MD | 2,000 gpd | Apr 1-Dec 1 | Recreational | L-2956 |
| 9659 | 7/11/39 | William D. Segaser, et al. | 40W/12W-28F1 | Olson Creek | SE | SE | 28 | 40W | 12W | MD | 25 cfs | Nov 30-Jul 15 | Mining and domestic | L-3687 |
| 9710 | 8/24/39 | Lloyd J. and Rettle E. Moss | -- | Wildwood Springs | SW | NW | 11 | 46R | 12W | MD | 1,440 gpd | Jan 1-Dec 31 | Domestic | L-3017 |
| 9762 | 11/14/39 | Duane N. and Emma Lou Curry | 18W/6E-25H1 | Indian Creek | SE | NW | 25 | 18R | 6S | N | 2.5 cfs | Dec 1-Jul 1 Jul 1-Dec 1 | Mining Domestic | L-3027 |
| 9784 | 12/8/39 | E. A. and H. V. Stans | -- | Tributary to Klamath River | SW | NE | 19 | 10W | 4E | H | 0.13 cfs | Jan 1-Dec 31 May 1-Oct 31 | Domestic and stockwatering Irrigation, 50 acres | L-5489 |
| 9912 | 5/24/40 | O. G. Steals | -- | Spring tributary to Middle Creek | SW | SE | 9 | 44W | 11W | MD | 200 gpd | Jan 1-Dec 31 | Domestic | L-2696 |
| 10064 | 11/14/40 | Theodosis Caldwell | -- | Whitmore Creek | NW | SW | 21 | 11W | 6E | N | 1.2 cfs | Dec 1-Jul 1 | Mining | L-3709 |

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| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | B. & M. | | | | |
| 10140 | 3/10/41 | Edna M. Miller | -- | Left Fork of Crawford Creek | SW | NW | 35 | 11N | 5E | R | | Nov 1-Jul 1 May 1-Jul 1 | Domestic Irrigation, 5 acres | L-5096 |
| 10145 | 3/13/41 | Simpson Redwood Company | -- | Tributary to High Prairie Creek | NE | NE | 28 | 14N | 1E | N | | Jan 1-Dec 31 | Domestic | L-2714 |
| 10146 | 3/13/41 | Simpson Redwood Company | -- | Tributary to High Prairie Creek | NE | NE | 28 | 14N | 1E | N | | Jan 1-Dec 31 | Domestic | L-2716 |
| 10165 | 3/24/41 | Mauds F. Sette | -- | Bill Berry Creek | NE | NW | 20 | 45N | 10W | ND | | Jan 1-Dec 31 | Power and domestic | L-2757 |
| 10185 | 4/18/41 | Estate of Frederick Edward Sette | -- | Swamp Creek | SW | SE | 17 | 45N | 10W | ND | | Jan 1-Dec 31 | Domestic and power | L-2758 |
| 10187 | 4/23/41 | United States Six Rivers National Forest | -- | High Prairie Creek | SE | NW | 21 | 14N | 1E | H | | Jan 1-Dec 31 May 1-Oct 1 | Domestic Irrigation, 1 acre | L-4546 |
| 10197 | 5/2/41 | Mary K. Mullin | -- | Bully Creek | NE | NW | 19 | 10N | 4E | R | | Jan 1-Dec 31 | Domestic | L-3278 |
| 10312 | 10/30/41 | Harry W. Jordan | -- | Springs tributary to McCaffy Creek | NW | NW | 32 | 45N | 10W | ND | | Jan 1-Dec 31 | Power | L-2849 |
| 10343 | 12/11/41 | Charles Nockaday and Paul Beck | 17W/7E-47L | East Fork Indian Creek | SE | SW | 4 | 17N | 7E | H | | Jan 1-Dec 31 May 1-Oct 1 | Domestic Irrigation, 8 acres | L-4883 |
| 10427 | 4/10/42 | Happy Camp Improvement, Inc. | 16W/7E-140L | Elk Creek | NW | NW | 25 | 16N | 7E | N | | Jan 1-Dec 31 | Municipal | L-3279 |
| 10435 | 4/25/42 | United States Klamath National Forest | -- | Spring tributary to Klamath River | SE | SE | 7 | 15N | 7E | N | | May 1-Nov 30 | Recreational | L-3182 |
| 10516 | 7/21/42 | Charles B. and Ebbel F. Shannon | -- | Ranch Gulch | SW | NE | 2 | 16N | 7E | N | | Jan 1-Dec 31 | Domestic | L-3061 |
| 10605 | 2/26/43 | State of California Division of Highways | -- | Browns Creek | NE | SE | 30 | 15N | 7E | N | | Jan 1-Dec 31 | Recreational | L-3118 |
| 10690 | 4/19/43 | Walter W. Jr. and Barbara E. Robinson | 47W/11W-521L | Sisal Creek | NE | SE | 32 | 47N | 11W | ND | | Apr 1-Jul 1 | Irrigation 13.8 acres | L-3038 |
| 10715 | 10/4/43 | William H. Hubbard | -- | Jessop Creek | SW | SE | 29 | 40N | 11W | ND | | Jan 1-Dec 31 | Domestic | L-4337 |
| 10794 | 3/29/44 | State of California Division of Highways | -- | Douglas Creek | NE | NW | 19 | 15N | 7E | H | | Dec 1-Nov 1 | Mining, power, domestic, and irrigation, 2 acres | L-3321 |
| 11032 | 4/23/45 | E. W. Sawyer | 37W/11W-134L | Blind Horse Creek | NE | SW | 13 | 37N | 11W | ND | | Jan 1-Dec 31 May 1-Oct 1 | Domestic Power and irrigation, 6 acres | L-4090 |
| 11099 | 7/9/45 | Joe D. Hood | -- | Swanson Gulch tributary to Scott River | SW | SE | 20 | 45N | 10W | ND | | Jan 1-Dec 31 | Power and domestic | L-3214 |
| 11123 | 7/30/45 | United States Klamath National Forest | 40N/11W-52E | Jessups Gulch South Fork Jessups Gulch | NE | NW | 32 | 40N | 11W | ND | | Jan 1-Dec 31 May 1-Nov 1 | Stockwatering Irrigation 2 acres | L-3490 |
| 11272 | 2/4/46 | Simeon L. Zane | -- | Spring tributary to Klamath River | NE | SE | 36 | 10N | 4E | H | | Jan 1 Dec 31 | Power and domestic | L-3214 |
| 11368 | 4/9/46 | Robert A. Wharton | -- | Logans Gulch | SE | SE | 11 | 10N | 7E | N | | Jan 1-Dec 31 Apr 1-Oct 15 | Domestic Irrigation, 2 acres | L-3756 |
| 11476 | 7/22/46 | Richard T. Bendl | 40N/13W-32CL | Big Creek | SE | SE | 31 | 40N | 12W | ND | | Dec 1-May 1 Jan 1-Dec 31 | Mining Domestic | L-4094 |
| 11521 | 8/19/46 | Morchester Mining Company | -- | Alder Creek | SW | SE | 28 | 40N | 12W | ND | | Dec 1-May 1 | Mining | L-4187 |
| 11572 | 10/1/46 | Earle A. and Irene H. Jackson | -- | Spring tributary to Indian Creek | SE | SE | 9 | 17N | 7E | N | | Jan 1-Dec 31 | Domestic | L-3591 |

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| | | | | | 1/4 | 1/4 | Sec. | Tp. | | | | | R. | B. & M. |
| 11623 | 11/15/46 | Youngs Saw Mill | -- | Taylor Spring No. 1 Taylor Spring No. 2 | SW | SW | 17 | 10R | SE | E | 1,440 gpd 60 gpd | Jan 1-Dec 31 | Domestic | L-4207 |
| 11625 | 11/18/46 | C. T. and E. A. Howard and C. and J. Garms | -- | Whiskey Gulch | SE | SW | 27 | 17R | 7E | H | 25 gpm | Jan 1-Dec 31 | Domestic and irrigation, 5 acres | P-6763 |
| 11654 | 12/10/46 | Jack and Vera L. Boat | 38N/11W-30M | Timber Gulch | SE | SW | 30 | 38R | 11W | MD | 2 cfs | Dec 1-Jul 15 | Mining | L-3472 |
| 11669 | 12/23/46 | Lovina A. Allison | -- | Spring tributary to Klamath River | L o k 3 | 31 | 10E | 5E | 5E | H | 2,400 gpd | Jan 1-Dec 31 | Domestic | L-3510 |
| 11677 | 1/2/47 | Louis Alphonse | 47N/6W-681 | Rutton Creek | SW | NE | 6 | 47R | 6W | MD | 5,000 gpd | Jan 1-Dec 31 | Domestic and stockwatering | L-3414 |
| 11692 | 1/10/47 | United States Six Rivers National Forest | 11W/6E-21E | Whitmore Creek | SW | NW | 21 | 11N | 6E | E | 0.8 cfs | Jan 1-Dec 31 | Power and domestic | L-3418 |
| 11714 | 2/3/47 | M. M. Campbell | -- | Springs tributary to Klamath River | SE | NW | 29 | 11N | 6E | H | 2,000 gpd | Jan 1-Dec 31 | Domestic | L-3703 |
| 11729 | 2/14/47 | United States Klamath National Forest | -- | Spring tributary to Klamath River | SW | SW | 2 | 46R | 9W | MD | 11,500 gpd | Jan 1-Dec 31 Apr 1-Oct 1 | Domestic Irrigation, 2.5 acres | L-3391 |
| 11749 | 2/26/47 | O. H. and E. L. Curry | 18W/6E-2511 | Indian Creek | SE | NW | 25 | 18W | 6E | H | 1.15 cfs | Jan 1-Dec 31 | Power | L-3720 |
| 11770 | 3/11/47 | Thomas L. and Velma M. Lutz | -- | Trail Gulch | SE | SW | 22 | 47R | 8W | MD | 3 cfs | Jan 1-Dec 31 | Mining and domestic | L-3350 |
| 11892 | 4/21/47 | T. M. Clayburn | 46N/7W-241 | Ash Creek | SW | NW | 1 | 46R | 7W | MD | 3 cfs | Oct 1-Jun 30 | Mining | L-5217 |
| 11948 | 6/23/47 | Carl, Jean, and June Maldewin | -- | Spring tributary to Klamath River | SE | SE | 30 | 11N | 6E | H | 2,200 gpd | Jan 1-Dec 31 | Domestic | L-4218 |
| 11979 | 7/11/47 | F. F. and M. C. Starritt | -- | Starritt Spring | NE | SE | 31 | 11N | 6E | H | 700 gpd | Jan 1-Dec 31 | Domestic | L-3397 |
| 12011 | 7/29/47 | MacIsaac and Henke Company | -- | Benjamin Creek | NE | NE | 21 | 16R | 7E | H | 11,000 gpd | Jan 1-Dec 31 Apr 1-Oct 31 | Domestic Irrigation, 1 acre | L-5031 |
| 12015 | 7/31/47 | Margarette Muller | -- | Johnson Creek | SE | NW | 32 | 15R | 8E | H | 3 cfs | May 1-Nov 1 | Mining and domestic | L-3364 |
| 12065 | 9/2/47 | United States Klamath National Forest | 44N/11W-20R1 | Kelsey Creek | SE | SE | 11 | 44N | 11W | MD | 1.20 cfs | Jan 1-Dec 31 | Domestic and power | L-3659 |
| 12158 | 11/19/47 | William and Lucille Ellison | -- | Spring tributary to Indian Creek | SE | SE | 3 | 16R | 7E | H | 4,320 gpd | Jan 1-Dec 31 | Domestic | L-3716 |
| 12228 | 1/6/48 | L. M. and Byron Hesford | -- | Tributary to Klamath River Tributary to Klamath River | SE NW | SE SE | 9 9 | 13R 13R | 1E 1E | H H | 6,000 gpd | Jan 1-Dec 31 | Domestic and stockwatering | L-3442 |
| 12366 | 3/1/48 | George M. and Margaret S. Chandler | -- | Spring tributary to Ash Creek | NE | NE | 2 | 46R | 7W | MD | 0.04 cfs | May 15-Oct 1 | Domestic and irrigation, 3 acres | L-3471 |
| 12549 | 5/16/49 | John Spinks | -- | Spring tributary to Klamath River | SE | SE | 9 | 12R | 6E | H | 7,200 gpd | Jan 1-Dec 31 | Domestic | L-3606 |
| 12582 | 7/2/49 | Hervey K. Wett | -- | Tributary to North Hungry Creek | SW | SW | 23 | 48R | 8W | MD | 210 gpd | Apr 1-Oct 31 | Domestic | L-4108 |
| 12643 | 8/2/48 | The California Oregon Power Co. | -- | Jenny Creek | NE | SE | 26 | 48R | 5W | MD | 5.25 cfs | Mar 1-May 1 | Irrigation, 401 acres | P-7482 |
| 12673 | 9/1/48 | Kenneth J. Kennedy | -- | Second Gulch | SW | SW | 36 | 46R | 11W | MD | 14,400 gpd | Jan 1-Dec 31 | Domestic and fire protection | L-4308 |
| 12694 | 9/13/48 | Frederick L. and Lenore A. Klein, Robert J. and Ella Mae Schwartz, Roy Campbell, and Fern Hilton | -- | Spring tributary to Klamath River | SE | SE | 35 | 46R | 11W | MD | 12,000 gpd | Jan 1-Dec 31 | Domestic | L-5537 |

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|--------------------|------------|--|----------------------|--|--------------------------------|-----|------|-----|-----|---------|------------------------|-------------------------------|----------------------------------|--------|
| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | B. & M. | | | | |
| 12713 | 9/27/48 | Emily, Bruce, and Leland Donahue | -- | Tributary to Klamath River | SE | SW | 3 | 11N | 6E | N | 0.2 cfs | Jan 1-Dec 31 May 1-Oct 31 | Domestic Irrigation, 2 acres | L-3739 |
| 12729 | 10/5/48 | William Romaine, Jr. | -- | Sandy Bar Creek | SW | NW | 28 | 13N | 6E | H | 0.32 cfs | Jan 1-Dec 31 | Power and domestic | L-3760 |
| 12745 | 10/13/48 | Louis Ford | 46N/64W-601 | Printers Gulch | NW | NW | 6 | 46N | 6W | MD | 0.75 cfs | Feb 1-Jun 30 | Mining | L-4556 |
| 12903 | 1/19/49 | Joe Freshour | -- | Spring tributary to Klamath River | NW | NE | 11 | 46N | 8W | MD | 7,200 gpd | Jan 1-Dec 31 Apr 15-Oct 15 | Stockwatering Irrigation, 1 acre | L-3629 |
| 12924 | 2/3/49 | Louis E. and Eloise H. Halce | -- | Ullathorne Creek | NW | NE | 2 | 10N | 5E | H | 1,300 gpd | Jan 1-Dec 31 | Domestic | L-3961 |
| 12932 | 2/15/49 | Happy Camp Improvement, Inc. | 16N/7E-14M1 | Elk Creek | NW | NW | 25 | 16N | 7E | H | 1.0 cfs | Jan 1-Dec 31 | Municipal | P-7700 |
| 13005 | 3/28/49 | Frank E. Walker | -- | Whittier's Creek Spring tributary to Whittier's Creek | SE | SW | 6 | 10N | 6E | H | 14,000 gpd | Jan 1-Dec 31 Feb 15-Oct 1 | Domestic Irrigation, 1.5 acres | L-3635 |
| 13023 | 4/8/49 | Louis R. Larson | -- | Tributary to Red Cap Creek | SE | SE | 15 | 10N | 5E | H | 0.32 cfs | Nov 1-May 1 | Mining | L-4119 |
| 13024 | 4/8/49 | Louis R. Larson | -- | Spring tributary to Red Cap Creek Spring tributary to Red Cap Creek | SE | NW | 15 | 10N | 5E | H | 2,000 gpd 5,000 gpd | Jan 1-Dec 31 | Domestic | L-4150 |
| 13066 | 4/23/49 | Klamath Cedar Company | -- | Spruce Creek | SW | SE | 3 | 13N | 1E | H | 0.061 cfs | Jan 1-Dec 31 | Industrial and domestic | L-3823 |
| 13122 | 5/31/49 | James Malone | -- | Tributary to Elk Creek | NE | SE | 35 | 16N | 7E | H | 0.025 cfs | May 1-Oct 1 | Irrigation, 2 acres | L-4728 |
| 13308 | 8/22/49 | Don and John McKillen | -- | Spruce Creek | SW | SE | 3 | 13N | 1E | H | 2,700 gpd | Jan 1-Dec 31 | Domestic | L-4017 |
| 13432 | 11/1/49 | Alton F. and Elanah O. Kay | -- | Ullathorne Creek | NW | NE | 2 | 10N | 5E | H | 1,300 gpd | Jan 1-Dec 31 | Domestic | L-3958 |
| 13433 | 11/1/49 | William O. Williams | -- | Ullathorne Creek | NW | NE | 2 | 10N | 5E | H | 1,300 gpd | Jan 1-Dec 31 | Domestic | L-3959 |
| 13434 | 11/1/49 | Irens A. Thompson | -- | Ullathorne Creek | NW | NE | 2 | 10N | 5E | H | 0.002 cfs | Jan 1-Dec 31 | Domestic | P-7984 |
| 13435 | 11/1/49 | Verne L. and Letta Johnson | -- | Ullathorne Creek | NW | NE | 2 | 10N | 5E | H | 400 gpd | May 1-Nov 1 | Domestic | L-5301 |
| 13437 | 11/1/49 | Robert V. Bryan | -- | Ullathorne Creek | NW | NE | 2 | 10N | 5E | H | 1,300 gpd | Jan 1-Dec 31 | Domestic | L-3960 |
| 13446 | 11/4/49 | United States Klamath National Forest | -- | Eagle Spring | SW | NJ | 27 | 44N | 11W | MD | 3,250 gpd | Jan 1-Dec 31 | Domestic and fire protection | L-3825 |
| 13476 | 11/21/49 | Thorne O. Vest | -- | West Spring | NW | SE | 11 | 16N | 7E | H | 2,000 gpd | Mar 1-Oct 1 | Domestic | L-4215 |
| 13575 | 2/9/50 | W. C. Namrick | -- | South Fork Perrills Gulch | NW | NW | 29 | 39N | 12W | MD | 0.030 cfs | Jan 1-Dec 31 | Domestic and Irrigation, 2 acres | P-8120 |
| 13685 | 4/12/50 | Earl and H. T. Derry | -- | Spring tributary to Salmon River | NW | NW | 3 | 11N | 6E | H | 1,300 gpd | Jan 1-Dec 31 | Domestic | L-4613 |
| 13720 | 5/4/50 | Arthur Henry and Rosamond E. French | -- | Curlay Jack Creek | NE | SW | 10 | 16N | 7E | H | 1,950 gpd | Apr 15-Oct 15 | Domestic and Irrigation, 2 acres | L-4995 |
| 13842 | 7/7/50 | United States Hamilton Air Force Base | 14N/1E-33R1 | High Prairie Creek | SE | SE | 33 | 14N | 1E | H | 11,500 gpd | Jan 1-Dec 31 | Municipal | L-5109 |
| 13942 | 9/8/50 | United States Six Rivers National Forest | 11M/16E-32E1 | Peach Creek Spring tributary to Klamath River | NW | NE | 32 | 11N | 6E | H | 0.019 cfs 0.006 cfs | Jan 1-Dec 31 | Domestic and fire protection | L-4903 |

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TABLE C-1 (Continued)

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KLANATH RIVER HYDROGRAPHIC UNIT

(Filed with State Water Rights Board as of June 30, 1960)

| Application Number | Date Filed | Present Owner | DWR Diversion Number | Source | Location of Point of Diversion | | | | | | Amount | Period of Diversion | Purpose | Status |
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| | | | | | 1/4 | 1/4 | Sac | Tr. | R. | S. & M. | | | | |
| 14123 | 1/10/51 | Henry D. Fowler | -- | Tributary to Indian Creek | SE | SW | 23 | 17N | 7E | H | 13,000 gpd | Jan 1-Dec 31 May 1-Nov 1 | Domestic Irrigation, 1.5 acres | L-4111 |
| 14202 | 3/19/51 | J. J. Burger | -- | Tributary to Indian Creek | SW | NW | 15 | 17N | 7E | H | 5,000 gpd | Jan 1-Dec 31 | Domestic | L-4089 |
| 14255 | 4/16/51 | W. V. and Anita Huey | -- | Indian Creek | SE | SE | 27 | 17N | 7E | H | 8,000 gpd | Mar 1-Dec 1 Mar 1-Oct 1 | Domestic Irrigation, 0.75 acre | L-4083 |
| 14456 | 8/30/51 | Frank Knig and Thomas Roberts | 17N/7E-15N1 | Spring tributary to Indian Creek | NE | NE | 21 | 17N | 7E | H | 4,320 gpd | Jan 1-Dec 31 | Domestic | L-4960 |
| 14457 | 8/30/51 | Thomas Roberts and Frank Knig | 17N/7E-15N1 | Spring tributary to Indian Creek | NE | NE | 21 | 17N | 7E | H | 4,320 gpd | Jan 1-Dec 31 | Domestic | L-4961 |
| 14779 | 4/25/52 | Onesave Donati | -- | Spring tributary to Klamath River | NW | NE | 18 | 46N | 11W | MD | 216 gpd | Jan 1-Dec 31 | Domestic | L-4375 |
| 14801 | 5/9/52 | United States Klamath National Forest | -- | Tributary to North Fork Salmon River | NW | SE | 28 | 40N | 12W | MD | 100 gpd | Apr 15-Nov 15 | Domestic | L-4828 |
| 14911 | 7/30/52 | Olyn W. Gould | 38N/11W-29Q1 | Cecil Creek | SW | SE | 29 | 38N | 11W | MD | 0.3 cfs | Jan 1-Dec 31 | Power and domestic | L-5102 |
| 15004 | 9/2/52 | Stephen Comstock | -- | Spring tributary to South Fork Salmon River | SW | SW | 29 | 39N | 12W | MD | 400 gpd | May 1-Nov 30 | Domestic | L-5131 |
| 15070 | 10/29/52 | United States Klamath National Forest | -- | Tributary to North Fork Salmon River | SW | SE | 13 | 40N | 11W | MD | 150 gpd | May 1-Nov 15 | Domestic | L-5303 |
| 15171 | 1/21/53 | S. Andrew Moebach | -- | Spring tributary to Klamath River | NW | SE | 18 | 13N | 2E | H | 0.05 cfs | Jan 1-Dec 31 | Domestic | L-5655 |
| 15229 | 3/9/53 | S. Andrew Moebach | -- | Spring tributary to Klamath River | NW | SE | 18 | 13N | 2E | H | 1,500 gpd | Jan 1-Dec 31 | Stockwatering | L-5656 |
| 15308 | 4/22/53 | Mollie Quinn Richards Estate | -- | Oad Creek | SW | SW | 30 | 10N | 4E | H | 0.75 cfs | Mar 1-Nov 30 | Irrigation, 40 acres | P-9347 |
| 15401 | 7/6/53 | Rebel S. and T. H. Lockwood, Sr. and T. H. Lockwood, Jr. | -- | Spring tributary to Klamath River | SE | SE | 36 | 11N | 5E | H | 2,950 gpd | Jan 1-Dec 31 Apr 15-Aug 31 | Domestic Irrigation, 1 acre | L-4685 |
| 15595 | 11/1/53 | James M. and Grace Olive Fitchugh and A. L. Johnson | -- | Cole Creek Coon Creek | NE | SE | 4 | 17N | 6E | H | 3.0 cfs | Jan 1-Dec 31 | Mining | P-9818 |
| 15637 | 12/7/53 | Edwin G. and Hazel L. Kurses | -- | Tributary to South Fork Salmon River | NE | SW | 20 | 10N | 8E | H | 1,500 gpd | Jan 1-Dec 31 | Domestic | L-5264 |
| 15800 | 3/26/54 | Siskon Corporation | -- | Copper Creek | SE | SW | 29 | 14N | 5E | H | 12 cfs | Jan 1-Dec 31 | Power | P-10416 |
| 15959 | 7/27/54 | A. A. and Charlotte Price | -- | Spring tributary to Indian Creek | NE | SE | 3 | 16N | 7E | H | 650 gpd | Jan 1-Dec 31 | Domestic | L-5343 |
| 15994 | 8/11/54 | Harold R. and Edith O. Eddy | -- | Spring tributary to Scott River | SW | NW | 27 | 44N | 11W | MD | 550 gpd | Apr 1-Nov 1 | Domestic | L-5595 |
| 16005 | 8/23/54 | V and E Logging Company, Inc. | -- | Spring tributary to Indian Creek | NW | SE | 15 | 17N | 7E | H | 5,000 gpd | Jan 1-Dec 31 | Domestic | L-5045 |
| 16120 | 11/1/54 | E. E. McClimens | 17N/7E-7Q1 | Tributary to South Fork Indian Creek | SE | NW | 7 | 17N | 7E | H | 0.08 cfs | Jan 1-Dec 31 | Domestic | L-5290 |
| 16212 | 2/10/55 | Richard E. and Bonnie L. Wann Harold R. and Eloise A. Lipke | -- | Tributary to South Fork Indian Creek | SW | NE | 7 | 17N | 7E | H | 0.08 cfs | May 15-Oct 1 | Irrigation 6 acres | L-5970 |
| 16296 | 4/1/55 | Willamette Plywood Corporation | 17N/7E-16Q1 | Fong Wagh Creek | NW | NE | 14 | 10N | 7E | H | 13,000 gpd | Mar 1-Nov 30 | Irrigation, 1.5 acres | L-5970 |
| 16303 | 4/6/55 | Mrs. Lena McClellan | -- | Spring tributary to Indian Creek | NW | NE | 21 | 17N | 7E | H | 0.1 cfs | Jan 1-Dec 31 | Industrial and domestic | L-5375 |
| | | | | Boyd Gulch | NE | NW | 11 | 10N | 7E | H | 10,000 gpd | Jan 1-Dec 31 | Mining and domestic | P-10298 |

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 KLAMATH RIVER HYDROGRAPHIC UNIT
 (Filed with State Water Rights Board as of June 30, 1960)

| Application Number | Date Filed | Present Owner | O.W.R. Diversion Number | Source | Location of Point of Diversion | | | | | | Amount | Period of Diversion | Purpose | Status* |
|--------------------|------------|--|-------------------------|--------------------------------------|--------------------------------|-----|------|-----|-----|----------|--------------|------------------------------|---|------------|
| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | B. B. M. | | | | |
| 16909 | 4/11/55 | Clara L. Smith | -- | Spring tributary to Klamath River | SE | SW | 2 | 14N | 6E | H | 1.0 cfs | Jan 1-Dec 31 | Mining and domestic | P-10277 |
| 16984 | 5/19/55 | Keith H. Lee | -- | Spring tributary to Klamath River | NW | NW | 7 | 16N | 8E | H | 0.025 cfs | Jan 1-Dec 31 Apr 1-Oct 31 | Domestic Irrigation, 2 acres | L-5903 |
| 16444 | 7/1/55 | Estate of Clarence A. George and Katherine C. George | -- | Tributary to Salmon River | NW | SW | 20 | 10N | 8E | H | 8,750 gpd | Jan 1-Dec 31 May 1-Nov 1 | Domestic Irrigation, 1 acre | L-5642 |
| 16513 | 8/10/55 | Adelle M. Brown | -- | Rehney Gulch | NW | NW | 33 | 40R | 12W | MD | 3.0 cfs | Jan 1-Dec 31 | Mining and domestic | P-10513 |
| 16537 | 8/22/55 | Everett G. Mardick | -- | Spring tributary to Scott River | NW | SW | 27 | 44N | 11W | MD | 750 gpd | Apr 1-Nov 1 | Domestic | L-5574 |
| 16629 | 9/28/55 | John F. and Florence C. Kennedy and Cleo W. and Irngard S&LL | -- | Perkins Gulch | SE | NW | 3 | 16N | 7E | B | 9,000 gpd | Jan 1-Dec 31 | Domestic and irrigation, 3 acres | P-10649 |
| 16648 | 10/5/55 | Clarence J. and Ruth B. Knack | 46N/5W-28R | Spring tributary to Willow Creek | SE | SE | 28 | 46N | 5W | MD | 1.1 cfs | May 1-Nov 15 | Stockwatering and irrigation, 86 acres | P-10524 |
| 16766 | 12/5/55 | Joseph Miller | -- | Tributary to South Fork Salmon River | SW | NW | 19 | 10N | 8E | H | 0.04 cfs | Jan 1-Dec 31 | Domestic and irrigation, 1.75 acres | E-10766 |
| 16888 | 2/9/56 | Abbey A. Hall | 16N/7E-26E1 | Spring tributary to Indian Creek | NE | NW | 26 | 17N | 7E | H | 2,000 gpd | Jan 1-Dec 31 | Domestic and stockwatering | L-5504 |
| 16957 | 3/20/56 | California Water Commission | -- | Klamath River | -- | -- | 9 | 47N | 5W | MD | 60,000 af | Jan 1-Dec 31 | Power | Incomplete |
| 16958 | 3/20/56 | California Water Commission | -- | Klamath River | -- | -- | 9 | 47N | 5W | MD | 60,000 af | Jan 1-Dec 31 | Irrigation, industrial, domestic, municipal, recreational, and fish and wildlife | Incomplete |
| 16959 | 3/20/56 | California Water Commission | -- | Salmon River | -- | -- | 28 | 11N | 7E | H | 1,000,000 af | Jan 1-Dec 31 | Power and flood control | Incomplete |
| 17009 | 4/16/56 | John Menary | -- | Tributary to Hynot Creek | SW | SW | 35 | 14N | 1E | H | 1.68 cfs | Jan 1-Dec 31 | Domestic | P-10699 |
| 17031 | 4/24/56 | California Water Commission | -- | Klamath River | -- | -- | 19 | 10W | 5E | H | 5,480,000 af | Jan 1-Dec 31 | Irrigation, domestic, municipal, industrial, flood control, recreational, salinity control, and fish and wildlife | Incomplete |
| 17032 | 4/24/56 | California Water Commission | -- | Klamath River | -- | -- | 19 | 20W | 5E | H | 5,480,000 af | Jan 1-Dec 31 | Power | Incomplete |
| 17033 | 4/24/56 | California Water Commission | -- | Klamath River | -- | SW | 33 | 16N | 7E | B | 4,120,000 af | Jan 1-Dec 31 | Irrigation, domestic, municipal, industrial, flood control, recreational, salinity control, and fish and wildlife | Incomplete |
| 17034 | 4/24/56 | California Water Commission | -- | Klamath River | -- | SW | 33 | 16N | 7E | B | 4,120,000 af | Jan 1-Dec 31 | Power | Incomplete |
| 17035 | 4/24/56 | California Water Commission | -- | Klamath River | -- | -- | 31 | 46R | 10W | MD | 1,850,000 af | Jan 1-Dec 31 | Irrigation, domestic, municipal, industrial, flood control, recreational, salinity control, and fish and wildlife | Incomplete |
| 17036 | 4/24/56 | California Water Commission | -- | Klamath River | -- | -- | 31 | 46R | 10W | MD | 1,850,000 af | Jan 1-Dec 31 | Power | Incomplete |
| 17037 | 4/24/56 | California Water Commission | -- | Klamath River | -- | -- | 3 | 12W | 2E | H | 1,940,000 af | Jan 1-Dec 31 | Irrigation, domestic, municipal, industrial, flood control, salinity control, and fish and wildlife | Incomplete |

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 (Filed with State Water Rights Board as of June 30, 1960)

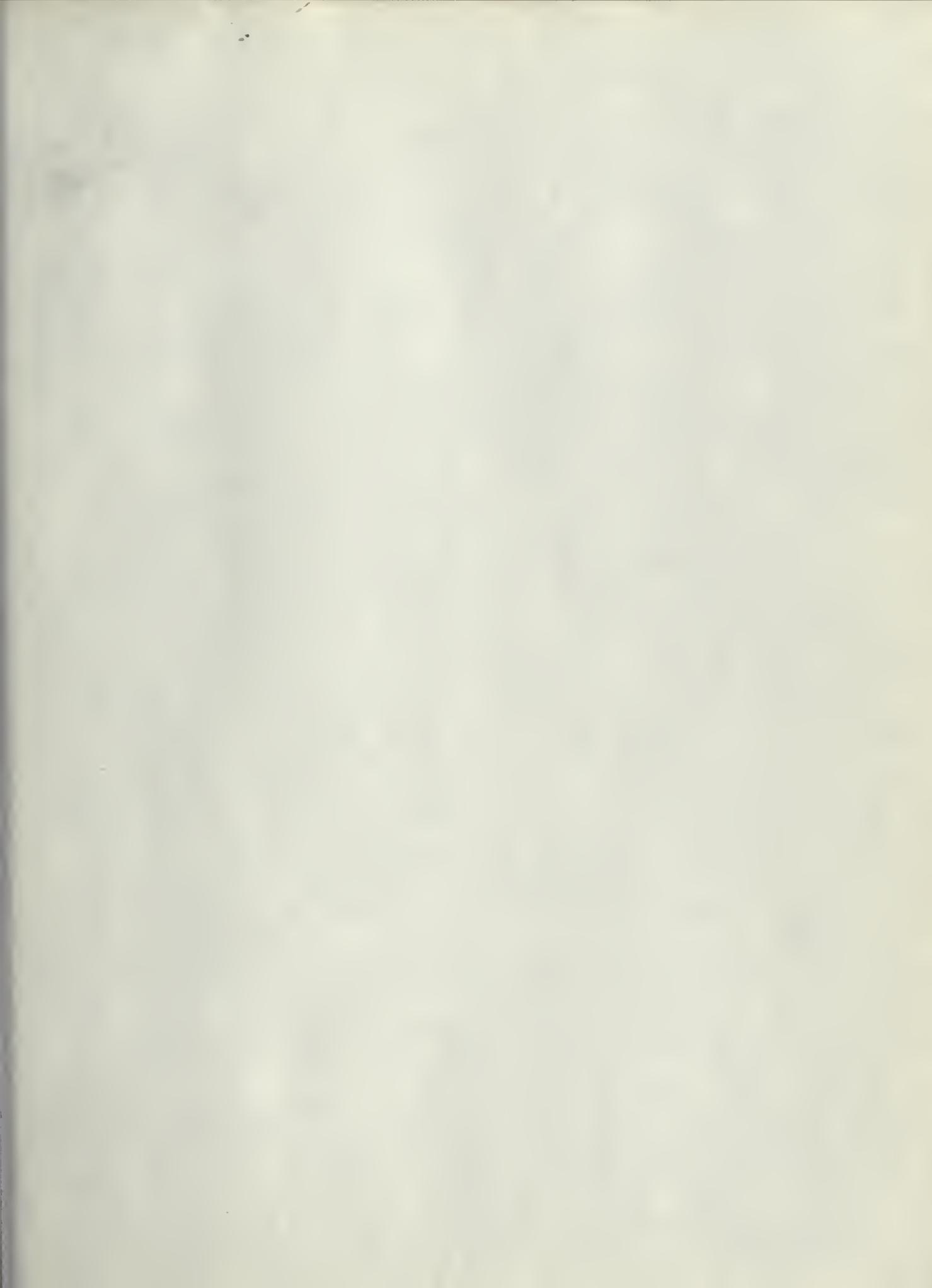
| Application Number | Date Filed | Present Owner | DWR Diversion Number | Source | Location of Point of Diversion | | | | Amount | Period of Diversion | Purpose | Status* | | |
|--------------------|------------|---|----------------------|--|--------------------------------|-----|------|-----|--------|---------------------|--------------|--------------|--|------------|
| | | | | | 1/4 | 1/4 | Sec. | Tp. | | | | | R. | B. & M. |
| 17038 | 4/24/56 | California Water Commission | -- | Klamath River | -- | -- | 3 | 12N | 2E | N | 1,940,000 af | Jan 1-Dec 31 | Power | Incomplete |
| 17089 | 5/24/56 | William J. Horn | -- | Spring tributary to Hymot Creek | SE | NE | 34 | 14N | 1E | H | 1,100 gpd | Jan 1-Dec 31 | Domestic | L-5873 |
| 17105 | 5/28/56 | Joseph Miller | -- | Tributary to South Fork Salmon River | SW | W | 19 | 10N | 8E | H | 0.026 cfs | Jan 1-Dec 31 | Mining | P-10767 |
| 17159 | 6/28/56 | Vincent T. and Mary F. Hissinger | -- | Ferguson Creek | SE | NE | 21 | 16N | 7E | N | 1,000 gpd | Jan 1-Dec 31 | Domestic | L-5914 |
| 17286 | 9/21/56 | Berrett W. and Elva N. Lisle | -- | Spring tributary to Indian Creek | SW | SW | 23 | 17N | 7E | N | 298 gpd | Jan 1-Dec 31 | Domestic | L-6034 |
| 17342 | 10/30/56 | Donald E. Fehlman | 46N/54-511 | Tributary to Willow Creek | NW | SE | 5 | 46N | 5W | ND | 0.50 cfs | May 1-Nov 1 | Stockwatering and irrigation, 40 acres | P-10959 |
| 17343 | 10/30/56 | Donald E. Fehlman | 46N/54-741 | Tributary to Willow Creek | NE | SE | 5 | 46N | 5W | ND | 0.45 cfs | May 1-Nov 1 | Stockwatering and irrigation, 35 acres | P-10960 |
| 17412 | 12/31/56 | Robert Mische and Patricia Mische | -- | Willow Creek | NE | NE | 7 | 46N | 5W | ND | 0.089 cfs | Jan 1-Dec 31 | Domestic | P-11137 |
| 17454 | 2/5/57 | Nathan A. and Ethel Z. Steele | -- | Spring tributary to Merrill Creek | SE | SE | 34 | 12N | 6E | H | 13,000 gpd | Jan 1-Dec 31 | Domestic, recreational, stockwatering and irrigation, 1 acre | P-11095 |
| 17527 | 3/26/57 | California Oregon Power Company | -- | Spring in Spike Gulch tributary to South Fork Salmon River | SE | SE | 7 | 37N | 9W | ND | 3,300 cfs | Jan 1-Dec 31 | Power | P-12259 |
| 17520 | 3/27/57 | M. R. Gilbert and Louis O. Hansen | -- | Klamath River | SW | SW | 9 | 47N | 5W | ND | 400 af | Oct 1-Apr 1 | Irrigation, 200 acres | P-11388 |
| 17578 | 4/26/57 | V. J. W. Alexander, Edward Whalen, William Viner, and William Rigby | -- | Little Bogus Creek | NW | SE | 27 | 47N | 5W | ND | 0.1 cfs | Jan 1-Dec 31 | Domestic and irrigation, 44.6 acres | P-11089 |
| 17765 | 8/6/57 | Russell Frederick and Jean Frederick | 46N/54-1401 | Walker Creek | SE | NW | 18 | 46N | 11W | ND | 0.76 cfs | May 1-Aug 1 | Irrigation, 60.8 acres | P-11592 |
| 17820 | 9/11/57 | Estate of Madge Blunt Haring | -- | Tributary to Willow Creek | NE | SE | 14 | 46N | 5W | ND | 0.35 cfs | Jan 1-Dec 31 | Domestic and irrigation, 20 acres | P-11258 |
| 17909 | 12/9/57 | United States Klamath National Forest | -- | Trepper Creek | SE | NW | 34 | 48N | 9W | ND | 0.05 cfs | Mar 1-Dec 1 | Domestic | P-11544 |
| 18099 | 4/21/58 | Charles F. Woodburn | -- | Tributary to Klamath River | SE | NW | 31 | 46N | 10W | ND | 0.025 cfs | Jan 1-Dec 31 | Domestic | P-11609 |
| 18114 | 4/30/58 | Arka and Wilma Harper | -- | Sevan Gulch | SW | NW | 18 | 10N | 8E | N | 3,000 gpd | Jan 1-Dec 31 | Domestic | P-11599 |
| 18140 | 5/19/58 | United States Six Rivers National Forest | -- | Spring tributary to High Prairie Creek | SE | SE | 32 | 14N | 1E | H | 0.013 cfs | Jan 1-Dec 31 | Domestic and recreational | P-11638 |
| 18141 | 5/19/58 | United States Six Rivers National Forest | -- | Spring tributary to McFarland Gulch | SW | SW | 30 | 10N | 5E | H | 190 af | Jan 1-Dec 31 | Recreational | P-11639 |
| 18142 | 5/29/58 | United States Six Rivers National Forest | -- | Fish Lake | NE | NE | 14 | 10N | 4E | N | 0.026 cfs | Apr 1-Nov 30 | Domestic | P-11640 |
| 18173 | 6/6/58 | Edwin R. Harding | -- | Spring tributary to Fish Lake | SE | SW | 11 | 10N | 4E | H | 110 gpd | Jan 1-Dec 31 | Domestic | P-11649 |
| 18247 | 9/4/58 | F. B. Stokesberry | -- | Macke Creek | NW | NW | 1 | 45N | 11W | ND | 0.033 cfs | Jan 1-Dec 31 | Domestic and irrigation, 2.5 acres | P-11873 |
| 18367 | 10/9/58 | United States Klamath National Forest | -- | Spring tributary to Pallock Gulch and Salmon River | SW | SE | 7 | 10N | 8E | N | 5,400 gpd | May 1-Dec 1 | Domestic and fire protection | P-11799 |
| 18367 | 10/9/58 | United States Klamath National Forest | -- | Tributary to Beaver Creek | NW | SE | 21 | 48W | 8W | ND | 5,400 gpd | May 1-Dec 1 | Domestic and fire protection | P-11799 |

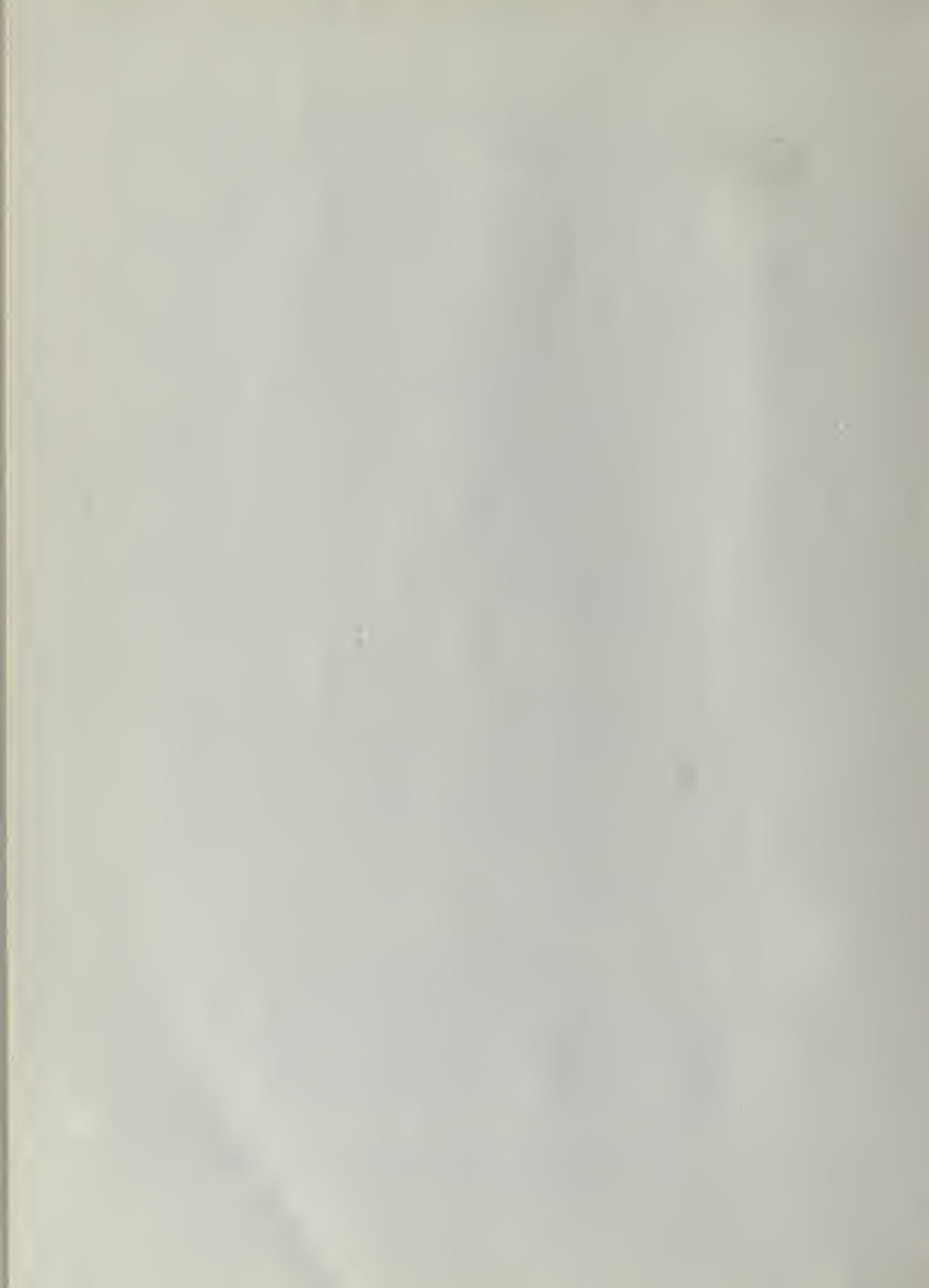
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| | | | | | 1/4 | 1/4 | Sec. | Tp. | R. | S. B. & M. | | | | |
| 18398 | 11/5/58 | Ted Robbline and Mildred S. Robbline | -- | Spring tributary to Slate Creek | SE | NE | 7 | 10W | 5E | N | 9,000 gpd | Jan 1-Dec 31 | Domestic and Irrigation, 1 acre | P-11818 |
| 18421 | 12/3/58 | F. L. and O. C. Lathrop | -- | Deer Creek and tributaries | NW | SW | 34 | 48N | 4W | MD | 1.0 cfs | Mar 15-Nov 15 | Domestic, recreational, fish culture, and irrigation, 66.1 acres | P-11848 |
| 18471 | 1/12/59 | Gilbert N. Jr. and Myrna P. Stafford | -- | East end West Fork of Allwood Creek, Ocon Creek, and Indian Bottoms Creek (contingent) | S $\frac{1}{2}$ | SW | 16 | 11W | 7E | H | 2.75 cfs | Jan 1-Dec 31 | Mining and domestic | P-11867 |
| 18563 | 3/2/59 | George F. and Betty Reedy | -- | Tributary to Indian Creek | SW | SW | 23 | 17N | 7E | N | 365 gpd | Jan 1-Dec 31 | Domestic | P-11983 |
| 18938 | 8/25/59 | John B. Fitzgerald and Thomas Edward Fitzgerald | -- | Bullhead Creek tributary to Rogue Creek | NW | SW | 12 | 47N | 5W | MD | 2.0 cfs | Mar 15-Oct 1 | Irrigation, 160 acres | P-12423 |
| 19213 | 2/3/60 | Charles S. and Ethel P. Shannon | -- | Ranch Gulch tributary to Klamath River | SE | NE | 2 | 16N | 7E | H | 0.016 cfs | Jan 1-Dec 31 | Domestic and Irrigation, 1 acre | P-12532 |
| 19246 | 2/23/60 | United States Rogue River National Forest | -- | Cook and Green Creek tributary to Middle Fork Applegate River | NW | NW | 31 | 48W | 11W | MD | 6,500 gpd | Jan 1-Dec 31 | Domestic and recreational | Incomplete |
| 19247 | 2/23/60 | United States Rogue River National Forest | -- | Spring tributary to Elliott Creek | SW | SW | 13 | 48N | 10W | MD | 400 gpd | Jan 1-Dec 31 | Domestic and stockwatering | Incomplete |
| 19319 | 3/23/60 | United States Six Rivers National Forest | -- | Spring tributary | SW | NE | 31 | 10N | 5E | H | 0.014 cfs | Jan 1-Dec 31 | Domestic and Irrigation, 1 acre | P-12456 |
| 19323 | 3/31/60 | United States Klamath National Forest | -- | Woodpecker Creek tributary to Indian Creek | SW | SW | 3 | 17N | 7E | N | 0.10 cfs | Jan 1-Dec 31 | Irrigation, 10 acres | Incomplete |
| 19353 | 4/14/60 | Janez Marehall Kinne | -- | Spring tributary to Tomesend Gulch | NW | SW | 2 | 44N | 11W | MD | 0.31 cfs | Jan 1-Dec 31 | Domestic and Irrigation, 2.5 acres | Incomplete |
| 19369 | 4/25/60 | Karl N. and Nita D. Kutzer | -- | Spring tributary to Klamath River | NE | NW | 14 | 46N | 10W | MD | 500 gpd | Jan 1-Dec 31 | Domestic | P-12582 |
| 19478 | 6/6/60 | King Lewis | -- | Klamath River tributary to Pacific Ocean | SW | SE | 17 | 47N | 5W | MD | 0.25 cfs | Jan 1-Dec 31 | Irrigation, 8 acres | Incomplete |

* P - Indicates permit number of application approved. I - Indicates license number of right confirmed. Incomplete - Indicates application not yet complete. Pending - Indicates application complete but not yet approved.





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