

Sacramento
River
Environmental
Atlas
1978



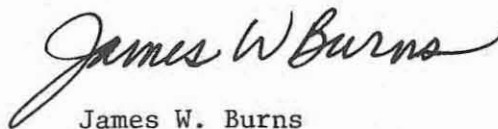
Prepared for the Upper Sacramento
River Task Force by the Resources
Agency of the State of California.

FOREWORD

The Upper Sacramento River Task Force was organized to resolve problems in management of the Sacramento River and its adjacent lands. Sportsmen and environmentalists are alarmed at the rapid decline of salmon and steelhead runs and destruction of riparian vegetation vital to the survival of wildlife. Farmers along the river are worried about bank erosion and loss of prime agricultural land. Residents of the Sacramento Valley and many who vacation there but live elsewhere are concerned about public access and maintaining the quality of the river as a valuable recreation resource.

The Upper Sacramento River Task Force, a group of federal, state, and county agencies as well as individuals representing Sacramento Valley farming interests and environmental groups, have labored over the past two years to resolve many of the conflicts.

As part of its work, the Task Force has assembled this environmental atlas of the river to include the data necessary for informed approaches to the river's problems. This publication is a picture of the river as it is now, with the flaws that we intend to correct and the beauties that we strive to preserve.



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North of the City of Colusa, the Sacramento River possesses many of the natural endowments associated with its past. The goal of the Upper Sacramento River Task Force is to preserve these amenities and still deal successfully with the issues of today.

With the threat of flooding diminished by construction of Shasta Dam in the mid-1940's, agriculture and urban development have moved steadily onto the Sacramento River flood plain. Under the present operation of Shasta Dam, river flows are now at higher stages for longer periods; they do not peak and subside rapidly as they once did.

Some refer to the river as a "canal" because it carries these large flows of water for use in the Sacramento-San Joaquin Delta and south. Farmers that have moved down to the river's edge to plant in the deep alluvial soils are experiencing severe erosion. They are demanding rock "riprap" to armor the riverbanks. Recreationists and environmentalists view with alarm the removal of large tracts of riparian vegetation that once gave the Sacramento River its primal appearance and nurtured large populations of wildlife.

Anadromous (migratory) fish of the upper Sacramento River are also threatened. Salmon and steelhead runs have declined, producing poorer fishing in the upper river and lower commercial catches in the ocean. The reason for the decline is unknown, although the Red Bluff Diversion Dam, pollution, hatchery management, flow release schedules, removal of riparian vegetation, irrigation diversions, gravel removal, and water temperature changes have all been named as responsible agents.

Copies of this atlas at \$20.00 each may be ordered from:
 Department of Water Resources
 P.O. Box 388
 Sacramento, California 95802
 Make Checks payable to STATE OF CALIFORNIA.
 California residents add 6 percent sales tax.

This environmental atlas establishes a "baseline". It shows the present conditions along the river in pictorial form, and provides a basis for management decisions that will ultimately assure the conservation and wise use of the Sacramento River and its resources.

Study Area Boundaries

The study area covered in the environmental atlas extends from the bridge at Colusa north to Keswick Dam, a distance of about 257 kilometres (160 miles). From Colusa north to Ord Ferry the Sacramento River is contained at high flows by east and west setback levees 1 to 2 or more kilometres (0.6 miles) apart. Within this stretch the tops of the setback levees were chosen as the limits of the study area.

North of Ord Ferry, the boundary selected was the State Reclamation Board's "designated floodway". There were numerous exceptions to this, however, because the designated floodway frequently cuts across tracts of riparian vegetation that are of utmost interest to the Task Force. In those cases, the study area boundary included the land parcel in question. An example of this is on atlas sheet 32A, where the western half of Mooney Island lies outside of the designated floodway. Other types of deviations can be noted on atlas sheets 24A, and 28A where the photomaps did not cover the entire designated floodway areas. In these cases the study area was adjusted inward to stay on the edge of the photomap.

North of Red Bluff, from river mile 250 to Jelly's Ferry bridge at mile 267, the Sacramento River narrows, cutting between steep canyon walls that some compare in beauty to the Grand Canyon of the Colorado River. This area is locally called the Iron Canyon. Through this section,

the designated floodway is virtually at the river's edge. The study area boundary, selected by use of stereoscopic aerial photographs, was extended to include all lands within line of sight from the center of the Sacramento River. It was felt that by selecting a zone of interest beyond the designated floodway in this reach, the Task Force might better express its concern over the possible man-made developments that have been proposed there. In total, the study area includes about 22 200 hectares (54,900 acres).

Riparian Vegetation and Land Use

The first visitors to the Sacramento Valley, in the middle of the last century, found vast forests of riparian vegetation bordering the larger streams, sometimes in bands 3 kilometres (2 miles) wide. The area in riparian forest was estimated at over 280 000 hectares (700,000 acres). Clearing for agriculture, fuel, and, to a lesser extent, lumber reduced these once-vast forests to mere remnants.

In order to measure the remaining riparian vegetation resource, personnel from the California Departments of Fish and Game and Water Resources established the various land use and vegetation classes shown in this atlas. Tabular results of the study are shown in the table on the following page.

Riparian vegetation is comprised of plant species that obtain their nutrient and water supply at the capillary fringe (just above the water table) or have the ability to survive with their roots entirely submerged. The following legend was used to map the vegetative types within the study area boundary.

Riparian Vegetation Mapping Legend

Symbols

AG	General crops including grain, alfalfa, pasture and row crops.
AD	Deciduous orchard.
V1	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.
V2	Vegetation similar to V1 but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.
V3	Vegetatively less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.
V4	Comprised mainly of forbs, grasses, and low-growing willows and alders.
U	Urban or urban related.
PR	Formal parks, e.g. Woodson Bridge State Park.
Rc	Commercial recreation.
W	Water surface.
OW	Oxbow lakes, isolated from river.
R	Gravel bars, rocks, sand.
GR	Grass/hardwood

Denominator Symbols

H	High terrace lands, generally free from inundation except during exceptionally high river flows.
L	Low terrace lands, generally inundated at only moderately high river flows.

For this study, riparian vegetation was grouped into climax (mapped as V1), subclimax (V2), young trees (V3), and, finally, grass and forb (V4) classes. Climax vegetation is a grouping of plant types that will ultimately dominate a given location. As mapped for this study, it could be dominated by sycamore, black walnut, cottonwood, oak (mainly

valley oak), or combinations of the above. Valley oaks and California sycamore tend to dominate the highest of the high terrace sites, giving way to cottonwoods and alders as the physiography approaches low terrace. In a few cases, unmixed stands of valley oak, as seen on sheet 18 left bank, were delineated as climax vegetation. Large, unmixed stands of valley oaks along the margins of the river are rare now, although a few large blocks still survive away from the river, interspersed with agricultural land.

Oxbow lakes, some located 1 or 2 kilometres (3,000-6,000 feet) away from the main river channel, provide the water necessary to sustain large bands of riparian vegetation. Some of these should be protected from degradation, because they represent the finest example of a complete riverine ecosystem.

It is difficult to distinguish between idle agricultural land and land characterized by native forbs and grasses. When agricultural land is left idle, possibly for as little as two years, a native plant succession begins. Signs of tillage and other cultural impacts begin to disappear, and nature reclaims the land. The reason for distinguishing between native plants and those that typically grow on idle agricultural land is that native plants have a greater capacity for sustaining wildlife populations.

North of Red Bluff, through Iron Canyon and north to Jelly's Ferry, a nonriparian vegetal class, GH (grass-hardwood) was mapped on rocky sidehill land. The study-area boundary was extended beyond the designated floodway to include this environmentally sensitive and scenic area.

RIPARIAN VEGETATION AND LAND USE
COUNTY SUMMARIES
(Hectares and Acres)

Land Use Category	Mapping Symbol	Butte		Colusa		Glenn		Shasta		Tehama		Total	
		Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres
Agricultural													
High Terrace-Orchards	AD/H	449	1 110	720	1 779	1 683	4 159	0	0	1 137	2 810	3 989	9 858
High Terrace-Annual Cropland	AG/H	1 166	2 880	123	303	845	2 088	12	29	708	1 750	2 854	7 050
Subtotal		1 615	3 990	843	2 082	2 528	6 247	12	29	1 845	4 560	6 843	16 908
Low Terrace-Orchard	AD/L	0	0	0	0	0	0	0	0	0	0	0	0
Low Terrace-Annual Cropland	AG/L	0	0	0	0	0	0	0	0	12	30	12	30
Subtotal		0	0	0	0	0	0	0	0	12	30	12	30
Native Vegetation													
High Terrace - Climax Vegetation	V1/H	330	815	394	974	540	1 335	202	499	859	2 122	2 325	5 745
High Terrace - Sub-Climax Vegetation	V2/H	132	326	171	422	215	531	215	532	253	626	986	2 437
High Terrace - Young Trees	V3/H	82	202	53	131	102	252	40	98	53	132	330	815
High Terrace - Forbs and Grass	V4/H	516	1 274	301	743	402	994	332	821	675	1 667	2 226	5 499
Subtotal		1 060	2 617	919	2 270	1 259	3 112	789	1 950	1 840	4 547	5 867	14 496
Low Terrace - Climax Vegetation	V1/L	62	153	9	22	141	349	0	0	310	767	522	1 291
Low Terrace - Sub-Climax Vegetation	V2/L	78	192	19	46	145	358	17	41	223	551	482	1 188
Low Terrace - Young Trees	V3/L	90	222	29	72	289	715	126	312	142	350	676	1 671
Low Terrace - Forbs and Grass	V4/L	108	268	72	178	208	514	54	134	503	1 244	945	2 338
Subtotal		338	835	129	318	783	1 936	197	487	1 178	2 912	2 625	6 488
Other Land Use													
Urban	U	0	0	0	0	4	9	53	130	4	9	61	148
Formal Parks	PR	0	0	6	14	4	10	32	79	101	250	143	353
Recreational Commercial	Rc	3	8	2	5	1	3	3	7	16	39	25	62
Water Surface	W	514	1 270	347	858	727	1 796	720	1 778	1 497	3 699	3 805	9 401
Oxbow Lake	OW	35	87	18	45	64	159	8	19	11	26	136	336
Gravel Bar	R	236	583	122	302	392	968	158	390	537	1 328	1 445	3 571
Grass/Hardwood	GH	0	0	0	0	0	0	0	0	1 242	3 070	1 242	3 070
Total Area		3 801	9 390	2 386	5 894	5 762	14 240	1 972	4 869	8 283	20 470	22 204	54 863

Prime Agricultural Lands

This element of the atlas describes and locates prime agricultural soils. As used here, the definition of prime agricultural soil closely parallels the U. S. Soil Conservation Service capability Class I grouping. In the study area these are moderately deep to deep, non-gravelly, well drained recent alluvial soils occupying a physiographic position sufficiently high above the flood plain to be subject to flooding only during unusually high flows. These soils are capable of producing maximum yields of all climatically adapted crops, including orchard and vineyard. In the Storie classification these soils rate at least 80. Along the Sacramento River, prime soils include soils of the Columbia, Sycamore, Wyo, Reiff, and Vina associations.

This inventory was prepared in three stages. First, stereoscopic black and white aerial photographs at a 1:24,000 scale were studied. With these and with the aid of published soil surveys, bodies of prime soil were delineated on 1:12,000 scale sepia reproductions identical to the photomaps comprising this atlas. Mapping units totaling less than 1 hectare (about 2 acres) were included in larger, adjoining units. The second phase examined soil boundaries on 35-mm colored aerial photographs taken from very low altitude. Channeling, gravel streaks, and vigor of native vegetation were evaluated as evidence of soil quality.

The third stage of the inventory consisted of on-site field verification and adjustment of the suspected boundaries. Variables such as soil depth, gravel content, texture, degree of channeling, and physiographic position were considered during this phase of study. Finally, the prime land areas were tabulated for each atlas map.

Recreational Developments

As a recreation resource, the Sacramento River is known mainly for salmon and steelhead fishing. It is also classed as a premium scenic, wildlife, and recreational river by the California Protected Waterways Plan. In 1970, parts of the Sacramento River, including the reach from Keswick Dam to Sacramento, were identified as potential additions to the National Wild and Scenic Rivers System. Section 5(d) of the Wild and Scenic Rivers Act provides, "In all planning for the use and development of water and related land resources, consideration shall be given by all federal agencies involved to potential national, wild, scenic and recreational river areas."

The California Department of Water Resources surveyed recreational use along the Sacramento River in 1973. Recreationists using the river were counted and many interviewed. The survey showed that the river is an important recreation attraction for a large part of the local population. Use of the river from Redding to Colusa totaled nearly 700,000 recreation days. (A recreation day is defined as the use by one person for all or part of one day.) Although camping, picnicking, boating, and beach use are important, fishing is by far the most popular activity. Anglers catch many species of fish--for example, rainbow trout between Redding and Red Bluff and shad below Red Bluff. Striped bass are taken during the spring and summer months south of Hamilton City. Salmon and steelhead are caught during the fall and winter months throughout the river. Largemouth bass, green sunfish, bluegill, and brown bullhead are taken from the many oxbow lakes and sloughs along the river.

There is little swimming in the river due to its strong currents and low temperature. However, sunbathers are often seen in parks at Redding, Anderson, Red Bluff, Woodson Bridge, Chico Landing, and Colusa. Water skiing is limited mainly to Lake Red Bluff and to the river near Colusa.

During recent years river touring by raft, canoe, or kayak has become popular in the reach below Keswick Dam. The best reaches are found above Red Bluff, especially Chinese Rapids in Iron Canyon. However, the river is ideal for all types of watercraft. In fact, one can see everything from inner tubes to big pontoon houseboats on the river.

The Sacramento is one of the few large rivers that offers long reaches of free-flowing water and dense streamside vegetation close to major population areas. It is scenic, and even near urban areas it retains a sense of isolation and remoteness, despite the fact that the band of vegetation screening urban or agricultural development is often only a few metres wide.

Public and privately owned recreation areas, resorts, and fishing access points along the river are numerous. State and federally operated campgrounds are found at Reading Island, Red Bluff Diversion Dam, Woodson Bridge, and Colusa-Sacramento River Recreation Areas. This atlas shows existing developed recreation sites where public access is available. Symbols indicate the type of facilities provided at each site. The atlas does not show privately owned areas such as river-oriented mobile home parks for permanent residences.

Major Navigation Hazards

There are numerous navigation hazards in the river. Tree snags, rocks, car bodies, and other obstacles can prove injurious or fatal to boaters. The navigational hazard identification element is the only such compilation for the northern Sacramento River. It was prepared by the Department of Navigation and Ocean Development (DNOD) in cooperation with the counties of Shasta, Tehama, Glenn and Colusa. County boating patrol personnel surveyed their respective stretches of the river and recorded the location and type of significant navigation hazards on the aerial maps, and the rough mapping record was incorporated into the maps shown in the following pages. Working from these data the State Lands Division undertook a snag removal program with the affected counties, but new boating hazards will inevitably develop over time, often in the same locations pinpointed in this atlas. Hopefully then, this element will serve to alert the boating public to problem areas of the river.

Public Land Ownership

Along the 160 miles of the Sacramento River extending from Colusa to Keswick Dam are numerous parcels of public land. These range from highly developed parks, like Tehama River Park at Woodson Bridge and Colusa State Park, to undeveloped low terrace gravel bars scattered along the length of the river.

From assessors' maps for the five counties bordering the river, lands owned by cities or counties and State or Federal Government were located and delineated on the atlas sheets. In several instances ownership of certain land parcels seemed questionable. If no taxes were being

paid, or if no parcel identification number was apparent, these lands were assumed to be in State ownership. In most instances those lands with nonspecific ownerships were low lying gravel bars, usually islands.

In the future, additional State lands may be identified. The State Lands Commission is currently determining ownership boundaries of State land in the Chico Landing area. As the need arises, this activity may be expanded to other land parcels along the river.

Bank Protection Areas

Bank protection shown in this report (commonly referred to as rock riprap) represents the effort of landowners along the river to protect their agricultural lands and flood control levees from the erosional forces of the Sacramento River. Most of these works were designed and constructed by the U. S. Corps of Engineers with approval and financial participation from the State of California through the State Reclamation Board. Bank protection work shown in this atlas comprises about 32 kilometres (20 miles) of riprap at present.

Within the atlas study area the USCE work effort is conducted under two projects: the Sacramento River Bank Protection Project and the Chico Landing to Red Bluff Project. Eight new sites, totaling about 5,500 metres (16,800 feet) are scheduled for construction during 1978.

Bank protection activities often require work that adversely affects fish and wildlife habitat and spoils the natural beauty of the river. To minimize these effects, construction practices are being altered in order to retain trees, shrubs and other vegetation where practicable. New rock placement methods such as "back-dumping" and

limiting the height of rock on the bank are now being employed to reduce environmental damage. A study is in progress to evaluate compensation for wildlife habitat losses through purchase of lands on or adjacent to levees and revegetation to provide a condition where they will sustain appropriate levels of wildlife.

Commercial Gravel Operations

This element includes not only the location of active gravel extraction sites but also farmer-built flood control levees, and small scale erosion control works, such as rubble riprap. Shown in the atlas are 16 gravel extraction sites with Reclamation Board operating permits. There are four sites of record without permits. North of Ord Ferry, above the leveed section of the river, there are 76 farmer-built levees. Only 33 of these have Reclamation Board permits. These farm levees range in height up to 3.3 metres (10 feet) and in length to 2 kilometres (1.2 miles). Also included in this element are seven erosion control sites, five of which are without Reclamation Board permits. These erosion control structures are usually attempts to stabilize the riverbank by the placement of rubble concrete. Most of these attempts are structurally inadequate and unsightly.

Several years ago, under Section 8710 of the California Water Code, the Reclamation Board adopted the permit system on the Sacramento and San Joaquin Rivers. This was intended to regulate activities within the designated floodway that might affect the flood-carrying capacity of the river. Some older gravel extraction sites, levees and erosion control works without permits are in arbitration between their owners and the Reclamation Board.

Waste Water Discharges

The State Water Resources Control Board, under statutes of the Porter Cologne Water Quality Control Act, is assigned the primary responsibility for the control of water quality in California. This responsibility for the Sacramento River has been further delegated to the California Regional Water Quality Control Board, Central Valley Region. Each regional board is currently formulating water quality control plans that will establish water quality objectives to ensure reasonable protection of all beneficial water uses and prevent nuisance.

The main tool for implementing these water quality objectives is by establishing a thorough monitoring and enforcement program. The Federal Water Pollution Control Act prohibits any point discharge of pollutants to the waters of the United States without a National Pollutant Discharge Elimination System (NPDES) permit. California was the first state to obtain approval of such a program and now issues such permits. The following listing shows the name, California permit number, volume of discharge and location of major waste dischargers between Colusa and Keswick Dams.

		WASTE DISCHARGERS		Estimated	Sheet	River
Discharger	Permit No.	MGD	Discharge	No.	Mile	
Spring Creek Debris Dam ⁽¹⁾	None			Not Shown		303.5
Redding, City of, Clear Creek STP	CA0079731 74-461	4.0		50		288.5
R.S. Cleary, North Valley Fish Hatchery	CA0004898 75-254	7.0		50		286.5
Shasta Dam Area P.U.D. STP ⁽²⁾	CA0079511 74-306	0.5		Not Shown		284.5
Redding, City of, Twin View STP ⁽³⁾	CA0077887 74-86	0.3		Not Shown		284.5
Redding, City of, Enterprise STP ⁽⁴⁾	CA0078905 74-340	0.7		Not Shown		284.5
Anderson, City of, STP	CA0077704 74-78	0.7		48		283.3
Simpson Paper Company	CA0004065 74-468	11.0		47		279.5
Rio Alto Water District	CA0077852 74-143	Potential Discharge		43		268.7
Red Bluff, City of, STP	CA0078891 74-304	1.3		35		244.2
Diamond International Corp.	CA0004821 74-69	2.0		34		243.0
Corning, City of, STP	CA0004995 74-298	0.5		27		218.0
Chico, City of, STP	CA0079081 74-296	2.5		Not Shown		193.0

- (1) Collects drainage from the Iron Mountain Mine area and assists in controlling a serious potential water quality problem of the upper Sacramento River.
- (2) Potential discharge between 1 October and 30 April to Churn Creek (approximately 26 kilometres [16 miles] upstream from confluence with Sacramento River).
- (3) Potential discharge between 31 October and 31 May to Churn Creek (approximately 19 kilometres [12 miles] from confluence with Sacramento River).
- (4) Potential discharge between 1 October and 30 April to Churn Creek (approximately 10 kilometres [6 miles] from confluence with Sacramento River).

Gaging Stations and
Water Quality Sampling Sites

The water quality of the Sacramento River is generally classified as excellent for nearly all purposes. The various data collection programs of many agencies form the data base and the surveillance necessary to determine and maintain this quality. Included in this atlas are the locations of Department of Water Resources stream-gaging stations, surface water quality monitoring stations, and some of the ground water quality monitoring wells located within the atlas study boundary.

The following table shows the location (river mile and atlas sheet number), recognized name, and function of several types of sampling stations. Some stations continuously record only river stage height, others continuously record stage height and are also used as a reference point for periodic surface water quality sampling. Ground water quality wells, on the other hand, are sampled once a year during the middle of the irrigation season to determine possible year-to-year changes in quality. Climatological (weather) stations are manned principally by nonpaid cooperators interested in maintaining a complete data network. Rainfall is measured daily at these stations.

The three sedimentation stations listed are serviced by U. S. Geological Survey personnel. Water samples are generally taken periodically during periods of high flood flow in order to best characterize the nature and quantity of the transported sediments.

Stream-Gaging Stations

<u>DWR Index Number</u>	<u>Location Name</u>	<u>River Mile</u>	<u>Atlas Sheet</u>	<u>Measurement Frequency</u>
A-02430	Sacramento River stage at Colusa Weir	146.4	2A	Continuous
A-02445	Sacramento River stage at Moulton Weir	158.4	6A	Continuous
A-02450	Sacramento River opposite Moulton Weir	158.6	6A	Continuous
A-02570	Sacramento River at Ord Ferry	184.2	16A	Continuous
A-02700	Sacramento River at Vina	218.3	27A	Continuous
A-02788	Sacramento River above Bend Bridge	260.3	40A	Continuous

Stream-Gaging and Surface Water Quality Sampling Stations

<u>DWR Index Number</u>	<u>Location Name</u>	<u>River Mile</u>	<u>Atlas Sheet</u>	<u>Measurement Frequency</u>
A-02420	Sacramento River at Colusa	143.5	2A	Monthly for W. Q.
A-02500	Sacramento River at Butte City	168.6	10A	Bi-monthly for W. Q.
A-02630	Sacramento River at Hamilton City	199.4	21A	3-month interval for W. Q.
A-21010	Sacramento River at Keswick Dam	301.5	55A	Monthly for W. Q.

Surface Water Quality Sampling Station

<u>DWR Index Number</u>	<u>Location Name</u>	<u>River Mile</u>	<u>Atlas Sheet</u>	<u>Measurement Frequency</u>
A-02785	Sacramento River at Bend Bridge	257.8	39A	Monthly

Ground Water Quality Sampling Wells

<u>Well Coordinates</u>	<u>Location Name</u>	<u>Nearest R. M.</u>	<u>Atlas Sheet</u>	<u>Measurement Frequency</u>
16N-1W-19F3	Colusa	144.5R	2A	Early summer
17N-1W-30K3	Moulton Weir	153.4L	5A	Early summer
17N-1W-6R1	Moulton Weir	159.8L	6A	Early summer
19N-1W-7B3	Glenn	174.0R	13A	Early summer
27N-3W-19A1	Red Bluff	245.7R	35A	Early summer
27N-3W-20A1	Red Bluff	246.3L	35A	Early summer
28N-3W-29G1	Bend	256.9L	38A	Early summer
28N-3W-28A1	Bend	253.6L	39A	Early summer
30N-3W-34D1	Balls Ferry	276.2R	46A	Early summer
32N-5W-26M2	Redding	299.4L	54A	Early summer

Climatological Stations

<u>DWR Index Number</u>	<u>Location Name</u>	<u>Nearest R. M.</u>	<u>Atlas Sheet</u>	<u>Measurement Frequency</u>
A0 6849-11	Phelan-Parrott Ranch	193.5L	19A	Daily
A0 3460	Glenn-Colusa Headgate	205.5R	23A	Daily
A0 4346	Jelly	268.5L	43A	Daily
A0 0201-30	Anderson STP	283.2R	48A	Daily
A0 7295-02	Redding 5 SSE	289.R	51A	Hourly

Sedimentation Sampling Stations

<u>DWR Index Number</u>	<u>Location Name</u>	<u>Nearest R. M.</u>	<u>Atlas Sheet</u>	<u>Measurement Frequency</u>
A-02420	Sacramento River at Colusa	143.5R	2A	High flow
A-02630	Sacramento River at Hamilton City	199.4L	21A	High flow
A-02788	Sacramento River above Bend Bridge	260.3	40A	High flow

Salmon Spawning Areas

The State Department of Fish and Game through the years has documented king salmon spawning areas in the upper Sacramento River. These major spawning areas are located upstream from Woodson Bridge, river mile 219, and are characterized by gravel of ideal size, water depth greater than 0.3 metres (0.8 feet) and water velocities between .4 and 1.1 metres (1.3 and 3.5 feet) per second measured .2 metres (one-half foot) above the gravel. The gravel areas shown in this atlas are generalized, many small spawning areas other than delineated exist throughout the entire upper reaches of the river.

Salmon spawning gravels in the Redding area are deteriorating --- smaller gravel is being washed away. High sustained flows scour the river bottom and leave behind only the larger rock that tends to armor the bottom against effective spawning. Gravel replenishment to the Redding region is blocked by Keswick and Shasta Dams. Spawning gravels, then, are a finite resource that is gradually diminishing.

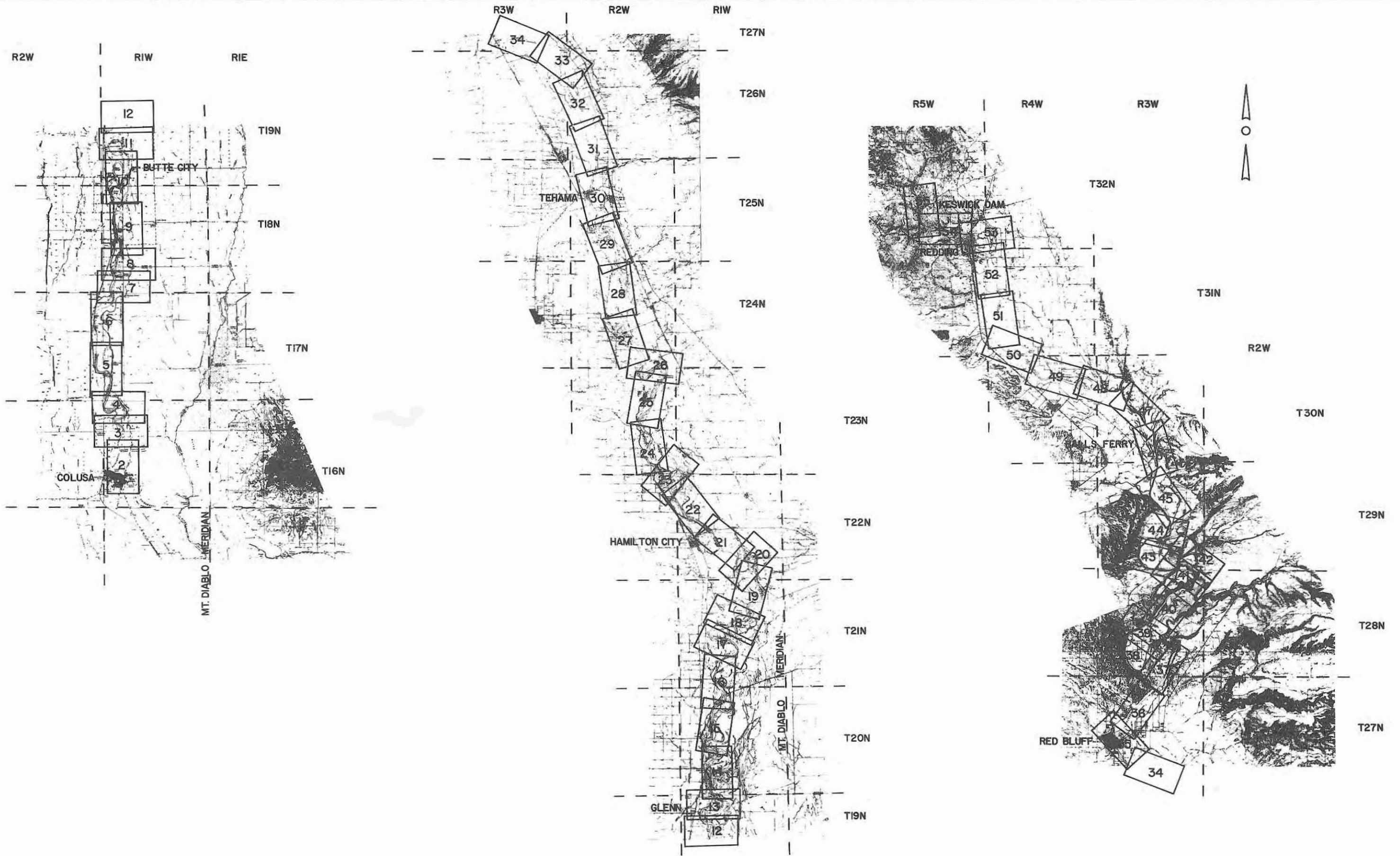
If future runs of king salmon in the Sacramento River are to be sustained then an increasing degree of attention and protection must be given to the preservation of these important spawning areas.

1970 Flood Line

This atlas shows the extent of flooding during recent times in the upper Sacramento Valley. Shasta Reservoir began to fill in 1945. There were floods in 1955, 1958, 1964, 1969, 1970, and twice in 1974. Of these, the flood of 1970 was best documented. By the use of aerial photographs, measurements of debris lines, river stage records, and

markings made by residents along the river, the extent of maximum flooding, particularly north of Ord Ferry, where the Sacramento Valley flood control project begins, was accurately determined. This line, marking the maximum extent of flooding in 1970, is shown in the atlas beginning on sheet 2. On many atlas sheets, our photographic coverage was too confined to show the actual area flooded. In these instances, the line marking the extent of flooding was merely drawn along the edge of the atlas map.

The Designated Floodway, already discussed under study area boundaries, is defined as the normal water channel plus that portion of the adjoining flood plain needed to carry a flow of a specific size. For the counties within the study area, the 1958 flood was selected as the representative flow. Due to contributions from tributary streams, the channel size needed to carry a given flood-flow increases as you go down-river. For example, the 1958 flood was measured at 3,960 cubic metres (140,000 cubic feet per second) at Red Bluff, 5,100 cubic metres (180,000 cfs) at Vina, and increased to 6,510 cubic metres (230,000 cfs) at Ord Ferry. The designated floodway line, as shown in this atlas, should not be misinterpreted. It shows the extent of flooding if adequate works were present, such as levees, dikes, or natural high berms. In many areas where no such works are present, floods such as those recorded in 1958 and 1970 actually extended far outside the designated floodway line.



APPROXIMATE SCALE: 1 INCH = 5 MILES

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm


STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE

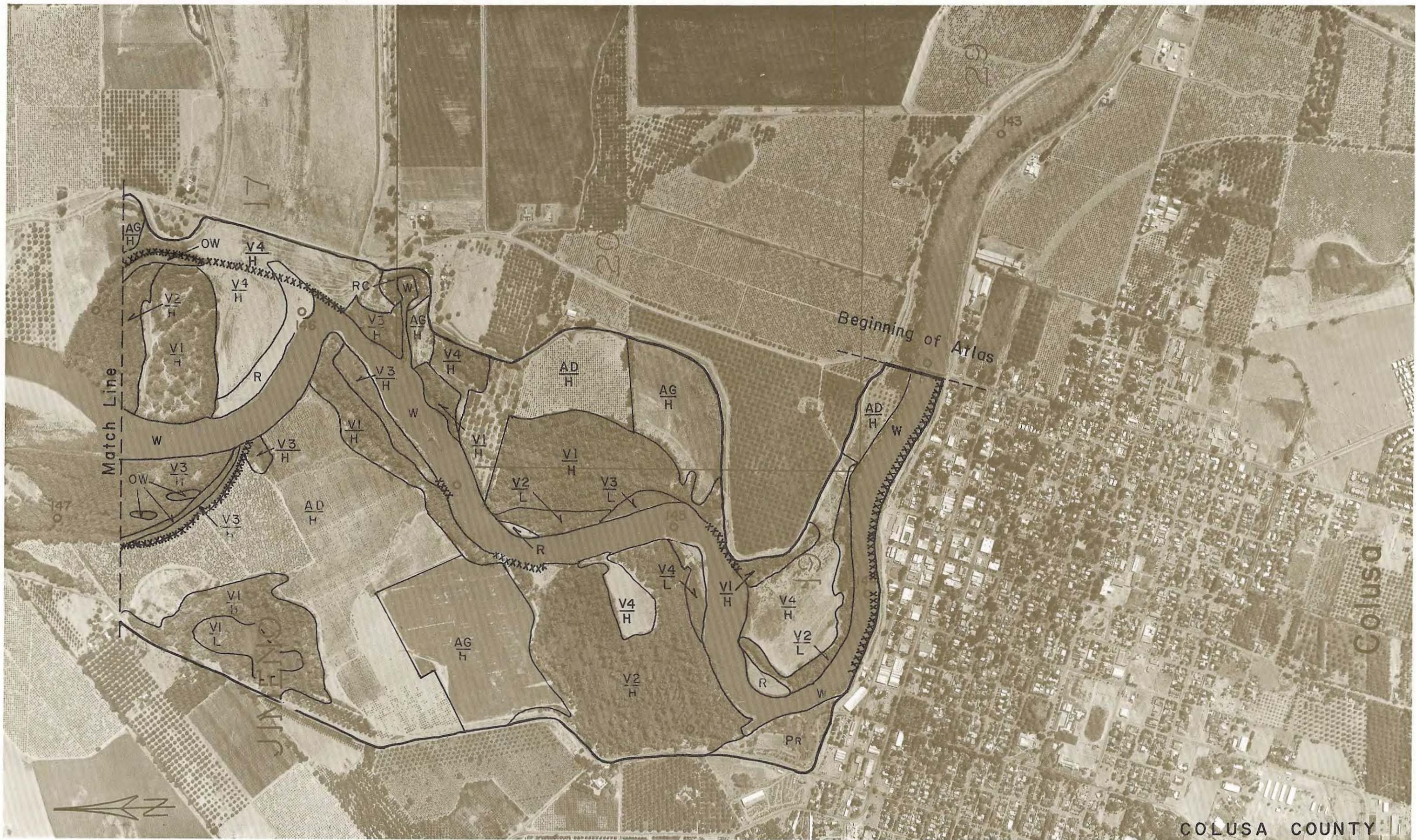
SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

INDEX OF ENLARGEMENTS

Index to Sheet 2

Land Use and Riparian Vegetation

Symbol	Colusa County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	38 0	93 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	84 0	207 0	Deciduous orchard		
VI high terrace low terrace	50 4	123 11	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	55 3	136 7	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	14 2	35 4	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	40 2	100 5	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	281 11	694 27			
U	0	0	Urban or urban related		
PR	6	14	Formal parks, e.g. Woodson Bridge State Park.		
Rc	2	5	Commercial recreation		
W	52	129	Water surface		
OW	2	6	Oxbow lakes, isolated from river		
R	6	16	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	360	891			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-10

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


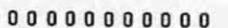

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM




Land Use
 and
 Riparian Vegetation

SHEET
 2

Index to Sheet 2A

Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

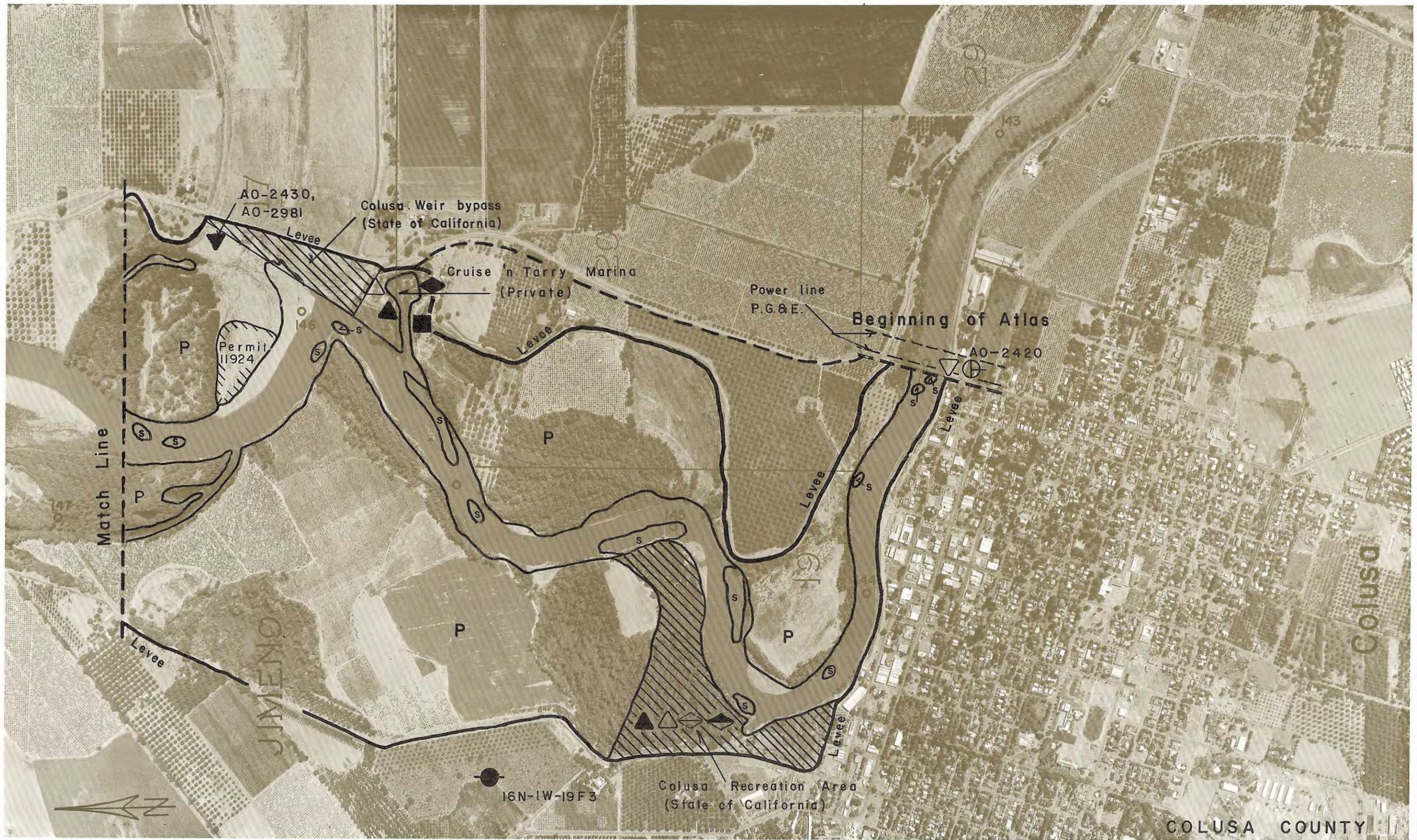
			Hectares	Acres
P	Prime Agricultural Land	Colusa County	278	686

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-10

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

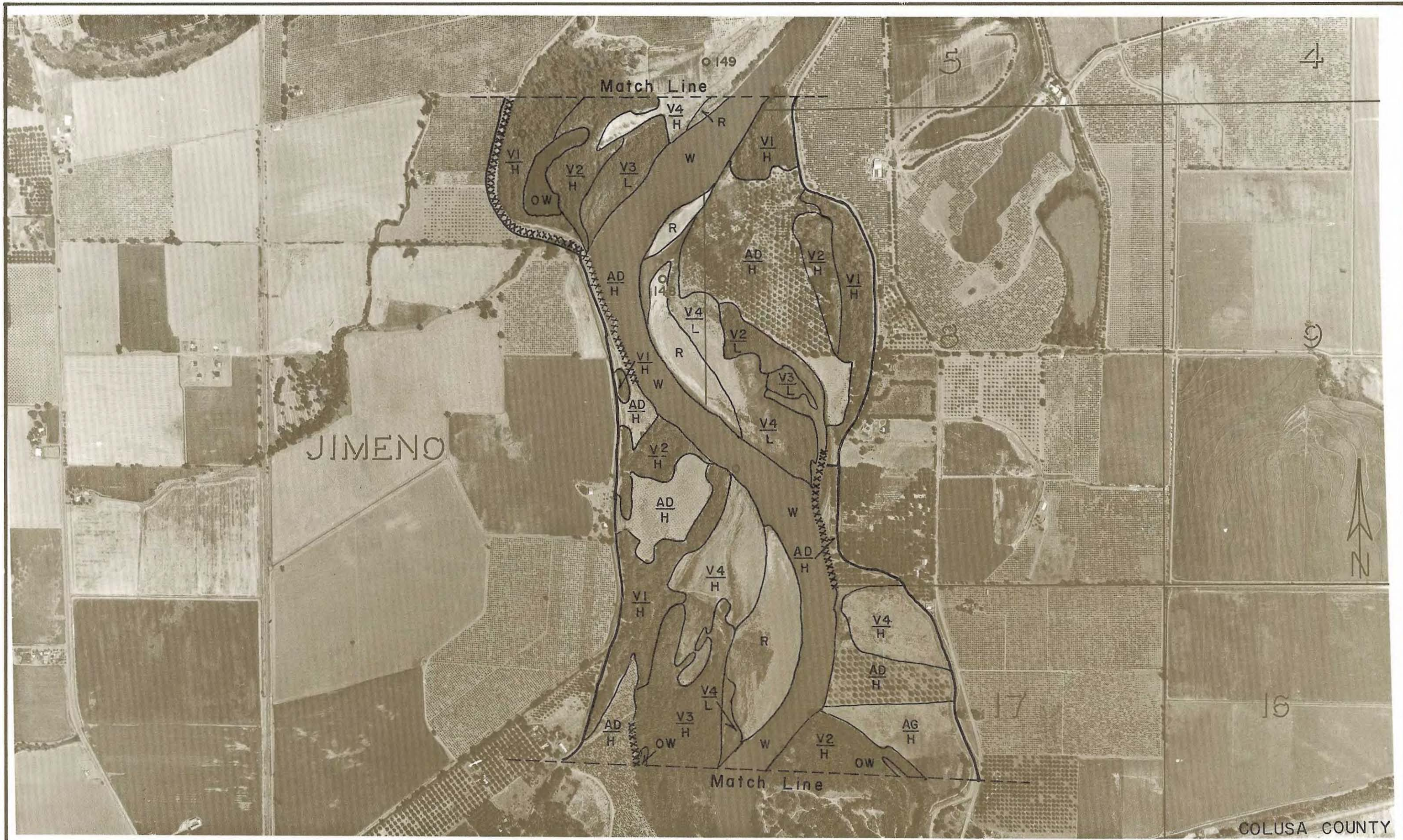
Prime Agricultural
 Lands

SHEET
 2
 A

Index to Sheet 3

Land Use and Riparian Vegetation

Symbol	Colusa County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	8 0	20 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	47 0	116 0	Deciduous orchard		
VI high terrace low terrace	33 0	82 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	21 5	52 13	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	13 7	31 17	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	21 13	51 33	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	143 25	352 63			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	40	98	Water surface		
OW	3	7	Oxbow lakes, isolated from river		
R	18	45	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	229	565			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-II

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
 and
 Riparian Vegetation

SHEET
 3


Index to Sheet 3A

Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag

 Public Lands (Name of Owner)

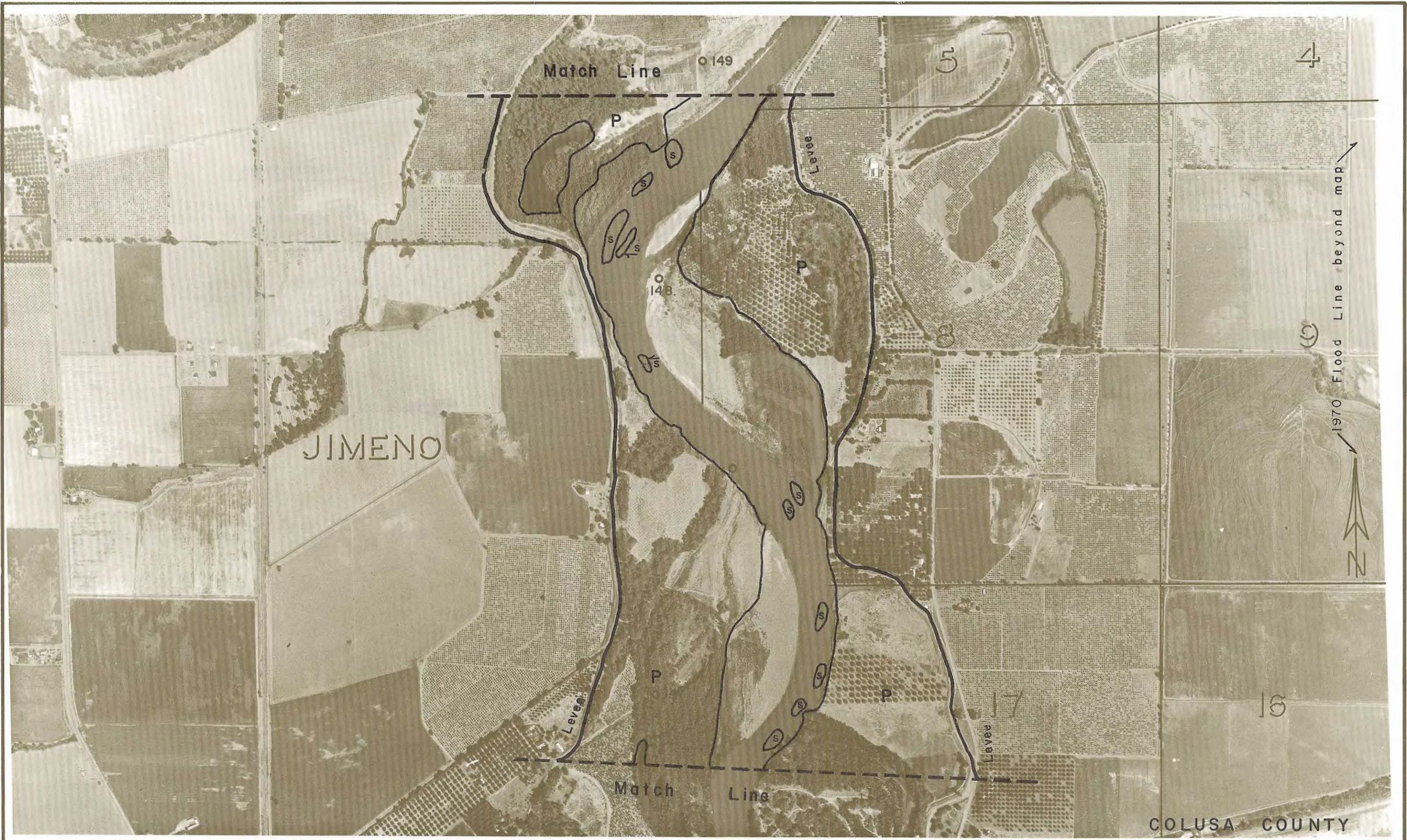
P Prime Agricultural Land Colusa County Hectares 154 Acres 380

GAGING STATIONS

- | | |
|--|---|
|  Stream Gage |  Climatological Station |
|  Stream Gage and Surface Water Quality Sampling Station |  Sedimentation Sampling Station |
|  Surface Water Quality Sampling Station |  Waste Discharge Point
(Name of Facility) |
|  Ground Water Sampling Station |  Sanitary Disposal Plant
(Name of Facility) |

RECREATION FACILITIES

- | | |
|--|--|
|  Camping |  Cafe, Bait, Tackle, and Gas |
|  Picnicking |  Cafe |
|  Boat Ramp, Docks, and Rentals |  Bait and Tackle |
|  Boat Dock or Slip |  Gas |
|  Boat Ramp or Hoist |  Archeological-Historical Sites |
|  Boat Rentals | |



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-II

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

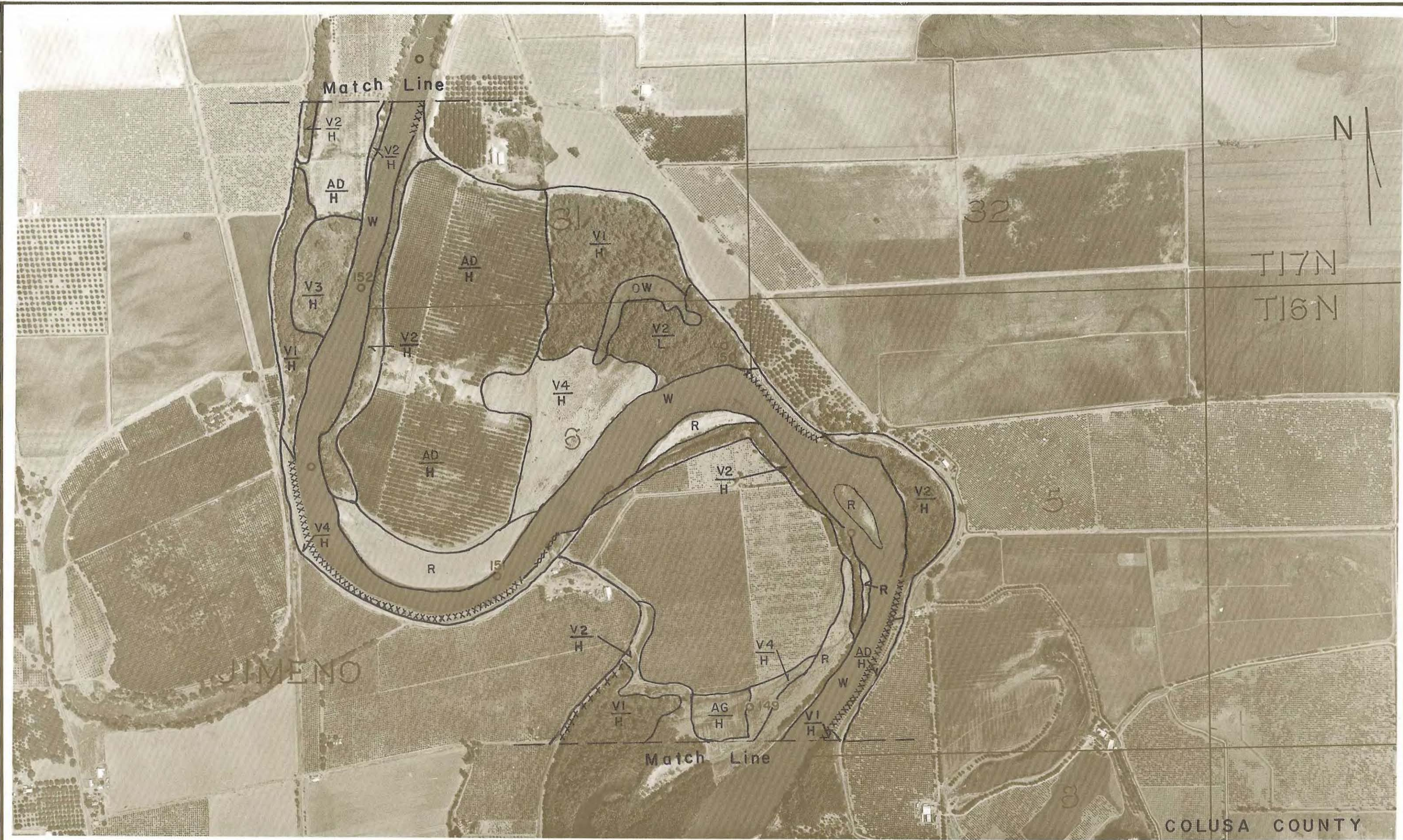
Prime Agricultural
 Lands

SHEET
 3
 A

Index to Sheet 4

Land Use and Riparian Vegetation

Symbol	Colusa County			Denominator Symbols	
	Hectares	Acres			
AG high terrace	4	9	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0			
AD high terrace	136	337	Deciduous orchard		
low terrace	0	0			
VI high terrace	35	87	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	0	0			
V2 high terrace	29	71	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
low terrace	11	26			
V3 high terrace	8	19	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	0	0			
V4 high terrace	25	63	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
low terrace	0	0			
Sub-total					
high terrace	237	586			
low terrace	11	26			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	58	143	Water surface		
OW	4	9	Oxbow lakes, isolated from river		
R	20	49	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	330	813			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-12

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


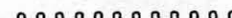

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

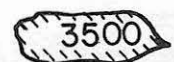

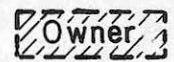
Land Use
 and
 Riparian Vegetation

SHEET 4

Index to Sheet 4A





Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

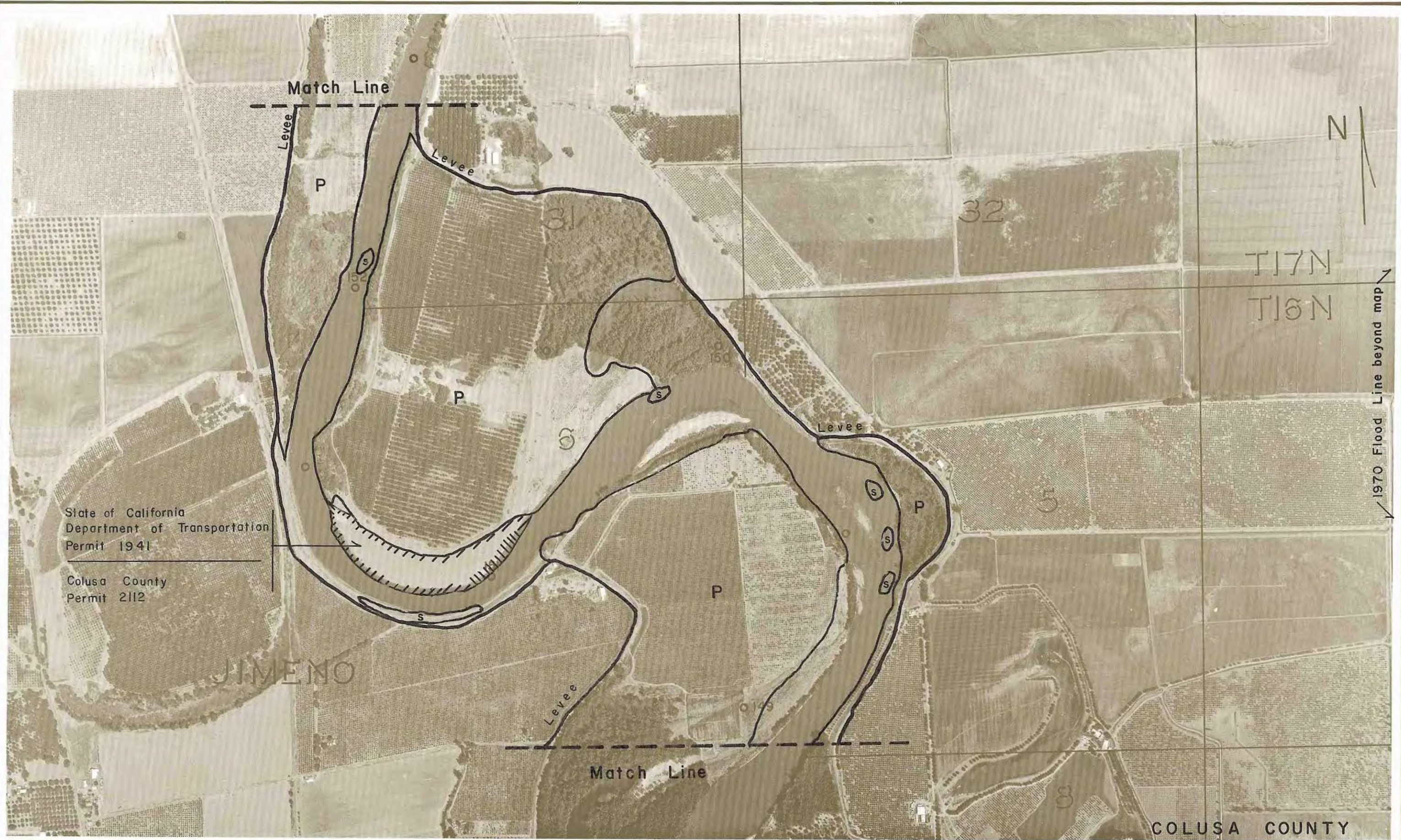
			Hectares	Acres
P	Prime Agricultural Land	Colusa County	214	528

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-12

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

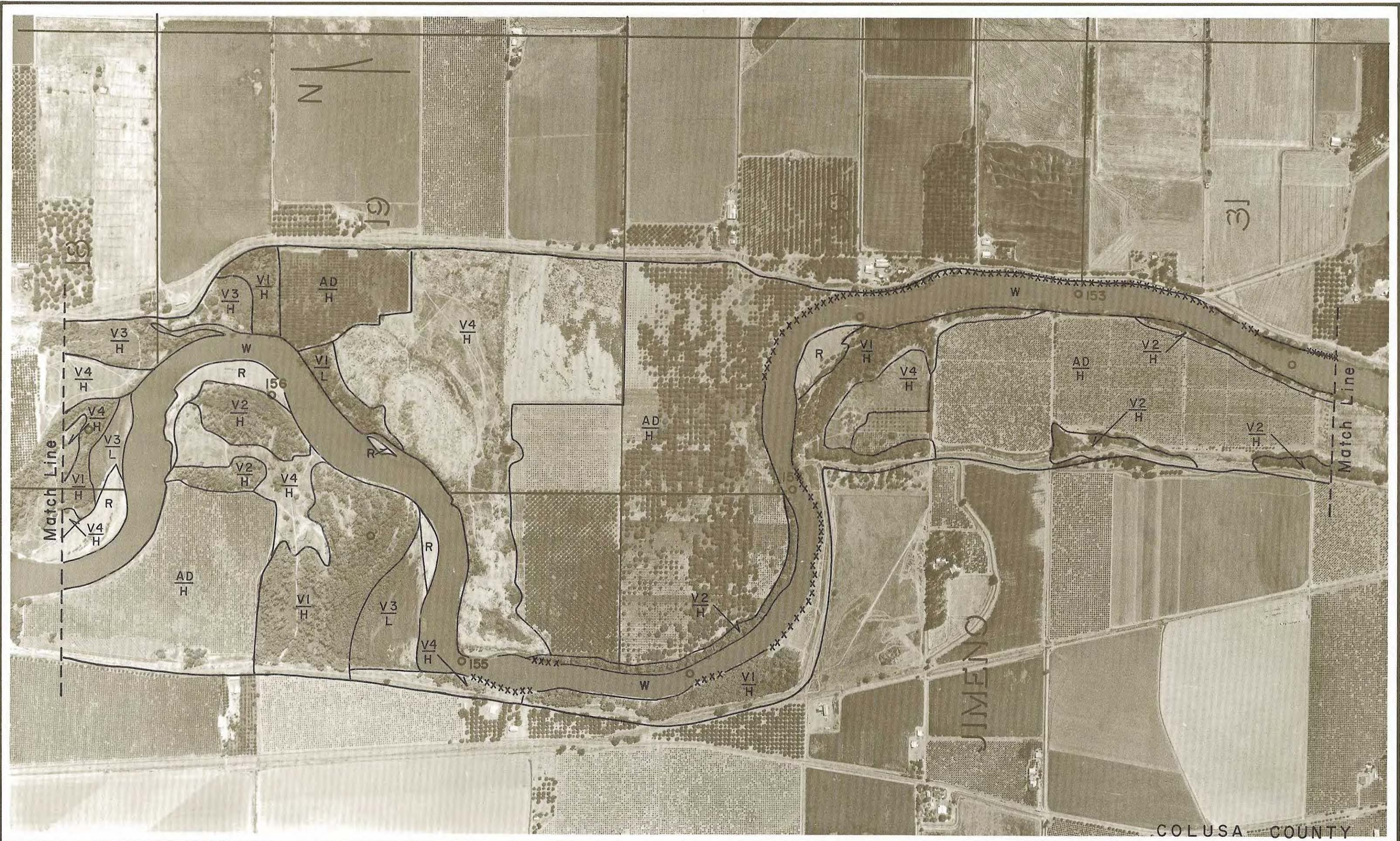
Prime Agricultural
Lands

SHEET
4
A

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Land Use and Riparian Vegetation

Symbol	Colusa County			Denominator Symbols
	Hectares	Acres		
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high
AD high terrace low terrace	214 0	528 0	Deciduous orchard	
V1 high terrace low terrace	62 4	154 11	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low
V2 high terrace low terrace	23 0	57 0	Vegetation similar to V1 but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx
V3 high terrace low terrace	11 12	26 29	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.	
V4 high terrace low terrace	92 0	228 0	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.	Salmon spawning areas
Sub-total high terrace low terrace	402 16	993 40		
U	0	0	Urban or urban related	
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.	
Rc	0	0	Commercial recreation	
W	77	190	Water surface	
OW	0	0	Oxbow lakes, isolated from river	
R	12	30	Gravel bars, rocks, sand	
GH			Grass, upland hardwoods, mainly oak	
Total	507	1 253		



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-14

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

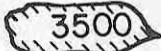

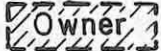
Land Use
 and
 Riparian Vegetation

SHEET
 5

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line


-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

P	Prime Agricultural Land	Colusa County	Hectares	Acres
			397	981

GAGING STATIONS


- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|




Index to Sheet 6


Land Use and Riparian Vegetation

Symbol	Colusa County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	27 0	66 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	109 0	269 0	Deciduous orchard		
VI high terrace low terrace	79 0	196 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison-oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	31 0	76 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	6 2	14 5	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	83 32	206 79	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	335 34	827 84			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	74	182	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	40	98	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	483	1 191			

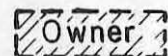
Index to Sheet 6A

Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

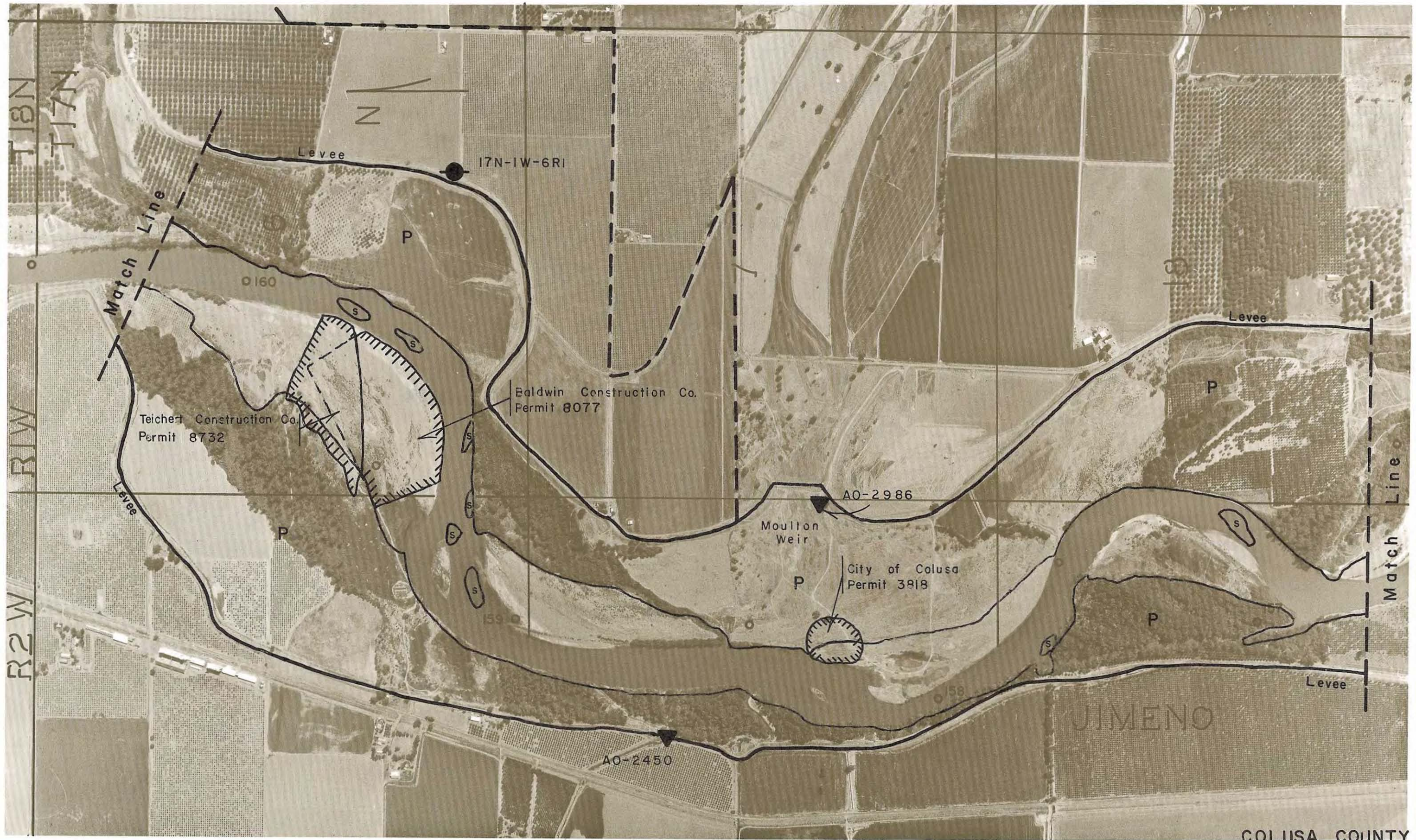
P	Prime Agricultural Land	Colusa County	Hectares 331	Acres 818
---	-------------------------	---------------	-----------------	--------------

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|




COLUSA COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-1-16</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Prime Agricultural Lands</p>	<p>SHEET 6 A</p>
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Index to Sheet 7

Land Use and Riparian Vegetation

Symbol	Colusa County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	26 0	65 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	121 0	300 0	Deciduous orchard		
VI high terrace low terrace	37 0	91 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	11 0	27 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	13 0	33 0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	208 0	516 0			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	21	53	Water surface		
OW	3	8	Oxbow lakes, isolated from river		
R	4	11	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	236	588			

LARKINS CHILDRENS
RANCHO



COLUSA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-19

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
COLUSA TO KESWICK DAM


Land Use
and
Riparian Vegetation

SHEET
7

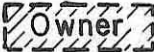
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

P	Prime Agricultural Land	Colusa County	Hectares	Acres
			200	494

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-19

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Colusa County		Glenn County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	high terrace	16	40	52	128	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0			
AD	high terrace	9	22	55	135	Deciduous orchard		
	low terrace	0	0	0	0			
VI	high terrace	76	189	32	79	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
	low terrace	0	0	0	0			
V2	high terrace	1	3	3	7	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx	Riprap
	low terrace	0	0	0	0			
V3	high terrace	0	0	5	12	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
	low terrace	7	17	0	0			
V4	high terrace	13	32	8	19	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
	low terrace	25	61	9	23			
Sub-total								
	high terrace	115	286	155	380			
	low terrace	32	78	9	23			
U		0	0	0	0	Urban or urban related		
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc		0	0	0	0	Commercial recreation		
W		19	46	15	37	Water surface		
OW		6	15	4	9	Oxbow lakes, isolated from river		
R		4	9	3	7	Gravel bars, rocks, sand		
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total		176	434	186	456			

LARKINS CHILDRENS RANCHO



COLUSA COUNTY and GLENN COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-1-20

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


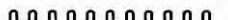

SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Land Use
and
Riparian Vegetation

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Index to Sheet 8A

Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag











 Public Lands (Name of owner)

P	Prime Agricultural Land		Hectares	Acres
		Colusa County	107	265
		Glenn County	160	395

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|---|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|--|

LARKINS CHILDRENS RANCHO



COLUSA COUNTY
and
GLENN COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-1-20

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
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UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Colusa County		Glenn County			Denominator Symbols	
	Hectares	Acres	Hectares	Acres			
AG high terrace	4	10	53	131	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0	0	0			
AD high terrace	0	0	192	474	Deciduous orchard		
low terrace	0	0	0	0			
VI high terrace	21	52	100	248	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	0	0	2	5			
V2 high terrace	0	0	23	57	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxxx	Riprap
low terrace	0	0	8	20			
V3 high terrace	2	6	20	49	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	0	0	27	66			
V4 high terrace	12	30	66	162	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
low terrace	0	0	13	33			
Sub-total							
high terrace	39	98	454	1 121			
low terrace	0	0	50	124			
U	0	0	0	0	Urban or urban related		
PR	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	0	0	Commercial recreation		
W	7	17	75	185	Water surface		
OW	0	0	5	13	Oxbow lakes, isolated from river		
R	18	44	17	41	Gravel bars, rocks, sand		
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total	64	159	601	1 484			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-21

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
 and
 Riparian Vegetation




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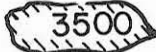


GLENN CO.
 COLUSA CO.

Princeton
 COLUSA COUNTY
 and
 GLENN COUNTY

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line











-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

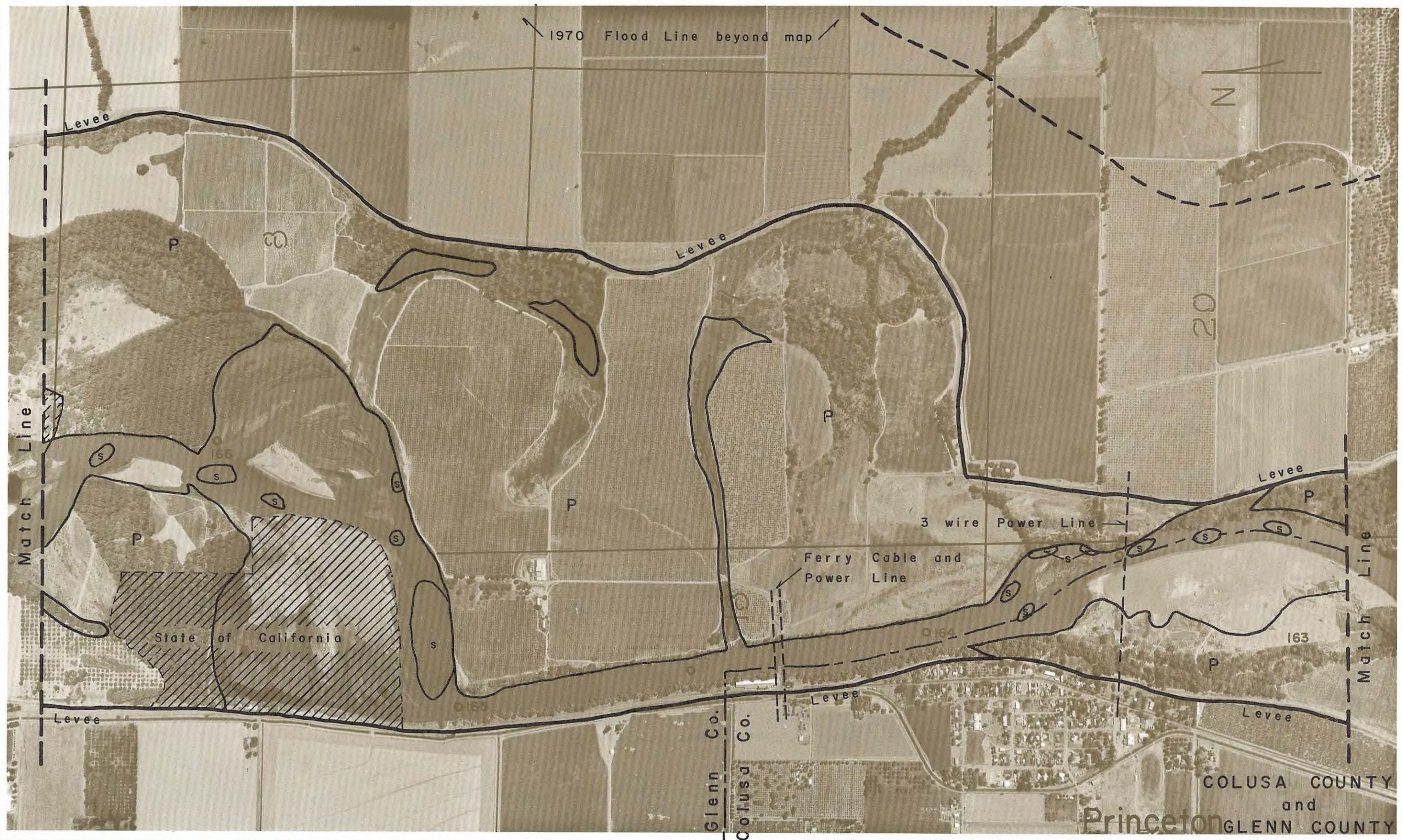
		Hectares	Acres
P	Prime Agricultural Land		
	Colusa County	31	76
	Glenn County	433	1 070

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-21

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

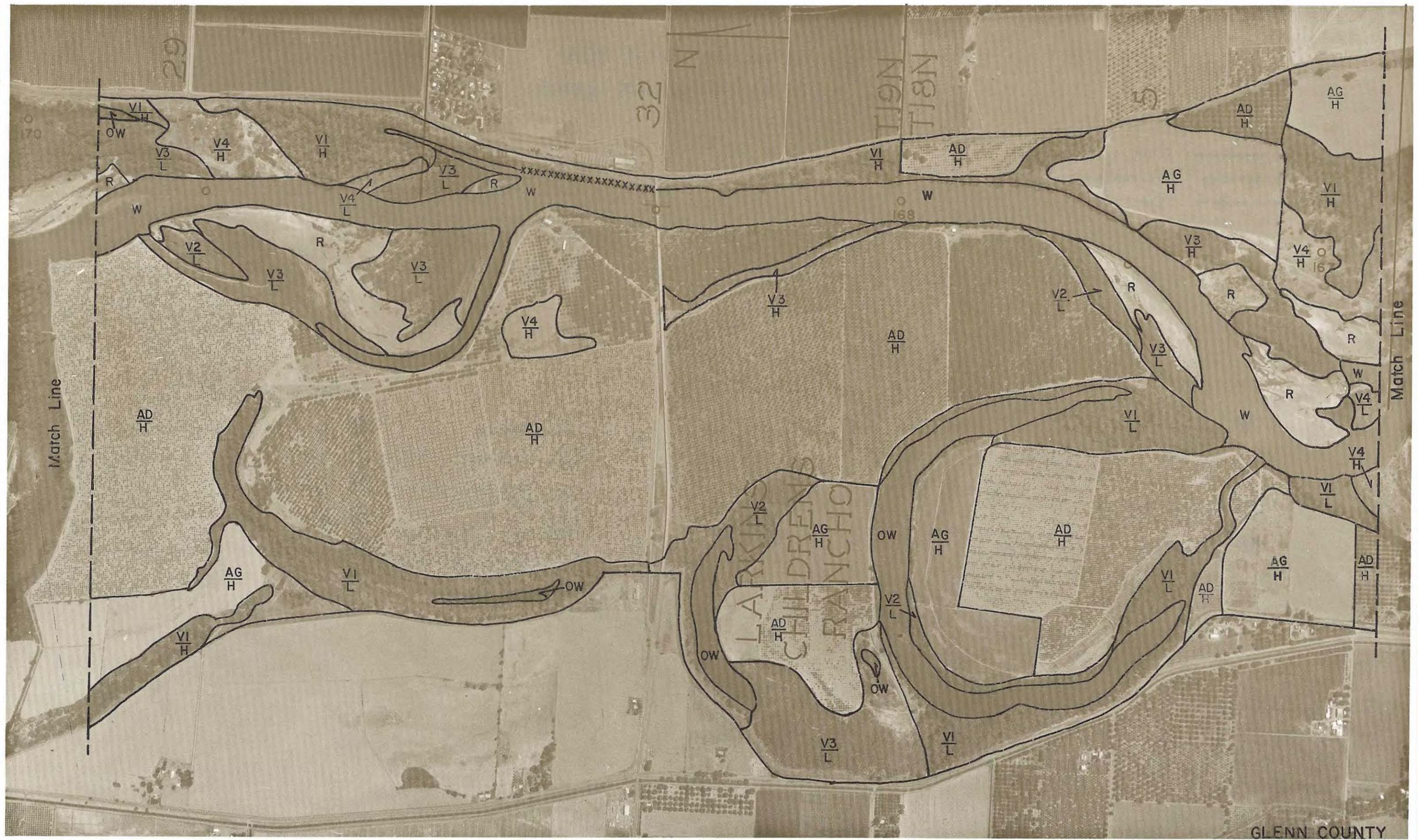
Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Glenn County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	101 0	249 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	376 0	929 0	Deciduous orchard		
VI high terrace low terrace	49 59	122 147	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 21	0 53	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	14 55	35 136	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	22 4	55 9	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	562 139	1 390 345			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	69	170	Water surface		
OW	28	70	Oxbow lakes, isolated from river		
R	35	87	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	833	2 062			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-23

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


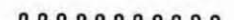

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

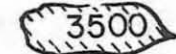


Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line










-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

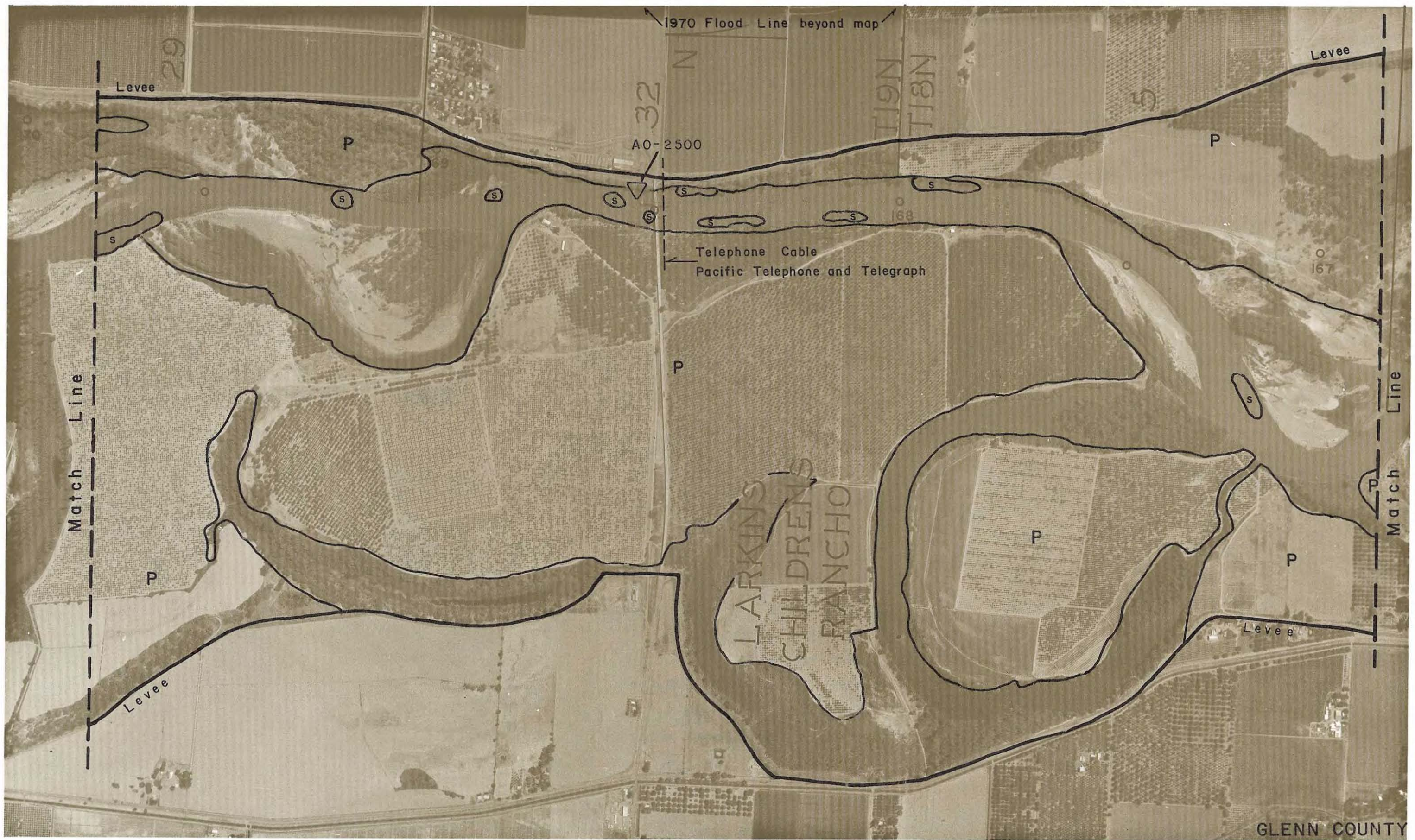
			Hectares	Acres
P	Prime Agricultural Land	Glenn County	566	1 398

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-1-23

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Prime Agricultural
Lands

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Land Use and Riparian Vegetation

Symbol	Glenn County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	74 0	183 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	205 0	507 0	Deciduous orchard		
VI high terrace low terrace	104 43	258 107	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low xxxxx	Low terrace lands generally inundated at only moderately high river flows. Riprap
V2 high terrace low terrace	34 0	83 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.		Salmon spawning areas
V3 high terrace low terrace	1 17	1 42	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		
V4 high terrace low terrace	30 2	75 4	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	448 62	1 107 153			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	36	88	Water surface		
OW	9	23	Oxbow lakes, isolated from river		
R	23	58	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	578	1 429			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-24

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


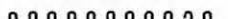

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

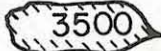


Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

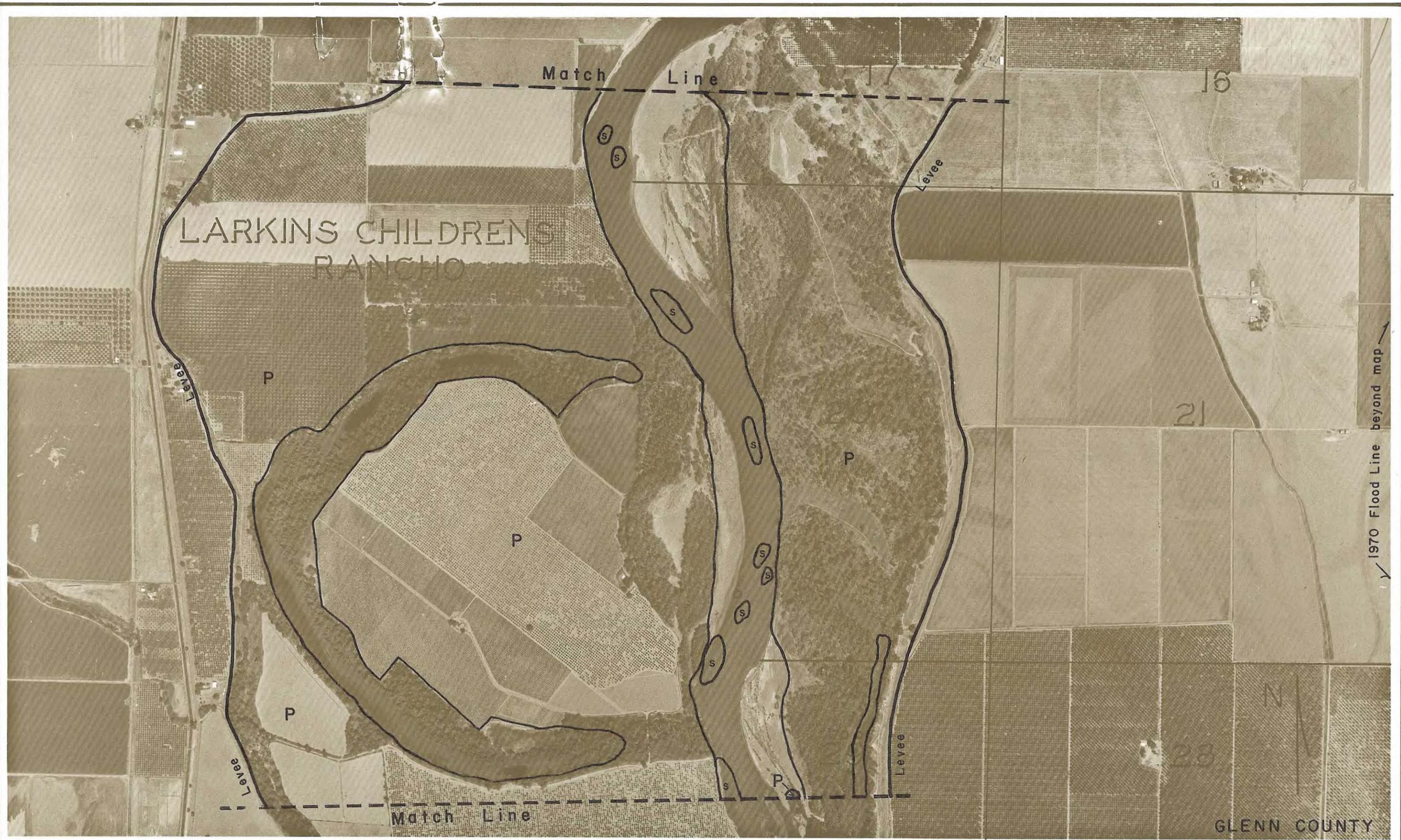
		Hectares	Acres
P	Prime Agricultural Land Glenn County	467	1 155

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-24

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Glenn County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	70 0	172 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	191 0	472 0	Deciduous orchard		
VI high terrace low terrace	42 0	103 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	20 11	50 26	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	3 29	8 72	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	23 4	56 10	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	349 44	861 108			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation.		
W	64	158	Water surface		
OW	2	5	Oxbow lakes, isolated from river		
R	28	68	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	487	1 200			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-25

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


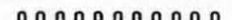

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

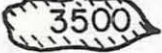

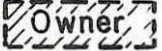
Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line










-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

P	Prime Agricultural Land	Glenn County	Hectares	Acres
			351	868

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-25

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

SHEET
 12
 A

Index to Sheet 13

Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols	
	Hectares	Acres	Hectares	Acres			
AG	high terrace	24	59	36	88	General crops including grains, alfalfa, pasture, and row crops.	H high High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0		
AD	high terrace	0	0	168	415	Deciduous orchard	
	low terrace	0	0	0	0		
VI	high terrace	0	0	3	8	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses	L low Low terrace lands generally inundated at only moderately high river flows.
	low terrace	3	7	14	35		
V2	high terrace	6	15	14	34	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx Riprap
	low terrace	2	4	49	121		
V3	high terrace	10	24	7	18	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.	 Salmon spawning areas
	low terrace	8	19	17	43		
V4	high terrace	17	41	40	99	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.	
	low terrace	1	1	14	34		
Sub-total							
	high terrace	57	139	268	662		
	low terrace	13	31	94	233		
U		0	0	0	0	Urban or urban related	
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.	
Rc		0	0	0	0	Commercial recreation	
W		3	8	53	131	Water surface	
OW		0	0	2	5	Oxbow lakes, isolated from river	
R		0	0	33	82	Gravel bars, rocks, sand	
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks	
Total		73	178	450	1 113		



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-26

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

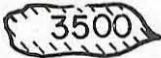


Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres
P Prime Agricultural Land	Butte County	79	196
	Glenn County	347	858

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES


- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|

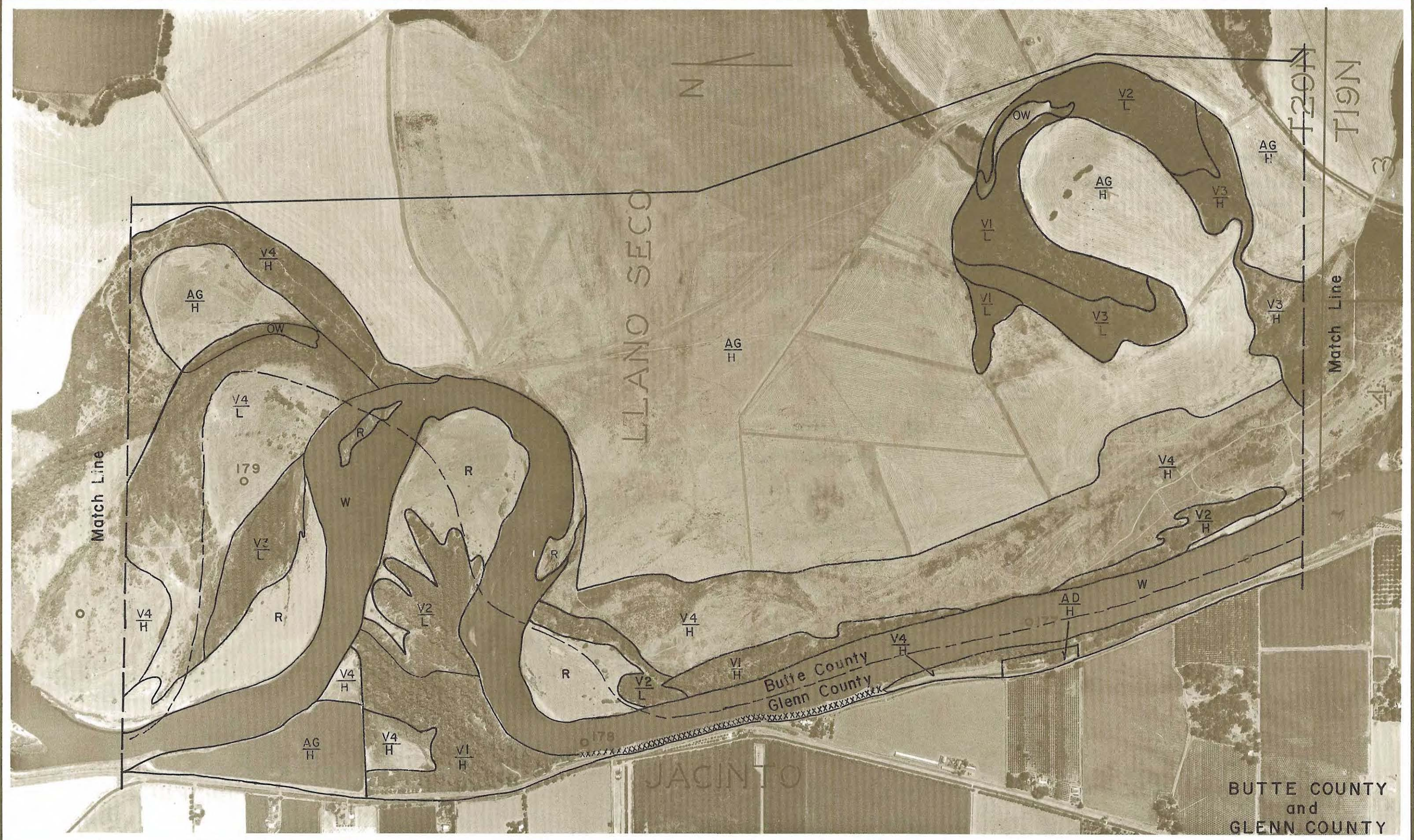


APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-1-26	PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm	STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE	SACRAMENTO RIVER COLUSA TO KESWICK DAM	Prime Agricultural Lands	SHEET 13 A
--	---	--	---	-----------------------------	------------------

Index to Sheet 14

Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	high terrace	374	923	14	35	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0			
AD	high terrace	0	0	2	4	Deciduous orchard		
	low terrace	0	0	0	0			
VI	high terrace	7	18	21	51	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
	low terrace	17	42	0	0			
V2	high terrace	5	13	0	0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx	Riprap
	low terrace	19	48	13	31			
V3	high terrace	13	32	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
	low terrace	11	26	10	24			
V4	high terrace	102	251	18	45	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
	low terrace	30	74	20	50			
Sub-total								
	high terrace	501	1 237	55	135			
	low terrace	77	190	43	105			
U		0	0	0	0	Urban or urban related		
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc		0	0	0	0	Commercial recreation		
W		40	99	58	144	Water surface		
OW		5	12	0	0	Oxbow lakes, isolated from river		
R		17	42	32	78	Gravel bars, rocks, sand		
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total		640	1 580	188	462			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-30

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

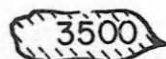

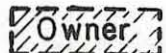
Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

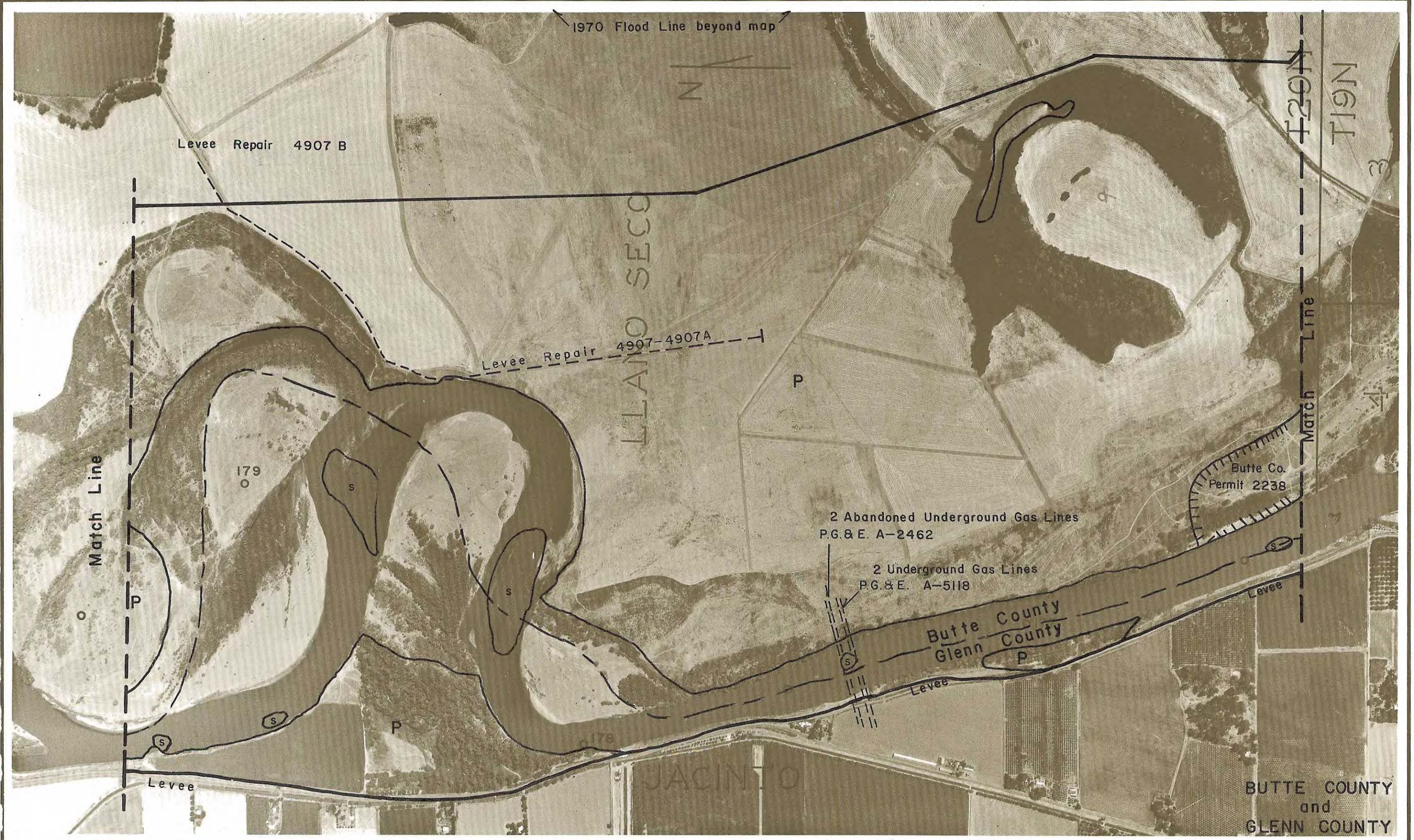
		Hectares	Acres
P	Prime Agricultural Land		
	Butte County	550	1 358
	Glenn County	43	107

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-1-30

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

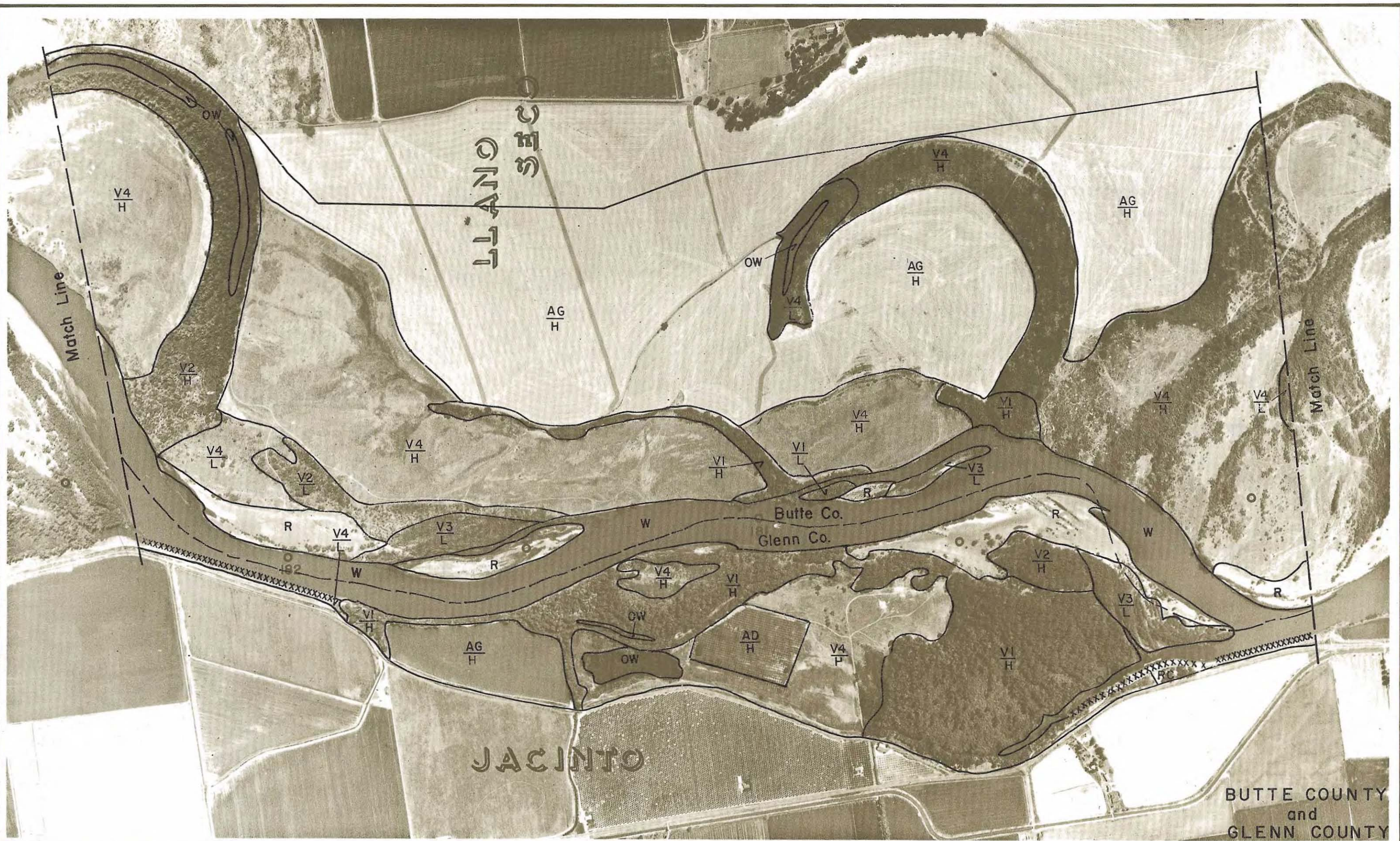
Prime Agricultural
Lands

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Index to Sheet 15

Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	high terrace	199	492	14	34	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0			
AD	high terrace	0	0	8	19	Deciduous orchard		
	low terrace	0	0	0	0			
VI	high terrace	11	26	68	169	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses	L low	Low terrace lands generally inundated at only moderately high river flows.
	low terrace	1	2	0	0			
V2	high terrace	0	0	5	12	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx	Riprap
	low terrace	9	22	0	0			
V3	high terrace	0	0	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
	low terrace	7	18	6	14			
V4	high terrace	226	559	30	75	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
	low terrace	16	39	3	7			
Sub-total								
	high terrace	436	1 077	125	309			
	low terrace	33	81	9	21			
U		0	0	0	0	Urban or urban related		
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc		0	0	1	3	Commercial recreation		
W		80	198	27	67	Water surface		
OW		4	11	4	9	Oxbow lakes, isolated from river		
R		19	46	13	32	Gravel bars, rocks, sand		
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total		572	1 413	179	441			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-32

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 TISDALE WEIR TO KESWICK DAM




Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres
P Prime Agricultural Land	Butte County	467	1 155
	Glenn County	134	330

GAGING STATIONS




- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|




RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

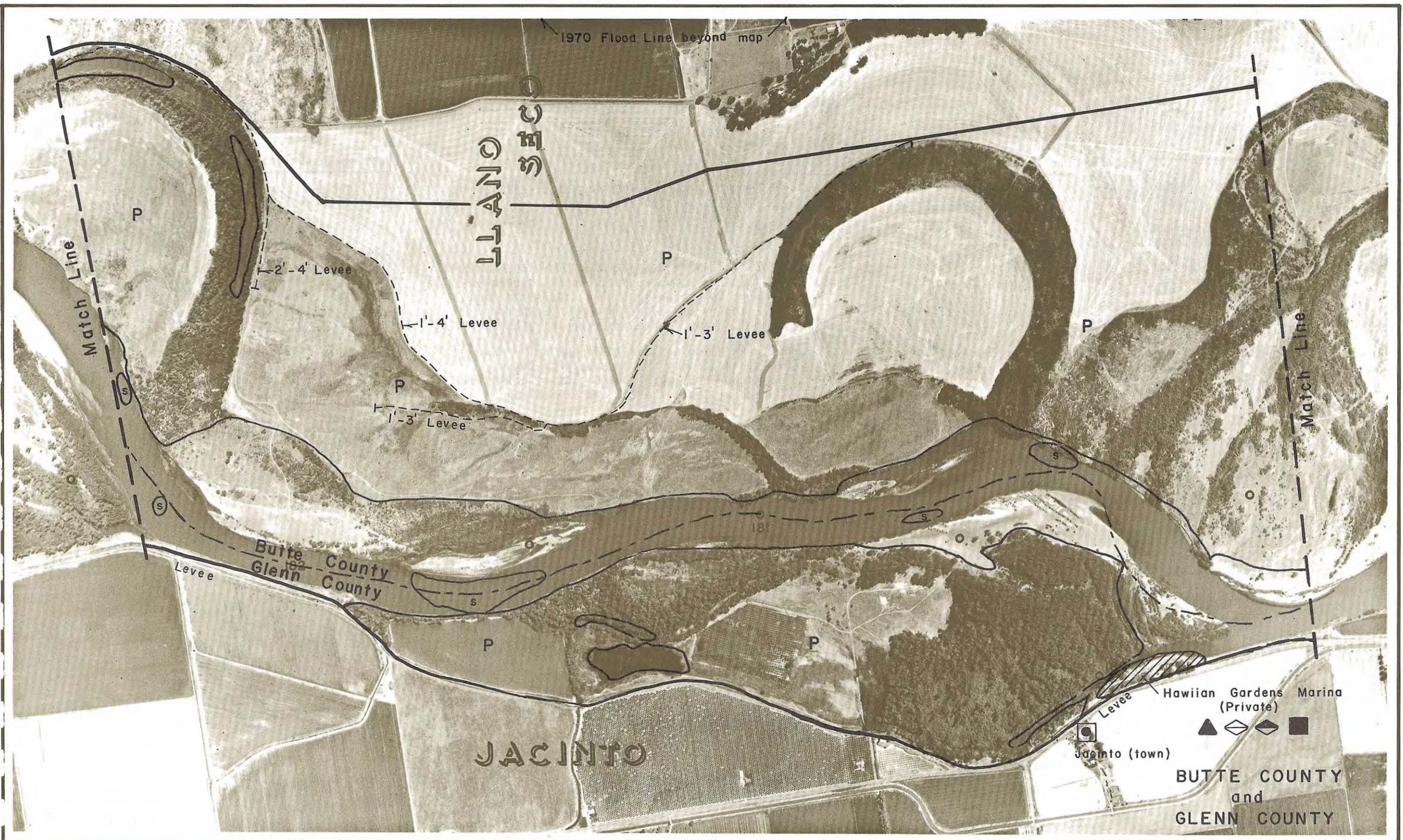
		Hectares	Acres
P Prime Agricultural Land	Butte County	467	1 155
	Glenn County	134	330

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-32

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 TISDALE WEIR TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols	
	Hectares	Acres	Hectares	Acres			
AG	high terrace	236	582	68	169	General crops including grains, alfalfa, pasture, and row crops.	H high High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0		
AD	high terrace	59	147	60	149	Deciduous orchard	
	low terrace	0	0	0	0		
VI	high terrace	0	0	13	31	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low Low terrace lands generally inundated at only moderately high river flows.
	low terrace	0	0	0	0		
V2	high terrace	21	51	26	65	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxxx Riprap
	low terrace	0	0	20	50		
V3	high terrace	30	74	32	79	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.	 Salmon spawning areas
	low terrace	6	14	17	41		
V4	high terrace	13	31	8	19	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.	
	low terrace	4	11	24	59		
Sub-total							
	high terrace	359	885	207	512		
	low terrace	10	25	61	150		
U		0	0	0	0	Urban or urban related	
PR		0	0	4	10	Formal parks, e.g. Woodson Bridge State Park.	
Rc		0	0	0	0	Commercial recreation	
W		49	122	55	137	Water surface	
OW		2	5	1	2	Oxbow lakes, isolated from river	
R		23	58	30	73	Gravel bars, rocks, sand	
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks	
Total		443	1 095	358	884		



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-34

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM




Land Use
 and
 Riparian Vegetation




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BUTTE COUNTY
 and
 GLENN COUNTY

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

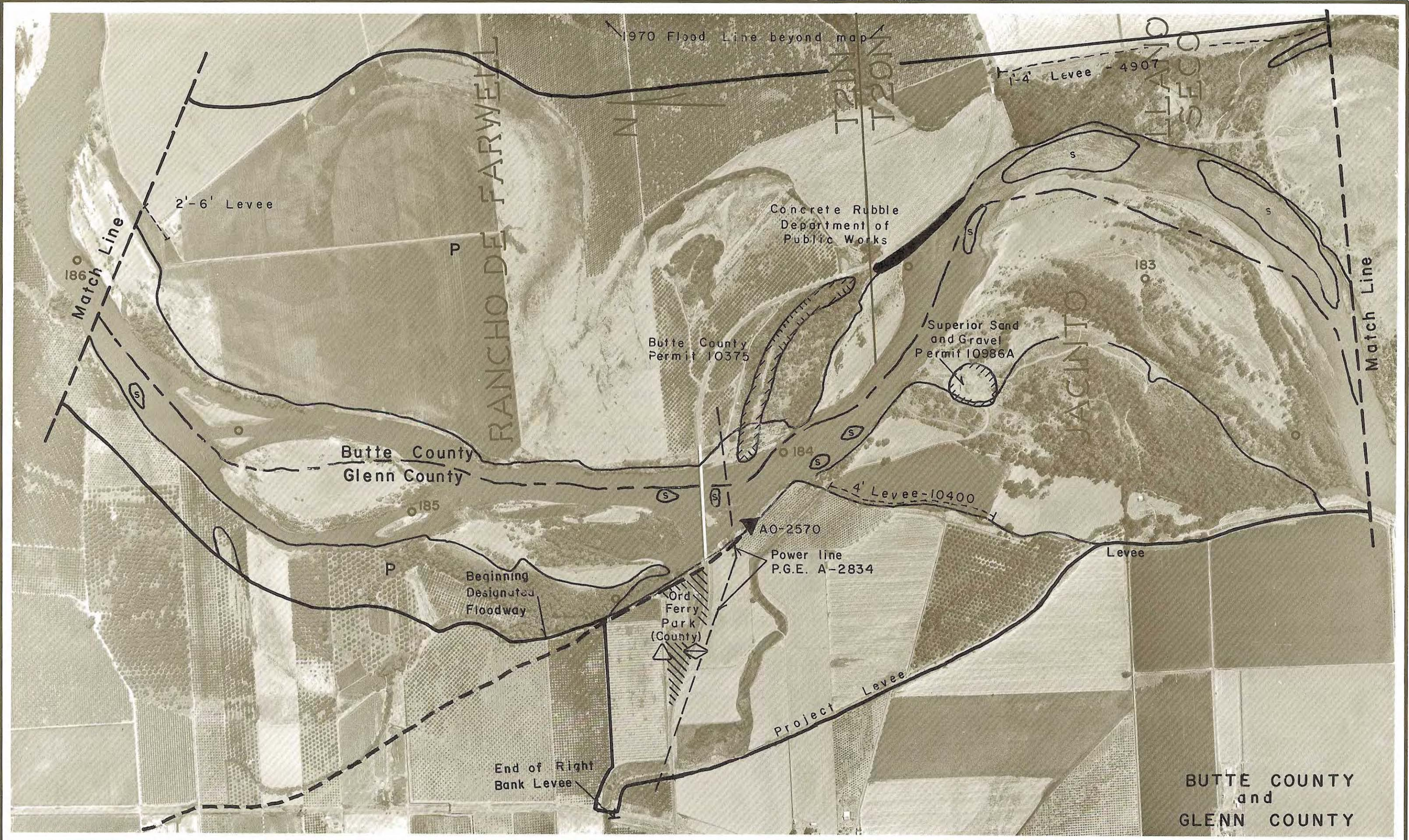
		Hectares	Acres
P Prime Agricultural Land	Butte County	374	924
	Glenn County	120	296

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-34

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols
	Hectares	Acres	Hectares	Acres		
AG	high terrace	66	162	16	40	H high High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0	
AD	high terrace	0	0	68	168	Deciduous orchard
	low terrace	0	0	0	0	
VI	high terrace	30	73	4	9	L low Low terrace lands generally inundated at only moderately high river flows.
	low terrace	4	10	0	0	
V2	high terrace	26	64	15	37	xxxxxx Riprap
	low terrace	15	37	8	20	
V3	high terrace	3	8	4	10	 Salmon spawning areas
	low terrace	8	21	15	36	
V4	high terrace	52	128	4	11	Comprised mainly, of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.
	low terrace	11	26	14	35	
Sub-total						
	high terrace	177	435	111	275	
	low terrace	38	94	37	91	
U		0	0	0	0	Urban or urban related
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.
Rc		0	0	0	0	Commercial recreation
W		79	196	43	106	Water surface
OW		0	0	0	0	Oxbow lakes, isolated from river
R		71	175	21	51	Gravel bars, rocks, sand
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks
Total		365	900	212	523	



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-37

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

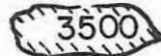


Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres
P Prime Agricultural Land	Butte County	155	382
	Glenn County	88	217

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|---|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-37

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County		Denominator Symbols
	Hectares	Acres	Hectares	Acres	
AG high terrace low terrace	71 0	175 0	0 0	0 0	H high High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	82 0	202 0	
VI high terrace low terrace	99 0	245 0	21 0	52 0	L low Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	19 6	46 14	9 6	22 15	
V3 high terrace low terrace	11 1	27 2	1 7	1 18	xxxxxx Riprap
V4 high terrace low terrace	54 5	134 12	3 16	8 39	
Sub-total					 Salmon spawning areas
high terrace	254	627	116	285	
low terrace	12	28	29	72	
U	0	0	0	0	Urban or urban related
PR	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.
Rc	0	0	0	0	Commercial recreation
W	40	100	34	83	Water surface
OW	1	3	0	0	Oxbow lakes, isolated from river
R	17	43	38	94	Gravel bars, rocks, sand
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks
Total	324	801	217	534	



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-38

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag


 Public Lands (Name of Owner)

		Hectares	Acres
P	Prime Agricultural Land		
	Butte County	258	638
	Glenn County	109	270

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-1-38

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Prime Agricultural
Lands

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A

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	0	0	196	484	General crops including grains, alfalfa, pasture, and row crops.	H	high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0	0	0				
AD	0	0	97	240	Deciduous orchard			
low terrace	0	0	0	0				
VI	57	140	6	16	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L	low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	13	32	13	32				
V2	15	37	10	24	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx		Riprap
low terrace	0	0	0	0				
V3	1	3	8	19	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.			Salmon spawning areas
low terrace	2	6	28	69				
V4	14	34	54	133	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.			
low terrace	18	44	29	71				
Sub-total								
high terrace	87	214	371	916				
low terrace	33	82	70	172				
U	0	0	0	0	Urban or urban related			
PR	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.			
Rc	0	0	0	0	Commercial recreation			
W	31	76	42	104	Water surface			
OW	1	2	1	3	Oxbow lakes, isolated from river			
R	9	23	42	103	Gravel bars, rocks, sand			
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks			
Total	161	397	526	1 298				



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-40

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

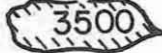


Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

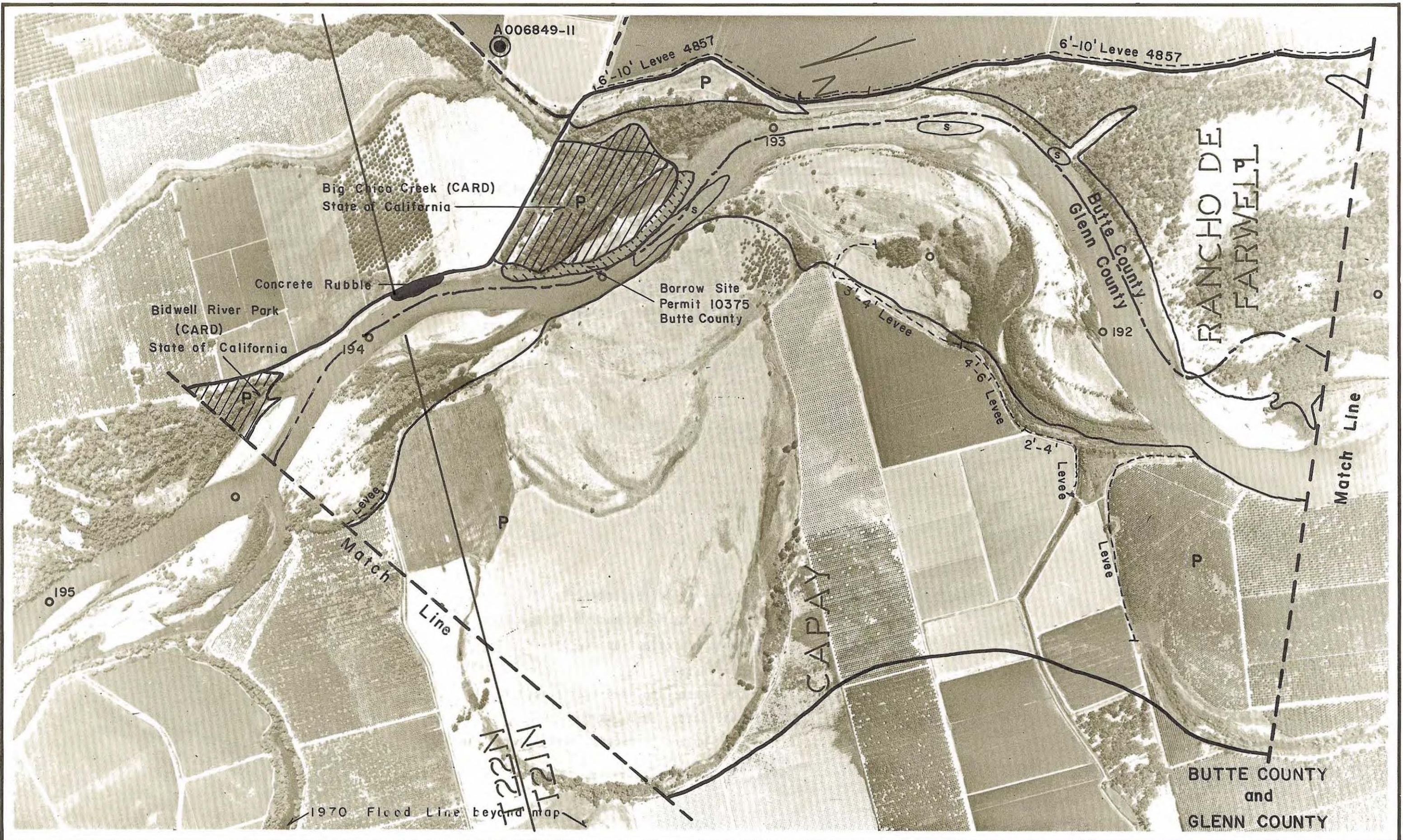
		Hectares	Acres
P Prime Agricultural Land	Butte County	114	282
	Glenn County	381	942

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-40

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols	
	Hectares	Acres	Hectares	Acres			
AG high terrace low terrace	76 0	188 0	67 0	165 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	10 0	25 0	107 0	265 0	Deciduous orchard		
VI high terrace low terrace	45 5	111 13	27 8	67 21	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	5 0	12 0	2 0	6 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx	Riprap
V3 high terrace low terrace	0 4	0 10	0 9	0 22	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	2 1	5 1	13 5	32 12	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
Sub-total							
high terrace	138	341	216	535			
low terrace	10	24	22	55			
U	0	0	0	0	Urban or urban related		
PR	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	0	0	Commercial recreation		
W	20	50	15	37	Water surface		
OW	1	2	1	3	Oxbow lakes, isolated from river		
R	11	27	12	30	Gravel bars, rocks, sand		
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total	180	444	266	660			








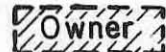
BUTTE COUNTY
and
GLENN COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-I-43</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Land Use and Riparian Vegetation</p>	<p>SHEET 20</p>
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line


-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres
P	Prime Agricultural Land	Butte County	143 354
		Glenn County	217 537

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-43

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	high terrace	5	12	33	82	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0			
AD	high terrace	52	128	25	62	Deciduous orchard	L low	Low terrace lands generally inundated at only moderately high river flows.
	low terrace	0	0	0	0			
VI	high terrace	14	35	8	20	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses	xxxxxx	Riprap
	low terrace	0	0	0	0			
V2	high terrace	0	0	5	13	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.		Salmon spawning areas
	low terrace	0	0	4	10			
V3	high terrace	9	22	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		
	low terrace	15	36	32	78			
V4	high terrace	2	5	14	34	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
	low terrace	12	30	16	40			
Sub-total								
	high terrace	82	202	85	211			
	low terrace	27	66	52	128			
U		0	0	0	0	Urban or urban related		
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc		3	8	0	0	Commercial recreation		
W		43	107	68	168	Water surface		
OW		1	1	2	4	Oxbow lakes, isolated from river		
R		7	18	28	68	Gravel bars, rocks, sand		
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total		163	402	235	579			






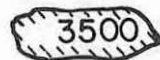
BUTTE COUNTY
and
GLENN COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-1-44</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Land Use and Riparian Vegetation</p>	<p>SHEET 21</p>
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Prime Agricultural Lands

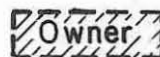
-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line



Commercial Gravel (Permit number or Owners name)



Snag














Public Lands (Name of Owner)

		Hectares	Acres
P Prime Agricultural Land	Butte County	84	207
	Glenn County	89	221

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-44

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	high terrace	98	242	1	1	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0			
AD	high terrace	38	95	43	107	Deciduous orchard		
	low terrace	0	0	0	0			
VI	high terrace	1	2	7	17	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
	low terrace	8	20	0	0			
V2	high terrace	30	75	26	65	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx	Riprap
	low terrace	0	0	0	0			
V3	high terrace	2	5	7	18	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
	low terrace	8	19	9	23			
V4	high terrace	9	23	4	11	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
	low terrace	1	2	0	0			
Sub-total								
	high terrace	178	442	88	219			
	low terrace	17	41	9	23			
U		0	0	0	0	Urban or urban related		
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc		0	0	0	0	Commercial recreation		
W		36	88	36	88	Water surface		
OW		1	3	0	0	Oxbow lakes, isolated from river		
R		11	28	14	34	Gravel bars, rocks, sand		
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks		
Total		243	602	147	364			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-46

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM




Land Use
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BUTTE COUNTY
 and
 GLENN COUNTY

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












		Hectares	Acres
P	Prime Agricultural Land		
	Butte County	173	427
	Glenn County	81	200

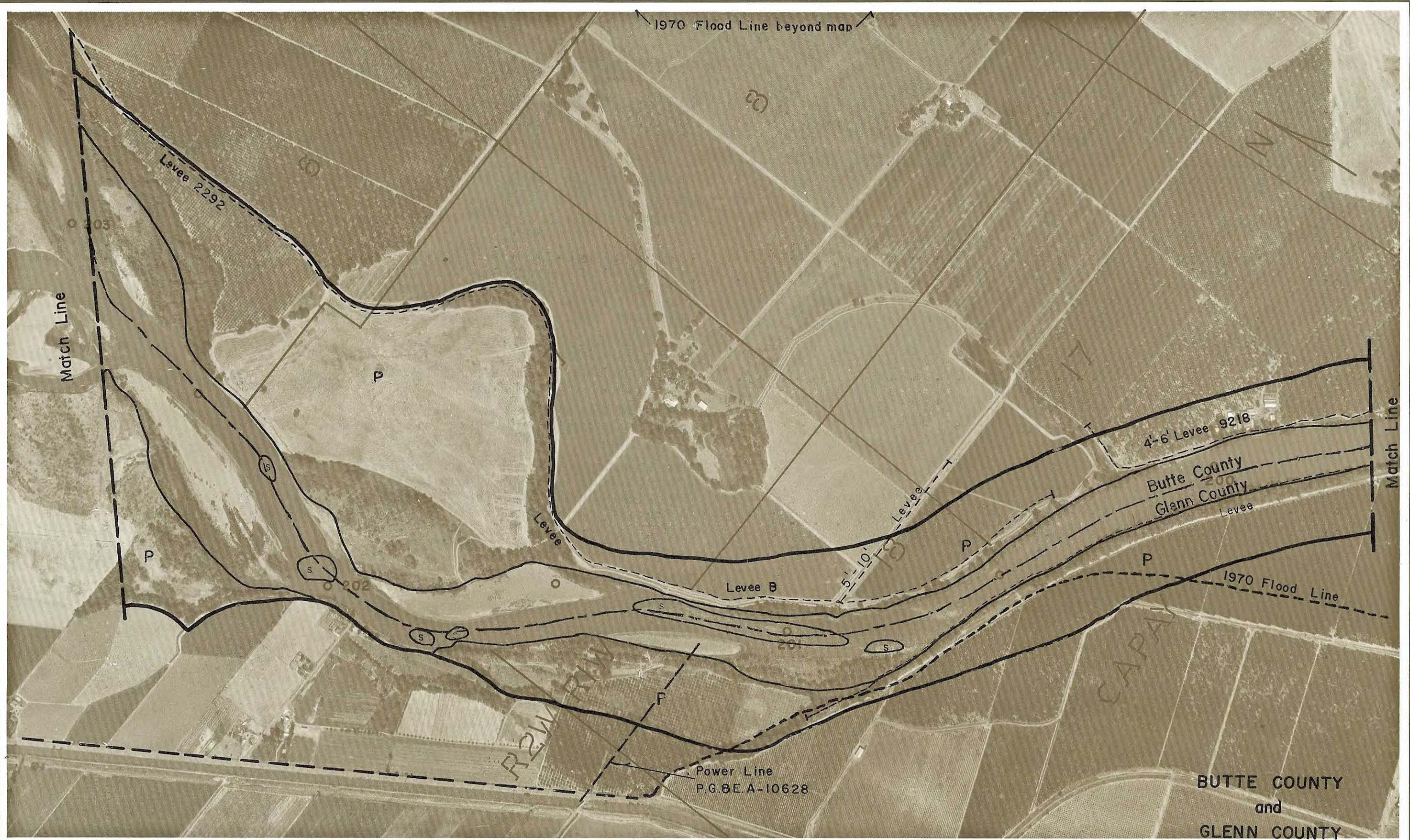
-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-46

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE

SACRAMENTO RIVER
COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Butte County		Glenn County		Tehema County		Denominator Symbols
	Hectares	Acres	Hectares	Acres	Hectares	Acres	
AG high terrace	0	0	51	127	2	5	General crops including grains, alfalfa, pasture, and row crops.
low terrace	0	0	0	0	0	0	
AD high terrace	105	259	4	11	0	0	Deciduous orchard
low terrace	0	0	0	0	0	0	
VI high terrace	5	13	34	85	6	14	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.
low terrace	0	0	1	2	0	0	
V2 high terrace	1	3	23	56	0	0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.
low terrace	8	19	5	12	0	0	
V3 high terrace	0	0	1	2	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.
low terrace	4	9	13	31	0	0	
V4 high terrace	6	16	65	160	0	0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.
low terrace	7	17	36	88	0	0	
Sub-total high terrace	117	291	178	441	8	19	
low terrace	19	45	55	133	0	0	
U	0	0	4	9	0	0	Urban or urban related.
PR	0	0	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.
Rc	0	0	0	0	0	0	Commercial recreation
W	8	20	38	93	6	16	Water surface
OW	19	48	5	13	0	0	Oxbow lakes, isolated from river.
R	4	11	25	62	4	9	Gravel bars, rocks, sand.
GH	0	0	0	0	0	0	Grass, upland hardwoods, mainly oak.
Total	167	415	305	751	18	44	

H high High terrace lands generally free from inundation except during exceptionally high river flows.

L low Low terrace lands generally inundated at only moderately high river flows.

xxxxx Riprap

 Salmon spawning areas








BUTTE COUNTY,
GLENN COUNTY,
and
TEHAMA COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-1-47</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Land Use and Riparian Vegetation</p>	<p>SHEET 23</p>
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres	
P	Prime Agricultural Land	Butte County	118	292
		Glenn County	154	380
		Tehama County	7	18

GAGING STATIONS

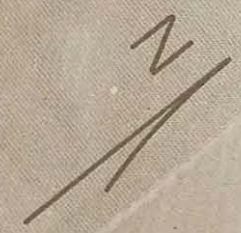
- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



1970 Flood Line beyond map




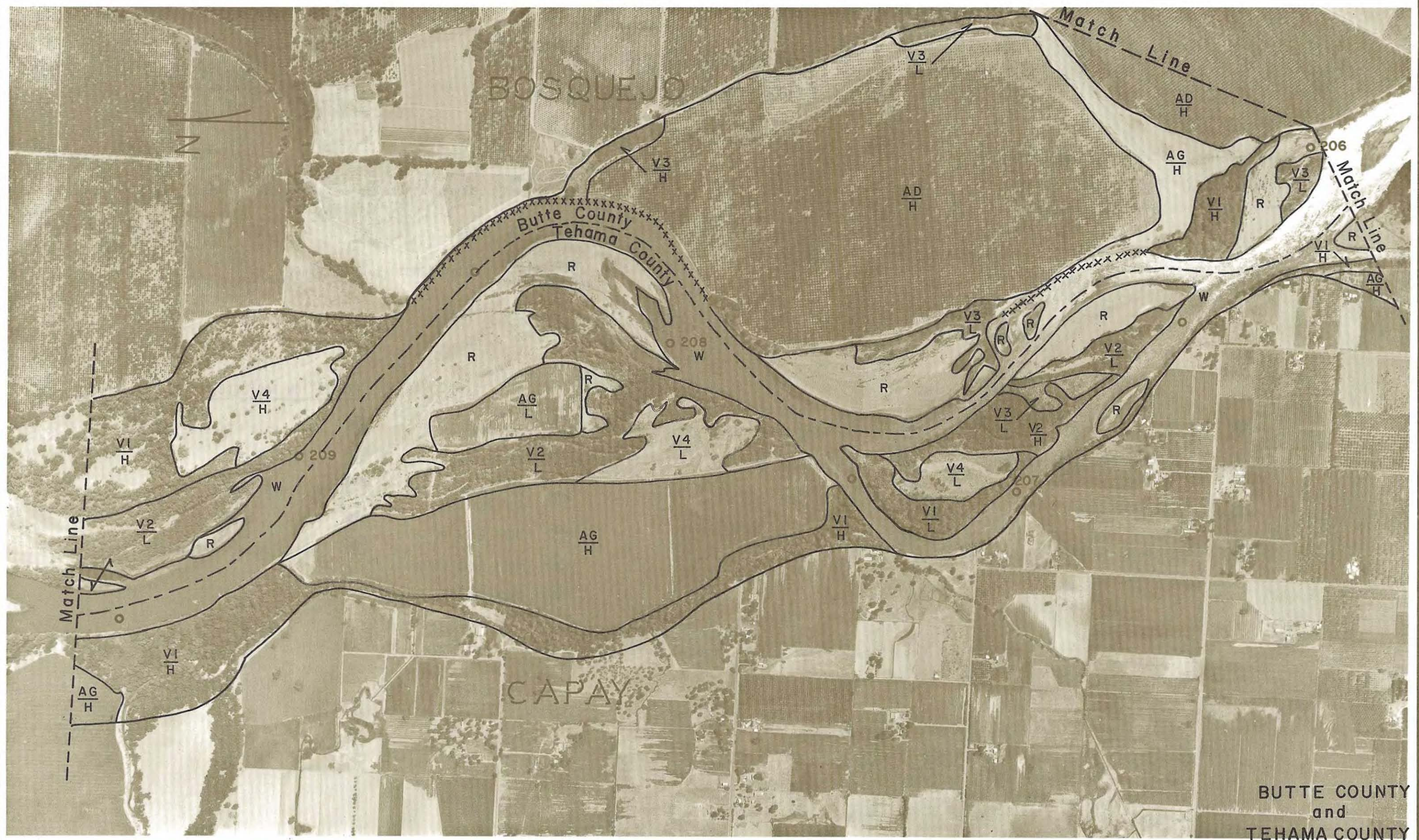
BUTTE COUNTY
GLENN COUNTY
and
TEHAMA COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-I-47</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Prime Agricultural Lands</p>	<p>SHEET 23 A</p>
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Land Use and Riparian Vegetation

Symbol	Butte County		Tehama County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	14	34	66	164	General crops including grains, alfalfa, pasture, and row crops.	H	high	High terrace lands generally free from inundation except during exceptionally high river flows.
	0	0	10	25				
AD	155	384	0	0	Deciduous orchard			
	0	0	0	0				
VI	33	81	37	91	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L	low	Low terrace lands generally inundated at only moderately high river flows.
	0	0	6	16				
V2	0	0	9	22	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx		Riprap
	15	38	36	89				
V3	3	7	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.			Salmon spawning areas
	10	25	2	5				
V4	13	31	0	0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.			
	0	0	14	35				
Sub-total								
high terrace	218	537	112	277				
low terrace	25	63	68	170				
U	0	0	0	0	Urban or urban related			
PR	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.			
Rc	0	0	0	0	Commercial recreation			
W	42	103	59	146	Water surface			
OW	0	0	0	0	Oxbow lakes, isolated from river			
R	20	50	44	109	Gravel bars, rocks, sand			
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks			
Total	305	753	283	702				



BUTTE COUNTY
and
TEHAMA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-51

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Land Use
and
Riparian Vegetation

SHEET
24

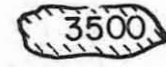
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Prime Agricultural Lands


-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

	Hectares	Acres
Butte County	225	557
Tehama County	99	245









P Prime Agricultural Land

 Commercial Gravel (Permit number or Owners name)



 Snag

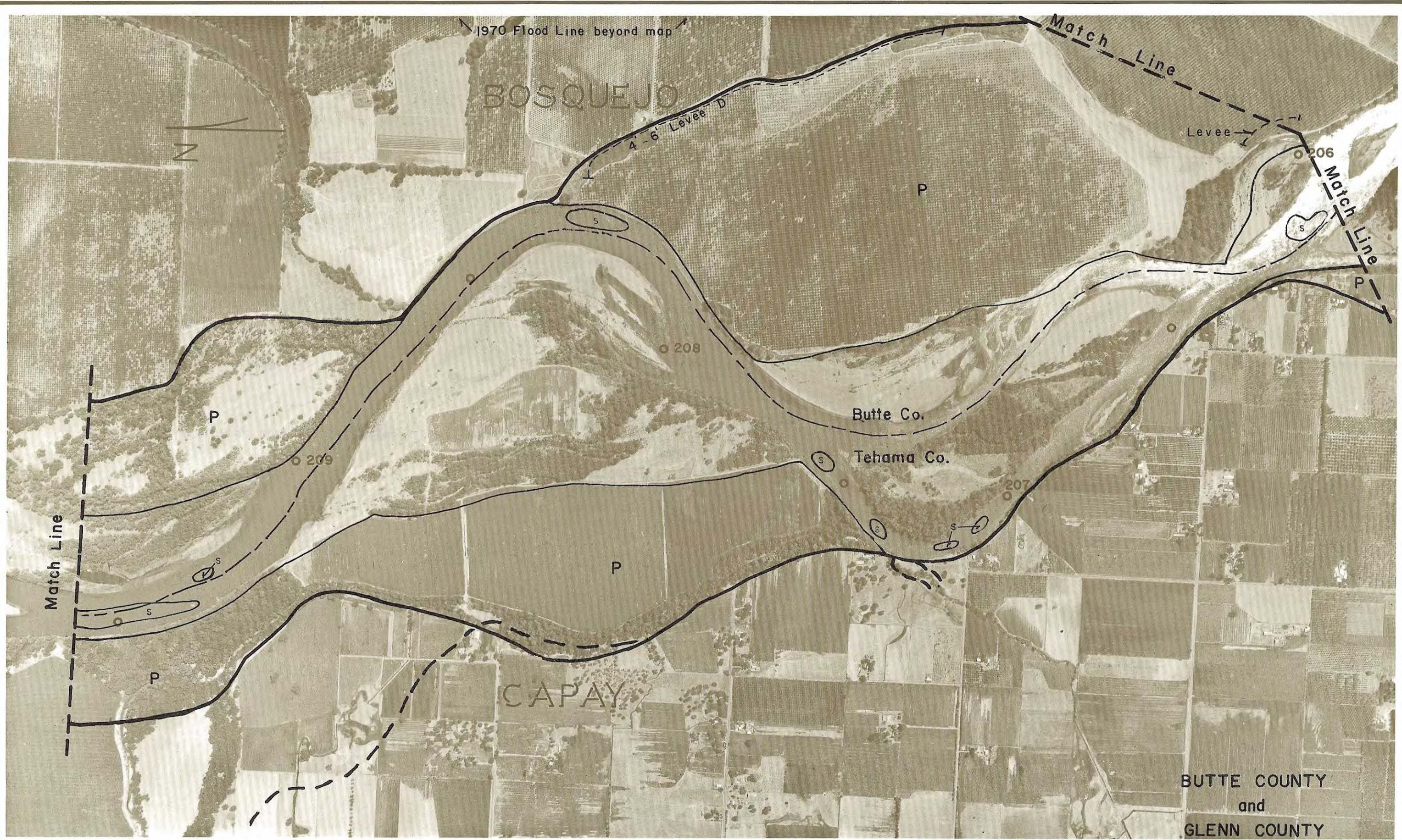
 Public Lands (Name of Owner)

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste, Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-51

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Prime Agricultural
Lands

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Land Use and Riparian Vegetation

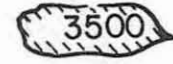
Symbol	Butte County		Tehama County		Description	Denominator Symbols		
	Hectares	Acres	Hectares	Acres		Symbol	Description	
AG	1	2	35	86	General crops including grains, alfalfa, pasture, and row crops.	H	high	High terrace lands generally free from inundation except during exceptionally high river flows.
	0	0	0	0				
AD	29	72	91	225	Deciduous orchard			
	0	0	0	0				
VI	29	71	34	85	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses	L	low	Low terrace lands generally inundated at only moderately high river flows.
	11	27	9	23				
V2	3	8	6	15	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx		Riprap
	4	10	0	0				
V3	0	0	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.			Salmon spawning areas
	7	17	5	12				
V4	6	16	128	317	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.			
	4	11	8	19				
Sub-total								
high terrace	68	169	294	728				
low terrace	26	65	22	54				
U	0	0	0	0	Urban or urban related			
PR	0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.			
Rc	0	0	0	0	Commercial recreation			
W	36	90	66	164	Water surface			
OW	0	0	0	0	Oxbow lakes, isolated from river			
R	25	62	34	84	Gravel bars, rocks, sand			
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks			
Total	155	386	416	1 030				

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









		Hectares	Acres
	Butte County	69	171
P	Prime Agricultural Land		
	Tehama County	308	760

 Commercial Gravel (Permit number or Owners name)












 Snag

 Public Lands (Name of Owner)

GAGING STATIONS

- | | |
|--|---|
|  Stream Gage |  Climatological Station |
|  Stream Gage and Surface Water Quality Sampling Station |  Sedimentation Sampling Station |
|  Surface Water Quality Sampling Station |  Waste Discharge Point
(Name of Facility) |
|  Ground Water Sampling Station |  Sanitary Disposal Plant
(Name of Facility) |

RECREATION FACILITIES

- | | |
|--|--|
|  Camping |  Cafe, Bait, Tackle, and Gas |
|  Picnicking |  Cafe |
|  Boat Ramp, Docks, and Rentals |  Bait and Tackle |
|  Boat Dock or Slip |  Gas |
|  Boat Ramp or Hoist |  Archeological-Historical Sites |
|  Boat Rentals | |



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-53

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

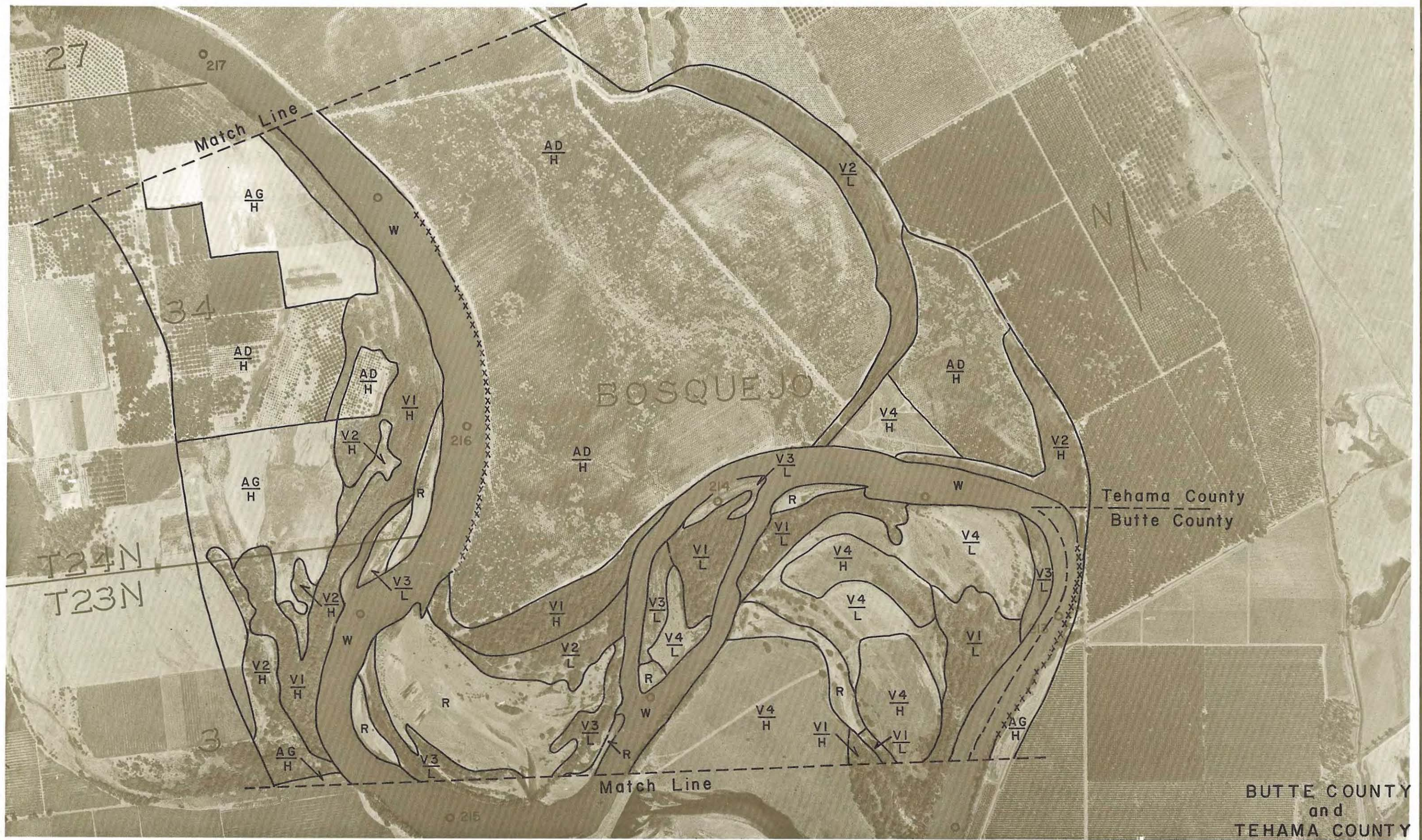
Prime Agricultural
Lands

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Land Use and Riparian Vegetation

Symbol	Butte County		Tehama County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	high terrace	4	9	52	128	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
	low terrace	0	0	0	0			
AD	high terrace	0	0	284	701	Deciduous orchard		
	low terrace	0	0	0	0			
VI	high terrace	0	0	44	108	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
	low terrace	0	0	22	55			
V2	high terrace	1	2	21	51	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx	Riprap
	low terrace	0	0	24	60			
V3	high terrace	0	0	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
	low terrace	0	0	17	43			
V4	high terrace	0	0	48	118	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.		
	low terrace	0	0	29	71			
Sub-total								
	high terrace	5	11	449	1 106			
	low terrace	0	0	92	229			
U		0	0	0	0	Urban or urban related		
PR		0	0	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc		0	0	0	0	Commercial recreation		
W		5	13	75	186	Water surface		
OW		0	0	0	0	Oxbow lakes, isolated from river		
R		0	0	37	92	Gravel bars, rocks, sand		
GH		0	0	0	0	Grass, upland hardwoods, mainly oaks		



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-54

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE

SACRAMENTO RIVER
 COLUSA TO KESWICK DAM




Land Use
 and
 Riparian Vegetation

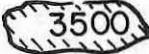

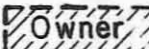
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BUTTE COUNTY
 and
 TEHAMA COUNTY

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres
P	Prime Agricultural Land		
	Butte County	0	0
	Tehama County	439	1 084

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-54

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
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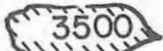


Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace	4	10	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0			
AD high terrace	195	483	Deciduous orchard		
low terrace	0	0			
VI high terrace	85	209	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	0	0			
V2 high terrace	23	56	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
low terrace	2	5			
V3 high terrace	3	8	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	2	5			
V4 high terrace	36	89	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
low terrace	0	0			
Sub-total					
high terrace	346	855			
low terrace	4	10			
U	0	0	Urban or urban related		
PR	54	134	Formal parks, e.g. Woodson Bridge State Park.		
Rc	6	15	Commercial recreation		
W	84	207	Water surface		
DW	0	0	Oxbow lakes, isolated from river		
R	12	30	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	506	1 251			

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line










-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of owner)

P Prime Agricultural Land Tehama County Hectares 373 Acres 921

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-57

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	75 0	186 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	368 0	909 0	Deciduous orchard		
VI high terrace low terrace	64 38	157 94	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	79 17	196 41	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	4 8	9 19	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	25 58	61 143	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	615 121	1 518 297			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	84	208	Water surface		
OW	3	7	Oxbow lakes, isolated from river		
R	23	57	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	846	2 087			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-59

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line






-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

P	Prime Agricultural Land	Tehama County	Hectares	Acres
			605	1 496

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-59

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace	77	190	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0			
AD high terrace	134	332	Deciduous orchard		
low terrace	0	0			
VI high terrace	121	300	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	40	100			
V2 high terrace	15	38	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
low terrace	19	48			
V3 high terrace	22	54	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	8	21			
V4 high terrace	69	170	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
low terrace	60	148			
Sub-total					
high terrace	438	1 084			
low terrace	127	317			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	89	221	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	106	262	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	760	1 884			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-61

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm




STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE



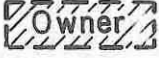
SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
 and
 Riparian Vegetation

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Index to Sheet 29A Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line










-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

		Hectares	Acres
P	Prime Agricultural Land Tehama County	419	1 036

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-61

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	153 0	378 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	61 0	150 0	Deciduous orchard		
VI high terrace low terrace	65 57	160 141	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	2 11	5 26	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	1 2	2 4	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	1 33	3 81	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	283 103	698 252			
U	0	0	Urban or urban related		
PR	6	14	Formal parks, e.g. Woodson Bridge State Park.		
Rc	9	23	Commercial recreation		
W	78	192	Water surface		
OW	1	1	Oxbow lakes, isolated from river		
R	40	98	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	520	1 278			






TEHAMA COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-I-63</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Land Use and Riparian Vegetation</p>	<p>SHEET 30</p>
--	--	---	---	---	---------------------


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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag

 Public Lands (Name of Owner)












P Prime Agricultural Land Tehama County

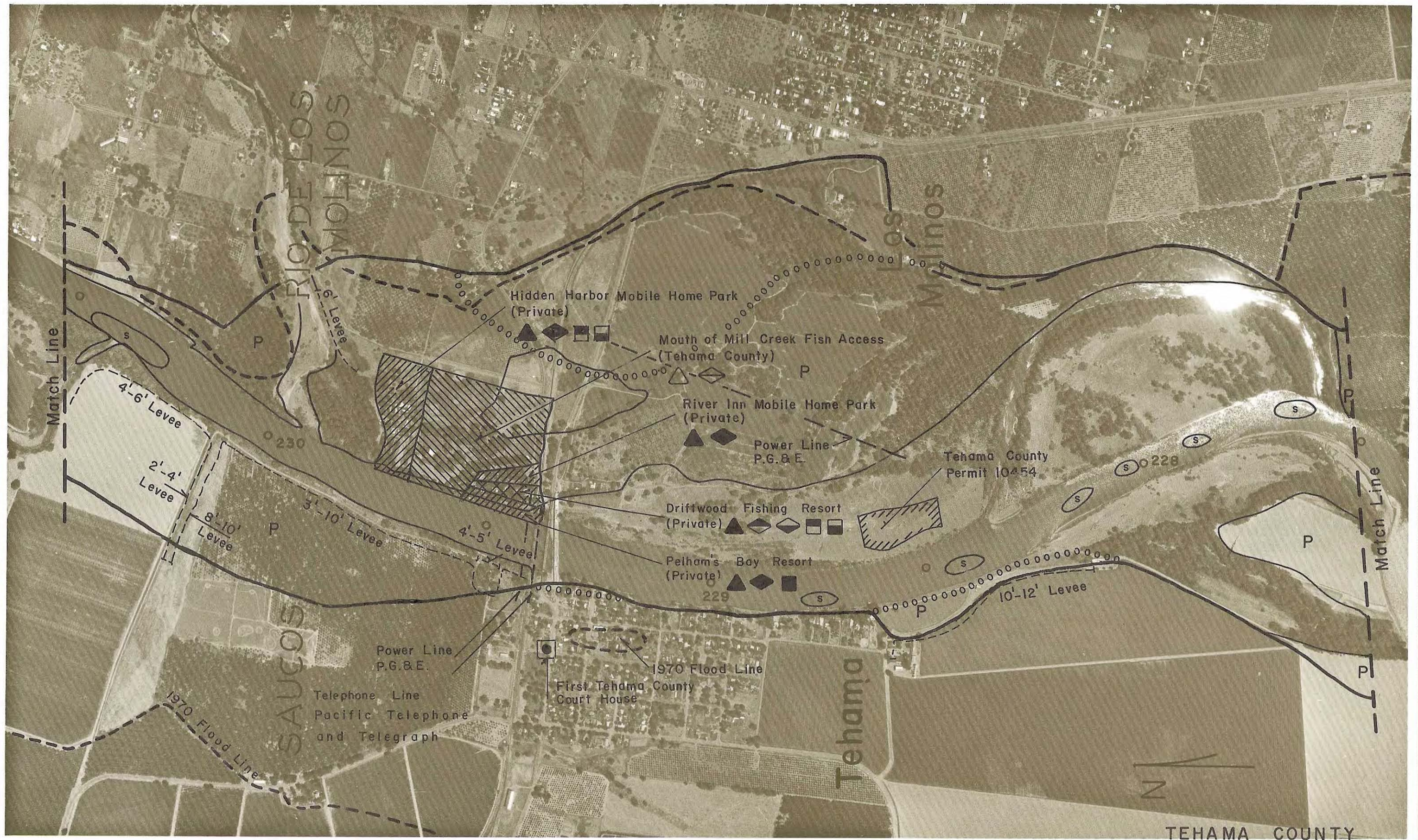
Hectares	Acres
280	691

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-63

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

TEHAMA COUNTY
 Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	81 0	200 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	4 0	10 0	Deciduous orchard		
VI high terrace low terrace	95 24	234 59	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	23 5	56 13	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	15 2	38 5	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	53 12	132 29	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	271 43	670 106			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	84	207	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	32	80	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	430	1 063			


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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

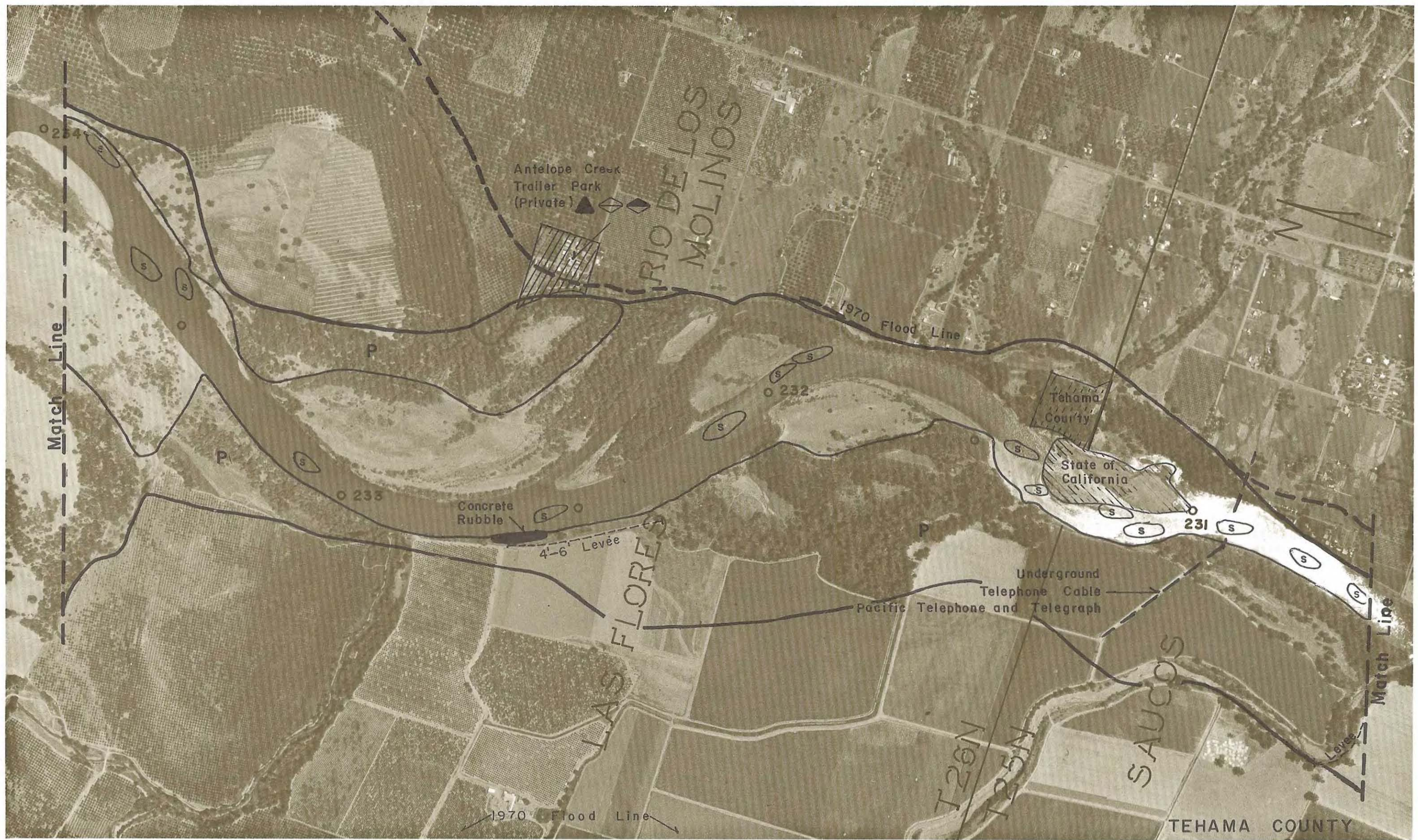
P	Prime Agricultural Land	Tehama County	Hectares	Acres
			213	527

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-65

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	75 0	186 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	168 41	414 101	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	25 27	61 67	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	1 14	3 35	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	71 51	175 127	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	340 133	839 330			
U	2	6	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	98	242	Water surface		
OW	2	4	Oxbow lakes, isolated from river		
R	63	155	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	638	1 576			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-67

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

P	Prime Agricultural Land	Tehama County	Hectares 266	Acres 657
---	-------------------------	---------------	-----------------	--------------

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-67

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	12 0	29 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	19 41	47 101	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 21	0 51	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 9	0 23	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	0 66	0 163	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	31 137	76 338			
U	0	0	Urban or urban related		
P R	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	1	1	Commercial recreation		
W	84	208	Water surface		
OW	4	11	Oxbow lakes, isolated from river		
R	13	31	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	270	665			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-71

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
 and
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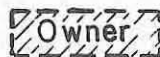
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag











 Public Lands (Name of Owner)

P	Prime Agricultural Land	Tehama County	Hectares	Acres
			18	44

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-71

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
 Lands

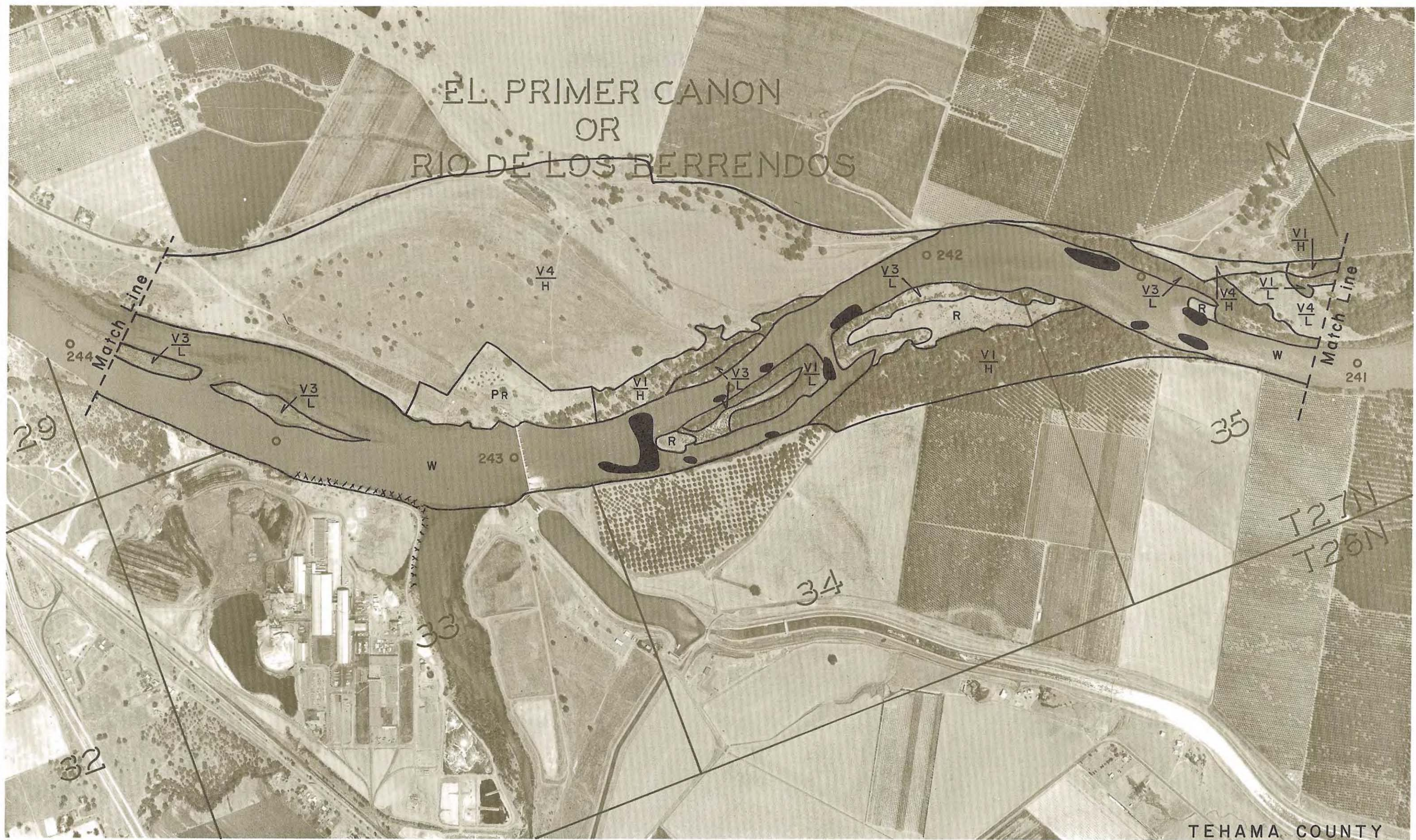
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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	28 6	68 14	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory com- prised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low xxxxx	Low terrace lands generally inundated at only moderately high river flows. Riprap
V2 high terrace low terrace	0 0	0 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.		Salmon spawning areas
V3 high terrace low terrace	0 19	0 48	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		
V4 high terrace low terrace	126 4	312 10	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	154 29	380 72			
U	0	0	Urban or urban related		
PR	10	25	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	97	240	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	7	17	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	297	734			

EL PRIMER CANON
OR
RIO DE LOS BERRENDOS



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-1-73

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Land Use
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag

 Public Lands (Name of Owner)






P Prime Agricultural Land Tehama County

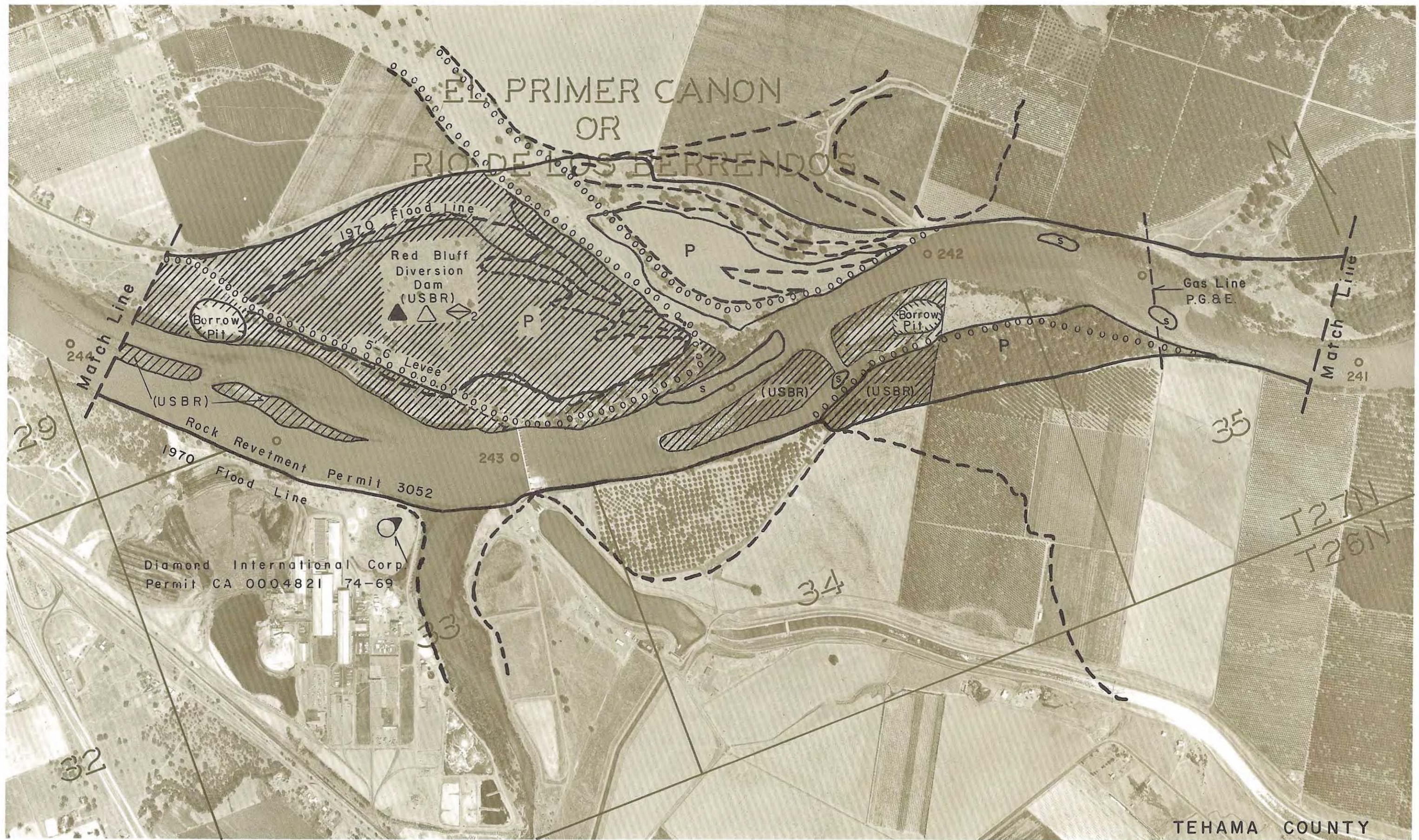
Hectares	Acres
93	231

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|---|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-73

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

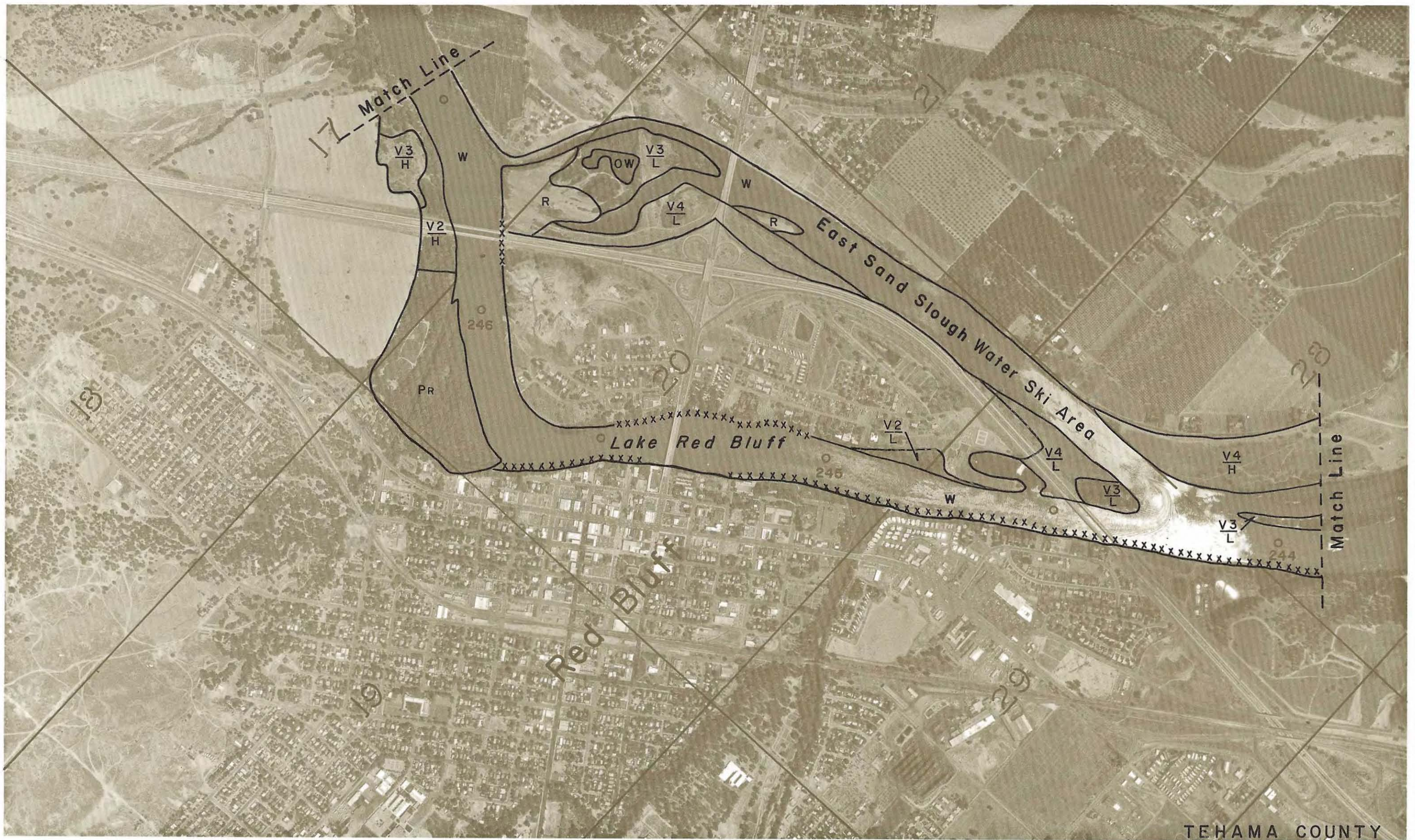
Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	0 0	0 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	5 0	13 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	3 10	7 24	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	11 16	28 39	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	19 26	48 63			
U	0	0	Urban or urban related		
PR	16	39	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	102	251	Water surface		
OW	1	3	Oxbow lakes, isolated from river		
R	6	16	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	170	420			









TEHAMA COUNTY

<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-1-77</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Land Use and Riparian Vegetation</p>	<p>SHEET 35</p>
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line






-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

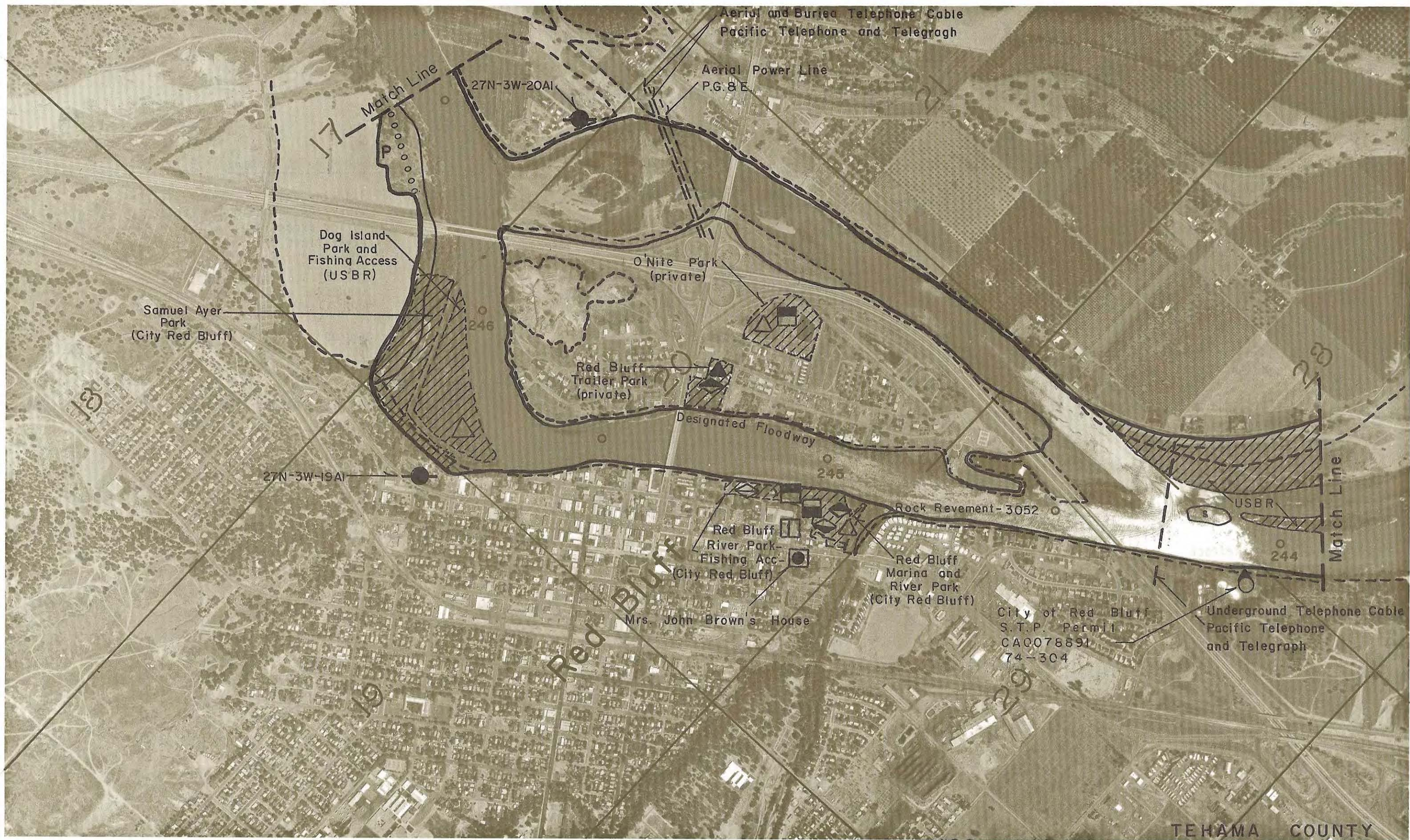
		Hectares	Acres
P	Prime Agricultural Land Tehama County	7	17

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-77

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

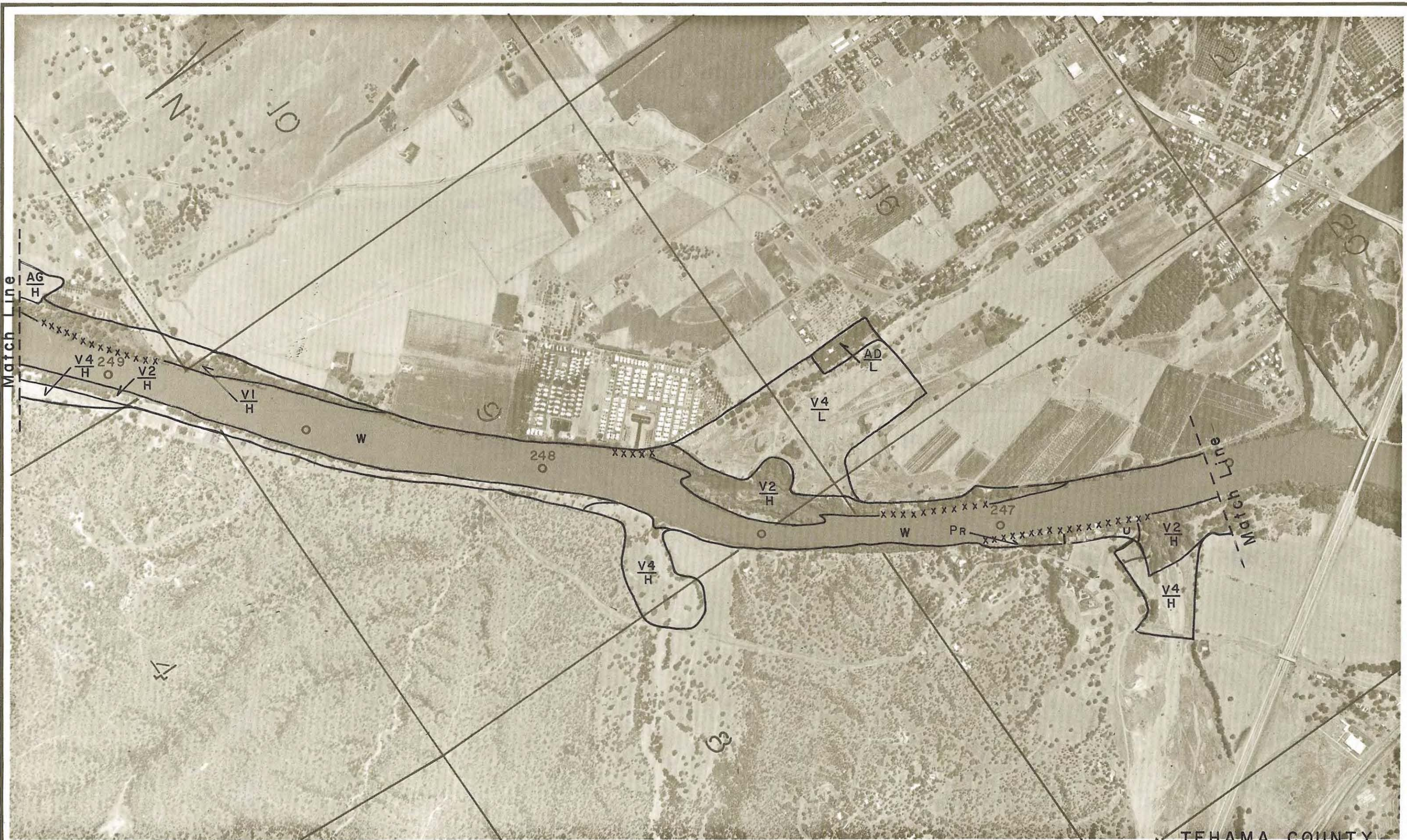
Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	1 2	3 5	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	7 0	18 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low xxxxx	Low terrace lands generally inundated at only moderately high river flows. Riprap
V2 high terrace low terrace	22 0	55 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.		Salmon spawning areas
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		
V4 high terrace low terrace	13 21	32 51	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	43 23	108 56			
U	1	3	Urban or urban related		
PR	1	2	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	64	159	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	0	0	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	132	328			



TEHAMA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-78

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
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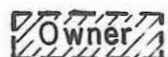
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag

 Public Lands (Name of Owner)












P Prime Agricultural Land Tehama County

Hectares	Acres
7	18

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-78

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	15 0	36 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	6 0	14 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	8 0	19 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 3	0 8	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	13 0	31 0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	42 3	100 8			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	71	176	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	8	19	Gravel bars, rocks, sand		
GH	372	918	Grass, upland hardwoods, mainly oak		
Total	496	1 221			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-80

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owner's name)

 Snag












 Public Lands (Name of owner)

P	Prime Agricultural Land	Tehama County	Hectares	Acres
			24	60

GAGING STATIONS

- | | |
|--|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-80

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	13 0	33 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 21	0 51	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	0 35	0 87	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	13 56	33 138			
U	0	0	Urban or urban related		
P R	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	53	131	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	8	19	Gravel bars, rocks, sand		
GH	93	229	Grass, upland hardwoods, mainly oak		
Total	223	550			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-84

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM




Land Use
 and
 Riparian Vegetation

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Prime Agricultural Lands









-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)












P Prime Agricultural Land Tehama County

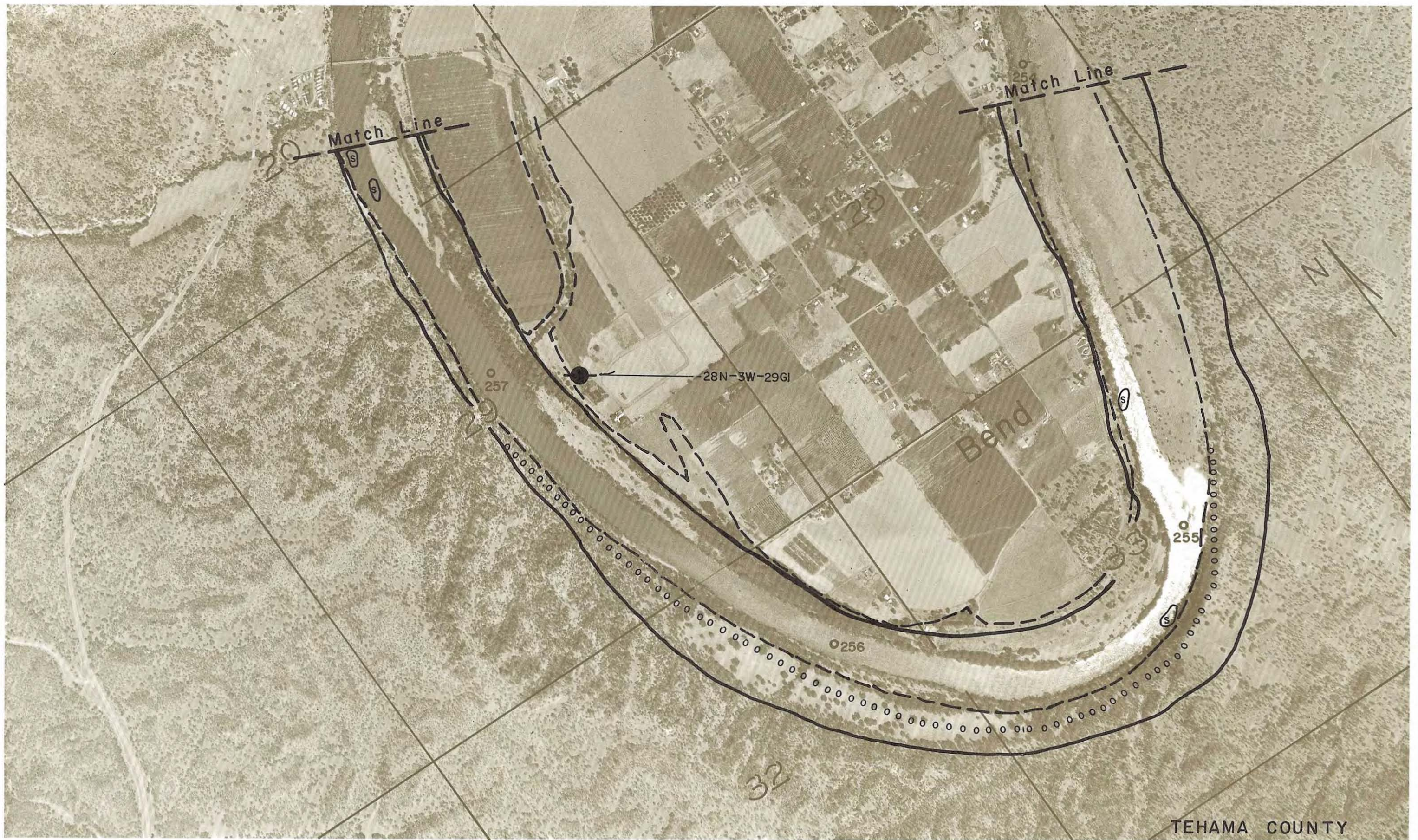
Hectares	Acres
0	0

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-84

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

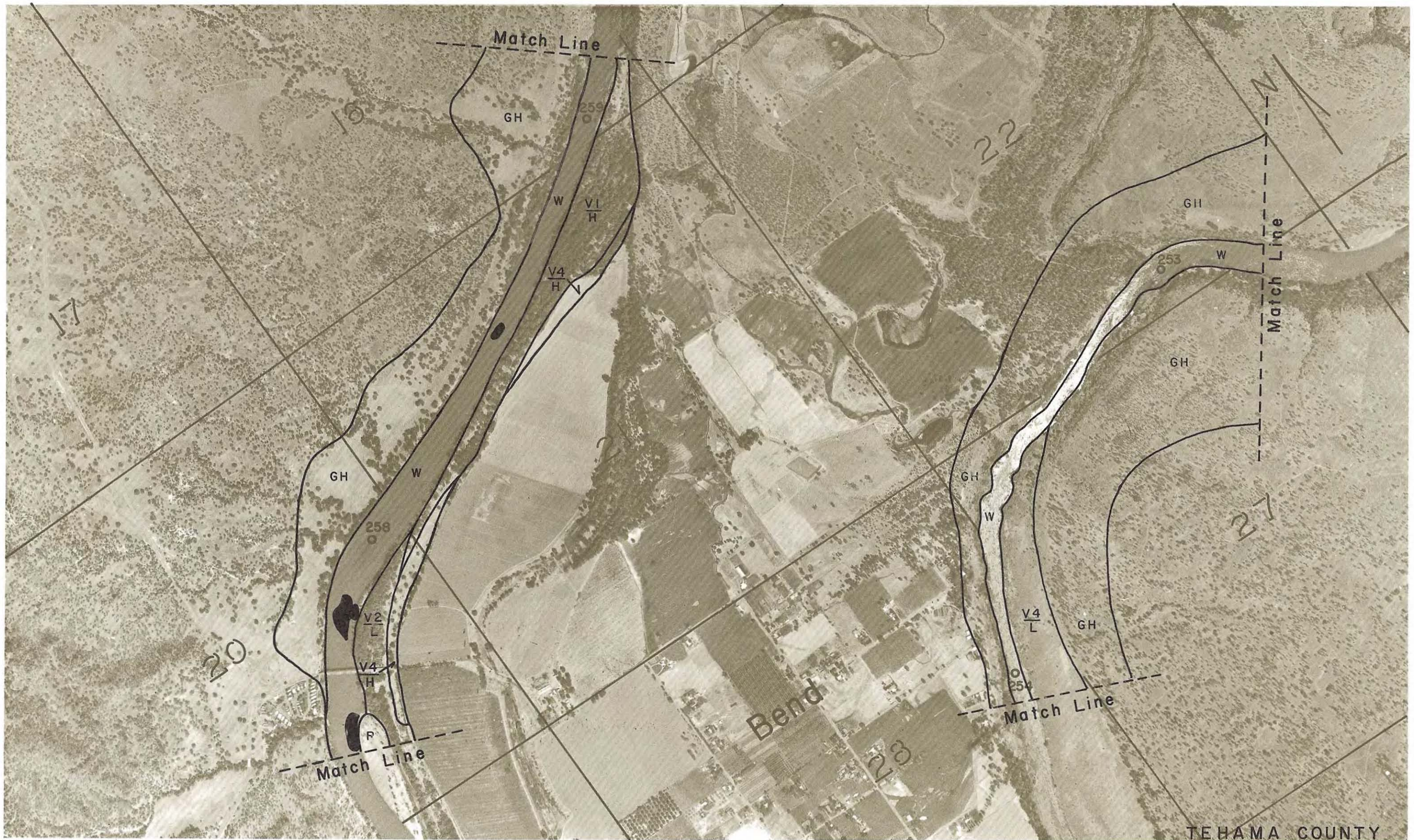
Prime Agricultural
 Lands

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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	19 0	46 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 6	0 15	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	5 11	13 27	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	24 17	59 42			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	41	101	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	1	3	Gravel bars, rocks, sand		
GH	142	350	Grass, upland hardwoods, mainly oak		
Total	225	555			



TEHAMA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-85

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
COLUSA TO KESWICK DAM

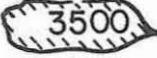
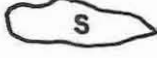

Land Use
and
Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

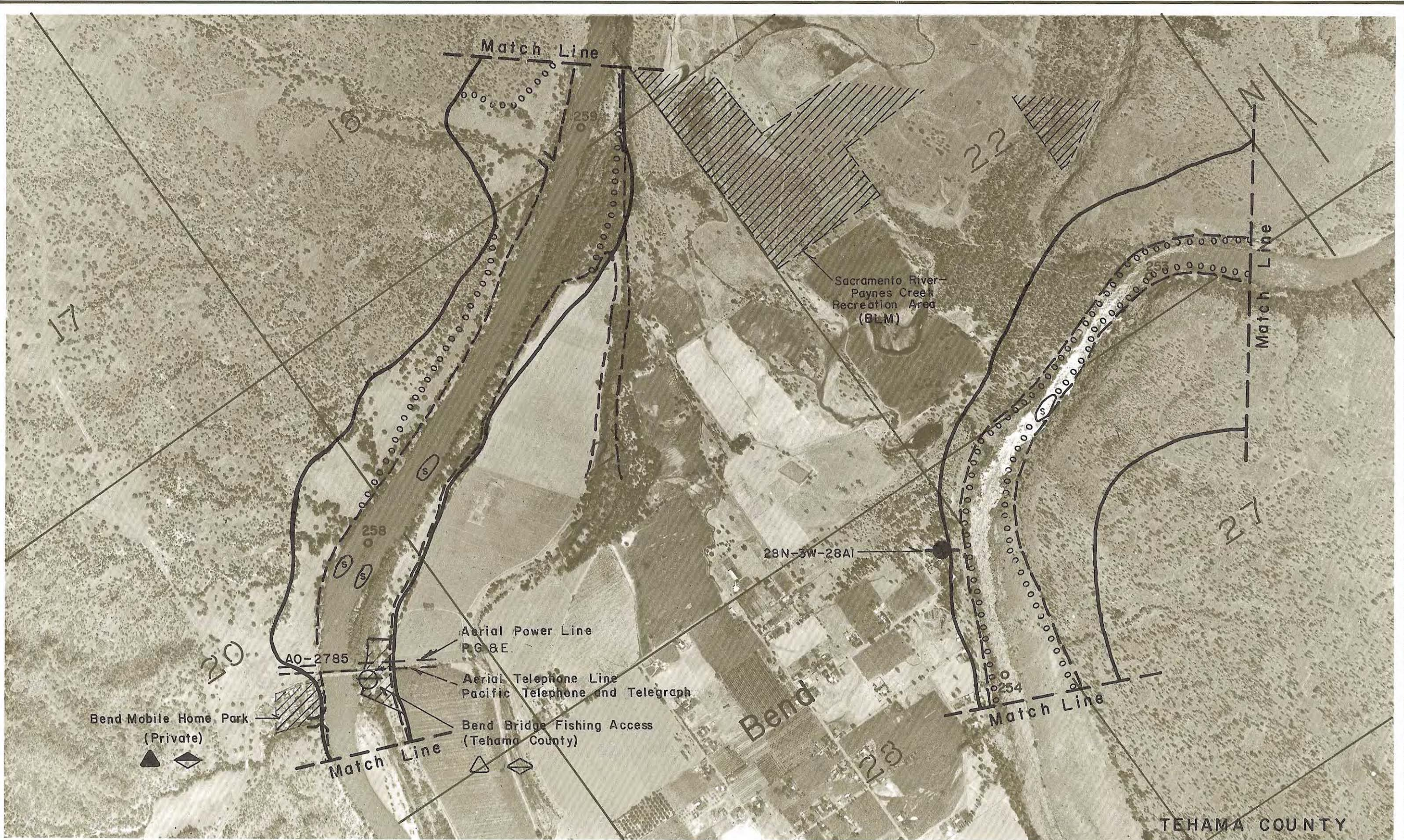
		Hectares	Acres
P	Prime Agricultural Land Tehama County	0	0

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-85

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
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SACRAMENTO RIVER
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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	4 0	10 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	1 0	3 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	5 4	12 10	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 11	0 27	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	0 10	0 25	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	10 25	25 62			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	37	92	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	0	0	Gravel bars, rocks, sand		
GH	178	440	Grass, upland hardwoods, mainly oak		
Total	250	619			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-86

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
 and
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)









 Snag

 Public Lands (Name of Owner)










P Prime Agricultural Land Tehama County

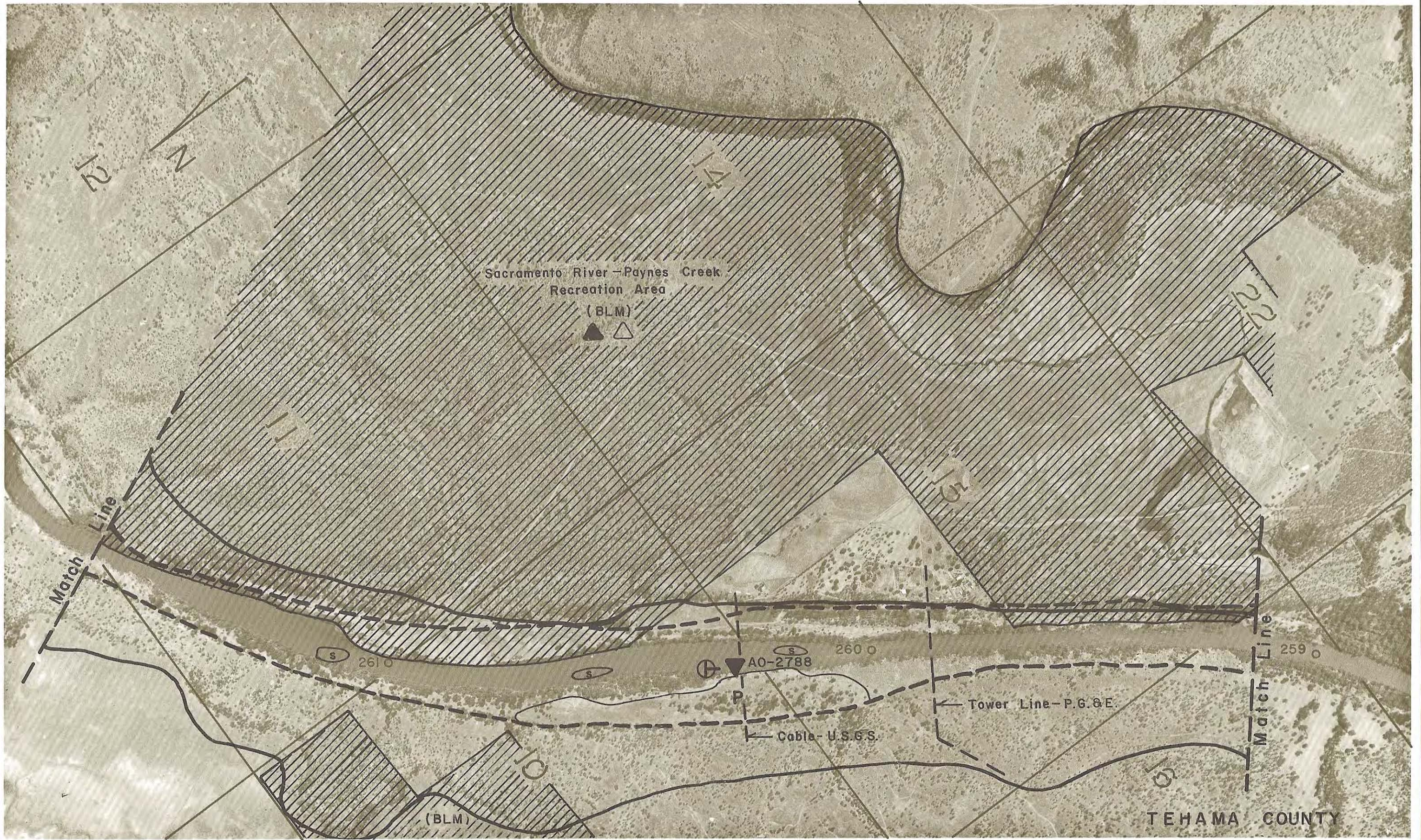
Hectares	Acres
12	30

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-86

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace	4	11	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0			
AD high terrace	0	0	Deciduous orchard		
low terrace	0	0			
VI high terrace	0	0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	0	0			
V2 high terrace	2	6	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
low terrace	1	3			
V3 high terrace	4	11	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	0	0			
V4 high terrace	7	17	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
low terrace	0	0			
Sub-total					
high terrace	17	45			
low terrace	1	3			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	46	113	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	5	13	Gravel bars, rocks, sand		
GH	282	696	Grass, upland hardwoods, mainly oak		
Total	351	870			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-87

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
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Land Use
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)

P	Prime Agricultural Land Tehama County	Hectares 7	Acres 18
---	---------------------------------------	---------------	-------------

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-87

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

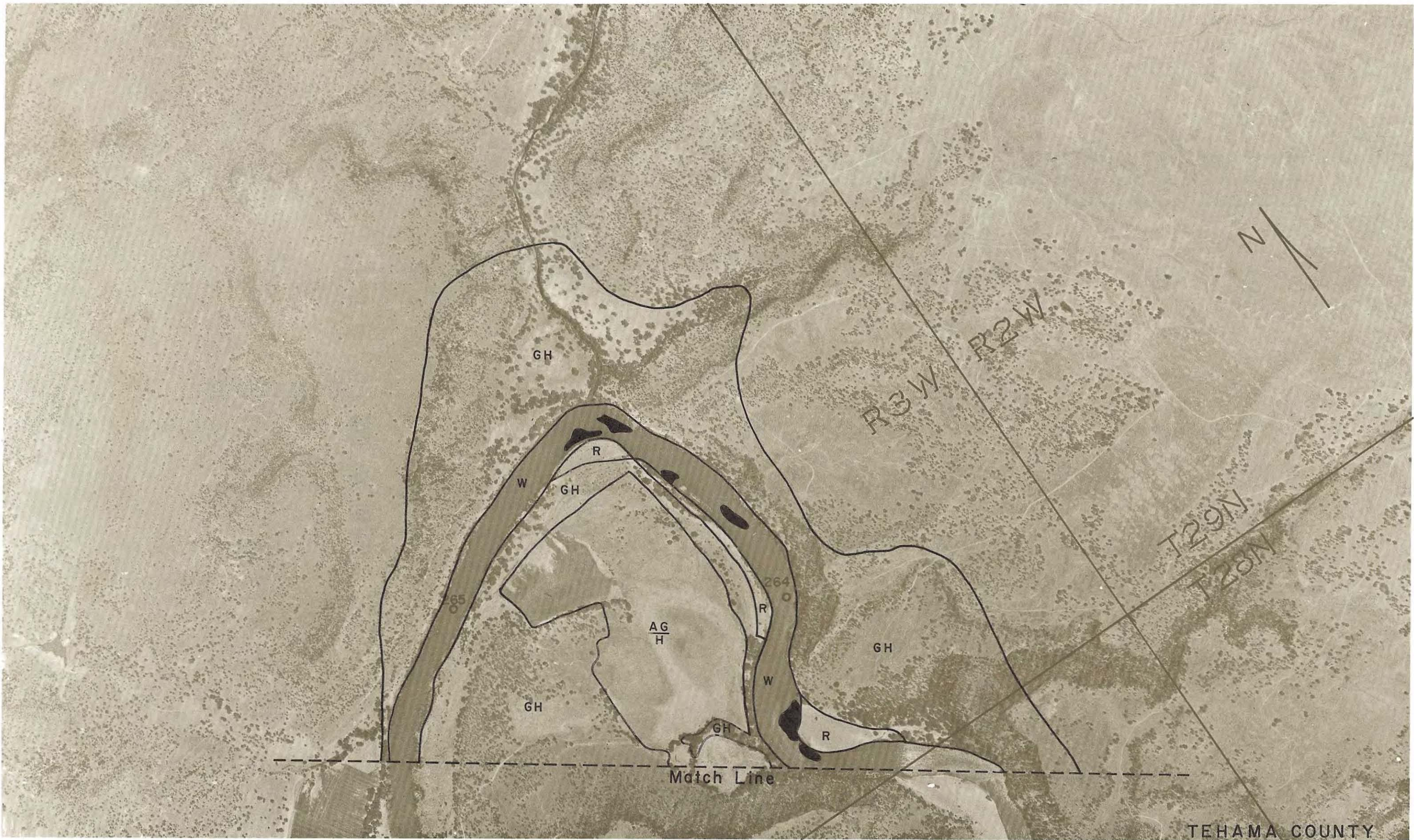
Prime Agricultural
 Lands

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 A

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Land Use and Riparian Vegetation

<u>Symbol</u>	Tehama County			<u>Denominator Symbols</u>	
	Hectares	Acres			
AG high terrace	44	109	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0			
AD high terrace	0	0	Deciduous orchard		
low terrace	0	0			
VI high terrace	0	0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	0	0			
V2 high terrace	0	0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
low terrace	0	0			
V3 high terrace	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	0	0			
V4 high terrace	0	0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
low terrace	0	0			
Sub-total					
high terrace	44	109			
low terrace	0	0			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	36	90	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	6	15	Gravel bars, rocks, sand		
GH	174	429	Grass, upland hardwoods, mainly oak		
Total	260	643			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-88

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
 and
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag











 Public Lands (Name of owner)

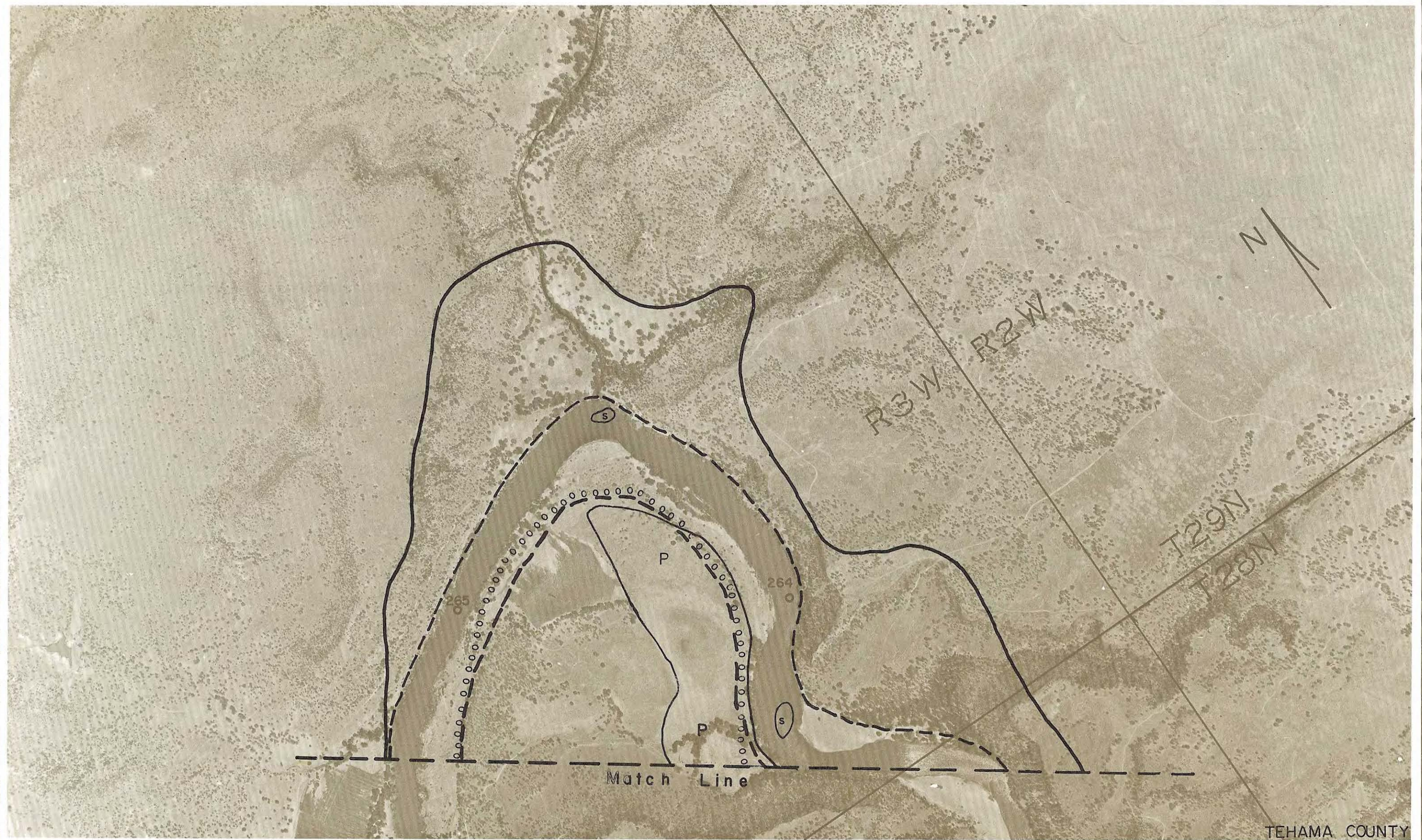
P	Prime Agricultural Land	Tehama County	Hectares	Acres
			26	64

GAGING STATIONS

- | | |
|---|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-88

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace	1	3	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
low terrace	0	0			
AD high terrace	0	0	Deciduous orchard		
low terrace	0	0			
VI high terrace	25	61	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
low terrace	10	24			
V2 high terrace	5	12	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
low terrace	1	3			
V3 high terrace	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
low terrace	13	33			
V4 high terrace	34	83	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
low terrace	1	2			
Sub-total					
high terrace	65	159			
low terrace	25	62			
U	0	0	Urban or urban related		
PR	15	36	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	49	121	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	1	2	Gravel bars, rocks, sand		
GH	3	8	Grass, upland hardwoods, mainly oak		
Total	158	388			



TEHAMA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-91

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
COLUSA TO KESWICK DAM

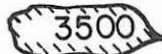

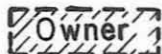
Land Use
and
Riparian Vegetation

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)












P Prime Agricultural Land Tehama County

Hectares	Acres
0	0

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES


- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-I-91</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Prime Agricultural Lands</p>	<p>SHEET 43 A</p>
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Land Use and Riparian Vegetation

Symbol	Tehama County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	1 0	3 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	8 12	19 29	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low xxxxx	Low terrace lands generally inundated at only moderately high river flows. Riprap
V2 high terrace low terrace	0 28	0 69	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.		Salmon spawning areas
V3 high terrace low terrace	0 11	0 26	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		
V4 high terrace low terrace	0 57	0 140	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	9 108	22 264			
U	0	0	Urban or urban related		
P R	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	47	115	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	45	111	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	209	512			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-92

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm




STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
 and
 Riparian Vegetation


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-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag








 Public Lands (Name of Owner)

P	Prime Agricultural Land	Tehama County	Hectares 11	Acres 27
---	-------------------------	---------------	----------------	-------------

GAGING STATIONS

- | | |
|---|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-92

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
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Land Use and Riparian Vegetation

Symbol	Shasta County		Tehama County			Denominator Symbols		
	Hectares	Acres	Hectares	Acres				
AG	0	0	5	13	General crops including grains, alfalfa, pasture, and row crops.	H	high	High terrace lands generally free from inundation except during exceptionally high river flows.
	0	0	0	0				
AD	0	0	0	0	Deciduous orchard			
	0	0	0	0				
VI	18	45	17	41	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L	low	Low terrace lands generally inundated at only moderately high river flows.
	0	0	4	10				
V2	0	0	4	9	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxxx		Riprap
	0	0	0	0				
V3	10	24	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.			Salmon spawning areas
	0	0	5	12				
V4	9	23	35	86	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bar.			
	0	0	19	47				
Sub-total								
high terrace	37	92	60	149				
low terrace	0	0	28	69				
U	0	0	0	0	Urban or urban related			
PR	15	36	0	0	Formal parks, e.g. Woodson Bridge State Park.			
Rc	0	0	0	0	Commercial recreation			
W	21	52	46	113	Water surface			
OW	0	0	0	0	Oxbow lakes, isolated from river			
R	0	0	43	106	Gravel bars, rocks, sand			
GH	0	0	0	0	Grass, upland hardwoods, mainly oaks			
Total	73	180	177	437				






<p>APPROXIMATE SCALE 1 INCH = 1000 FEET ENLARGED FROM EXPOSURE NO. WR-AFV-I-94</p>	<p>PHOTOGRAPHED AUGUST 1976 SYMBOL WR-AFV FOCAL LENGTH 152.66 mm</p>	<p>STATE OF CALIFORNIA THE RESOURCES AGENCY UPPER SACRAMENTO RIVER TASK FORCE</p>	<p>SACRAMENTO RIVER COLUSA TO KESWICK DAM</p>	<p>Land Use and Riparian Vegetation</p>	<p>SHEET 45</p>
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line












-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of owner)

		Hectares	Acres
	Shasta County	13	31
P	Prime Agricultural Land		
	Tehama County	84	207

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



SHASTA COUNTY
and
TEHAMA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-94

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	28 0	68 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	32 4	80 9	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	1 0	3 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	61 9	151 23	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	122 13	302 32			
U	0	0	Urban or urban related		
PR	4	11	Formal parks, e.g. Woodson Bridge State Park.		
Rc	2	6	Commercial recreation		
W	59	146	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	0	0	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	201	498			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-97

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
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Land Use
 and
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

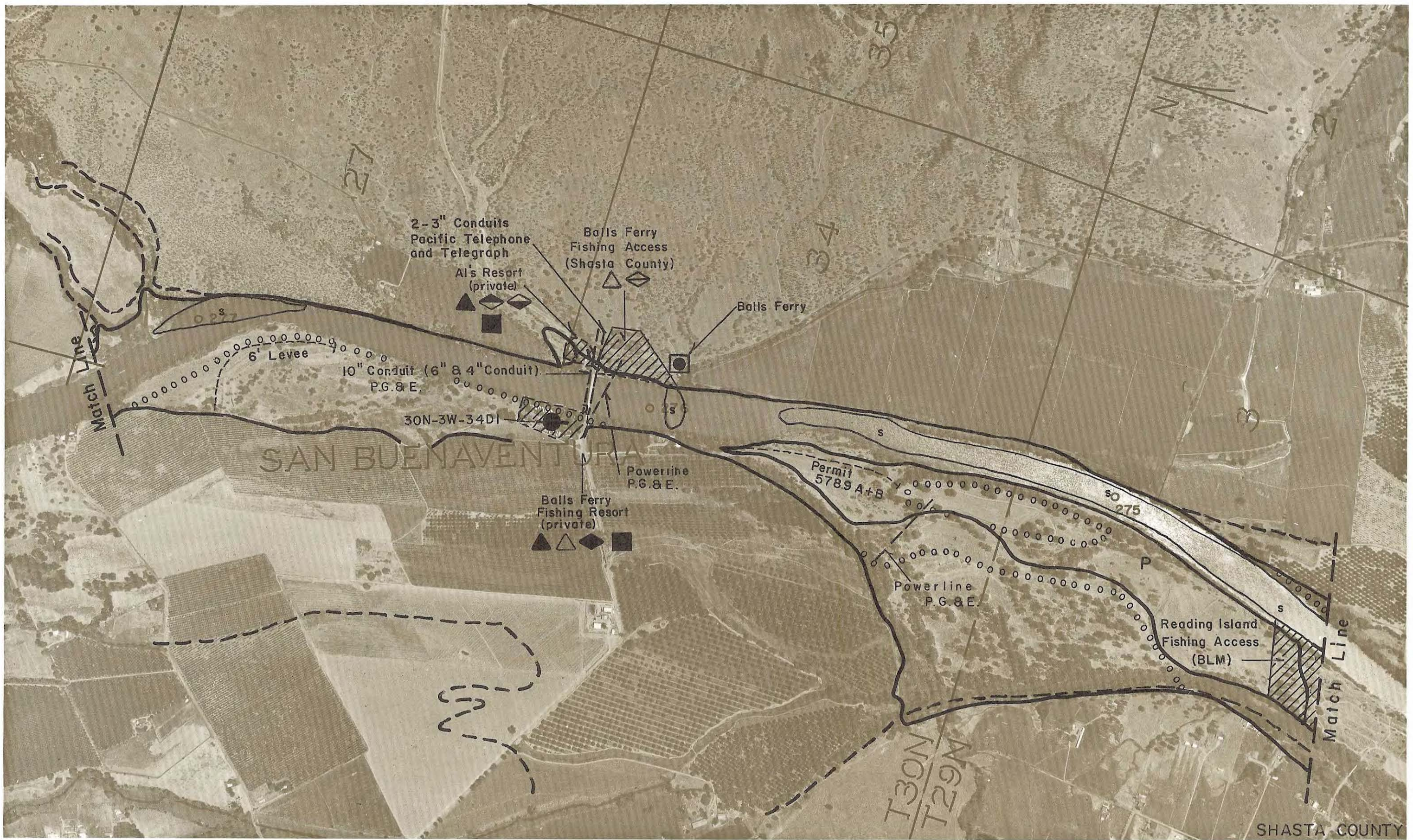
P	Prime Agricultural Land	Shasta County	Hectares	Acres
			44	109

GAGING STATIONS

- | | |
|---|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point
(Name of Facility)  Sanitary Disposal Plant
(Name of Facility) |
|---|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-97

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
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 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	6 0	16 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low xxxxx	Low terrace lands generally inundated at only moderately high river flows. Riprap
V2 high terrace low terrace	22 7	54 18	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.		Salmon spawning areas
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		
V4 high terrace low terrace	49 0	120 0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	77 7	190 18			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	46	113	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	10	24	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	140	345			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-99

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

Land Use
 and
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or owners name)

 Snag












 Public Lands (Name of owner)

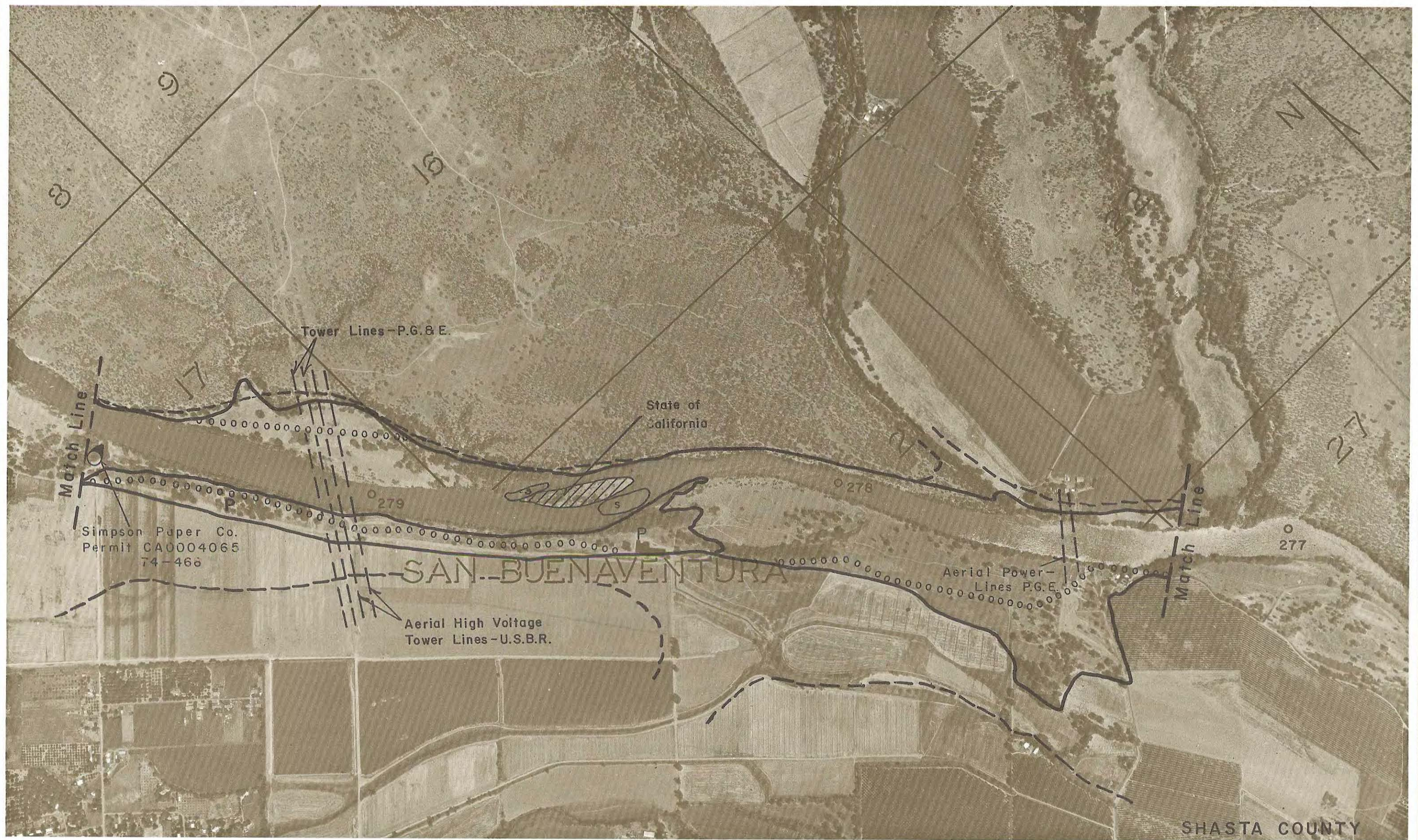
P	Prime Agricultural Land	Shasta County	Hectares	Acres
			19	47

GAGING STATIONS

- | | |
|---|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|---|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-99

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	12 0	29 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	56 0	138 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	8 6	19 14	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	7 49	18 122	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	51 30	127 75	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	134 85	331 211			
U	6	15	Urban or urban related		
PR	4	9	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	72	177	Water surface		
OW	5	13	Oxbow lakes, isolated from river		
R	15	36	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	321	792			

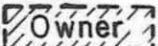
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line








 Commercial Gravel (Permit number or Owners name)

 Snag

 Public Lands (Name of Owner)

P Prime Agricultural Land Shasta County Hectares 83 Acres 204

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-103

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

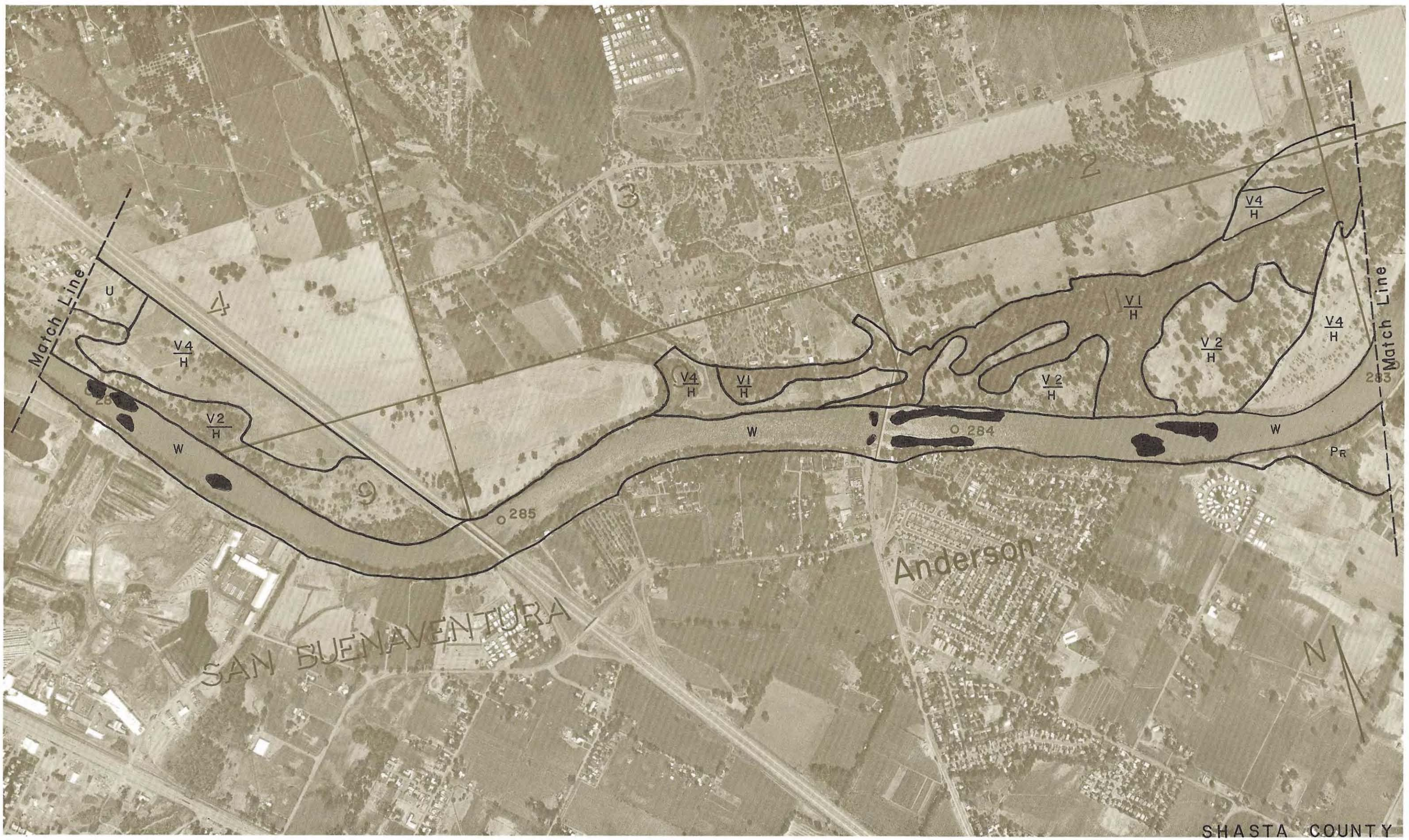
Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Shasta County					Denominator Symbols
	Hectares	Acres				
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.			H high High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard			
V1 high terrace low terrace	49 0	120 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comp- rised of box elder, grape, blackberry, poison oak, and some perennial grasses.			L low Low terrace lands generally inundated at only moderately high river flows. xxxxx Riprap
V2 high terrace low terrace	51 0	125 0	Vegetation similar to V1 but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.			Salmon spawning areas
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.			
V4 high terrace low terrace	41 0	102 0	Comprised mainly of forbs, grasses, and low- growing willows and alders. Generally the next vegetative step above raw gravel bars.			
Sub-total high terrace low terrace	141 0	347 0				
U	3	8	Urban or urban related			
PR	7	18	Formal parks, e.g. Woodson Bridge State Park.			
Rc	0	0	Commercial recreation			
W	64	157	Water surface			
OW	0	0	Oxbow lakes, isolated from river			
R	0	0	Gravel bars, rocks, sand			
GH	0	0	Grass, upland hardwoods, mainly oak			
Total	215	530				



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-105

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
 and
 Riparian Vegetation

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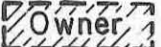
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)

 Snag

 Public Lands (Name of Owner)










P Prime Agricultural Land Shasta County

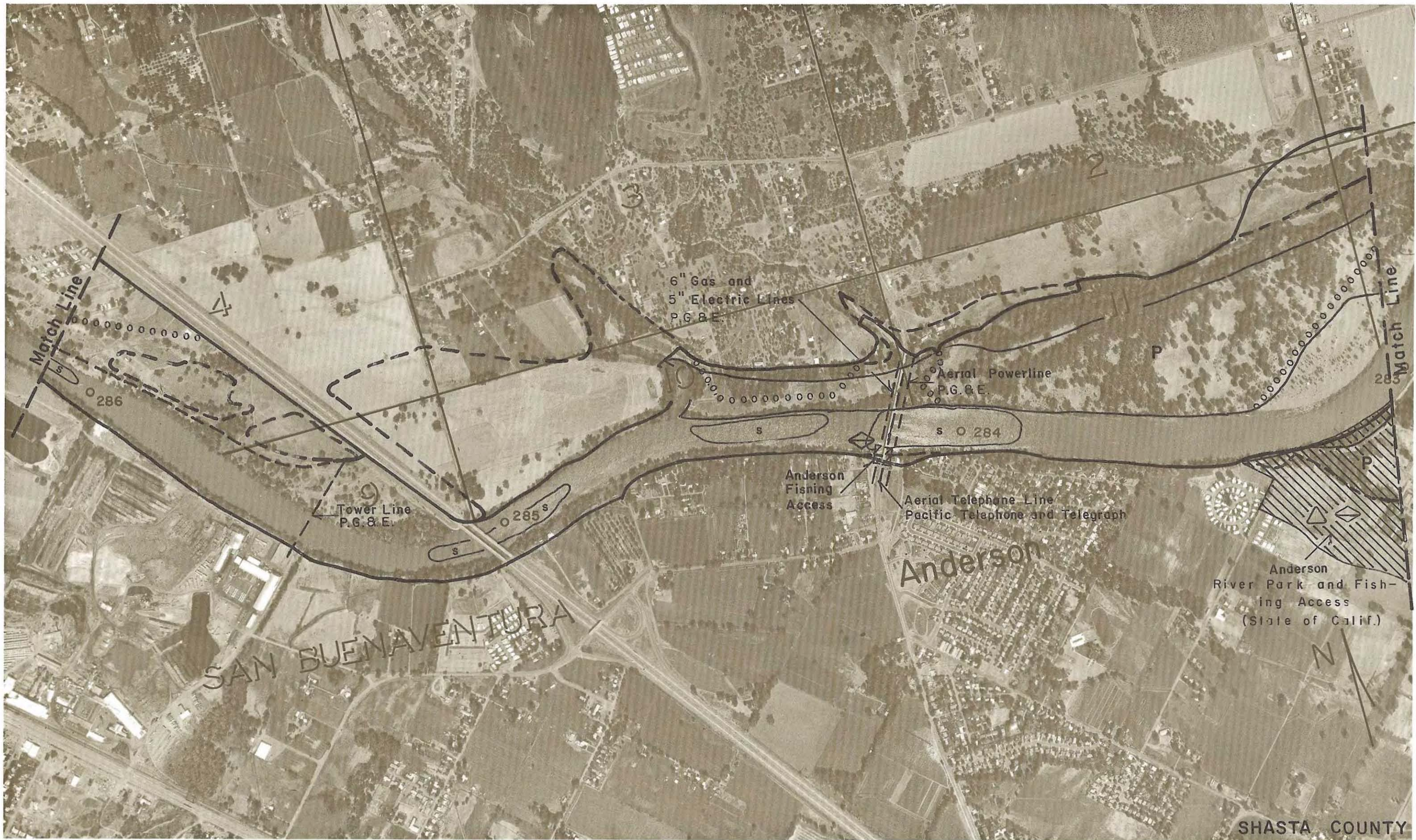
Hectares	Acres
69	171

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-105

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

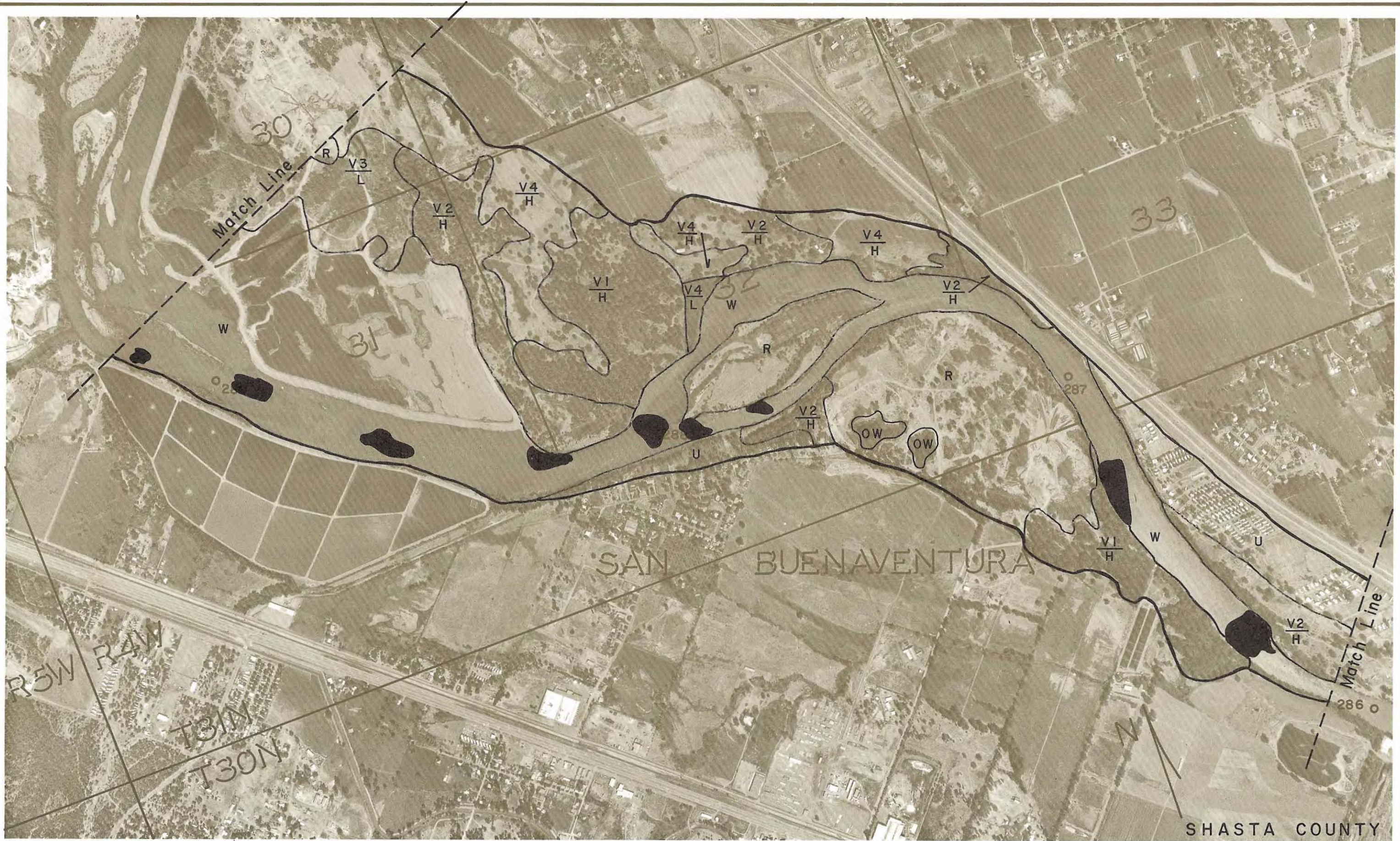
Prime Agricultural
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Land Use and Riparian Vegetation

<u>Symbol</u>	<u>Shasta</u>	<u>County</u>		<u>Denominator Symbols</u>
	<u>Hectares</u>	<u>Acres</u>		
AG high terrace	0	0	General crops including grains, alfalfa, pasture, and row crops.	H high
low terrace	0	0		
AD high terrace	0	0	Deciduous orchard	
low terrace	0	0		
VI high terrace	40	100	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low
low terrace	0	0		
V2 high terrace	48	119	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx
low terrace	0	0		
V3 high terrace	0	0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.	
low terrace	15	37		
V4 high terrace	37	91	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.	Salmon spawning areas
low terrace	1	3		
Sub-total				
high terrace	125	310		
low terrace	16	40		
U	25	62	Urban or urban related	
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.	
Rc	0	0	Commercial recreation	
W	132	326	Water surface	
OW	2	6	Oxbow lakes, isolated from river	
R	62	154	Gravel bars, rocks, sand	
GH	0	0	Grass, upland hardwoods, mainly oak	
Total	362	898		



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-107

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM


Land Use
 and
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line









 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

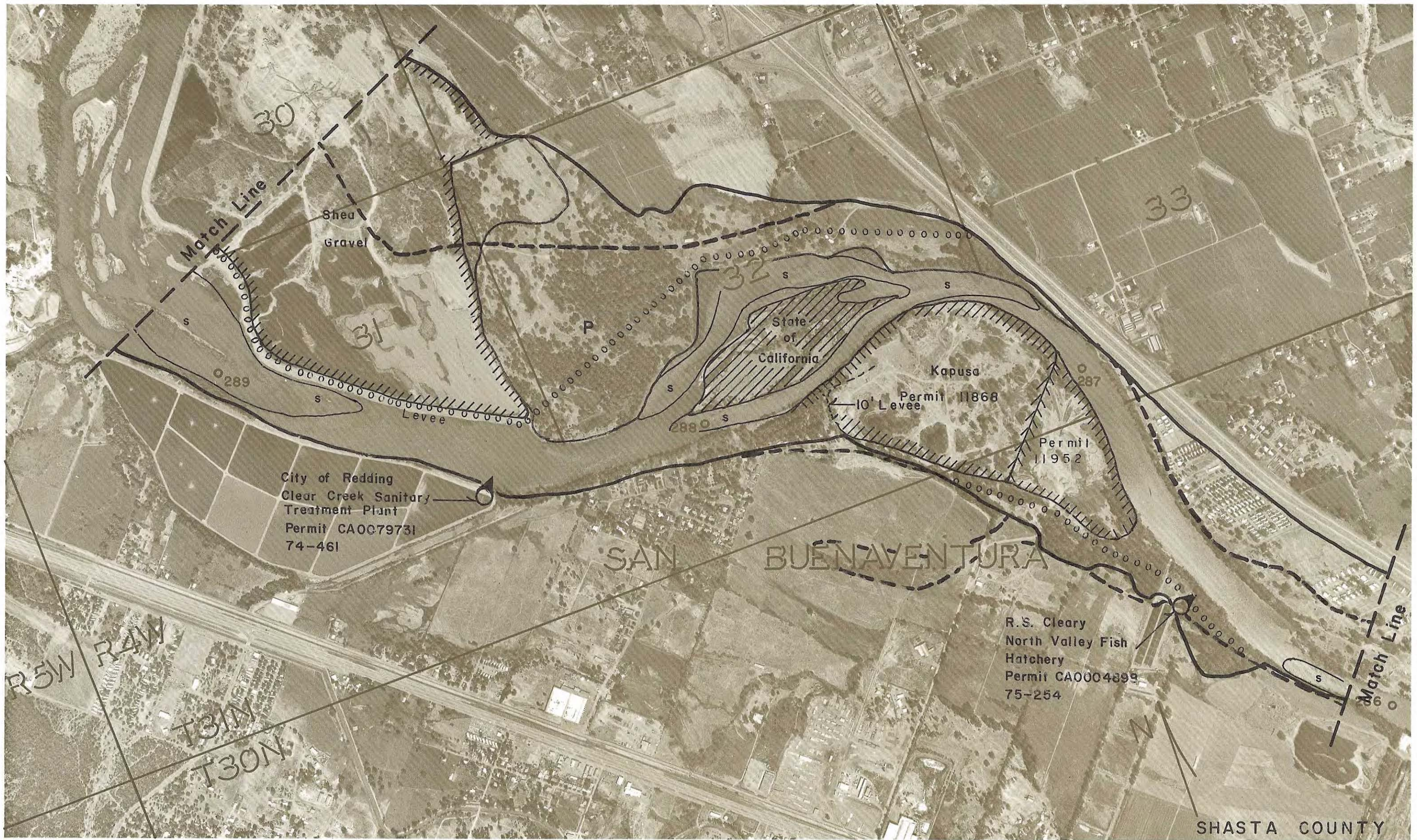
P	Prime Agricultural Land	Shasta County	Hectares 66	Acres 162
---	-------------------------	---------------	----------------	--------------

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1107

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	0 0	0 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	35 0	86 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	14 18	35 44	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	62 4	153 11	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	111 22	274 55			
U	11	27	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	80	198	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	46	113	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	270	667			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-III

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM




Land Use
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Prime Agricultural Lands





-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)












P Prime Agricultural Land Shasta County

Hectares	Acres
16	39

GAGING STATIONS

- | | |
|---|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|---|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-III

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
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SACRAMENTO RIVER
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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	0 0	0 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 0	0 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	7 19	18 47	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	9 9	23 22	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	16 28	41 69			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	99	245	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	2	4	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	145	359			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-113

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
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Prime Agricultural Lands









-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

-  Commercial Gravel (Permit number or Owners name)
-  Snag
-  Public Lands (Name of Owner)












P Prime Agricultural Land Shasta County

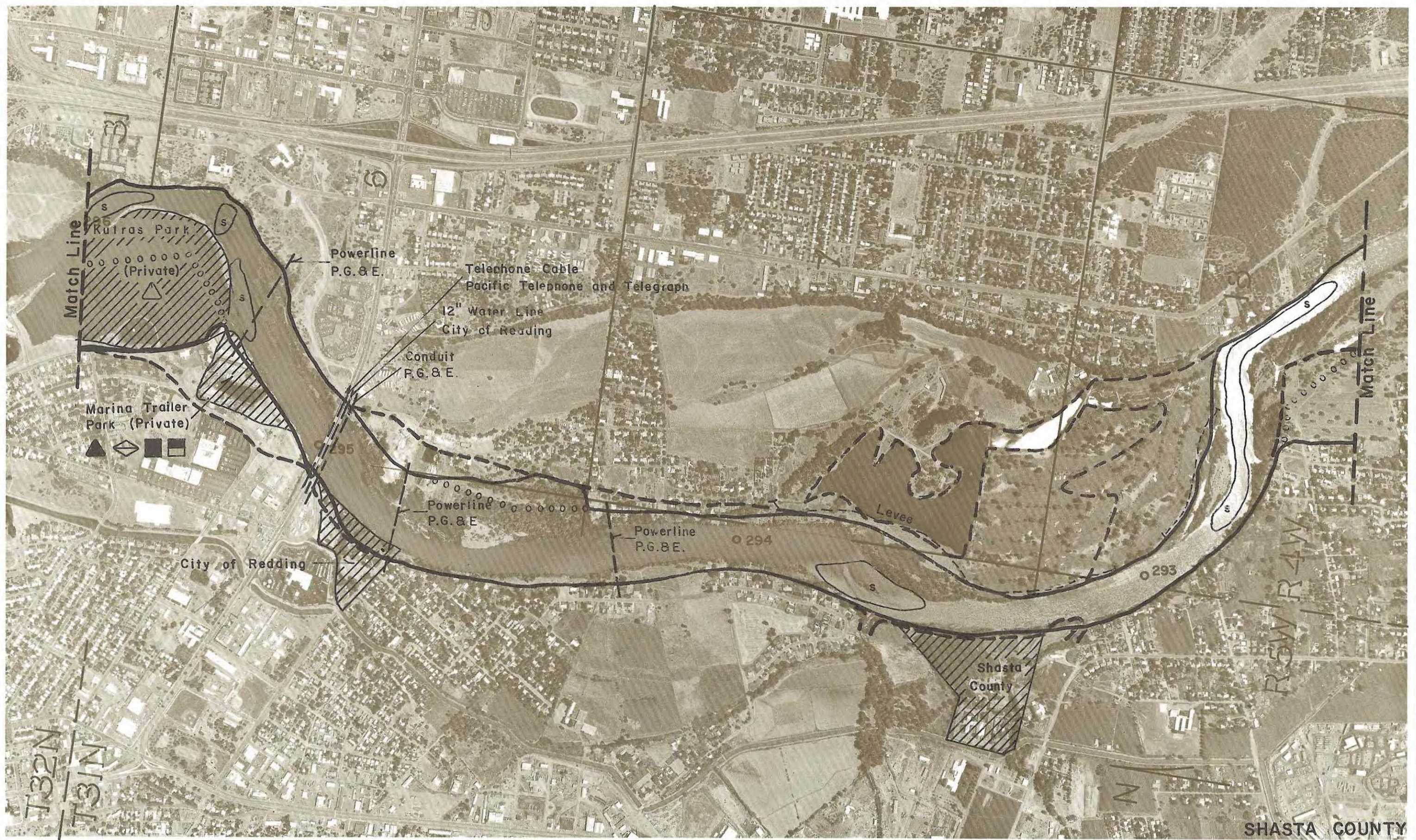
Hectares	Acres
0	0

GAGING STATIONS

- | | |
|---|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|---|---|

RECREATION FACILITIES

- | | |
|--|--|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|--|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-113

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

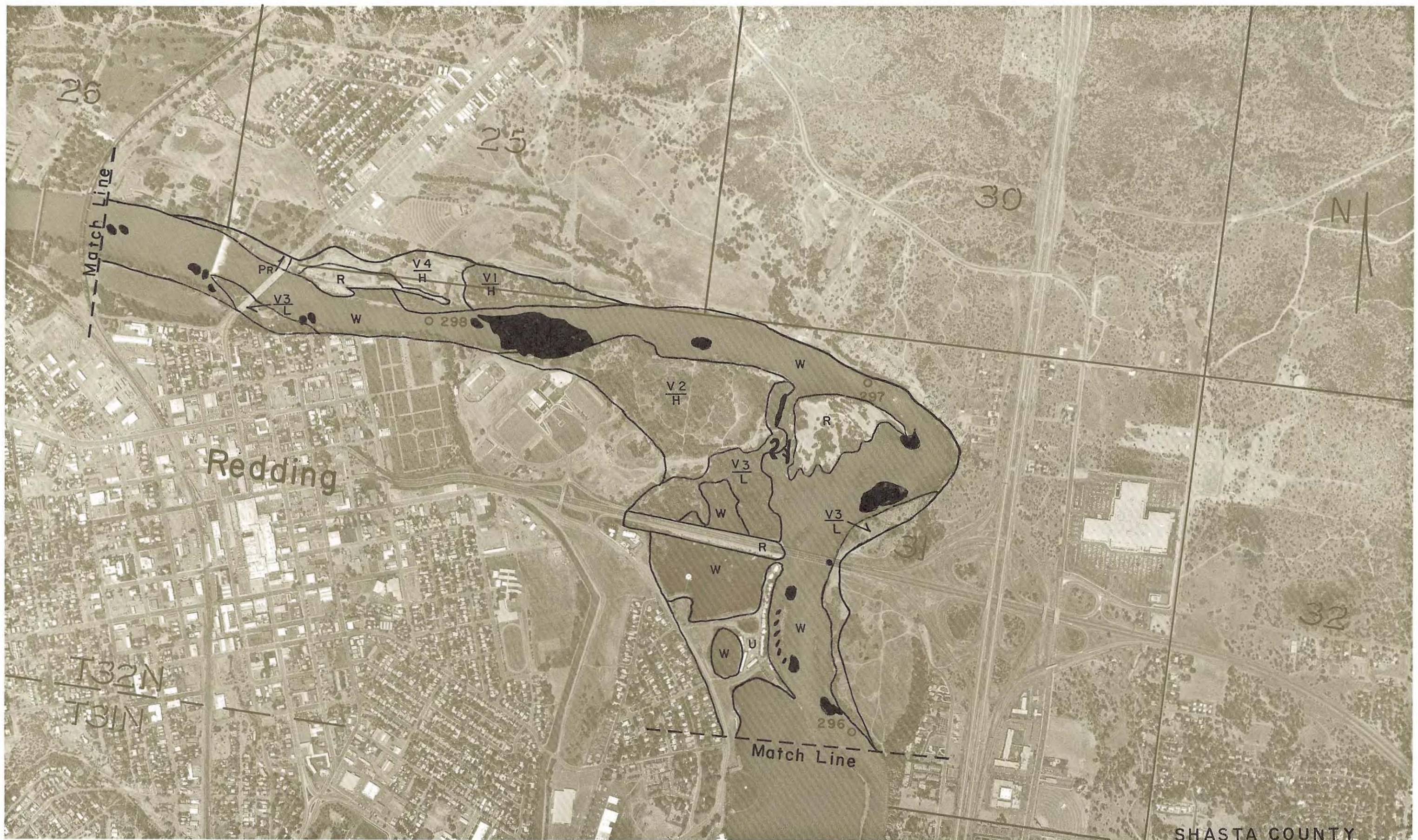
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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	5 0	12 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	20 0	49 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap.
V3 high terrace low terrace	0 14	0 34	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	6 0	14 0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	31 14	75 34			
U	7	18	Urban or urban related		
PR	2	5	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	86	212	Water surface.		
OW	0'	0	Oxbow lakes, isolated from river		
R	12	30	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	152	374			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-1-114

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

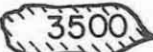
Land Use
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line








 Commercial Gravel (Permit number or Owners name)

 Snag












 Public Lands (Name of Owner)

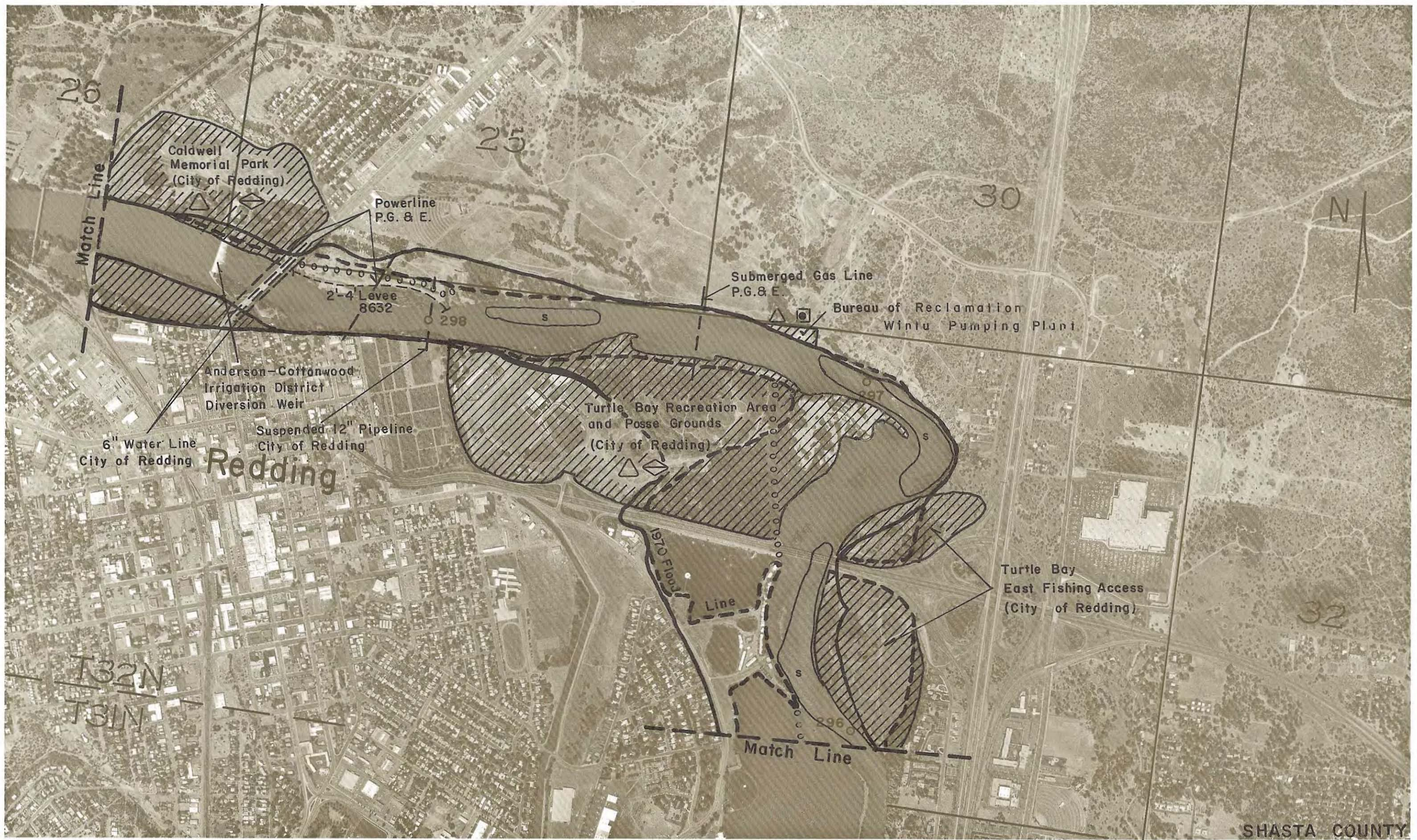
P	Prime Agricultural Land	Shasta County	Hectares	Acres
			0	0

GAGING STATIONS

- | | |
|--|---|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|--|---|

RECREATION FACILITIES

- | | |
|--|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|--|---|



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I-114

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

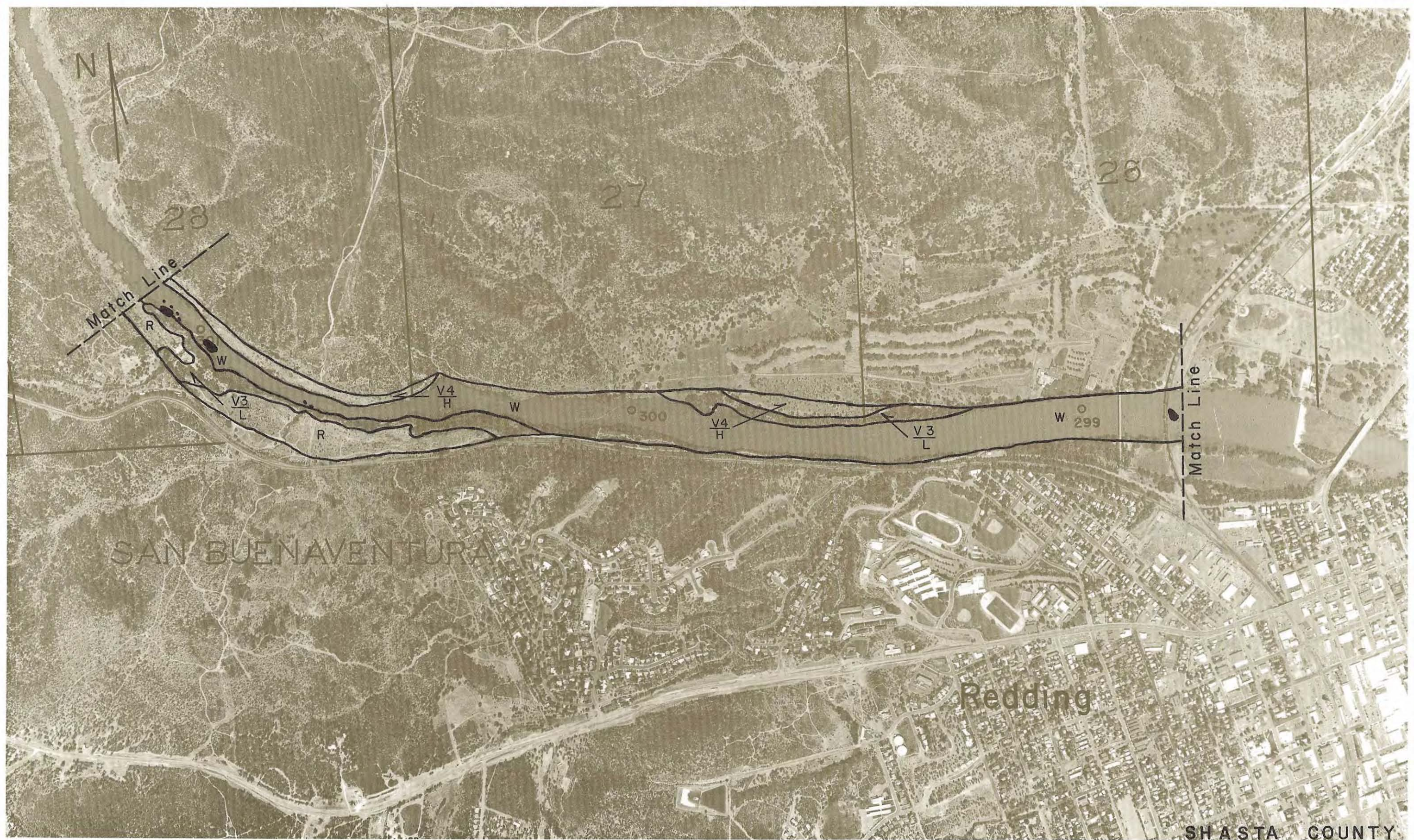
Prime Agricultural
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Land Use and Riparian Vegetation

Symbol	Shasta County			Denominator Symbols	
	Hectares	Acres			
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high	High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard		
VI high terrace low terrace	0 0	0 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low	Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 0	0 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx	Riprap
V3 high terrace low terrace	0 11	0 28	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.		Salmon spawning areas
V4 high terrace low terrace	7 0	17 0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.		
Sub-total high terrace low terrace	7 11	17 28			
U	0	0	Urban or urban related		
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.		
Rc	0	0	Commercial recreation		
W	43	107	Water surface		
OW	0	0	Oxbow lakes, isolated from river		
R	12	29	Gravel bars, rocks, sand		
GH	0	0	Grass, upland hardwoods, mainly oak		
Total	73	181			



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I118

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line

 Commercial Gravel (Permit number or Owners name)





 Snag





 Public Lands (Name of Owner)

P Prime Agricultural Land Shasta County







Hectares	Acres
0	0

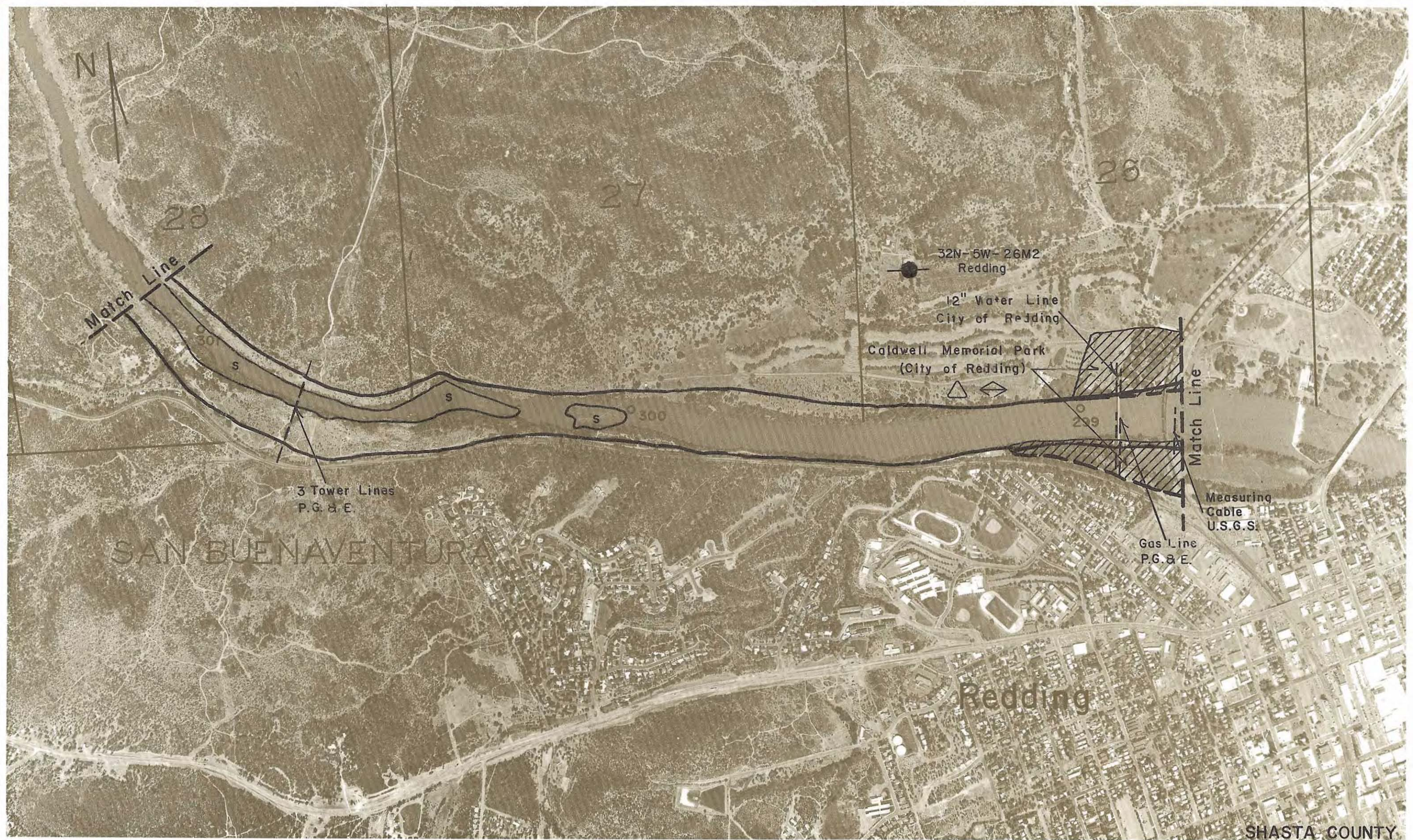
GAGING STATIONS

-  Stream Gage
-  Stream Gage and Surface Water Quality Sampling Station
-  Surface Water Quality Sampling Station
-  Ground Water Sampling Station

-  Climatological Station
-  Sedimentation Sampling Station
-  Waste Discharge Point (Name of Facility)
-  Sanitary Disposal Plant (Name of Facility)

RECREATION FACILITIES

-  Camping
-  Picnicking
-  Boat Ramp, Docks, and Rentals
-  Boat Dock or Slip
-  Boat Ramp or Hoist
-  Boat Rentals
-  Cafe, Bait, Tackle, and Gas
-  Cafe
-  Bait and Tackle
-  Gas
-  Archeological-Historical Sites



APPROXIMATE SCALE 1 INCH = 1000 FEET
 ENLARGED FROM EXPOSURE NO. WR-AFV-I118

PHOTOGRAPHED AUGUST 1976
 SYMBOL WR-AFV
 FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 UPPER SACRAMENTO RIVER TASK FORCE


SACRAMENTO RIVER
 COLUSA TO KESWICK DAM

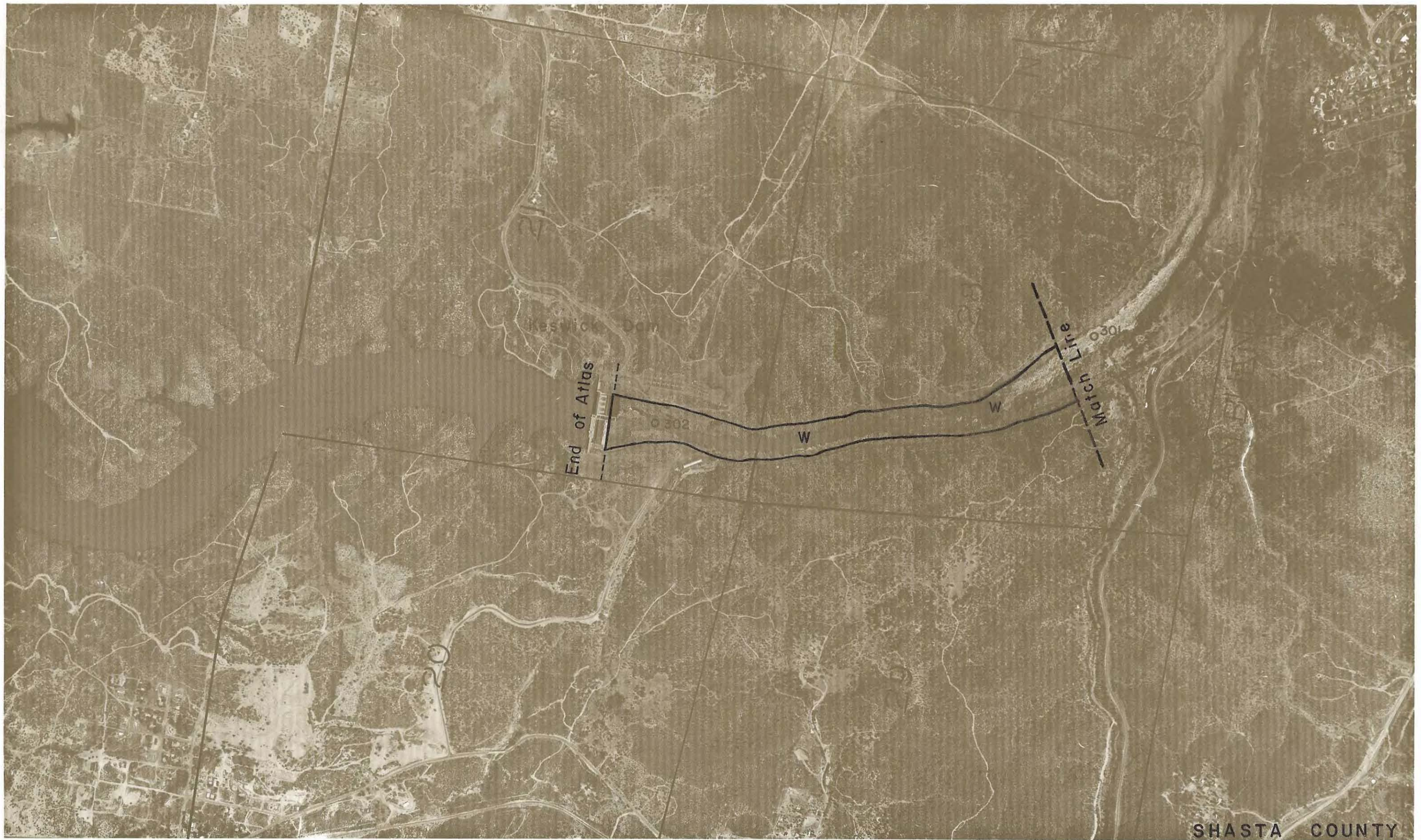
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Land Use and Riparian Vegetation

<u>Symbol</u>	<u>Shasta</u>	<u>County</u>		<u>Denominator Symbols</u>
	<u>Hectares</u>	<u>Acres</u>		
AG high terrace low terrace	0 0	0 0	General crops including grains, alfalfa, pasture, and row crops.	H high High terrace lands generally free from inundation except during exceptionally high river flows.
AD high terrace low terrace	0 0	0 0	Deciduous orchard	
VI high terrace low terrace	0 0	0 0	Large climax vegetation restricted mainly to black walnuts, cottonwoods, sycamores, oaks, and alders with an understory comprised of box elder, grape, blackberry, poison oak, and some perennial grasses.	L low Low terrace lands generally inundated at only moderately high river flows.
V2 high terrace low terrace	0 0	0 0	Vegetation similar to VI but with less crown density and tree height. Mix of trees tends more toward alders, cottonwoods, and willows -- subclimax vegetation.	xxxxx Riprap
V3 high terrace low terrace	0 0	0 0	Vegetation less mature than V2, lower tree height, open crown density. Comprised mainly of young alders, cottonwoods, and willows.	 Salmon spawning areas
V4 high terrace low terrace	0 0	0 0	Comprised mainly of forbs, grasses, and low-growing willows and alders. Generally the next vegetative step above raw gravel bars.	
Sub-total high terrace low terrace	0 0	0 0		
U	0	0	Urban or urban related	
PR	0	0	Formal parks, e.g. Woodson Bridge State Park.	
Rc	0	0	Commercial recreation	
W	18	45	Water surface	
OW	0	0	Oxbow lakes, isolated from river	
R	0	0	Gravel bars, rocks, sand	
GH	0	0	Grass, upland hardwoods, mainly oak	
Total	18	45		



APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-121

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
THE RESOURCES AGENCY
UPPER SACRAMENTO RIVER TASK FORCE




SACRAMENTO RIVER
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Prime Agricultural Lands

-  Study Area Boundary
-  Designated Floodway
-  1970 Flood Line



Commercial Gravel (Permit number or Owners name)











Snag














Public Lands (Name of owner)

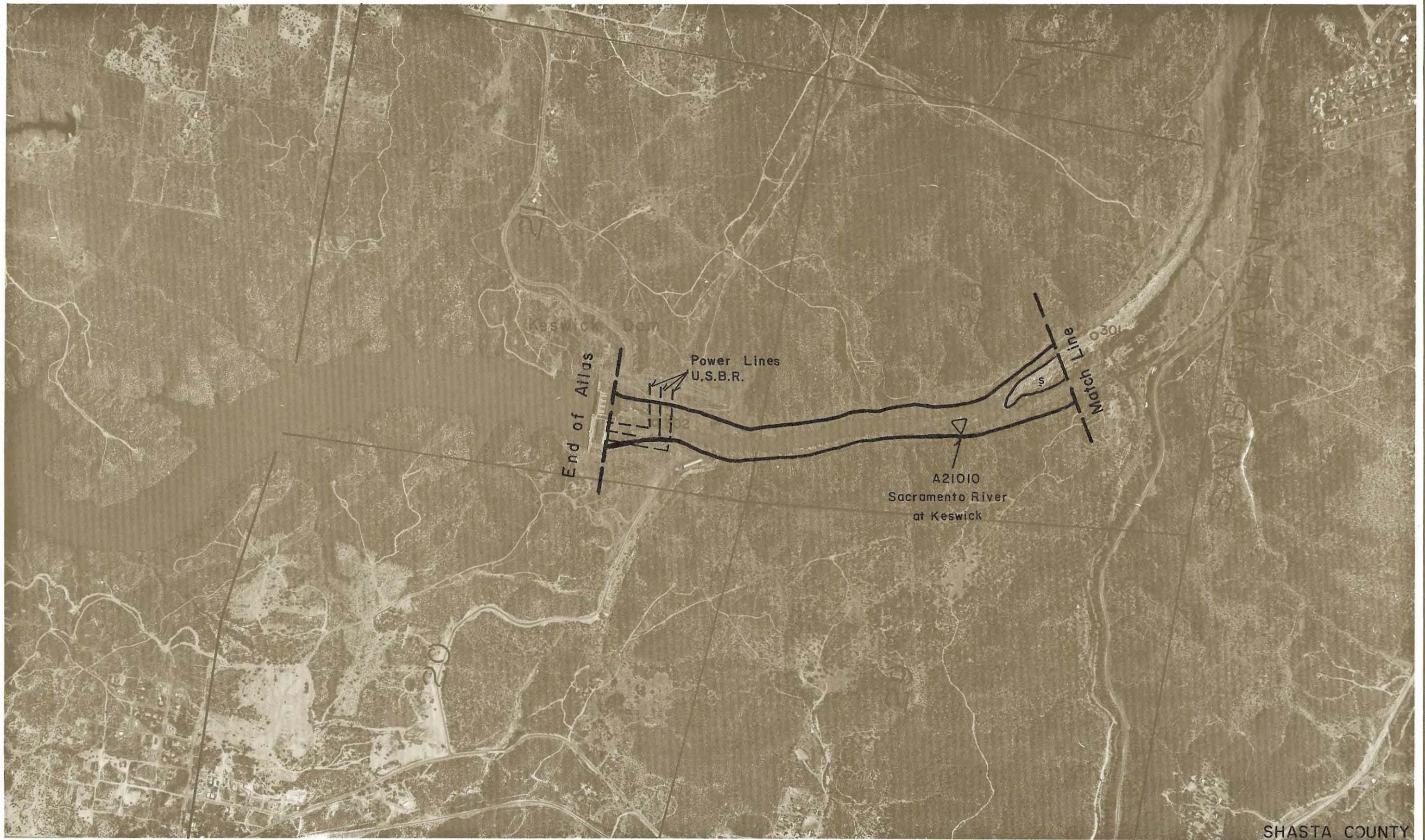
P	Prime Agricultural Land	Shasta County	Hectares	Acres
			0	0

GAGING STATIONS

- | | |
|---|--|
| <ul style="list-style-type: none">  Stream Gage  Stream Gage and Surface Water Quality Sampling Station  Surface Water Quality Sampling Station  Ground Water Sampling Station | <ul style="list-style-type: none">  Climatological Station  Sedimentation Sampling Station  Waste Discharge Point (Name of Facility)  Sanitary Disposal Plant (Name of Facility) |
|---|--|

RECREATION FACILITIES

- | | |
|---|---|
| <ul style="list-style-type: none">  Camping  Picnicking  Boat Ramp, Docks, and Rentals  Boat Dock or Slip  Boat Ramp or Hoist  Boat Rentals | <ul style="list-style-type: none">  Cafe, Bait, Tackle, and Gas  Cafe  Bait and Tackle  Gas  Archeological-Historical Sites |
|---|---|



SHASTA COUNTY

APPROXIMATE SCALE 1 INCH = 1000 FEET
ENLARGED FROM EXPOSURE NO. WR-AFV-I-121

PHOTOGRAPHED AUGUST 1976
SYMBOL WR-AFV
FOCAL LENGTH 152.66 mm

STATE OF CALIFORNIA
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SACRAMENTO RIVER
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