UCD LIBRARY

PHYSICAL
SCIENCES
LIBRARY

S

STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

APR

BULLETIN No. 130-69

HYDROLOGIC DATA: 1969

Volume IV: SAN JOAQUIN VALLEY

UNIVERSITY OF CALIFORNIA
DAVIS
FEB 22 1971
LIBRARY

NOVEMBER 1970

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 130-69

HYDROLOGIC DATA: 1969

Volume IV: SAN JOAQUIN VALLEY

Copies of this bulletin at $4.00 each may be ordered from:

Office of Procurement
DOCUMENTS SECTION
P.O. Box 20191
Sacramento, California 95820

Make checks payable to STATE OF CALIFORNIA.
California residents add 5 percent sales tax.

NOVEMBER 1970

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

UCD LIBRARY

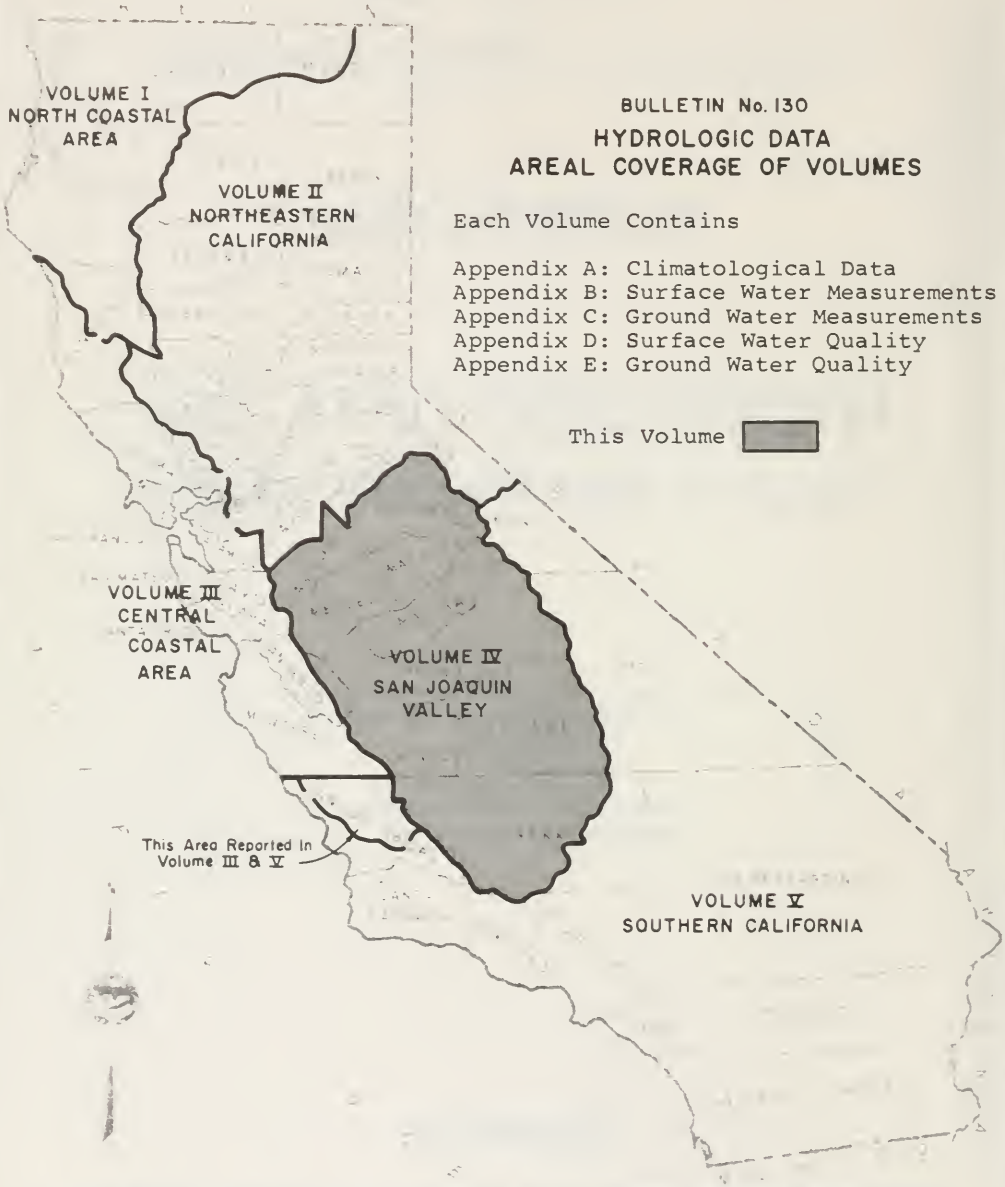
BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality

This Volume



FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-69 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
State of California
September 16, 1970

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Centigrade = (°F-32°)5/9	

TABLE OF CONTENTS

	Page
AREAL COVERAGE OF VOLUMES	ii
FOREWORD	iii
METRIC CONVERSION TABLE	iv
ORGANIZATION, DEPARTMENT OF WATER RESOURCES	vii
ACKNOWLEDGMENTS	ix
ABSTRACT	x
APPENDIXES	
Appendix A: CLIMATOLOGICAL DATA	1
Introduction	3

FIGURES

Figure Number		
A-1	Climatological Observation Stations	4

TABLES

Table Number		
A-1	Index of Climatological Stations	11
A-2	Precipitation Data	18
A-3	Storage Gage Precipitation Data	23
A-4	Temperature Data	25
A-5	Evaporation Data	30
A-6	Climatological Station Changes and Relocations	32

Appendix B: SURFACE WATER MEASUREMENT	33
Introduction	35
Alphabetical Index to Tables	36
Hydrographic Area and Stream Basin Index to Surface Water Measurement Stations	37

FIGURES

Figure Number		
B-1	Location of Surface Water Measurement Stations	38

TABLES

Table Number		
B-1	Annual Unimpaired Runoff	44
B-2	Monthly Unimpaired Runoff	46
B-3	Gaging Station Additions and Discontinuations	47
B-4	Daily Mean Discharge	48
B-5	Tulare Lake Inflow	106
B-6	Streamflow Measurements at Miscellaneous Locations	109
B-7	Diversions	111
B-8	Diversions and Acreage Irrigated--Eastside Canals and Irrigation Districts	121
B-9	Deliveries from Central Valley Project Canals	122
B-10	Deliveries from California Aqueduct	124
B-11	Imports and Exports	125
B-12	Daily Mean Gage Height	126
B-13	Corrections and Revisions to Previously Published Reports	145

Page

Appendix C: GROUND WATER MEASUREMENT 149

Introduction 151

FIGURES

Figure Number

C-1 Fluctuation of Average Water Level in Selected Areas 152

C-2 Fluctuation of Water Levels in Selected Wells 158

TABLES

Table Number

C-1 Change in Average Ground Water Level in Districts or Areas in the San Joaquin Valley . . . 174

C-2 Change in Average Ground Water Level from 1921 to 1951 and 1951 to 1969 in 18 Ground Water Areas in the San Joaquin Valley 177

C-3 Ground Water Levels at Wells 178

Appendix D: SURFACE WATER QUALITY 199

Introduction 201

FIGURES

Figure Number

D-1 Location of Surface Water Quality Sampling Stations 203

D-2 Daily Mean Specific Conductance at Selected Stations, San Joaquin Valley 204

TABLES

Table Number

D-1 Sampling Station Data and Index for Surface Water 202

D-2 Mineral Analyses of Surface Water 207

D-3 Trace Mineral Analyses of Surface Water 218

D-4 Miscellaneous Constituents of Surface Water 226

Appendix E: GROUND WATER QUALITY 229

Introduction 231

TABLES

Table Number

E-1 Mineral Analyses of Ground Water 232

E-2 Trace Mineral Analyses of Ground Water 248

PLATES
(Bound at end of volume)

Plate Number

1 Ground Water Level Changes, Unconfined and Semiconfined Aquifers, and Selected Observation Wells

2 Ground Water Level Changes, Confined and Semiconfined Aquifers, and Cooperative Program Areas

3 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951, & 1969

4 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1969

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

by the

SAN JOAQUIN DISTRICT

Carl L. Stetson . . . . . District Engineer, San Joaquin District
Floyd I. Bluhm . . . . . Chief, Water Supply and Utilization Section
G. Donald Meixner . . . . . Chief, Planning and Investigations Section

Activities covered by and the preparation of this
report were under the supervision of

Cledith L. Chastain . . . . . Chief, Water Supply Unit
Victor B. McIntyre . . . . . Chief, Water Quality Unit

Appendixes A, B, and C of this report were prepared by

William A. Mancebo . . . . . Climatology . . . . . Water Resources Technician II

Harry R. Brenner . . . . . Surface Water . . . . . Water Resources Technician II

John Gostanian . . . . . Ground Water . . . . . Water Resources Engineering Associate

Robert W. Grimshaw . . . . . .Modesto Field Office . . . . . Water Resources Engineering Associate

Assisted by

Keithal B. Dick . . . . . Water Resources Technician II
Donald R. Henley . . . . . Water Resources Technician II
Thomas E. Stowell, Jr. . . . . Water Resources Technician II
Donald W. Colburn . . . . . Water Resources Technician II
John E. Baird . . . . . Water Resources Technician II
James H. Davies . . . . . .Water Resources Technician I
Lloyd Hartwig . . . . . .Water Resources Technician I
Anthony D. Camoroda . . . . . .Engineering Aid II
Tracy E. Nelson . . . . . .Engineering Aid II
Dick S. Wood . . . . . .Engineering Aid II
Henry W. Rogers . . . . . Senior Delineator
Joseph F. Schweizer . . . . . Delineator
C. Collette Blair . . . . . Stenographer II

Appendixes D and E of this report were prepared by

James M. Windsor . . . . . Water Resources Engineering Associate

Assisted by

Tom E. Meredith . . . . . Assistant Engineer, Water Resources
Stanley J. Kuffel . . . . . Water Resources Technician II
Lester S. Obata . . . . . Engineering Aid II
Gary J. Riddle . . . . . Engineering Aid II
Carlynn J. Blackwell . . . . . Stenographer II

Reviewed and coordinated by Division of Resources Development,
Planning Formulation and Coordination Office,
Water Resources Evaluation Section

ACKNOWLEDGMENTS

In the collection of data for this bulletin, the Department has been aided by various public and private agencies and by many private citizens. This cooperation is gratefully acknowledged, and it is especially fitting to commend the following agencies:

U. S. Weather Bureau
U. S. Bureau of Reclamation
U. S. Army Corps of Engineers
U. S. Geological Survey
State Department of Public Health
City and County of San Francisco
City of Modesto
Kern County Water Agency
Kern County Land Company
Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1968-69 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1969; profile of ground water levels; cooperative study areas; ground water level changes; and well locations.

APPENDIX A

CLIMATOLOGICAL DATA

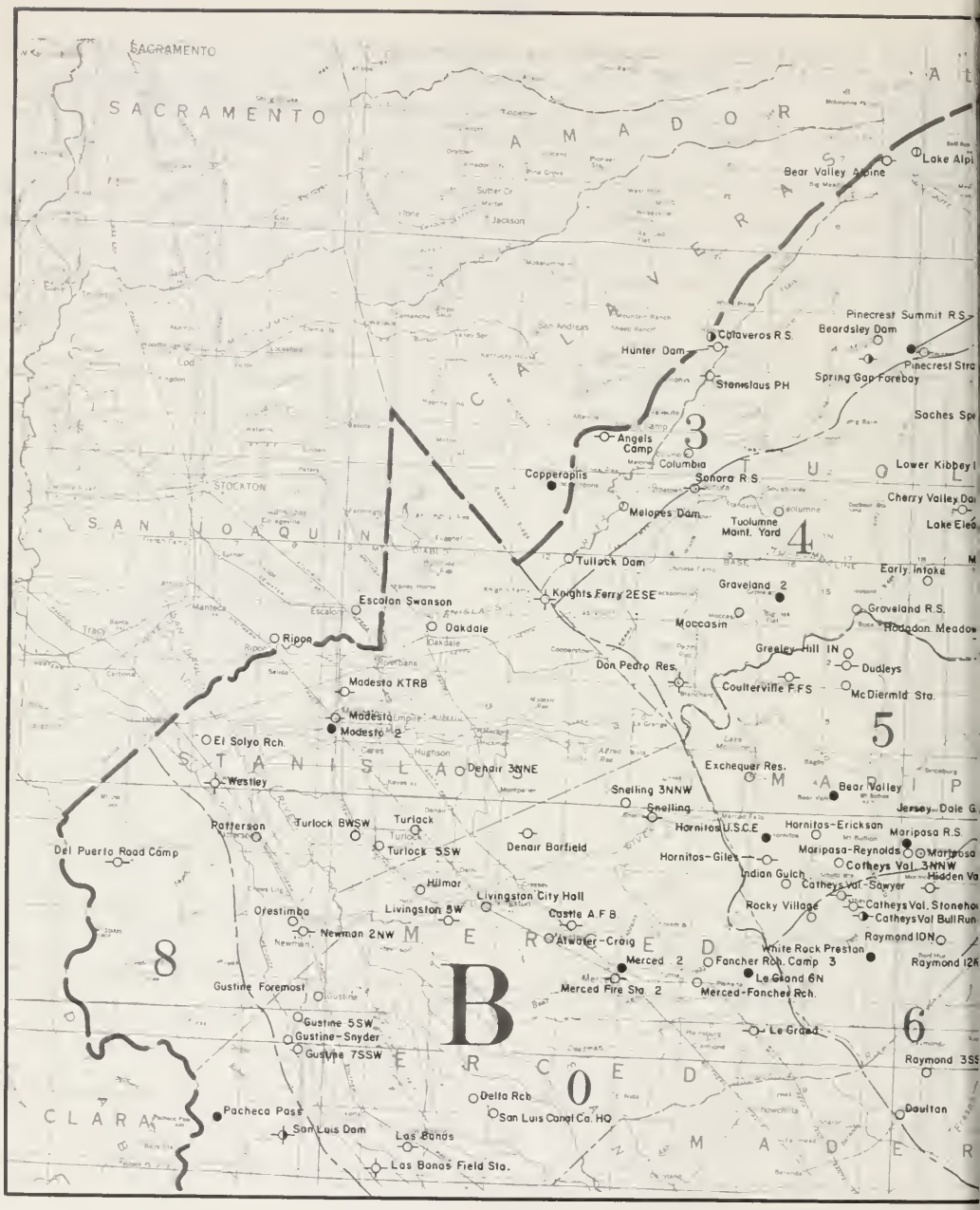
INTRODUCTION

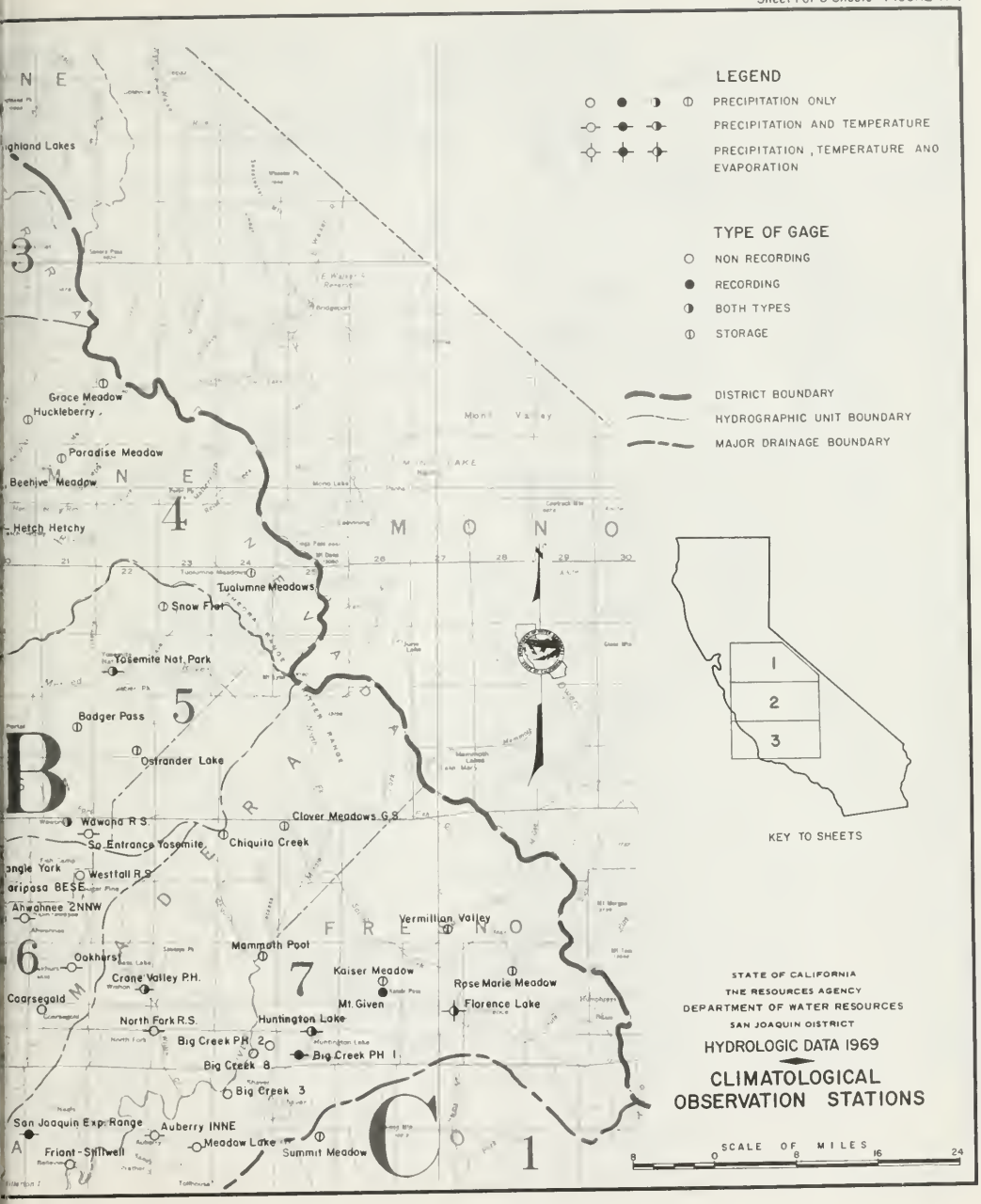
This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the San Joaquin Valley from July 1, 1968 to September 30, 1969. Storage gage precipitation data are annual values. Thirty-two cooperating agencies and 93 local observers supplied the data for the 340 stations reported. Detailed daily and hourly data for some stations, not published here, are available in the files of the Department of Water Resources.

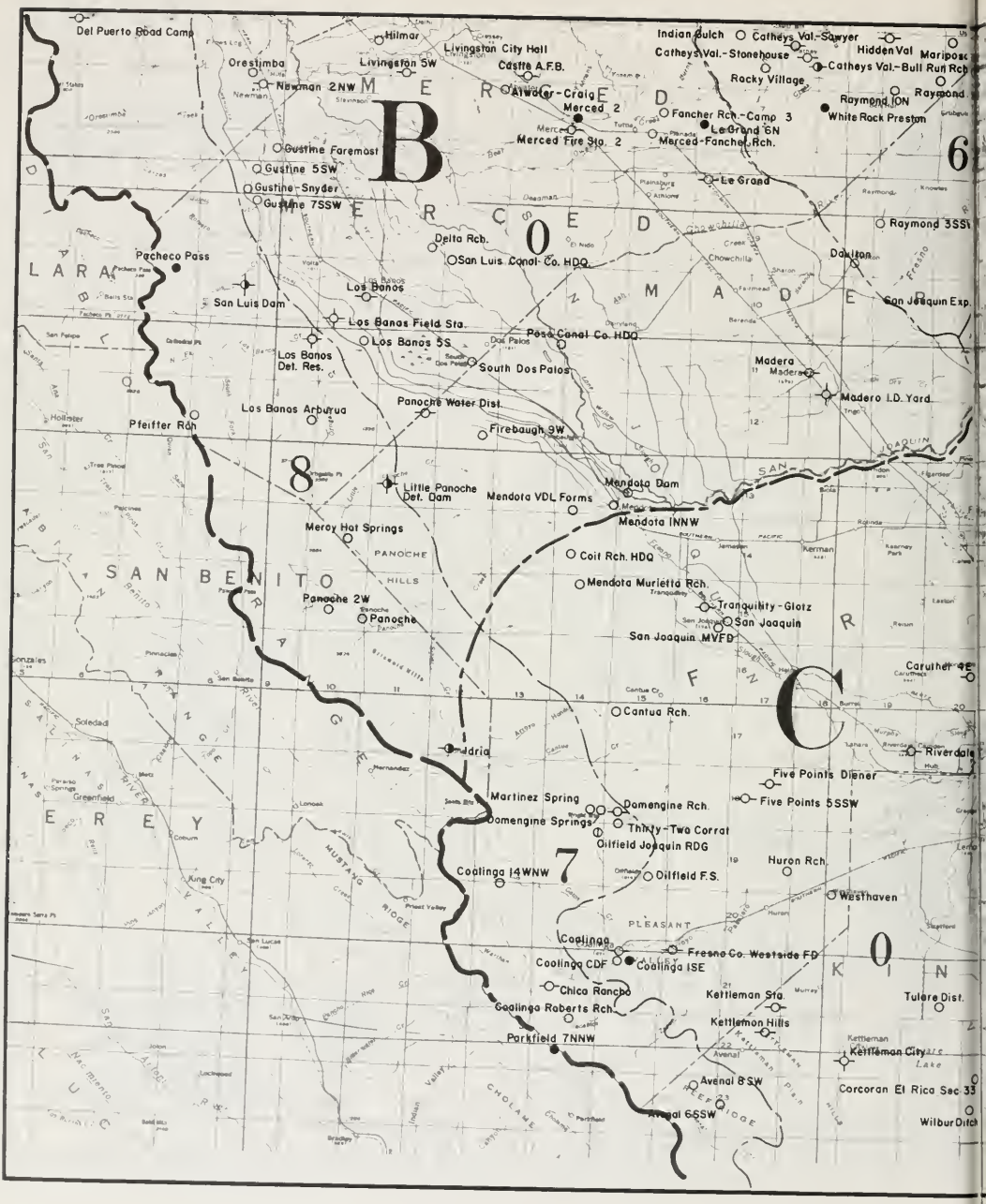
To insure accuracy, stations are inspected annually or semiannually to see that the equipment is properly maintained and that observations generally are taken in accordance with U. S. Weather Bureau standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

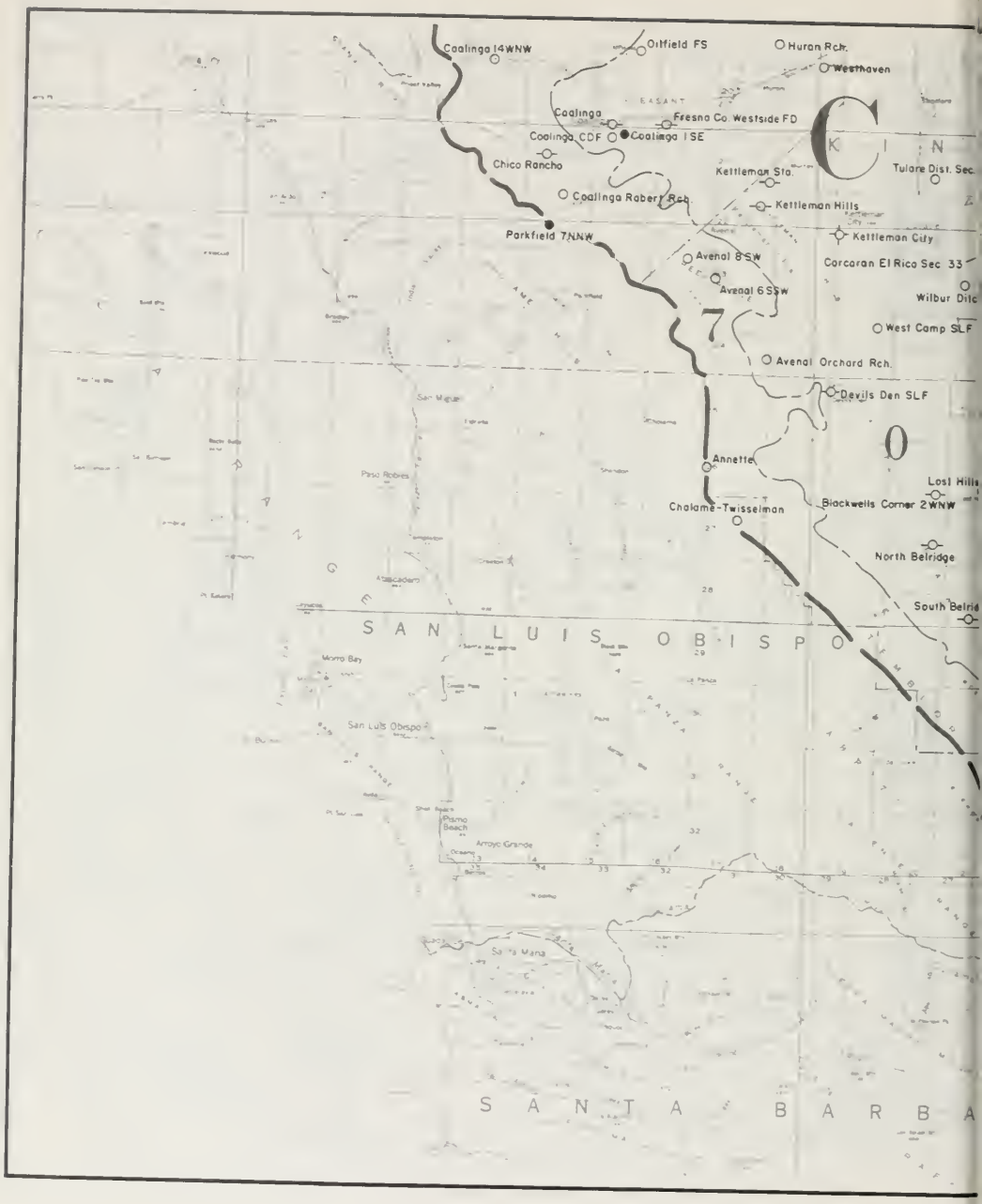
HYDROGRAPHIC AREA B SAN JOAQUIN RIVER BASIN	HYDROGRAPHIC AREA C TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side


SACRAMENTO
SACRAMENTO
AMADOR
CALAVERAS
Bear Valley Alpine
Lake Alpi
Sutter Cr
Jackson
Pinecrest Summit R.S.
Beardsley Dam
Calaveros R.S.
Hunter Dam
Stanislaus PH
Pinecrest Stra
Spring Gap Forebay
Saches Spr
Angels Camp
Columbia
Sonora R.S.
Copperopolis
Melones Dam
Tuolumne Maint. Yard
Lower Kibbey
Cherry Valley Da
Lake Eleo
STOCKTON
SAN JOAQUIN
Tullock Dam
Knights Ferry 2ESE
Early Intake
Graveland 2
Graveland R.S.
Hodgdon Meadow
Escalon Swanson
Oakdale
Moccasin
Manteca
Ripon
Greeley Hill 1N
Dudleys
Don Pedro Res.
Coulterville F.F.S.
McDiermid Sta.
Modesto KTRB
Modesto
Modesto 2
El Solyo Rch.
STANISLAUS
Denair 3NNE
Exchequer Res.
Westley
Snelling 3NNW
Snelling
Bear Valley
Jersey-Dale G
Patterson
Turlock 8WSW
Turlock
Turlock 5SW
Denair Barfield
Hornitos U.S.C.E.
Hornitos-Erickson
Mariposa R.S.
Del Puerto Road Camp
Hornitos-Giles
Mariposa-Reynolds
Mariposa
Cotheys Val. 3NNW
Indian Gulch
Hidden Va
Hilmar
Livingston City Hall
Cathey Val.-Sawyer
Orestimba
Livingston 8W
Castle A.F.B.
Rocky Village
Cathey Val. Stoneho
Cathey Val Bull Run
Newman 2NW
Atwater-Craig
White Rock Preston
Raymond 10N
Merced 2
Fancher Rch. Camp 3
Raymond 12R
Le Grand 6N
Merced Fire Sta. 2
Merced-Fancher Rch.
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Le Grand
Raymond 3SS
Pacheco Pass
Della Rch
San Luis Canal Co. HQ
San Luis Dam
Las Banos
Las Banos Field Sta.
Dalton
CLARA
8
7
6
5
4
3
B
E R C E D
M A D E R


LEGEND
PRECIPITATION ONLY
PRECIPITATION AND TEMPERATURE
PRECIPITATION , TEMPERATURE AND EVAPORATION
TYPE OF GAGE
NON RECORDING
RECORDING
BOTH TYPES
STORAGE
DISTRICT BOUNDARY
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
KEY TO SHEETS
1
2
3
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1969
CLIMATOLOGICAL OBSERVATION STATIONS
SCALE OF MILES
8 0 8 16 24
Highland Lakes
Grace Meadow
Huckleberry
Paradise Meadow
Beehive Meadow
Hetch Hetchy
Tuolumne Meadows
Snow Flat
Yosemite Nat. Park
Badger Pass
Ostrander Lake
Wawona R.S.
So. Entrance Yosemite
Clover Meadows G.S.
Chiquita Creek
Westfall R.S.
Mariposa BESE
Ahwahnee 2NNW
Vermillion Valley
Mammoth Pool
Oakhurst
Crane Valley P.H.
Coarsegold
Kaiser Meadow
Mt. Given
Rose Marie Meadow
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek 8
Big Creek 3
San Joaquin Exp. Range
Auberry INNE
Meadow Lake
Summit Meadow
Friant-Shillwell
MONO
MADERA
FRESNO
MARIPOSA
3
4
5
6
7
1


Del Puerto Road Camp
Hilmar
Livingston City Hall
Livingston 5W
Castle A.F.B.
Orestimba
Newman 2NW
Alwater-Craig
Merced 2
Merced Fire Sta. 2
Indian Gulch
Catheys Val.-Sawyer
Catheys Val.-Stonehouse
Hidden Val
Catheys Val.-Bull Run Rch
Rocky Village
Raymond ION
Raymond
White Rock Preston
Fancher Rch.-Camp 3
Le Grand 6N
Merced-Fancher Rch.
Le Grand
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Raymond 3SSW
Delta Rch.
San Luis Canal Co. HDQ
Pacheco Pass
San Luis Dam
Los Banos
Los Banos Field Sta.
Los Banos 5S
Los Banos Det. Res.
Dos Palos Canal Co. HDQ
South Dos Palos
Dalton
San Joaquin Exp.
Madera
Madero I.D. Yard
Los Banos Arburua
Panoche Water Dist.
Firebaugh 9W
Pfeiffer Rch
Little Panoche Det. Dam
Mendota VDL Forms
Mendota Dam
Mendota INNW
Mercy Hot Springs
PANOCHE HILLS
Coit Rch. HDQ
Mendota Murietta Rch.
Tranquility-Glotz
San Joaquin
San Joaquin MVFD
Panoche 2W
Panoche
Caruthers 4E
Cantua Rch.
Soledad
Idria
Riverdale
Five Points Diener
Five Points 5SSW
Martinez Spring
Domengine Rch.
Domengine Springs
Thirty-Two Corral
Oilfield Joaquin RDG
Coalinga 14WNW
Oilfield F.S.
Huron Rch.
Westhaven
King City
Greenfield
PLEASANT VALLEY
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga ISE
Chica Rancho
Coalinga Roberts Rch.
Kettleman Sta.
Kettleman Hills
Tulare Dist.
Parkfield 7NNW
Avenal
Kettleman City
Avenal 8SW
Avenal 6SSW
Corcoran El Rica Sec 33
Wilbur Ditch
SAN BENITO
MONTEREY
FRESNO
KERN
MERCED
MADERA
KINGS
TULARE
SAN JOAQUIN
6
7
8

Vermillion Valley
Mammoth Pool
Kaiser Meadow
Mt. Given
Rose Marie Meadow
Crane Valley PH
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek PH 8
Big Creek PH 3
Summit Meadow
Auberry INNE
Meadow Lake
Dusy Bench
Upper Woodchuck Meadow
Bretz Mill
Soap Root Saddle
Wishon Lake
Rattlesnake Creek
Haslett Basin
Blasingame
Lower Big Creek
Balch PH
State Lakes
Academy
Trimmer R.S.
Pine Flat Dam
Barton Flat
Fresno WB AP
Sanger R.S.
Sanger HS
Squaw Valley Fr.
Grant Grove
Mitchell Meadow
Vidette Meadow
Pinehurst
Whitaker Forest
Moraine Creek
Beartrap Meadow
Miramonte Honor Camp
Orange Cove
Reedley MVFD
Bodger
Lodge Pole
Pear Lake
Giant Forest
Crabtree Meadow
Dinuba Alta I.D.
Chagoopa
Ash Mountain
Kaweah PH 3
Three Rivers PH 2
Three Rivers PH 1
Atwell
Mineral King
Ivanhoe I.D.
Terminus Dam
Lemon Cove
Three Rivers GSE
Hackett Meadows
Tunnel R.S.
Hanford
Hanford Well 21
Visalia
Visalia 4E
Exeter Fauver
Wet Meadow
Rector
Milo 5NE
Mountain Home 2
Manoche Meadows
Tulare
Lindsay
Springville Tule HDW
Hossack Radio
Springville 7ENE
Tule River Intake
Camp Nelson
Springville R.S.
Tule River PH
Rogers Camp
Quaking Aspen
Corcoran I.D.
Porterville 3W
Porterville
Stevenson Dist. Sec 33
Success Dam
Corcoran El Rico I
Eagle Creek
Johnsondale
Angiola
Doublebunk Meadow
Round Meadow
Homeland Dist. Sec 9
South Lake Farms HDQ
Kern R 3 Intake SCE
Homeland Dist Sec 34
Uhl Ranger Station
Earlimart
Pixley
Delano
Lindsay
Strathmore
Porterville
Visalia
Exeter
Tulare
Hanford
Selma
Reedley
Dinuba
Orange Cove
Sanger
Fresno
Kings
Tulare
Kern
Inyo
Mono
Madera
Fresno
Bishop
Lone Pine
Independence
Shaver
Camp Sabrina
Round Mtn
Zurich
Bigpine
Tinemaha Res
Pleasant Valley
Round Valley
Mt Morgan
Mt Tom
Mt Hilgard
Mt Humphreys
Mt Tyndall
Mt Williamson
Mt Whitney
Mt Langley
Mt Pickering
Mt Gabb
Mt Ritter
Mt Lyell
Mt Dana
Mt Conness
Mt Hoover
Mt Lola
Mt Shasta
Mt Lassen
Mt Tallac
Mt Rainier
Mt Adams
Mt Hood
Mt Jefferson
Mt Shuksan
Mt Baker
Mt Olympus
Mt Ashland
Mt Pinchot


Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga 1SE
Chico Rancho
Kettleman Sta.
Tulare Dist. Sec.
Coalinga Robert Rch.
Kettleman Hills
Parkfield 7NNW
Kettleman City
Avenal 8SW
Corcoran El Rico Sec 33
Avenal 6SSW
Wilbur Dite
West Camp SLF
Avenal Orchard Rch.
Devils Den SLF
Annette
Lost Hills
Chalame-Twisselman
Blackwells Corner 2WNW
North Belridge
South Belrid
S A N L U I S O B I S P O
Morro Bay
San Luis Obispo
Pismo Beach
Arroyo Grande
Santa Maria
S A N T A B A R B A

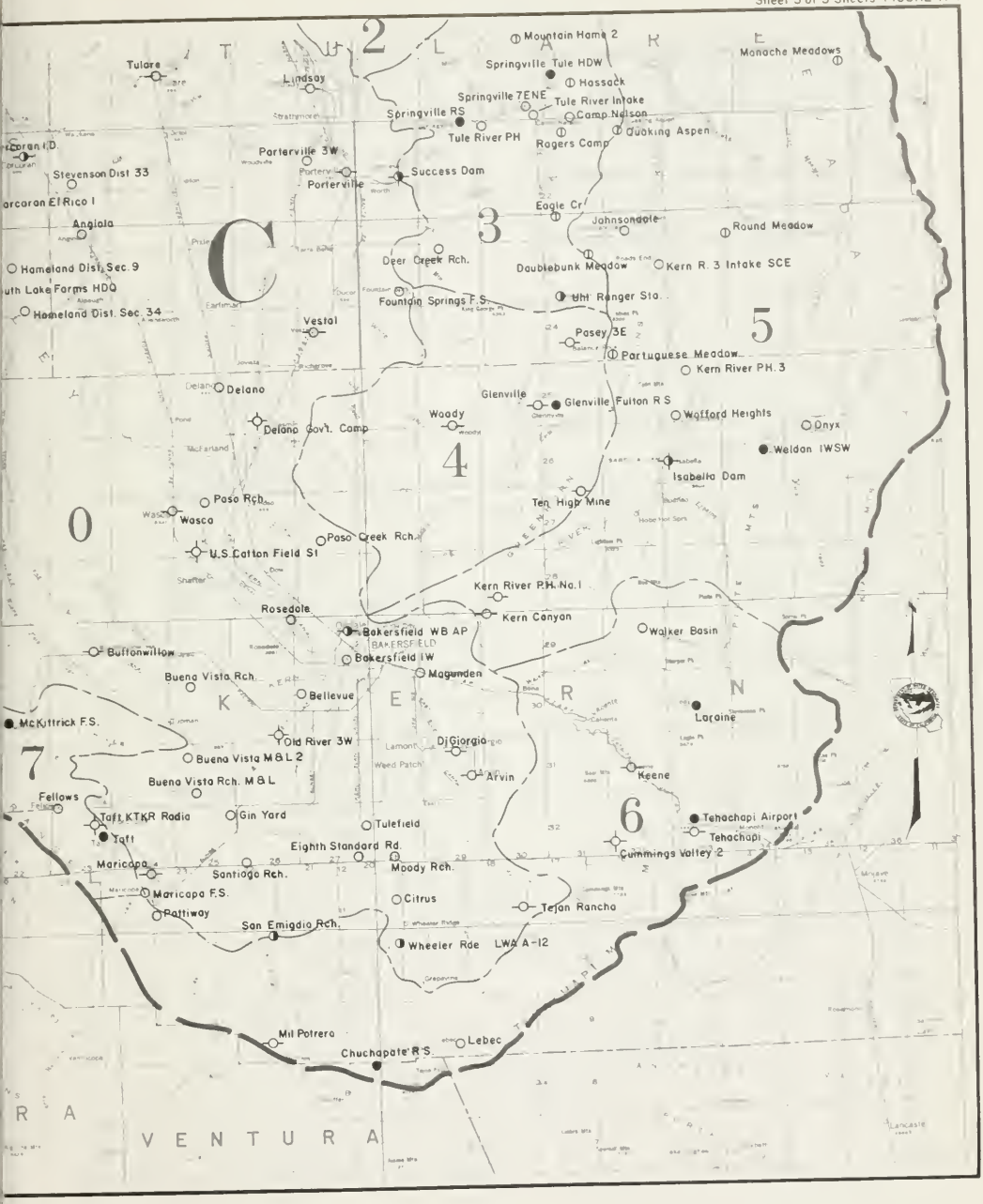

Mountain Home 2
Springville Tule HDW
Hassock
Springville 7ENE
Tule River Intake
Camp Nelson
Springville RS
Tule River PH
Rogers Camp
Quaking Aspen
Monache Meadows
Tulare
Lindsay
Porterville 3W
Porterville
Success Dam
Stevenson Dist 33
Eagle Cr
Johnsondale
Round Meadow
Angiola
Deer Creek Rch.
Doublebunk Meadow
Kern R. 3 Intake SCE
Homeland Dist. Sec. 9
Fountain Springs F.S.
UHI Ranger Sta.
Homeland Dist. Sec. 34
Vestal
Pasey 3E
Portuguese Meadow
Kern River PH. 3
Delano
Glenville
Glenville Fulton R S
Woody
Wofford Heights
Delano Gov't. Camp
Onyx
Weldon IWSW
Isabella Dam
Paso Rch.
Ten High Mine
Wasco
Paso Creek Rch.
U.S. Cotton Field S1
Kern River P.H. No. 1
Rosedale
Kern Canyon
Bakersfield WB AP
BAKERSFIELD
Walker Basin
Buttonwillow
Bakersfield IW
Magunden
Buena Vista Rch.
Bellevue
Laraine
McKittrick F.S.
Old River 3W
DiGiorgio
Lamont
Weed Patch
Buena Vista M&L 2
Buena Vista Rch. M&L
Arvin
Keene
Fellows
Taft KTKR Radio
Gin Yard
Tulefield
Tehachapi Airport
Tehachapi
Taft
Eighth Standard Rd.
Cummings Valley 2
Maricopa
Santiago Rch.
Moody Rch.
Maricopa F.S.
Citrus
Tejon Rancho
Rattlway
San Emigdio Rch.
Wheeler Rde
LWA A-12
Mil Potrero
Lebec
Chuchapate R S
VENTURA
2
3
4
5
6
7

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

000 - Private Cooperators

001 - 399 Private Agencies

- 001 Kern County Land Company
- 002 Boswell Company
- 003 P. G. and E. Company
- 004 Southern California Edison Company
- 005 California Electric Power Company
- 010 Amateur Radio Weather Network KTRB
- 011 Southern Pacific Company
- 012 Miller and Lux, Inc.
- 013 Central California Irrigation District

400 - 799 Counties and municipalities

- 401 Hetch Hetchy Water Supply
- 404 Oakdale Irrigation District
- 405 City of Los Angeles, Department of Water & Power
- 420 Stanislaus County

800 - 899 State

- 801 Pomology Department, University of California, Davis
- 804 Division of Beaches and Parks
- 805 State Department of Fish and Game
- 806 Department of Water Resources
- 808 Division of Forestry
- 809 Division of Highways

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	U. S. Weather Bureau
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	U. S. Weather Bureau (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the U. S. Weather Bureau stations are the same as those used by the Weather Bureau. The U. S. Weather Bureau station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C1 0009	ACADEMY	54[illegible]	SEC 14	T12S	R22E	P	M 36 52 58	119 32 25	000			19[illegible]			1[illegible]
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E		M 37 23 22	119 44 [illegible]	907			1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M 35 59 25	119 28 42	900			1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E	M 38 04 20	120 32 18	003			190[illegible]			[illegible]5
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M 35 38 48	120 10 12	000			1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E		M 35 12 0[illegible]	118 49 [illegible]	000			1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M 36 29 30	118 49 35	90[illegible]			1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E		M 37 21	120 37	000			1961			24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E		M 36 28 0[illegible]	118 40 00	900			1948			54
B7 0379	AUBERRY 1 NNE	2010	SEC 06	T10S	R23E	H	M 37 05 3[illegible]	119 29 50	900			1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M 35 48 23	120 05 18	000			1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	M 35 57 33	120 13 25	000			1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M 35 55 30	120 10 05	000			1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M 36 37 53	119 00 46	900			1940			54
B5 0425	BADGER PASS	7300	SEC 22	T03S	R21E		M 37 40 00	119 40 00	90[illegible]			1941			22
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M 35 22 41	119 02 17	900			1913			15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M 35 25 38	119 02 34	900			1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	M 36 54 33	119 05 15	900			1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E		M 36 49	118 53	900			1961			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	M 38 27 45	120 02 30	000			1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E		M 37 34	120 07	903			1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E		M 38 12 12	120 04 30	404			1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E		M 36 41 00	118 52 00	900			1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E		M 38 00 00	119 47 00	900			1947			55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M 35 20 11	119 05 27	001			1961			15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	M 36 41 05	119 01 50	000			1967			10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M 37 12 15	119 14 20	900			1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M 37 11 59	119 18 19	004			1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M 37 08 54	119 23 00	004			1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M 37 12 00	119 20 00	004			1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	M 35 37 15	119 53 40	900			1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E		M 36 57 37	119 26 45	808			1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M 37 02 18	119 14 24	905			1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M 35 21 00	119 19 00	001			1944			15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M 35 11 42	119 11 43	002			1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M 35 14 25	119 18 23	002			1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	M 35 24 00	119 28 00	900			1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M 38 11 50	120 21 55	900			1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	M 36 08 17	118 37 36	000			1959			54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	M 36 28 35	120 23 20	000			1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	M 36 32 48	119 45 30	000			1960			10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M 37 22 03	120 34 20	902			1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 24	T06S	R17E	H	M 37 23 56	120 03 08	900			1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M 37 28 33	120 06 33	000			1957			22
B6 1590	CATHEYS VALLEY SAWYER	1275	SEC 10	T06S	R17E	C	M 37 25 53	120 05 40	000			1957	1969		22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	M 37 24 30	120 05 00	000			1951			22
C5 1647	CHAGOOPA	10390		T16S	R33E		M 36 30	118 27	901			1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M 37 58 00	119 55 00	900			1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	M 36 05 13	120 29 22	000			1969			10
B7 1737	CHIQUITO CREEK	7290	SEC 07	T05S	R24E	N	M 37 30 20	119 23 21				1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R	M 35 35 00	120 07 00	000			1951			40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W		S 34 48 00	119 01 00	900			1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S 35 02 18	118 58 28	001			1963			15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E		M 37 32	119 17	900			1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	M 36 [illegible]9 00	120 21 00	900			1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M 36 02 18	120 26 40	000			1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	M 36 07 39	120 20 38	900			1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E		M 36 14 00	120 34 00	900			1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	M 36 08 03	120 22 00	808			1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E		M 37 16 00	119 42 00	907			1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M 36 42 20	120 28 25	000			1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	M 38 02 22	120 24 37	000			1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	M 37 59 00	120 38 00	903			1954		3	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M 36 [illegible]5 53	119 34 51	900			1912			16
C0 2013	CORCORAN EL RICO 1	205	SEC 23	T21S	R22E	H	M 36 05 22	119 33 20	002			1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M 35 57 49	119 42 14	002			1951			16
B[illegible] 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M 37 43 25	120 12 12	808			1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E		M 36 34 00	118 21 00	900			1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	M 37 17 26	119 31 35	003			1903			2[illegible]
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M 35 07	118 35	806			1961			15

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Begun	Record Ended	Years Missing	County Code
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37	07	18	119	59	00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	M	35	57	15	118	51	28	000		1968			54
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876			15
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E		M	37	07	00	120	44	00	013		1949		01	24
B0 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E		M	37	34		120	47		900		1964			50
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965			24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000		1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000		1937			15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000		1944			54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000		1959			10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000		1958			10
B4 2473	DDN PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940			55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E		M	35	57	00	118	36	00	900		1955			54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900		1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E		M	37	06		118	35		901		1964			10
C3 2591	EAGLE CREEK	6650		T22S	R31E		M	35	59		118	39		903		1964			54
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401		1925			55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E		M	35	06	05	119	01	45	001		1963			15
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953			50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944			39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935			22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934			10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942			10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940			10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965			54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899			10
C0 3258-80	FRESNO CO WESTWIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963			10
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900		1896			10
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000		1965			20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900		1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960			15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951			15
C4 3465	GLENNVILLE FULTON RS	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E		M	38	09	00	119	36	00	900		1947			55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924			54
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965			22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900		1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930			24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928			24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899			16
C0 3749	HANFORD WELL #21	240	SEC 26	T18S	R21E	Q	M	36	20		119	40		000		1964			16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910			55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949			22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900		1960			02
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000		1948			24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E		M	36	22	00	118	39	00	900		1959			54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E		M	37	48		119	52		907		1967			55
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952			16
C0 4061-03	HOMELAND DIST SEC 34	196	SEC 34	T23S	R22E	R	M	35	53	43	119	34	24	002		1951	1969		16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000		1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000		1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901		1960			22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E		M	36	11	00	118	37	00	900		1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E		M	38	06	00	119	45	00	900		1948			55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950			05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915			10
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E		M	36	15	41	120	06	05	000		1951			10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918			35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952			22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	46	118	28	45	903		1949			15

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36 24 15	119 12 21	000		1954			54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E		M	37 32 36	119 50	905		1958			22
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35 58 13	118 32 27	900		1954			54
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E		M	37 18 00	119 06 00	900		1946			10
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q	M	36 29 12	118 50 06	004		1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M	35 13 28	118 33 55	000		1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M	35 26 27	118 47 45	003		1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M	35 56 43	118 28 33	004		1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M	35 27 37	118 46 48	900		1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M	35 46 35	118 26 08	900		1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C	M	35 59 45	119 57 55	900		1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	M	36 01 50	120 06 15	000		1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M	36 04 28	120 05 08	900		1933			16
B0 4590	KNIGHTS FERRY 2 ESE	315	SEC 27	T01S	R12E		M	37 47 54	120 38 42	900		1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M	38 28 42	120 00 48	900		1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M	37 58 00	119 53 00	900		1909			55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P	S	34 49 58	118 51 51	900		1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M	37 13 50	120 14 50	900		1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M	37 18 39	120 15 05	000		1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M	36 23 00	119 01 31	900		1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M	36 11 24	119 04 20	900		1913			54
B8 4979	LITTLE PANOCHE DET DAM	677	SEC 20	T13S	R11E		M	36 47	120 48	900		1968			10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M	37 23 10	120 43 15	000		1948		07	24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M	37 22 29	120 47 40	000		1952			24
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E		M	36 36	118 14	900		1968			54
C6 5098	LORAINE	2720	SEC 21	T30S	R33E	K	M	35 18 05	118 25 54	900		1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M	36 59 02	120 50 45	013		1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M	37 00 54	120 53 55	904		1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M	37 03 00	120 51 00	900		1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M	36 52 52	120 56 25	900		1932			24
B8 5120	LOS BANOS CR DET RES	407	SEC 12	T11S	R09E		M	37 01	120 56	900		1968			24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M	35 37 00	119 41 17	900		1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M	36 54 48	119 14 42	905		1960			10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E		M	38 01 00	119 53 00	900		1948			55
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M	36 55 15	120 01 12	904		1952			20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P	M	36 58	120 03	900		1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M	35 21 42	118 55 18	004		1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M	37 20 31	119 19 45	905		1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	M	37 47	121 12	900		1964			39
C0 5338	MARICOPA	680	SEC 31	T12N	R23W	N	S	35 04 48	119 22 58	900		1911			15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	S	35 04	119 24	000		1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M	37 29 10	119 58 00	900		1909			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M	37 29 20	119 57 55	000		1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M	37 26 30	119 49 37	000		1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F	M	37 30 04	119 59 05	808		1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M	36 20 24	120 24 54	000		1959			10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M	37 53 25	119 51 10	900		1930		21	55
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H	M	37 43 18	120 05 48	000		1959			22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E	M	35 18 20	119 37 20	000		1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M	37 04 38	119 26 00	900		1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M	37 57 10	120 30 53	404		1955			55
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	M	36 46 23	120 23 09	013		1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M	M	36 39 05	120 27 20	806		1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	M	36 47 15	120 22 12	900		1873			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	M	36 44 58	120 28 00	000		1948			10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E		M	37 17 43	120 29 13	900		1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M	37 17 47	120 21 09	000		1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A	M	37 18 53	120 28 12	900		1938			24
B8 5550	MERCY HOT SPRINGS	1165	SEC 15	T14S	R10E	R	M	36 42 15	120 51 33	900		1932	1969		10
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36 16 40	118 46 15	900		1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	S	34 51 02	119 11 18	000		1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E		M	36 26 00	118 35 00	900		1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36 40 00	119 05 00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E		M	36 45 00	118 43 00	900		1957			10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37 48 40	120 18 20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37 38 48	121 00 02	900		1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M	37 40 12	120 58 42	010		1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	M	37 38 36	121 00 29	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E		M	36 13 00	118 10 00	900		1940			54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E		M	35 06 15	118 58 00	001		1963			15

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Other Number	Record Began	Record Ended	Years Missing	County Code
C1 5832	MORAINE CREEK	8840		T14S	R31E		M	36 43	118 34	903		1964			54
C3 5883	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M	36 14	30 118 42 54	901		1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M	37 17	119 06	004		1963			10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37 20 33	122 50 00	900		1889			50
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35 33 04	119 47 28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37 13 57	119 30 15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37 46 10	120 50 53	000		1880		01	50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37 19 46	119 38 42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36 14 50	120 18 50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E		M	36 18 00	120 24 00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35 16	119 16	806		1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35 41 00	118 14 00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36 37 18	119 18 40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37 21 42	121 03 47	013		1896			50
B5 6552	OSTRANDER LAKE	8600		T03S	R22E		M	37 38 00	119 33 00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37 04 00	121 11 00	900		1949			24
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36 35 47	120 49 58	900		1922			35
B8 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E		M	36 36 30	120 52 48	407		1957			35
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36 53 24	120 43 43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E		M	38 03 00	119 40 00	900		1948			55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E		M	37 28 00	121 07 00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34 56 27	119 22 52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E		M	36 36 00	118 40 00	900		1956	1969		54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36 52 59	121 08 12	000		1954			24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E		M	38 12	119 59	905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38 11 25	119 59 12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36 49 55	119 19 25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36 41 54	119 00 54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36 03 58	119 01 14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36 04 50	119 04 14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E		M	35 48 00	118 34 00	900		1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E		M	35 48 00	118 38 00	900		1954		02	54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F	M	35 33 15	119 04 25	000		1967			15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35 36 30	119 15 45	001		1913			15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36 58 57	120 30 04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E		M	36 07 00	118 32 00	900		1955			54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E		M	36 59 00	118 43 00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37 10 32	119 55 55	000		1940			20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37 22 24	119 54 24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37 22 37	119 49 58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36 18 15	119 14 34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E		M	36 37	119 27	808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E		M	37 44 33	121 07 21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36 25 58	119 51 36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37 20 45	120 08 42	000		1957			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E		M	36 04 24	118 38 12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35 25 40	119 07 42	001		1914			15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E		M	37 19 00	118 52 00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E		M	35 58 00	118 21 00	900		1947			54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E		M	38 06 00	119 51 00	900		1948			55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34 59 45	119 10 59	900		1901			15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36 43 30	119 32 36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36 43 48	119 33 18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36 36 25	120 11 15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37 05 40	119 43 38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36 36 28	120 11 18	808		1962			10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E		M	37 03	121 04	904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P	M	37 06 07	120 42 04	013		1944			24
C0 79B7-80	SANTIAGO RANCH M & L	437	SEC 27	T12N	R22W		S	35 05 35	119 12 35	000		1963			15
B0 8316	SNELLING	259	SEC 04	T05S	R14E		M	37 31 24	120 26 18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J	M	37 32 35	120 28 57	000		1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E		M	37 50 00	119 30 00	900		1947			22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37 01 30	119 15 06	905		1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E		M	37 59 00	120 23 00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R	M	35 27 23	119 42 37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E	M	37 57 45	120 38 48	000		1938			24
B5 83B0	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37 30 26	119 37 55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35 56 02	119 38 46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H	M	38 10 06	120 06 08	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36 09 47	118 42 21	900		1953			54

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (in feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36 08 [illegible]	118 48 40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36 1[illegible] 26	118 39 23	900		19[illegible]7			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P	M	36 44 [illegible]6	119 12 21	808		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38 08 23	120 22 1[illegible]	900		1957			55
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E		M	36 56 0[illegible]	118 3[illegible] 0[illegible]	90[illegible]		1955			10
C0 8520	STEVENSON DIST SC 33	212	SEC 33	T21S	R23E	K	M	36 03 27	119 29 17	002		1951	1969		54
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36 [illegible]3 [illegible]6	118 [illegible]5 [illegible]6	903		1959			54
C1 8643	SUMMIT MEADOW	6240	SEC [illegible]2	T10S	R25E	Q	M	37 05 12	119 12 36	[illegible]		196[illegible]			10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35 08 34	119 27 53	000		1940			15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35 08 50	119 28 18	[illegible]00		1954			15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35 08 [illegible]	118 27 [illegible]	9[illegible]0		1876			15
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	M	35 08 05	118 26 31	900		194[illegible]			15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	S	35 0[illegible] 35	118 44 38	900		1895			15
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	M	35 36 49	118 37 30	000		1968			15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36 24 37	119 00 20	903		1959			54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36 18 47	120 21 51	000		1959			10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	M	36 22 00	118 51 [illegible]0	900		194[illegible]			54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36 27 40	118 52 40	900		1909			54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36 27 58	118 51 40	900		1940			54
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	M	36 37 57	120 14 13	000		1953			10
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	M	37 29 10	119 49 06	000		1965			22
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36 54 05	119 17 16	905		1948			10
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36 12 45	119 19 50	004		1919			54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	M	36 04 41	119 47 33	002		1953			16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35 09 00	119 01 00	900		1948			15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36 09 42	118 42 22	004		1910			54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36 08 07	118 47 15	004		191[illegible]			54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E		M	36 22 00	118 17 [illegible]0	900		1945			54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37 52 30	120 36 12	404		1958			05
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	M	37 57 55	120 13 55	000		1969			55
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E		M	37 53 00	119 20 [illegible]0	900		1947			55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37 29 28	120 51 00	900		1893			50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37 27 52	120 54 39	000		1958			50
B0 9073-02	TURLOCK 8 WSW	65	SEC 22	T05S	R09E	L	M	37 28 20	120 58 00	000		1958			50
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35 53	118 39	900		1965			54
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35 32 00	119 16 40	906		1922			15
C1 9191-05	UPPER WOODCHUCK	9200	SEC 27	T10S	R28E		M	37 02	118 54	90[illegible]		1958	1969		10
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E		M	37 22 00	118 59 [illegible]0	900		1946			10
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	M	35 50 24	119 05 12	004		1920			54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E		M	36 45	118 25	901		1964			10
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	M	36 19 45	119 17 18	900		1903			54
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	M	36 19 32	119 13 24	000		1959			54
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	M	35 25 17	118 32 35	000		1968			15
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	M	35 35 35	119 19 57	900		1899			15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	M	37 32	119 40	900		1941			22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	M	35 40 [illegible]0	118 18 [illegible]0	900		1940			15
C0 9535	WEST CAMP SLF	290	SEC 11	T24S	R19E	R	M	35 50 51	119 52 43	000		1959	1968		16
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37 26 58	119 38 59	905		1961			20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36 13 38	119 59 40	900		1925			10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37 33 00	121 12 [illegible]0	000		1928			50
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	M	36 20 56	118 34 16	900		1959			54
C0 9614-81	WHEELER RDE LWU A-12	1230	SEC 01	T10N	R20W	G	S	34 58 38	118 57 25	806		1963			15
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	M	36 42 05	118 55 56	815		1966			[illegible]4
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	M	37 20 12	120 02 18	903		1950			22
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	M	35 36 1[illegible]	119 45 10	000		1962			16
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E		M	37 [illegible] 40	118 58 20	003		1957			10
C5 9754	WOFFORD HEIGHTS	270[illegible]	SEC 32	T25S	R33E	H	M	35 43 00	118 27 0[illegible]	900		1894			15
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35 42 02	118 50 34	808		1956			15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E		M	37 45 00	119 35 00	900		1904			22

TABLE A-2

PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

-	No record or record incomplete.
*	Amount included in the following measurement. Time distribution unknown.
E	Wholly or partially estimated.
T	Trace, an amount too small to measure.
V	Includes total from previous month.
RB	Record begins.
RE	Record ends.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fischer & Porter recording rain gages are used, these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY TO JUNE 30	1968						1969									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
SAN JOAQUIN R BASIN																	
SAN JOAQUIN VAL FL B0																	
ATWATER CRAIG	22.43	[illegible]	T	[illegible]	[illegible].90	2.97	3.21	[illegible].34	5.13	[illegible].97	1.91	[illegible].02	[illegible]	[illegible].04	[illegible]	[illegible].22	22.69
CASTLE AFB	21.31	[illegible]	T	[illegible]	[illegible].72	2.76	2.69	8.08	4.24	[illegible]	1.59	T	[illegible].32	T	[illegible]	[illegible].24	21.55
DELTA RCH	16.64	[illegible]	0.00	[illegible]	0.59	1.97	2.85	5.62	4.38	[illegible].30	1.13	[illegible]	[illegible].40	0.00	[illegible]	[illegible].45	17.29
DENAIR 3 NNE	21.8[illegible]	[illegible]	T	0.00	0.79	3.26	3.26	6.61	[illegible].55	[illegible].86	1.43	[illegible]	[illegible].04	T	[illegible]	[illegible].35	22.15
DENAIR BARFIELD	18.[illegible]4	[illegible]	T	0.00	1.[illegible]0	2.91	2.44	5.70	4.49	0.67	1.47	0.00	[illegible].06	0.00	0.00	[illegible].35	19.09
EL SOLYO RCH	14.59	[illegible]	0.65	0.00	0.60	2.97	2.01	2.84	3.92	0.86	0.74	0.00	T	0.00	0.00	[illegible].37	14.31
ESCALON SWANSON	19.02	[illegible]	0.02	0.00	0.68	2.90	3.16	4.59	5.50	0.56	1.61	T	0.00	0.00	0.00	[illegible].32	19.32
FANCHER RCH CAMP 3	21.92	[illegible]	0.01	0.00	1.35	2.87	3.16	6.21	4.18	1.45	2.69	0.00	0.00	0.06	0.00	[illegible].13	22.10
FIREBAUGH 9 W	-	0.00	0.00	0.00	0.57	0.48	1.56	-	-	-	-	-	-	-	-	-	-
GUSTINE 5 SW	16.75	[illegible].01	0.01	0.00	0.33	1.76	2.17	5.88	5.07	0.60	0.91	0.00	0.01	0.00	0.00	0.63	17.36
GUSTINE SNYDER	17.27E	0.00E	0.00E	0.00E	0.41	1.67	2.33	6.49	5.48	0.00	0.79	0.00	0.03	0.00	0.00	[illegible].85	18.12
GUSTINE FOREMOST	19.17	0.00	0.00	0.00	0.53	1.91	2.71	6.22	6.46	0.10	1.20	0.00	0.04	0.00	0.00	2.92	20.09
GUSTINE 7 SSW	17.95	0.00	T	0.00	0.40	1.72	2.31	6.90	5.71	0.08	0.82	0.00	0.01	0.00	0.00	0.54	18.49
HILMAR	18.52	0.00	T	0.00	0.74	2.67	2.44	5.56	5.15	0.80	1.12	0.00	0.04E	0.00	0.00	0.43	18.95
KNIGHTS FERRY 2 ESE	29.36	T	T	0.00	1.46	4.16	3.72	9.70	6.94	1.62	1.76	0.00	0.00	T	0.00	0.16	29.52
LE GRAND	22.83	[illegible].00	0.04	0.00	1.31	2.48	3.25	7.03	5.11	1.50	2.11	0.00	T	0.03	0.00	0.11	22.93
LE GRAND 6 N	22.47	0.00	0.00	0.00	1.30	2.42	3.27	7.10	5.18	0.97	2.23	0.00	0.00	0.05	0.00	0.00	22.52
LIVINGSTON CITY HALL	19.95	0.00	T	0.00	0.68	2.60	3.01	6.22	5.43	0.41	1.49	0.00	0.11	T	0.00	0.27	20.22
LIVINGSTON 5 W	17.83	0.00	0.01	0.00	0.60	2.18	2.76	5.10	4.99	0.52	1.53	0.00	0.14	0.00	0.00	0.37	18.19
LOS BANOS 5 S	13.40E	[illegible].00	0.00	0.00	0.43	1.62	1.74	5.04	3.76	0.13	0.68E	0.00	0.00	0.00	0.00	1.78	15.18E
LOS BANOS FIELD STA	15.65	0.00	T	0.00	0.45	1.54	1.83	6.61	4.20	0.25	0.77	0.00	T	0.00	0.00	1.68	17.33
LOS BANOS	14.04	0.00	T	0.00	0.48	1.65	1.87	4.68	4.19	0.40	0.77	0.00	0.00	0.00	0.00	1.49	15.53
MADERA 10 YARD	18.96	0.00	0.00	0.00	1.25	2.31	2.69	5.57	4.00	1.47	1.59	0.08	0.00	0.03	0.00	0.17	19.16
MADERA	20.17	0.00	0.03	0.00	1.22	2.26	3.24	5.69	4.37	1.60	1.74	0.02	0.00	0.07	T	0.13	20.34
MENDOTA 1 NNW	13.05	0.00	0.05	0.00	0.83	1.60	1.49	4.00	3.22	0.77	0.91	0.00	0.18	0.06	0.00	0.10	13.16
MENDOTA DAM	13.98	0.00	0.04	0.00	0.87	1.67	1.66	4.36	3.47	0.79	1.07	T	0.05	0.03	0.00	0.18	14.15
MENDOTA VDL FARMS	11.53	0.00	0.00	0.00	0.89	1.71	1.03	3.29	3.05	0.59	0.97	0.00	0.00	0.00	0.00	0.17	11.70
MERCED FIRE STN 2	21.90	0.00	T	0.00	0.92	3.08	3.12	7.07	4.74	0.89	2.08	0.00	0.00	0.07	0.00	0.00	21.97
MERCED FANCHER RCH	21.11	0.00	T	0.00	1.29	2.70	2.99	5.92	3.96	1.42	2.83	T	0.00	0.12	0.00	0.09	21.32
MERCED 2	20.25	0.00	0.03	0.00	0.87	3.05	3.00	6.00	4.55	0.65	2.10	0.00	0.00	0.04	0.00	0.08	20.34
MODESTO	18.33	0.00	T	0.00	0.88	3.38	3.06	4.26	4.75	0.56	1.44	0.00	T	T	0.00	0.43	18.76
MODESTO KTRB	19.32	0.00	0.01	0.00	0.93	2.61	3.07	5.82	4.28	0.88	1.72	0.00	T	0.00	0.00	0.36	19.67
MODESTO 2	17.16	0.00	0.02	0.00	0.70	3.21	2.91	4.15	4.42	0.42	1.33	0.00	0.00	0.00	0.00	0.35	17.49
NEWMAN 2 NW	18.19	0.00	T	0.00	0.56	2.00	2.23	5.95	6.11	0.18	1.16	0.00	0.00	0.00	0.00	0.65	18.84
OAKDALE	22.26	0.00	0.00	0.00	1.09	3.39	3.30	5.99	5.46	1.55	1.48	0.00	0.00	0.00	0.00	0.27	22.53
ORESTIMBA	16.72	0.00	0.00	0.00	0.51	1.81	2.01	5.63	5.12	0.64	1.00	0.00	0.00	0.00	0.00	0.63	17.35
PANOCHE WATER DIST	11.00	0.00	0.03	0.00	0.47	1.77	1.34	3.20	3.32	0.12	0.75	0.00	0.00	0.00	0.00	0.29	11.26
PATTERSON	16.74E	0.00E	0.00E	0.00E	0.63	2.18	1.78	5.18	5.02	0.87	1.08	0.00	0.00	0.00	0.00	0.29	17.03
POSO CANAL CO HDQ	15.50	0.00	0.00	0.00	0.66	2.52	2.28	4.21	3.71	0.86	1.26	0.00	0.00	0.00	0.00	0.21	15.71
RIPON	18.10	0.00	0.07	0.00	0.58	2.78	3.56	4.01	4.62	1.11	1.35	T	0.02	0.00	0.00	0.50	18.53
SAN LUIS CANAL CO HQ	17.59	0.00	0.00	0.00	0.74	2.58	2.67	5.74	4.58	0.32	0.96	0.00	0.00	0.00	0.00	0.43	18.02
SNELLING	25.83	0.00	0.03	0.00	1.24	3.29	2.70	8.02	6.21	1.72	2.59	0.01	0.02	0.19	0.00	0.20	26.19
SNELLING 3 WNW	21.72	0.00	0.00	0.00	1.03	2.90	2.56	6.28	5.33	1.83	1.79	0.00	0.00	0.22	0.00	0.06	22.00
SNOW RANCH	25.21	0.00	0.00	0.00	1.06	3.63	3.65	7.44	5.73	1.91	1.79	0.00	0.00	0.00	0.00	0.15	25.36
SOUTH DOS PALOS	13.95	0.00	0.18	0.00	0.55	2.10	2.09	4.03	3.44	0.33	1.21	0.00	0.02	0.00	0.00	0.29	14.06
TURLOCK	20.25	0.00	0.02	0.00	0.83	2.89	2.93	5.96	5.55	0.74	1.33	0.00	T	T	0.00	0.51	20.74
TURLOCK 5 SW	27.66E	0.00E	T	0.00E	0.91	3.25	2.85	8.95	8.70	1.35	1.65	0.00	0.00	0.00	0.00	0.50	28.16
TURLOCK 8 WSW	18.13	0.00	0.00	0.00	0.64	2.58	2.77	5.01	5.08	0.85	1.20	0.00	0.00	0.00	0.00	0.39	18.52
WESTLEY	14.48	0.00	0.00	0.00	0.43	2.55	1.59	4.03	3.99	0.93	0.96	0.00	0.00	0.00	0.00	0.31	14.79
STANISLAUS RIVER B3																	
ANGELS CAMP	49.34	0.00	0.13	0.00	1.62	5.21	6.95	19.30	10.05	2.75	3.17	0.00	0.16	0.00	0.00	0.11	49.32
BEARDSLEY DAM	51.04	0.10	0.65	0.00	2.12	6.22	8.28	19.45	8.35	1.88	3.39	0.21	0.39	0.00	0.00	0.55	50.84
BEAR VALLEY-ALPINE	-	0.25E	2.08	0.04	4.23	7.76	-	-	-	-	-	-	1.40	0.50	0.00	0.62	-
CALAVERAS RANGER STA	72.06E	0.19	1.00	0.00	2.89	7.69	10.02	28.18	13.48	3.51E	4.73	0.00	0.37	0.00	0.00	0.66	71.53E
COLUMBIA											RB	0.00	0.05E	0.00	0.00	0.26	-
COPPEROPOLIS	37.63E	0.00E	T E	0.10E	1.24	4.79E	4.88E	14.13	7.52	2.22	2.65E	0.00E	0.10E	0.00E	0.00E	0.09E	37.62E
HUNTERS DAM	72.37	0.06	0.96	0.00	3.06	8.13	9.54	28.64	13.63	3.31	4.68	T	0.36	0.00	0.00	0.67	72.02
MELONES DAM	45.37	0.02	0.20	0.00	2.76	5.17	5.90	15.26	10.45	2.96	2.58	0.00	0.07	0.00E	0.00E	0.20E	45.35E
PINECREST STRAWBERRY	72.53	0.08	2.04	0.00	2.89	7.07	10.26	26.20	14.21	3.24	5.13	0.62	0.79	0.15	0.00	0.26	70.82
PINECREST SUMMIT R S	-	0.22	1.42	0.00	3.06	7.02E	9.60E		-	2.46E	-	0.11	0.37	0.00	0.00	0.33	-
SPRING GAP FOREBAY	59.91	0.07	1.12	0.00	2.21	5.21	10.88	20.25	11.33	3.31	4.61	0.25	0.67	0.00	0.00	0.36	59.08
STANISLAUS P H	51.45	0.00	0.51	0.00	2.30	3.54	7.62	19.44	11.66	2.59	3.47	0.00	0.32	0.00	0.00	0.56	51.50
TULLOCK DAM	34.26	0.00	0.05	0.00	1.10	4.15	4.12	10.96	9.20	2.43	2.23	0.00	0.02	0.00	0.00	0.07	34.28
TUOLUMNE RIVER B4																	
CHERRY VALLEY DAM	75.01E	0.00	1.20	0.00	3.04	8.05	10.03E	28.54	12.76	4.89	5.32	0.01	1.17	0.02	T	0.25	24.08
DON PEDRO RESERVOIR	32.50	0.00	0.00	0.00	1.65	4.16	3.83	11.04	6.18	2.28	3.33	T	0.03	T	0.00	0.32	32.82
EARLY INTAKE P N	53.97	0.00	0.33	0.00	2.24	5.31	8.42	18.45	9.48	4.07	4.76	0.07	0.84	0.13	T	0.18	53.95
GROVELAND 2	59.44	0.00	0.48	0.00	2.87	6.19	7.86	19.88	14.06	3.17	4.83	0.00	0.10	0.00	0.00	0.26	59.22
GROVELAND R S	60.09	0.00	0.26	0.00	2.67	4.16	7.48	24.11	11.76	4.64	4.72	0.00	0.29	0.00	0.00	0.08	59.91
HETCH HETCHY	55.87	0.12	0.41	0.00	2.64	6.09	9.18	18.73	8.93	3.17	4.42	0.55	1.63	0.01	0.01	0.05	55.41
HODGDON MEADOW	80.50	0.07	0.53	0.00	3.26	5.50	11.77	33.75	14.73	3.71	5.95	0.54	0.69	0.19	T	0.23	80.32
LAKE ELEANOR	57.98	0.11	0.65	0.00	2.30	6.94	8.70	21.2	9.9	3.4	3.80	0.10	0.88	0.00	0.00	0.10	57.32
MATHER	60.21	0.07	0.21	0.00	2.83	5.81	9.04	20.47	11.31	4.83	5.18	0.02	0.44	0.00	0.00	0.14	60.07
MOCCASIN	44.79	0.00	0.26	0.00	2.16	4.43	6.62	14.74	9.34	3.38	3.83	0.00	0.03	0.00	T	0.25	44.78
SONORA R S	47.21E	T	0.39	0.00E	2.31	5.67	6.43	17.15	9.02	3.02	3.12	[illegible].00	0.10	T	0.00	0.26	47.08
TUOLUMNE MAINT YARD											RB	0.00	0.11	0.00	0.00	0.00	-
MERCED RIVER B5																	
BEAR VALLEY	49.90E	0.00	0.00	0.00	2.36	4.03	6.27	18.83	10.01	3.46E	4.41E	0.51	0.02	0.06	0.00	0.00	49.96E
CATHEYS VALLEY 3 NNW	41.90	0.00	0.00	0.00	2.05	3.70	5.35	13.34	10.06	3.65	3.30	0.45	0.00	0.00	0.00	0.00	41.90
COULTERVILLE FFS	44.48	0.00	0.14	0.00	2.67	4.79	5.85	14.80	8.36	3.97	3.85	0.05	T	0.00	T	0.13	44.40
OUDLEYS	59.15	T	0.22	0.00	2.56	5.42	8.99	20.99	12.54	3.84	4.32	0.15	0.12	T	T	0.10	59.03
EXCHEQUER RESERVOIR	32.30	0.00	0.08	0.00	2.15	3.47	4.11	9.29	7.35	2.48	3.26	0.11	0.00	0.02	0.00	0.20	32.44
GREELEY HILL 1 N	58.67	0.00	0.22	0.00	2.60	5.82	8.51	19.76	12.26	4.11	5.16	0.11	0.12	0.00	0.00	0.12	58.57
HORNITOS ERICKSON RCH	35.55	0.00	0.04	0.00	2.05	3.61	4.31	10.16	7.56	3.14	4.11	0.55	0.00	0.02	0.00	0.00	35.51
HORNITOS GILES RCH	32.99	T	0.02	0.00	2.01	3.53	3.80	10.24	7.28	1.99	3.64	0.48	0.00	0.05	T	0.05	33.07
HORNITOS SCE	32.11E	0.00E	T E	0.00E	2.02	3.15	3.20	9.68	8.01	1.93	3.71	0.41	0.00E	0.03E	0.00E	0.02E	32.16E
INDIAN GULCH	33.82	[illegible].02	0.00	0.00	1.85	3.11	3.80	9.07	5.21	6.58	3.71	0.47	[illegible]	0.1[illegible]	0.00	[illegible]	33.90

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL OCT 1 TO JUNE 30	968						969									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MARIPOSA RANGER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MARIPOSA RANGER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MC [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] ENTRANCE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] R S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
YOSEMITE NAT PARK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FRESNO-FRONCILLA R B																	
ANHAHNEE 1 NNW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CATHEYS VAL BYLL RUN P	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CATHEYS VALLEY SAWYER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CATHEYS VAL STORHOUSE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COARSEGOLD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DAULTON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HIDDEN VALLEY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MARIPOSA 6 ESE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OAKHURST	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAYMOND 3 SSW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAYMOND 10 N	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RAYMOND 2 NNE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ROCKY VILLAGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TRIANGLE-DESMOND	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WESTFALL R S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
WHITE ROCK PRESTON	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SAN JOAQUIN RIVER BA																	
AUBERRY 1 NNE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BIG CREEK PH 1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BIG CREEK PH 2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BIG CREEK PH 3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BIG CREEK PH 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CRANE VALLEY PH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FLORENCE LAKE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FRIANT GOVERNMENT CAMP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FRIANT STILLWELL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HUNTINGTON LAKE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEADOW LAKE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MT GUYENS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NORTH FORK R S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SAN JOAQUIN EXP RGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SAN JOAQUIN VAL WESTSIDE BA																	
DEL PUERTO RD CAMP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IDRIA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LITTLE PANOCHE DET RES	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LOS BANOS ARBURGA RCH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LOS BANOS DET RES	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PACHECO PASS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PANOCHE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PANOCHE 2 W	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PFEIFFER RCH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SAN LUIS DAM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TULARE LAKE BASIN																	
TULARE LAKE VAL FLOOR																	
ANGIOLA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ARVIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AVENAL ORCHARD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BAKERSFIELD 1 W	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BAKERSFIELD WS AP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BELLEVUE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BLACKWELLS CORNER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BUENA VISTA RCH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BUENA VISTA RCH MAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BUENA VISTA RCH MAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BUTTONWILLOW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CANTUA RANCH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CARUTHERS 4 E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CITRUS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COALINGA	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COALINGA 1 SE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
COALINGA 2 NW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CUT RANCH DOC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DUNCORAN [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DUNC RAN EL PRDO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DUNCORAN EL PRDO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DELANO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DELANO GOVT CAMP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
DEVILS DEN SLF	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] ALTA [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EIGHTH STANDARD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EXETER FARMER RCH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FIVE POINTS 1 SSW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FIVE POINTS-DIENER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FOUNTAIN SPRINGS R S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FRESNO WB AP	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FRESNO WESTSIDE PD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TIN YARD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HANFORD	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1968						1969									TOTAL JULY 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
HANFORD WELL #1	16.16E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.94	[illegible]	[illegible]	[illegible]	.24	[illegible]	[illegible]	[illegible]	[illegible]
HOMELAND 01ST SEC [illegible]	-	[illegible]	[illegible]	[illegible]	.41	[illegible]	[illegible]	[illegible]	4.2[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-	[illegible]	[illegible]	[illegible]
HOMELAND 01ST SEC 34	-	0.0[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.2	RE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
HURON	16.91E	[illegible]	[illegible]	[illegible]	1.14	.97	[illegible]	1.21	4.4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IVANHOE ID	22.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
KETTLEMAN CITY	14.11	0.0[illegible]	.11	[illegible]	1.3[illegible]	[illegible]	.84	[illegible]	[illegible]	.42	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.22	[illegible]
KETTLEMAN HILLS	11.65	[illegible]	.61	[illegible]	1.31	[illegible]	.61	4.2[illegible]	[illegible]	[illegible]	.34	[illegible]	[illegible]	[illegible]	[illegible]	.08	[illegible]
KETTLEMAN STATION	14.71	[illegible]	.79	[illegible]	[illegible]	[illegible]	.92	[illegible]	4.[illegible]	.14	[illegible]	T	[illegible]	[illegible]	[illegible]	.4	[illegible]
LINDSAY	22.69	0.0[illegible]	.00	[illegible]	1.71	1.21	2.50	7.[illegible]	6.[illegible]	.74	2.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	[illegible]
LOST HILLS	13.62E	0.[illegible]	[illegible]	[illegible]	1.3[illegible]	.8.	0.31	[illegible] .4E	3.[illegible]	.21	.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAGUNDEN	10.56E	0.0[illegible]	[illegible]	[illegible]	1.30	.49	0.70	2.1[illegible]	3.3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]
MARICOPA	10.43	0.00	[illegible]	0.0[illegible]	1.44	.13	.67	2.	4.21	[illegible]	[illegible]	.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MENDOTA MURIETTA RCH	11.[illegible]	[illegible]	[illegible]	[illegible]	0.98	1.0[illegible]	1.2[illegible]	[illegible]	3.1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	.2[illegible]	11.[illegible]
MOODY RCH	6.98	0.00	[illegible]	[illegible]	1.33	.43	1.2[illegible]	1.[illegible]	2.4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NORTH BELRIDGE	10.17E	0.00	[illegible]	0.0[illegible]	1.21	.61	0.34	4.39	3.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.24
OILFIELD FS	18.57E	0.00E	[illegible]	0.00E	1.40	[illegible]	1.13	6.2[illegible]	6.2[illegible]	.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.[illegible]
OLD RIVER 3 W	8.56	0.00	[illegible]	[illegible]	0.8[illegible]	.39	[illegible]	2.1[illegible]	2.9[illegible]	.66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.99
ORANGE COVE	26.91	0.00	0.00	0.00	1.82	1.48	2.95	[illegible]	6.76	[illegible]	1.97	[illegible]	.42	[illegible]	[illegible]	[illegible]	26.91
PORTERVILLE	21.22	[illegible]	[illegible]	[illegible]	1.77	[illegible]	1.58	[illegible]	[illegible]	[illegible]	1.[illegible]	.2	.11	[illegible]	[illegible]	[illegible]	21.35
PORTERVILLE 3 W	17.45	0.00	0.00	[illegible]	1.39	.78	1.53	1.28	4.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
POSO CREEK	-	0.00	0.00	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-
POSO RANCH	12.36	0.00	0.00	0.00	1.39	0.56	0.76	4.62	3.1[illegible]	[illegible]	1.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12.[illegible]
RECTOR	20.99	0.00	0.00	0.00	1.64	1.15	2.18	7.95	5.58	.71	1.42	0.26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
REEDLEY MVFD	25.06	0.0[illegible]	0.00	0.00	2.12	1.53	2.45	10.02	6.16	.74	1.61	0.3[illegible]	.13	[illegible]	[illegible]	T	[illegible]
RIVERDALE	17.80E	0.00	[illegible]	0.00E	1.30	1.66	1.82	6.91	3.99	[illegible]	[illegible]	[illegible]	[illegible]	.22	[illegible]	.26	18.[illegible]
ROSEDALE	9.35	0.00	0.00	0.00	1.27	0.45	0.74	2.49	2.79	3.54	1.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SAN EMIGDIO RCH	11.48E	0.00	0.00	0.00	2.30	0.84	1.23	1.86	3.43	1.14	0.68E	[illegible]	[illegible]	0.00	[illegible]	[illegible]	11.48E
SANGER 1 NE	26.13	0.02	0.06	0.00	2.21	2.28	2.56	9.60	5.91	1.43	1.77	[illegible]	[illegible]	.07	[illegible]	[illegible]	26.27
SANGER R S	24.94E	T	0.04E	0.00E	1.96	1.60	2.73	9.99	5.86	1.68	[illegible]	0.18	[illegible]	.43	0.00	[illegible]	25.73
SAN JOAQUIN	13.78	T	0.00	0.00	1.23	1.45	1.28	5.20	3.11	0.59	0.86	0.00	[illegible]	0.08	T	T	13.8[illegible]
SAN JOAQUIN MVFD	14.60	0.00	T	0.00	1.27	1.50	1.23	5.37	3.58	0.62	[illegible]	[illegible]	[illegible]	.30	[illegible]	[illegible]	14.7[illegible]
SANTIAGO RCH W&L	9.10	0.00	0.00	0.00	1.91	0.47	0.72	1.74	3.08	1.06	[illegible]	[illegible]	[illegible]	.13	[illegible]	[illegible]	9.2[illegible]
SOUTH BELRIDGE	11.10E	0.00	0.00	0.00E	1.24	1.50	1.23	3.41	3.26	0.10	0.36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.21
SOUTH LAKE FARM HDQ	15.18	0.00	T	0.00	1.29	0.87	0.85	6.55	4.27	0.43	.91	[illegible]	T	.27	.13	[illegible]	11.6[illegible]
STEVENSON DIST SEC 33	-	0.00	0.00	0.00	1.37	0.99	1.73	6.56	4.[illegible]7	0.40	RE						-
TEJON RANCHO	15.97	0.00	0.00	0.00	1.95	1.44	2.12	3.01	4.[illegible]3	1.54	1.69	T	[illegible]	[illegible]	[illegible]	[illegible]	16.[illegible]
TRANQUILLITY GLOTZ	14.14	T	0.00	0.00	1.12	1.47	1.45	5.31	3.23	0.69	[illegible]	T	T	0.34	[illegible]	[illegible]	4.29
TULARE	19.38	0.00	0.00	0.00	1.47	1.15	2.11	7.42	5.11	0.52	1.39	.20	0.01	T	[illegible]	.08	19.46
TULARE DIST SEC 27	-	0.00	0.00	0.00	1.11	0.77	0.86	5.75	-	-	-	-	.6[illegible]	-	-	-	-
TULEFIELD	8.27	0.00	0.00	0.00	1.24	0.40	0.89	1.63	2.45	0.81	[illegible]	.08	T	[illegible]	[illegible] E	[illegible] E	8.44E
U S COTTON FIELD STN	9.52	0.00	0.00	0.00	1.17	0.45	0.69	2.82	2.70	[illegible]	1.04	[illegible]	0.02	[illegible]	[illegible]	.02	9.69
VESTAL	15.68E	0.00	T	0.00E	1.14	.59	1.46	5.38	4.35	0.82	1.45	[illegible]	0.24	[illegible]	[illegible]	.06	11.74
VISALIA	19.97E	0.03	0.01	0.00	1.41	0.77	2.36E	7.72	5.48	0.85	1.08	[illegible]	0.26	0.08	[illegible]	[illegible]	[illegible]
VISALIA 4 E	21.77	T	0.00	0.00	1.57	1.26	2.15	8.43	6.07	0.65	1.36	0.20	[illegible]	0.20	[illegible]	0.12	22.[illegible]
WASCO	11.82	0.00	0.00	0.00	1.36	0.70	0.81	4.68	2.87	0.57	0.78	0.03	0.02	0.20	[illegible]	T	12.[illegible]
WEST CAMP SLF		0.00	0.00E	0.00	1.45	RE											
WESTHAVEN	15.55	0.00	0.01	0.00	1.21	0.83	1.25	6.50	4.[illegible]	0.56	[illegible]	0.02	[illegible]	[illegible]	[illegible]	T	15.[illegible]
WHEELER RIDGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WILBUR DITCH	-	0.00	0.08	0.00	1.37	0.80	0.68	-	-	-	-	-	-	-	-	-	-
KINGS RIVER C1																	
ACADEMY	28.10	0.00	0.00	0.00	1.88	2.58	3.30	10.32	5.93	1.89	1.90	0.00	[illegible]	[illegible]	[illegible]	[illegible]	28.2[illegible]
BALCH POWER HOUSE	60.36	T	0.10	0.00	2.20	3.40	7.70	23.56	14.40	3.20	3.6[illegible]	0.30	1.90	0.1	[illegible]	.10	6[illegible]4[illegible]
BENNER RANCH	54.60	T	T	0.00	2.37	2.74	7.27	26.00	8.20	3.34	3.4[illegible]	.01	1.27	0.25	T	.30	55.1[illegible]
BRASINGAME	37.18	T	0.01	0.00	2.29	2.59	4.97	11.43	9.43	2.88	2.93	[illegible]	.66	0.06	[illegible]	.37	31.6[illegible]
GRANT GROVE	87.45E	T	0.11	0.00	3.09	3.05E	11.05	38.18	18.55	6.62	4.[illegible]3	.11	[illegible]	[illegible]	.1[illegible]	.15	8[illegible].7E
PINE FLAT DAM	35.45	T	0.05	0.00	1.85	2.41	4.95	13.90	7.69	1.93	2.0[illegible]	[illegible]	[illegible]	0.14	[illegible]	0.16	3[illegible].72
PINEHURST	61.99E	0.00	0.00	0.00E	2.66	3.35	7.96	26.25	12.34	4.24	1.52	.06	1.61	[illegible]	[illegible]	.3	62.47
SQUAW VALLEY FR	40.84	0.00	0.00	0.00	2.11	2.25	5.63	16.31	10.07	2.43	1.54	0.1	[illegible]	[illegible]	[illegible]	[illegible]	41.38
TRIMMER R S	49.78	0.00	0.02	0.00	2.40	2.21	7.34	20.68	10.95	2.57	2.78	[illegible]	0.82	0.02	[illegible]	0.16	49.94
WISHON LAKE	78.96	0.05	0.41	0.00	2.89	4.00	11.91	33.63	16.25	4.16	1.29	0.29	2.06	.31	.94E	.13	78.98E
KAWEAH RIVER C2																	
ASH MOUNTAIN	51.45	0.10	0.00	0.00	2.32	2.72	5.60	16.33	14.3[illegible]	3.49	4.44	.09	2.[illegible]	0.2[illegible]	[illegible]	0.36	1[illegible]
BADGER	54.80	0.15	0.00	0.00	2.11	2.43	6.13	22.50	14.2[illegible]	2.43	3.[illegible]9	0.[illegible]0	1.26	[illegible].23	[illegible]	[illegible]	4.[illegible]
GIANT FOREST	-	0.08	0.21	0.00	3.07	3.25	RE										
KAWEAH PH 3	51.00	0.11	0.01	0.00	2.32	2.81	5.46	18.16	13.32	2.81	3.92	0.12	1.[illegible]	[illegible]	[illegible]	[illegible]	1.54
LEMON COVE	28.53	T	0.00	0.00	1.86	1.39	2.80	9.92	7.61	[illegible].75	2.43	0.11	1.6[illegible]	[illegible].10	[illegible]	[illegible].14	2.[illegible]
LODGEPOLE	107.86E	0.08E	0.21E	0.00E	3.07E	3.25E	13.31	49.55	26.22	5.09	4.1[illegible]	.69	2.21	[illegible].29	[illegible]	[illegible]	1[illegible]2.2[illegible]
MIRAMONTE HONOR CAMP	51.6[illegible]	T	T	0.00	2.13	2.54	6.27	22.62	17.87	2.83	3.12	.34	0.1[illegible]	0.13	T	[illegible]	[illegible].34
TERMINUS DAM	30.09	0.00	0.00	0.00	1.80	1.45	3.20	10.50	2.40	1.18	2.6[illegible]	.1[illegible]	1.1[illegible]	.17	[illegible]	.13	.4
THREE RIVERS 6 SE	41.34	0.[illegible]1	0.00	0.00	1.97	2.56	4.[illegible]	14.08	11.37	[illegible].92	3.74	.12	1.5[illegible]	0.18	[illegible]	0.18	41.6[illegible]
THREE RIVERS PH NO 2	44.65	0.06	0.00	0.00	2.32	2.63	4.79	16.11	11.81	1.8[illegible]	2.9[illegible]	.[illegible]8	2.2	0.11	[illegible]	[illegible].9	44.8[illegible]
THREE RIVERS PH NO 1	43.93	0.05	0.00	0.00	2.14	2.64	4.84	15.[illegible]	12.17	1.64	2.96	0.06	1.13	[illegible].23	[illegible]	0.12	44.2[illegible]
WHITAKER FOREST	-	0.02	0.14	0.00	2.97	3.[illegible]8	10.2[illegible]	-	-	-		-	2.2	0.37	[illegible].4	0.12	-
TULE RIVER C3																	
DEER CREEK RCH	26.68E	0.00E	0.00	[illegible]	2.15	1.14	2.25	8.45	[illegible].76	[illegible].94	2.47	.36	[illegible].2[illegible]	[illegible].16	[illegible]	[illegible]	[illegible]
CAMP NELSON	64.86E	[illegible].07E	0.00E	0.00E	2.15	3.18	6.05	27.64	16.10	3.65	3.36	[illegible].59	1.87	0.22	[illegible]	[illegible]	[illegible]
MILO 5 NE	61.91	0.08	0.00	[illegible]	2.44	4.01	6.23	23.44	16.11	3.16	4.12	.47	1.92	0.24	[illegible]	[illegible]	6[illegible]
SPRINGVILLE 7 ENE	54.90E	0.00E	0.00	0.00	2.40	3.43	6.12	17.36	14.14	4.91	[illegible]	.13	2.61	0.21	[illegible]	[illegible]	[illegible]
SPRINGVILLE R S	32.20E	0.00	0.00	0.00	1.9[illegible]	2.11E	2.65	9.8[illegible]	9.93	1.44	2.[illegible]	[illegible]	1.0[illegible]E	0.11	[illegible]	[illegible]	3[illegible].4E
SPRINGVILLE TULE NDWK	[illegible]2.29E	[illegible].06	0.00	[illegible]	2.48	3.97	8.4[illegible]	26.41E	18.62E	4.31	4.21	[illegible]	.26	0.23	[illegible]	[illegible]	2.99E
SUCCESS DAM	23.59	0.00	0.00	[illegible]	1.12	1.0[illegible]	1.82	8.52	6.[illegible]	1.24	1.[illegible]	[illegible]	[illegible]	0.14	[illegible]	[illegible]	23.[illegible]
TULE RIVER INTAKE	53.54	[illegible].00	0.00	[illegible]	2.46	3.47	5.[illegible]1	16.17	14.56	4.62	3.8	[illegible]	2.61	0.22	[illegible]	[illegible]	1.61
TULE RIVER PH	38.45	0.00	0.00	0.00	2.22	2.60	4.[illegible]	12.[illegible]	11.28	2.79	[illegible]	.13	1.91	0.1[illegible]	[illegible]	[illegible]	[illegible]
UHL R S	43.37E	[illegible].37	0.00	0.00	1.66	3.63	6.14	11.99E	14.5E	4.19E	[illegible].21	.36	1.[illegible]	.16	[illegible]	[illegible]	4[illegible].23E
GREENHORN MTN C4																	
GLENVILLE	32.73E	0.10	0.00	0.00E	1.67	1.86	3.42	10.89	9.68	2.1[illegible]	1.[illegible]4	.19	.81	.19	[illegible]	[illegible]	32.82
GLENVILLE FULTON R S	35.10E	0.05	0.00	0.00	1.9[illegible]	2.35E	3.70E	11.41	[illegible].22	1.93	[illegible].03	0.17	1.[illegible]4	[illegible].[illegible]	[illegible]	[illegible]	3[illegible].32E
POSEY 3 E	53.10	[illegible].00	0.00	0.00	2.3[illegible]	3.81	7.[illegible]9	15.64	14.62	4.63	3.1[illegible]	.24	1.6[illegible]	0.21	[illegible]	[illegible]	3.31
WOODY	23.57	T	0.00	0.00	1.83	.92	1.96	7.[illegible]6	[illegible].22	.7[illegible]	2.2	.14	.49	[illegible].08	[illegible]	[illegible].83	1.[illegible]6

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1968						1969									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
KERN RIVER [illegible]																	
ISABELLA DAM	22.[illegible]	[illegible]	.11	0.00	0.48	1.28	1.66	9.56	6.12	1.14	0.95	0.35	0.34	0.27	0.00	0.10	22.25
JOHNSONDALE	53.[illegible]	[illegible]	[illegible]	[illegible]	1.17	1.62	5.03	24.94	13.29	3.00	1.95	0.47	1.32	0.42E	0.00E	T	53.21E
KERN CANYON	1[illegible].[illegible]	.11	[illegible]	0.00	1.47	0.59	1.17	4.01	4.92	1.24	1.47	0.05	0.00	0.00	0.00	T	14.92
KERN R I INTAKE SCE	4.14	.41	[illegible]	0.00	0.55	1.62	3.69	18.15	10.99	0.90	1.31	0.56	0.91	0.83	0.02	0.02	39.55
KERN RIVER PH NO 1	15.88	0.11	[illegible]	0.00	1.57	0.97	1.88	4.68	6.07	1.63	1.80	0.07	0.10	0.01	0.00	T	18.78
KERN RIVER PH NO 3	26.31	0.26	T	0.00	0.36	1.20	2.05	11.67	7.62	1.17	1.06	0.17	0.75	0.32	T	T	26.37
ONYX	16.53	0.08	0.00	0.00	0.43	0.99	1.01	8.31	5.37	1.33	0.86	0.15	0.00	0.48	0.00	0.00	18.93
TEN HIGH MINE	[illegible].88E	0.15E	[illegible]	0.00	2.21	3.17	4.65	11.65	11.29	4.43	2.84	0.28	0.24	0.46	0.00	0.00	41.19
WELDON 1 NSW	17.67E	0.18	0.10	0.00	0.40	0.86	1.07	7.55	5.52	0.88E	0.67	0.30	0.14	1.63	0.00	0.00	19.02E
WOFFORD HEIGHTS	22.16	0.14	T	0.00	0.24	1.25	1.78	9.80	6.44	0.92	0.83	0.50	0.26	0.30	T	0.35	22.67
TEHACHAPI MOUNTAINS 06																	
CHICHAPATE R S	-	[illegible]	[illegible]	0.00	1.00E	1.00	1.10	-	-	1.00	1.60	0.20	0.00	0.10	0.10	0.00	-
CUMMINGS VALLEY 2	16.[illegible]4	[illegible]	[illegible]	[illegible]	1.03	1.64	2.15	4.78	4.90	1.47	0.67	0.07	0.03	0.06	0.00	0.05	16.85
KEENE	20.27E	0.03	0.00	0.00E	0.72	1.28	3.60	4.65	6.07	1.37	2.49	0.01	0.05	0.07	0.00	0.01	20.32
LEBEC	18.60	0.01	0.16	0.00	0.62	0.85	1.58	5.02	6.93	1.60	1.55	0.11	0.17	0.07	0.00	0.00	18.50
LORAINE	21.18E	0.08	0.00	0.00	0.83	1.74	2.85	5.89	6.75	1.46E	1.47	0.11	0.00	0.34	0.00	0.05	21.49E
MIL POTRERO	30.04	0.07	0.21	0.00	1.63	1.38	2.77	11.78	6.09	1.59	2.24	0.25	0.03	0.19	0.09	T	30.04
PATTINGY	15.59	T	T	0.00	1.64	0.77	1.15	2.67	5.47	1.39	2.31	0.19	0.00	0.31	0.00	0.00	15.90
TEHACHAPI	17.[illegible]3E	[illegible].1E	0.00	0.00	0.48	1.21	2.24	5.16	5.69	1.60	1.16	0.02	0.00	0.26	0.00	0.12	17.94
TEHACHAPI AP	11.96E	0.05	0.00	0.00E	0.60E	0.94	1.32	3.54	3.45	0.88	0.93	0.05	0.20	0.19	0.00	0.15	12.25E
WALKER BASIN	31.55E	0.08E	0.00	0.00	1.30	2.87	3.87	10.33	8.19	2.12	2.58	0.13	0.08	0.32	0.00	0.00	31.79
TULARE L BAS WESTSIDE C[illegible]																	
ANNETTE	20.[illegible]	0.00E	[illegible].00E	0.00E	1.56	1.29	1.14	7.47	7.42	0.24	0.95	0.00	0.00	0.00	0.00	0.07	20.14
AVENAL 8 SW	31.83	0.00	T	0.00	2.13	1.23	2.66	14.56	10.08	T	1.11	0.06	0.00	0.17	0.00	0.19	32.19
AVENAL 6 SSW	23.19	0.00	0.00	0.00	1.74	1.32	1.96	9.99	6.87	0.25	1.00	0.06	0.00	0.08	0.00	0.10	23.37
CHICO RANCHO											RB	T	0.00	0.10	0.00	0.26	-
CHOLAME TWISSELMAN	22.41	0.00	0.00	0.00	1.77	1.08	1.53	8.91	7.13	0.72	1.27	0.00	0.00	0.10	0.00	0.04	22.55
COALINGA ROBERTS RCH	31.63	0.00	0.00	0.00	1.49	1.28	2.69	12.17	11.51	0.67	1.82	0.00	0.00	0.00	0.00	0.24	31.87
COALINGA 14 WNW	31.19	0.00	0.00	0.00	1.46	1.71	3.03	13.26	9.33	0.48	1.92	0.00	0.00	0.00	0.00	0.84	32.03
DOMENGINE RCH	19.25	T	T	0.00	1.42	1.04	0.92	7.34	6.69	0.88	0.68	0.00	0.28	T	0.00	0.15	19.40
DOMENGINE SPRINGS	24.45E	0.00	0.00E	0.00E	1.30	1.38	1.60	9.10	8.12	1.05	0.75	0.00	1.15	0.00	0.00	0.00	24.45
FELLOWS	10.87E	0.00E	0.00E	0.00E	1.02	0.39	0.48	2.27	4.37	1.03	1.26	0.02	0.03	0.00	0.00	0.01	10.88
MARICOPA F S	10.88	0.00	0.00	0.00	1.60	0.38	0.89	1.88	4.25	0.78	1.10	T	0.00	0.58	0.00	0.02	11.48
MARTINEZ SPRINGS	25.29E	0.00	0.00E	0.00E	1.47	1.00	1.85	9.70	8.22	0.95	0.70	0.00E	1.40	0.00E	0.00E	0.00E	25.29E
MC KITTRICK F S	10.16	0.00	0.00	0.00	1.30	0.68	0.26	3.17	3.69	0.37	0.69	T	0.00	0.80	0.00	T	10.96
TAFT	8.57	0.00	0.00	0.00	1.53	0.40	0.47	1.95	3.18	0.32	0.72	0.00	0.00	0.20	0.00	0.00	8.77
TAFT MTKR	9.53	T	T	0.00	1.42	0.37	0.50	2.30	3.41	0.46	0.84	0.03	T	0.18	0.00	T	9.51
THIRTY-TWO CORRAL	24.68E	0.00	0.00E	0.00E	1.52	1.28	1.57	9.50	7.98	1.47	0.70	0.00E	0.66	0.00E	0.00E	0.00E	24.68E

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1968-69 Season		
		Measurement Period		Precipitation in Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-10-68	8- 6-69	43.9
LAKE ALPINE	DEPT OF WATER RESOURCES	7-10-68	8- 6-69	105.6
TUOLUMNE RIVER B4				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	9-27-68	8-26-69	74.8
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	10- 6-68	10- 1-69	42.7
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	10- 8-68	9- 9-69	72.8
LOWER KIBBY RIDGE	HETCH HETCHY WATER SUPPLY	10-11-68	10-13-69	82.4
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	10- 4-68	9-29-69	73.2
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	10-11-68	8- 7-69	80.4
TUOLUMNE MEADOWS	DEPT OF WATER RESOURCES	7- 9-68	8- 5-69	53.7
MERCED RIVER B3				
BADGER PASS	NATIONAL PARK SERVICE	RECORD NOT AVAILABLE		
OSTRANDER LAKE	NATIONAL PARK SERVICE	8-18-68	8- 8-69	84.30
SNOW FLATS	DEPT OF WATER RESOURCES	7- 9-68	8- 5-69	92.2
SAN JOAQUIN RIVER B6				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	7- 8-68	8- 4-69	80.1
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 8-68	8- 4-69	79.5
KAISER MEADOW	SO CALIF EDISON COMPANY	9-19-68	6-26-69	67.1**
MAMMOTH POOL	SO CALIF EDISON COMPANY	9-24-68	6-29-69	67.0
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	9-27-68	7-31-69	60.4**
VERMILION VALLEY	SO CALIF EDISON COMPANY	9-20-68	6-26-69	41.2**
TULARE LAKE BASIN C0				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	7- 8-68	7-22-69	49.88
DUSY BENCH	U S CORPS OF ENGINEERS	9- 9-68	9-11-69	-
MITCHELL MEADOW	U S CORPS OF ENGINEERS	7-11-68		RE
MORAINE CREEK	U S CORPS OF ENGINEERS	10- 9-68	9-10-69	73.26*
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	10- 8-68	9-11-69	89.56
STATE LAKES	U S CORPS OF ENGINEERS	10- 8-68	9-11-69	61.78
SUMMIT MEADOW	U S CORPS OF ENGINEERS	9-30-68	10- 6-69	94.24
VIDETTE MEADOW	U S CORPS OF ENGINEERS	10- 9-68	9-10-69	76.26*
UPPER WOODCHUCK	FRESNO STATE COLLEGE		7- 9-69	RE
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	10- 8-68	7-10-69	69.28
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	7-10-68	7-23-69	99.36
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10- 7-68	9-12-69	69.48
MINERAL KING	U S CORPS OF ENGINEERS	10- 8-68	7-10-69	76.97*
PEAR LAKE	U S CORPS OF ENGINEERS	7- 9-68	9-12-69	122.26E**
GIANT FOREST	U S CORPS OF ENGINEERS	7- 9-68	7-23-69	92.65
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	10- 9-68	9-12-69	63.98
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	7-12-68	7- 9-69	76.13
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	7-13-68	7- 7-69	72.16
ROGERS CAMP	U S CORPS OF ENGINEERS	7-13-68	7- 9-69	67.54

* Gage may have been overtopped by snowpack.
** Gage was overtopped by snowpack.
RE Record ends.

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1968-69 Season		
		Measurement Period		Precipitation In Inches
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	10- 8-68	9-12-69	63.46
CRABTREE MEADOW	U S CORPS OF ENGINEERS	9- 6-68	9-20-69	44.64
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	6-11-68	7- 8-69	75.30
MONACHE MEADOW	U S CORPS OF ENGINEERS	9-14-68	9-29-69	29.40
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	7-10-68	7- 8-69	78.56
QUAKING ASPEN	U S CORPS OF ENGINEERS	7-11-68	7- 8-69	92.60
ROUND MEADOW	U S CORPS OF ENGINEERS	7-11-68	9-16-69	67.45
TUNNEL R S	DEPT OF WATER RESOURCES	9-14-68	9-26-69	42.05
WET MEADOW	U S CORPS OF ENGINEERS	10- 7-68	9-12-69	63.71**
TULARE L BASIN WESTSIDE C7				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	7-29-68	7-31-69	15.79

* Gage may have been overtopped by snowpack.
** Gage was overtopped by snowpack.
RE Record ends.

TABLE A-4

TEMPERATURE DATA

The definition of terms and abbreviations used in this table follows:

Max	The highest temperature of record for the month.
Min	The lowest temperature of record for the month.
Av Max	The arithmetical average of daily maximum temperatures for the month.
Av Min	The arithmetical average of daily minimum temperatures for the month.
Avg	The arithmetical average of daily maximum and minimum temperatures for the month.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

TABLE A-4

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1968						1969								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
SAN JOAQUIN RIVER																
SAN JOAQUIN M[illegible] 8																
CASTLE AFB	MAX	[illegible]	[illegible]	44	8[illegible]	6[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	[illegible]	4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AV MAX	[illegible]	[illegible]	[illegible]	4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AV MIN	62.[illegible]	[illegible]	[illegible]	48.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AVG	[illegible]	[illegible]	[illegible]	6[illegible]	[illegible]	[illegible]	44.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]ENATR SARFIELD	MAX	[illegible]	[illegible]	[illegible]	9[illegible]	[illegible]	[illegible]	62	66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	48	[illegible]	[illegible]	[illegible]	23	26	29	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	4
	AV MAX	[illegible]	89.[illegible]	[illegible]	[illegible]	61.[illegible]	[illegible]	46.[illegible]	74.[illegible]	[illegible] M	[illegible]	[illegible]	84.[illegible]	94.[illegible]	95.[illegible]	91.[illegible]
	AV MIN	[illegible]	54.[illegible]	[illegible]	45.[illegible]	42.[illegible]	34.2	39.[illegible]	38.[illegible]	34 M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AVG	[illegible]	72.[illegible]	[illegible]	6[illegible]	[illegible]	44.	44.[illegible]	4[illegible].4	M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]RINGSTON [illegible] W	MAX	[illegible]	[illegible]	[illegible]	86	[illegible]	[illegible]	64	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	22	34	[illegible]	[illegible]	[illegible]	24	28	29	29	[illegible]	4	[illegible]	[illegible]	[illegible]	4[illegible]
	AV MAX	[illegible] M	[illegible]	84.[illegible]	[illegible].2	[illegible]	[illegible]	49.6	[illegible].8	66 M	[illegible]	[illegible]	[illegible].2	[illegible]	[illegible]	[illegible]
	AV MIN	[illegible] M	54.6	[illegible]	43.1	42.2	[illegible]	3[illegible]	[illegible]	31.7	4[illegible]	[illegible]	[illegible].4	[illegible].4	[illegible]	[illegible]
	AVG	[illegible] M	72.	[illegible]	6[illegible]	[illegible].2	4[illegible]	4[illegible].3	46.[illegible]	[illegible]2 M	[illegible].4	[illegible].4	[illegible]	[illegible].4	[illegible]	[illegible]
[illegible]Z BANOS FIELD STA	MAX	104	[illegible]	[illegible]	83	82	66	66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	[illegible]	4[illegible]	44	30	23	[illegible]	[illegible]	[illegible]	4[illegible]	44	[illegible]	[illegible]	2	[illegible]
	AV MAX	[illegible] M	84 M	[illegible] M	[illegible] M	[illegible] M	[illegible] M	[illegible] M	[illegible] M	M	[illegible] M	M	[illegible] M	[illegible] M	M	[illegible] M
	AV MIN	6[illegible] M	54 M	[illegible] M	48 M	M	32 M	37 M	39 M	M	4 M	M	M	[illegible] M	M	[illegible] M
	AVG	[illegible] M	69 M	[illegible] M	62 M	M	44 M	44 M	4[illegible] M	M	M	M	[illegible] M	[illegible] M	M	4 M
MODESTO KTRB	MAX	[illegible]	[illegible]	[illegible]	84	[illegible]	[illegible]	65	67	83	67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	[illegible]	44	40	3[illegible]	23	26	29	29	3[illegible]	3[illegible]	4[illegible]	[illegible]	1[illegible]	4[illegible]
	AV MAX	91.8	[illegible]	8[illegible]	76.1	61.3	52.8	51.5	5[illegible]	65.6	[illegible]	[illegible].2	[illegible]	[illegible]	[illegible]	[illegible]
	AV MIN	59.3	[illegible]	[illegible]	47.2	43.8	36.[illegible]	39.2	4[illegible].1	39.4	44.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AVG	76.5	71.8	[illegible]	61.6	52.6	44.2	45.4	47.8	52.5	7[illegible].4	66.9	69.3	[illegible]	[illegible]	[illegible]
PANOCHE WATER DIST	MAX								RB	82	86	96	[illegible]	[illegible]	[illegible]	[illegible]
	MIN								RB	32	3[illegible]	4[illegible]	4[illegible]	[illegible]	[illegible]	[illegible]
	AV MAX								RB	[illegible] M	[illegible] M	[illegible] M	[illegible] M	96 M	[illegible]	[illegible]
	AV MIN								RB	43 M	4[illegible] M	[illegible] M	5[illegible] M	6[illegible] M	58.[illegible]	[illegible] M
	AVG								RB	[illegible] M	5[illegible] M	64 M	M	[illegible] M	[illegible]	[illegible] M
SNELLING	MAX	104	104	95	86	72	62	62	[illegible]	[illegible]	[illegible]	96	96	[illegible]	[illegible]	[illegible]
	MIN	54	48	38	35	3[illegible]	24	26	[illegible]	31	3[illegible]	42	48	[illegible]	53	44
	AV MAX	[illegible] M	[illegible]	[illegible]	76.2	6[illegible].5	52.[illegible]	50.9	54.[illegible]	64.4	[illegible]	84.6	8[illegible]	[illegible] M	[illegible]	91.[illegible]
	AV MIN	6[illegible] M	55.[illegible]	51.4	48.0	43.1	3[illegible].4	39.2	40.8	39.2	4[illegible]	51.4	[illegible]	56 M	5[illegible].4	57.4
	AVG	[illegible] M	[illegible]	69.4	62.1	51.8	44.[illegible]	45.3	47.8	51.8	57.2	68.[illegible]	[illegible].5	[illegible] M	[illegible]	4.6
WESTLEY	MAX	104	97	92	83	70	60	63	62	82	8[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	54	50	48	39	31	25	28	27	31	38	4[illegible]	[illegible]	[illegible]	[illegible]	46
	AV MAX	93 M	84.[illegible]	85.4	73 M	M	[illegible] M	48.9	52.4	64.1	[illegible]	83.4	[illegible].3	94.[illegible]	[illegible].4	68.[illegible]
	AV MIN	59 M	55.[illegible]	53.8	46 M	M	33 M	38.6	39.7	41.2	46.[illegible]	[illegible]	[illegible].9	59.2	[illegible]	56.9
	AVG	76 M	69.8	69.6	60 M	M	42 M	43.8	46.[illegible]	52.6	[illegible]	67.7	69.6	[illegible].8	[illegible]	[illegible]
STANISLAUS RIVER B3																
ANGELS CAMP	MAX	[illegible]	1[illegible]3	98	90	[illegible]	68	64	66	[illegible]	8[illegible]	[illegible]	93	[illegible]	[illegible]	[illegible]
	MIN	49	42	35	3[illegible]	2[illegible]	28	21	26	2[illegible]	[illegible]	36	42	46	46	[illegible]
	AV MAX	9[illegible].2	89.8	68.9	77.[illegible]	62.8	54.5	75.0	53.[illegible]	63.9	[illegible].3	82.4	83.	[illegible]	[illegible]	[illegible]
	AV MIN	56.4	52.0	48.3	42.[illegible]	38.5	31.[illegible]	36.3	35.4	35.1	38.2	46.5	[illegible]	56.6	24.3	[illegible]
	AVG	76.8	[illegible].9	68.6	60.1	5[illegible].6	43.[illegible]	4[illegible].6	44.6	49.5	52.6	64.4	[illegible]	[illegible]	[illegible]	[illegible]
BEAR VALLEY ALPINE	MAX	83	[illegible]	81	[illegible]	[illegible]	M	M	M	M	M	M	84	[illegible]	[illegible]	[illegible]
	MIN	32	26	20	16	6	M	M	M	M	M	M	2[illegible]	32	2[illegible]	26
	AV MAX	[illegible].8	86.1	68.	59.6	45.5	M	M	M	M	M	M	[illegible]	[illegible]	[illegible].4	[illegible]
	AV MIN	40.2	36.0	31.[illegible]	24.2	[illegible].6	M	M	M	M	M	M	33 M	4[illegible].4	36.6	33.[illegible]
	AVG	57.5	57.0	49.8	41.9	31.6	M	M	M	M	M	M	46 M	[illegible].4	[illegible]	[illegible]
HUNTERS DAM	MAX	98	98	94	82	66	[illegible]	68	54	[illegible]	[illegible]	86	[illegible]	95	[illegible]	[illegible]
	MIN	46	36	32	31	24	[illegible]	1[illegible]	2[illegible]	22	2[illegible]	3[illegible]	34	42	42	[illegible]
	AV MAX	90.0	82.5	[illegible]	69.0	54.5	45.2	48.[illegible]	44.[illegible]	55.7	62.4	[illegible].7	[illegible].6	88.	[illegible]	[illegible]
	AV MIN	52.9	48.2	47.[illegible]	38.3	33.5	26.3	30.4	28.6	29.8	33.6	41.[illegible]	4[illegible].9	[illegible].3	48.9	46.[illegible]
	AVG	[illegible].4	65.4	64.3	53.6	44.[illegible]	35.8	39.2	36.4	42.8	48.[illegible]	[illegible].6	[illegible]	[illegible]	68.[illegible]	[illegible]
PINECREST STRAWBERRY	MAX	88	88	84	80	[illegible]	58	62	56	66	[illegible]2	82	82	88	[illegible]	[illegible]
	MIN	44	32	28	26	16	2[illegible]	4	12	1[illegible]	1[illegible]	3[illegible]	[illegible]	44	4[illegible]	34
	AV MAX	82.6	[illegible].0	[illegible].1	M	54.6	4[illegible].1	43.[illegible]	39.2	53.[illegible]	[illegible]	[illegible].0	[illegible].2	82.	[illegible]	[illegible]
	AV MIN	52.4	46.[illegible]	43.2	M	29.1	22.2	27.[illegible]	23.8	23.3	2[illegible].4	37.8	42.[illegible]	49.	49.4	45.2
	AVG	66.5	60.5	[illegible].2	M	41.8	[illegible].6	35.4	31.5	38.2	43.	[illegible].4	[illegible]	65.[illegible]	66.8	61.4
STANISLAUS P H	MAX	[illegible]	107	[illegible]	92	[illegible]	68	64	66	3[illegible]	83	94	96	104	[illegible]	104
	MIN	57	48	34	40	30	2[illegible]	25	[illegible]	2[illegible]	34	4[illegible]	46	[illegible]	[illegible]	47
	AV MAX	95.2	90.9	92.1	76 M	6[illegible].5	54.1	54.6	55.9	66 M	[illegible]	[illegible].7	64.[illegible]	97.[illegible]	[illegible]	92 M
	AV MIN	63.5	58.4	[illegible].1	47 M	41.2	34.5	37.9	37.1	37 M	42.2	48.8	[illegible].1	62.2	[illegible]	53 M
	AVG	8[illegible].8	74.6	[illegible].6	62 M	53.4	44.2	46.4	46.5	[illegible]2 M	56.2	65.8	[illegible].3	79.8	[illegible]	[illegible] M
[illegible]TUMNE RIVER B4																
DON PEDRO RES	MAX	1[illegible]8	1[illegible]4	[illegible]	88	[illegible]	66	62	65	79	83	96	97	[illegible]	[illegible]	1[illegible]
	MIN	[illegible]	44	3[illegible]	33	3[illegible]	25	23	2[illegible]	32	[illegible]	43	[illegible]	[illegible]	[illegible]	[illegible]2
	AV MAX	9[illegible].4	[illegible]	89.[illegible]	[illegible].4	[illegible]	53.8	51 M	[illegible].8	[illegible].4	[illegible]	[illegible].2	[illegible]	[illegible].4	[illegible]	[illegible]
	AV MIN	58.4	53.0	48.6	41.3	41.5	34.5	36 M	37.6	41.[illegible]	[illegible]	52.[illegible]	[illegible]	[illegible]	[illegible]	5[illegible]
	AVG	78.9	72.2	69.2	59.4	52.2	44.2	44 M	45.[illegible]	[illegible]2.	[illegible].2	[illegible]	[illegible]	81.[illegible]	[illegible]	74.
[illegible]OGDON MEADOW	MAX	92	92	91	87	68	58	[illegible]2	54	69	[illegible]	[illegible]	[illegible]	42	[illegible]	[illegible]
	MIN	37	24	25	2[illegible]	19	[illegible]	[illegible]	3	1	2[illegible]	[illegible]	3[illegible]	4	[illegible]	3[illegible]
	AV MAX	56.	[illegible].4	81.	69.4	[illegible].2	41.[illegible]	43.6	42.[illegible]	[illegible]	[illegible] M	[illegible].4	[illegible] M	[illegible]	[illegible] M	[illegible]
	AV MIN	4[illegible].2	4[illegible].8	[illegible].2	31.5	2[illegible].4	16.	2[illegible].8	[illegible]	[illegible] M	[illegible].8	44 M	[illegible]	[illegible]	[illegible] M	44.[illegible]
	AVG	6[illegible].6	[illegible].6	[illegible].4	50.4	4[illegible].8	3[illegible].2	33.6	31.[illegible]	38.4	44 M	[illegible]	[illegible] M	66.	[illegible] M	6[illegible]
MERCED RIVER B[illegible]																
OAKLEY[illegible]LLE FFS	MAX	104	1[illegible]	99	87	M	M	6[illegible]	[illegible]	M	M	M	94	1[illegible]	[illegible]	M
	MIN	53	47	39	36	M	M	2[illegible]	M	M	M	M	4[illegible]	[illegible]	4	42
	AV MAX	M	[illegible] M	84 M	4 M	M	M	M	M	M	M	M	[illegible] M	[illegible] M	[illegible]	M
	AV MIN	M	[illegible] M	[illegible] M	48 M	M	M	M	M	M	M	M	[illegible] M	[illegible] M	[illegible]	[illegible]
	AVG	M	74 M	68 M	39 M	M	M	M	M	M	M	M	[illegible] M	[illegible] M	[illegible]	[illegible]
[illegible]ORNITOS MILES [illegible]	MAX	[illegible]	[illegible]	44	86	[illegible]	60	[illegible]	62	[illegible]	[illegible]	44	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	[illegible]	48	[illegible]	32	22	42	26	2[illegible]	3[illegible]	4[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AV MAX	[illegible]	89.[illegible]	86.6	74.[illegible]	[illegible].3	46.6	45.	49.[illegible]	[illegible]	[illegible]	81.4	[illegible]	94.[illegible]	[illegible]	[illegible]
	AV MIN	6[illegible].1	[illegible].8	[illegible].6	5[illegible].6	44.[illegible]	[illegible].7	34.4	34.4	37.3	44.[illegible]	5[illegible].4	[illegible]	66.[illegible]	[illegible].2	61.[illegible]
	AVG	[illegible]	[illegible].4	[illegible].1	62.6	51.4	4[illegible].2	39.[illegible]	42.1	4[illegible].3	[illegible]	6[illegible].4	[illegible]	[illegible]	[illegible]	[illegible].4

TABLE A-4 (Cont.)

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1968						1969								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
[illegible]																
[illegible]	MAX	[illegible]	[illegible]	84	[illegible]	[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	4[illegible]	44	[illegible]	[illegible]	[illegible]	18	42	[illegible]	[illegible]	[illegible]	4[illegible]	[illegible]	[illegible]	[illegible]
	AV MAX	[illegible]	[illegible].4	94.[illegible]	[illegible].2	[illegible].4	[illegible].2	[illegible].4	4[illegible]	[illegible]	[illegible]	[illegible]	[illegible].9	9[illegible]	[illegible].4	[illegible]
	AV MIN	[illegible]	[illegible]	[illegible]	[illegible].6	41.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	42.[illegible]	M	[illegible].3	66.4	66.[illegible]	[illegible]1.
	AVG	[illegible]	[illegible].4	2.2	[illegible]	[illegible]	41.4	44.[illegible]	4[illegible]	4[illegible]	2.[illegible]	M	6[illegible].6	[illegible]8.8	[illegible]	4.[illegible]
[illegible]	MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	94	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	4[illegible]	42	[illegible]	[illegible]	[illegible]	24	2[illegible]	[illegible]	32	[illegible]	43	[illegible]	[illegible]	4
	AV MAX	[illegible]	[illegible]	8[illegible]	[illegible]	[illegible]	72.6	1.2	7[illegible].2	[illegible]	64.[illegible]	[illegible]	8[illegible].1	[illegible]	[illegible]	91.4
	AV MIN	[illegible].4	[illegible]	4.4	4[illegible].2	4[illegible]	3.6	3[illegible]	3[illegible].6	[illegible].4	4[illegible]	4[illegible]	53.3	6[illegible].3	[illegible].2	[illegible]
	AVG	[illegible]	[illegible]	[illegible].6	6[illegible].4	[illegible]	43.1	44.[illegible]	4[illegible].4	43.6	52.[illegible]	[illegible]4.1	68.2	[illegible]	[illegible].9	3.4
[illegible]	MAX	[illegible]	[illegible]	[illegible]	[illegible]2	[illegible]	[illegible]3	RE								
	MIN	[illegible]3	4[illegible]	4	4[illegible]	3[illegible]	[illegible]2	RE								
	AV MAX	95.[illegible]	[illegible]	84.[illegible]	[illegible].5	[illegible]	[illegible]	RE								
	AV MIN	[illegible].[illegible]	[illegible]	[illegible].3	46.6	[illegible]4.9	4[illegible]	RE								
	AVG	[illegible]	[illegible]	[illegible].1	[illegible]9.2	48.[illegible]	42.[illegible]	RE								
[illegible]	MAX	103	1[illegible]	94	85	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	M	[illegible]2	[illegible]	[illegible]
	MIN	[illegible]	43	36	3[illegible]	2[illegible]	19	21	24	2[illegible]	3[illegible]	[illegible]	M	4[illegible]	4[illegible]	44
	AV MAX	96 M	86 M	86.4	M	78.4	[illegible]	4[illegible]	52.[illegible]	59.6	68.[illegible]	9.4	M	94.[illegible]	95.[illegible]	89.3
	AV MIN	58 M	[illegible] M	4[illegible].9	M	3[illegible]	29.8	3[illegible]	33.7	34.8	3[illegible]	4[illegible].4	M	[illegible]9.4	56.[illegible]	[illegible]
	AVG	[illegible] M	6[illegible] M	6[illegible].6	M	48.2	40.6	41.8	43.[illegible]	4[illegible].2	51.[illegible]	62.4	M	[illegible]	76.1	[illegible]
[illegible] VALLEY)	MAX	1[illegible]	1[illegible]	1[illegible]	92	[illegible]8	68	74	6[illegible]	82	8[illegible]	9[illegible]	92	1[illegible]	104	[illegible]
	MIN	[illegible]8	4[illegible]	43	41	32	25	24	[illegible]	30	33	4[illegible]	48	[illegible]	54	45
	AV MAX	99 M	93.3	92.5	79.8	64.5	54.1	54.[illegible]	55 M	64.4	[illegible]	94.5	85.9	[illegible]7.8	99.4	93.6
	AV MIN	61 M	[illegible].3	55.8	46.5	41.8	34.4	4[illegible].4	[illegible] M	38.1	43.[illegible]	51.[illegible]	56.8	[illegible]6.2	61.4	58.[illegible]
	AVG	8[illegible] M	[illegible].8	74.2	64.2	53.2	44.2	47.[illegible]	46	51.2	5[illegible].2	68.[illegible]	71.4	[illegible]8.0	80.4	76.2
MARIPOSA [illegible]	MAX	101	94	M	86	72	[illegible]8	72	6[illegible]	75	74	90	91	99	101	[illegible]
	MIN	54	40	M	32	26	16	10	22	25	28	34	41	[illegible]	50	46
	AV MAX	96 M	86 M	M	75 M	58.6	M	49 M	47.[illegible]	57.0	64 M	[illegible] M	79.6	[illegible]	94.4	M
	AV MIN	6[illegible] M	53 M	M	44 M	36.3	M	32 M	[illegible].6	33.1	38 M	46 M	[illegible].6	58.5	58.1	M
	AVG	[illegible]8 M	[illegible] M	M	6[illegible] M	47.4	M	4[illegible] M	39.6	45.0	51 M	62 M	6[illegible].1	75.8	[illegible].2	M
OAKHURST	MAX	M	M	96	89	75	68	5	65	76	76	88	91	100	101	95
	MIN	M	M	29	31	21	12	9	24	24	28	34	41	4[illegible]	42	3[illegible]
	AV MAX	M	M	88 M	76.5	[illegible]	52.2	54.[illegible]	5[illegible].9	58.5	64.9	77.8	81 M	M	M	M
	AV MIN	M	M	41 M	36.2	31.8	24.2	29.5	29.8	30.9	36.3	42.4	48 M	M	M	M
	AVG	M	M	64 M	56.4	51.4	38.2	42.1	40.4	44.7	50.6	6[illegible].1	64 M	M	M	M
TRIANGLE - DESMOND	MAX	9[illegible]	92	94	85	69	58	[illegible]3	58	74	75	84	90	98	99	49
	MIN	5[illegible]	38	34	31	23	1	[illegible]	18	22	27	32	4[illegible]	4[illegible]	4[illegible]	41
	AV MAX	M	80.5	84 M	71 M	54 M	44.9	49.[illegible]	45 M	55 M	61 M	73 M	[illegible].2	91.[illegible]	93.9	81.3
	AV MIN	M	48.2	44 M	39 M	3[illegible] M	26.8	28.5	27 M	31 M	36 M	42 M	50.1	55.4	54.[illegible]	51.5
	AVG	M	64.3	64 M	55 M	42 M	35.8	38.8	36 M	43 M	48 M	58 M	63.6	[illegible]3.6	4.[illegible]	69.4
SAN JOAQUIN RIVER B7																
CRANE VALLEY P H	MAX	100	95	93	86	72	66	74	62	76	77	90	84	98	100	97
	MIN	60	48	42	3[illegible]	31	16	1[illegible]	26	20	32	36	49	57	62	49
	AV MAX	92.4	65 M	85.1	[illegible]3.6	60.3	50.3	52.[illegible]	88.3	57.[illegible]	63.[illegible]	[illegible].3	76.9	90 M	93.1	86.[illegible]
	AV MIN	67.1	63 M	57.1	47.2	38.4	31.7	34.[illegible]	31.3	33.5	41.4	51.2	55.1	6[illegible] M	65.9	63.[illegible]
	AVG	79.5	62 M	71.1	60.4	49.4	41.0	43.[illegible]	39.8	45.4	51.[illegible]	64.2	65.9	[illegible]8 M	79.5	75.3
MEADOW LAKE	MAX	92	90	90	88	66	60	72	56	80	68	80	85	96	90	91
	MIN	5[illegible]	42	42	36	26	14	12	22	22	27	32	42	56	59	46
	AV MAX	84.7	78.6	78.9	67.1	53.5	44.9	48 M	40.2	48.2	54.7	68.5	69.3	83 M	85 M	80 M
	AV MIN	64.2	57.8	58.0	48.1	37.8	28.5	34 M	28.1	33.4	38.9	48.0	52.8	63 M	66 M	60 M
	AVG	74.4	66.2	68.4	57.6	45.6	36.[illegible]	41 M	34.2	4[illegible].8	46.8	58.2	61.0	[illegible]3 M	76 M	70 M
SAN JOAQ VAL WESTSIDE B8																
DEL PUERTO ROAD CAMP	MAX	M	M	96	86	74	68	60	62	78	80	96	94	102	106	[illegible]
	MIN	M	M	44	38	26	24	20	26	24	32	38	46	46	48	40
	AV MAX	M	M	86.5	75.2	61.9	51 M	50 M	49 M	61.9	66.7	82.1	83 M	94.[illegible]	95.6	87.2
	AV MIN	M	M	53.2	43.8	39.6	32 M	33 M	34 M	3[illegible].0	39 M	42.4	50 M	54.2	55.9	53.8
	AVG	M	M	69.8	57.5	50.8	42 M	42 M	42 M	48.4	53 M	62.2	66 M	74.4	75.8	70.5
TULARE LAKE BA [illegible]N																
[illegible]LARE LAKE VAL FLOOR CO																
AR [illegible]IN	MAX	103	1[illegible]	91	[illegible]8	76	70	74	75	88	88	9[illegible]	96	104	104	10[illegible]
	MIN	61	[illegible]	43	42	30	22	27	31	3[illegible]	38	44	54	51	56	5[illegible]
	AV MAX	68.4	91.8	90 M	76.[illegible]	63.[illegible]	58.3	55.3	61.9	69.3	74.1	86.3	88.[illegible]	98.2	98 M	91.[illegible]
	AV MIN	66.6	61.2	57 M	49.9	43.6	34.1	40.5	40.2	42.4	47.4	56.5	62.0	66.0	64 M	60.[illegible]
	AVG	82.5	76.5	73 M	63.2	53.6	46.2	47.[illegible]	51.0	55.6	60.6	71.4	75.0	82.1	81 M	76.1
CARUTHERS 4 E	MAX	103	104	102	88	73	65	65	66	88	89	98	99	1[illegible]5	1[illegible]3	105
	MIN	[illegible]2	48	38	36	28	21	28	26	29	36	41	47	48	46	46
	AV MAX	98 M	93 M	88 M	78.8	61.2	52.2	51 M	54.6	63.9	74.4	86.4	8[illegible].5	98 M	99.1	95 M
	AV MIN	60 M	[illegible] M	48 M	44.4	42.2	30.6	3[illegible] M	36.8	36.6	43.1	[illegible].4	54.9	59 M	55.0	54 M
	AVG	79 M	74 M	6[illegible] M	68.6	51.7	41.4	44 M	45.[illegible]	50.2	58.[illegible]	68.9	71.2	78 M	8[illegible].0	74 M
CORCORAN EL RICO 1	MAX	107	104	101	91	[illegible]	64	67	64	83	85	99	96	[illegible]6	104	106
	MIN	54	50	41	42	26	21	27	28	30	3[illegible]	42	55	60	5[illegible]	55
	AV MAX	99.6	93.2	91.[illegible]	78.2	54.	5[illegible].4	4[illegible].5	54.4	61.9	[illegible] M	83 M	87 M	95.0	99.2	94 M
	AV MIN	61.	57.9	54.3	48.3	40.4	31.8	38.3	39.4	39.9	4[illegible].3	5[illegible].[illegible]	6[illegible].3	65.8	64.3	61.8
	AVG	8[illegible].6	75.5	72.6	63.2	50.[illegible]	41.1	42.9	46.9	5[illegible].9	58 M	68 M	7[illegible] M	81.4	81.8	78 M
DELANO [illegible]W'T CAMP	MAX	1[illegible]5	99	97	86	77	M	75	66	90	85	98	1[illegible]	103	101	1[illegible]2
	MIN	59	50	44	44	33	M	29	3[illegible]	32	4[illegible]	44	54	56	56	[illegible]2
	AV MAX	96.3	89.5	89.[illegible]	77.[illegible]	62.6	M	M	5[illegible].1	6[illegible].4	[illegible]2.	85.[illegible]	86.5	96.0	9[illegible].5	41.1
	AV MIN	65.4	60.2	56.9	[illegible]0.6	43.[illegible]	M	M	41.[illegible]	40.5	46.8	54.4	[illegible].7	65.3	63.1	59.5
	AVG	8[illegible].8	74.8	[illegible]3.0	63.8	53.2	M	M	49.[illegible]	53.[illegible]	[illegible]9.6	69.7	[illegible]3.1	80.6	79.3	75.3
DEVILS DEN SLF	MAX	1[illegible]	1[illegible]	1[illegible]	96	[illegible]2	68	68	64	8[illegible]	8[illegible]	1[illegible]	98	11[illegible]	1[illegible]	108
	MIN	[illegible]	5[illegible]	40	4[illegible]	3[illegible]	2[illegible]	30	3[illegible]	24	34	42	52	56	[illegible]6	52
	AV MAX	1[illegible].1	99.[illegible]	96.4	84.1	62.6	56.4	53.6	56.[illegible]	5[illegible].8	73.[illegible]	[illegible].9	87.0	1[illegible].5	99.[illegible]	94.[illegible]
	AV MIN	64.5	57.2	[illegible]1.8	47.[illegible]	41.2	3[illegible].7	38.4	3[illegible].	3[illegible].2	43.[illegible]	[illegible].6	51.1	62.6	6[illegible].9	[illegible].8
	AVG	[illegible].4	78.4	[illegible].1	64.6	51.9	43.6	46.[illegible]	46.1	44.[illegible]	58.[illegible]	69.2	[illegible].0	81.6	80.4	76.2
[illegible]	MAX	1[illegible]	10[illegible]	1[illegible]	91	78	72	76	75	9[illegible]	92	101	9[illegible]	106	1[illegible]	106
	MIN	[illegible]	[illegible]1	44	44	32	24	3[illegible]	32	3[illegible]	4[illegible]	4[illegible]	54	[illegible]	[illegible]	54
	AV MAX	99.3	9[illegible].7	92.2	[illegible].6	[illegible].1	58.1	[illegible].4	6[illegible]	69.0	[illegible]6.4	88.[illegible]	[illegible]	1[illegible].[illegible]	[illegible]	94.[illegible]
	AV MIN	[illegible].7	6[illegible].4	[illegible]	5[illegible].4	44.[illegible]	36.[illegible]	4[illegible]	41.3	43.2	49.4	5[illegible].9	61.[illegible]	67.3	[illegible].1	61.[illegible]
	AVG	[illegible]	77.[illegible]	[illegible].6	6[illegible].3	4[illegible]	47.2	48.1	1.[illegible]	6.1	62.9	[illegible]	4.1	83.6	[illegible]	78.4

TABLE A-4 (Cont.)

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1968						1969								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	84	[illegible]	49	98	[illegible]	[illegible]	104
	[illegible]	[illegible]	[illegible]	46	[illegible]	[illegible]	24	[illegible]	[illegible]	43	30	43	51	54	56	6
	MAX	[illegible]	94.1	89.	[illegible]	61.8	[illegible]	[illegible]	[illegible]	6.8	93.1	86.	87.2	99.1	99.4	93.2
	MIN	[illegible]	41.3	[illegible]	1.	44.6	[illegible]	40.	4	41.	4 .8	4.	57.9	64.	64.3	62.8
	[illegible]	[illegible]	[illegible]	3.	64.2	3.2	44.4	[illegible]	[illegible]	3.8	59.4	0.2	72.6	81.9	81.8	78.0
[illegible]	MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	64	66	64	[illegible]	84	[illegible]	99	[illegible]	.06	105
	[illegible]	[illegible]	[illegible]	43	41	[illegible]	24	29	30	34	36	46	44	[illegible]	54	52
	MAX	99.2	41.9	91	[illegible]	61 M	54.4	[illegible]	57.4	64.6	72 M	85.4	86.4	99.0	99.3	93.3
	MIN	[illegible]	[illegible]	[illegible]	[illegible]	44 M	33.4	39.9	[illegible]	40.4	44 M	2.9	57.8	63.6	64.1	61.0
	[illegible]	82.1	[illegible]	[illegible]	64.2	2 M	43.[illegible]	45.8	48.4	2.6	[illegible] M	69.2	2.1	81.3	81.7	77.2
[illegible]	MAX	[illegible]	[illegible]	[illegible]	90	[illegible]	[illegible]	70	0	88	88	100	100	107	104	103
	MIN	9	2	44	43	31	2	[illegible]	29	32	34	44	52	56	56	51
	AV MAX	99.1	93.1	91.[illegible]	[illegible]	63.	55.5	51.4	58.1	67 M	[illegible]	86.5	88.1	98.8	99.[illegible]	96.[illegible]
	AV MIN	64.9	[illegible]	[illegible]	[illegible]	43.5	33.8	38.9	38.6	41 M	[illegible]	5.3	59.2	66.	63.7	[illegible]
	AVG	82.	6.4	74.	[illegible]	3.2	44.6	45.2	48.4	54 M	61.1	70.9	73.6	82.4	81.6	78.2
[illegible]	MAX	105	[illegible] 4	99	85	[illegible]	68	62	63	85	86	96	94	104	1.2	103
	MIN	65	46	6	[illegible]	42	33	35	37	37	43	46	55	[illegible]	86	58
	AV MAX	96.9	[illegible]	[illegible]	74.2	8.3	[illegible]	49.1	3 M	63 M	67.6	82.7	83.3	[illegible]	95.7	89.8
	AV MIN	[illegible]	[illegible]	[illegible]	9.2	49.4	41.6	41.8	43 M	49 M	[illegible]	9.7	62.5	[illegible]	[illegible]	71.9
	AVG	[illegible]	[illegible]	[illegible]	[illegible]	53.8	46.2	45.4	46 M	[illegible] M	49.[illegible]	71.2	[illegible]	84.9	85.6	80.8
MAGNADEN	MAX	108	107	131	84	78	70	74	3	90	90	100	99	109	106	107
	MIN	64	56	49	47	32	2	29	34	34	40	45	[illegible]	56	60	56
	AV MAX	102.3	[illegible]	92.3	[illegible]	64.6	[illegible]	54.0	61.[illegible]	68.6	76.2	88.5	89.5	102.2	102.6	95.[illegible]
	AV MIN	70.[illegible]	64.[illegible]	61.[illegible]	52.	46.1	3 .8	42.[illegible]	41.1	42.5	48.4	57.5	63.4	69.5	68.[illegible]	63.8
	AVG	86.1	[illegible]	[illegible]	65.[illegible]	55.4	46.4	48.0	51.0	55.6	62.3	73.0	76.4	85.8	85.6	79.4
MENDOTA MURRIETA FARMS	MAX	[illegible]	[illegible]	99	85	71	63	68	66	81	86	96	96	102	101	100
	MIN	51	42	42	42	28	17	24	26	29	35	40	44	49	51	47
	AV MAX	96.2	90.0	89 M	76.2	62.2	[illegible]	50.8	51.6	64.7	73.5	84.1	84.8	95.1	96.1	90 M
	AV MIN	59.8	[illegible]	52 M	46.	40.1	28.	35.4	34.3	36.9	42.9	[illegible]	52.6	9.4	58.6	[illegible] M
	AVG	[illegible]	2.3	[illegible] M	61.1	[illegible]	41.2	43.1	43.0	0.8	58.2	67.1	68.8	77.2	[illegible]	74 M
NORTH BELRIDGE	MAX	10[illegible]	105	101	88	76	68	68	66	84	88	99	94	105	110	102
	MIN	6	9	51	48	34	23	[illegible]	33	33	40	46	58	58	62	57
	AV MAX	100.3	93.2	90.1	77.[illegible]	62.6	54.9	51.8	57.4	65.4	73.1	85.4	86.1	97.2	97.5	91.8
	AV MIN	73.9	66.6	62.7	54.4	45.8	36.2	40.2	40.6	41.8	47.9	58.2	61.7	71.0	69.1	65.9
	AVG	87.1	79.9	76.4	65.7	54.2	45.6	46.0	49.0	53.6	60.5	71.8	73.9	84.1	83.3	78.8
OLD RIVER 3 W	MAX	100	102	99	86	74	70	72	69	92	87	99	97	106	104	104
	MIN	56	49	39	42	47	22	24	26	27	36	40	51	52	55	52
	AV MAX	96.3	89.6	88.5	76.[illegible]	62.[illegible]	57.4	52.8	59.8	68.4	74.0	86.0	88.7	98.5	98.[illegible]	92.
	AV MIN	61.2	58.8	54.5	48.[illegible]	42.3	35.1	39.4	36.4	37.1	42.9	51.7	58.9	65.1	62.7	59.5
	AVG	79.8	74.2	71.5	62.[illegible]	2.2	46.2	46.1	48.1	52.8	58.4	68.8	73.8	81.8	80.4	75.8
[illegible]	MAX	106	102	[illegible]	88	77	67	71	68	89	87	99	96	106	102	104
	MIN	52	51	41	42	31	25	30	30	33	39	44	51	57	53	51
	AV MAX	98.9	92.9	92.0	78.8	62.9	56.7	51.6	58.1	67.9	[illegible]	88.0	88.1	97.9	94.8	90.2
	AV MIN	62.1	58.9	55.8	48.6	43.8	36.0	41.5	41.[illegible]	41.5	4.0	54.6	60.0	6 M	62.6	59.0
	AVG	80.5	75.9	73.9	63.7	53.4	45.8	46.6	49.6	54.7	60.	71.3	74.0	81 M	78.7	74.1
[illegible]	MAX	103	102	99	89	73	64	48	68	67	86	98	95	104	102	105
	MIN	55	51	41	38	29	23	27	31	29	38	44	51	54	4	51
	AV MAX	96.9	91.8	89.8	78.3	63.1	53.8	50.9	58.2	68.5	73.7	83.3	86.3	97.3	97.9	94 M
	AV MIN	62.3	57.	[illegible]	46.1	41.8	31.[illegible]	37.6	36.9	39.[illegible]	43.[illegible]	51.8	56.9	61.8	60.4	58 M
	AVG	79.6	74.6	[illegible]	62.2	[illegible]	42.6	44.2	47.6	54.1	58.7	68.6	[illegible]	79.6	79.2	[illegible] M
[illegible] 1 NE	MAX	107	104	101	85	74	6[illegible]	67	68	88	88	101	99	107	105	104
	MIN	56	50	41	41	32	26	30	32	32	38	42	53	55	52	51
	AV MAX	100.1	95.2	91.5	77.[illegible]	62.2	54.9	52.5	5 .4	67.4	75.7	87.7	89.1	97.[illegible]	100.3	93.2
	AV MIN	62.3	58.5	55.1	50.2	45.4	35.5	41.5	40.2	41.3	46.4	53.0	59.4	63.6	61.9	58.1
	AVG	81.2	76.8	73.3	63.6	53.8	4[illegible].2	47.0	48.8	54.4	61.0	70.4	74.2	80.3	81.1	75.6
[illegible]	MAX	108	108	102	90	78	66	68	68	90	90	10[illegible]	104	108	106	106
	MIN	64	58	50	48	32	22	28	28	32	38	43	56	60	60	56
	AV MAX	101.	94.1	92.0	8.6	64.2	[illegible]	53.1	60 M	67.4	75.5	86.7	89.1	100.0	100.5	94.[illegible]
	AV MIN	71.2	[illegible]	60.6	52.9	45.4	35.0	39.6	41 M	41.0	46.5	56.2	62.[illegible]	69.3	69.0	65.[illegible]
	AVG	86.4	[illegible]	76.3	65.8	4.8	45.4	46.4	50 M	54.2	61.0	1.4	75.6	84.6	84.6	[illegible].6
[illegible] LAKE FARMS EDUS	MAX	106	104	[illegible]	88	78	65	69	66	89	86	98	95	103	102	[illegible]
	MIN	53	48	39	40	27	18	28	29	33	39	43	52	52	6	53
	AV MAX	99.8	93.6	91.1	78.0	62.5	52.9	51.0	57.1	66.2	73.1	85 M	86.2	96.0	96.3	92.2
	AV MIN	61.8	58.	54.2	47.4	41.6	32.0	38.[illegible]	40.0	41.2	45.0	3.8	59.3	62.[illegible]	61.9	60.4
	AVG	80.8	76.[illegible]	72.6	62.7	52.[illegible]	42.4	44.5	48.6	53.7	59.0	69 M	72.8	[illegible].4	79.2	6.3
TRANQUILLITY SUTZ	MAX	106	106	[illegible]	87	71	64	66	67	82	87	99	96	103	102	102
	MIN	[illegible]	[illegible]	43	43	26	24	29	30	[illegible]	39	42	48	50	55	4
	AV MAX	99.2	92.[illegible]	91.3	77.9	60.8	51.8	50.9	56.2	64.5	[illegible].4	86.0	86.4	96.1	[illegible]	91.4
	AV MIN	64.3	60.4	57.1	49.8	44.5	35.2	40.5	39.6	40.2	45.1	54.6	58.5	62.9	62.1	61.1
	AVG	81.	[illegible]	74.2	63.8	[illegible]	43.[illegible]	45.7	47.9	[illegible].4	58.8	70.3	72.4	79.5	[illegible].3	76.2
TULARE	MAX	109	104	[illegible]	88	76	66	6[illegible]	6[illegible]	90	89	[illegible]	98	[illegible]	[illegible]	108
	MIN	8	53	44	44	30	2[illegible]	30	30	34	41	45	53	56	[illegible]	52
	AV MAX	100.6	94.2	92.[illegible]	78.9	61.4	52.[illegible]	50.0	55.8	67.4	[illegible].5	87.[illegible]	88.6	100.1	100.[illegible]	95.5
	AV MIN	64.	60.3	56.2	49.[illegible]	44.4	35.4	40.7	40.6	41.3	45.1	55.6	59.[illegible]	64.7	6[illegible]	60.2
	AVG	82.6	77.2	74.4	64.[illegible]	52.9	44.0	45.4	48.2	54.4	61.3	71.6	74.2	82.4	82.	77.8
[illegible]	MAX	104	100	99	85	77	69	[illegible]3	70	92	85	97	98	[illegible]8	106	106
	MIN	9	[illegible] 2	46	46	29	21	30	30	34	4[illegible]	43	52	53	5	52
	AV MAX	95.6	8[illegible].1	88.4	[illegible].7	63.	56.7	53 M	60 M	68.8	73.4	85.3	90.[illegible]	100.7	99 M	95 M
	AV MIN	66.	61.	[illegible]8.	71.[illegible]	44.4	3 .2	42 M	42 M	41.8	47.	56.1	61 M	65 M	63 M	60 M
	AVG	81.4	[illegible].7	73.8	64.7	54.[illegible]	4 .9	48 M	51 M	[illegible].3	6 .4	69.9	76 M	83 M	81 M	[illegible] M
[illegible]	MAX	10[illegible]	[illegible]	102	[illegible]	[illegible]	[illegible]	75	68	[illegible]	89	102	96	106	105	106
	MIN	64	[illegible]	44	[illegible]	[illegible]	2[illegible]	35	36	34	42	49	[illegible]	62	61	54
	AV MAX	101.[illegible]	94.1	92.4	[illegible].8	64.8	[illegible].6	55.7	61.8	69.3	77.5	89.7	90.[illegible]	[illegible].0	102.6	95.
	AV MIN	[illegible].2	6.3	62.[illegible]	56.7	49.1	4 .1	44.6	43.4	46.4	51.6	[illegible].7	65.[illegible]	1.6	[illegible].1	66.
	AVG	85.6	[illegible].8	77.2	67.2	[illegible].0	46.8	50.2	52.1	57.8	64.6	74.7	77.5	85.8	85.3	[illegible]
[illegible]	MAX	[illegible]	[illegible]	[illegible]	88	[illegible]	[illegible]	83	[illegible]	81	85	[illegible]	100	[illegible]	106	[illegible]
	MIN	[illegible]	41	44	41	3[illegible]	24	2[illegible]	29	32	3[illegible]	48	48	[illegible]4	[illegible]3	47
	AV MAX	[illegible]	94.	93.2	78.6	62.2	54.[illegible]	51.1	55.	63.3	[illegible]	85.[illegible]	87.8	[illegible].1	101.3	95.1
	AV MIN	[illegible]	[illegible]	[illegible].4	48.1	41.6	33.4	37.7	36.[illegible]	38.9	44.8	[illegible].4	52.7	62.8	61.[illegible]	55.9
	AVG	[illegible]	6.[illegible]	[illegible].2	[illegible].4	[illegible].4	43.[illegible]	49.6	4[illegible].9	51.1	[illegible].2	68.	[illegible].4	81.4	81.2	75.[illegible]

TABLE A-4 (Cont.)

TEMPERATURE DATA

TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME		1968						1969								
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
PINEN	MAX	92	[illegible]	[illegible]	[illegible]	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	[illegible]	44	4[illegible]	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AV MAX	86.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	M	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AV MIN	62.2	46.6	54.4	47.[illegible]	39.[illegible]	M	[illegible]	[illegible]	[illegible]	[illegible]	M	[illegible]	[illegible]	[illegible]	[illegible]
	AVG	[illegible]4.4	69.2	[illegible]	[illegible]4	4[illegible]	M	[illegible]	[illegible]	[illegible]	[illegible]	M	62 M	[illegible]	[illegible]	[illegible]
KAWEAH RIVER C2																
TERMINUS DAM	MAX	106	[illegible]	[illegible]	[illegible]9	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	96	[illegible]	104	[illegible]	102
	MIN	6[illegible]	[illegible]	4[illegible]	4[illegible]	[illegible]	2[illegible]	[illegible]	[illegible]	[illegible]	41	44	2	[illegible]	[illegible]	[illegible]
	AV MAX	97.2	91.5	99.1	76.4	61.6	[illegible]	[illegible]	[illegible].2	[illegible]	[illegible]	94.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	AV MIN	67.9	61.8	66.1	13.[illegible]	46.4	[illegible]	4[illegible].4	[illegible]	44.4	[illegible]	[illegible]	[illegible].4	68.[illegible]	[illegible]	[illegible]
	AVG	82.[illegible]	76.6	7[illegible].1	64.[illegible]	54.[illegible]	4[illegible]	46.4	4[illegible]	54.3	[illegible]	[illegible]	2.2	[illegible].4	[illegible]	[illegible]
WHITAKER FOREST	MAX	92	[illegible]	87	78	6	M	M	M	M	M	M	[illegible]	[illegible]	[illegible]	[illegible]
	MIN	2	[illegible]	35	[illegible]	24	M	[illegible]	M	M	M	M	[illegible]	4	[illegible]	40
	AV MAX	84.	78.2	7[illegible]	66.6	[illegible].4	M	M	M	M	M	M	68 M	[illegible]2.2	[illegible]	[illegible]
	AV MIN	[illegible]	1.9	51.2	43.7	34.6	M	M	M	M	M	M	4 M	56.[illegible]	[illegible]	[illegible]
	AVG	[illegible]	[illegible]	6[illegible].0	.2	43.	M	[illegible]	M	M	[illegible]	M	[illegible] M	[illegible]	[illegible]	[illegible]
TULE RIVER C3																
SUCCESS DAM	MAX	106	104	101	89	77	[illegible]	[illegible]	[illegible]	[illegible]	84	[illegible]	98	104	104	[illegible]
	MIN	59	51	4[illegible]	45	35	[illegible]	[illegible]	[illegible]	34	38	42	[illegible]	6[illegible]	[illegible]	[illegible]
	AV MAX	98.[illegible]	92.2	91.1	77.6	62.[illegible]	[illegible]	2.8	[illegible]	64.6	[illegible]2.[illegible]	[illegible]4.4	88.1	97.[illegible]	[illegible]	[illegible]
	AV MIN	66.2	60.4	57.9	40.[illegible]	44.	[illegible]	33.4	[illegible]	42.3	48.[illegible]	[illegible]	[illegible]	[illegible]	64.1	[illegible]
	AVG	82.3	76.3	74.	64.2	5[illegible]	4[illegible]	46.1	4[illegible].6	53.4	59.8	6[illegible]	72.3	82.[illegible]	[illegible].4	[illegible]
GREENHORN MTN C4																
WOODY	MAX	103	102	98	[illegible]	[illegible]	[illegible]	7[illegible]	64	[illegible]3	82	96	[illegible]	104	[illegible]	[illegible]
	MIN	32	44	4[illegible]	39	29	19	21	27	2[illegible]	31	[illegible]	44	6[illegible]	52	[illegible]
	AV MAX	97.9	91.2	90.2	76.2	61.1	[illegible].7	53.0	53.[illegible]	[illegible].2	67.8	[illegible]3.4	85.6	94 M	99.2	94.[illegible]
	AV MIN	63.7	57.5	55.6	46.2	38.8	31.4	33.0	34.[illegible]	36.6	40.6	48.3	51.[illegible]	[illegible] M	62.2	44.[illegible]
	AVG	80.8	74.3	72.9	61.2	50.0	42.6	43.[illegible]	44.1	48.4	54.2	[illegible].8	68.6	[illegible] M	80.[illegible]	[illegible]
KERN RIVER C5																
ISABELLA DAM	MAX	103	103	100	89	75	68	[illegible]	62	81	81	93	4[illegible]	112	104	1[illegible]4
	MIN	[illegible]5	50	40	35	2[illegible]	1[illegible]	1[illegible]	27	26	30	36	[illegible]	[illegible]3	[illegible]	4
	AV MAX	96.1	89.9	90.9	78.3	64.5	[illegible].8	[illegible].2	[illegible].1	[illegible].6	[illegible].1	[illegible]	92.1	94.[illegible]	98.[illegible]	[illegible]2.
	AV MIN	64.1	59.3	53.5	44.8	37.3	29.7	31.4	34.4	35.4	41.4	[illegible]	57.4	62.8	[illegible]	[illegible].1
	AVG	80.3	74.6	72.2	61.6	50.9	40.8	44.3	42.2	47.5	54.2	[illegible]	69.8	[illegible]8.7	79.4	3.6
TEN HIGH MINE	MAX	RB	89	89	84	72	87	74	56	[illegible]	[illegible]	[illegible]	79	[illegible]	[illegible]	[illegible]
	MIN	RB	36	32	30	23	9	- 1	16	15	2[illegible]	2	41	46	4[illegible]	41
	AV MAX	RB	76.4	9.6	69.4	57.1	46.	49.6	42.[illegible]	49.5	[illegible]	68.3	69.2	[illegible]	M	[illegible]
	AV MIN	RB	50.2	48.9	41.9	33.3	26.4	30.5	2[illegible].1	[illegible].2	33.[illegible]	42.[illegible]	[illegible].1	54.6	M	[illegible]
	AVG	RB	63.3	64.2	[illegible].6	4[illegible].2	36.2	40.	[illegible].8	38.4	44.5	[illegible].1	[illegible].2	67.	M	[illegible]
TEHACHAPI MTN C6																
CUMMING VALLEY 2	MAX	96	90	89	84	82	68	[illegible]	62	72	[illegible]	[illegible]	84	92	4[illegible]	94
	MIN	38	32	22	[illegible]	[illegible]	1[illegible]	1[illegible]	22	19	26	26	32	36	[illegible]	[illegible]
	AV MAX	87.5	77.7	81.[illegible]	[illegible]2.	5[illegible].9	48.[illegible]	[illegible].6	46.[illegible]	[illegible].2	[illegible].4	[illegible]	[illegible].2	94.8	[illegible]	[illegible]
	AV MIN	48.[illegible]	45.0	40.[illegible]	33.2	[illegible].4	23.4	33.4	[illegible]	[illegible].8	33.[illegible]	[illegible]	[illegible].8	47.[illegible]	46.[illegible]	42.
	AVG	67.8	61.4	61.6	[illegible]2.6	4[illegible].2	36.6	42.0	[illegible]8.4	42.[illegible]	47.2	47.[illegible]	[illegible].3	66.2	66.[illegible]	[illegible]2.
KEENE	MAX	[illegible]8	98	94	89	[illegible]	68	[illegible]	64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	49	96
	MIN	4[illegible]	37	36	36	2[illegible]	14	19	28	26	[illegible]	[illegible]	44	4[illegible]	49	4[illegible]
	AV MAX	91.2	85.2	82.8	72.1	60.6	2[illegible].7	[illegible].3	[illegible]3.8	8.7	6[illegible]	76.[illegible]	[illegible]9	[illegible]	91.[illegible]	[illegible]
	AV MIN	59.3	53.2	51.9	46.2	38.8	32.6	36.8	34.6	36.5	3[illegible]	46.[illegible]	51.9	[illegible]	[illegible]9.1	[illegible]
	AVG	75.2	69.2	67.4	59.2	49.	42.6	4[illegible].3	44.3	47.6	[illegible]2.4	[illegible].6	[illegible].4	[illegible]	[illegible]	[illegible]
MIL PATERO	MAX	88	85	86	77	66	6	[illegible]	69	[illegible]	[illegible]	8	[illegible]	[illegible]	41	[illegible]
	MIN	44	59	26	32	2[illegible]	[illegible]	4	[illegible]	[illegible]	[illegible]	23	[illegible]2	42	41	[illegible]
	AV MAX	83.1	76.7	78.9	67.2	[illegible].5	41.6	49.2	43.[illegible]	48.[illegible]	[illegible]	[illegible]9.8	72.1	82.	86.[illegible]	[illegible]
	AV MIN	[illegible]2.2	46.3	44.6	39.5	32.2	26.5	29.4	22.1	24.	31.9	39.4	41.	49.[illegible]	[illegible]	4[illegible]
	AVG	67.6	61.5	61.8	[illegible].4	43.[illegible]	34.0	39.[illegible]	[illegible]3.[illegible]	[illegible]6.4	46.1	[illegible].6	[illegible].7	[illegible]6.[illegible]	[illegible]	[illegible]
TULARE I. BAS WESTSIDE C7																
CHICO RANCHO	MAX									RB	M	[illegible]	96	[illegible]	[illegible]	[illegible]
	MIN									RB	M	[illegible]	44	[illegible]	[illegible]	[illegible]
	AV MAX									RB	[illegible] M	[illegible].1	86.[illegible]	96.[illegible]	[illegible]	[illegible]
	AV MIN									RB	47 M	49.[illegible]	[illegible].4	[illegible]	[illegible].4	[illegible]
	AVG									RB	[illegible] M	[illegible]	[illegible].6	76.[illegible]	[illegible].8	[illegible]
COMENGINE RCH	MAX	[illegible]	[illegible]	98	89	[illegible]	[illegible]	[illegible]	64	[illegible]	83	96	94	1[illegible]4	[illegible]	[illegible]
	MIN	[illegible]4	51	50	46	39	28	32	[illegible]	[illegible]	44	41	3[illegible]	[illegible]	[illegible]	[illegible]
	AV MAX	96.8	90.5	88.[illegible]	76.8	60.[illegible]	[illegible]5.6	[illegible]	[illegible].2	62.5	[illegible]4.3	84.[illegible]	84.9	96.[illegible]	9[illegible]	[illegible].6
	AV MIN	68.	62.7	[illegible]1.8	[illegible].6	4[illegible]	38.9	3[illegible]	4[illegible].7	44.[illegible]	4[illegible]	[illegible]4.	56.4	6[illegible]	[illegible]	[illegible].3
	AVG	82.[illegible]	76.7	[illegible].2	65.7	53.[illegible]	47.2	44.[illegible]	48.[illegible]	[illegible].6	[illegible]	[illegible]	[illegible]	[illegible]2.2	[illegible].4	[illegible]
TAFT KTKR	MAX	106	104	100	88	76	[illegible]	[illegible]	[illegible]	88	[illegible]	[illegible]	98	1[illegible]6	1[illegible]4	[illegible]
	MIN	[illegible]	54	46	44	[illegible]	2	[illegible]	2[illegible]	34	4[illegible]	[illegible]	[illegible]	62	61	[illegible]
	AV MAX	[illegible].2	91.3	90.[illegible]	76.6	6[illegible]	4.8	[illegible]	[illegible]	[illegible]4.[illegible]	[illegible]	[illegible]2.[illegible]	[illegible]	[illegible] M	[illegible].2	[illegible]
	AV MIN	1.2	63.5	62.1	52.2	44.1	36.4	[illegible].2	[illegible]	4[illegible].2	47.[illegible]	[illegible].4	[illegible]	[illegible] M	[illegible].3	[illegible].6
	AVG	84.	77.4	76.3	64.[illegible]	[illegible]	45.6	4[illegible]	46.4	[illegible].4	[illegible].6	[illegible]	[illegible].4	84 M	84.2	[illegible].8

TABLE A-5

EVAPORATION DATA

The definition of terms and the abbreviations used in this table follows:

Evap	The total amount of water evaporated from the pan for the month.
Wind	The amount of movement of air over the pan in miles for the month.
Av Max	Arithmetical average of daily maximum water temperature for the month.
Av Min	Arithmetical average of daily minimum water temperature for the month.
-	No record.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

Wind and water temperature data are not available at all evaporation stations.

EVAPORATION IN INCHES
WIND MOVEMENT IN MILES
WATER TEMPERATURE IN DEGREES FAHRENHEIT

TABLE A-5

EVAPORATION DATA

STATION NAME		TOTAL JULY 1 TO JUNE 30	1968 JULY	1968 AUG	1968 SEPT	1968 OCT	1968 NOV	1968 DEC	1969 JAN	1969 FEB	1969 MAR	1969 APR	1969 MAY	1969 JUNE	1969 JULY	1969 AUG	1969 SEP	TOTAL OCT 1 TO SEPT 30
SAN JOAQUIN BASIN																		
SAN JOAQUIN VAL FL B0																		
KNIGHTS FERRY 2 SE	EVAP		1.82	.45	[illegible]	4.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]E	[illegible]E	[illegible]E	[illegible]	12.[illegible]	[illegible]	[illegible]	
	WIND	9280	954	872	[illegible]	41[illegible]	[illegible]4	4[illegible]	690	[illegible]	[illegible]	576	[illegible]	1043	[illegible]	[illegible]	[illegible]	
LOS BANOS FIELD STA	EVAP	89.66E	17.06	11.72	[illegible]	5.15	[illegible].69	[illegible].12	1.60	[illegible].42	4.26E	[illegible]	[illegible]	11.45E	16.[illegible]	14.41	[illegible]	[illegible]
	WIND	13532	3[illegible]	3241	2964	1650	1489	1[illegible]	1987	1959	2330	[illegible]	[illegible]	3125E	3[illegible]	2128E	2[illegible]	31[illegible]
WESTLEY	EVAP	[illegible].43E	11.12	[illegible].4	[illegible].53	5.[illegible]6	2.16	[illegible].93	[illegible].96	[illegible].5	3.[illegible]9E	[illegible]	11.[illegible]	[illegible].61	1[illegible].2[illegible]	10.84	[illegible].4	[illegible].41E
TUOLUMNE RIVER B4																		
DON PEDRO RES	EVAP	79.33E	15.84	2.[illegible]	[illegible].52	5.98	1.62	1.[illegible]	1.25E	[illegible]	3.61	.5[illegible]	[illegible].8	[illegible].2	14.[illegible]	12.68	[illegible].05	[illegible].74E
FRESNO-CHOWCHILLA R B6																		
CATHEYS VAL BULL RUN RE	EVAP	64.29	13.51	11.06	[illegible].48	4.33	1.3[illegible]	.38	1.20	1.3[illegible]	3.46	4.76	9.16	9.6[illegible]	12.[illegible]6	11.72	8.82	68.54
	WIND	-	1155	1264	1052	683	645	946	1012	1052	97	-		-	1068	95	78[illegible]	-
SAN JOAQUIN RIVER B7																		
FRIANT GOVERNMENT CAMP	EVAP	73.23	13.93	11.20	9.13	4.72	1.56	1.14	1.26	1.79	3.58	5.27	9.45	10.20	12.97	12.00	8.81	72.56
	WIND	14111	1137	1031	812	703	849	1102	1383	1733	1497	1169	1339	1356	1053	809	636	13629
	AV MAX		90.5	86.9	84.2	72.1	57.[illegible]	47.8	48.3	53.9	65.5	74.0	84.0	86.2	91.7	90.7	85.9	
	AV MIN		64.4	60.3	58.7	52.7	44.9	37.3	40.1	39.0	43.1	48.7	56.0	59.3	64.3	63.7	60.7	
SAN JOAQUIN VAL WESTSIDE B8																		
LITTLE PANOCHE DET DAM	EVAP	102.33	18.48	15.30	12.92	6.82	2.38	1.73	1.63	1.94	[illegible]	8.40	13.67	14.01	17.80	17.0[illegible]	11.[illegible]	101.66
	WIND	35541	3228	3467	3206	2553	2083	2265	2501	2614	2893	336	3519	3845	3199	2619	1986	33444
	AV MAX		90.6	86.6	84.8	73.7	59.8	50.4	50.3	54.4	65.7	73.1	83.8	85.9	90.4	89.0	85.9	
	AV MIN		61.6	58.1	56.4	49.6	45.3	37.1	39.4	41.0	43.1	46.6	53.9	56.8	60.3	58.6	59.8	
LOS BANOS DET RES	EVAP	105.42E	19.09	15.34	13.11	6.84	2.56	1.77	2.07	1.86	5.08E	8.83	14.22	14.65	17.22	16.66	11.70	103.64
	WIND	64398E	5999	6541	5496	4295	3496	4043	3849	4296	4968E	6343	6676	8396E	4953	4190	3619	59124
	AV MAX		90.1	85.5	84.6	73.3	60.[illegible]	50.9	50.5	53.8	59.8	72.3	83.6	81.2	88.8	90.1	86.3	
	AV MIN		60.8	58.2	57.3	51.3	47.1	38.5	40.3	40.9	43.8	48.1	53.8	56.9	61.5	60.6	60.5	
SAN LUIS DAM	EVAP	105.04	21.07	15.43	12.85	6.75	2.48	1.76	1.03	1.85	5.38	8.67	13.38	14.39	20.16	19.07	12.98	107.90
	WIND	52888	[illegible]243	6327	5591	3291	2002	2031	2021	2562	2988	4600	6074	8158	6959	4922	4769	52375
	AV MAX		89.1	86.5	84.8	74.5	61.1	51.6	50.2	55.8	70.3	76.6	83.4	81.9	91.7	92.9	88.1	
	AV MIN		58.1	57.6	56.2	52.5	47.2	39.1	39.8	40.9	44.8	47.3	51.9	54.7	61.1	62.0	61.2	
TULARE LAKE BASIN																		
TULARE L VAL FLOOR C0																		
CORCORAN EL BICO 1	EVAP	76.29	14.15	11.65	9.91	5.04	1.54	[illegible]	[illegible].45	[illegible].70	3.67	6.50	10.75	11.20	13.07	12.28E	8.91E	74.84E
	WIND	17695E	1550	1665	1380	1115	840	1250	1275	1235	1700	2040	1850E	1795	1300	1190E	1155E	16745E
DELANO GOVT CAMP	EVAP	70.44E	11.82	9.87	8.21	3.72	1.58	1.05E	0.80E	1.20	3.91	6.55	10.42	11.31	13.60	11.52	8.38	74.04E
KETTLEMAN CITY	EVAP	86.86	15.05	12.82	10.25	5.41	2.08	1.51	1.13	2.09	5.20	8.07	11.60	11.65	14.58	13.43	10.[illegible]	86.[illegible]
	WIND	15740E	1222	1414	1186	1089	811	1388	1643E	1809	1373	1475	1255	1075	960	736	682	14295E
OLD RIVER 3 SW	EVAP	68.02	11.32	9.30	7.29	3.66	1.88	1.65	1.14	1.85	4.02	5.75	9.33	10.83	15.91	13.[illegible]	10.64	80.39
	WIND	10926	959	924	695	758	614	998	1383	1074	898	679	858	1086	1621	1645	1354	12968
[illegible]S COTTON FIELD STA	EVAP	8.70	13.01	10.54	9.08	4.92	1.79	1.39	1.31	2.13	5.07	7.68	10.74	11.04	13.46	11.41	9.36	80.3[illegible]
	WIND	18176	1431	1292	928	1057	848	1296	1723	1598	1808	2287	1861	2045	1242	1006	1057	17832
KINGS RIVER C1																		
PINE FLAT DAM	EVAP	60.57	11.36	10.20	8.48	4.09	1.22	[illegible].72	0.48	0.80	2.82	4.49	7.73	8.18	11.02	10.[illegible]	7.46	59.7[illegible]
	WIND	7450	675	768	682	556	385	565	609	697	10	556	568	674	-	-	-	-
	AV MAX		97.8	92.8	90.1	74.[illegible]	59.3	49.6	49.6	55.0	68.1	79.8	91.[illegible]	91.6	99.1	97.5	91.8	
	AV MIN		66.2	62.1	59.2	52.4	45.6	37.9	40.4	39.4	43.8	50.2	57.8	61.[illegible]	66.4	65.0	61.8	
KAWEAH RIVER C2																		
TERMINUS DAM	EVAP	79.56	14.73	12.51	11.01	5.75	1.93	1.30	0.89	1.58	4.01	5.69	10.26	9.90	14.18	14.81	10.98	81.26
	WIND	20824	1698	1807	1924	1942	1554	1829	1712	1817	1652	1451	1752	1686	1956	2152	1890	21393
	AV MAX		94.4	91.4	87.9	75.0	62.6	52.0	52.4	57.2	70.9	79.6	89.0	90.0	95.[illegible]	94.0	89.6	
	AV MIN		66.2	61.8	59.2	53.1	47.6	40.2	42.4	42.3	45.3	51.3	57.1	62.6	67.9	66.5	63.9	
WHITAKER FOREST	EVAP	-	8.35	6.97	6.35	2.81	-	-	-	-	-	-	-	4.05	7.22	8.30	5.58	-
	WIND	-	974	761	777	556	-	-	-	-	-	-	-	310	312	213	301	-
TULE RIVER C3																		
SUCCESS DAM	EVAP	77.04	14.04	11.90	9.64	4.88	1.82	1.19	0.99	1.84	4.30	6.17	10.20	10.07	13.16	13.06	9.64	.32
	WIND	15091	1248	1365	1206	1249	974	1199	1159	1261	1418	1373	1326	1367	119	1299	1093	14865
	AV MAX		93.7	90.2	87.0	74.5	61.2	52.2	52.0	56.[illegible]	68.4	77.7	88.1	88.7	94.9	93.[illegible]	88.4	
	AV MIN		67.5	62.6	60.4	53.9	46.9	39.3	42.4	41.2	45.4	50.7	59.3	62.5	68.0	66.8	62.[illegible]	
KERN RIVER C5																		
ISABELLA DAM	EVAP	73.78E	12.70	11.06	9.31	5.34	2.54	1.31	1.40E	1.59	3.85	5.65	9.25	9.78	12.02	12.77	8.[illegible]	74.21E
	WIND	22442	1967	2048	1510	1487	1451	1575	1525	1852	2036	2315	2228	2418	1910	1897	1432	22156
	AV MAX		83.5	80.4	77.8	66.9	54M	43M	48M	49M	56.0	65.2	76.0	77M	84.2	82.5	78.4	
	AV MIN		59.6	56.1	52.1	45.[illegible]	38M	33M	36M	34M	35.3	43.3	49.6	53M	59.1	56.1	53.0	
TEHACHAPI MTN C6																		
CUMMINGS VALLEY	EVAP	74.96	10.94	9.88	9.29	4.40	3.16	3.89	[illegible].61	4.34	4.87	5.22	7.32	8.04	11.52	11.01	8.23	75.61
	WIND	24072	1091	1708	1381	1736	2143	3294	2134	2728	2878	2063	986	1930	1508	1261	1238	23899
TULARE L BAS WESTSIDE C																		
TAFT	EVAP	86.89	15.3[illegible]	13.03	11.41	5.62	2.2[illegible]	1.9[illegible]	1.48	2.11	4.[illegible]	7.01	10.91	11.19	14.90	14.[illegible]	10.35	86.95
	WIND	15360	1350	1540	1460	1010	77[illegible]	11[illegible]0	1360	1560	1390	1370	1290	1160	1[illegible]0	910	[illegible]E	1358[illegible]

TABLE A-6

CLIMATOLOGICAL STATION CHANGES
AND
RELOCATIONS

Changes in Station Names

New Name	Former Name	
Blackwells Corner 2 WNW	Blackwells Corner	9-29-69
Denair-Barfield	Denair-Chance	7- 1-68
Triangle Desmond	Triangle York	5- 9-69

Station Number Changes

	Old Number	New Number	
Pinecrest Summit R S	B3-6893-01	B3-6893	10- 1-69
Pinecrest Strawberry	B3-6893	B3-6893-01	10- 1-69

Equipment Changes and Relocations

Blackwells Corner	Equipment moved 1.5 mi. WNW	9-29-69
Corcoran El Rico 1	Equipment moved 5.9 mi. NE	4-11-69
Dusy Bench	Equipment moved 300 ft. WNW	9-11-69
Giant Forest	Recording raingage and thermometers moved 4 mi. NE	11- 8-68
Hilmar	Equipment moved .5 mi. South	5-23-69
Hodgdon Meadow	Equipment moved 600 ft. West	4-17-69
Panoche Water Dist.	Installed thermometers	3- 2-69
San Luis Canal Co.	Equipment moved 3.6 mi. NE	1- 2-68
South Dos Palos	Equipment moved .25 mi. SE	7- 1-67
Tehachapi	Equipment moved .3 mi. ESE	7-16-68
Triangle-York	Equipment moved .3 mi. West	5- 9-69

APPENDIX B

SURFACE WATER MEASUREMENT

INTRODUCTION

This appendix presents surface water data for the 1969 water year, which is from October 1, 1968 to September 30, 1969. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, additions and discontinuations, corrections and revisions to previously published reports, and discharge measurements at miscellaneous sites.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B

SAN JOAQUIN RIVER BASIN

B0 - San Joaquin Valley Floor

B3 - Stanislaus River

B4 - Tuolumne River

B5 - Merced River

B6 - Fresno-Chowchilla Rivers

B7 - San Joaquin River

B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor

C1 - Kings River

C2 - Kaweah River

C3 - Tule River

C4 - Greenhorn Mountains

C5 - Kern River

C6 - Tehachapi Mountains

C7 - Tulare Lake Basin on West Side

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page: Daily Mean Discharge	Page: Daily Mean Gage Height
Bean Creek near Coulterville	76	
Bear Creek below Bear Reservoir	66	
near Catheys Valley	65	
at McKee Road near Merced	67	
at Merced Irrigation District West Boundary	68	
Big Creek Diversion near Fish Camp	55	
Buena Vista Creek near Taft	105	
Burns Creek below Burns Reservoir	71	
at Hornitos	70	
Campbell-Moreland Ditch above Porterville	96	
Chowchilla River near Raymond	60	
West Fork near Mariposa	59	
Cross Creek below Lakeland Canal #2	92	
Delta-Mendota Canal near Tracy	51	
to Mendota Pool	52	
Dry Creek near Modesto	85	137
Eastside Bypass near El Nido	61	
Fresno River Eight Miles West of Madera	58	
Lewis Fork near Oakhurst	56	
Friant-Kern Canal Delivery to Porter Slough	93	
to Tule River	94	
Hubbs-Miner Ditch at Porterville	101	
James Bypass near San Joaquin	50	
Kaweah River Inflow to Tulare Lake	107	
Kern River near Bakersfield	104	
Inflow to Tulare Lake	108	
Kings River, South Fork, below Empire Weir #2	91	
Inflow to Tulare Lake	107	
Mariposa Creek near Catheys Valley	62	
below Mariposa Reservoir	63	
Maxwell Creek at Coulterville	77	
Merced River at Cressey	79	132
below Snelling	78	131
North Fork near Coulterville	75	
Miami Creek near Oakhurst	57	
Mustang Creek near Ballico	80	
Orestimba Creek near Crows Landing	81	
Owens Creek below Owens Reservoir	64	
Panoche Drain near Dos Palos	73	
Poplar Ditch near Porterville	100	
Porter Slough at Porterville	97	
Porter Slough Ditch at Porterville	98	
Rhodes-Fine Ditch near Porterville	102	
Salt Slough near Stevinson	74	
San Joaquin River at Crows Landing Bridge	82	134
near Dos Palos	54	
at Fremont Ford Bridge		130
below Friant	49	127
at Maze Road Bridge	87	140
near Mendota	53	
near Newman		133
above Sand Slough		128
near Stevinson	72	129
near Vernalis	90	144
Stanislaus River at Koetitz Ranch	89	143
at Orange Blossom Bridge	88	141
at Ripon		142
Tulare Lake		126
Total Inflow	106	
Tule River below Porterville	98	
Inflow to Tulare Lake	108	
Tuolumne River at Hickman Bridge	84	136
at La Grange Bridge	83	135
at Modesto		138
at Tuolumne City	86	139
Vandalia Ditch near Porterville	99	
Woods-Central Ditch near Porterville	103	

DIVERSIONS
- Deliveries from California Aqueduct . . . 124
- Deliveries from Central Valley Project Canals . . . 122
- Dry Creek . . . 118
- East Side Canals and Irrigation Districts . . . 121
- Merced River . . . 119
- San Joaquin River
  - Vernalis to Fremont Ford Bridge . . . 112
  - Fremont Ford Bridge to Gravelly Ford . . . 114
  - Gravelly Ford to Friant Dam . . . 115
- Stanislaus River . . . 116
- Tule River . . . 120
- Tuolumne River . . . 117

GAGING STATION ADDITIONS AND DISCONTINUATIONS . . . 47

IMPORTS AND EXPORTS . . . 125

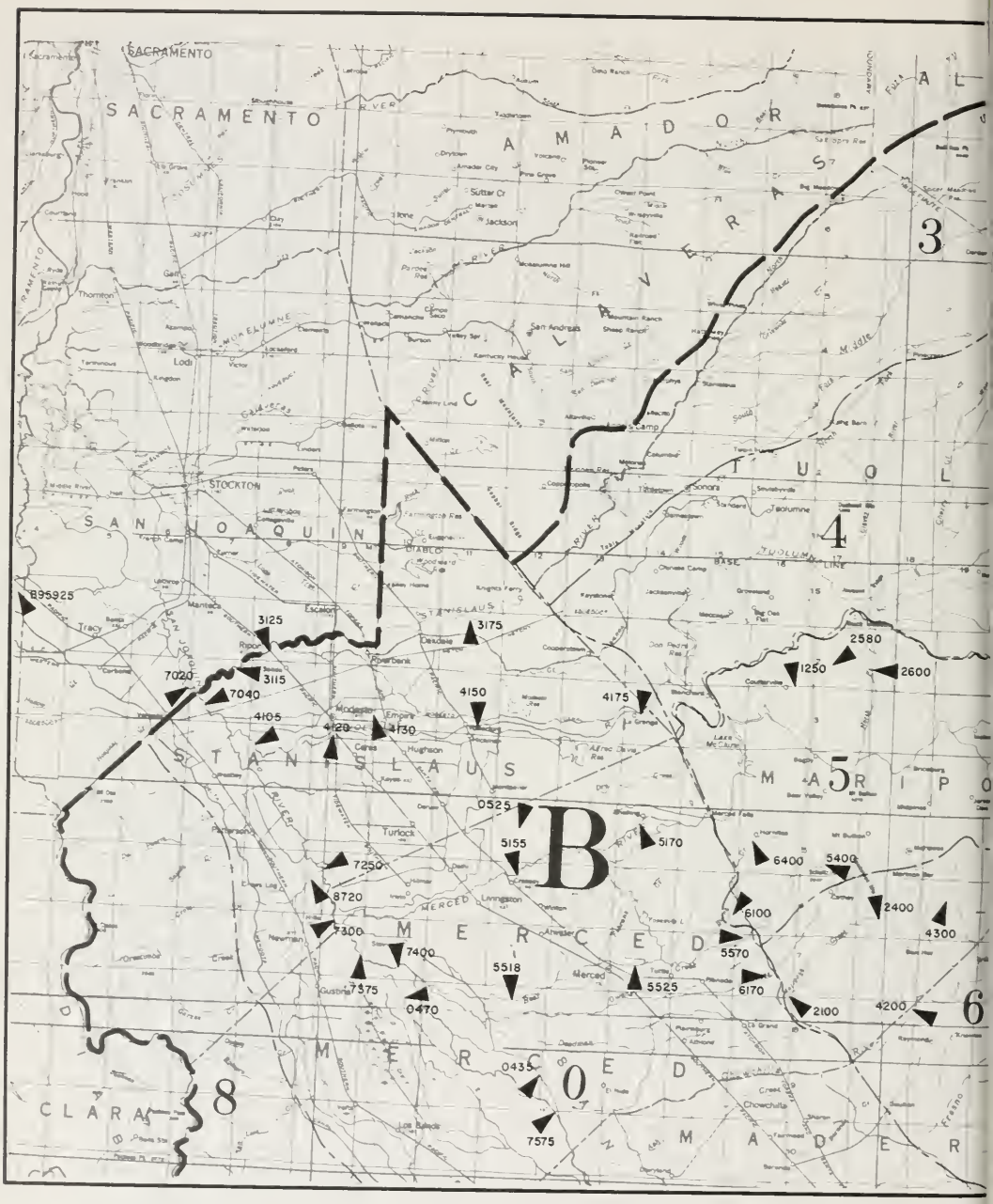
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS . . . 145

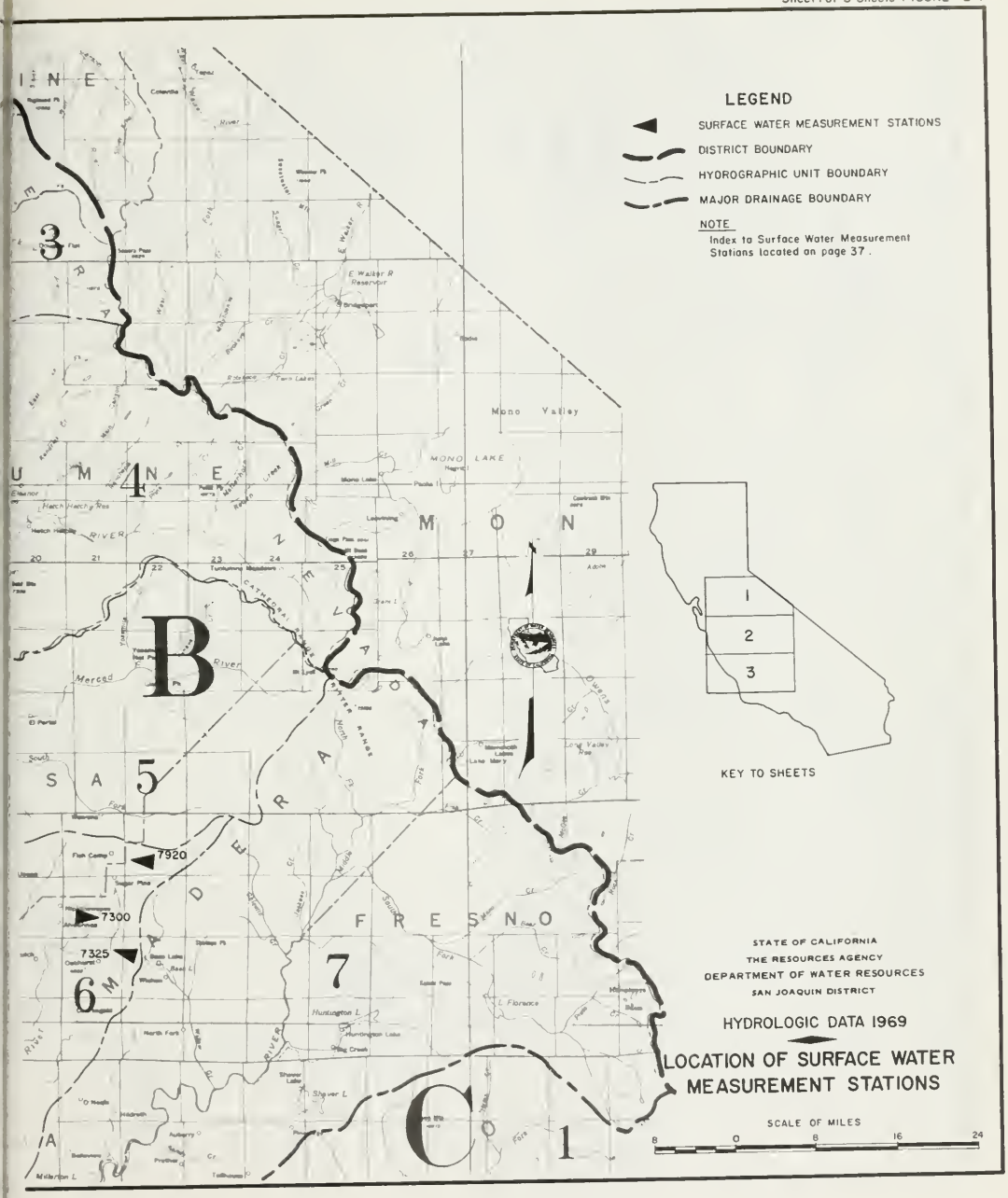
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS . . . 109

UNIMPAIRED RUNOFF
- Annual . . . 44
- Monthly . . . 46

HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS

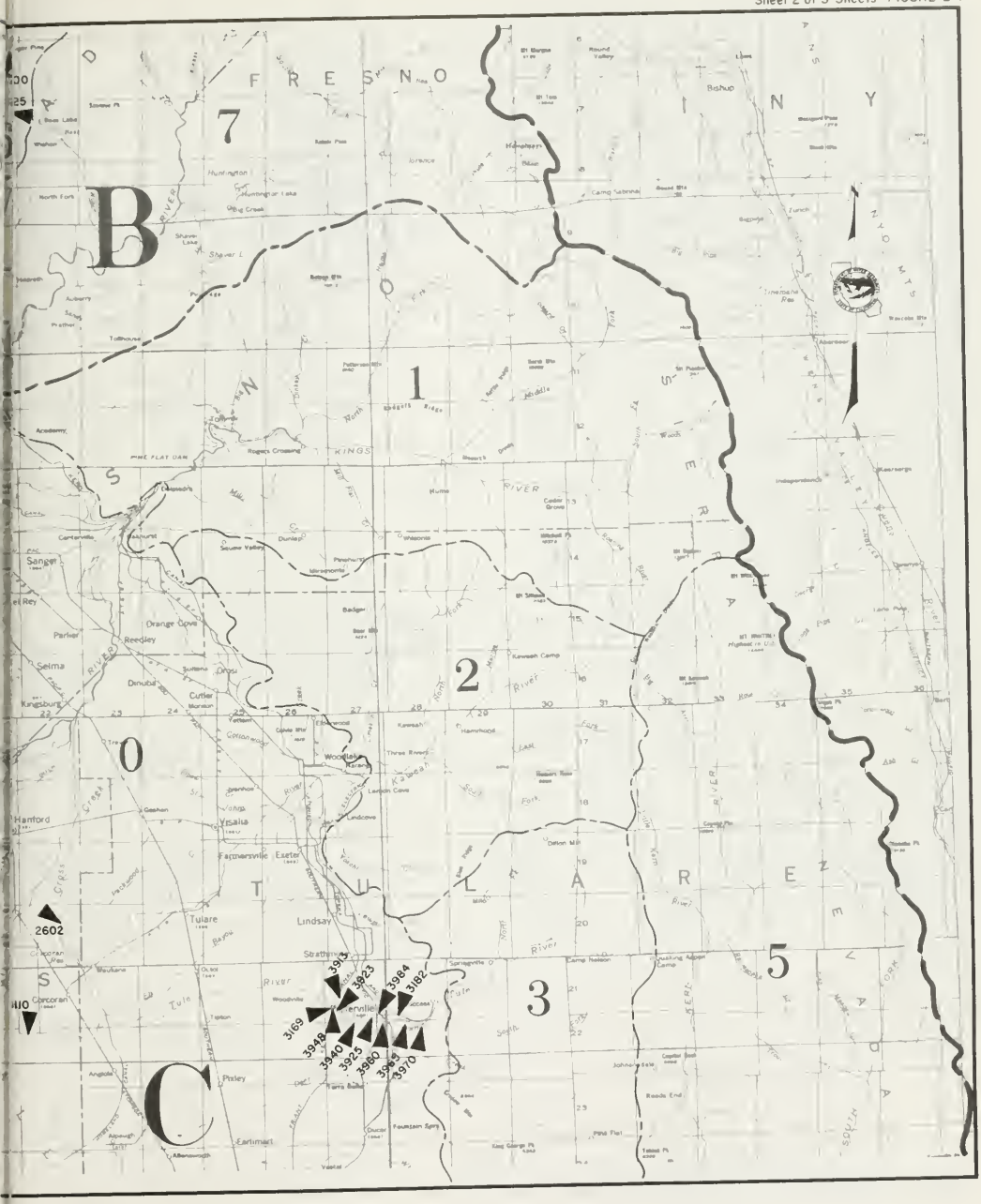
Station Number		Page: Daily Mean Discharge	Page: Daily Mean Gage Height
	HYDROGRAPHIC AREA B		
	SAN JOAQUIN VALLEY FLOOR		
B00435	Eastside Bypass near El Nido	61	
0470	Salt Slough near Stevinson	74	
0525	Mustang Creek near Ballico	80	
0770	Delta-Mendota Canal to Mendota Pool	52	
0975	Panoche Drain near Dos Palos	73	
3115	Stanislaus River at Koetitz Ranch	89	143
3125	at Ripon		142
3175	at Orange Blossom Bridge	88	141
4105	Tuolumne River at Tuolumne City	86	139
4120	at Modesto		138
4130	Dry Creek near Modesto	85	137
4150	Tuolumne River at Hickman Bridge	84	136
4175	at La Grange Bridge	83	135
5155	Merced River at Cressey	79	132
5170	below Snelling	78	131
5518	Bear Creek at Merced Irrigation District West Boundary	68	
5525	at McKee Road near Merced	67	
5570	below Bear Reservoir	66	
6170	Owens Creek below Owens Reservoir	64	
6725	Fresno River Eight Miles West of Madera	58	
7020	San Joaquin River near Vernalis	90	144
7040	at Maze Road Bridge	87	140
7250	at Crows Landing Bridge	82	134
7300	near Newman		133
7375	at Fremont Ford Bridge		130
7400	near Stevinson	72	129
7575	above Sand Slough		128
7610	near Dos Palos	54	
7710	near Mendota	53	
7885	below Friant	49	127
8720	Orestimba Creek near Crows Landing	81	
	MERCED RIVER		
B51250	Maxwell Creek at Coulterville	77	
2580	Bean Creek near Coulterville	76	
2600	Merced River, North Fork, near Coulterville	75	
5400	Bear Creek near Catheys Valley	65	
6100	Burns Creek below Burns Reservoir	71	
6400	at Hornitos	70	
	FRESNO - CHOWCHILLA RIVERS		
B62100	Mariposa Creek below Mariposa Reservoir	63	
2400	near Catheys Valley	62	
4200	Chowchilla River near Raymond	60	
4300	West Fork, near Mariposa	59	
7300	Miami Creek near Oakhurst	57	
7325	Fresno River, Lewis Fork near Oakhurst	56	
7920	Big Creek Diversion near Fish Camp	55	
	SACRAMENTO - SAN JOAQUIN DELTA		
B95925	Delta-Mendota Canal near Tracy	51	
	HYDROGRAPHIC AREA C		
	TULARE LAKE VALLEY FLOOR		
C00200	James Bypass near San Joaquin	50	
1120	Kings River, South Fork, below Empire Weir #2	91	
2602	Cross Creek below Lakeland Canal #2	92	
3110	Tulare Lake		126
3169	Tule River below Porterville	95	
3182	Porter Slough at Porterville	97	
3913	Friant-Kern Canal Delivery to Porter Slough	93	
3923	to Tule River	94	
3925	Hubbs-Miner Ditch at Porterville	101	
3940	Rhodes-Fine Ditch near Porterville	102	
3948	Woods-Central Ditch near Porterville	103	
3960	Poplar Ditch near Porterville	100	
3965	Vandalia Ditch near Porterville	99	
3970	Campbell-Moreland Ditch above Porterville	96	
3984	Porter Slough Ditch at Porterville	98	
5150	Kern River near Bakersfield	104	
7120	Buena Vista Creek near Taft	105	

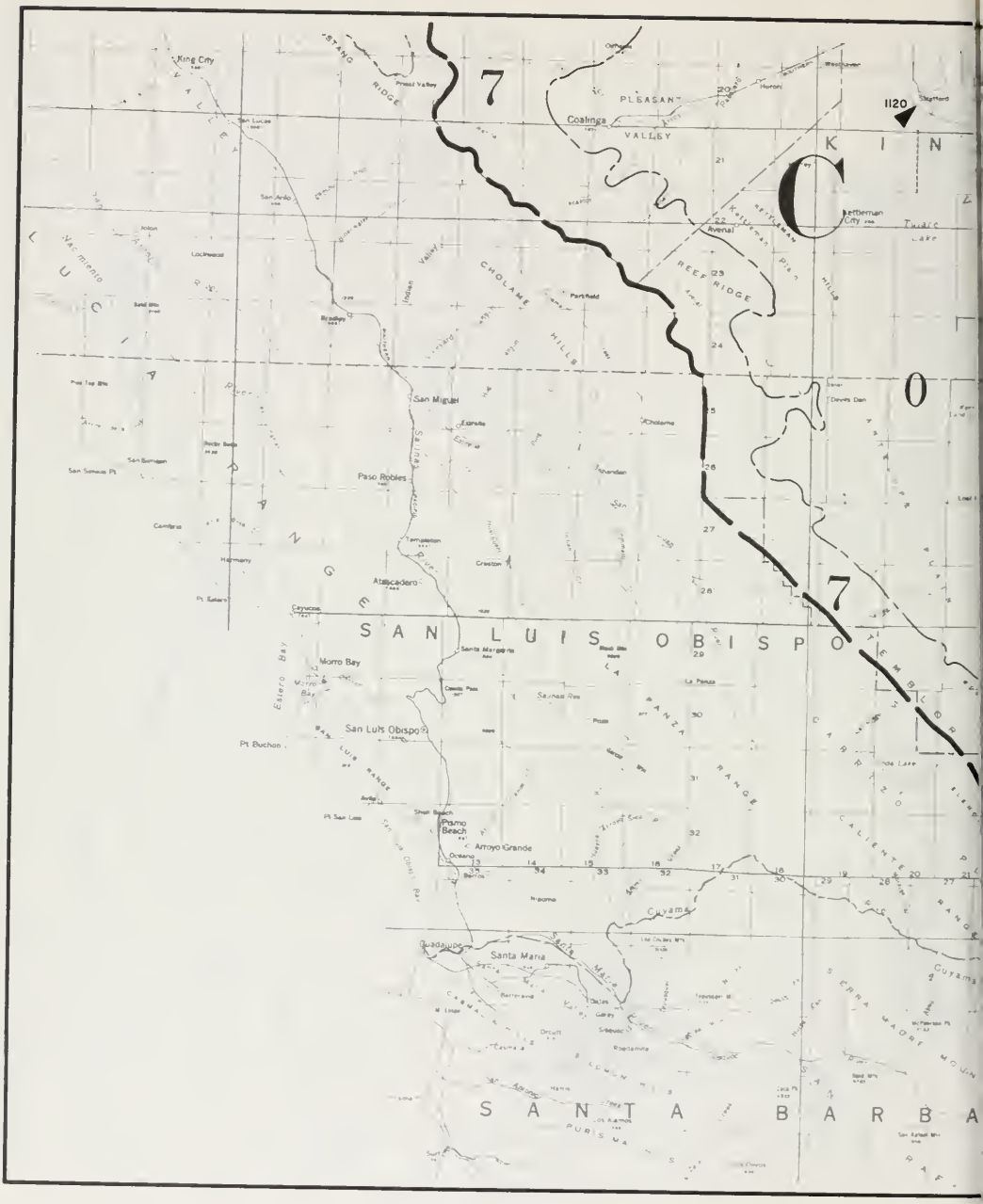

SACRAMENTO
SACRAMENTO
AMADOR
CALAVERAS
TUOLUMNE
SAN JOAQUIN
STANISLAUS
MERCED
MADERA
FRESNO
CLARA
Stockton
Lodi
Tracy
Ripon
Escalon
Modesto
Turlock
Merced
Chowchilla
3
4
5
6
8
B
895925
3125
3115
7020
7040
4105
4120
4130
3175
4150
4175
0525
5155
5170
7250
8720
7300
7400
7375
0470
5518
5525
0435
7575
1250
2580
2600
6400
5400
6100
5570
6170
2400
4300
2100
4200


LEGEND
SURFACE WATER MEASUREMENT STATIONS
DISTRICT BOUNDARY
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
NOTE
Index to Surface Water Measurement Stations located on page 37.
KEY TO SHEETS
1
2
3
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1969
LOCATION OF SURFACE WATER MEASUREMENT STATIONS
SCALE OF MILES
8 0 8 16 24
7920
7300
7325
Mono Valley
MONO LAKE
Merced River
Huntington L.
Shaver L.
Millerton L.

7250
8720
5155
7300
7400
6100
2400
4300
5570
7375
5518
5525
6170
2100
4200
0470
0435
7575
7610
6725
0975
7710
0770
0200
1120
B
C
O
6
8
7
MERCED
MADERA
KERN
SAN BENITO
PANOCHE HILLS
PLEASANT VALLEY
Coalinga
Madera
Chowchilla
Dos Palos
Kettleman City
Tulare Lake
Soledad
Greenfield
King City
Mustang Ridge
Reef Ridge
Cholane
Kettleman Plain

Sheet 2 of 3 Sheets FIGURE B-1




King City
Pleasant Valley
Coalinga
PLEASANT
VALLEY
1120
Avenal
Kettleman City
Tulare Lake
REEF RIDGE
CHOLAME HILLS
Parkfield
San Miguel
Paso Robles
Atascadero
Cambria
Harmony
Morro Bay
San Luis Obispo
Pt Buchon
Pismo Beach
Arroyo Grande
Guadalupe
Santa Maria
Cuyama
Santa Barbara
SAN LUIS OBISPO
SANTA BARBA
7
7
0

Tulare
Lindsay
Strathmore
Porterville
Pixley
Earlimart
Delano
McFarland
Wasco
Shafter
Oildale
BAKERSFIELD
5150
Edison
Lamont
Weed Patch
Arvin
Tehachapi
Ford City
Taft
Fellows
7120
Mojave
Lancaster
3913
3923
3984
3182
3169
3948
3940
3925
3960
3965
3970
3502
2
3
4
5
6
7
C
O
K
E
R
N
T
U
L
A
R
E
V
A
D
A
GREENHORN MOUNTAINS
SOUTH FORK
KERN RIVER
ELK HILLS
ANTELOPE VALLEY

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1915 through September 1965.

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Varnalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1050	1741	897	1617	7312	1530	[illegible]	124	604
1928-29	49	56	54	53	54	56	[illegible]		
1929-30	69	66	57	53	61	56	[illegible]		[illegible]
1930-31	30	35	29	30	31	30	30	20	31
1931-32	128	121	124	127	123	136	136	112	119
1932-33	58	64	57	69	63	77	74	65	71
1933-34	40	47	40	43	43	4[illegible]	34	16	38
1934-35	115	121	131	119	121	106	93	72	76
1935-36	125	125	128	115	122	123	127	138	124
1936-37	105	115	135	137	123	153	177	247	183
1937-38	193	197	232	228	212	214	227	287	213
1938-39	50	57	53	57	55	64	65	67	75
1939-40	133	128	122	116	124	117	134	170	115
1940-41	127	144	162	164	150	160	167	191	206
1941-42	141	136	143	139	139	131	128	110	124
1942-43	148	136	144	127	137	132	175	295	166
1943-44	64	75	76	78	74	76	82	83	96
1944-45	121	121	122	132	124	135	144	164	134
1945-46	111	108	105	107	108	105	93	76	107
1946-47	60	63	63	70	64	72	69	42	70
1947-48	85	81	77	75	79	65	68	52	55
1948-49	71	72	71	72	72	63	57	39	49
1949-50	102	89	80	81	88	84	79	50	72
1950-51	160	143	137	115	131	105	110	125	88
1951-52	182	172	174	176	179	187	215	259	231
1952-53	92	88	70	76	82	76	80	80	90
1953-54	84	83	74	81	81	85	80	72	83
1954-55	64	65	60	72	66	72	72	52	59
1955-56	178	182	187	183	182	166	189	169	144
1956-57	85	82	72	82	81	81	77	53	72
1957-58	159	152	157	163	157	161	167	180	174
1958-59	55	57	51	59	56	53	40	26	45
1959-60	56	61	54	51	56	47	47	39	46
1960-61	38	42	35	40	40	37	30	16	29
1961-62	94	102	103	119	106	120	104	70	108
1962-63	120	118	110	120	118	122	130	96	122
1963-64	62	65	50	57	60	56	61	49	52
1964-65	168	159	149	141	153	126	127	110	114
1965-66	67	76	75	80	79	79	64	38	66
1966-67	183	179	191	200	188	212	267	302	261
1967-68	61	59	47	53	55	52	56	52	76
1968-69 (c)	209	213	245	250	224	277	338	404	366

(a) Average unimpaired runoff in thousands of acre-feet computed from the [illegible]-year period October 1915 through September 1965.
(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.
(c) Percent figures are preliminary figures and subject to revision.

TABLE B-2

MONTHLY UNIMPAIRED RUNOFF

In percent of average[a]

Month		Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	76	95	0	84	75	83	100	20	88
	Average	8	15	7	18	49	18	4	1	14
November	Percent	148	210	128	142	166	117	99	54	83
	Average	23	39	18	28	107	26	8	4	17
December	Percent	102	96	86	91	94	87	67	69	74
	Average	48	84	43	57	233	48	17	8	23
January	Percent	638	635	730	661	660	754	1005	857	649
	Average	54	90	48	60	251	52	18	12	24
February	Percent	225	195	272	254	231	254	386	472	291
	Average	82	137	79	92	390	79	28	18	32
March	Percent	136	130	179	178	153	173	255	291	286
	Average	113	171	92	128	503	106	38	24	45
April	Percent	168	159	181	196	175	185	232	349	391
	Average	199	283	148	237	867	215	64	24	86
May	Percent	214	207	237	261	230	265	280	350	418
	Average	287	440	239	420	1386	421	101	21	142
June	Percent	156	206	238	238	214	288	334	513	393
	Average	177	352	168	368	1064	368	74	9	123
July	Percent	348	309	330	314	319	427	573	938	397
	Average	48	104	44	148	344	138	23	2	59
August	Percent	250	329	297	317	308	410	607	1283	380
	Average	12	18	9	43	83	40	6	1	24
September	Percent	203	57	238	228	187	281	350	1000	306
	Average	6	8	4	18	36	17	3	0	14
1968-69	Percent	209	213	245	250	229	277	330	404	366
Water Year	Average	1057	1741	897	1617	5312	1530	383	124	604

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1915 through September 1965.
(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS		Date
*B00525	Mustang Creek near Ballico	10-1-68
*B05518	Bear Creek at Merced I.D. West Boundary near Merced	10-1-68
*B05525	Bear Creek at McKee Road near Merced	10-1-68
*C00200	James Bypass near San Joaquin	10-1-68

DISCONTINUED STATIONS		
C03940	Rhodes-Fine Ditch near Porterville	9-30-69

* Publication of data only. Station previously installed.

TABLE B-4

DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

NOTE

A comprehensive alphabetical list of historical, as well as current, streamflow gaging stations is published in the Department of Water Resources pentannual report, "INDEX OF STREAM GAGING STATIONS IN AND ADJACENT TO CALIFORNIA", last published in September 1966.

The index contains the period of record--with number of years missing--and more information for 781 stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-4

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	104	81	56	37	7560	6390	6330	6[illegible]	811[illegible]	194[illegible]	163	[illegible]4	1
2	106	83	56	37	7790	6980	543[illegible]	7[illegible]	[illegible]	1940	165	54	2
3	106	84	56	38	7790 *	7050	4480	7000	97[illegible]	19[illegible]	165	[illegible]4	3
4	106	76	56	38	7860	7180	4100	6510	10800	1960	165	[illegible]4	4
5	106	71	47	40	7900	7430	425[illegible]	5090	1820	1960	161	49	5
6	104	71	32	40	7650	7860	5120	3065	24[illegible]0 *	197[illegible]	163	4[illegible]	6
7	104	65	32	41	7580	8120	5860	6430	123[illegible]0	1780	160	49	7
8	104	58 *	32	41	7680	8190	6200	7940	123[illegible]0	1[illegible]	136	4[illegible]	8
9	97	58	32	41	7700	8210	6820	8140	124[illegible]0 *	994	[illegible]	46	9
10	93	54	33	42	7770	7610	6250	8090	123[illegible]0	994	1[illegible]8	46	10
11	84	47	32	42	7830	7790 *	5050	8090	11900	994 *	108	[illegible]2	11
12	81	48	32	42	7790	7990	4290	8020	10600	994	106	83	12
13	83	48	32	65	7790	8010	4100	7980	9440	994	106	[illegible]	13
14	69	50	34	111	7560	8150	4360	8020	8860	994	88	7[illegible]	14
15	58	50	34	62	7410	8190	4840	8090	8860	1000	76	75	15
16	57	50	33	54	7360	8240	4800	8140	886[illegible]	1000	[illegible]6	76	16
17	52	50	33	52	7310	8260	4290	8050	8860	822	8[illegible]	80	17
18	48	50	33	69	7180	8280	3960 *	8020	8860	305	8[illegible] *	80	18
19	48	51	34	287	6790 *	8310	3780	8090	8360	151	8[illegible]	80	19
20	48	51	34	201	6820	8330	3780	8090	[illegible]310	125	[illegible]	80	20
21	48	51	33	470	6660	8150	3790	8020	6170	123	76	80	21
22	48	51	33	267	6600	8260	3470	8070	5260	136	73	76	22
23	48	51	34	302	6680	8300	3100	8070	4010 *	160	[illegible]3	76	23
24	51	51	35	1200	5510	8370	3100	8070	2260	208	76	76	24
25	58	51	37	3080	4510	8390	2960	8090	1900	262 *	78	76	25
26	63	51	38	3300 *	5420	8400	2560	8070	1910	245	68	76	26
27	69	51	37	3500	6090	7670	2750	807[illegible] *	1910	205	52	75	27
28	74	52	37	5170	6220	6490 *	2870	8070	1920	165	52	73	28
29	83	54	37	6900 *		5990	3730	8110	1930	163	54	73	29
30	83	54 *	37	6970		5960	5640	8050	1930	163	54	73 *	30
31	81		37 *	7220		6300		8120		163	54		31
MEAN	76.3	57.1	37.4	1283	7100	7705	4402	7594	7724	845	99.6	67.2	MEAN
MAX.	106	84	56	7220	7900	8400	6330	8140	12400	1970	165	83	MAX.
MIN.	48	47	32	37	4510	5960	2560	3060	1900	123	52	46	MIN.
AC. FT.	4690	3400	2300	78860	394300	473800	261900	466900	459600	51950	6120	4000	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
3050	12400	11.69	6	6	1500	32	[illegible]	12	6		2208[illegible]

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT [illegible]7-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	2761	3939	4749	4560	5180	4264	920		1
2				0	2955	4150	4760	4610	5170	4050	936		2
3				0	2965	4080	4770	4630	5200	3950	834		3
4				0	2970	4280	4780	4660	5250	3676	732		4
5				0	2970	4430	4800	4710	5340	3341	552		5
6				0	3008	4630	4860	4810	5530	2596	502		6
7				0	3040	4650	4910	4850	5570	2148	376		7
8				0	3190	4710	4820	4820	5530	1875	172		8
9				0	3260	4780	4870	4860	5550	1821	120		9
10				0	3270	4830	4850	4860	5570	1634	92		10
11				0	3235	4830	4820	4900	5570	1466	65		11
12	N	N	N	0	3234	4820	4820	4910	5540	1454	28	N	12
13	O	O	O	0	3370	4790	4800	4900	5540	1764	2	O	13
14				0	3370	4750	4770	4920	5520	1980	0		14
15				0	3320	4680	4750	4910	5490	2043	0		15
16	F	F	F	0	3355	4670	4670	4930	5470	2310	0	F	16
17	L	L	L	0	3385	4710	4620	4940	5420	2536	0	L	17
18	O	O	O	0	3390	4740	4610	4980	5370	2584	0	O	18
19	W	W	W	0	3380	4740	4590	4990	5370	2596	0	W	19
20				0	3425	4770	4600	4980	5310	2283	0		20
21				384	3445	4790	4570	4970	5250	2028	0		21
22				1957	3405	4800	4550	5000	5240	1917	0		22
23				1979	3432	4770	4490	4990	5230	1770	0		23
24				2163	3484	4720	4520	5040	5190	1635	0		24
25				531	3650	4710	4570	5070	5210	1468	0		25
26				456	3915	4700	4560	5110	5180	1389	0		26
27				2591	4025	4720	4530	5130	5170	1258	0		27
28				3401	3603	4720	4530	5130	5160	1233	0		28
29				1931		4720	4530	5140	5130	1251	0		29
30				1675		4750	4520	5150	5160	1338	0		30
31				2345		4770		5140		1182	0		31
MEAN				626	3315	4650	4686	4923	5347	2156	172		MEAN
MAX.				3401	4025	4830	4910	5150	5570	4264	936		MAX.
MIN.				0	2761	3939	4490	4560	5130	1182	0		MIN.
AC. FT.				38510	184090	285920	278860	302680	318170	132580	10570		AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
= — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
2143	5600	12.22	6	7	0100	[illegible]		10	1	0000	1551360

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 39 06	120 10 45	SW 1 15S 16E				MAY 27-DATE					

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin.

James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions.

This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period are available from their office in Sacramento.

Altitude of gage is 165 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3945	3196	863	2566	3386	3122	[illegible]	1411	1881	1933	4153	3235	1
2	3950	3186	861	2523	3388	3421	1816	2170	1881	1929	4141	3185	2
3	3952	3189	859	2544	2867	2908	1824	2180	1876	1961	4143	2733	3
4	3940	3226	677	2579	2865	2923	1750	2178	1942	1959	4218	2377	4
5	4419	3235	679	2578	2868	2895	1752	2177	1866	1954	4914	2404	5
6	4887	3128	213	2644	2872	2890	1738	2243	1941	1881	4924	2283	6
7	3908	2049	249	2866	2863	2882	1747	2916	1974	1044	4932	2076	7
8	4408	2054	250	2875	3046	3078	1724	2952	1967	1161	4932	1985	8
9	4406	3110	214	2869	3366	3377	1694	3009	1682	1333	4928	1734	9
10	4412	3110	180	2866	2866	2869	1693	3120	1539	2263	4927	1733	10
11	4421	3050	180	3067	2880	2865	1765	3122	1737	2726	4935	1733	11
12	4435	2717	179	3376	2891	2863	2348	3128	1796	2965	4931	1730	12
13	4906	2765	180	2859	2890	2868	2340	2827	1842	2900	4930	1737	13
14	4426	2955	216	2862	2894	2862	2452	2032	1845	2455	4927	1736	14
15	4413	2654	216	2858	3107	3053	2442	2070	1844	2453	4916	1736	15
16	4402	2909	215	2831	3417	3228	2438	1997	1844	2443	4915	1800	16
17	4409	2906	212	2841	2898	1307	2582	1890	1843	2354	4919	1951	17
18	4029	3022	212	3036	2903	1283	2611	1897	1843	2354	4908	2085	18
19	3152	3046	321	3364	2896	1285	2604	1897	1818	2350	4688	2092	19
20	4137	2776	390	2864	2888	1385	2601	1825	1997	2349	4732	2038	20
21	3144	935	888	2869	2888	1386	2354	1771	1995	2416	4481	2037	21
22	2886	936	2517	2873	3397	1313	1887	1822	1964	3189	3619	2035	22
23	1465	1077	1980	2876	3400	145	1888	1881	1934	3126	3922	1996	23
24	1611	1079	2039	2874	2892	510	1624	1954	1932	3457	3904	2285	24
25	2708	1077	2818	3090	2892	783	1192	1954	1979	3556	3908	2658	25
26	3397	1173	2819	3408	2893	1887	1191	1951	1968	4244	3836	2726	26
27	3792 a	1179	2810	2893	2898	1991	1170 b	1957	1997	4310	3669	2863	27
28	3246	1107	3014	2910	2907	1745	1181	1858	1994	4245	3565	2796	28
29	3443	1105	2883	2899		1748	1187	1861	1984	4173	3440	2756	29
30	3431	932	2543	2896		1749	1248	1867	1990	4174	3057	2730	30
31	3238		2584	2889		1750		1873		4126	2912		31
MEAN	3784	2296	1105	2882	2997	2205	1887	2187	1890	2703	4365	2242	MEAN
MAX.	4906	3235	3014	3408	3417	3421	2611	3128	1997	4310	4935	3235	MAX.
MIN.	1465	932	179	2523	2863	145	1170	1411	1539	1044	2912	1730	MIN.
AC. FT.	233010	136630	67960	177210	166450	135610	112160	134460	112450	166180	268420	133420	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a — 23-HOUR DAY
b — 23-HOUR DAY

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
2547											1843960

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT DHLT	PERIOD FROM	TO	ZERO ON GAGE	REF DATUM
37 47 45	121 35 05	SW 31 1S 4E				JUN 51-DATE		1951		0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1807	444	175							0	1829	2144	1
2	1691	444	175							0	1828	2081	2
3	1709	444	175							0	1828	1860	3
4	1719	448	274							0	1887	1746	4
5	1719	417	0							0	2425	1740	5
6	1720	389	0							0	2680	1739	6
7	1703	415	0							0	2772	1738	7
8	1606	418	0							0	2506	1734	8
9	1558	350	0							0	2505	1585	9
10	1542	350	0							0	2505	1483	10
11	1470	350	0							583	2422	1421	11
12	1445	357	0	N	N	N	N	N	N	500	2528	1507	12
13	1427	385	0	O	O	O	O	O	O	425	2535	1359	13
14	1455	310	0							133	2565	1358	14
15	1336	336	0							0	2597	1469	15
16	1272	425	0	F	F	F	F	F	F	0	2597	1600	16
17	1255	425	0	L	L	L	L	L	L	0	2596	1737	17
18	1106	374	0	O	O	O	O	O	O	0	2600	1736	18
19	850	356	0	W	W	W	W	W	W	0	2602	1621	19
20	850	361	0							0	2476	1553	20
21	890	290	0							0	2339	1553	21
22	877	335	0							957	2310	1566	22
23	871	373	0							835	2315	1591	23
24	837	374	0							1084	2322	1748	24
25	866	378	0							1128	2375	1827	25
26	771 a	361	0							1667	2320	1897	26
27	773	302	0							1824	2249	1965	27
28	764	302	0							1824	2226	1966	28
29	724	300	0							1764	2192	2020	29
30	638	264	0							1735	2146	1972	30
31	459		0							1904	2145		31
MEAN	1216	369	25.8							528	2362	1711	MEAN
MAX.	1807	448	274							1904	2772	2144	MAX.
MIN.	459	264	0							0	1828	1358	MIN.
AC. FT.	74860	21970	1580							32460	145230	101820	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a - 25-HOUR DAY

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
522											377920

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 47 11	120 23 05	NW 19 13S 15E				JUL 51-DATE					

Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	210	101	90	21	4074	4187	4391	3776	4338	3579	481	308	1
2	188	100	90	18	4570	4435	4180	3615	4375	3368	470	325	2
3	174	96	90	16	4800	4641	4158	3558	4422	3154	452	288	3
4	156	95	90	15	4880	4720	3948	3753	4705	3252	457	237	4
5	144	86	90	12	4880	4904	3893	3774	4912	3111	452	330	5
6	149	75	89	10	4832	4984	4158	3809	5104	2653	439	331	6
7	152	70	88	7	4832	5136	4428	4178	5554	2128	459	326	7
8	150	76	84	4	4904	5264	4390	4158	5752	1585	446	322	8
9	152	83	82	2	4976	5344	4405	4188	5760	1398	425	309	9
10	154	82	80	0	5072	5424	4585	4218	5912	1225	418	302	10
11	154	79	78	0	5104	5440	4622	4210	6080	1034	416	304	11
12	152	79	74 E	0	5112	5416	4570	4218	6240	707	422	305	12
13	154	77	71 E	0	5160	5336	4465	4202	6320	698	423	301	13
14	152	76	68 E	4	5216	5264	4367	4142	6344	722	421	300	14
15	156	73	64 E	6	5088	5280	4263	4038	6320	695	417	301	15
16	161	71	60 E	12	4856	5304	4225	3970	6304	668	414	302	16
17	166	71	57 E	16	4784	5328	4120	3992	6232	692	412	308	17
18	172	69	54 E	19	4832	5368	3928	3985	6128	788	408	312	18
19	168	73	50 E	20	4896	5416	3753	4068	5968	857	392	314	19
20	168	92	46 E	20	4968	5424	3683	4158	5816	755	384	313	20
21	167	96	43 E	31	4928	5440	3669	4120	5168	602	384	313	21
22	167	95	40 E	688	4832	5364	3613	4075	4385	580	382	312	22
23	166	94	36 E	1900	4800	5128	3522	4045	4150	568	371	314	23
24	164	92	32 E	2722	4844	5160	3445	4008	3877	540	368	322	24
25	164	92	29 E	2270	4984	5256	3452	4090	3788	528	366	331	25
26	162	92	26 E	1112	5350	5022	3480	4210	3711	508	366	332	26
27	161	92	22 E	1144	4784	4895	3452	4278	3697	500	366	332	27
28	161	92	18 E	2516	4592	4269	3389	4352	3690	502	360	331	28
29	161	92	15 E	3965		4864	3312	4338	3669	502	332	330	29
30	160	92	12 E	3571		4800	3501	4308	3648	483	305	285	30
31	134		8 E	3669		4744		4322		479	304		31
MEAN	161	85	57 E	767	4891	5105	3979	4070	5079	1254	404	311	MEAN
MAX.	210	101	90	3965	5350	5440	4622	4352	6344	3579	481	332	MAX.
MIN.	134	69	8 E	0	4074	4187	3312	3558	3648	479	304	237	MIN.
AC. FT.	9920	5060	3520E	47190	271640	313880	236760	250230	302220	77080	24820	18530	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2156	6360	14.75	6	14	1700	0		1	10	0000	1560850

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 48 37	120 22 35	SW 7 13S 15E	11740a	13.75	6-20-41			1939	1953	142.53	USBR
			8840		6- 1-52	OCT 39-DATE		1954		140.53	USBR

Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	3780	4570	4262	3017	3720	3044			1
2				0	4318	4410	3790	3170	3720	2970			2
3				0	4720	4810	3690	3020	3710	2700			3
4				0	4910	4870	3600	3080	3820	2592			4
5				0	4960	5010	3340	3170	4130	2709			5
6				0	4990	5110	3590	3190	4280	2241			6
7				0	4960	5190	3830	3360	4720	1552			7
8				0	4980	5320	4030	3650	5220	1050			8
9				0	5040	5430	3870	3590	5370	574			9
10				0	5080	5520	4030	3630	5484	525			10
11				0	5100	5540	4140	3640	5550	288			11
12	N	N	N	0	5109	5540	4158	3620	5640	235	N	N	12
13	O	O	O	0	5150	5500	4050	3650	5750	176	O	O	13
14				0	5170	5330	3970	3640	5820	166			14
15				0	5200	5300	3810	3590	5870	152			15
16	F	F	F	0	4970	5310	3720	3420	5890	120	F	F	16
17	L	L	L	0	4820	5290	3670	3420	5830	80	L	L	17
18	O	O	O	0	4830	5280	3520	3440	5770	126	O	O	18
19	W	W	W	0	4840	5280	3290	3450	5690	250	W	W	19
20				0	4880	5290	3140	3600	5540	278			20
21				0	4900	5300	3080	3630	5313	128			21
22				34	4880	5310	3060	3570	4390	51			22
23				728	4830	5380	2990	3550	3823	37			23
24				1741	4850	5290	2871	3470	3615	19			24
25				2476	4910	5340	2835	3510	3280	16			25
26				1780	5300	5360	2844	3600	3222	5			26
27				957	5230	4940	2862	3700	3162	0			27
28				1385	4900	4690	2790	3740	3150	0			28
29				3072		4570	2700	3780	3130	0			29
30				3770		4450	2736	3750	3080	0			30
31				3510		4430		3730		0			31
MEAN				628	4915	5128	3476	3496	4590	712			MEAN
MAX				3770	5300	5540	4262	3780	5890	3044			MAX.
MIN				0	3780	4410	2700	3017	3080	0			MIN.
AC. FT.				38590	272940	315300	206820	214970	273110	43800			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1886	5560	10.42	3	11	2300	0		10	1	0000	1365530

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 59 38	120 30 02	N½12 11S 13E	8920a 8200	10.52b	6-24-41 6- 5-52	OCT 40-DATE		1940		116.5	USED

Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.
b Gage height at site and datum then in use.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	867920	BIG CREEK DIVERSION NEAR FISH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.6	3.0	5.3	36	5.7	42	7.0	4.6	45	45	8.3	5.2	1
2	2.8	3.0	5.0	35	6.8	43	6.8	4.6	45	45	8.3	5.0	2
3	2.8	3.0	6.3	35	4.6	43	6.6	4.6	45	44	7.6	5.0	3
4	2.8	2.9	6.1	26	4.6	42	6.3	4.6	45	43	7.6	5.0	4
5	2.9	2.8	6.8	7.6	8.8	43	6.1	4.6	45	42	7.2	5.0	5
6	2.8	4.5	7.0	8.1	23	39	6.1	4.6	45	40	7.0	4.8	6
7	2.8	4.8	5.9	8.6	25	26	6.1	34	45	39	7.0	5.9	7
8	2.9	4.6	7.2	8.6	27	24	5.9	44	44	38	6.8	5.2	8
9	2.8	4.8	5.0	8.1	19	23	5.7	44	45	36	6.6	5.0	9
10	2.8	4.6	6.6	8.6	5.7	23	5.7	45	43	35	6.6	5.0	10
11	2.8	4.6	8.3	8.1	5.7	15	5.7	45	47	33	6.6	5.0	11
12	3.0	7.6	9.8	8.1	5.7	13	5.5	46	48	32	6.1	5.0	12
13	3.4	6.1	14	24	6.6	12	5.5	46	49	33	6.1	4.8	13
14	3.0	5.5	15	29	5.9	8.3	5.5	47	49	32	5.9	4.8	14
15	3.0	6.3	27	27	7.0	4.3	5.3	47	51	28	5.5	4.8	15
16	3.0	6.3	11	23	8.1	4.5	5.2	44	52	25	5.5	4.8	16
17	3.0	6.1	11	16	7.0	5.0	5.2	45	52	24	6.1	4.6	17
18	3.0	7.2	11	24	6.6	5.7	5.0	47	51	22	5.9	4.6	18
19	3.0	7.0	20	23	6.6	5.9	5.0	35	50	20	5.5	4.6	19
20	3.0	6.6	17	9.3	6.6	7.0	4.8	7.4	50	18	5.5	4.8	20
21	3.0	6.1	26	8.8	7.4	18	4.6	31	50	15	5.9	5.0	21
22	3.0	5.9	35	7.0	6.6	6.6	4.6	45	49	14	5.9	5.0	22
23	3.0	5.7	35	6.8	6.8	6.6	4.6	45	49	13	5.7	4.6	23
24	3.0	5.9	37	6.6	21	6.6	4.6	45	49	12	5.5	4.8	24
25	3.0	5.5	36	8.1	23	6.6	4.6	45	48	11	5.5	4.6	25
26	3.0	5.5	40	7.6	27	6.6	4.6	45	47	11	5.5	4.5	26
27	3.0	5.2	36	6.3	35	6.6	4.6	45	47	11	5.5	4.3	27
28	3.0	5.0	39	17	41	6.8	4.6	45	46	11	5.5	4.1	28
29	3.0	5.0	39	27		6.8	4.6	45	46	10	5.3	4.1	29
30	3.0	5.0	38	21		7.0	4.6	45	46	9.3	5.2	4.1	30
31	3.0		37	16		7.0		45		8.8	5.0		31
MEAN	2.9	5.2	19.5	16.3	13.1	16.6	5.4	35.0	47.4	25.8	6.2	4.8	MEAN
MAX.	3.4	7.6	40	36	41	43	7.0	47	52	45	8.3	5.9	MAX.
MIN.	2.6	2.8	5.0	6.3	4.6	4.3	4.6	4.6	43	8.8	5.0	4.1	MIN.
AC. FT.	181	310	1197	1002	726	1019	319	2152	2822	1585	382	286	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
16.5		3.85	6	15	2100						11980

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 28 10	119 36 52	NE25 5S 21E		3.58	1-30-63	DEC 58-DATE		1958		0.00	LOCAL

Station located 195 feet upstream from road culvert, 1.4 miles southeast of Fish Camp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at time affected by ice and extreme high flows affected by 36-inch culvert pipe below station. Altitude of gage is approximately 5,400 feet (from topographic map). Records furnished by Madera Irrigation District.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	867325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.5	8.0	16	32	124	166	179	143	126	111	38	17	1
2	3.2	9.6	13	32	117	154	183	139	124	109	37	17	2
3	3.1*	35	14 *	31	114	162	196	135	123 *	107 *	35	17	3
4	3.3	12	13	34	110 *	146	165	132	121	105	33	16 *	4
5	3.7	8.0	13	35	144	139	303	130	120	103	29 *	16	5
6	4.5	7.3	13	36 *	154	139	274	133	118	102	29	16	6
7	4.8	10 *	13	36	104	127 *	207	153	117	100	28	19	7
8	4.9	10	13	34	116	120	187 *	174 *	119	97	27	17	8
9	4.8	9.7	12	32	111	117	191	176	167	95	26	16	9
10	4.5	9.5	15	28	107	127	188	175	144	91	27	16	10
11	4.5	9.2	48	27	107	118	188	172	134	89	29	16	11
12	6.1	21	21	28	147	114	191	170	135	85	28	16	12
13	13	17	20	150	124	110	188	163	131	86	25	15	13
14	13	13	30	176 *	116	105	180	160	127	84	26	15	14
15	6.1	24 *	92	97	196	107	166	155	129	78	27	15	15
16	5.3	19	73 *	72	160	112	161	150	135	73	27	15	16
17	5.1	16	33	56	137	122	167	148	131	70	29	15	17
18	4.8	17	25	145	151	132	169	146	126	66	28	15	18
19	5.0	18	25	998	146	132	164	129	125	63	26	15	19
20	5.0	15	17	353	133	129	171	71	120	60	26	15	20
21	5.0	14	24	904 *	126	161	177	80	121	57	24	16	21
22	4.8	13	28	285	119	136	174	136	121	54	23	15	22
23	4.9	13	25	154	126	139	192	136	119	53	23	13	23
24	4.9	14	62	178	347	144	172	144	117	50	22	13	24
25	5.1	15	99	947	254	146	155	142	116	49	22	13	25
26	5.4	13	58	740	192	152	151	141	114	47	22	12	26
27	5.7	14	39	314	145	159	148	139	113	47	21	12	27
28	6.0	13	46	218	167	167	148	137	114	48	20	12	28
29	6.6	12	39	171		176	150	134	114	43	19	13	29
30	13	13	34	150		185	148	130	112	41	19	13	30
31	8.8		32	129		191		127		39	18		31
MEAN	5.7	14.1	32.4	214	146	140	181	142	124	74.3	26.2	15.0	MEAN
MAX.	13	35	99	998	347	191	303	176	167	111	38	19	MAX.
MIN	2.5	7.3	12	27	104	105	148	71	112	39	18	12	MIN.
AC. FT.	352	838	1993	13140	8120	8596	10780	8727	7404	4566	1613	895	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
92.6	1670	4.66	1	19	0915	2.1	0.88	10	1	0000	67010

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961		0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,520 feet (from topographic map). Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion shown on preceding table.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1969	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5	1.2	2.1	5.9	39 E	31	55	48	19	12	6.1	3.7	1
2	0.6*	1.5	2.0	5.8	35 E	28	53	46	19	11	6.1	3.6	2
3	0.6	11	1.9*	5.9	32 E	27	56	44	18 *	11 *	5.8	3.5	3
4	0.6	4.1	1.8	6.3	28 #	26	49	42	17	11	5.6	4.3*	4
5	0.6	2.3	2.1	6.4	29	25	89	42	17	11	5.4*	3.5	5
6	0.6	1.8	2.1	6.4*	30	26	78	44	17	11	5.3	3.5	6
7	0.6	1.6*	2.1	6.3	27	24 *	59	45	17	11	5.2	3.5	7
8	0.7	1.5	2.1	5.9	26	23	53 *	45 *	17	10	5.1	3.5	8
9	0.7	1.5	1.8	5.4	25	23	54	46	26	10	5.0	3.3	9
10	0.6	1.5	2.4	4.9	24	23	56	45	27	9.7	5.1	3.4E	10
11	0.6	1.5	8.8	4.6	25	21	57	44	22	9.4	5.1	3.4E	11
12	0.8	3.6	4.5	4.5	40	21	58	47	20	9.1	4.9	3.4E	12
13	2.0	2.9	3.4	64	33	20	57	42	19	8.7	4.8	3.4E	13
14	3.2	2.3	6.0	59	29	21	53	39	18	8.9	4.6	3.4E	14
15	1.4	4.2*	28	21	49	22	48	37	17	8.6	4.5	3.3E	15
16	1.2	3.1	21 *	13	40	25	48	35	17	8.4	4.5	3.3E	16
17	1.1	2.7	8.1	10	33	30	51	34	17	8.2	4.6	3.3E	17
18	1.0	2.7	5.8	54	32	36	53	33	16	8.1	4.5	3.2E	18
19	1.0	2.8	5.1	363	30	36	52	32	16	8.1	4.4	3.1E	19
20	1.0	2.6	4.6	123	27	35	54	30	15	7.9	4.4	3.2	20
21	1.0	2.3	6.0	319 *	26	38	57	29	15	7.8	4.3	3.3	21
22	1.0	2.1	4.1	106	25	36	57	28	14	7.6	4.2	3.1	22
23	0.9	2.0	3.9	48	24	41	64	27	14	7.4	4.2	2.9	23
24	0.9	2.2	12	53	49	44	55	26	13	7.3	4.2	2.9	24
25	0.9	2.2	31	338	43	45	49	25	13	7.3	4.3	2.9	25
26	0.9	1.9	15	205	34	48	48	24	13	7.2	4.0	2.9	26
27	0.9	1.8	8.9	81	30	50	48	24	13	7.5	4.1	2.7	27
28	0.8	1.7	8.5	56 E	31	53	48	23	13	7.3	4.0	2.7	28
29	0.9	1.6	7.5	51 E		55	50	22	12	6.7	4.0	2.7	29
30	1.8	1.6	6.6	47 E		56	50	21	12	6.5	3.9	2.7	30
31	1.4		6.1	42 E		58		20		6.2	3.8		31
MEAN	1.0	2.5	7.3	68.4	32.0	33.8	55.3	35.1	16.8	8.8	4.7	3.3E	MEAN
MAX.	3.2	11	31	363	49	58	89	48	27	12	6.1	4.3	MAX.
MIN.	0.5	1.2	1.8	4.5	24	20	48	20	12	6.2	3.8	2.7	MIN.
AC. FT.	61	150	447	4208	1775	2077	3291	2160	998	539	290	194E	AC FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM				MINIMUM				TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
22.4	610	8.17	1	19	0830	0.5	2.46	10	1	0000	16190

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959		0.00	LOCAL

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	15	700	2500	385	60	143		0	0	1
2			0	5	695	1775	370	40	135		0	0	2
3			0	0	625	1675	625	25	148		0	0	3
4			0	0	580	1400	625	24	143		0	0	4
5			0	0	625	1198	485	15	133		0	0	5
6			0	0	1425	1055	2215	10	100		0	0	6
7			0	4	1500	981	1287	4	60		0	0	7
8			0	3.5	950	881	815	4	69		0	0	8
9			0	3	750	798	680	15	90		0	0	9
10			0	1	645	1198	625	20	185		0	0	10
11			0	0	575	1070	590	25	270		0	0	11
12	N	N	0	0	625	858	530	35	185	N	0	0	12
13	O	O	0	0	825	887	510	30	30	O	0	27	13
14			0	225	645	741	510	25	25		0	40	14
15			0	725	655	670	480	15	10		0	44	15
16	F	F	0	375	1475	625	390	0	8	F	0	44	16
17	L	L	0	250	900	575	315	0	0	L	0	40	17
18	O	O	0	200	875	590	330	0	0	O	0	40	18
19	W	W	0	1800	1450	590	297	0	0	W	0	10	19
20			0	2725	1425	585	295	0	0		0	0	20
21			0	4000	1450	890	290	200	0		0	0	21
22			0	3750	1455	860	270	255	0		0	0	22
23			0	1500	1900	635	250	277	0		0	0	23
24			0	675	4675	590	230	415	0		50	0	24
25			0	3900	8500	555	215	560	0		75	0	25
26			0	4400	5000	512	198	580	0		80	0	26
27			0	2425	2200	485	178	630	0		20	0	27
28			55	1625	1700	475	155	630	0		0	0	28
29			57	1400		460	120	480	0		0	0	29
30			40	1000		440	120	350	0		0	0	30
31			25	900		430		200			0		31
MEAN			5.7	1029	1600	870	480	159	57.8		7.3	8.2	MEAN
MAX.			57	4400	8500	2500	2215	630	270		80	44	MAX.
MIN			0	0	575	430	120	0	0		0	0	MIN.
AC. FT.			351	63290	88910	53520	28530	9767	3439		450	486	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
344	12100	13.10	2	25	0600	0		10	1	0000	248700

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 58 30	120 12 12	NE 15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936		0.00	LOCAL

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.6	7.3	86	350	65	39	9.1	3.3	0.3	0.0	1
2		0.0	0.8	6.4	78	239	70	38	9.1	2.9*	0.3	0.0	2
3		0.4	0.7	6.1*	71	241 *	102 *	37	9.1	2.7	0.3	0.0*	3
4		0.1	0.6*	5.3	64 *	182	70	37	8.8*	2.6	0.2*	0.0	4
5		0.0	0.5	4.8	168	163	253	35	8.3	2.3	0.2	0.0	5
6		0.0*	0.4	4.2	311	153	174	34	8.0	2.2	0.2	0.0	6
7		0.0	0.4	3.9	143	139	113	33 *	7.8	2.2	0.2	0.0	7
8		0.0	0.4	3.6	105	128	95	31	8.0	2.1	0.2	0.0	8
9	*	0.0	0.4	3.5	90	125	87	28	9.4	2.0	0.2	0.0	9
10		0.0	0.6	3.2	83	165	84	26	12	1.8	0.3	0.0	10
11		0.0	3.6	3.1	82	165	78	25	11	1.8	0.2	0.0	11
12	N	0.2	1.8	3.1	147	149	74	21	10	1.7	0.3	0.0	12
13	O	0.1	1.1	216	102	134	72	20 *	9.6	1.7	0.7	0.0	13
14		0.2	2.2	164 *	91	118	70	20	8.0	1.6	0.7	0.3	14
15		1.7*	52	37	257	112	66	20	7.5	1.3	0.6	0.3	15
16	F	0.5	57	21	153	107	63	19	7.3	1.3	0.6	0.3	16
17	L	0.3	7.0*	14	115	110	62	18	8.8	1.2	0.6	0.0	17
18	O	0.2	3.2	317	192	112	60	17	7.5	1.0	0.4	0.0	18
19	W	0.2	3.6	1480 *	208	109	57	16	7.0	1.0	0.1	0.0	19
20		0.2	2.7	363	143	113	55	16	6.4	0.8	0.1	0.0	20
21		0.2	1.8	1530	132	193	52 *	15	5.9	0.8	0.1	0.0	21
22		0.2	1.4	246	127	118	50	14	5.5	0.7	0.1	0.0	22
23		0.2	1.4	112	213	105	74	14	5.3	0.6	0.1	0.0	23
24		0.3	6.8	163	1330	100	68	13	5.1	0.6	0.1	0.0	24
25		0.4	126	1720 *	435	92	53	12	4.8	0.6	0.1	0.0	25
26		0.4	54 *	623	429	87	49	12	4.6	0.6	0.0	0.0	26
27		0.4	19	201	239	84	46	12	4.4	0.6	0.0	0.0	27
28		0.3	26	155	280	80	44	12	4.2	0.6	0.0	0.0	28
29		0.3	25	112		75	42	12	3.9	0.5	0.0	0.0	29
30		0.3	14	100		71	40	11	3.8	0.4	0.0	0.0	30
31			9.1	86		68		10		0.4	0.0		31
MEAN		0.2	13.7	249	210	135	76.3	21.5	7.3	1.4	0.2	0.0	MEAN
MAX.		1.7	126	1720	1332	350	253	39	12	3.3	0.7	0.3	MAX.
MIN.		0.0	0.4	3.1	64	68	40	10	3.8	0.4	0.0	0.0	MIN.
AC. FT.		14	841	15300	11650	8305	4538	1323	437	87	14	2	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
58.7	4350E	8.93	1	25	0750	0.0		10	1	0000	42510

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957		0.00	LOCAL

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map).

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15					INSUFFICIENT DATA TO PUBLISH DAILY FLOWS								15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
	1376C	586.44	2	24	1930	0.C		10	1	0[illegible]	

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R. M.D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FRDM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 15 36	119 56 42	SE 1 8S 18E	13760	586.44	2-24-69	NOV 59-DATE		1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Discharge measurements and partial flow records are available in DWR files. Drainage area is 201.[illegible] square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	*	*	0.0	14	10800	14300	11300	5160	10300	401[illegible] *	1. *		1
2			0.0	8.6	10900	14300	10400	7870	10300 *	358[illegible]	1.4	*	2
3			0.0	4.7	11200	13800	10100	9290	10300	308[illegible]	[illegible]		3
4			0.0	2.1	11400	14300	9830	9530	10600	253[illegible]	[illegible]		4
5			0.0	0.6	11300	13500 *	8850	9130 *	11300	2170	[illegible]		5
6			0.0	0.0	11700	12800	9620	8580	12300	175[illegible]	[illegible]		6
7			0.0	0.0*	13200	13100	11800 *	6860	13400	126[illegible]	[illegible]		7
8			0.0	0.0	12800	13400	11400	5940	142[illegible]	107[illegible]	[illegible]		8
9			0.0	0.0	11900	13600	11000	8370	143[illegible]	924	[illegible]		9
10			0.0	0.0	11600 *	13900	10900	9640	145[illegible]	731	[illegible]		10
11			0.0	0.0	11500	15100	11500	9940	14600	554	[illegible].0		11
12	N	N	0.0	0.0	11500	14400	10900	9880	14600 *	378	[illegible].0	N	12
13	O	O	0.0*	0.0	11700	14200	9660	9880	14100	253	[illegible]	O	13
14			0.0	3.9	11600	14100	8790	9790	13000	162	[illegible]		14
15			0.0	1250 *	11600	13700	8450	9840	12000	93 *	[illegible]		15
16	F	F	0.0	856 *	12200	13600	8530	9720	11700	66	[illegible]	F	16
17	L *	L	0.0	455	12900	13600	8760	9770	11600	61	[illegible]	L	17
18	O	O	0.0	306	12900	13600	8490	9830	11500	34	[illegible]	O	18
19	W	W	0.0	334	13800 *	13700	7930	9720	11500	56	[illegible]	W	19
20		*	8.3	3900 *	14200	13900	7480	9850 *	11300	129	[illegible] *		20
21			44	3390	13400	13900	7160	9960	10900	146	0.0		21
22			47	6390 *	13200	14700	7120	9980	998[illegible]	87	0.0	*	22
23			47	4630	12700	14200	6890	9960	873[illegible]	46	0.0		23
24			50	3900	14900	14000 *	6440	10000	775[illegible]	35	[illegible]		24
25			53	4930	20100 *	14000	6240	10100	6300	31	0.0		25
26			54	9240 *	18900 *	14100	6220	10300	5000	27	0.0		26
27			46	9260	16500	13400	6170	10400	4290	22	0.0		27
28			40	8960	14800	12900	5580	10500	4120	15	[illegible]		28
29			34	8670		11800	5320	10500	4070	9.6	0.0		29
30			26	9790		10600	4740	10500	403[illegible]	4.6	[illegible]		30
31			19	11100 *		10400		10400		1.5	[illegible]		31
MEAN			15.1	2819	13040	13580	8552	9377	10420	752	0.1		MEAN
MAX.			54	11100	20100	15100	11800	10500	14600	401	1.4		MAX.
MIN.			0.0	0.0	10800	10400	4740	5160	4030	1.5	0.0		MIN
AC.FT.			927	173300	724400	834800	508900	576600	620000	462[illegible]	5		AC.FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
4814	21700	17.58	2	25	1430	[illegible].0		10	1	0000	34[illegible]

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	T 4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	862400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	2.4	22	139	838	46	30 E	7.8	2.8			1
2		0.0	3.5	18	132	507	42	30 E	7.6	2.4*			2
3		0.0	2.8	16 *	111	408	80 *	30 E	7.8	2.0		*	3
4		0.0	2.0*	14	102 *	307	55	30 E	7.3*	1.8	*		4
5		0.0	2.4	12	332	246	492	30 E	6.8	1.8			5
6		0.0*	2.2	11	787	198	442	32 E	6.6	1.6			6
7		0.0	2.2	10	424	170	217	23 #	6.6	1.6			7
8	*	0.0	2.1	9.5	242	145	144	22 E	6.6	1.4			8
9		0.0	2.1	8.9	173	129	102	21 E	7.3	1.3			9
10		0.0	2.9	8.9	135	206	87	20 E	8.6	1.2			10
11		0.0	21	8.6	114	198	98	19 E	8.4	1.2			11
12	N	0.0	12	7.8	153	180 *	89	18 E	8.4	0.9	N	N	12
13	O	2.4	7.3	889	125	189	69	18 #	7.3	0.9	O	O	13
14		2.1	8.9	696 *	105	156	63	17 E	6.6	0.9			14
15		11 *	83	136	395	139	57	16 E	5.7	1.2			15
16	F	7.1	128	74	318	122	54	16 E	5.1	0.9	F	F	16
17	L	3.7	26 *	52	194	111	50	15	5.1	0.6	L	L	17
18	O	2.6	14	653	345	102	47	14	5.1	0.5	O *	O	18
19	W	2.0	13	2650 *	444	93	43	14	4.7	0.2	W	W	19
20		1.8	13	615	324	89	40	13	4.5	0.3			20
21		1.5	9.5	2980	254	283	39	13	4.0	0.2			21
22		1.4	8.1	521	225	158	37	12	4.0	0.2			22
23		1.4	7.1	216	628	117	42	11	3.8	0.2			23
24		1.5	9.5	187	3510	101	51	11	3.5	0.1			24
25		1.6	272	2140	1170	89	37	10	3.4	0.1			25
26		1.5	191 *	1030	1020	79	34	10	3.5	0.1			26
27		1.4	80	397	530	73	32	9.8	3.4	0.1			27
28		1.3	74	307	536	67	31	9.5	3.2	0.1			28
29		1.2	81	242		61	30	9.2	3.0	0.1			29
30		1.3	41	191		56	29 E	8.9	2.9	0.0			30
31			28	161		53		8.4		0.0			31
MEAN		1.6	37.2	461	463	183	89.3	17.4E	5.6	0.9			MEAN
MAX		11	272	2980	3510	838	492	30 E	8.6	2.8			MAX.
MIN.		0.0	2.0	7.8	102	53	29 E	8.4	2.9	0.0			MIN.
AC FT.		93	2285	28330	25720	11250	5314	1073E	334	53			AC FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
103	7460E	11.63	2	24	1320	0.0		10	1	0000	74450

LOCATION: LATITUDE	LOCATION: LONGITUDE	LOCATION: 1/4 SEC T & R M D B &M	MAXIMUM DISCHARGE OF RECORD: CFS	MAXIMUM DISCHARGE OF RECORD: GAGE HT	MAXIMUM DISCHARGE OF RECORD: DATE	PERIOD OF RECORD: DISCHARGE	PERIOD OF RECORD: GAGE HEIGHT ONLY	DATUM OF GAGE: PERIOD FROM	DATUM OF GAGE: PERIOD TO	DATUM OF GAGE: ZERO ON GAGE	DATUM OF GAGE: REF DATUM
37 23 55	120 00 10	NE 21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles (revised). Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	31	923	986	78	35	11	2.9			1
2			0	26	867	979	72	33	10	3.0			3
3			0	22	808	958	125	30	10	3.0			3
4			0	19	723	930	104	32	9.2	2.8			4
5			0	17	621	895	192	32	8.4	2.7			5
6			0	16	615	847	567	31	7.8	2.5			6
7			0	14	663	802	533	36	7.6	2.4			7
8			0	13	609	735	385	31	7.6	2.3			8
9			0	13	506	651	239	25	7.6	2.2			9
10			0	12	326	555	161	24	8.0	2.1			10
11			0	11	207	450	140	22	8.8	2.0			11
12	N	N	0	11	191	318	152	21	8.8	2.0	N	N	12
13	O	O	0	146	204	270	113	20	8.4	2.0	O	O	13
14			0	750	161	235	104	20	7.6	2.0			14
15			0	701	257	200	96	19	7.0	1.9			15
16	F	F	40	562	475	182	90	19	6.4	1.9	F	F	16
17	L	L	53	326	385	164	82	18	5.6	1.8	L	L	17
18	O	O	27	135	406	152	74	17	5.2	1.7	O	O	18
19	W	W	18	770	522	140	68	17	5.0	1.5	W	W	19
20			12	920	539	137	64	17	4.8	1.4			20
21			11	1110 *	485	290	60	16	4.4	1.2			21
22			10	1070	390	286	56	16	4.2	0.8			22
23			8.6	1020	455	197	52	15	3.9	0.2			23
24			8.6	970	791	161	72	15	3.7	0			24
25			13	1050	982	143	64	14	3.6	0			25
26			335	1100	1000	125	50	14	3.4	0			26
27			265	1070	1000	116	46	14	3.3	0			27
28			109	1060	995	106	43	14	3.2	0			28
29			122	1050		100	40	13	3.1	0			29
30			93	1020		92	36	13	3.0	0			30
31			47	986		86		12		0			31
MEAN			36.6	517	575	396	132	21.1	6.4	1.5			MEAN
MAX.			335	1110	1000	986	567	36	11	3.0			MAX.
MIN.			0.0	11	161	86	36	12	3.0	0.0			MIN
AC. FT.			2250	31780	31950	24370	7850	1300	378	92			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
138	1680		1	21		0.0		10	1	0000	99970

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	2	155	156	23	9	3	1	1	2	1
2			0.0	2	145	156	26	9	2	1	1	1	2
3			0.0	2	143	153	35	9	2	1	1	1	3
4			0.0	2	134	155	16	11	2	1	1	2	4
5			0.0	1	128	148	42	10	2	0.5	1	2	5
6			0.0	1	120	143	97	9	2	0.5	1	1	6
7			0.0	1	118	134	89	8	2	0.5	1	2	7
8			0.0	1	110	126	74	8	2	0.5	1	2	8
9			0.0	1	97	115	33	8	2	0.5	1	2	9
10			7.1	1	76	112	25	8	3	0.5	1	2	10
11			0.2	1	35	100	23	7	3	0.5	1	2	11
12	N	N	0.1	1	42	84	21	7	3	0.5	1	2	12
12	O	O	0.3	60	38	54	18	6	3	0.5	1	2	12
14			0.4	140	37	35	17	6	2	0.5	1	1	14
15			0.4	132	81	32	16	6	2	0.5	1	2	15
16	F	F	0.4	118	71	31	14	6	2	0.5	1	2	16
17	L	L	0.7	104	45	28	14	5	2	0.5	1	2	17
18	O	O	0.6	77	79	24	13	5	2	0.5	1	2	18
19	W	W	0.5	117	95	34	12	4	2	0.5	1	2	19
20			0.5	128	91	38	12	4	2	0.5	1	2	20
21			0.5	160	82	76	12	4	2	0.5	1	2	21
22			0.5	172	89	51	11	4	2	0.5	1	1	22
23			0.5	167	84	33	12	4	2	0.5	1	1	23
24			0.5	162	126	31	14	3	2	0.5	1	1	24
25			14	167	150	30	11	3	2	0.5	1	1	25
26			51	174	156	27	10	3	1	0.5	1	2	26
27			9.2	172	155	25	10	3	1	0.5	1	2	27
28			4.0	169	154	23	10	3	1	0.5	1	1	28
29			3.2	167		22	10	3	1	0.5	2	1	29
30			2.5	164		22	9	3	1	1	2	1	30
31			2.1	160		23		3		1	2		31
MEAN			3.0	87.9	99.8	108	24.3	5.8	2.0	0.6	1.1	1.6	MEAN
MAX.			51	174	156	156	97	11	3	1	2	2	MAX.
MIN.			0.0	1	35	22	9	3	1	0.5	1	1	MIN.
AC. FT.			183	5410	5550	6620	1410	359	119	36	67	97	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
27.5						[illegible]		10	1	[illegible]	19380

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	T 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCGS

Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B55400	BEAR CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.4	9.8	65	376	12	5.2	0.7	0.1			1
2		0.0	0.5	7.8	58	153	12	4.8	0.7	0.1*			2
3		0.0	0.7	6.5*	42	123 *	27 *	5.0	0.7	0.1		*	3
4		0.0	0.7*	5.5	33 *	75	17	7.2	0.7*	0.1	*		4
5		0.0	0.6	4.6	139	53	475	5.7	[illegible]	0.1			5
6		0.0	0.5	3.9	493	40	329	5.[illegible]	0.6	0.1			6
7		0.0*	0.4	3.4	196	33	125	4.6*	0.6	0.1			7
8	*	0.0	0.4	3.0	87	2[illegible]	137	4.2	0.6	0.1			8
9		0.0	0.4	2.7	55	37	42	3.6	0.6	0.1			9
10		0.0	0.6	2.4	40	135	32	3.2	0.6	0.1			10
11		0.0	7.1	2.3	32	98	26	2.8	0.6	0.1			11
12	N	0.0	7.8	2.2	46	70	21	2.6	0.6	0.1	N	N	12
13	O	0.0	4.3	518 *	37	65	18	2.3*	0.5	0.1	O	O	13
14		0.0	5.2	419 *	31	47	16	2.0	0.4	0.0			14
15		0.0*	93	111	198	38	14	2.0	0.4	0.0			15
16	F	0.0	97	47	185	32	13	1.8	0.4	0.0	F	F	16
17	L	0.0	14 *	28	81	29	12	1.8	0.4	0.0*	L	L	17
18	O	0.0	8.4	194	310	25 *	10	1.7	0.4	0.0	O *	O	18
19	W	0.0	7.1	1110 *	289	22	9.5	1.5	0.3	0.0	W	W	19
20		0.0	7.8	325	149 *	32	8.9	1.4	0.3	0.0			20
21		0.3	6.0	1790 *	97	293	8.3	1.3	0.3	0.0			21
22	*	0.4	4.8	264	73	80	7.7	1.2	0.3	0.0			22
23		0.4	3.7	87	354	50	9.5	1.1	0.3	0.0			23
24		0.4	6.6	79	1410	37	15	1.1	0.2	0.0			24
25		0.4	233	1250 *	389	29	9.2	1.0	0.2	0.0			25
26		0.4	202 *	529	320	24	8.0	1.0	0.2	0.0			26
27		0.4	87	170	249	22	7.4	1.0	0.2	0.0			27
28		0.3	89	145 *	141	18	6.6	0.9	0.2	0.0			28
29		0.3	60	118		16	6.1	0.9	0.2	0.0			29
30		0.3	23	93		14	5.4	0.8	0.2	0.0		*	30
31			14	71		13		0.8		0.0			31
MEAN		0.1	31.8	239	200	67.9	48.0	2.6	0.4	0.0			MEAN
MAX		0.4	233	1790	1410	376	475	7.2	0.7	0.1			MAX.
MIN		0.0	0.4	2.2	31	13	5.4	0.8	0.2	0.0			MIN
AC FT.		7	1960	14680	11110	4177	2855	158	26	3			AC FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
48.3	7720E	11.04	1	21	0800	0.0		10	1	0000	34970

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 28 38	120 06 43	SW21 5S 17E	7720E	11.04	1-21-69	DEC 57-SEP 69		1957	1969	0.00	LOCAL

Station located at county road bridge, 3.7 miles north of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 24.9 square miles. Altitude of gage is approximately 1,210 feet (from topographic map). Station discontinued 9-30-69.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	21	123	526	34	21	7.0	2.6	0.7		1
2			0	16	117	421	35	20	7.0	2.6	0.6		2
3			0	13	94	300	105	19	7.0	2.6	0.5		3
4			0	10	80	197	52	24	7.0	2.0	0.5		4
5			0	8.0	140	145	315	26	7.4	2.0	0.4		5
6			0	7.0	510	121	840	21	8.2	2.0	0.4		6
7			0	6.0	523	105	288	19	7.8	2.0	0.3		7
8			0	6.0	182	92	133	17	7.0	2.0	0.2		8
9			0	5.0	121	84	99	17	7.0	2.0	0.1		9
10			0	5.0	95	193	81	17	7.0	2.0	0		10
11			0	4.0	80	170	70	17	7.0	1.8	0		11
12	N	N	0	4.0	90	127	62	15	7.0	1.6	0	N	12
13	O	O	0	339	92	125	52	14	7.0	1.5	0	O	13
14			0	1330	94	102	48	14	6.6	1.4	0		14
15			0	664	187	87	43	13	6.2	1.1	0		15
16	F	F	120	93	344	78	39	13	5.8	1.1	0	F	16
17	L	L	43	58	155	71	38	12	5.0	1.0	0	L	17
18	O	O	20	54	461	65	34	11	4.7	0.9	0	O	18
19	W	W	12	1140	531	58	32	10	4.4	0.8	0	W	19
20			8.0	1120	308	58	31	10	4.1	0.8	0		20
21			7.5	1420	203	404	30	10	4.1	0.8	0		21
22			6.9	1570	166	158	28	9.0	4.1	0.8	0		22
23			5.5	1080	432	102	30	9.0	4.1	0.8	0		23
24			5.0	199	1080	85	48	9.0	3.8	0.8	0		24
25			78	1150	1500	72	35	9.0	3.5	0.8	0		25
26			318	1320	1230	63	28	9.0	3.2	0.8	0		26
27			134	780	567	55	26	9.0	2.9	0.8	0		27
28			68	280	288	49	24	9.0	2.9	0.8	0		28
29			89	264		45	22	9.0	2.9	0.7	0		29
30			48	176		41	21	8.6	2.6	0.7	0		30
31			31	145		39		7.8		0.7	0		31
MEAN			32.1	428	349	137	90.6	13.8	5.5	1.4	0.1		MEAN
MAX			316	1570	1500	526	840	26	8.2	2.6	0.7		MAX.
MIN			0.0	4.0	80	39	21	7.8	2.6	0.7	0.0		MIN.
AC FT			1980	26360	19380	8410	5400	850	330	84	7		AC FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
= — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
86.7	1700		1	21		0.0		10	01	0000	62780

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 21 20	120 14 15	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56	21	14	64	365	1840	75	186	94	126	142	222	1
2	67	20	10	52	308	1070	200	196	95	120	148	234	2
3	116	26	4.6	41	252	455	275	202	95	108	150	228	3
4	45	26	3.6	35	208	532	308	192	108	110	132	204	4
5	27	20	2.6	30	194	402	759	208	132	108	116	178	5
6	18	17	1.8	25	896	330	2200	200	108	101	130	174	6
7	19	31	1.4	22	1320	266	752	182	116	114	118	188	7
8	80	72	1.2	20	559	226	320	178	126	102	110	186	8
9	76	49	0.8	17	370	194	206	164	120	94	128	174	9
10	68	48	0.6	15	270	436	154	138	130	108	156	174	10
11	33	45	1.2	13	232	362	180	116	138	107	172	162	11
12	17	49	0.7	11	206	254	154	124	138	118	178	174	12
13	17	46	0.3	1140	270	240	210	114	142	102	166	192	13
14	18	46	1.2	4290	184	210	230	107	132	96	142	186	14
15	17	60	22	2190	333	188	210	96	176	101	128	190	15
16	15	71	27	549	885	138	156	101	172	96	130	192	16
17	14	68	82	338	445	122	150	112	160	104	150	196	17
18	13	62	38	349	1300	107	160	110	158	104	160	212	18
19	13	75	23	3090	1640	100	134	108	160	90	124	226	19
20	12	87	16	2660	1040	94	134	101	158	108	134	222	20
21	12	78	30	4320 *	589	477	158	108	152	100	152	218	21
22	12	68	18	3890	435	340	102	110	138	89	152	168	22
23	11	59	11	2150	1400	190	138	120	118	84	146	150	23
24	11	53	6.0	946	2930	136	292	102	106	79	168	148	24
25	11	52	78	3370	3580	110	266	116	101	82	180	160	25
26	10	44	1020	3860	2640	96	220	126	106	88	164	156	26
27	9.6	37	473	2180	1410	80	198	132	110	102	170	146	27
28	9.2	29	190	1060	757	75	176	126	100	120	178	152	28
29	12	22	173	911		70	160	112	112	107	180	146	29
30	18	18	126	573		65	196	92	122	122	180	134	30
31	21		87	450		60		101		128	200		31
MEAN	28.3	45.1	79.4	1247	894	299	296	134.8	127.4	103.8	151.1	183	MEAN
MAX.	116	87	1020	4320	3580	1840	2200	208	176	128	200	234	MAX.
MIN.	9.2	17	0.3	11	184	60	75	92	94	79	110	134	MIN.
AC. FT.	1740	2770	4890	76680	49620	18380	17600	8290	7580	6380	9290	10890	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
296	5120		1	21		0.3		12	13		214100

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 18 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56- DATE		1956		75.00	ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	805518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	81	21	33	103	439	a	38	225	192	224	198	219	1
2	95	25	32	76	381	a	69	200	198	215	219	224	2
2	169	44	25	53	345	a	275	206	180	195	209	250	2
4	107	98	22	44	306	a	306	236	198	173	187	219	4
5	56	73	20	39	283	412	394	216	223	198	143	183	5
6	38	28	17	35	a	339	a	135	246	190	190	201	6
7	31	22	17	32	a	296	a	134	225	199	186	304	7
8	30	55	16	30	a	257	416	172	246	136	205	377	8
9	62	62	15	28	a	229	319	175	239	151	176	316	9
10	76	61	14	26	439	334	255	150	290	132	179	283	10
11	54	58	19	26	376	410	153	127	330	164	198	270	11
12	40	70	21	25	347	304	108	126	296	202	225	261	12
13	31	65	17	134	402	269	259	142	311	209	253	291	13
14	32	58	44	a	346	259	249	128	279	204	209	360	14
15	29	93	61		319	309	207	120	304	173	233	347	15
16	22	126	58		463	182	160	115	322	170	218	329	16
17	19	102	89		a	163	161	118	296	131	249	338	17
18	17	87	74			149	193	132	244	137	259	335	18
19	17	83	44			137	135	175	170	151	192	305	19
20	16	101	35			128	134	151	154	186	156	278	20
21	15	95	40			275	266	168	182	196	180	249	21
22	15	89	39			415	144	159	197	198	191	236	22
23	18	82	28			239	124	161	193	184	157	208	23
24	16	73	25			180	287	169	174	134	213	182	24
25	16	70	56			141	319	173	174	123	291	225	25
26	16	65	538			121	314	207	184	115	274	189	26
27	15	55	838			104	291	215	188	168	259	180	27
28	15	49	300		a	97	234	212	219	201	269	203	28
29	15	41	242			91	188	159	271	152	257	211	29
30	17	36	194	a		84	207	187	274	177	249	195	30
31	23		122	533		61		163		195	202		31
MEAN	39	66	100					167	233	174	214	259	MEAN
MAX.	169	126	838					236	330	224	291	377	MAX.
MIN.	15	21	14					115	154	115	143	180	MIN.
AC. FT.	2386	3941	6139					10286	13883	10677	13141	15408	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a - SEE (a) BELOW

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 15 21	120 39 08	NE 9 8S 12E				1930-					

Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.

Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.

Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff record dating back to 1947 is located on the succeeding page.

a Daily mean discharge was not computed for periods of high stage as the levee on Bear Creek broke approximately one mile upstream from the recorder on January 14, 1969, affecting the gage heights at the recorder.

TABLE A-4 (Cont.)

DAILY MEAN [illegible]
(Runoff of Bear Creek at Merced Irrigation District [illegible] Boundary near Merced)
October 1, 1946 through September [illegible], 1969

WATER YEAR	MONTHLY RUNOFF IN ACRE-FEET												TOTAL
	OCT.	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	
1947	NR	NR	NR	NR	NR	NR	4401	[illegible]	4[illegible]45	42[illegible]	4[illegible]25	[illegible]	-
1948	NR	NR	NR	NR	NR	NR	NR	[illegible]	[illegible]351	4491	44[illegible]9	4354	-
1949	2337	974	538	567	2041	9795	4086	6421	4136	3618	426[illegible]	388[illegible]	428[illegible]
1950	885	415	730	5042	831[illegible]	3739	9912	565[illegible]	6425	5[illegible]42	4126	5219	[illegible]
1951	1091	NR	NR	11377	10808	4969	8727	5387	5355	49[illegible]1	62[illegible]4	6976	-
1952	2963	916	5681	31099	8398	18724	15081	742[illegible]	[illegible]145	6012	[illegible]5	9156	119664
1953	5[illegible]88	1279	4536	13601	1743	2838	5619	465[illegible]	4568	43[illegible]	3640	4516	56395
1954	3449	510	294	2265	4112	7139	8176	8922	5778	3118	3467	1400	486[illegible]
1955	807	567	202	9717	1214	1242	3019	2237	2684	2590	2932	1916	29127
1956	774	1392	NR	32137	7617	5586	14900	11437	7966	5913	515[illegible]	5935	-
1957	6192	1381	1486	785	1464	2938	10624	11889	6930	4655	4138	4253	56735
1958	3322	657	1444	11885	33952	68052	68748	8638	12147	9[illegible]11	57[illegible]3	7918	232177
1959	6181	1898	1490	1559	4921	2610	4124	3066	3023	2398	2386	680	34336
1960	292	75	341	538	5346	1109	2190	3884	2370	2198	1829	[illegible]	20172
1961	337	72	268	145	210	536	309	4187	211[illegible]	1202	538	1[illegible]5	[illegible]019
1962	0	67	224	323	81575	10144	4641	6704	4869	5496	4193	3521	121757
1963	2936	1384	1137	522	28318	7089	15164	5373	5292	4544	4298	3894	79951
1964	2331	571	262	1260	353	212	2868	3171	2810	2747	2095	36	18716
1965	450	1976	69315E	58021	2579	6050	27150	7863	10324	5941	5552	5722	200943
1966	1823	21206	18629	14087	4036	210	3324	3231	3279	2222	18	238E	72303
1967	307E	298E	8325E	14952	7884	11240	96364	8698	7434	6371	7946	8892	178711
1968	5597	4649	6073	1698	2567	4745	6262	6371	4709	6020	6468	6385	61544
1969	2386	3941	6139	NR	NR	NR	NR	10286	13883	10677	13141	15408	-

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	856400	BURNS CREEK AT HORNITOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.0	3.8	30	172	6.2	4.2	0.7	0.1			1
2		0.0	0.0	3.4	24	74	8.0	3.8	0.7	0.1*			2
3		0.1	0.0	2.8*	21	67 *	33 *	3.4	0.7	0.1		*	3
4		0.0	0.0*	2.5	18 *	44	9.3	7.3	0.7*	0.1	*		4
5		0.0	0.0	2.0	76	34	475	5.6	0.7	0.1			5
6		0.0	0.0	1.8	255	29	115	4.2	0.7	0.1			6
7		0.0 *	0.0	1.6	66	24	44	3.4*	0.7	0.1			7
8	*	0.0	0.0	1.4	37	21	29	3.1	0.7	0.1			8
9		0.0	0.0	1.0	27	47	22	2.8	0.7	0.1			9
10		0.0	0.1	1.0	21	53	18	2.2	0.6	0.1			10
11		0.0	1.0	0.8	18	23	16	2.0	0.6	0.1			11
12	N	0.0	0.6	0.8	47	22	14	1.6	0.6	0.1	N	N	12
13	O	0.0	0.3	613 *	20	23	12	1.4*	0.6	0.1	O	O	13
14		0.0	1.4	401	24	17	11	1.4	0.7	0.0			14
15		0.1	30	48	140	16	10	1.4	0.7	0.0			15
16	F	0.0	28	23	67	14	9.3	1.2	0.5	0.0	F	F	16
17	L	0.0	5.6*	16	34	13	8.4	1.2	0.5	0.0*	L	L	17
18	O	0.0	2.8	131	237	12	8.0	1.0	0.4	0.0	O *	O	18
19	W	0.0	2.0	747	150	11	7.3	1.0	0.4	0.0	W	W	19
20		0.0	1.6	296	60	27	6.7	1.0	0.4	0.0			20
21		0.0	1.0	1000 *	37	105	6.7	1.0	0.3	0.0			21
22		0.0	0.7	120	32	20	6.2	0.9	0.2	0.0			22
23		0.0	0.6	51	348	16	26	0.8	0.2	0.0			23
24		0.0	6.0	120	760 *	13	14	0.8	0.2	0.0			24
25		0.0	80	865 *	224	12	8.8	0.8	0.2	0.0			25
26		0.0	176 *	318	204	11	7.3	0.8	0.2	0.0			26
27		0.0	20	73	70	9.3	6.2	0.7	0.2	0.0			27
28		0.0	13	109	138	8.8	5.6	0.7	0.2	0.0			28
29		0.0	9.3	60		8.4	4.6	0.7	0.1	0.0			29
30		0.0	5.6	49		7.3	4.2	0.8	0.1	0.0			30
31			4.6	34		6.7		0.8		0.0			31
MEAN		0.0	12.6	164	114	31	32	2.0	0.5	0.0			MEAN
MAX.		0.1	176	1000	760	172	475	7.3	0.7	0.1			MAX.
MIN.		0.0	0.0	0.8	18	6.7	4.2	0.7	0.1	0.0			MIN.
AC. FT.		0	774	10110	6321	1905	1888	123	28	3			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
29.2	3040E	8.46	1	21	1030	0.0		10	1	0000	21150

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 29 42	120 14 17	SE17 5S 16E	9200E a	10.66	2-15-62	DEC 58-SEP 69		1958	1969	0.00	LOCAL

Station located 130 feet south of Stockton-Mariposa road, 0.2 mile southwest of Hornitos. Tributary to San Joaquin River via Bear Creek. Drainage area is 26.7 square miles. Altitude of gage is approximately 780 feet (from U. S. Geological Survey topographic map). Station discontinued 9-30-69.

a Maximum discharge of record was caused by a flood wave when a temporary debris dam which was lodged against a bridge approximately 1/4 mile upstream was removed thereby releasing impounded water.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	856100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	0	11	102	538	11	5.5					1
2		0	0	7.5	91	212	12	5.2					2
3		0	0	6.1	78	184	47	4.9					3
4		0	0	5.2	70	126	25	5.8					4
5		0	0	4.6	99	100	478	9.0					5
6		0	0	3.8	419	80	518	7.0					6
7		0	0	3.6	235	64	120	6.1					7
8		0	0	3.2	120	46	70	5.8					8
9		0	0	3.0	96	66	46	5.8					9
10		0	0	2.8	79	202	36	5.8					10
11		0	0.4	2.2	70	78	30	5.8					11
12	N	0	1.4	2.0	107	50	26	4.6	N	N	N	N	12
13	O	0	0.6	847	91	57	22	4.0	O	O	O	O	13
14		0	18	1640	69	43	19	3.8					14
15		11	7.2	509	224	36	16	3.4					15
16	F	0.3	17	114	231	31	15	3.0	F	F	F	F	16
17	L	0.1	2.6	72	112	29	14	2.6	L	L	L	L	17
18	O	0	1.0	217	566	26	12	1.9	O	O	O	O	18
19	W	0	1.0	1300	398	24	12	1.4	W	W	W	W	19
20		0	11	690	212	25	12	1.0					20
21		0	5.5	1650 *	136	178	11	0.8					21
22		0	1.7	1250	118	28	10	0.6					22
23		0	0.9	183	697	31	32	0.4					23
24		0	18	190	1160	26	43	0.3					24
25		0	58	1490	1170	23	18	0.2					25
26		0	321	1370	596	20	12	0					26
27		0	80	261	225	18	10	0					27
28		0	47	267	316	16	9.0	0					28
29		0	31	212		15	7.5	0					29
30		0	19	142		14	6.4	0					30
31			14	116		12		0					31
MEAN		0.4	21.2	406	282	77.4	56.7	3.1					MEAN
MAX.		11	321	1650	1170	538	518	9.0					MAX.
MIN.		0.0	0.0	2.0	69	12	6.4	0.0					MIN.
AC. FT.		23	1300	24940	15640	4760	3370	188					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
69.4	1830		1	21		0.0		10	01	0000	50230

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1-4 SEC. T. & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OF GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS

Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37	23	38	290	12300	19700	10800	4620	9850	4050	137	129	1
2	33 *	25	38	204	12100	19500	10700	5160	9710	3960	144	136	2
3	28	28	38	116	12100	18700	10600	7570	9710 *	3790	149	185 *	3
4	34	30	35 *	93	12400	18500	10400	8550	9580	3550	151	238	4
5	42	48	34	71	12800 *	18000 *	10100	8510	9800	3250	149 *	256	5
6	37	61 *	32	66 *	12800	16600	9890	8420	10800	3040	132	229	6
7	34	49	30	63	13800	16000	12900	7420	11900	2640 *	124	271	7
8	30	46	28	68	15300	16100	13200 *	5530 *	12900	1720	115	418	8
9	27	42	31	75	14100	16200	12500	5580	13400 *	1240	112	373	9
10	27	48	32	70	13200	16200	11800	7870	14000	958	90	268	10
11	26	45	32	62	12800	17200	11700	9180	14500	715	86	216	11
12	25	46	37	60	12600	17200	11500	9350	14700	518	92	273	12
13	25	53	41	83	12200	16200	10500	9350	14900	409	112	288	13
14	28	63	48	463	12500	16000	9580	9350	14400	350	121	309	14
15	24	66	57	2760	12200	15400	8710	9310	13300	306	116	350	15
16	22	88	70	4210 *	12600	15100	8420	9350	12500	317	118	373	16
17	21	96	72	2970 *	13800	14900	8550	9270	12400	281	118	376	17
18	20	86	74	1890	14200	14700	8630	9220	12300 *	201	129	370	18
19	25	79	62	1950	15200	14700	8140	9270	12000	187	139	347	19
20	27	77	55	3680 *	16900	14600	7420	9220 *	11800	175	153	333	20
21	29	77	56	7270	16400 *	14700	6860	9400	11200	268	153	328	21
22	27	74	53	8660 *	15700	15300	6360	9490	10700	311	151	311	22
23	21	70	53	12000 *	15000	15200	6160	9490	9270	229	118	288	23
24	26	61	63	10000	15900	14900	5940	9490	7680	179	109	229	24
25	28	61	71	8280	22900	14700	5700	9580	6290	147	116	218	25
26	27	63	86	10800 *	26400 *	14600	5680	9710	5260	132	132	231	26
27	22	49	379	14300 *	24800	14200	5780	9440	4580	127	142	209	27
28	25	44	804	13900	21700	13500 *	5580	10100	4270	129	146	191	28
29	28	42	665	12300		13000	5240	10200	4150	137 *	144	187	29
30	27	40	496	11600		11700	4990	10100	4100	132	142	142	30
31	24		386	12300		10900		10000		134	137		31
MEAN	27.6	56.0	129	4537	15170	15620	8811	8681	10398	1083	128	269	MEAN
MAX.	37	96	804	14300	26400	19700	13200	10200	14900	4050	153	418	MAX.
MIN.	20	23	28	60	12100	10900	4990	4620	4100	127	86	129	MIN.
AC. FT.	1698	3332	7926	279000	842400	960400	524300	533800	618700	66610	7888	16010	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5335	26740	76.23	2	26	1030	14	60.95	10	23	1700	3862000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OH GAGE	REF. DATUM
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	800975	PANOCHE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1							NR	71	83	7 *	75	46	1
2							NR	73	82 *	69	74	40	2
3							NR	73	82	66	65	40	3
4							NR	73	82	66	69	40	4
5							NR	73	82	70	68	40	5
6							NR	73	82	69	69	41	6
7							NR *	73	82	68	66	40	7
8							68	73	81	65	69 *	36	8
9							65	74	80	59	69	35	9
10							58	76	80	62	68	36	10
11							57	76	80	66	69	36	11
12							56	76	80 *	70	72	36	12
13							51	75	81	71	73	34	13
14							54	75	81	70	74	34	14
15			STATION INACTIVE				54	75	80	69	72	34	15
16							54	78	80	70	69	35	16
17							57	78	76	72	69	36	17
18							60 *	78	67	72	67	34	18
19							60	78	61	74	67	32	19
20							59	79 *	59	75	68	29	20
21							62	77	56	75	65	30	21
22							65	77	54	74	62	29	22
23							65	78	59	70 *	64	31	23
24							68	78	55	66	59	32	24
25							65	79	60	63	58	31	25
26							66	80	60	62	62	30	26
27							68	81	61	61	61	31	27
28							69	82	64	69	61	32	28
29							72	82	67	72	60	30	29
30							72	83	70	75	57	30	30
31								84		74	51		31
MEAN								76.8	72.2	68.8	66.2	34.7	MEAN
MAX.								84	83	75	75	46	MAX.
MIN.								71	54	59	51	29	MIN.
AC. FT.								4723	4298	4233	4070	2063	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 55 25	120 41 19	NW 5 12S 12E	69. 84.a	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71	65	59	111	315	369	240	234	378	257	153	196	1
2	80 *	78	59	106	303	360	245	238	378	274	154	198	2
3	55	88	86	101	293	356	250	287	382 *	273	152	190 *	3
4	45	108	92 *	86	286	358	252	324	376	280	153	169	4
5	30	131	86	76	277 *	346 *	256	333	372	289	158 *	146	5
6	30	132 *	82	64 *	279	336	259	340	381	308	152	143	6
7	24	125	84	58	283	325	289	331	395	315 *	149	203	7
8	20	130	88	56	295	319	309 *	300 *	408	298	135	258	8
9	25	128	73	58	287	317	297	278	415	256	130	253	9
10	12	125	88	63	277	314	290	320	418	229	130	235	10
11	12	133	96	66	271	315	290	354	414	233	139	200	11
12	15	140	97	70	272	318	296	361	409	206	147	176	12
13	19	134	102	79	268	310	289	365	405	206	124	162	13
14	31	128	107	110	263	304	275	371	390	215	119	158	14
15	21	128	130	135	258	297	268	373	364	222	136	160	15
16	27	133	131	181	259	290	265	380	341	228	145	155	16
17	29	132	128	157 *	267	286	269	382	327	229	142	147	17
18	13	130	123	110	277	285	273	374	314 *	218	152	142	18
19	14	122	116	115	282	280	271	374	326	209	160	145	19
20	14	103	108	156	296 *	273	265	377	334	218	172	150	20
21	22 *	94	107	259	302	272	258	378	339	225	174	158	21
22	21	96	106	345 *	302	273	252	375 *	346	238	180	172	22
23	16	81	98	381	306	279	253	368	339	211	179	176	23
24	22	81	93	365	320	270	256	365	329	191	185	168	24
25	29	67	98	336	364	265	262	368	306	197	186	157	25
26	27	62	108	347	404 *	263	263	375	270	198	195	169	26
27	25	53	116	384 *	401	261	263	380	239	192	183	181	27
28	31	54	117	375	382	250 *	266	383	232	196	181	175	28
29	46	55	124	348		250	257	383	236	196	179	174	29
30	55	55	121	328		244	245	381	242	184	187	165	30
31	58		113	323		238		381		168	189		31
MEAN	30.3	103	101	185	300	298	267	349	347	231	159	176	MEAN
MAX.	80	140	131	384	404	369	309	383	418	315	195	258	MAX.
MIN.	12	53	57	56	258	238	240	234	232	168	119	142	MIN.
AC. FT.	1862	6131	6216	11400	16640	18290	15910	21490	20640	14200	9759	10470	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
211	419	70.35	6	10	2400	12	63.13	10	11		153000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 14 52	120 51 04	SE10 8S 10E	419	70.35	6-10-69	MAR 68-DATE		1968		0.00	USCGS

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Station installed on February 28, 1968.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B52600	NORTH FORK MERCED RIVER NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	2.0	2.7	14	59	170	47	26	10	5.6	1.8	1.1	1
2	0.4	3.0	2.0	14	54	160	47	26	10	5.1	1.5	1.5	2
3	0.4	9.1	1.8	12	54	154	54 *	26	10 *	5.1	1.5	1.5*	3
4	0.6	2.3*	1.5	11	54	132	42	26	9.8	4.6	1.5	1.5	4
5	0.6	1.8	1.5	10	80	120	159	24	9.8	4.6	1.8*	1.1	5
6	0.3	2.0	1.5*	8.5	209 *	112	174	23	9.1	4.6	1.5	0.9	6
7	0.3	1.8	1.3	7.8	150	102 *	144	23 *	9.8	4.6	1.5	1.5	7
8	0.4*	1.8	1.3	7.8	102	87	107	21	9.8	5.1*	1.5	2.0	8
9	0.3	1.8	1.3	6.7	82	82	87	21	11	4.6	1.5	1.8	9
10	0.3	1.8	2.3	6.7	74	80	76	21	11	4.2	1.3	1.3	10
11	0.2	1.8	5.1	6.1	74	76	67	20	11	4.2	1.5	1.1	11
12	0.3	3.8	3.0	6.1	109	76	58	20	10	3.8	1.1	1.3	12
13	1.3	2.3	2.3	250 *	99	74	54	19	9.8	4.2	1.1	1.3	13
14	0.9	2.3	3.4	259	82	74	49	18	9.1	3.8	1.1	1.1	14
15	0.9	6.7	13	65	191	74	45	17	9.1	3.8	0.9	1.3	15
16	0.9	3.0	23	39	218	76	42	17	8.5	3.8	0.9	0.9	16
17	0.9	2.3	9.1	28	129	82	39	16	9.1	3.8	0.9	0.9	17
18	0.9	2.0	6.7	247	123	89	39	16	9.1	3.8	1.1	1.1	18
19	0.9	2.0	6.1	1810 *	123	87	38	15	7.8	3.8	1.1	1.1	19
20	0.9	1.8	5.1	448	115	87	36	14	7.8	3.4	1.1	1.1	20
21	0.9	1.8	4.2	2100	99	115	35	14	7.2	3.0	1.1	0.6	21
22	1.1	1.8	3.8	499	85	99	33	14	7.2	3.0	1.1	0.6	22
23	1.1	1.8	4.2	167	85	87	45	13	7.8	2.3	0.9	0.6	23
24	1.1	2.0	22	105 *	449	82	42	12	7.2	2.3	0.9	0.7	24
25	1.3	2.0	73	1050 *	311	76	35	12	7.2	2.3	0.9	0.7	25
26	1.3	1.8	50 *	846	191	69	33	12	7.2	2.3	0.9	0.7	26
27	1.5	1.8	26	258	147	65	32	12	7.2	2.0	1.1	0.7	27
28	1.3	1.8	23	144	150	65	29	12	6.7	2.0	0.9	0.9	28
29	1.5	1.8	24	97		58	28	11	6.7	2.0	1.1	0.7	29
30	3.0	1.5	21	80		54	27	11	6.1	1.5	1.1	0.6	30
31	1.8		19	63		50		10		1.5	0.9		31
MEAN	0.9	2.4	11.8	280	132	90.8	58.1	17.5	8.7	3.6	1.2	1.1	MEAN
MAX.	3.0	9.1	73	2100	449	170	174	26	11	5.6	1.8	2.0	MAX.
MIN.	0.2	1.5	1.3	6.1	54	50	27	10	6.1	1.5	0.9	0.6	MIN.
AC. FT.	56	146	724	17190	7335	5581	3457	1075	520	220	74	64	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
50.3	3780E	7.50	1	21	1120	0.2	3.18	10	11	1200	36400

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 44 51	120 02 12	NW 19 2S 18E	3780E	7.50	1-21-69	DEC 58-SEP 69		1958	1969	0.00	LOCAL

Station located 40 feet upstream from Greeley Hill Road Bridge, 9 miles northeast of Coulterville. Drainage area is 30.3 square miles. Maximum discharge of record from rating curve extended above 2,145 cfs. Altitude of gage is 2,360 feet (from U. S. Geological Survey topographic map). Station discontinued 9-30-69.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.6	1.4	3.3	18	38	6.0	5.0	2.0	0.7	0.5	0.2	1
2	0.1	0.9	1.4	3.1	17	39	7.0	4.8	2.0	0.7	0.5	0.2	2
3	0.1	1.1	0.3	3.0	15	43	16 *	5.2	1.8*	0.7	0.5	0.1*	3
4	0.1	0.3*	0.3	3.1	15	33	10	5.4	1.6	0.7	0.5	0.1	4
5	0.1	0.2	0.3	3.1	30	28	51	5.0	1.5	0.6	0.4*	0.1	5
6	0.1	0.2	0.3*	3.0	77 *	25	48	4.8	1.5	0.6	0.4	0.1	6
7	0.1	0.2	0.3	2.6	35	23 *	32	4.5*	1.5	0.6	0.4	0.2	7
8	0.1*	0.2	0.3	2.5	24	17	22	4.5	1.5	0.6*	0.4	0.2	8
9	0.1	0.2	0.3	2.4	18	17	20	4.1	1.8	0.6	0.4	0.2	9
10	0.1	0.2	0.5	2.2	16	20	12	4.1	2.0	0.6	0.4	0.2	10
11	0.1	0.2	0.7	2.2	15 E	20	4.1	4.0	2.0	0.5	0.4	0.2	11
12	0.2	0.4	0.4	2.2	22 E	19	10	4.0	1.8	0.5	0.4	0.2	12
13	0.4	0.2	0.4	127 *	17 E	18	9.6	3.7	1.6	0.6	0.3	0.2	13
14	0.2	0.3	0.7	88	16 E	16	8.9	3.5	1.4	0.5	0.4	0.2	14
15	0.2	0.9	3.6	20	47 E	15	8.4	3.7	1.3	0.5	0.3	0.2	15
16	0.2	0.3	2.1	12	47 E	14	7.7	2.9	1.3	0.5	0.3	0.2	16
17	0.2	0.3	0.9	8.4	40 E	14	7.2	2.9	1.3	0.5	0.3	0.2	17
18	0.2	0.3	0.7	32	40 E	13	7.2	2.9	1.3	0.5	0.3	0.1	18
19	0.2	0.3	0.7	393	39 E	12	6.8	2.8	1.1	0.5	0.2	0.1	19
20	0.2	0.3	0.6	79	34	14	6.4	2.5	1.0	0.5	0.3	0.1	20
21	0.2	0.2	0.6	455	30	33	6.4	2.5	1.0	0.4	0.2	0.2	21
22	0.2	0.2	0.5	105	24	23	5.8	2.7	1.0	0.4	0.2	0.1	22
23	0.2	0.2	0.6	35	23	17	9.9	2.5	1.0	0.4	0.2	0.1	23
24	0.3	0.3	4.6	30 *	112	14	9.6	2.5	0.9	0.4	0.2	0.1	24
25	0.3	0.3	20	273	72	12	7.0	2.5	0.8	0.4	0.2	0.1	25
26	0.3	0.3	16	173	40	10	6.4	2.4	0.8	0.4	0.2	0.1	26
27	0.3	0.3	6.1	49	30	9.1	6.0	2.4	0.8	0.4	0.2	0.2	27
28	0.4	0.3	7.2	33	37	8.4	5.6	2.4	0.8	0.4	0.2	0.2	28
29	0.5	0.3	5.7	24		7.2	5.4	2.3	0.8	0.4	0.2	0.2	29
30	0.9	0.3	3.7	20		6.6	5.4	2.2	0.8	0.4	0.2	0.2	30
31	0.6		3.5	18		5.6		2.1		0.4	0.2		31
MEAN	0.2	0.3	2.7	64.7	33.9	17.4	12.3	3.4	1.3	0.5	0.3	0.2	MEAN
MAX.	0.9	1.1	20	455	112	43	51	5.4	2.0	0.7	0.5	0.2	MAX.
MIN.	0.1	0.2	0.3	2.2	15 E	5.6	4.1	2.1	0.8	0.4	0.2	0.1	MIN.
AC. FT.	14	20	164	3981	1884	1158	730	212	79	32	19	10	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
11.5	1090	8.13	1	21	1100	0.1	1.32	10	1	0000	8306

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF DATUM
37 44 29	120 37 40	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		0.00	LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville.
Maximum discharge of record from rating curve extended above 758 cfs.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B512[illegible]	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	2.2	[illegible]	34	119	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
2	0.0	0.3	2.2	4.4	34	112	16	7.4	1.9	1.1	[illegible]	[illegible]	2
3	0.0	4.6	2.1	3.4	32	105	22 *	7.4	[illegible]*	[illegible]	0.3	[illegible]*	3
4	[illegible]	1.5*	1.9	2.6	29	83	15	7.6	[illegible]	[illegible]	0.3	[illegible]	4
5	0.0	1.0	1.9	2.1	63	67	185	7.1	[illegible]	0.8	0.4*	[illegible]	5
6	0.0	0.8	1.8*	1.8	135 *	56	138	6.8	1.6	[illegible]	0.4	[illegible]	6
7	0.0	0.8	1.6	1.4	80	48 *	89	6.3*	1.6	0.9	0.4	[illegible]	7
8	0.0*	0.7	1.6	1.3	54	40	58	5.6	1.6	[illegible]*	0.3	[illegible]	8
9	0.0	0.8	1.5	1.0	40	38	44	5.6	1.9	[illegible]	0.3	[illegible]	9
10	0.0	0.8	1.8	0.8	31	46	35	5.3	2.1	0.7	[illegible]	[illegible]	10
11	0.0	0.7	6.1	0.8	28	45	30	5.1	2.2	0.8	0.3	[illegible]	11
13	0.0	1.6	3.4	0.8	39	44	27	4.7	2.1	0.7	0.2	0.0	12
13	0.4	1.3	2.6	296 *	30	43	24	4.7	1.9	[illegible]	0.2	[illegible]	13
14	0.2	1.4	3.6	149	31	39	22	4.2	1.6	[illegible]	[illegible]	[illegible]	14
15	0.1	5.8	29	20	142	36	20	4.2	1.6	0.7	0.1	[illegible]	15
16	0.1	2.4	20	8.2	118	31	18	4.0	1.6	0.6	[illegible] *	[illegible]	16
17	0.1	1.8	4.6	5.2	77	29	16	3.5	1.6	0.6	0.1	[illegible]	17
18	0.1	1.5	3.2	113	123	26	16	3.5	1.6	0.5	0.2	[illegible]	18
19	0.0	1.5	3.0	597 *	131	23 *	14	3.5	1.5	0.5	0.2	[illegible]	19
20	0.0	1.4	2.6	168	97	37	13	3.3	1.5	[illegible]	0.1	0.1	20
21	0.0	1.4	2.2	635	73	86	12	3.2*	1.5	0.4	[illegible]	[illegible]	21
23	0.0 *	1.3	2.2	164	58	57	11	3.2	1.5	0.4	0.1	[illegible]	22
23	0.0	1.3	2.1	63	81	44	16	3.0	1.5	0.4	[illegible]	[illegible]	23
24	0.0	1.5	21	46 *	498	36	13	2.8	1.4	0.4	[illegible]	[illegible]	24
25	0.0	1.5	86	467	183	30	11	2.6	1.3	0.4	[illegible]	[illegible]	25
26	0.0	1.4	54 *	322	127	26	10	2.6	1.3	0.4	0.1	[illegible]	26
27	0.0	1.4	15	95	101	23	9.4	2.6	1.4	0.4	0.1	[illegible]	27
28	0.0	1.5	42	67	98	20	8.8	2.6	1.3	0.5	0.1	[illegible]	28
29	0.1	1.5	21	49		18	8.2	2.4	1.3	0.5	0.1	[illegible]	29
30	0.2	1.5	11	40		16	8.2	2.2	1.1	0.4	0.1	[illegible]	30
31	0.1		7.4	33		14		2.1		0.4	0.1		31
MEAN	0.0	1.5	11.6	109	91.7	46.4	30.8	4.4	1.6	0.6	0.2	0.0	MEAN
MAX.	0.4	5.8	86	635	498	119	185	7.9	2.2	1.1	0.4	0.2	MAX.
MIN.	0.0	0.1	1.5	0.8	28	14	8.2	2.1	1.1	0.4	0.1	0.0	MIN.
AC FT.	3	90	716	6672	5092	2850	1830	272	96	39	12	2	AC FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
24.4	125[illegible]	5.63	1	19	0400	0.0		1[illegible]	1	0000	17[illegible]

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39	404	90	103	101	4850	2860	2320	5540	990	580	744	1
2	9.2	130	90	97	97	4890	2850 *	2320	5750 *	983	580	734	2
3	0.3	138	90 *	97	97	4910	2850	2330	5750	990 *	562	771 *	3
4	0.8*	115	90	95	99 *	4900	2820	2330	5760	1010	566 *	793	4
5	7.1	90	90	93	440	4860 *	3330	2300	5990	1170	580	793	5
6	9.8	83 *	90	92 *	2840	4870	3360	2190	5990	1230	553	793	6
7	10.4	84	88	90	4020	4900	3260	2160	5960	1370	576	568	7
8	27	88	88	88	4740	4910	3220	2200	5730	1100	599	848	8
9	132	86	88	115	4970	4910	3120	2490	5760 *	996	594	848	9
10	132	86	90	69	4970	4280	3080	2540	5280	1000	599	990	10
11	136	90	90	73	4930	3370	2950	2670	4300	820	419	880	11
12	145	99	90	86	4960	3360	2880	2590	3080	566	185	906	12
13	174	92	88	257	4940 *	3320	2880	2940	2480	562	190	641	13
14	304	92	103	384	4890	3320	2990	3300	2400	571	187	304	14
15	441	103	95	111	5010	3320	3290	3570	2380	580	618	801	15
16	445	97	99	90	4830	3320	3190	3700 *	2370	557	642	338	16
17	441	93	95	86	4890	3310	3130	3740	2380	544	657	390	17
18	417	92	93	90	4800	3310	3120	3780	2370	557	662	478	18
19	461	90	93	496 *	4930	3310	2960	3970	1900	530	657	526	19
20	457	90	92	159	4830	3310	2760	4260 *	1160	495	647	566	20
21	474	90	92	946	4850	3340	2710	4400	1120	526	633	609	21
22	491	90	99	271	4850	3300	2560	4470	1080	521	662	652	22
23	499	92	134	121	4850	3290	2600	4470	1350 *	530	672	421	23
24	487	92	103	103	4670	3290	2690	4510	2500	548	662	172	24
25	487	95	125	596	4290	3280	2590	4500	3000	557	613	174	25
26	474	93	221	389	3590	3260	2510	4560	2620	557	672	172	26
27	466	93	117	162	3440	3110	2580	4780	1870	491	723	182	27
28	466	92	109	145	3820	2960	2480	4800	1210	474	703	206	28
29	482	90	107	138		2820	2420	4910	1060	499	698	214	29
30	495	88	101	109		2960	2360	5140	1020	530	734	237	30
31	499		129	105		2940		5280		544	750		31
MEAN	322	105	102	189	3777	3745	2880	3533	3305	723	586	558	MEAN
MAX.	499	404	221	946	5010	4910	3360	5280	5990	1370	750	990	MAX.
MIN.	0.3	83	88	69	97	2820	2360	2160	1020	474	185	172	MIN.
AC. FT.	19820	6262	6286	11620	209700	230200	171400	217200	196700	44430	36050	33230	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1634	6020	13.12	6	6	0400	0.2	5.05	10	3	1800	1183000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	79	612	125	150	283	4710 E	2850	2230	5060	966	474	804	1
2	85	480	124	146	247	4700 E	2840 *	2220	5340 *	908	473	809	2
3	92	291	122 *	128	227	4690 E	2860	2220	5440	910	486	798 *	3
4	85 *	269	129	123	204	4680 E	2840	2210	5460	918	474 *	852	4
5	75	225	122	117	200 *	4670 #	3020	2200	5690	996	485	872	5
6	69	195 *	122	114 *	2220	4660	4320	2170	5840	1050	481	867	6
7	66	173	113	110	3740	4690	3390	2040	5810	1190 *	463	705	7
8	59	171	110	109	4430	4700	3230	2050	5770	1140	484	836	8
9	59	168	112	105	4760	4700	3120	2270	5760 *	918	523	897	9
10	71	164	110	124	4810	4700	3030	2440	5380	897	507	919	10
11	96	159	116	178	4750	3510	2990	2420	4650	827	523	933	11
12	113	172	116	187	4790	3340	2850	2430 *	3490	664	299	949	12
13	149	177	110	134	4800 *	3320	2840	2570	2590	530	209	974	13
14	188	165	128	1670	4720	3310	2830	2910	2430	501	192	475	14
15	304	183	137	772	4810	3290	3110	3250	2390	512	274	638	15
16	466	192	130	280	5450	3270	3140	3370	2370	524	527	660	16
17	583	173	127	192	4810	3270	3020	3500	2370	507	571	443	17
18	522	166	119	163	5460	3260	3010	3510	2340	478	590	507	18
19	513	158	116	1280	5380	3250	2950	3620	2270	460	596	541	19
20	540	153	119	1140 *	5050	3260	2740	3950 *	1370	427	602	594	20
21	543	148	115	3660	4760	3360	2650	4150	1140	435	587	641	21
22	558	147	111	2430	4750	3320	2590	4230	1110	432	602	708	22
23	573	144	111	684	4740	3270	2460	4270	1110 *	431	660	704	23
24	581	139	147	446	4740	3250	2600	4280	1850	436	669	390	24
25	575	131	133	1630	4730	3240	2570	4330	2830	463	664	275	25
26	568	133	472	3090	4720	3230	2450	4240	2770	464	632	254	26
27	563	132	512	1060	4720	3180	2450	4460	2150	482	718	240	27
28	556	128	235	617	4720	2960	2480	4500	1410	434	734	254	28
29	558	125	182	668		2890	2340	4520	1090	416	735	285	29
30	594	125	174	416		2880	2280	4760	1030	402	764	285	30
31	599		149	334		2930		4850		443	777		31
MEAN	338	193	153	718	3894	3693	2862	3296	3277	650	541	637	MEAN
MAX.	599	612	512	3660	5460	4710 E	4320	4850	5840	1190	777	974	MAX.
MIN.	59	125	110	105	200	2880	2280	2040	1030	402	192	240	MIN.
AC. FT.	20790	11500	9418	44150	216200	227100	170300	202700	195000	39990	33270	37900	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1669	8230	23.18	1	21	1930	57	9.81	10	8	1430	1208000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
				32.67a	12-4-50			1962		86.24	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions.

a Reflects present datum.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B00525	MUSTANG CREEK NEAR BALLICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	0	0	0.1	0.4	24	0	0.4	0			0	1
2	0.1	0	0	0.1	0.2	6.5	0	0.2	0 *			0	2
3	0.1	2.6	0	0	0.1	2.3	0.1	0.1	0	*		0 *	3
4	0	4.3	0	0	0.1*	1.2	0	0	0.1		*	0	4
5	0	1.0	0	0	0.1	0.7	7.0	0	0.1			0	5
6	0	0.1	0.1	0	26	0.3*	18	0 *	0			0	6
7	0	0.1	0.	0	20	0.2	3.6	0.2	0			0.1	7
8	0	0	0 E	0	3.4	0.1	0.8	0.1	0.2			0.4	8
9	0	0	0 E	0	0.8	0.2	0.3	0	0.4			0.1	9
10	0	0	0 E	0	0.3	0.2	0.1	0	0			0	10
11	0	0	0 E	0	0.2	0.1	0	0	0.2			0	11
12	0	0	0 E	0	13	0.4	0	0.1	0.1	N	N	0.1	12
13	0.5	0.2	0	2.9	2.9*	0.6	0	0.1	0	O	O	0.1	13
14	0.2	0.1	15	24	1.2	0.2	0	0	0			0.1	14
15	0.1	16	2.9	7.5	17	0.2	0	0	0			0.1	15
16	0	3.0	2.8	1.1#	61	0.1	1.3	0 *	0	F	F	0	16
17	0	0.4	0.8	0 E	8.8	0	1.3	0.1	0	L	L	0 *	17
18	0	0.2	0.3	1.2E	85	0.1	0.8 *	0.2	0	O	O	0.1	18
19	0	0.1*	0.1	48	51 *	0	0.2	0.2	0	W	W	0.2	19
20	0	0.1	0.4*	27	20	0	0.1	0.1	0			0.2	20
21	0	0.7	0.3	185 *	6.1	0.7	0.1	0.2	0			0.2	21
22	0	0.1	0.2	42	4.9	0.5	0.8	0.3	0			0.2	22
23	0	0	0.1	10	49	0.2	2.2	0.1	0 *			0.1	23
24	0	0	0.4	4.6	124	0.2	0.6	0	0			0	24
25	0	0	4.9	88	43	0.1	0.4	0	0.1	*		0.1	25
26	0	0	26	84	40	0	0.2	0	0.1			0.2	26
27	0	0	8.2	24	12	0	0.1	0.1	0			0.2	27
28	0.1	0	4.4	12	11	0	0	0	0			0.2	28
29	0	0	2.0	9.5		0	0	0	0			0.1	29
30	0.1	0	0.7	2.7		0	0.6	0	0.1			0.1	30
31	0.1		0.2	0.8		0		0					31
MEAN	0	1.0	2.3	18.5	21.5	1.3	1.3	0.1	0			0.1	MEAN
MAX.	0.5	16	26	185	124	24	18	0.4	0.4			0.4	MAX.
MIN.	0	0	0	0	0.1	0	0	0	0			0	MIN
AC. FT.	3	58	138	1140	1193	78	77	5	3			6	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
3.7	281	5.63	1	21	1200	0.0		10	1	0800	2700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65[a]-DATE		1965		0.00	LOCAL

Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map).

a Station installed in November 1965, but data were insufficient to publish prior to this year. Discharge measurements and partial gage height records are available in DWR files.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	808720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.1	3.2		0.0	61	829	46	84	95	69	38	79	1
2	10	3.6		0.0	48	577	96	62	104	19	41	45	2
3	22 *	7.6		0.0	39 *	373	126	20	71 *	10	19	12	3
4	15	4.5	*	0.0	32	251	163	3.9	34	19	67	7.3*	4
5	52	4.9		0.0	26	191 *	161	83	14	22	23 *	7.9	5
6	40	7.3*		0.0*	436	138	191	37	73	16	10	4.7	6
7	24	6.8		0.0	367	116	122	14	65	26	7.9	20	7
8	12	9.3		0.0	163	101	119	20	81	25 *	8.4	93	8
9	12	6.6		0.0	104	89	85	39 *	85	45	12	70	9
10	6.3	3.8		0.0	77 *	80	85	75	100	34	16	68	10
11	5.6	2.6		0.0	63	72	92	86	126	12	22	89	11
12	7.3	11	N	0.0	374	65	98	130	45	30	13	58	12
13	7.3	5.4	O	0.0	199	68	46	119	65	23	16	52	13
14	6.6	7.9		0.0	121	57	10 *	91	82	19	33	72	14
15	2.9	6.8		0.0	426	45	61	47	87	11 *	8.7	75	15
16	5.6	1.9	F	0.0	607	39	126	45	107	17	24	33	16
17	2.3	0.9	L *	0.0	282	34 *	91	50	65	23	33	29	17
18	1.7	0.5	O	0.0	205 *	31	25	48	70	24	46	31	18
19	1.2	0.3	W	596	167	19	11	64	74	16	40	22	19
20	0.9	0.2		774 *	137	1.4	82	84	57	28	52	1.9	20
21	0.5	0.1		620	95	1.8	120	91	42	35	7.9	19	21
22	47	0.0		549 *	130	33	73	102	104	16	5.6	19	22
23	54	0.0		172	317	55	66	81	90	22	7.6	2.8	23
24	39	0.0		76	990	64	72	102	40	19	18	6.1	24
25	36	0.0		1240 *	998 *	66	40	132	75	22	11	18	25
26	6.1	0.0		1260	826	26	10	160	91	18	4.1	4.7	26
27	5.2	0.0		529	545	10	38	109	90	21	3.6	14	27
28	4.5	0.0		207	515	4.2*	52	86	64	44	9.3	19	28
29	4.3	0.0		148		87	71	105	97	15	16	37	29
30	3.2	0.0		91 *		102	27	70	110	9.4	34	42	30
31	2.9			80		66		77		19	78		31
MEAN	14.2	3.2		205	298	119	80.2	74.7	76.7	23.6	23.4	35.0	MEAN
MAX.	54	11		1260	998	829	191	160	126	69	78	93	MAX.
MIN.	0.5	0.0		0.0	26	1.4	10	3.9	14	9.4	3.6	1.9	MIN.
AC. FT.	876	189		12580	16550	7322	4770	4596	4566	1449	1438	2085	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
77.9	1840	9.61	1	25	1030	0.0		11	21	1800	[illegible]6420

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF. DATUM
37 24 51	121 [illegible] 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-DATE		1957 1968	1968	0.00 0.00	LOCAL USCGS

Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs.

a Local datum then in use.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	807250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	374	711	519	975	13800	25900	15400	7850	15400	4980	1340	1580	1
2	384	736	514	902	13700	25000	15000	7230	15400	4780	1350	1530	2
3	411 *	751	508	845	13300	24600 *	14900	7180	15500	4640	1330	1530	3
4	384	662	522 *	758	13100	23600	14800	8880	15500 *	4540	1420	1580 *	4
5	428	638	536	692	13300	23700	14900	11000	15600	4410	1340	1660	5
6	403	659	530	632 *	13900	22600	15200	11600	16100	4270	1320	1650	6
7	365	653 *	503	582	15000 *	21600	15600	11600	16900	4150	1300	1670	7
8	339	597	490	558	17900	21400	17300 *	11000	18100	3970	1290	1870	8
9	317	555	477	534	20100	21300	17700	9580	19200	3490	1290	1940	9
10	319	522	474	525	20400	21300	17000	8800	20000	2980 *	1270	1950	10
11	295	514	490	508	19900	21300	16300	10200	20300	2640	1280	1900	11
12	313	500	495	514	19900	21300	16000	11800 *	20200	2430	1230	1800	12
13	406	525	495	594	19300	20800	15600	12500	19600	2160	1170	1790	13
14	544	549	519	752	18900	20100 *	14800	12600	18800	1980	1110	1780	14
15	592	597	547	1650	19200	19800	13800	12900	17800	1840	1050	1640	15
16	609	629	597	2820	19200	19500	13400	13200	16800	1780	1090	1590	16
17	629	677	632	3430 *	19400	19200	13100	13500	16000	1770	1240	1620	17
18	677	692	629	3580	20400	19000	12800	13600	15600	1710	1340	1450	18
19	561	677	621	3550	21200	18800	12700	13600 *	15300 *	1610	1320	1440	19
20	495	653	600	4260	22000 *	18800	12400	13600	14900	1550	1350	1400	20
21	498	638	569	5340	22600	18800	11800	13800	14100	1560	1360	1410	21
22	538	621	561	7460	22300	18800	11200	14200	13400	1590	1360	1450	22
23	600	600	549	10100 *	22000	19400	10500	14400	12800	1590	1390	1440	23
24	600	600	547	11700 *	22600	19600	10100	14400	11700	1500	1430	1400	24
25	621	612	563	12500	25300	19300	9870	14500	10900	1440	1480	1270	25
26	641	609	592	12600	30000	19100	9540	14600	10500	1410	1430	1160	26
27	641	618	680	14600 *	30100 *	18900	9360	14600	9320	1420	1430	1120	27
28	665	595	1070	17500	28500	18600	9300	14800	7700	1460	1460	1110	28
29	677	569	1210	15600		18000	9100	15000	6140	1390	1480	1090	29
30	662	544	1150	14600		17200	8400	15200	5260	1380	1510	1100	30
31	683		1060	13900		16200		15300		1340	1530		31
MEAN	506	617	621	5308	19900	20440	13260	12360	14800	2508	1332	1529	MEAN
MAX.	683	751	1210	17500	30100	25900	17700	15300	20300	4980	1530	1950	MAX.
MIN	295	500	474	508	13100	16200	8400	7180	5260	1340	1050	1090	MIN
AC. FT.	31180	36700	38180	326400	1105000	1257000	789200	759700	882300	154200	81900	91000	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
= — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO.	DAY	TIME	TOTAL ACRE FEET
7670	30760	58.81	2	26	0850	289	38.29	10	11	0700	5553000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 26 52	121 30 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.
Flows regulated by upstream reservoirs, and diversions.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.0	589	601	2950	8060	7370	6260	4990	8920	439	17	155	1
2	5.1	587	667	2570	5260	7270	5740	3730	8930	207	18	166	2
3	5.9	580	617	1560	7960	6980 *	4720	3080	8920	25 *	18	174 *	3
4	6.5*	593	628 *	1140	7740	5150	3560	2910	8790	292	22 *	212	4
5	6.2	588	1180	940	7460	3700	4220	2120	8800 *	854	11	107	5
6	5.6	609	1360 E	1700	7450	3350	5840	1800	9020	761	9.2	20	6
7	6.0	573 *	1300 E	1250 *	5490 *	3340	6370 *	2600	9110	521	9.0	19	7
8	6.2	574	1230 E	1080	7300	3330	6880	3280	9110	419	9.2	18	8
9	6.4	574	1170 E	1070	7240	3330	6140	3480 *	9160	1250	9.2	17	9
10	6.6	242	1100 E	1000	7140	3340	4480	3390	9310	2430	9.7	21	10
11	6.7	37	1040 E	933	7090	3340	4480	3380	9310	1880	10	27	11
12	6.4	26	1140 E	537	7050	3340	4500	3370	9280	1560	10	21	12
13	7.0	18	1360 E	1180	6960	3340	4510	3610	9240	1550	10	20	13
14	20	14	1060 E	1270	6870	3340	4500	4310	9140	1140	11	19	14
15	44	16	860 E	1620	6820	3350	3950	6180	6850	3200	12	19	15
16	43	12	1260 E	1580	6800	3350	3070	7560	5180	3130	12	28	16
17	38	12	1520	1550	5850	2900	3260	8100	6120 *	1050	13	150	17
18	32	12	1490	1600	5080	2620	3300	8120	6580	426	13	171	18
19	32	13	1500	3960	6100	2620	3640	8170	4400	572	13	194	19
20	23	13	1790	6920	6050	2660	3950	8210	3420	1060	37	198	20
21	37	14	1840	8060	4940	3840	3790	8220	3310	1140	17	200	21
22	71	14	1800	7910 *	3970	4130	3560	8230	3270	303	14	198	22
23	428	14	1950	7850	4000	4090	3210	8250	4330	211	14	200	23
24	607	14	1660	8010	5260	4760	3720	8330	6120	200	12	204	24
25	601	14	1380	8410	7080	5330	4040	8340	6780	285	12	323	25
26	595	51	2290	28400 *	7560	4320	4010	8400	5150	401	13	1210	26
27	592	413	3080	13200 *	7490	3600	4050	8700	2610	324	94	1860	27
28	582	606	3070	9810 *	7430	3600	3720	8860	922	64	111	1860	28
29	605	598	3040	8440		3790	3880	8850	908	19	121	1720	29
30	590	603	3010	7810		5090	4620	8870	640	20	132	1390	30
31	590		2990	7430		6320		8880		18	144		31
MEAN	181	267	1580 E	4895	6554	4093	4399	6010	6454	831	30.9	364	MEAN
MAX	607	609	3080	28400	8060	7370	6880	8880	9310	3200	144	1860	MAX.
MIN.	3.0	12	601	537	3970	2620	3070	1800	640	18	9.0	17	MIN.
AC. FT.	11120	15910	97200E	301000	364000	251700	261800	369600	384100	51080	1899	21660	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2943	52200	186.29	1	26	1100	2.0	166.85	10	1	1130	2131000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 39 59	120 27 40	NW20 3S 14E	52200	188.0 186.29	12- 8-50 1-26-69	OCT 36-SEP 60 OCT 61-DATE		1937		1.76	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	73	723	711	3200	8520	7960	6770	5280	9220	457 E	127	233	1
2	74	722	715	3060	7070	7860	6150 *	4730	9250 *	266 E	127	233	2
3	76	752	787	1800	7140	7630	5790	3400	9250	256 #	120	265	3
4	78	700	742 *	1570	8340	6450	4080	3470	9180	307 E	120 *	303	4
5	80	724	836	1210	8280	4570	4230	2700	9100	1110 E	133	320	5
6	83	712	1500	1410 *	8280 *	3930 *	6190	2160 *	9250	1260	120	194	6
7	88 *	738 *	1500	1670	6700	3920	6320	2620	9340	1170	92	190	7
8	86	701	1330	1310	7740	3910	7050	3350	9340	768 E	92	138 *	8
9	88	700	1240	1170	8110	3930	6930	3940	9290	825 E	92	111	9
10	88	653	1040	1150	8020	3930	5040	3760	9420	2620	94	111	10
11	86	213	1170	989	7970	3930	4880	3760	9420	2580	91	106	11
12	103	153	1080	932	7910	3940	4860	3750	9390	2100	92	111	12
13	101	133	1240	769	7830	3930	4840	3860	9350	2100	98	113	13
14	106	122	1310	1570	7770	3940	4740	4280	9300	1910	98	111	14
15	152	130	803	1740	7740	3940	4580	6000	8400	2490	100	106	15
16	135	124	765	1650	7720	3930	3360	7260	5820	3780	100	106	16
17	137	119	1610	1600	7380	3720	3380	8160	6100 *	2370	104	111	17
18	133	114	1640	1580	5780 *	3160	3450	8210	7240	783	103 *	244	18
19	136	110	1590	2500	6940	3150	3600	8260	5640	727	98	290	19
20	129	108	1760	7050 *	7030	3150	4110	8310 *	3900	1250	98	334	20
21	126	109	2110	8590	6480	3960 *	4090	8360	3760	1420	113	348	21
22	119	107	2000	8630	4830	4740	3920	8390	3680	946	116	348	22
23	154	109	1950	8440	4870	4700	3480	8450	4190	441	106	352	23
24	643	110	2070	8490	5450	4870	3630	8480	5930	418	101	362	24
25	695	110	1640	9150	8050	6000	4220	8580	7200	384	101	402	25
26	706	112	1880	20600 *	8150	5220	4200	8630	6450	617	101	782	26
27	709	123	3270	19100 *	8000	4170	4500	8780	4080	702	96	1790	27
28	700	638	3320	11000 *	7960	4140	4030	9030	1450	362 *	161	1820	28
29	718	699	3290	9680		4140	4020	9080	1330	163	194	1850	29
30	738	712	3260	8700		5010	4630	9120	1200	131	200	1540	30
31	729		3230	8080		6320		9180		127	225		31
MEAN	260	376	1658	5109	7359	4650	4702	6237	6882	1124	117	444	MEAN
MAX.	738	752	3320	20600	8520	7960	7050	9180	9420	3780	225	1850	MAX.
MIN.	73	107	711	769	4830	3150	3360	2160	1200	127	91	106	MIN.
AC. FT.	16010	22370	101900	314200	408700	285900	279800	383500	409500	69100	7166	26430	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
3211	38600	87.10	1	26	2000	69	68.47	10	1	0000	2325000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	804130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	58	14	12	67	211	921	36	102	135	135	67	217	1
2	50	15	12	52 *	173	699	46	92	135	145	93	190 *	2
3	58	41	12 *	44	152	322	48 *	86	139 *	82	76	179	3
4	59	154	12	40	122	259	48	77	131	71	79 *	178	4
5	61	86	12	37	104 *	192	61	80	131	61	83	157	5
6	69	45 *	12	35	143	156 *	529	79 *	138	63	84	79	6
7	82	29	12	33	559	125	429	78	143	62 *	76	85	7
8	78	21	12	31	241	104	177	97	143	72	77	88	8
9	66 *	19	12	30	159	89	88	135	141	70	78	97	9
10	60	18	12	31	124	79	59	156	118	67	84	90	10
11	66	17	12	31	115	119	51	157	102	143	92	81	11
12	79	17	12	30	167	94	51	149	107	155	88	75	12
13	85	16	12	30	352	79	54	143	152	163	74	79	13
14	122	16	14	1810 *	191	112	56	147	153	158	76	78	14
15	109	38	26	1750 *	185	91	51	134	164	131	68	86	15
16	62	84	47	317	1030	70	54	130	162	111	75	153	16
17	39	40	95	170 *	446	62	58	125	153	131	86	155	17
18	33	31	87	130	897	58 *	65	161	156	136	89	146	18
19	27	33	38	674	2060	51	60	154	142	82	80	151	19
20	26	23	26	3080 *	1210	48	60	141	132	79	74	166	20
21	24	20	20	2350 *	464	44	62	137	140	82	84	178	21
22	18	18	18	4540 *	323	191	69	138	132	88	79	188	22
23	16	15	16	1060	310	99	64	132	137	88	70	193	23
24	16	14	16	425	1530	59	76	127	116	74	72	201	24
25	14	13	26	1740	2920 *	44	80	125	121	84	67	164	25
26	13	13	352 *	4460 *	1680	37	71	125	115	104	69	83	26
27	15	13	934 *	2840	1060	35	85	135	114	122	82	82	27
28	15	13	239	704	402	31	97	166	118	132	89	90	28
29	15	12	144	722		28	109	149	116	82	145	94	29
30	15	12	135	397 *		25	111	138	129	81	146	89	30
31	15		97	261		24		154		82	167		31
MEAN	47.3	30.0	80.4	901	619	140	97.0	127	134	101	86.8	130	MEAN
MAX.	122	154	940	4540	2920	921	529	166	164	163	167	217	MAX.
MIN.	13	12	12	30	104	24	36	77	102	61	67	75	MIN.
AC. FT.	2906	1785	4943	55380	34370	8622	5762	7833	7964	6220	5338	7720	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
206	6613	87.18	1	22	0200	11	67.70	12	13	0100	148800

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 39 26	120 55 19	SE 24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	278	723	726	3020	8460	8520	5990	4450	9290	1420	715	449	1
2	284 *	726	750	2980	8410	8850	6200	4760	9330 *	1300	697	498	2
3	280	814	790	2770 *	6780	8320	6090 *	3910	9410	1090	604	461	3
4	282	833	821	1980	7680	7380	5240	3100	9470	879	449	510	4
5	288	833	808 *	1630	8180 *	5770	4550	2950	9510	818	414 *	661	5
6	290	786	920	1380	8270	4400	5140	2510	9540	1290	405	535	6
7	290	759 *	1330	1600	8430	3800 *	6310	2270	9730	1410	356	395	7
8	304	756	1340	1620	7170	3910	6330	2860 *	10000	1240 *	319	590 *	8
9	302	738	1250 *	1410	7960	3880	6600	3400	10100	1220	346	226	9
10	296	732	1210	1330	8300	3870	6020	3630	10100	1630	356	142	10
11	300	693	1130	1300	8100	3660	5010	3690	10300	2370	273	147	11
12	333	467	1130	1210	8110	3910	4810	3710	10200	2260	258	135	12
13	312	370	1120	1070	8100	3920	4920	3900	10100	2040	201	116	13
14	366	338	1320	1540	7930	3880 *	4850	4180	10100	2020	207	124	14
15	440	355	1210	3740	7850	4020	4820	4910	9840	1820	207	100	15
16	386	346	990	2700 *	8010	3970	4460	6200	8280	2550	166	112	16
17	338	335	1140	2200	8380	3910	3930	7200	6710	2400	189	161	17
18	312	310	1560	2170	7210	3820	3880	7930	7110	1890	175	135	18
19	294	304	1610	2300	7820	3530	3830	8290	7460 *	1320	175	319	19
20	278	296	1600	5420 *	8230	3490	4100	8440	7000	1270	151	590	20
21	266	292	1750	9050	7520	3680	4230	8570	4930	1490	138	719	21
22	260	292	1910	10900 *	6350	4220	4130	8680 *	4710	1530	138	701	22
23	251	292	1880	10200 *	5170	4570	3980	8730	4580	1220	131	697	23
24	245	290	1950	9020 *	5530 *	4410	3680	8760	5400	1020	127	715	24
25	477	292	1930	9100 *	8130	4800	3920	8830	6650	1100	116	715	25
26	625	292	1750	13000	9750	5120	4310	8850	7150	1070	97	647	26
27	659	292	2800	29100 *	9930 *	4420	4200	8880	6250	1200	94	1050	27
28	688	304	3390	16000 *	8860	4230	4260	9030	3990	1290	120	1910	28
29	696	562	3150	11800		4170	3920	9180	2040	981	166	2090	29
30	714	696	3110	10400 *		4400	4030	9220	1740	802	201	2080	30
31	726		3080	9180		5250		9250		737	304		31
MEAN	383	504	1595	5843	7879	4712	4791	6127	7700	1441	268	591	MEAN
MAX.	726	833	3390	29100	9930	8850	6600	9250	10300	2550	715	2090	MAX.
MIN.	245	290	726	1070	5170	3490	3680	2270	1740	737	94	100	MIN.
AC. FT.	23520	29990	98090	359200	437600	289700	285100	376800	458200	88620	16450	35170	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
3451	37900	42.86	1	27	0845	75	24.69	8	27	0400	2499000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	OF RECORD CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	816	1500	1410	3960	23700	39800	22100	13200	25700	8270	1930	2140	1
2	795	1540	1410	3860	24200	37500	21800	13200	25600	6690	1880	2170	2
2	812	1650	1420	3740	22800	35300	21200	12400	25200	6120	1790	2140	3
4	859 *	1680	1450	3140	21200	33300	20700	11200	24800 *	5870	1780	2150 *	4
5	894	1630	1460 *	2730	22200	31500	19800	10900	24600	5590	1780	2290	5
6	942	1570	1500	2410	22300	29000	19800	11900	24600	5540	1580 *	2350	6
7	942	1560 *	1800	2370 *	22400	26900	21200	12400	25100	5840	1560	2430	7
8	911	1540	1930	2540	22500	25700	22600	13300 *	25800	5610	1500	2720	8
9	872	1480	1880	2300	24300	25100	24200	14200	26900	5390	1500	2710	9
10	829	1430	1840	2280	26800	25900	24900	14200	28200	5200 *	1570	2670	10
11	820	1390	1770	2210	27300	26200	23800	13800	29000	5500	1540	2690	11
12	829	1220	1780	2170	27100	26400	22300	13700	29800	5420	1290	2650	12
13	983	1060	1750	2110	27100	26800	21400	14500	29800	4900	1180	2470	13
14	1220	1030	1600	2260	27800	26100	20500	15500	29100	4610	1200	2470	14
15	1480	1090	1990	3190	27800	25400	20100	16100	28300	4360	1000	2410	15
16	1450	1100	1770	3490	27900	24600	19100	17400	26300	4430	865	2310	16
17	1330	1120 E	1740	3600	28300	24100	17900	19000	22900	5200	1070	2350	17
18	1190	1120 E	2150	3660	28300	23500	17200	20400	21400	4670	1370	2300	18
19	1110	1130 E	2320	3710	28400	22800	16800	21300	21300 *	3740	1600	2220	19
20	987	1100	2300	4300	30400	22500	16600	21600	20300	3370	1580	2360	20
21	898	1080	2340	8120	31900	22300	16700	22000	18700	3580	1650	2390	21
22	876	1060	2480	15200	31100	22700	16500	22500	18000	3730	1690	2410	22
23	907	1050	2480	20300	30300	23700	15800	22800	17600	3460	1690	2410	23
24	938	1030	2500	18700	29200	24600	15100	23400	17200	2930	1720	2340	24
25	1050	1020	2580	20300	31500	24700	14600	23800	17700	2640	1940	2300	25
26	1270	1040	2460	22600	37500	25300	14600	24400	18300	2460	1830	2260	26
27	1340	1030	2890	31500	39700	24900	14400	24600	18400	2630	1720	2320	27
28	1400	1040	3900	34400 *	41800	23900	14300	24800 *	16600	2710	1740	3090	28
29	1430	1200	4080	33800		22900	13700	25000	13100	2540	1860	3450	29
30	1460	1370	4100	28800		22300	13400	25500	10200	2140	2000	3570	30
31	1470		4050	25700		21900		25800		2060	2030		31
MEAN	1068	1262	2230	10300	28060	26370	18770	18220	22680	4426	1595	2485	MEAN
MAX.	1480	1680	4100	34400	41800	39800	24900	25800	29800	8270	2030	3570	MAX.
MIN.	795	1020	1410	2110	21200	21900	13400	10900	10200	2060	865	2140	MIN.
AC. FT.	65670	75090	137100	633600	1559000	1622000	1117000	1120000	1350000	272100	98050	147800	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
11320	42800	36.46	2	28	0400	782	14.81	10	3	0000	8197000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E	42,800	36.46	2-28-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Maximum discharge shown does not reflect the maximum gage height. Due to a backwater condition caused by the Stanislaus River, the maximum gage height was 37.00 feet and occurred at 2400 hours on 2-28-69.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	69 *	108	329	7440	5120	2860	2290	8720	881	49	45	1
2	18	70	100	468 *	5030	4840	2650 *	2340	8750 *	565 *	45	43 *	2
3	22	104	158 *	476	4870	4680	2500	2370	6810	245	42	50	3
4	23 *	104	120	467	4330	4130	2500	2380	8720	1040	39 *	58	4
5	25	78	102	460	3480 *	4150	2960	2410	8480	1110	39	52	5
6	26	93	110	460	3670	4080	3840	2410 *	8040	481	40	64	6
7	26	110	98	579	3250	3970	3740	2430	8550	774	44	68	7
8	24	98	112	972	3610	3840	3740	2460	6640	540	49	62	8
9	25	108	107	990	3650	3690	3760	2620	6210	260	46	47	9
10	27	102	100	1590	3790	3740 *	3870	3040	5080	255	46	40	10
11	26	104	118	1340	4670	3440	3900	6940	3210	285	45	40	11
12	33	110	112	1580	5660	3040	3230	7180	1990	510	53	42	12
13	33	104	98	2290	5170	2530	3110	7680	1230	518	49	38	13
14	35	104	135	3760 *	5000	2370	2910	7970 *	677	508	49	38	14
15	36	158	133	2690	5240	3540	2710	8280	648	1070	46	37	15
16	30	125	195	2460	4950	3470	2630	8360	1980	452	45	42	16
17	25	98	124	2360	4730	3410	2620	8360	4100 *	97	44	44	17
18	32	114	124	2090	5410	3310 *	2540	8360	3490	80	45	41	18
19	80	114	102	4380 *	5070	3220	2410	8340	3260	66	47	46	19
20	80	114	114	7990 *	4900	3140	2410	8240 *	3260	54	54	37	20
21	82	104	114	22800 *	4510	3140	2360	8120	2980	47	49	36	21
22	82	91	114	16800	4120	3010	2340	8380	2680	50	45	39	22
23	74	102	114	8430 *	4670	2960	2300	8440	2430	44	44	62	23
24	72	108	122	7300	5760	2590	2340	8380	2050	45	47	770	24
25	75	110	225	10600 *	5590	2160	2360	8350	1420	47	50	1050	25
26	74	110	354	16200 *	5450	2460	2390	8450	720	45	49	1160	26
27	74	98	146	12700	5060	2460	2410	8420	161	44	46	1240	27
28	72	106	126	8850 *	5060	3120	2370	8540	112	42	52	1240	28
29	69	106	131	8360		3770	2280	8750	105	44	53	1190	29
30	84	108	116	8310		3660	2270	8730	107	42	54	703	30
31	78		107	8310		3260		8630		44	49		31
MEAN	47.7	104	130	5367	4791	3430	2810	6376	3711	332	46.9	281	MEAN
MAX.	84	158	354	22800	7440	5120	3900	8750	8750	1110	54	1240	MAX.
MIN.	18	69	98	329	3250	2160	2270	2290	105	42	39	36	MIN.
AC. FT.	2936	6196	8011	330000	266100	210800	167200	392000	224900	20400	2884	16710	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2277	28800	23.11	1	21	1400	18	1.27	10	2	0300	1648000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	803115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	203	177 *	189	225	a	4920	3480	2350	a	645	318	358	1
2	230	179	189	234 *	a	5010	3120	2380	|	999	337	340 *	2
2	261 *	192	186 *	367	5640	4920	2870	2470	|	921	392	349	3
4	238	241	187	436	5300	4730 *	2710	2540	|	670	354 *	363	4
5	249	268	205	462	4910	4360	2770	2590	|	1130	322	358	5
6	250	234	202	474	4080	4200	3340	2520	|	1280	348	366	6
7	265	208	191	485	3900	4100	3890 *	2560	a	961	335	423	7
8	238	200	190	528	3580	3980	3870	2520	6410	1010	337	508	8
9	233	201	185	817	3630	3850	3860	2580 *	6090	861	303	506	9
10	213	197	187	948	3670	3730	3840	2650	5900	717 *	312	474	10
11	207	196	191	1320	3790	3680	3950	3100	5490	660	345	427	11
12	205	197	189	1350	4330	3510	3980	4760	4260	641	352	390	12
12	248	202	192	1500	5120 *	3150	3660	6190	2760	791	352	374	12
14	339	202	201	2000	5180	2670	3490	a	1800	851	296	420	14
15	389	208	207	3060 *	5000	2630	3240	|	1350	782	318	430	15
16	376	240	225	2750	5110	3330	3000	|	1230 *	1110	319	440	16
17	309	252	264	2530	5040	3380	2850	|	2340	802	329	410	17
18	259	225	259	2410	4900	3330	2830	|	4000	555	340	384	18
19	221	207	225	2300	5260	3260	2730	|	3790	495	325	439	19
20	193	206	211	3630	5270	3180	2610	|	3550	454	302	477	20
21	187	203	201	5450	5100	3130	2700	|	3500	452	306	461	21
22	187	201	197	a	4820	3090	2640	|	3280	395	299	481	22
23	187	196	195	|	4450	2970	2550	|	3040	393	262	400	23
24	192	190	197	|	4720 *	2900	2540	|	2700	362	357	385	24
25	183	190	206	|	5330	2600	2510	|	2330	393	377	644	25
26	179	191	236	|	5530	2300	2550	|	1820	405	328	1080	26
27	173	193	350	|	5280	2450	2560	|	1250	447	373	1200	27
28	173	191	367	|	5010	2510	2560	|	862	452	325	1360	28
29	177	187	300	|		3110	2460	|	795	393	316	1420	29
30	179	190	263	|		3710	2400	|	683	374	398	1390	30
31	179		241	a		3740		a		342	390		31
MEAN	230	205	220			3498	3052			669	335	569	MEAN
MAX.	389	268	367			5010	3980			1280	398	1420	MAX.
MIN.	173	177	185			2300	2400			342	282	340	MIN.
AC. FT.	14130	12230	13540			215100	181600			41140	20600	33830	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *
a - SEE (a) BELOW

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
		48.78	1	22	1200	168	27.48	10	28	0700	

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M O B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OF GAGE	REF DATUM
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950 1963	1962	-0.63 0.37	USC&GS USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions.

a Water bypasses station by overflowing flood plain on right bank and discharge is not computed. Overflowing occurs at approximately 45 feet gage height.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1340	1840	1700	4320	31000	47600	25500	16900	33500	11200	2370	2700	1
2	1810	1900	1690	4200	29900	46200	25300	16900	33500	10100	2410	2700	2
3	2000	2120	1700	4160	28700	44200	24700	16800	33600	9450	2460	2680	3
4	2110	2100	1740	3690	27000	41800 *	24100	16100	33600	8500	2450	2710	4
5	2180	2100	1750	3230	26900 *	39300	23400	15900	33600	8260	2340	2790	5
6	2260	2020	1800 *	2880	26900	36400	23200	16400	33600	8660	2250	2880	6
7	2240	1980	2070	2780 *	27000	34000	24300	16700	33600	8540	2220	2980	7
8	2190	1940	2240	2990	27300	32200	25400	16900	33800	8110 *	2210	3250	8
9	2130	1870	2190	2950	28100	31000	26600	17200	34100	7650	2210	3300	9
10	2120	1830	2140	3000	30000	30400	27400 *	17400	34500	6860	2230	3260	10
11	2120 *	1780	2080	3200	31500	30000	27000	17200	35000	6910	2280 *	3250	11
12	2040	1620	2080	3320	31900	29900	26000	17800	34900	6930	2170	3210	12
13	1270	1390 *	2040	3340	32400	29800	25100	19600	34000	6490	2140	3120	13
14	1630	1330	2140	3580	32900	29200	24400	21300	32600	6080	2090	3150	14
15	1970	1410	2320	6180	32800	28400	23700	23000	31200	5620	2040	3160	15
16	2000	1440	2120	7700	32800	26100	22600	25100	29700	5700	1990	3070	16
17	1820	1500	2070	7560	32900	27900	21500	27200	27300	6640	2110	3090	17
18	1630 *	1500	2420	7650	32900	27300	20600	29000	26200 *	5910	2280	3090 *	18
19	1490	1470	2610	7770	32900	26700 *	20200	30300	26200	4350	2320	3000	19
20	1330	1440	2580	9350	34200	26300	19900	30900	25600	3750	2320	3200	20
21	1180	1400	2590	14000 *	35200	26000	19900	31200	24100	3790	2320	3260	21
22	1120	1380	2730	23100	35300	26000	19700	31300	22900	3830	2330	3300	22
23	1150	1350	2740	29600 *	34200	26400	19100	31500 *	21700	3630	2320	3270	23
24	1210	1310	2750	27200	33600	26800	18400	31900	20800	3140	2420	3200	24
25	1290	1280	2840	26300	34800	27100	17900	32200	20500	2940	2580	3240	25
26	1560	1290	2760	29100	38800	27200	17700	32400	20600	2820	2500	3480	26
27	1660	1290	3060	41700 *	44000	27100	17700	32400	20000	2950	2440	3590	27
28	1720	1290	4180	39000 *	45600	26500	17700	32500	17900	3020	2470	4190	28
29	1770	1410	4460	36800		26000	17400	32700	15200	2930	2500	4680	29
30	1800	1650	4490	35000		25800	17100 *	33000	12800	2670	2620	4850	30
31	1810		4430	32600		25550		33300		2520	2670		31
MEAN	1384	1604	2533	13810	32550	30870	22120	24610	27890	5803	2325	3255	MEAN
MAX	2000	2100	4490	41700	45600	47600	27400	33300	35000	11200	2670	2680	MAX.
MIN.	1010	1280	1690	2780	26900	25500	17100	15900	12800	2520	1990	4850	MIN.
AC. FT.	85110	95460	155700	849400	1808000	1898000	1316000	1513000	1659000	356800	142900	193700	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
13920	52600	34.55	1	27	2200	1010	10.48	10	2		10070000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 42 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	227	417			400				1
2				0	122	361			1000				2
3				0	91	361			2620				3
4				0	91	350			2850				4
5				0	116	345			3140				5
6				0	172	325			3480				6
7				0	169	300			3740				7
8				0	140	265			3730				8
9				0	134	220			3737				9
10				0	76	235			3849				10
11				0	55	213			3900				11
12	N	N	N	0	55	191	N	N	3890	N	N	N	12
13	O	O	O	0	55	169	O	O	3850	O	O	O	12
14				0	55	149			3930				14
15				0	55	159			3900				15
16	F	F	F	0	55	167	F	F	3824	F	F	F	16
17	L	L	L	0	55	175	L	L	3800	L	L	L	17
18	O	O	O	0	55	170	O	O	3640	O	O	O	18
19	W	W	W	0	55	160	W	W	3506	W	W	W	19
20				59	55	110			3330				20
21				560	55	105			3030				21
22				276	55	105			3490				22
23				238	55	100			2001				23
24				57	811	96			1440				24
25				608	2200	0			1060				25
26				773	2800	0			1000				26
27				1092	1025	0			600				27
28				448	817	0			200				28
29				253		0			200				29
30				242		0			50				30
31				179		0							31
MEAN				154	347	169			2640				MEAN
MAX.				1092	2800	417			3930				MAX.
MIN.				0	55	0			50				MIN.
AC. FT.				9491	19250	10410			157100				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
271	4110		6	12	0400	0		10	1	0000	196200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 10	119 50	20S 19E	4102a		6-12-69	1937-DATE					

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

a Maximum discharge since 1950.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C02602	CROSS CREEK BELOW LAKELAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	2118	3050	0.0	385	1167				1
2				0.0	2025	3016	0.0	395	1349				2
3				0.0	1974	2919	0.0	430	1472				3
4				0.0	1819	2441	0.0	490	1551				4
5				0.0	1435	1701	0.0	515	1689				5
6				0.0	879	1257	84	515	1848				6
7				0.0	580	1249	351	480	1575				7
8				0.0	810	1380	624	455	2099				8
9				0.0	1310	1676	825	490	2158				9
10				0.0	1320	1868	1035	520	2170				10
11				0.0	1250	1839	1103	530	2089				11
12	N	N	N	0.0	1337	1805	1040	525	1869	N	N	N	12
13	O	O	O	0.0	1386	1786	1035	505	1200	O	O	O	13
14				0.0	1230	1753	1095	410	436				14
15				0.0	970	1559	1096	365	98				15
16	F	F	F	0.0	740	1236	1013	350	0.0	F	F	F	16
17	L	L	L	0.0	795	1062	928	345	0.0	L	L	L	17
18	O	O	O	0.0	750	1032	858	340	0.0	O	O	O	18
19	W	W	W	0.0	580	784	803	335	0.0	W	W	W	19
20				0.0	510	441	768	285	0.0				20
21				313	581	314	727	240	0.0				21
22				484	607	301	669	225	0.0				22
23				951	605	309	614	342	0.0				23
24				661	663	275	575	460	0.0				24
25				123	1345	214	578	510	0.0				25
26				323	3270	167	595	535	0.0				26
27				1695	4030	115	581	600	0.0				27
28				2550	3314	41	517	575	0.0				28
29				2625		0.0	420	730	0.0				29
30				2336		0.0	354	985	0.0				30
31				2210		0.0		1080					31
MEAN				460	1365	1148	610	482	759				MEAN
MAX				2625	4030	3050	1103	1080	2170				MAX.
MIN				0.0	510	0.0	0.0	225	0.0				MIN.
AC. FT.				28310	75830	70590	36270	29650	45160				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
395						0.0		10	1	0000	285800

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					

Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District. The flows for the 1969 water year were compiled at Nevada Avenue, as the station directly below Lakeland Canal No. 2 was inoperative during the flood of 1969.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1												0	1
2												0	2
3												0	3
4												0	4
5												0	5
6												0	6
7												0	7
8												0	8
9												0	9
10												0	10
11												0	11
12	N	N	N	N	N	N	N	N	N	N	N	0	12
13	O	O	O	O	O	O	O	O	O	O	O	0	13
14												0	14
15												0	15
16	F	F	F	F	F	F	F	F	F	F	F	7	16
17	L	L	L	L	L	L	L	L	L	L	L	11	17
18	O	O	O	O	O	O	O	O	O	O	O	12	18
19	W	W	W	W	W	W	W	W	W	W	W	12	19
20												11	20
21												10	21
22												10	22
23												10	23
24												10	24
25												10	25
26												10	26
27												10	27
28												10	28
29												10	29
30												10	30
31													31
MEAN												5.1	MEAN
MAX.												12	MAX.
MIN.												0	MIN.
AC. FT.												303	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
0.8	12	0.38	9	18	0001	0		10	1	0000	303

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1										0	0	100	1
2										0	0	102	2
3										0	0	102	3
4										0	0	93	4
5										0	0	90	5
6										0	0	89	6
7										0	0	88	7
8										0	0	89	8
9										0	0	89	9
10										0	0	89	10
11										0	0	89	11
12	N	N	N	N	N	N	N	N	N	0	0	89	12
13	O	O	O	O	O	O	O	O	O	0	0	89	13
14										0	0	89	14
15										0	30	89	15
16	F	F	F	F	F	F	F	F	F	0	89	79	16
17	L	L	L	L	L	L	L	L	L	0	90	75	17
18	O	O	O	O	O	O	O	O	O	0	90	66	18
19	W	W	W	W	W	W	W	W	W	0	89	90	19
20										0	26	90	20
21										0	0	90	21
22										0	33	84	22
23										0	100	56	23
24										0	100	46	24
25										31	100	42	25
26										100	99	40	26
27										100	157	45	27
28										97	128	50	28
29										96	108	50	29
30										62	100	50	30
31										0	100		31
MEAN										16	46	78	MEAN
MAX.										100	157	102	MAX.
MIN.										0	0	40	MIN.
AC. FT.										964	2854	4659	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
11.7	190	2.07	8	27	1000	0		10	1	0000	8477

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 25	119 [illegible] 15	NW29 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	73.0	1830 *	2791	1136	532	510	298	321	93	1
2			0	65.0	1599 *	2780	321	538	516	289	335	90 *	2
3			0	37.0	1184 *	2780 *	43	543	566	294	351	93	3
4			0	0	684 *	2768	23	549	589	302	346	90	4
5			0	0	543 *	2360 *	601	471	560 *	307	335	97	5
6			0	0	649 *	1480 *	952	341	494	316	316	103	6
7			0	#	1072 *	1281	1048	330	437	307	298	107	7
8			0	0	1254 *	1263	1245	321	437	302	298	111	8
9			0	0	1272	1263	1451	307	426	307	294	115	9
10			0	0	1056	1236 *	1470 *	289	361	321	298	119	10
11			0	0	635 *	1236	1470	298	341	335	307	115	11
12	N	N	0	0	608	1192	1490	285	267	335	325	111	12
13	O	O	0	0	595	1080 *	1490	178	204	335	346	111	13
14			0	0	578	976	1480	123	191	325	351	123	14
15			0	43.0	572	824	1490	174	187	302	311	136 *	15
16	F	F	0	111.0*	566	831	1500	195	178	298	298	128	16
17	L	L	0	83.0	560	831 *	1490	200	195	298	298	97	17
18	O	O	0	63.0	572	838	1327	191	204	311	311	80	18
19	W	W	0	90.0	584	831	1184	191 *	200	330	330	80	19
20			0	217.0*	595	852	1176	174	195	346	253	87	20
21			0	258.0	747	845 *	1048 *	191	204	341	213	93	21
22			0	285.0	928	873	880	271	213	335	191	97	22
23			0	187.0*	1272	904	866	341	204 *	346	178	78	23
24			0	191.0	1480	904	824	351	195	335	178	49	24
25			0	399.0	2597 *	912	775	377	271	346	182 *	43	25
26			0	1638.0	2803 *	904	775	372	321	351	140	40 *	26
27			0	2034.0	2904	904	775	437	330	356	174	37	27
28			5.0	1688.0	2891	888	768	488	330	356	132	45	28
29			73.0	1790.0		896	698 *	538	325	351	107	47	29
30			93.0*	1989.0		896	595	549	307	330	100	43	30
31			100.0	1820.0		984		526		307	97		31
MEAN			8.7	421.3	1165.4	1271.1	1013.0	344.2	325.3	323.0	258.5	88.6	MEAN
MAX.			100	2034	2904	2791	1500	549	589	356	351	136	MAX.
MIN.			0	0	543	824	23	123	178	289	97	37	MIN.
AC. FT.			538	25906	64722	78156	60281	21166	19355	19859	15896	5272	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
429.8											311,151

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 40	119 06 22	NW 30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	8.1	15.8	0	18.9			0	9.0	10.4	9.0	20.6	14.2	1
2	8.7	15.8	0	18.6			0	9.0	10.4	10.7	20.0	14.5	2
3	8.7	16.8	0	17.8			0	8.7	10.4	11.6	19.6	14.5	3
4	8.7	16.8	0	17.8			0	6.5	10.4	11.9	20.0*	14.6	4
5	8.7	6.9	0	18.6			0	6.8	10.4	11.6	20.0	14.8	5
6	8.4	0	0	19.3*			0	7.8	10.4	11.0	20.0	14.8	6
7	7.5*	0	0	20.3			0	7.8	10.0	11.3*	20.6	14.5	7
8	7.8	0	0	20.3			0	7.8	10.0	11.6	20.0	14.2	8
9	7.8	0	0	20.7			0	7.8	10.4	11.9	18.9	14.5	9
10	7.5	0	0	20.7			0	7.5	10.0	14.2	18.2	14.5	10
11	7.5	0	0	20.3			0	7.8	9.6	15.8	19.3	14.2	11
12	7.5	0	0	20.0	N	N	0	7.5*	9.3	15.5	20.3	14.5	12
13	8.4	0	0	20.3*	O	O	0	6.8	10.0	15.5	20.0	15.8	13
14	8.4	0	0	20.3			0	6.8	10.7	15.5	14.8*	16.8	14
15	2.8	0	0	16.5			0	6.8	10.7	15.2	12.9	17.5*	15
16	0	0	0	13.5	F	F	0	7.5	10.4*	16.8	14.8	16.2	16
17	0	0	0	14.8	L	L	0	8.7	9.6	17.8	14.5	14.2	17
18	0	0	0	14.5	O	O	0	10.0	9.6	17.5	14.2*	14.2	18
19	0	0	0	9.5	W	W	0	10.4	9.3	17.5	14.2	14.6	19
20	0	0	0	7.6			0	10.0	9.3	17.5	13.9	14.8	20
21	0	0	0	1.6			0	10.0	9.3	18.2*	14.8	15.5	21
22	0	0	0	0			0	10.4	9.6	18.9	13.5	15.8	22
23	0	0	0	0			0	10.4	9.6	20.3	11.9	16.2	23
24	0	0	0	0			0	10.4	9.3	21.0	12.2	16.2	24
25	0	0	0	0			7.4	10.4	9.3	21.3	11.9*	16.2	25
26	0	0	0	0			11.9	10.4*	9.3	21.0	9.0*	15.8	26
27	0	0	0	0			11.9	10.4	7.8	21.0	10.7	16.2	27
28	0	0	0	0			12.2*	10.0	8.7	20.7	9.6	16.5	28
29	5.7	0	0	0			11.9	10.4	8.7	20.7	12.9	16.2	29
30	15.2	0	11.3	0			10.0	10.4	8.4	21.0	13.2	15.8	30
31	15.8		19.3	0				10.7		20.7	13.5		31
MEAN	4.9	2.4	1.0	11.4			2.2	8.9	9.7	16.3	15.8	15.3	MEAN
MAX.	15.8	16.8	19.3	20.7			12.2	10.7	10.7	21.3	20.6	17.5	MAX.
MIN.	0	0	0	0			0	6.5	7.8	9.0	9.0	14.2	MIN.
AC. FT.	303	143	61	698			129	545	578	1000	972	910	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
7.4											5339

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE		OCT 62	OCT 62	0.00 -2.00	LOCAL LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1969	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	114.0	73.0	21.9	4.[illegible]	154.0	134.0	140.[illegible]	114.0	1
2				0	110.0	75.4	6.8	3.6	156.[illegible]	136.0	14[illegible]	114.0	2
2				0	101.4	80.0	4.5	3.3	158.0	138.0	140.[illegible]	83.4	2
4				0	97.2*	76.4	4.6	2.9	156.0	138.0	140.0*	56.0*	4
5				0	105.2	78.0	77.2	2.5	156.[illegible]	14[illegible].0	140.0	54.[illegible]	5
6				0	116.6	63.0	104.0	2.3	158.[illegible]	138.0	14[illegible].0	53.[illegible]	6
7				0	115.0	56.0*	102.8	2.2	158.0	140.0	140.[illegible]	52.4	7
8				0	114.0	54.0	105.2	2.1	158.0	142.0	138.0	52.4	8
9				0	112.4	49.6	105.2*	20.0	156.0	138.0*	136.0	51.4	9
10				0	109.0	60.4	105.2	53.0*	156.0	136.0	136.0	51.4	10
11				0	109.0	67.0	105.2	54.0	158.0	136.0	134.0	51.4	11
12	N	N	N	0	98.0	64.0	105.2	53.0	154.0	136.0	134.0	45.6	12
13	O	O	O	0	85.0	63.0	105.2	102.8	152.0	136.0	132.0	28.8	13
14				0	80.8	65.0	106.5	144.0	150.[illegible]	136.0	128.6	16.8	14
15				0	79.0	69.0	109.0*	150.0	148.[illegible]	136.0	130.0	8.6*	15
16	F	F	F	0	79.0	69.0	102.8	158.0	148.0	138.0	128.6	9.0	16
17	L	L	L	0	74.6	67.0	102.8	158.0	142.0*	138.0	132.0	14.3	17
18	O	O	O	0	84.2	69.0	102.8	156.0	128.6	138.0	136.0	12.1	18
19	W	W	W	55.8	82.6	69.0	104.0	152.0	127.0	140.0	136.0	12.1	19
20				136.0*	68.0	69.0	104.0	154.0	130.0	138.0	136.0	11.8	20
21				138.0	69.0	68.0	101.4	154.0	134.0	138.0	132.0	11.8	21
22				119.4	64.0	25.1	100.2	152.0	132.0	136.0	130.0	12.1	22
23				112.4*	54.0	5.4	99.2	156.0	132.0	142.0	130.0	11.8	23
24				110.0	51.4	3.9	98.0	150.0	132.0	148.0	128.6	11.0	24
25				121.0	68.0	3.2	98.0	144.0	132.0	148.0	130.0	10.6	25
26				100.2	51.4	2.9	99.2	152.0	132.0	150.0	125.6	14.1	26
27				90.2	82.6	7.8	99.2	154.0*	132.0	150.0	119.4	14.9	27
28				70.0	73.6	23.8	30.4	150.0	132.0	154.0	118.0	13.8	28
29				80.0		23.4*	5.2	150.0	132.0	148.0	114.0	13.8	29
30				102.8		23.4	4.4	148.0	134.0	136.0	112.4	13.4	30
31				110.0		22.4		152.0		140.0	114.0		31
MEAN				43.4	87.5	49.8	80.7	98.1	144.3	140.1	131.3	34.0	MEAN
MAX.				138.0	116.6	80.0	109.0	158.0	158.0	154.0	140.0	114.0	MAX.
MIN				0	51.4	2.9	4.4	2.1	127.0	134.0	112.4	8.6	MIN
AC. FT.				2669	4858	3065	4800	6029	8584	8612	8075	2023	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
67.3											46715

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T. & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0		0	0	8.4	0	7.9	4.6	1
2					0		0	0	8.4*	0	7.0	4.4*	2
3					0		0	0	8.4	4.8	6.1	3.7	3
4					0		0	0	8.4	6.0	6.2*	2.0	4
5					0		0	0	8.4	5.7	6.0	4.9	5
6					0.5		0	0	8.5	0.4	5.8	4.7	6
7					1.3		1.1	0	8.4	2.2	5.7	4.1	7
8					1.1		3.1	0	8.4	2.2	6.0	2.8	8
9					0.9		3.1*	0	8.4	3.8*	5.8	4.8	9
10					0.8		3.0*	0	8.4	11.0	5.7	4.8	10
11					0.7		1.9	0	8.5	11.6	5.7	4.1	11
12	N	N	N	N	0.3	N	0.4	0	8.6	11.6	5.8	2.5	12
13	O	O	O	O	0	O	0	0.2	8.8	11.9	5.8	3.8	13
14					0		0	2.3	8.8	13.6	5.5	4.1	14
15					0		0	3.3	8.9	15.0	5.6	3 2	15
16	F	F	F	F	0	F	0	6.9*	9.1*	12.7	5.5	3.1	16
17	L	L	L	L	0	L	0	8.1	8.8	11.3	5.5	6.5	17
18	O	O	O	O	0	O	0	8.1	8.9	11.8	5.6	4.4	18
19	W	W	W	W	0	W	0	8.0	9.7	11.2	5.6	3.6	19
20					0		0	7.9	10.0	10.7	5.7	4.5	20
21					0		0	7.7	10.8	10.8*	5.9	4.3	21
22					0		0	8.9	10.6	10.3	6.0	4.2*	22
23					0		0	10.3	10.8*	10.2	6.1	4.7	23
24					0.2		0	8.8	9.1	9.5	6.0	3.4	24
25					0.7		0	8.0	8.1	8.3	6.0	1.0	25
26					0		0	8.8*	8.0	5.6	5.4	3.2	26
27					0		0	8.8	5.0	0.8	4.2	6.6	27
28					0		0	8.6	0.2	3.3	0	5.5	28
29							0	8.5	0	6.7	1.8	5.3	29
30							0	8.8	0	6.6	4.6	5.0	30
31								8.6		7.6	4.6		31
MEAN					0.2		0.4	4.5	7.9	7.7	5.5	4.1	MEAN
MAX.					1.3		3.1	10.3	10.8	15.0	7.9	6.6	MAX.
MIN					0		0	0	0	0	0	1.0	MIN.
AC. FT.					13		25	279	470	470	335	246	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2.5											1838

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 04 06	119 01 06	SE 26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.9		0	6.0	1.4	0	5.2	0.4		1.5	3.7	4.9	1
2	3.0		0	6.2	2.7	0	1.6	0.5		2.4	3.7	5.8*	2
2	3.1		0	5.0	2.8	0	1.2	0.5		2.4	3.7	5.9	2
4	3.0		0	4.2	2.5*	0	1.4	0.5		2.5	3.7	5.8	4
5	3.1		0	4.2	3.0	0	4.4	0.5		2.6	3.7	5.3	5
6	3.0		0	4.0*	4.9	0.9	4.9	0.6		2.4	3.7	6.5	6
7	2.7*		0	3.8	5.0	3.2*	5.0	0.6		2.6*	3.7	6.3	7
8	2.2		0	3.6	3.8	3.2	5.2	0.6		2.7	3.8	5.6*	8
9	2.7		0	3.6	3.8	3.1	5.3*	0.7		2.9	3.9	4.1	9
10	2.8		0	3.6	3.5*	4.1	5.3	0.6		3.0	3.9	4.1	10
11	2.7		0	3.6	3.3	5.2	5.0	0.7		3.0	3.9	4.2	11
12	2.7	N	0	3.6	3.3	5.2	4.8	0.7*	N	3.0	3.9	4.7	12
12	2.7	O	0	3.4*	3.3	5.2	4.5	0.8	O	2.8	4.8	5.3	12
14	2.6		0	3.8	3.3	4.9	4.4	0.8		2.8	5.7	5.4	14
15	0.6		0	4.0	3.2	4.7	4.3	0.8		2.7	5.4	5.5*	15
16	0	F	0	4.0	3.2	4.7	4.4	1.0	F	2.7	4.7	4.9	16
17	0	L	0	4.0	3.2	4.5	4.3	1.0	L	2.8	4.5	4.0	17
18	0	O	0	3.9	3.2	4.7	3.9	1.0	O	3.0	4.6*	3.8	18
19	0	W	0	2.7	3.2	4.8	3.9	0.3	W	3.1	4.9	3.9	19
20	0		0.2	2.2	3.3	4.7*	3.9	0		3.3	4.9	3.8	20
21	0		4.3	4.0	3.5	4.8	4.0	0		3.6*	5.4	3.8	21
22	0		4.3	3.9	3.6	4.9	4.0	0		3.7	5.3	3.8	22
22	0		4.5*	3.7	3.8	4.9	4.0	0		4.0	4.9	3.8	22
24	0		4.6	3.6	3.8	4.9	4.0	0		4.0	4.9	3.9	24
25	0		4.6	4.2	2.2	5.0	3.0	0		3.9	5.1	2.4	25
26	0		4.9	4.4	0	5.2	0.4	0		3.6	5.0	2.8	26
27	0		5.5	3.1	0	5.0	0.4	0		3.6	3.9	3.9	27
28	0		6.0	2.3	0	5.0	0.4	0		3.6	4.7	4.0	28
29	0		6.0	1.4		5.0	0.4	0		3.6	6.7	4.0	29
30	0		6.1*	1.2		4.9	0.4	0		3.6	6.1	4.0	30
21	0		6.1	0.8		5.0*		0		3.7	4.7		31
MEAN	1.3		1.8	3.6	3.0	3.8	3.5	0.4		3.1	4.6	4.5	MEAN
MAX.	3.1		6.1	6.2	5.0	5.2	5.3	1.0		4.0	6.7	6.5	MAX.
MIN.	0		0	0.8	0	0	0.4	0		1.5	3.7	2.4	MIN.
AC. FT.	79		113	222	164	234	206	25		189	281	270	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2.5											1783

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE		1948		0.00	LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1969	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0		0	67.4	63.2	63.8	20.0	94.4	115.6	90.8	98.8	64.4	1
2	0		0	65.9	59.4	63.2	3.8	93.2	116.2*	90.8	98.2	62.2	2
2	0		0	42.4	54.5	64.4	0	93.8	111.0	90.8	98.2	38.6	2
4	0		0.2	9.2	40.0	64.9	4.9	93.8	112.6	90.2	98.2*	32.1	4
5	0		0.1	7.0	23.5	63.2	44.2	92.0	110.4	90.2	97.6	31.4	5
6	0		0	4.5	41.0	59.4	64.4	94.4	107.6	90.2	97.6	30.6	6
7	0		0	3.9	64.4	54.5*	66.9	98.2	105.2	90.8*	96.9	29.8	7
8	0		0	3.8	66.9	52.8	69.4	96.9	104.6	90.2	96.9	30.2*	8
9	0		29.8	3.5	66.4	53.4	66.4*	93.8	104.6	89.6	95.6	30.6	9
10	0		84.1	3.5	49.0*	52.4	65.9	84.6	104.6	89.6	95.6	33.9	10
11	0		77.2	3.6	25.5	51.5	67.9	80.6	104.0	89.0	96.2	40.6	11
12	0	N	80.0*	3.5	25.2	45.6	68.4	88.5	102.0	88.5	98.8	40.6	12
13	0	O	83.0	3.3	25.5	34.8	67.9	93.2	100.0	88.5	98.8	40.6	13
14	2.7		86.8	13.9	25.5	23.5	71.0	93.2*	99.4	88.5	97.6	40.6	14
15	0.9		86.8	64.4*	24.8	14.4	75.0	95.6	98.2	89.6	91.4	41.0*	15
16	0.7	F	87.9	71.0	24.5	13.7	80.0*	89.0	92.6*	89.0	79.0	38.6	16
17	0.3	L	87.3	68.9	24.1	13.7	82.4	86.8	90.8	88.5	80.0	35.2	17
18	0	O	89.6	65.9	24.1	13.9	85.1	90.8	92.6	89.6	75.0	33.9	18
19	0	W	90.8*	68.9	24.8	13.7	87.3	94.4	92.6	92.0	71.5	33.4	19
20	0		90.2	73.2	27.7	13.2	88.5	95.6	92.0	92.	76.6	32.6	20
21	0		92.0	78.4	31.8	12.9	90.8	99.4	91.4	91.4*	84.1	31.8	21
22	0.9		92.0	73.2	32.1	13.9	91.4	102.6	92.0	92.6	82.4	31.8	22
23	0.7		92.6	52.8	31.8	15.2	91.4	98.8	91.4	97.6	77.2	31.8	23
24	0.5		92.6	46.1	31.8	14.9	92.0	98.8	90.8	96.9	76.6	31.8	24
25	0.4		93.8	43.4	38.2	14.9	92.0	100.0	91.4	99.4	76.0*	31.4	25
26	0.4		92.0	40.6	50.5	14.9	91.4	100.8	90.8	99.4	76.0	30.6	26
27	7.0		89.6	36.1	58.9	14.2	90.8	100.8	90.8	98.8	75.0	30.6	27
28	3.8		90.8	36.1	63.8	13.7	92.6*	102.6	90.8	98.8	70.0	30.2	28
29	0.7		90.8	49.0		13.7	90.2	107.6	90.8	99.4	64.4	29.8	29
30	0.7		90.2*	59.9		13.7	92.0	111.0	91.4	98.8	63.8	29.8	30
31	0		79.5	61.8		17.4		110.4		98.2	64.9		31
MEAN	0.6		63.5	39.5	40.0	31.9	69.8	96.0	98.9	92.6	85.4	35.7	MEAN
MAX	7.0		93.8	78.4	66.9	64.9	92.0	111.0	116.2	99.4	98.8	64.4	MAX.
MIN.	0		0	3.3	23.5	12.9	0	80.6	90.8	88.5	63.8	29.8	MIN.
AC. FT.	39		3907	2430	2219	1963	4154	5902	5887	5692	5254	2123	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
54.6											39570

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE		1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1							0	5.3	0.9	8.8	10.1	1.7	1
2							0	5.5	1.6*	12.0	6.5	2.8	2
3							0	6.0	1.8	11.1	4.3	3.4	3
4							0	7.2	1.6	7.1	5.6	3.6	4
5							0	6.2	1.2	4.9	5.6	3.4	5
6							0	5.5	[illegible].9	4.2	5.7	3.7	6
7							0	5.4	3.6	4.2*	7.2	4.0	7
8							0	6.0	4.8	3.[illegible]	8.3	4.0	8
9							0	4.1	4.8	3.5	8.2	4.1	9
10							0	3.0	4.6	4.0	10.6	5.2	10
11							0	1.6	4.8	5.6	11.1	5.2	11
12	N	N	N	N	N	N	0	1.2*	5.9	5.6	11.6	6.4	12
13	O	O	O	O	O	O	0	0	7.8	5.7	11.8	8.6	13
14							0	0	9.2	5.8	10.8	9.3	14
15							0	0	9.3	7.4	5.7	9.3	15
16	F	F	F	F	F	F	0	0	16.4*	9.9	3.6	7.4	16
17	L	L	L	L	L	L	0	0	17.5	10.1	3.0	4.2	17
18	O	O	O	O	O	O	0	0	17.3	8.3	2.9*	2.4	18
19	W	W	W	W	W	W	0	0	16.7	8.1	2.9	2.4	19
20							0	0	15.8	9.7	6.2	2.5	20
21							0	3.1	4.2	8.6*	9.5	2.6	21
22							0	2.7	0.5	10.1	11.9	2.6*	22
23							5.5	3.9	2.3*	11.0	11.5	2.5	23
24							7.9*	5.8	2.4	11.0	11.0	2.5	24
25							3.8	6.2	1.1	10.9	9.1	2.5	25
26							0	6.3*	0.8	10.4	6.2	2.4	26
27							0	5.5	1.2	10.5	0	1.5	27
28							0	4.2	0.3	11.1	2.8	1.9	28
29							4.4	4.1	0.2	13.3	4.8	2.0	29
30							5.7	4.1	4.8	17.0	3.9	2.0	30
31								4.1		17.3	3.9		31
MEAN							0.9	3.5	5.5	8.7	7.0	3.9	MEAN
MAX.							7.9	7.2	17.5	17.3	11.9	9.3	MAX.
MIN.							0	0	0.2	3.0	0	1.5	MIN.
AC. FT.							54	212	326	536	429	230	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2.5											1787

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03940	RHODES-FINE DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15						NO FLOW STATION DISCONTINUED DITCH DESTROYED							15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 03 26	119 04 13	SE32 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 3.1 miles southwest of Porterville, approximately 3,100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	64.1	26.6	78.7	69.1	158.0	152.0				1
2			0	68.6	29.0	83.0	32.1	159.0	159.0*				2
3			0	40.0	27.8	83.0	29.8	159.0	163.0				2
4			0	0	16.7	83.0	29.4	152.0	161.0				4
5			0	0	21.7	61.6	57.4	142.0	161.0				5
6			0	0	38.1	60.0	76.1	135.0	159.0				6
7			0	0	68.1	78.7	80.9	134.0	159.0				7
8			0	0	75.0	78.7	84.6	133.0	160.0				8
9			0	0	70.2	83.0	82.0	129.0	159.0				9
10			0	0	55.2	83.0	83.0	122.0	163.0				10
11			0	0	23.1	83.0	83.0	118.0	163.0				11
12	N	N	0	0	39.5	83.0	83.0	116.0	162.0	N	N	N	12
13	O	O	0	0	56.3	84.1	86.2	117.0	165.0	O	O	O	13
14			0	0	69.1	81.4	87.8	120.0	167.0				14
15			0	13.5	72.9	78.2	80.9*	123.0*	172.0				15
16	F	F	0	27.8	72.3	75.5	87.3	112.0	182.0*	F	F	F	16
17	L	L	0	47.7	72.3	74.5	90.5	101.0	113.0	L	L	L	17
18	O	O	0	59.0	71.8	72.9	87.3	105.0	109.0	O	O	O	18
19	W	W	0	70.7	72.3	72.3	93.2	108.0	110.0	W	W	W	19
20			0	76.1	73.4	71.3*	98.0	117.0	113.0				20
21			0	68.1	76.6	70.2	105.0	123.0	120.0				21
22			0	59.0	69.1	70.2	123.0	148.0	123.0				22
23			0	36.7	79.8	73.4	127.0	142.0	125.0				23
24			0	32.5	78.7	73.4	119.0	147.0	121.0*				24
25			0	18.1	55.2	79.3	120.0	135.0	35.0*				25
26			0	22.0	50.9	77.7	120.0	148.0	0				26
27			0	28.2	69.7	75.5	120.0	153.0	0				27
28			1.0	17.0	80.9	73.9	128.0*	148.0	0				28
29			13.6	21.0		73.4	148.0	153.0	0				29
30			40.5*	27.8		70.7	154.0	153.0	0				30
31			57.4	21.3		70.2		153.0					31
MEAN			3.6	26.4	57.6	76.0	92.2	134.3	119.2				MEAN
MAX			57.4	76.1	80.9	83.0	154.0	159.0	182.0				MAX.
MIN.			0	0	16.7	60.0	29.4	101.0	0				MIN.
AC. FT.			223	1625	3198	4675	5486	8257	7093				AC.FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
42.2											30557

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M.D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT OHLT	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C05151	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	255	231	256	367	1276	2481	5992	6420	6322	4625	2854	3093	1
2	227	231	245	350	1262	2440	6315	6389	6219	3432	3419	2979	2
3	215	231	240	342	1248	2420	6217	5623	6368	4211	4048	2887	3
4	232	237	239	346	1235	2369	6146	6352	6894	4289	4120	2872	4
5	238	264	258	363	1222	2334	5861	6270	7521	4273	4154	2754	5
6	200	266	263	378	1191	2566	5100	6252	7480	4302	4131	2623	6
7	193	274	203	375	1217	2751	5605	5464	7371	4292	2859	2523	7
8	191	256	153	387	1207	2762	6348	6110	7246	4309	2900	2369	8
9	155	259	78	386	1203	2709	7093	6019	7214	4311	4021	2216	9
10	131	253	55	375	1596	2644	7186	5911	7251	4320	4073	2112	10
11	181	259	44	359	1939	2618	6850	5884	6868	4329	4116	2008	11
12	183	251	41	446	2004	2812	6772	5815	6642	4343	4124	1946	12
13	193	251	39	548	2046	3300	6683	5368	6624	3938	4081	1942	13
14	217	261	40	518	2134	3472	6498	4820	6632	4469	3842	1926	14
15	231	299	37	548	2265	3641	6421	4387	6612	4589	3803	1913	15
16	263	341	39	483	2247	3700	6406	4374	6611	4600	3639	1906	16
17	283	352	225	472	2285	4053	6372	4370	6605	4615	3633	1904	17
18	317	358	290	485	2428	4209	6358	4365	6219	4630	3661	1899	18
19	265	310	294	540	2438	4266	6345	4395	6090	4738	3650	1851	19
20	263	302	280	626	2364	4263	6322	4804	5800	4669	3655	1795	20
21	261	300	240	741	2378	4375	6319	4790	5689	4678	3639	1750	21
22	246	301	243	619	2367	4558	6302	4903	5667	3924	3652	1708	22
23	241	299	305	1203	2458	4829	6319	5246	5644	4508	3624	1691	23
24	230	297	369	2629	2890	5131	6399	5222	5631	4526	3548	1678	24
25	224	276	392	2602	2044	5178	6446	5239	5610	4080	3479	1614	25
26	229	260	406	2085	1772	5427	6481	5247	5585	4086	3312	1610	26
27	225	260	360	1519	2296	5711	6475	5210	5341	4095	3224	1610	27
28	222	259	353	1420	2552	5681	6485	5176	5137	4172	3147	1612	28
29	231	257	373	1344		5619	6442	5292	5137	4091	3140	1504	29
30	235	256	372	1312		5638	6429	5467	4925	4082	3134	890	30
31	224		369	1292		5664		6221		3625	3111		31
MEAN	226	275	229	821	1913	3859	6366	5400	6299	4292	3606	2040	MEAN
MAX.	317	358	406	2629	2890	5711	7186	6420	7521	4738	4154	3093	MAX.
MIN.	131	231	37	342	1191	2334	5100	4365	4925	3432	2854	890	MIN.
AC. FT.	13866	16365	14085	50499	106247	237265	378817	332015	374787	263903	221738	121359	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
= — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
2943	7576		6	5		31		12	15		2131000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,407 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16					INSUFFICIENT DATA TO PUBLISH DAILY FLOWS								16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
		2.25	2	24	2130	0.0		10	1	0000	

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

TABLE B-5

TULARE LAKE INFLOW

This table presents data on total inflow to Tulare Lake and the contribution of flow by the Kings, Kaweah, Tule, and Kern Rivers. The sum of the flows from the above listed streams does not equal the full amount of inflow to Tulare Lake because other unmeasured streams contributed to the total flow.

Record furnished by Tulare Lake Basin Water Storage District and Boswell Company.

For lake stage and area inundated see Table B-12 on page 126.

TABLE B-5

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		TOTAL INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	4261	6265	3650 E	2720	2775 E	90			1
2				0	3372	5783	3700 E	2670	4165	50			2
3				0	3204	5327	2832 E	2675 E	3845	0			3
4				0	2994	5350	3148 E	2675 E	5490	0			4
5				0	2775	5119	3570 E	1875	5552	0			5
6				0	2648	4843	3965 E	2700	6550	0			6
7				0	2821	3864	4300	3220	6625 E	0			7
8				0	2883	3664	4800	3020	6640	0			8
9				0	3087	3637	5000 E	3015	6855	0			9
10				0	3093	3558	5500	2905 E	6961	0			10
11				0	2679	3713	5900	2805 E	6785	0			11
12	N	N	N	0	2269	3679	5750 E	2710	6675	0	N	N	12
13	O	O	O	0	2276	3697	5750 E	2525	5440	0	O	O	13
14				0	1972	3572	5700	2535	4950 E	0			14
15				0	1814	3558	5700	2190	4540 E	0			15
16	F	F	F	0	1791	3535	5700	2265	4195	0	F	F	16
17	L	L	L	0	1915	3502	5100	2085 E	4075	0	L	L	17
18	O	O	O	0	1781	3505	4970	2015 E	3720	0	O	O	18
19	W	W	W	0	1785	3578	4700 E	1965	3550	0	W	W	19
20				0	1969	3540	4500 E	1775	3550	0			20
21				2620	1906	3522	4270	1499	2195	0			21
22				2270	2145	3562	3995	980	1990 E	0			22
23				1870	2361	3564	3800	820	1840 E	0			23
24				1390	2815	3620	3230	700 E	1493	0			24
25				2070	4014	3572	2890	750 E	1405	0			25
26				2079	6376	3436	2910 E	860	1185	0			26
27				4370	10414	3471	2925 E	865	760	0			27
28				4655	8817	3510	2960	1060	540 E	0			28
29				4609		3375	2885	1090	280 E	0			29
30				4688		3234	2830	1250 E	125	0			30
31				4639		3297		1375 E		0			31
MEAN				1137	3223	3918	4231 E	1987 E	3825	4.5			MEAN
MAX.				4688	10414	6265	5900	3220	6961	90			MAX.
MIN.				0	1781	3234	2830	700 E	125	0			MIN.
AC. FT.				69937	178982	240896	251762E	122170E	227605	278			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1508											1092000

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		KINGS RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	0	700 E			1250 E	20			1
2				0	0	300 E			2500	0			2
3				0	0	100 E			2000	0			3
4				0	0	50 E			3200	0			4
5				0	0	0			3302	0			5
6				0	0	0			4000	0			6
7				0	0	0			4000 E	0			7
8				0	0	0			3995	0			8
9				0	0	0			4150	0			9
10				0	0	0			4076	0			10
11				0	0	0			4030	0			11
12	N	N	N	0	0	0	N	N	4230	0	N	N	12
13	O	O	O	0	0	0	O	O	4040	0	O	O	13
14				0	0	0			3900 E	0			14
15				0	0	0			3800 E	0			15
16	F	F	F	0	0	0	F	F	3740	0	F	F	16
17	L	L	L	0	0	0	L	L	3520	0	L	L	17
18	O	O	O	0	0	0	O	O	3470	0	O	O	18
19	W	W	W	0	0	0	W	W	3300	0	W	W	19
20				0	0	0			3300	0			20
21				500	0	0			2105	0			21
22				250	0	0			1900 E	0			22
23				200	50	0			1750 E	0			23
24				50	75	0			1403	0			24
25				600	250	0			1315	0			25
26				700	800	0			1095	0			26
27				1100	2500	0			670	0			27
28				450	1300	0			450 E	0			28
29				250		0			200 E	0			29
30				250		0			55	0			30
31				125		0				0			31
MEAN				144	178	37 E			2692	0.6			MEAN
MAX.				1100	2500	700 E			4230	20			MAX.
MIN.				0	0	0 E			55	0			MIN.
AC. FT.				8876	9868	2281E			160160	40			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
250											181200

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		KAWEAH RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	2000 E	1300 E	150 E	630	1300 E				1
2				0	1300 E	1100 E	150	620	1440				2
3				0	1300 E	1000 E	150	700 E	1645				3
4				0	1400 E	1050 E	265 E	800 E	1860				4
5				0	1500 E	1100 E	380 E	860	2020				5
6				0	1700 E	1200 E	495 E	810	2180				6
7				0	1800 E	1230 E	610	780	2200 E				7
8				0	1500 E	1230 E	1060	710	2220				8
9				0	1400 E	1200 E	1200 E	700	2275				9
10				0	1400 E	1150 E	1650	750 E	2385				10
11				0	1400 E	1400 E	1660	750 E	2275				11
12	N	N	N	0	1300 E	1400 E	1500 E	760	1995	N	N	N	12
13	O	O	O	0	1300 E	1470 E	1450 E	760	1010	O	O	O	13
14				0	1100 E	1430 E	1400	690	700 E				14
15				0	980 E	1370 E	1400	510	450 E				15
16	F	F	F	0	1150 E	1300 E	1400	510	200	F	F	F	16
17	L	L	L	0	1040 E	1300 E	1400	510 E	300	L	L	L	17
18	O	O	O	0	970 E	1180 E	1376	515 E	20	O	O	O	18
19	W	W	W	0	1170 E	1020 E	1350 E	515	20	W	W	W	19
20				0	1150 E	880 E	1300 E	505	20				20
21				1160	1030 E	800 E	1240	494	0				21
22				1110	1100 E	740 E	1100	330	0				22
23				910	1110	700 E	1025	370	0				23
24				760	1210	640 E	918	400 E	0				24
25				710	1820	500 E	930	500 E	0				25
26				660	1920	400 E	950 E	665	0				26
27				2020	3630	400 E	975 E	595	0				27
28				2500	3230	440 E	1000	770	0				28
29				2500		350 E	770	840	0				29
30				2500		200 E	719	1000 E	0				30
31				2500		150 E		1150 E					31
MEAN				559	1497 E	956 E	999 E	661 E	884				MEAN
MAX				2500	3630	1470 E	1660	1150 E	2385				MAX.
MIN				0	970 E	150 E	150	330	0				MIN
AC. FT				34374	83127E	58770E	59451E	40659E	52592				AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
454											329000

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		TULE RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	1861	2935	850 E	540	150 E				1
2				0	1667	2863	900	500	175				2
3				0	1494	2617	202	400 E	150				3
4				0	1124	2550	358 E	300 E	140				4
5				0	895	2329	515 E	230	180				5
6				0	668	2023	670 E	210	295				6
7				0	721	1424	825	160	225 E				7
8				0	973	1254	875	160	175				8
9				0	1187	1217	900 E	90	180				9
10				0	1193	1218	1150	80 E	250				10
11				0	899	1173	1200	80 E	230				11
12	N	N	N	0	679	1149	1250 E	70	200	N	N	N	12
13	O	O	O	0	686	1147	1300 E	65	140	O	O	O	13
14				0	612	1052	1325	120	100 E				14
15				0	584	948	1325	30	50 E				15
16	F	F	F	0	451	865	1325	35	25	F	F	F	16
17	L	L	L	0	615	772	1270	25 E	25	L	L	L	17
18	O	O	O	0	571	775	1214	0 E	0	O	O	O	18
19	W	W	W	0	435	848	1050 E	0	0	W	W	W	19
20				0	579	790	900 E	0	0				20
21				500	616	752	820	0	0				21
22				450	735	762	735	0	0				22
23				350	851	754	635	0	0				23
24				150	1130	780	662	0 E	0				24
25				250	1114	782	610	50 E	0				25
26				239	2586	776	610 E	70	0				26
27				697	3204	771	600 E	170	0				27
28				1275	3217	770	600	190	0				28
29				1449		700	530	150	0				29
30				1578		734	561	150 E	0				30
31				1629		727		150 E					31
MEAN				276	1120	1234	859 E	130 E	90				MEAN
MAX				1629	3217	2935	1325	540	295				MAX.
MIN				0	435	700	202	0	0				MIN
AC FT				16992	62216	75882	51108 E	7984E	5336				AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
303											219500

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1969		KERN RIVER INFLOW TO TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0	600 E	2200 E	1500	25 E	20			1
2					0	900 E	2200 E	1500	0	0			2
3					0	960 E	2200 E	1500 E	0	0			3
4					0	1060 E	2200 E	1500 E	0	0			4
5					0	1110 E	2300 E	700	0	0			5
6					0	1120 E	2400 E	1600	25	0			6
7					0	850 E	2400	2200	150 E	0			7
8					0	870 E	2400	2100	200	0			8
9					0	920 E	2500	2175	200	0			9
10					0	890 E	2300	2000 E	200	0			10
11					0	850 E	2600	1900 E	200	0			11
12	N	N	N	N	0	840 E	2600 E	1780	200	0	N	N	12
13	O	O	O	O	0	790 E	2600 E	1600 E	200	0	O	O	13
14					0	830 E	2600	1650	200 E	0			14
15					0	1000 E	2600	1600	190 E	0			15
16	F	F	F	F	0	1150 E	2600	1670	180	0	F	F	16
17	L	L	L	L	0	1240 E	2200	1500 E	180	0	L	L	17
18	O	O	O	O	0	1360 E	2200	1450 E	180	0	O	O	18
19	W	W	W	W	0	1500 E	2100 E	1400	180	0	W	W	19
20					0	1670 E	2100 E	1220	180	0			20
21					0	1780 E	2000	955	40	0			21
22					0	1870 E	2000	600	40 E	0			22
23					0	1920 E	2000	400	40 E	0			23
24					0	2010 E	1600	250 E	40	0			24
25					0	2090 E	1300	150 E	40	0			25
26					0	2070 E	1300 E	75	40	0			26
27					0	2110 E	1300 E	50	40	0			27
28					200	2170 E	1300	50	40 E	0			28
29						2150 E	1500	50	30 E	0			29
30						2100 E	1500	50 E	20	0			30
31						2120 E		25 E		0			31
MEAN					7.1	1384 E	2103 E	1135 E	102	0.6			MEAN
MAX					200	2170 E	2600	2200	200	20			MAX.
MIN					0	600 E	1300	25 E	0	0			MIN
AC FT					397	85091E	125157E	6981 E	6069E	40			AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
396											286600

TABLE B-6

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Ash Slough at Eastside Bypass (a)(b)	San Joaquin River via Eastside Bypass	SE¼, Sec 22, T10S, R14E	1-20-69	1.33	785
			1-22-69	1.49	1086
			1-26-69	1.59	1210
			2-26-69	2.68	2264
Bear Creek at Eastside Bypass (c)	San Joaquin River via Eastside Bypass	NW¼, Sec 12, T 8S, R11E	1-26-69	89.92	1998
Berenda Slough (Rd. 9) at Eastside Bypass (c)	San Joaquin River via Eastside Bypass	SW¼, Sec 6, T11S, R15E	1-20-69	151.60	1592
			1-22-69	152.16	2180
			1-26-69	151.67	1660
			2-26-69	152.02	1965
California Aqueduct at McCabe Road Bridge			10-29-68		2449
			10-29-68		2469
Chowchilla Bypass (Ave. 14) above Fresno River (c)	San Joaquin River	NE¼, Sec 29, T11S, R15E	2-25-69	8.6	7301
Chowchilla Bypass below San Joaquin River (Floatwell #4)(a)(b)	San Joaquin River	NE¼, Sec 25, T13S, R15E	1-24-69	165.27	614
			1-24-69	166.02	992
			1-26-69	169.09	3624
			1-27-69	170.22	4323
			1-29-69	169.40	3573
			1-30-69	171.40	6138
			2- 3-69	171.07	5519
			2-20-69	170.70	5403
			2-24-69	170.68	5727
			2-25-69	171.56	7182
			3- 4-69	171.32	6481
			3-11-69	171.36	6969
			3-19-69	171.31	6828
			3-27-69	171.36	7046
			4- 1-69	170.38	5474
			4- 9-69	170.22	5115
			4-16-69	169.16	3802
			4-24-69	167.71	2388
			4-29-69	167.31	2231
			5- 2-69	170.35	5922
			5- 9-69	170.13	5570
			5-15-69	170.54	5795
			5-22-69	170.64	5815
			5-27-69	170.48	5324
			5-29-69	170.73	6228
			6- 5-69	171.44	7485
			6- 6-69	171.85	8505
			6- 9-69	172.19	9216
			6-17-69	170.78	5983
			6-23-69	169.73	4143
			6-27-69	166.14	956
			7- 3-69	165.42	750
Deer Creek	Tulare Lake	Trenton Weir (Rd. 176)	1-23-69		132
		Friant-Kern Canal (Rd 208)	1-23-69		143
		Road 192	1-28-69		439
		Road 192	1-29-69		301
		Road 192	1-30-69		172
		Road 192	1-31-69		135
		Road 192	2- 3-69		104
		Road 192	2- 7-69		381
		Trenton Weir	2-14-69		147
		Road 192	2-19-69		375
		Road 192	2-25-69		4482
		Road 192	2-26-69		3334
		Road 192	3- 1-69		663
		Road 192	3- 6-69		263
		Road 192	3-11-69		211
		Trenton Weir	3-17-69		180
		Road 192	3-19-69		215
		Road 192	3-21-69		264
		Road 192	3-27-69		231
		Road 192	4-10-69		232
		Road 192	4-16-69		189
		Trenton Weir	4-23-69		160

TABLE B-6 (Cont.)

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Deer Creek (Cont.)	Tulare Lake	Trenton Weir	4-29-69		114
		Trenton Weir	5- 7-69		77
		Trenton Weir	5-14-69		76
		Trenton Weir	5-28-69		76
		Friant-Kern Canal	6- 4-69		112
		Friant-Kern Canal	6-11-69		117
		Trenton Weir	6-11-69		98
		Friant-Kern Canal	6-18-69		134
		Trenton Weir	6-18-69		127
		Trenton Weir	7- 2-69		151
		Trenton Weir	7-16-69		126
		Trenton Weir	7-21-69		109
		Trenton Weir	7-23-69		139
		Trenton Weir	7-30-69		136
		Trenton Weir	8-14-69		119
		Trenton Weir	8-27-69		127
Eastside Bypass at Washington Road (c)	San Joaquin River	NW¼, Sec 33, T9S, R13E	1-31-69		6623
Eastside Bypass (Road 9) below Fresno River (c)	San Joaquin River	NW¼, Sec 18, T11S, R15E	1-20-69	148.60	1540
			1-22-69	148.80	2204
			1-27-69	150.62	6294
			2-25-69	152.20	9204
Owens Creek at Eastside Bypass (c)	San Joaquin River via Eastside Bypass	SW¼, Sec 19, T8S, R12E	1-22-69		1620
			2-26-69	94.66	1158
San Joaquin River below Chowchilla Bypass (Floatwell #3) (a)(b)	San Joaquin River	NE¼, Sec 25, T13S, R15E	1-29-69	168.03	1216
			1-30-69	168.36	1452
			2- 3-69	169.25	2116
			2-20-69	168.69	1594
			3- 3-69	167.67	1011
			3-11-69	167.78	1023
			3-19-69	167.75	1022
			3-27-69	167.74	976
			4- 1-69	166.88	576
			4- 9-69	166.81	562
			4-16-69	166.77	532
			4-24-69	166.73	549
			4-29-69	167.54	1007
			5- 9-69	168.59	1774
			5-15-69	168.54	1695
			5-22-69	168.56	1670
			5-27-69	168.61	1785
			5-29-69	168.59	1655
			6- 5-69	169.66	2555
			6- 6-69	169.78	2666
			6- 9-69	169.82	2681
			6-17-69	169.88	2725
			6-23-69	167.74	1112
			6-27-69	167.79	1108
			7- 3-69	167.74	1108
			7-11-69	167.67	1092
			7-23-69	165.79	208
San Joaquin River below Sand Slough (c)	San Joaquin River	NE¼, Sec 31, T9S, R13E	2-26-69	101.74	276

(a) Recording gage.
(b) Daily mean discharges are available.
(c) Staff gage only.

TABLE B-7

DIVERSIONS

Monthly and annual acre-feet of water diverted are shown in this Table for the San Joaquin, Stanislaus, Tuolumne, Merced, and Tule Rivers, and Dry Creek, a tributary to the Tuolumne River, for the 1969 water year. Diversion points which divert less than 200 acre-feet annually based on a three-year average are discontinued from the program. This allows for collection and publication of approximately 95 percent of the water diverted for use by measuring and collection of record on about 50 percent of the total diversion points.

Monthly diversion values have been rounded off as follows:

1. Individual diversions - acre-feet

0.0	- 999	nearest	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Total monthly diversion - cubic feet per second

   All values to nearest unit.

3. Monthly use in percent

   All values to nearest tenth.

Data received from outside agencies are published as received and are not necessarily rounded to the criteria used by the Department of Water Resources.

[illegible]

[illegible] SAN [illegible]QUIN [illegible]
[illegible] Freeman Ford [illegible]
[illegible] 1968 through September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT. ACRE-FEET
			OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEPT.	
[illegible]---	[illegible]														
--[illegible] AQUIN RIVER [illegible]	[illegible]														
M[illegible] Brothers	18.9R	1-14 -24								296	112	328	166		902
[illegible]ze. [illegible] Gillmeister	9.4R	1-20												37	37
--STANISLAUS RIVER--	79.7R														
Faith Ranch	19.8R	1-16	66	17								55	178	140	456
W. C. Blewett Estate	80.7L	1-12						NO DIVERSION							
W. C. Blewett Estate	81.8L	2-12 1-14							89	738	735	915	698	523	3698
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85														
Blewett Mutual Water Company	81.95L	1-10 2-12 1-14	26						579	1390	618	979	1010	322	4926
El Solyo Water District	82.[illegible] L	1-1[illegible] 1-16 3-16	34					16	1230	2440	1360	2850	2240	987	11300
--HETCH HETCHY AQUEDUCT CROSSING--	82.65														
El Solyo Ranch	82.9 L	1-16						NO DIVERSION							
El Solyo Ranch	83.5 L	1-12	11												11
El Solyo Ranch	83.7 L	1-12	10												10
Faith Ranch	84.4 R	1-16 1-20	465	4								268	1060	709	2506
--GAGING STATION - SAN JOAQUIN RIVER AT CALDWELL--	90.95														
--TUOLUMNE RIVER--	91.0 R														
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L														
West Stanislaus Irrigation District	91.8 L	1-12 1-24 6-26	1955	265	54			79	6680	12660	13590	16020	11760	5210	68370
Fred Lara #1 *	(0.6S)	1-14				1				[illegible]	108	169		175	454
E. E. Hagemann Ranch #1 *	(0.7N)	3-16							477	259	341	404	453	170	2104
E. E. Hagemann Ranch #2 *	(1.1N)	1-14 1-16	42						281	275	480	382	434	213	2107
Fred Lara #2 *	(2.2S)	1-16									7	3	22	2	34
E. E. Hagemann Ranch #3 *	(2.3N)	2-16							189	334	157	292	199		1171
John and Robert Bogetti	92.1 R	[illegible]											12	183	195
John and Robert Bogetti	93.1 [illegible]	[illegible] 1-12 1-14											478	56	534
George Covert	94.1 L	1- 3 1- 6						NO DIVERSION							
Ranch[illegible] Dos Rios	94.7 R	1-12	63	2	1[illegible]	5			12	[illegible]	29	116	322	150	750
[illegible]. L. Brazil	95.5 R	1-16	76										63	169	308
Island Dairy	96.0 L	1-18		[illegible]		3				10	10	78	560	309	973
--LAIRD SL[illegible]GH BRIDGE--	96.[illegible]														
Ran[illegible]o El Pescadero	98.9 L	1-18						NO DIVERSION							
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4 L														
Patters[illegible] Water District	104.4 L	1-14 2-18 1-2[illegible] 1-36							2300	8060	8050	9060	[illegible]	3100	38270
[illegible]ase Brothers	104.[illegible]	1-18	83							203	94	332	414	252	1378
--PATTERSON BRIDGE--	104.[illegible]														
[illegible]ase Brothers	106.[illegible]	1-12								3	2[illegible]	22	362	119	526
[illegible] McNeill	[illegible]	1-12	[illegible]							22	44	2[illegible]	[illegible]	42	199
Twi[illegible] Irrigation [illegible]can,	[illegible]	1-12 1-16 1-18 1-2[illegible]								1[illegible]4	353	827	918	50[illegible]	a 2777
[illegible]. [illegible] Henderson	[illegible] R	1-[illegible]	63												63
[illegible]	[illegible]	1-[illegible]	18							92	[illegible]	226	181	1[illegible]4	[illegible]
[illegible]. [illegible]. Le[illegible]	[illegible]	1-12	2[illegible]	4		3[illegible]			27	76	[illegible]	88	[illegible]02	[illegible]	506

TABLE [illegible] (Cont.)

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge
October 1968 through September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT.	NOV	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT	
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	[illegible].4														
D. R. Lemos	114.63R	[illegible] - 8						NO DIVERSION							
Arnold and Ben Souza	114.75R	2-1[illegible]	86	3						44	[illegible]	[illegible]2	280	[illegible]	[illegible]
--ORESTIMBA CREEK--	115.2 L														
Roy F. Crow	115.8 L	[illegible]-10	12							191	[illegible]	247	123	[illegible]	[illegible]12
L. B. Crow	116.05L	[illegible]14	25						65	[illegible]7	[illegible]9	168	178	116	816
John W. Greer	116.15R	1- 8	35										64	45	148
John W. Greer	116.5 R	1-12									[illegible]5	164	[illegible]		426
Manuel A. Serpa	121.3 R	1-10 [illegible]-18	42						46	14	64	244	501	[illegible]	[illegible]
--MERCED RIVER SLOUGH--	122.2 R														
Stevinson Corporation	122.6 L	1-16						NO DIVERSION							
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1 R	1-16	41									56	[illegible]	[illegible]	[illegible]
--GAGING STATION-- SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
VERNALIS TO FREMONT FORD BRIDGE															
Total			[illegible]96	298	[illegible]5	46	0	[illegible]3B	11980	27440	26550	3441[illegible]	[illegible]	14460	1495[illegible]
Average cubic feet per second			52	5	1	1	[illegible]	5	201	446	446	560	499	243	207
Monthly use in percent of seasonal			2.1	0.2	0	0	0	0.2	8.0	18.4	17.8	23.0	[illegible]	9.7	

* West Stanislaus Irrigation District Canal Intake Canal joins the San Joaquin River at mile 91.8L. Distance from the river and bank location of diversion are shown in parentheses.

a Includes an undetermined amount of water returned to river by spill.

[illegible]

[illegible] - SAN [illegible]
[illegible] Bridge [illegible] Gravity [illegible]
October 1968 [illegible] September [illegible]

WATER USER	MILE AND BANK [illegible]	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT.	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	[illegible]														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON--	[illegible]														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	[illegible]														
San Luis Canal Company	186.6L	Gravity	617	3426	1652			[illegible]23	[illegible]74	27644	2[illegible]447	3[illegible]48	[illegible]7.2	1[illegible]	[illegible]
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--															
--MENDOTA DAM--	208.6														
Central California Irrigation District	208.8 L	Gravity	21947	4963	[illegible]			1,240	49[illegible]	8[illegible]	88538	94915	76723	47524	a 483760
--FRESNO SLOUGH--	c 209.0 L														
--DELTA-MENDOTA CANAL--	[illegible]														
Firebaugh Canal Company	b [illegible].4L		1833	85	138		3[illegible]9	[illegible]	[illegible]795	14747	[illegible]4527	11857	56[illegible]	4358	[illegible] 6[illegible]216
W. L. Dudley	b [illegible].4L		135						26	311	12[illegible]	4[illegible]	218	2[illegible]	1238
State of California Mendota Waterfowl Management	b [illegible]6.45-8.2[illegible]		512	1999	865				[illegible]	[illegible]54	2[illegible]43	2142	38[illegible]2	[illegible]	24[illegible]8
Fresno Slough Water District	b [illegible]8.2[illegible]-17.50[illegible]								29.	32.	44[illegible]	54.	62[illegible]	[illegible]	2341
--JAMES BYPASS--	[illegible]11.80R														
Traction Ranch	d [illegible].75		28					20[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1248	40[illegible]	[illegible]966
Reclamation District 1606	d [illegible].50							N[illegible] Diversions							
James Irrigation District	d [illegible]4.4											8[illegible]	6992	2464	[illegible]295
Tranquillity Irrigation District	12.00-13.75		[illegible]					649	3[illegible]1	2243	4713	5320	46[illegible]3	952	21648
Melvin D. Hughes	b [illegible]12.27								2.		2[illegible]	16	24		82
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company	219.8 R		30[illegible]	[illegible]	68		13[illegible]	1926	6304	7969	8376	8489	9096	6[illegible]	3938
State Center Land Company		f 1-6	252	155	48									6[illegible]	52
W. Beck		g 1-8	[illegible]	6											26
Tulle Gun Club		h 1-8						N[illegible] Diversion							
Westlands Water District			[illegible]14	377	188	[illegible]	222	206	[illegible]230	[illegible]2[illegible]6	[illegible]2[illegible]	3[illegible]2	27[illegible]	[illegible]	[illegible]126
Grasslands			21132	5444										9,23	[illegible]699
J. W. Wilson									85	4	1[illegible]3	[illegible]	84		339
Laguna Water District											1[illegible]	1[illegible]	[illegible]	[illegible]	4[illegible]
Pacheco Water District										800	[illegible]	1[illegible]	1706	294	[illegible]
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.8L														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			[illegible]	[illegible]	[illegible]	[illegible]6	[illegible]4	[illegible]	[illegible]42[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]9
Average cubic feet per second			[illegible]	293		2	3	[illegible]	[illegible]43[illegible]	[illegible]439	[illegible]	[illegible]	[illegible]	1611	12.
Monthly use in percent of seasonal			[illegible]	2.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.6	6.8	[illegible]	[illegible]	[illegible]	[illegible]	

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities and include operational spill. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
b Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0L. Distance from the San Joaquin River and bank of slough in which diversion is located are shown in parentheses.
c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
d Plant is located on James Bypass which diverts from Fresno Slough at mile [illegible]. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
e Includes deliveries to Quintr property under transfer to Westlands Water District
f One 6-inch pump located on arm of slough at SW corner [illegible] T. 14 S., R. 15 E.
g One 8-inch pump located on arm of slough 14[illegible] feet S. of NE corner S. 24 T. 14 S., R. 15 E.
h One 8-inch pump located on arm of slough adjacent to W. Beck.
i Does not include water pumped into San Luis Canal via Adams [illegible] Line (Lateral 7) from Mendota Pool: April 2686 acre-feet May 3 [illegible] acre-feet, and June 5[illegible]2 acre-feet.
j Does not include transferred water delivered to Quintr property by Tranquillity Irrigation District and deliveries under separate agreements by Pacheco Water District and San Luis Water District.

TABLE [illegible] (cont.)

[illegible] - SAN JOAQUIN RIVER
[illegible] Friant [illegible]
[illegible] September [illegible]

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC.	JAN	FEB	MAR.	APR	MAY	JUNE	JULY	AUG	SEPT	
[illegible]	[illegible] 3R	2- [illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	224	[illegible]	[illegible]	[illegible]	1641
[illegible]	[illegible] 3L	1- [illegible]	44	[illegible]					[illegible]	[illegible]	41	134	[illegible]	[illegible]	[illegible]
--SKAGGS BRIDGE--	[illegible] 26														
-- [illegible] S. HIGHWAY [illegible] BRIDGE--	24[illegible].28														
--SANTA FE RAILROAD BRIDGE--	24[illegible].3														
Miller Brothers	2[illegible].46L	[illegible]							4[illegible]	[illegible]4	2[illegible]	78	45	33	[illegible]4
Sycamore Island Stock Ranch [illegible]	2[illegible].34R	1- [illegible]								43	[illegible]	38	29	[illegible]	189
Oscar Spano River Ranch 4 [illegible]	256.38L	1- [illegible]	[illegible]						32	51					101
Sycamore Island Stock Ranch 2	256. 2[illegible]	1-								36	43	36	4[illegible]	34	194
Oscar Spano River Ranch 1	2[illegible].10L	1-1[illegible]	34							126	142	212	392	322	1228
Oscar Spano River Ranch 2	2[illegible].70L	1-1[illegible]	[illegible]2						69	71	69	81	131	164	637
James Sims	2[illegible].8[illegible]	1- 6 1- [illegible]	[illegible]								44	113	95	21	276
--STATE HIGHWAY 41 BRIDGE--	2[illegible].[illegible]														
W. E. Roberts [illegible]	2[illegible]8.90L	1-12	120	[illegible]	[illegible]			2	[illegible]9	165	146	1[illegible]	21[illegible]	[illegible]78	11[illegible]
J. E. Cobb	2[illegible]9.39[illegible]	2- 6	1						5	[illegible]	46	[illegible]	82	[illegible]	243
--OLD LANES BRIDGE--	2[illegible]9.[illegible]8														
[illegible] E. Cobb 3	26[illegible].40R	1- 6	44						53	80	103	1[illegible]9	94	91	[illegible]74
[illegible] C. Arnold	261.53R	1- 4 1- 5	3[illegible]	26					32	58	81	1[illegible]3	101	6[illegible]	[illegible]5
Duane M. Folsom	261.[illegible]0L	1- 6								13	33	45	24	14	129
E. G. Rank, Jr.	262.32L	1- [illegible]	[illegible]						12	32	50	75	93	26	293
E. G. Rank, Jr. #2 b	262.34L	1- 6	4						12	32	41	62	70		221
[illegible]. K. Jensen	263.76R	1- [illegible]	22						4	30	37	55	54	[illegible]	262
W. F. Ball 2	264.04[illegible]	1- 6	22	8				16	15	30	20				111
Ike D. Ball	264.60R	1- 6	43							55	114	132	10[illegible]	86	53[illegible]
W. F. Ball	264.83L	1- 4 1- 5	40				1	1	2[illegible]	80	62	80	79	74	444
Virgil Durand	26[illegible].56[illegible]	1- 6	4	3				[illegible]	4	44	113	182	173	[illegible]	6[illegible]0
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
GRAVELLY FORD TO FRIANT DAM															
Total			649	253	36	[illegible]	[illegible]	26	488	1183	1508	2136	2257	1578	10115
Average cubic feet per second			11	4	1	[illegible]	[illegible]	0	8	19	25	35	37	2[illegible]	14
Monthly use in percent of seasonal			6.4	2.5	0.4	[illegible]	[illegible]	0.3	4.8	11.7	14.9	21.1	22.3	15.6	

a Station deactivated at end of May.
b New installation in 1968.

TABLE B- [illegible] cont.

DIVERSIONS - STANISLAUS RIVER
[illegible]ober 1968 through September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV.	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Moresco Brothers	1.9 R	1-16						NO DIVERSION							
C. C. Angyal a	2.4 R	1-18	131	26						104		[illegible]	[illegible]	292	b [illegible]
Fait[illegible] Ranch	[illegible].4 L	2-12 -16	369						16	33	6	264	[illegible]	33[illegible]	1434
Reclamation District 2064	4.[illegible] R	1-14 1-16 2-20	222					6[illegible]	[illegible]30	1290	1[illegible]6	243[illegible]	2[illegible]9	13[illegible]	1316[illegible]
Reclamation District 2075	4.[illegible]5R	2-16 1-2[illegible]	623	45		1[illegible]			23[illegible]	341[illegible]	28[illegible]6	2596	290[illegible]	229[illegible]	[illegible]
D. F. Koetitz	4.7 L	1-20							13	153	82	125	66	1[illegible]4	543
E. T. Mape	4.75L	1-2[illegible]								408	536	462	266	8	1684
Henry Pelucca	5.5 L	1-16	1		1				22	9[illegible]	1[illegible]	84	1[illegible]8	53	3[illegible]3
Bernard Wend c	6.4 L	1-14	6						133	96	99	225	211	62	b 83[illegible]
D. J. Macedo	8.4 R	1-16	18[illegible]						19[illegible]	167	99	416	363	328	175[illegible]
N. E. Cannon	[illegible].7 R	1-10	22						109	342	248	236	244	144	1343
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.35L														
D. F. Koetitz	9.4 L	1-12							215	249	243	283	135	[illegible]	12[illegible]2
John L. Hertle	9.8 L	1-10								19	12	21	42	22	116
Joe Lourence	10.0 R	1-16	12[illegible]									88	219	183	61[illegible]
Joe Lourence	10.5 R	1-16										5	80	[illegible]4	159
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7 L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.[illegible]														
--U. S. HIGHWAY 99 BRIDGE--	15.[illegible]														
A. Girardi	17.7 L	1-16								91	227	289	169	81	85[illegible]
Estate of Robert Paul Barton and Alice Lee Barton	19.0 R	1-14	1						108	93	[illegible]5	161	126	48	612
Libby, McNeill and Libby	[illegible].9 R	1-14							53	398	242	3[illegible]2	293	15[illegible]	1506
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
--SANTA FE RAILROAD BRIDGE--	33.4														
Oakdale Irrigation District (Crawford Pump)	d 3[illegible].7 L	1-14						19	36	44	190	174	147		c 612
Oakdale Irrigation District (Brady Pump)	d 39.1 L	1-12	5					5	278	217	151	222	131	4	1[illegible]1[illegible]
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2														
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.[illegible]														
--KNIGHTS FERRY BRIDGE--	54.5														
STANISLAUS RIVER															
Total			168[illegible]	[illegible]1	1	1[illegible]	[illegible]	84	45[illegible]5	[illegible]99	[illegible]	8825	845[illegible]	55[illegible]	43270
Average cubic feet per second			27	1	0	0	1	1	[illegible]	117	114	144	138	91	6[illegible]
Monthly use in percent of seasonal			3.[illegible]	2.2	[illegible]	[illegible]	0	0.2	10.6	16.6	15.[illegible]	20.4	[illegible]9.6	12.8	

a Previously listed as [illegible]. Angyal.
b Includes an undetermined amount of water returned to river by spill.
c Formerly listed as Alice Gill.

d Oakdale Irrigation District for season of 1969 maintained plants at Miles 37.7L and 39.1L to supplement district gravity supply.

TABLE B- (Cont.)

DIVERSIONS - TUOLUMNE RIVER
October 1968 thru September 196[illegible]

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT.-SEPT ACRE-FEET
			OCT.	NOV	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG	SEPT	
E. T. Mape	1.3 R	2-14	362							24	[illegible]	449	42	[illegible]	[illegible]
John and Robert Bogetti	1.9 [illegible]	3-12											1[illegible]	61	4[illegible]
John and Robert Bogetti	2.9 L	1-10 1-12										439	12[illegible]	42[illegible]	[illegible]
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	5.0 R	1-10								18	4	19	39	24	104
Della Battestin	5.9 L	1-16						NO DIVERSION							
Western Farms	6.3 L	1-16										96	52	66	234
Eugene Boone, Galen Hartwich, and Ted Gonzales	7.1 R	1-10								36	3[illegible]	2[illegible]	58	3[illegible]	19[illegible]
Elmer Hyer	8.4 R	1-10	13						20	16	36	31	45	41	202
James A. McCleskey	9.4 L	1-16	91	1		2				463	493	250	471	55	1826
James A. McCleskey	9.7 R	1-16	198							173	74	110	192	122	86[illegible]
Homer Couchman	10.2 R	1-14	19						6	128	79	137	184	71	624
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREEWAY BRIDGE--	15.55														
--SEVENTH STREET BRIDGE--	15.75														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.05														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05														
--DRY CREEK--	16.5 R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	20.3 R	1-10	26						18	59	62	67	70	69	371
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.65														
--GEER AVENUE BRIDGE--	26.0														
Michel Investment Company	28.8 R	1- 8	20						17	80	78	114	5[illegible]	23	[illegible]
Firpo Ranch	30.2 L	1-10	3		1	4			82	88	53	35	40	21	32[illegible]
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.55														
Iva M. Ketcham	39.4 R	1- 8	19							497	451	164	140	92	1[illegible]
Westley N. Sawyer	39.8 L	1- 8	9						19	96	91	90	7[illegible]	6[illegible]	44[illegible]
--ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	40.8 L	1-14	21							88	69	114	82	30	404
Curtner Zanker	45.7 L	1-10	21							73	100	96	72	49	411
Dolling Brothers	46.3 R	1- 8	79	6					17	85	5[illegible]	91	104	86	52[illegible]
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
TUOLUMNE RIVER															
Total			871	7	1	6	[illegible]	[illegible]	[illegible]9	2424	1995	[illegible]	2522	2249	126[illegible]
Average cubic feet per second			14	0	0	0	[illegible]	[illegible]	[illegible]	39	34	[illegible]	41	38	1
Monthly use in percent of seasonal			6.9	0.1	0	0	[illegible]	[illegible]	1.4	19.2	1[illegible].8	18.8	20.[illegible]	17.8	

TABLE B-7 (Cont.)

DIVERSIONS - DRY CREEK
October 1968 through September 1969

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.	
--[illegible]-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	[illegible].7														
--STATE HIGHWAY 132 BRIDGE YOSEMITE BOULEVARD --	[illegible].8														
--LA LOMA BRIDGE--	[illegible].2														
--EL VISTA AVENUE BRIDGE--	[illegible]														
--GAGING STATION - DRY CREEK NEAR MODESTO--	[illegible].4 L														
--CLAUS ROAD BRIDGE--	[illegible].4														
--SANTA FE RAILROAD BRIDGE--	[illegible].4														
--CHURCH STREET BRIDGE--	[illegible].2														
--WELLSFORD ROAD BRIDGE--	[illegible].7														
--ALBERS ROAD BRIDGE--	11.0														
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
Edward Johnson	12.6 R	1- 6								37	25	39	31		132
Edward Johnson	12.7 R	1- 6								118		178	176	2	474
Joe Fagundes	14.7 R	1-10	52	8					28	99	107	113	120	112	639
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK															
Total			52	8	[illegible]	[illegible]	[illegible]	[illegible]	28	254	132	330	327	114	1245
Average cubic feet per second			1	0	0	[illegible]	0	0	0	4	2	5	5	2	2
Monthly use in percent of seasonal			4.2	0.6	0	[illegible]	0	0	2.2	20.4	10.6	26.5	26.3	9.2	

TABLE [illegible] (Cont.)

[illegible]

WATER USER	MILE AND BANK [illegible]	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE-FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--HILLS FERRY BRIDGE--	1.1														
Stevinson Water District	1.7 R	1-2[illegible]										[illegible]			
Stevinson Water District	3.3 L	1-2[illegible]	224						[illegible]			[illegible]	4[illegible]	94	[illegible]
Stevinson Water District	3.8 R	1-18	111						[illegible]	1[illegible]	1[illegible]	14	40[illegible]	194	.42[illegible]
[illegible] E. Thomas a	4.3 L	1-16							24	29	9	14	38	9	[illegible]
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6														
Maria DeAngelis	.8 L	1-12								41		[illegible]	[illegible]	1	2[illegible]
Stevinson Water District	6.1 L	1-2[illegible]	48						16	22[illegible]	[illegible]	402	496	2[illegible]	[illegible]
Stevinson Water District	7.7 L	1-20							[illegible]	34	[illegible]	19[illegible]	29[illegible]	1[illegible]	[illegible]
Manuel Clemintino	8.5 L	1-12							1[illegible]	1	51		124	63	256
Manuel Clemintino	8.9 L	1-12						1[illegible]	[illegible]	9	122	[illegible]	149	37	4[illegible]
Samuel B. McCullagh	9.4 L	1- 8						46	44	32	2[illegible]2	1[illegible]	242	274	[illegible]
Mrs. J. R. Jacinto	9.6 L	1-12								64	21	61	8[illegible]	4[illegible]	[illegible]
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alvea and A. Mattos	10.35L	1-10	17	14[illegible]	194			18	34	180	[illegible]6	212	12[illegible]	79	1374
Manuel Freitas	10.9 L	1-12							8	29	116	148	2[illegible]3	8[illegible]	6[illegible]6
R. E. Prusso and John Vierra	10.9 L	1- 8 1-12							114	39	85	81	108	5[illegible]	484
E. and J. Gallo Winery Ranch	11.6 L	1-18		56	275			40	94	43	526	222	232	21	1[illegible]
--MILLIKEN BRIDGE--	11.65														
Anthony L. Calderia	12.5 R	1-12						NO DIVERSION							
E. and J. Gallo Winery Ranch	12.85L	1-12		12	174			9	1[illegible]	21	173	172	[illegible]		68[illegible]
J. M. Souza	14.5 L	1-10						NO DIVERSION							
E. and J. Gallo Winery Ranch	16.5 L	1-14							15	2	12	[illegible]1			[illegible]
J. E. Gallo	20.4 L	1- 8		7	51			30	38	40	[illegible]7	111	106		468
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05														
Gallo Cattle Company	22.2 R	1- 8 1-16						65	199	75	[illegible]3	229	[illegible]	[illegible]	[illegible]
Gallo Cattle Company	22.8 R	1-10 b							45	6[illegible]	92	12[illegible]	[illegible]3	60	43[illegible]
Merced River Farms Association	26.3 R	1- 8	3						37	27	54	46	44	1[illegible]	[illegible]
--SANTA FE RAILROAD BRIDGE--	27.05														
W. C. Magneson	27.5 R	1-12	66								122	1	[illegible]	114	[illegible]
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55														
--CRESSEY BRIDGE--	27.55														
Manuel Silva	29.9 R	1- 6 1-10							8	60	32	3[illegible]	2[illegible]	[illegible]	1[illegible]
Manuel Silva	30.95R	1-12							49	118	84	96	[illegible]8		4[illegible]
Rancho Con Valor	31.1 L	1- 8 1-12							7	19	62	5[illegible]	81	[illegible]	264
Manuel Silva	31.4 R	1-10								6	66	30	[illegible]	[illegible]9	239
P. Hilarides	32.2 L	1-12	3									6	[illegible]		[illegible]
--SHAFFER BRIDGE--	32.5														
Harry P. Schmidt and Sons	33.1 R	1-10								52	58	4	[illegible]	4	[illegible]
W. F. Bettencourt, P. Hilarides, and Cowel Lime and Cement Co.	36.9 L	Gravity	681	126	171	21	33	65	224	16[illegible]	[illegible]1	[illegible]	1[illegible]90	[illegible]	[illegible]
Amsterdam Orchards Incorporated	39.1 L	1-14		3	1				143			38	8		1[illegible]
Ratzlaff Brothers	40.2 L	1- 2 1- 4						1	1	26	49	[illegible]	59	[illegible]	218
--COX FERRY BRIDGE--	42.1														
Cowel Ditch	45.3 R	Gravity	138[illegible]	[illegible]	123[illegible]	298	394	240	218	3[illegible]	2[illegible]	562[illegible]	31[illegible]	[illegible]	[illegible]
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
Jorgenson Ditch	46.3 R	Gravity	111[illegible]	2[illegible]	241	245	360	300	275	12[illegible]	1340	944	1443	[illegible]	91[illegible]
--SNELLING BRIDGE--	46.4														
Cook and Dale Ditch	47.0 R	Gravity	393	1[illegible]	6	4	62	1	41	127	[illegible]6	376	618	[illegible]1	[illegible]
Ruddle Ditch	47.9 R	Gravity	2420	1870	1470	1520	947	162	1[illegible]	1630	1830	2[illegible]	3120	2720	2440
Canevaro Ditch	50.0 R	Gravity	2[illegible]	82	61	[illegible]	[illegible]9	13	122	698	126[illegible]	841	[illegible]9	6[illegible]6	4[illegible]
MERCED RIVER															
Total			6[illegible]1	2[illegible]51	3[illegible]4	216	[illegible]	2[illegible]81	[illegible]	[illegible]	1192	12[illegible]	[illegible]	[illegible]	[illegible]
Average cubic feet per second			1.9	4[illegible]	6[illegible]	3	[illegible]	42	[illegible]	[illegible]	2[illegible]	[illegible]	22[illegible]	[illegible]	[illegible]
Monthly use in percent of seasonal			8.4	[illegible]	4[illegible]	2[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	14.[illegible]	[illegible]	[illegible]	[illegible]	

a Formerly listed as Milton [illegible]ordon.
b Replaces a 12 and a 15" unit.

[illegible] at [illegible] water [illegible]
[illegible]1.

TABLE B-7 (cont.)

DIVERSIONS - TULE RIVER
October 1968 through September 1969

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT ACRE-FEET
			OCT.	NOV	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT	
--[illegible] DAM--	0.0														
--GAGING STATION - [illegible] BELOW SUCCESS DAM-	0.35														
Campbell Moreland Ditch	2.4 L	Gravity	403	143	61	698			129	545	478	1000	972	910	5339
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	a (2.4)														
--PIONEER SPILL--	a (3.7R)														
Porter Slough Ditch	a (4.5R)	Gravity					13		25	279	470	470	335	246	1838
--NEWCOMB AVENUE BRIDGE--	a (6.1)														
Vandalia Ditch	3.1 L	Gravity	74		113	222	164	234	206	25		189	281	270	1783
--SANTA FE RAILROAD BRIDGE--	5.1														
Poplar Ditch	5.8 L	Gravity	19		3907	2430	2219	1963	4154	5902	5887	5692	5254	2123	39570
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Hubbs-Miner Ditch	6.4 R	Gravity							54	212	326	536	429	230	1787
--STATE HIGHWAY 65 BRIDGE--	6.6														
Rhodes-Fine Ditch	8.4 L	Gravity					NO DIVERSION - DITCH DESTROYED								
--OLIVE AVENUE BRIDGE--	9.9														
--FRIANT-KERN CANAL CROSSING--	10.5														
Woods-Central Ditch	11.0 L	Gravity			223	1625	3198	4675	5486	8257	7093				30557
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8														
--OTTLE BRIDGE--	14.4														
TULE RIVER															
Total			421	143	4304	4975	5594	6872	10054	15220	14354	7887	7271	3779	80874
Average cubic feet per second			7	2	70	81	101	112	169	248	241	128	118	64	112
Monthly use in percent of seasonal			0.5	0.2	5.3	6.2	6.9	8.5	12.4	18.8	17.7	9.8	9.0	4.7	

Records furnished by the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE 8-8

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1968 through September 1969

WATER USER	DIVERSION													ACREAGE IRRIGATED	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
Friant-Kern Canal				San Joaquin River[a]											
Total acre-feet diverted	17765	2015	2828	1250	21544	14364	52657	122842	159864	[illegible]	[illegible]	[illegible]	1062026	Not Available	
Average cubic feet per second	289	34	46	20	388	234	885	1997	2687	3860	4224	[illegible]	1492		
Monthly use in percent of seasonal	1.6	0.2	[illegible]	0.1	2.0	1.3	4.9	11.4	14.8	21.9	24.0	17.2			
Madera Canal															
Total acre-feet diverted	5244	[illegible]	0	0	16007	27128	24690	52951	68826	77768	75453	55866	403933	Not Available	
Average cubic feet per second	85	[illegible]	0	0	288	441	415	861	1157	1265	1227	939	558		
Monthly use in percent of seasonal	1.3	0	0	0	4.0	6.7	6.1	13.1	17.0	19.3	18.7	13.8			
Merced Irrigation District				Merced River											
Main Canal	7109	1309	1353	1016	1333	4233	39813	103654	104939	114180	1[illegible]9366	8194[illegible]	b 520247		
Northside Canal	498	137	95	30	0	0	1014	3777	3646	4209	4183	342[illegible]	21018		
Total acre-feet diverted	7607	1446	1448	1046	1333	4233	40827	107431	108585	118389	113549	853[illegible]	591265	c 99721	6575
Average cubic feet per second	124	24	24	17	24	69	686	1747	1825	1925	1847	1435	817		
Monthly use in percent of seasonal	1.3	0.2	0.2	0.2	0.2	0.7	6.9	18.2	18.4	20.0	19.2	14.[illegible]			
Turlock Irrigation District				Tuolumne River											
Total acre-feet diverted	42590	14260	6240	1020	70	5850	56570	100500	90090	105600	88170	8422[illegible]	d 595180	e 172999	
Average cubic feet per second	693	240	101	17	1	95	951	1634	1514	1717	1434	1415	822		
Monthly use in percent of seasonal	7.2	2.4	1.0	0.2	0	1.0	9.5	16.9	15.1	17.7	14.8	14.2			
Modesto Irrigation District															
Total acre-feet diverted	5098	22292	85	122	4	3	36453	60903	58158	62400	49273	46[illegible]	f 341291	g 68427	
Average cubic feet per second	83	375	1	2	0	0	613	990	977	1015	801	781	471		
Monthly use in percent of seasonal	1.5	6.5	0	0	0	0	10.7	17.9	17.1	18.3	14.4	13.[illegible]			
Waterford Irrigation District															
Total acre-feet diverted	1845	[illegible]	0	0	0	0	4613	7852	7911	8499	6678	479[illegible]	h 42190	i 7338	
Average cubic feet per second	30	0	0	0	0	0	78	128	133	138	109	81	58		
Monthly use in percent of seasonal	4.4	0	0	0	0	0	10.9	18.6	18.8	20.1	15.8	11.4			
Oakdale Irrigation District				Stanislaus River											
Northside Canal	5108	0	0	0	0	276	11374	23334	22366	23453	23389	17468	126785	j 19745	3963
Southside Canal	8284	0	0	0	0	319	17769	31565	31432	32947	32959	26332	181607	k 34224	599
Total acre-feet diverted	13392	0	0	0	0	595	29143	54899	53798	56400	56348	43817	308392	m 53969	4562
Average cubic feet per second	218	0	0	0	0	10	490	893	904	917	916	736	426		
Monthly use in percent of seasonal	4.3	0	0	0	0	0.2	9.5	17.8	17.4	18.3	18.3	14.2			
South San Joaquin Irrigation District															
Total acre-feet diverted	4215	0	4826	6926	0	0	25577	47006	47978	52431	52627	24621	266207	n 63593	257
Average cubic feet per second	69	0	78	113	0	0	430	764	806	853	856	414	368		
Monthly use in percent of seasonal	1.6	0	1.8	2.6	0	0	9.6	17.7	18.0	19.7	19.8	9.2			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.
b An additional 66,208 acre-feet of water was pumped from wells.
c Of this acreage, 1369 were double cropped. Does not include an undetermined amount of riparian water users acreage.
d An additional 170,57[illegible] acre-feet of water was pumped from wells.
e Of this acreage, 22,303 were double cropped.
f An additional 39,296 acre-feet of water was pumped from wells.
g Of this acreage, 6130 were double cropped.
h An additional 600 acre-feet of water was [illegible] from wells.
i Of this acreage, 0 were double cropped.
j Of this acreage, 383 were double cropped.
k Of this acreage, 408 were double cropped.
m This acreage also received 32,616 acre-feet of water from wells and controlled drainage.
n This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 1978 were double cropped. Includes 1016 acres served by subirrigation.

TABLE B-9

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1968 through September 1969

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	MONTHLY DELIVERIES IN ACRE-FEET OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL
							Delta Mendota Canal								
Plain View Water District	4.22	20.96	580	49	3	2	2	11	1143	3704	3248	4112	3324	1724	17902
Carnarro Land Company, Incorporated	6.96		1	1	1	1	1	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
Asbury Contractor, Incorporated	7.67		0	0	0	0	0	0	0	0	0	4	5	4	13
Westside Irrigation District	14.79		0	[illegible]	0	[illegible]	0	65	153	1546	927	1644	902	113	5355
Hospital Water District	18.05	30.96	790	21	127	3	6	173	1643	5205	3800	5144	3877	1799	22588
Banta-Carbona Irrigation District	20.42		60	2	0	0	[illegible]	0	196	1726	1461	2381	1135	105	7086
Gordon H. Ball, Incorporated	22.50		0	0	0	0	0	0	0	0	0	0	1	0	1
Kern Canon Water District	31.31	35.18	164	0	0	1	0	64	788	1314	1712	1468	1638	754	7903
West Stanislaus Irrigation District	31.31	38.14	0	0	0	[illegible]	0	0	0	1135	600	332	1734	0	6789
Del Puerto Water District	35.73	42.51	285	0	0	1	[illegible]	17	950	3088	2593	3006	2581	852	13373
Salado Water District	42.10	46.83	19	0	0	[illegible]	[illegible]	169	834	1274	1498	2097	879	280	7050
Patterson Water District	42.51		114	0	0	0	10	132	179	887	816	572	2194	1022	5926
Sunflower Water District	44.22	52.02	309	209	0	0	0	43	1264	1683	2444	2742	2348	959	12000
Orestimba Water District	46.83	51.41	123	151	0	[illegible]	1	212	1796	1566	2040	3316	1439	168	10814
A. Teichert & Son, Incorporated	51.41		0	0	0	0	0	0	0	0	3	5	5	0	13
Foothill Water District	51.65	57.46	152	129	0	1	1	73	592	1523	1667	1953	1435	746	8272
Davis Water District	53.64	56.82	23	22	0	0	0	0	282	712	781	769	637	577	3823
Mustang Water District	56.80	62.67	42	0	0	0	0	16	534	1180	1296	1978	1894	698	7638
Central California Irrigation District	58.26	76.05	441	0	0	0	0	0	381	5010	3997	8267	10248	2248	30592
Quinto Water District	64.32	67.55	1	68	0	0	0	8	286	1123	1421	1532	1410	599	6448
Romero Water District	66.70	68.03	137	0	0	0	0	0	189	610	556	529	711	433	3165
San Luis Water District, Municipal and Industrial	69.21		11	1	0	1	0	3	11	22	22	22	24	15	132
San Luis Water District	69.21	90.53	2754	1125	980	1619	821	2591	6662	11752	11049	10929	10089	2198	62569
Grasslands	70.00		11716	2535	0	0	0	0	0	0	0	0	0	4301	18552
Sam Hamburg Farms	90.53		3	3	2	2	3	4	1	4	6	5	5	4	42
Panoche Water District	93.25	96.70	1635	1487	137	147	2095	3115	7463	10431	8340	11550	8702	2799	57901
Eagle Field Water District	93.27	94.57	60	15	0	0	351	39	219	608	560	708	269	112	2961
Oro Loma Water District	95.50	96.62	0	0	0	0	0	0	329	1457	1063	1233	978	22	5082
West Side Golf Club	95.95		10	3	3	0	2	4	7	15	16	17	20	15	112
Mercy Springs Water District	97.70	99.81	0	0	0	0	0	0	367	1314	842	1143	1455	697	5818
Panoche Water District, Municipal and Industrial	100.85		0	0	0	0	0	0	0	[illegible]	0	[illegible]	0	1	1
Widren Water District	102.03		0	0	0	0	0	0	55	[illegible]	299	411	439	62	1743
Broadview Water District	102.95		160	1108	119	0	424	371	941	2266	3035	2989	1112	391	12916
Firebaugh Canal Company	107.85	109.45	0	0	0	0	0	0	0	0	0	5286	8127	293	13706
Total			19610	6929	1372	1778	3717	7110	27265	61632	56092	79154	69637	23991	358287
Net Deliveries DMC to Mendota Pool	115.62		74860	21971	1585	0	0	0	0	0	0	32456	145234	101823	377929
Net Deliveries DMC to O'Neill Forebay	69.30		141500	121087	68238	181843	170333	131353	86637	78137	53152	53059	49455	7206	1142000
								Madera Canal							
Madera Irrigation District	6.10	32.2	5336	0	0	0	781	2103	14440	25825	34209	45351	43083	27487	198612
Adobe Ranch	20.6		0	0	0	0	0	0	0	0	0	0	0	0	[illegible]
Chowchilla Water District	35.9		[illegible]	[illegible]	0	0	[illegible]	3146	9892	16396	27932	30463	30540	26504	144873
Total			5336	0	0	0	781	5249	24332	42221	62141	75814	73623	53991	343485

TABLE 8- [illegible]

[illegible] CENTRAL VALLEY [illegible]
October 196[illegible] through Sept[illegible]

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL
			MONTHLY DELIVERIES IN ACRE-FEET												
								Millerton Lake							
Fresno County Water District #1[illegible]			4	[illegible]	[illegible]		[illegible]	3	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 3
County of Madera			1	[illegible]	1		[illegible]	1	[illegible]	2	[illegible]	2	2	[illegible]	[illegible] 2
Millerton Lake Development Corporation			0	[illegible]	[illegible]			0			[illegible]		[illegible]		
Total			5	1	2		2	4	4	18	16	23	23	17	115
								Friant-Kern Canal							
Garfield Water District	[illegible]		178	117	160				33	45[illegible]	4[illegible]	[illegible]	4[illegible]	31[illegible]	2[illegible]53
Dog Creek Water District	14.8		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
International Water District	14.9		142	11	[illegible]				0	166	259	[illegible]	[illegible]	236	1431
Academy Water District	17.63		[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	21	21	[illegible]	12	[illegible]
Round Mountain Water District	2[illegible].85	21.33	0	[illegible]	0	0	[illegible]	[illegible]	0	16	21	32	31	3	13[illegible]
Round Mountain Ranch	20.22		0	24	[illegible]			[illegible]	0	0	0	[illegible]	[illegible]		24
Timber Springs Water District	27.56		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	0	0	32	4	6[illegible]	[illegible]	204
Consolidated Irrigation District	28.50		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0	[illegible]	[illegible]		
Last Chance Water Ditch Company	28.5[illegible]		[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	0		[illegible]
Laguna Irrigation District	28.5[illegible]		0	0	[illegible]		0	[illegible]	0	0	0	0	[illegible]		[illegible]
Corcoran Irrigation District	28.50		0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]		[illegible]
Stratford Irrigation District	28.50		0	0		0	0	[illegible]	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]
Tulare Lake Basin Water Storage District	28.50 & 95.64		0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0	0	[illegible]		[illegible]
Alta Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0		[illegible]
City of Fresno	25.51		0	0	0	0	0	0	0	0	0	0	10[illegible]	[illegible]	10[illegible]
Fresno Irrigation District	25.51 & 28.50		0	0	2674	1714	0	0	0	[illegible]	0	[illegible]	4320		6708
Murphy Slough Association	28.50		0	0	0	0	0	0	0	0	0	0	0	[illegible]	0
Kings River Water Association	28.50		0	0	0	0	0	[illegible]	0	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]
Empire Westside Irrigation District	28.50		0	0	0	0	0	0	0	[illegible]	0	0	0	[illegible]	[illegible]
Kings County Water District	28.50	71.29	0	0	0	0	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Orange Cove Irrigation District	35.87	53.31	1452	6[illegible]	0	0	0	0	1[illegible]1	3545	3975	6224	6114	4443	25[illegible]5
City of Orange Cove	43.44		12	0	0	0	0	0	11	36	39	55	55	43	251
Stone Corral Irrigation District	56.90	64.46	272	3	0	0	0	0	63	702	811	1706	1775	1129	6461
Ivanhoe Irrigation District	65.04	68.13	1113	797	0	0	0	165	430	2487	1849	1833	2826	253[illegible]	14037
Tulare Irrigation District	68.14	71.29	0	0	0	0	0	0	0	0	0	28263	40473	57575	126311
Lakeside Irrigation Water District	69.42		0	0	0	0	0	0	0	0	0	0	0	[illegible]	0
Kaweah-Delta Water Conservation District	69.08	71.29	0	0	0	0	0	0	0	0	0	10413	28967	13621	53001
Exeter Irrigation District	72.52	79.24	563	46	0	0	0	26	270	3229	3835	4691	4392	3378	2043[illegible]
Lewis Creek Water District	81.54		42	0	0	0	0	0	0	214	224	247	25[illegible]	211	1166
Lindsay-Strathmore Irrigation District	85.56		1701	188	0	0	0	0	87	3031	3759	4755	4939	4131	a 22591
Lindmore Irrigation District	86.17	91.12	1718	148	0	0	0	91	921	6169	8528	10912	101[illegible]2	6341	450[illegible]0
Porterville Irrigation District	93.93	98.62	328	0	0	0	0	98	1133	2220	2646	3769	3203	1972	15369
Lower Tule Irrigation District	95.67	98.62	0	0	0	0	1073	2551	6885	10042	19898	30536	33011	30935	134931
Tea Pot Dome	99.35		283	4	0	0	0	5	40	534	688	892	915	[illegible]	4078
Saucelito Irrigation District	98.62	107.37	421	0	0	0	90	330	2383	5165	8096	9816	862[illegible]	3906	38827
Cloer Community Service District	101.60		0	0	0	0	0	[illegible]	21	21	16	6	14	24	102
Terra Bella Irrigation District	102.65		830	34	0	0	0	0	0	1856	2859	3179	32[illegible]7	26[illegible]	14685
Pixley Irrigation District	102.69		0	0	0	0	0	[illegible]	0	629	5935	8957	8202	5[illegible]1	29424
Delano-Earlimart Irrigation District	109.48	118.45	2709	1599	329	0	95	1771	9562	21737	30984	34628	25946	11863	141223
Alpaugh Irrigation District	112.96		0	0	0	0	0	0	0	[illegible]	1143	242[illegible]	2717	414	6694
Southern San Joaquin Municipal Utility District	117.44	127.97	2868	990	77	0	0	1993	9796	14674	21360	25025	23889	10562	112[illegible]34
Rag Gulch Water District	117.96		0	0	0	0	[illegible]	[illegible]	443	1442	1863	2144	19[illegible]2	116[illegible]	[illegible]62
Kern County Water Agency	130.0[illegible]		0	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]
Shafter-Wasco Irrigation District	134.42	137.1[illegible]	1577	309	16[illegible]	0	119	1321	3[illegible]86	5478	8844	1[illegible]751	9822	381[illegible]	45992
Pacific Gas & Electric Company	150.83		0	0	0	0	0	0	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]
Rosedale Rio Bravo Water Storage District	151.0		0	0	0	0	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	0	[illegible]
Buena Vista Water Storage District	151.80		[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]	0	[illegible]	0	[illegible]	[illegible]	[illegible]	[illegible]
Arvin-Edison Water Storage District	151.80		486	2563	3[illegible]86	[illegible]	221[illegible]	1[illegible]87	12[illegible]	3734b	b32 99	b28876	27[illegible]33	1[illegible]	[illegible] 164[illegible]
Dicco Incorporated	150.63		0	0	0		[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	[illegible]	[illegible]
Total			16695	6832	[illegible]	[illegible]	[illegible]	994	4797[illegible]	120896	[illegible]	[illegible]	2[illegible]	[illegible]	1046266

Data furnished by the [illegible] Bureau of Reclamation. Acre-feet values are published as received and [illegible] according to the criteria used by the Department of Water Resources. Deliveries include operational spill.

a Includes water transported from Watchumna.
b Does not include 6 306 acre-feet deliveries from Kern River.

TABLE B-10

DELIVERIES FROM CALIFORNIA AQUEDUCT[a]
October 1968 through September 1969

WATER USER	MONTHLY DELIVERIES IN ACRE FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
					North San Joaquin Division								
South Bay Aqueduct	9584	5354	5748	4632	979	1318	1838	702	1471	5255	8055	8411	53347
Oak Flat Water District	0	0	0	0	0	38	440	487	609	1057	224	36	2891
Total	9584	5354	5748	4632	979	1356	2278	1189	2080	6312	8279	8447	56238
					O'Neill Forebay								
San Luis Water District Total	104	102	8	8	7	49	335	648	507	713	458	383	3322
					San Luis Division								
San Luis Water District	0	0	37	90	0	257	308	680	1029	2386	1019	314	6120
Panoche Water District	498	569	1782	2135	1943	1206	1906	3436	2959	3761	2926	859	23980
Westlands Water District	17441	11724	11480	12771	6135	3015	16922	29446	37842	43865	36990	16321	243952
City of Huron	0	0	3	2	0	0	0	3	31	64	68	55	226
Total	17939	12293	13302	14998	8078	4478	19136	33565	41861	50076	41003	17549	274278
					South San Joaquin Division								
Kings County	0	0	900	100	0	0	0	0	0	0	0	0	1000
Empire West Side Irrigation District	0	838	1140	56	0	0	0	0	0	0	0	0	2034
Tulare Lake Basin Water Storage District	3635	8865	9243	7081	0	0	0	0	0	0	0	0	28824
Hacienda Water District	0	0	0	0	0	0	0	231	769	1089	655	0	2744
Dudley Ridge Water District	138	346	868	2416	66	189	885	3358	6855	6608	6427	698	28854
Kern County Water Agency	2034	2292	2490	516	545	2299	6176	11193	14703	20425	16792	7209	86674
Total	5807	12341	14641	10169	611	2488	7061	14782	22327	28122	23874	7907	150130
					Coastal Branch								
Devils Den Water District	0	0	721	1037	667	0	426	482	1721	1888	2019	293	9254
Kern County Water Agency	942	789	2384	1539	198	329	5910	5031	8491	12396	11505	3072	52586
Total	942	789	3105	2576	865	329	6336	5513	10212	14284	13524	3365	61840
Delta Pumping Plant to California Aqueduct	142256	156534	158159	172496	91543	70267	74540	59932	29220	32337	34163	10536	1031983

a Does not include operational losses or changes in storage.

TABLE 8-11

IMPORTS AND EXPORTS
October 1968 through September 1969

WATER USER	IN ACRE-FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
						Imports from Delta							
California Aqueduct (a)	123900	151700	151300	167400	90020	69780	72130	58290	26990	26120	25100	1742	964500
Delta-Mendota Canal	233010	136630	67960	177210	166450	135610	112160	134460	112450	166180	268420	133420	1843960
Total Import from Delta	356900	288300	219300	344600	256500	205400	184300	192800	139400	192300	293600	135200	2809000
						Exports from Tuolumne River							
City and County of San Francisco (b)	25781	22165	23504	6210	5659	7311	14400	18460	20940	21582	21483	21033	208528

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco; acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

(a) Water delivered to San Luis Division including deliveries to Oak Flat Water District.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-12

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				DRY	NR	NR	187.06	189.98	190.73	192.34	191.46	NR	1
2				DRY	183.70	184.50	187.09	190.02	190.74	192.30	191.44	NR	2
3				DRY	184.07	184.20	187.16	190.08	190.76	192.30	191.41	190.39	3
4				DRY	184.41	184.10	187.22	190.14	190.84	192.23	NR	190.36	4
5				DRY	184.75	184.42	187.28	190.20	190.84	192.21	191.35	NR	5
6				DRY	185.00	184.67	187.36	190.26	191.00	192.20	191.32	NR	6
7				DRY	185.18	184.76	187.50	190.32	191.14	192.18	NR	NR	7
8				DRY	185.35	184.95	187.65	190.38	191.23	192.16	191.23	NR	8
9				DRY	185.55	185.20	187.76	190.45	191.34	192.14	191.19	NR	9
10				DRY	185.80	185.36	187.88	190.49	191.47	192.10	NR	NR	10
11				DRY	186.10	185.53	188.00	190.53	191.60	192.08	NR	NR	11
12				DRY	186.40	185.74	188.24	190.57	191.74	192.05	NR	NR	12
13				DRY	186.33	185.86	188.32	190.50	191.87	192.06	191.09	NR	13
14				DRY	186.43	185.97	188.46	190.54	191.90	192.06	NR	NR	14
15	D R Y	D R Y	D R Y	DRY	186.57	186.11	188.50	190.56	191.95	192.00	NR	NR	15
16				DRY	NR	186.19	188.62	190.56	192.06	191.98	NR	NR	16
17				DRY	186.77	186.26	188.75	190.60	192.16	191.95	NR	NR	17
18				DRY	186.92	186.50	188.94	190.64	192.20	191.93	190.81	NR	18
19				DRY	187.08	186.55	188.98	190.70	192.27	191.90	NR	NR	19
20				DRY	187.18	186.11	189.10	190.72	192.35	NR	NR	NR	20
21				NR	187.27	186.02	189.20	190.74	192.40	191.84	NR	NR	21
22				NR	187.23	186.08	189.30	190.69	192.43	191.80	NR	NR	22
23				NR	187.23	186.16	189.27	190.70	192.46	191.78	NR	NR	23
24				NR	187.23	186.23	189.37	190.71	192.50	191.76	NR	NR	24
25				NR	187.39	186.38	189.42	190.71	192.46	NR	190.64	NR	25
26				180.05	NR	186.46	189.55	190.72	192.45	NR	NR	NR	26
27				181.54	186.92	186.55	189.66	190.72	192.45	NR	190.60	NR	27
28				182.66	186.02	186.61	189.75	190.65	192.42	NR	190.56	NR	28
29				183.35		186.70	189.82	190.65	192.40	191.58	190.50	189.70	29
30				NR		186.79	189.90	190.66	192.35	191.53	NR	NR	30
31				NR		186.88		NR		191.50	NR		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
6-24-69		192.50									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company. During this water year the inundated area of the lake basin was 88,700 acres. Daily mean inflow to the lake is shown in Table B-5, page 106.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.18	2.04	1.87	1.70	9.45	8.71	8.58	8.87	9.67	5.32	2.39	1.82	1
2	2.19	2.05	1.87	1.70	9.53	9.08	8.02	9.05	9.89	5.32	2.40	1.82	2
3	2.19	2.06	1.87	1.71	9.53	9.12	7.34	9.04	10.49	5.33	2.40	1.82	3
4	2.19	2.01	1.87	1.71	9.57	9.19	7.07	8.73	11.02	5.34	2.40	1.82	4
5	2.19	1.98	1.81	1.72	9.59	9.33	7.18	7.78	11.44	5.34	2.39	1.79	5
6	2.18	1.98	1.70	1.72	9.45	9.57	7.80	6.32	11.67	5.35	2.39	1.79	6
7	2.18	1.94	1.70	1.73	9.41	9.71	8.29	8.68	11.65	5.16	2.38	1.80	7
8	2.18	1.90	1.70	1.73	9.47	9.75	8.50	9.58	11.66	4.66	2.28	1.79	8
9	2.14	1.90	1.70	1.73	9.48	9.76	8.89	9.69	11.68	4.22	2.13	1.78	9
10	2.12	1.87	1.71	1.74	9.52	9.43	8.53	9.66	11.64	4.22	2.13	1.78	10
11	2.07	1 82	1.71	1.74	9.55	9.53	7.75	9.66	11.47	4.22	2.13	1.83	11
12	2.05	1.83	1.71	1.74	9.53	9.63	7.21	9.62	10.92	4.22	2.12	2.02	12
13	2.06	1.83	1.71	1.91	9.53	9.64	7.07	9.60	10.36	4.22	2.12	2.00	13
14	1.98	1.84	1.73	2.18	9.40	9.71	7.26	9.62	10.07	4.22	2.02	1.97	14
15	1.91	1.84	1.73	1.88	9.32	9.73	7.60	9.66	10.07	4.23	1.95	1.97	15
16	1.90	1.84	1.72	1.83	9.29	9.75	7.57	9.69	10.07	4.23	1.96	1.98	16
17	1.87	1.84	1.72	1.81	9.26	9.76	7.21	9.64	10.07	3.97	1.97	2.01	17
18	1.83	1.84	1.72	1.94	9.19	9.76	6.97	9.62	10.07	2.87	1.97	2.01	18
19	1.83	1.84	1.73	2.86	8.96	9.78	6.84	9.66	9.81	2.34	1.97	2.01	19
20	1.83	1.84	1.73	2.58	8.98	9.78	6.84	9.66	9.23	2.22	1.96	2.01	20
21	1.83	1.84	1.73	3.34	8.88	9.68	6.85	9.62	8.52	2.21	1.95	2.01	21
22	1.83	1.84	1.73	2.81	8.84	9.73	6.62	9.65	7.90	2.27	1.93	2.00	22
23	1.83	1.84	1.74	2.90	8.89	9.75	6.35	9.65	7.01	2.38	1.93	2.00	23
24	1.85	1.84	1.75	4.55	8.07	9.78	6.35	9.65	5.62	2.57	1.95	2.00	24
25	1.90	1.84	1.76	6.49	7.36	9.79	6.24	9.66	5.28	2.75	1.96	2.00	25
26	1.93	1.84	1.77	6.67	8.10	9.79	5.91	9.65	5.29	2.70	1.90	2.00	26
27	1.97	1.84	1.76	6.81	8.52	9.38	6.07	9.65	5.29	2.56	1.80	2.00	27
28	2.00	1.85	1.76	7.84	8.60	8.68	6.17	9.65	5.30	2.40	1.80	1.99	28
29	2.05	1.86	1.76	9.18		8.37	6.81	9.67	5.31	2.39	1.81	1.99	29
30	2.05	1.86	1.76	9.20		8.35	8.15	9.64	5.31	2.39	1.81	1.93	30
31	2.04		1.72	9.32		8.56		9.68		2.39	1.81		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
2- 5-69	1600	9.63	5- 2-69	0630	9.06						
2-24-69	1430	10.40	5-10-69	0800	9.74						
3-24-69	1300	9.84	6- 6-69	1500	11.69						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reaservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07575	SAN JOAQUIN RIVER ABOVE SAND SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	100.65		NF	101.22	110.10	110.85	110.21	109.04	109.96	108.67	100.66	103.49	1
2	100.54		NF	101.17	110.20	110.82	110.12	109.58	110.02	108.60	100.63	103.51	2
3	100.68		NF	101.12	110.33	110.80	110.07	109.76	110.01	108.44	100.69	103.48	3
4	100.71		NF	101.09	110.41	110.87	110.00	109.74	110.07	108.30	100.74	103.50	4
5	100.84		NF	101.06	110.44	110.80	109.80	109.77	110.23	108.29	100.81	103.55	5
6	100.77		NF	101.03	110.51	110.71	109.97	109.66	110.43	108.02	100.81	103.48	6
7	100.65		NF	101.00	110.67	110.78	110.34	109.35	110.65	107.50	100.79	103.46	7
8	100.56		NF	100.97	110.62	110.84	110.31	109.32	110.83	106.99	100.68	103.39	8
9	100.57		NF	100.96	110.53	110.88	110.22	109.71	110.89	106.32	100.68	103.39	9
10	100.52		NF	100.91	100.52	110.96	110.24	109.91	110.94	105.87	100.61	103.50	10
11	100.59		NF	100.89	110.52	111.12	110.34	109.96	110.97	105.21	100.80	103.55	11
12	100.48	N	NF	100.87	110.51	111.01	110.25	109.94	111.00	104.79	100.71	103.45	12
13	100.47	O	NF	100.89	110.49	110.98	110.07	109.94	110.94	104.45	100.63	103.42	13
14	100.45		NF	101.00	110.48	110.93	109.92	109.93	110.80	104.31	100.57	103.32	14
15	100.42		NF	105.53	110.47	110.87	109.83	109.92	110.67	104.31	100.55	103.14	15
16	100.42	F	NF	104.37	110.50	110.85	109.83	109.88	110.62	104.25	100.39	103.02	16
17	100.41	L	NF	103.10	110.55	110.84	109.94	109.88	110.60	104.11	100.60	102.97	17
18	100.44	O	NF	102.63	110.53	110.83	109.76	109.90	110.57	103.96	100.64	102.78	18
19	100.52	W	101.00	102.81	110.67	110.84	109.63	109.88	110.54	104.56	100.76	102.41	19
20	100.52		101.56	107.91	110.74	110.87	109.53	109.94	110.48	104.95	101.21	102.11	20
21	100.50		101.60	107.58	110.66	110.86	109.44	109.96	110.39	104.69	101.34	102.04	21
22	100.56		101.59	108.55	110.65	110.99	109.42	109.96	110.05	104.06	102.12	102.30	22
23	100.56		101.58	108.17	110.59	110.92	109.37	109.95	109.72	103.80	102.26	102.57	23
24	100.69		101.61	108.28	110.93	110.90	109.24	109.95	109.48	103.68	102.25	102.43	24
25	100.60		101.60	108.24	111.65	110.90	109.19	109.95	109.14	103.54	102.67	102.34	25
26	100.67		101.59	109.51	111.51	110.92	109.21	109.98	108.89	103.43	102.67	102.38	26
27	100.66		101.51	109.38	111.24	110.76	109.21	110.06	108.76	102.23	102.49	102.27	27
28	100.41		101.45	109.35	110.94	110.64	109.08	110.08	108.73	102.59	102.76	102.18	28
29	100.38		101.40	109.58		110.46	109.00	110.09	108.71	101.80	103.04	102.14	29
30	NF		101.35	109.98		110.26	108.86	110.08	108.69	101.08	103.05	102.07	30
31	NF		101.28	110.08		110.22		110.04		100.70	103.38		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-24-68	1800	101.62	2- 5-69	1630	110.54	4-11-69	1930	110.36			
1-15-69	0815	106.16	2-25-69	0900	111.79	6-12-69	1130	111.00			
1-26-69	0645	109.59	3-11-69	0300	111.15	9- 2-69	0500	103.54			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 06 36	120 35 24	NE31 9S 13E		111.79	2-25-69	OCT 61-SEP 62	OCT 62-SEP 69	1961	1969	0.00	USCGS

Station located 5 miles northwest of Santa Rita Bridge and 5 miles west of El Nido on left bank of the San Joaquin River .5 mile above confluence with Eastside Bypass. Stationed discontinued 9-30-69.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	61.51	60.97	61.47	63.86	74.66	75.43	74.03	71.75	73.85	71.21	64.88	64.93	1
2	61.42	61.01	61.47	63.37	74.59	75.39	74.02	72.20	73.82	71.13	64.91	64.98	2
3	61.30	61.07	61.48	62.70	74.58	75.27	74.01	73.31	73.82	70.97	64.92	65.25	3
4	61.42	61.11	61.44	62.32	74.60	75.23	73.96	73.56	73.82	70.74	64.91	65.48	4
5	61.59	61.48	61.41	61.95	74.63	75.15	73.90	73.55	73.90	70.45	64.89	65.55	5
6	61.47	61.70	61.36	61.85	74.63	74.96	73.84	73.53	74.15	70.23	64.80	65.41	6
7	61.40	61.50	61.30	61.84	74.78	74.89	74.42	73.27	74.40	69.79	64.75	65.58	7
8	61.30	61.44	61.25	61.94	74.99	74.90	74.48	72.48	74.62	68.61	64.70	66.09	8
9	61.24	61.38	61.31	62.10	74.81	74.91	74.35	72.52	74.74	67.86	64.69	65.93	9
10	61.23	61.51	61.35	62.04	74.68	74.92	74.22	73.39	74.80	67.34	64.53	65.52	10
11	61.20	61.45	61.33	61.93	74.62	75.07	74.21	73.71	74.85	66.82	64.51	65.28	11
12	61.16	61.48	61.43	61.90	74.58	75.06	74.17	73.75	74.86	66.31	64.56	65.51	12
13	61.14	61.62	61.51	62.34	74.53	74.93	73.98	73.75	74.85	65.99	64.71	65.55	13
14	61.21	61.82	61.65	64.48	74.56	74.90	73.78	73.75	74.75	65.80	64.77	65.62	14
15	61.11	61.87	61.81	69.48	74.52	74.82	73.58	73.74	74.53	65.64	64.75	65.75	15
16	61.05	62.26	62.03	71.13	74.57	74.77	73.51	73.75	74.37	65.69	64.77	65.82	16
17	61.02	62.40	62.07	69.72	74.77	74.74	73.54	73.73	74.32	65.55	64.77	65.81	17
18	61.01	62.25	62.09	67.93	74.82	74.71	73.56	73.72	74.27	65.21	64.85	65.78	18
19	61.10	62.14	61.88	68.00	74.95	74.71	73.44	73.73	74.23	65.14	64.91	65.68	19
20	61.14	62.11	61.75	70.26	75.17	74.71	73.25	73.72	74.18	65.08	65.00	65.62	20
21	61.19	62.12	61.77	73.14	75.11	74.72	73.09	73.76	74.08	65.52	65.01	65.58	21
22	61.13	62.07	61.70	73.90	75.03	74.82	72.95	73.78	73.97	65.70	65.00	65.50	22
23	60.99	62.01	61.70	74.53	74.94	74.82	72.89	73.78	73.66	65.36	64.81	65.40	23
24	61.09	61.86	61.87	74.21	75.09	74.77	72.77	73.78	73.27	65.13	64.75	65.13	24
25	61.12	61.87	62.01	73.86	75.88	74.74	72.60	73.79	72.87	64.96	64.81	65.07	25
26	61.10	61.92	62.27	74.43	76.20	74.73	72.58	73.82	72.21	64.88	64.92	65.11	26
27	60.99	61.66	64.19	75.08	76.03	74.67	72.66	73.76	71.67	64.85	64.98	65.00	27
28	61.04	61.58	65.75	75.01	75.67	74.55	72.51	73.91	71.40	64.87	65.01	64.89	28
29	61.11	61.55	65.34	74.73		74.46	72.25	73.92	71.30	64.92	65.00	64.85	29
30	61.06	61.51	64.76	74.58		74.23	72.05	73.90	71.25	64.88	65.00	64.60	30
31	61.00		64.31	74.68		74.07		73.89		64.87	64.97		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11- 5-68	2215	62.08	1-27-69	2200	75.14	6-11-69	2100	74.87			
11-17-68	0100	62.44	2-26-69	1030	76.23	7- 9-69	1430	68.08			
12-28-68	0700	65.88	3-11-69	1900	75.13	9- 8-69	2300	66.13			

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flow regulated by upstream reservoirs and diversions.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1969	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55.26	54.80	55.10	57.08	66.57	67.32	65.95	64.67	65.93	63.88	56.91	56.92	1
2	55.18	54.88	55.11	56.76	66.49	67.24	65.94	64.69	65.91	63.84	56.87	57.04	2
3	55.18	54.97	55.16	56.35	66.45	67.19	65.93	65.16	65.91	63.72	56.93	57.13	3
4	55.13	55.07	55.28	55.98	66.44	67.17	65.90	65.52	65.92	63.56	56.89	57.35	4
5	55.14	55.32	55.29	55.67	66.45	67.05	65.89	65.59	65.96	63.33	56.89	57.42	5
6	55.03	55.64	55.19	55.46	66.45	66.90	65.78E	65.61	66.07	63.12	56.88	57.23	6
7	54.92	55.51	55.10	55.35	66.55	66.78	65.93E	65.50	66.26	62.86	56.80	57.42	7
8	54.86	55.41	55.10	55.35	66.85	66.75	66.05E	65.22	66.46	62.20	56.74	58.24	8
9	54.81	55.32	55.04	55.41	66.89	66.74	66.17	64.97	66.62	60.70	56.65	58.47	9
10	54.80	55.37	55.08	55.44	66.76	66.73	66.10	65.32	66.70	60.26	56.52	58.04	10
11	54.77	55.34	55.22	55.39	66.68	66.79	66.05	65.61	66.76	59.44	56.46	57.63	11
12	54.76	55.43E	55.24	55.37	66.66	66.83	66.04	65.71	66.76	58.91	56.57	57.48	12
13	54.76	55.48	55.31	55.89	66.59	66.74	65.94	65.74	66.71	58.36	56.59	57.53	13
14	54.79	55.54	55.38	56.90	66.56	66.68	65.81	65.72	66.61	58.13	56.52	57.51	14
15	54.81	55.61	55.54	60.54	66.53	66.63	65.69	65.74	66.43	58.03	56.60	57.66	15
16	54.69	55.79	55.76	63.12	66.52	66.57	65.63	65.80	66.27	57.96	56.71	57.79	16
17	54.71	55.99	55.84	63.34	66.66	66.53	65.61	65.80	66.18	58.11	56.68	57.71	17
18	54.63	55.98	55.81	62.38	66.82	66.51	65.61	65.79	66.14	57.69	56.74	57.69	18
19	54.60	55.93	55.72	61.83	66.88	66.51	65.58	65.80	66.10	57.45	56.78	57.64	19
20	54.55	55.82	55.60	62.56	67.09	66.49	65.48	65.80	66.06	57.43	56.72	57.57	20
21	54.61	55.73	55.54	64.48	67.13	66.49	65.39	65.81	65.99	57.63	56.89	57.56	21
22	54.66	55.65	55.49	65.50	67.03	66.52	65.31	65.83	65.93	58.06	56.90	57.56	22
23	54.62	55.61	55.46	66.16	66.95	66.59	65.29	65.81	65.78	57.82	56.88	57.52	23
24	54.56	55.59	55.46	66.31	66.97	66.53	65.21	65.81	65.55	57.38	56.75	57.28	24
25	54.66	55.59	55.58	66.12	67.50	66.49	65.14	65.83	65.30	57.20	56.81	57.07	25
26	54.65	55.59	55.71	66.16	68.02	66.47	65.11	65.85	64.96	57.16	56.94	57.15	26
27	54.61	55.50	56.46	66.93	67.94	66.44	65.11	65.89	64.55	57.16	57.00	57.16	27
28	54.61	55.31	57.95	67.08	67.52	66.36	65.08	65.91	64.24	57.05	56.97	57.09	28
29	54.67	55.22	58.14	66.69		66.28	64.96	65.94	64.03	57.09	56.95	57.04	29
30	54.72	55.18	57.78	66.58		66.15	64.85	65.95	63.93	57.15	57.03	56.91	30
31	54.79		57.39	66.56		66.01		65.95		56.97	57.03		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

a - SEE (a) BELOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-28-68	2245	58.24	6-11-69	2130	66.78						
1-28-69	0545	67.20	9- 9-69	0400	58.54						
2-26-69	1330	68.05a									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 18 35	120 55 45		8260b	68.02	2-27-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a The maximum gage height of 68.05 does not represent the maximum discharge, which occurred at gage height 68.02 feet on 2-27-69.

b Maximum discharge of 8,260 cfs is only for San Joaquin River channel. During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B0 5170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.67	7.18	6.19	6.29	6.35	12.39	10.77	10.15	12.74	8.51	7.63	8.28	1
2	5.33	6.33	6.19	6.27	6.33	12.42	10.76	10.15	12.87	8.50	7.62	8.27	2
3	5.06	6.37	6.19	6.27	6.32	12.43	10.76	10.15	12.89	8.51	7.58	8.35	3
4	5.10	6.26	6.19	6.26	6.33	12.42	10.73	10.15	12.91	8.54	7.58	8.39	4
5	5.29	6.13	6.19	6.25	7.02	12.39	11.19	10.12	13.08	8.78	7.62	8.40	5
6	5.35	6.10	6.19	6.24	10.77	12.40	11.21	10.00	13.10	8.86	7.58	8.38	6
7	5.36	6.11	6.19	6.24	11.81	12.42	11.13	9.96	13.10	9.06	7.64	7.79	7
8	5.52	6.13	6.19	6.24	12.36	12.43	11.08	10.01	13.09	8.66	7.70	8.47	8
9	6.24	6.13	6.19	6.39	12.53	12.44	10.99	10.31	13.00	8.49	7.70	8.46	9
10	6.24	6.13	6.20	6.15	12.52	11.95	10.95	10.36	12.67	8.50	7.72	8.50	10
11	6.27	6.15	6.20	6.18	12.49	11.21	10.83	10.38	11.96	8.18	7.24	8.53	11
12	6.31	6.20	6.20	6.27	12.51	11.20	10.77	10.40	10.93	7.68	6.62	8.55	12
13	6.44	6.16	6.19	6.89	12.49	11.17	10.76	10.74	10.36	7.67	6.65	7.92	13
14	6.84	6.17	6.27	7.33	12.45	11.17	10.86	11.07	10.29	7.68	6.65	7.12	14
15	7.25	6.23	6.24	6.42	12.54	11.17	11.13	11.30	10.27	7.70	7.82	8.32	15
16	7.27	6.20	6.26	6.32	12.40	11.17	11.04	11.41	10.26	7.64	7.89	7.33	16
17	7.26	6.18	6.24	6.31	12.44	11.16	10.98	11.46	10.28	7.61	7.93	7.46	17
18	7.21	6.17	6.23	6.34	12.38	11.16	10.97	11.51	10.28	7.63	7.95	7.68	18
19	7.32	6.16	6.23	7.61	12.47	11.16	10.82	11.69	9.75	7.57	7.95	7.78	19
20	7.31	6.17	6.22	6.66	12.40	11.17	10.63	11.94	8.78	7.49	7.94	7.87	20
21	7.36	6.17	6.22	8.52	12.40	11.20	10.57	12.04	8.72	7.55	7.92	7.96	21
22	7.40	6.17	6.26	7.07	12.40	11.16	10.42	12.08	8.66	7.54	8.00	8.04	22
23	7.43	6.18	6.43	6.49	12.40	11.15	10.46	12.07	9.07	7.55	8.03	7.45	23
24	7.40	6.18	6.28	6.40	12.27	11.15	10.55	12.09	10.43	7.59	8.02	6.74	24
25	7.40	6.21	6.40	7.82	11.98	11.14	10.44	12.07	10.92	7.60	7.93	6.75	25
26	7.38	6.20	6.75	7.38	11.40	11.13	10.36	12.11	10.54	7.60	8.06	6.74	26
27	7.36	6.20	6.36	6.65	11.27	10.99	10.43	12.25	9.73	7.43	8.18	6.77	27
28	7.37	6.19	6.32	6.58	11.60	10.86	10.33	12.26	8.86	7.40	8.15	6.86	28
29	7.41	6.18	6.31	6.55		10.73	10.26	12.33	8.63	7.46	8.18	6.88	29
30	7.44	6.18	6.28	6.40		10.86	10.20	12.49	8.57	7.52	8.23	6.96	30
31	7.46		6.40	6.38		10.84		12.57		7.55	8.27		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-26-68	0715	7.44	1-21-69	1400	9.70	4- 5-69	1540	11.78			
1-14-69	0845	7.79	1-25-69	1215	8.75	6- 6-69	0400	13.12			
1-19-69	1015	8.75	2-15-69	2330	12.73	6-25-69	0400	11.00			

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.95	12.10	10.58	10.82	11.45	19.35E	16.57	15.54	19.63	13.15	11.76	12.84	1
2	10.00	11.69	10.58	10.81	11.32	19.34E	16.57	15.53	19.93	13.02	11.75	12.86	2
3	10.04	11.08	10.57	10.73	11.23	19.32E	16.59	15.53	20.06	13.03	11.78	12.84	3
4	9.99	10.99	10.61	10.70	11.13	19.31E	16.57	15.52	20.09	13.06	11.74	12.98	4
5	9.93	10.82	10.58	10.68	11.12	19.30E	16.83	15.50	20.33	13.25	11.78	13.02	5
6	9.89	10.68	10.58	10.66	15.33	19.29	18.71	15.44	20.50	13.39	11.77	13.00	6
7	9.87	10.60	10.54	10.65	18.02	19.33	17.41	15.22	20.48	13.71	11.73	12.56	7
8	9.82	10.60	10.54	10.64	18.97	19.34	17.16	15.24	20.45	13.59	11.80	12.92	8
9	9.82	10.59	10.55	10.63	19.42	19.33	17.00	15.63	20.46	13.08	11.92	13.07	9
10	9.90	10.58	10.54	10.73	19.48	19.32	16.86	15.91	20.05	13.02	11.88	13.12	10
11	10.07	10.57	10.57	11.00	19.40	17.67	16.80	15.87	19.19	12.84	11.93	13.16	11
12	10.18	10.63	10.58	11.05	19.45	17.41	16.57	15.89	17.58	12.41	11.19	13.19	12
13	10.40	10.67	10.56	10.81	19.46	17.38	16.56	16.13	16.19	12.03	10.86	13.25	13
14	10.63	10.62	10.65	14.73	19.36	17.36	16.55	16.67	15.91	11.93	10.80	11.87	14
15	11.11	10.71	10.70	12.87	19.47	17.32	16.98	17.19	15.86	11.97	11.10	12.33	15
16	11.66	10.76	10.66	11.44	20.20	17.30	17.02	17.36	15.83	11.99	11.98	12.42	16
17	12.01	10.68	10.65	11.09	19.48	17.28	16.85	17.55	15.83	11.94	12.11	11.81	17
18	11.84	10.66	10.62	10.97	20.19	17.27	16.83	17.57	15.77	11.84	12.17	12.00	18
19	11.81	10.63	10.61	13.62	20.14	17.25	16.74	17.72	15.67	11.78	12.20	12.10	19
20	11.89	10.62	10.63	13.71	19.76	17.26	16.40	18.18	13.95	11.67	12.22	12.25	20
21	11.90	10.60	10.61	17.33	19.41	17.41	16.25	18.46	13.49	11.69	12.19	12.38	21
22	11.94	10.61	10.59	16.00	19.39	17.34	16.15	18.56	13.42	11.68	12.24	12.56	22
23	11.98	10.60	10.60	12.70	19.39	17.27	15.95	18.61	13.42	11.67	12.41	12.55	23
24	12.01	10.58	10.78	12.02	19.39	17.23	16.17	18.63	14.92	11.68	12.43	11.61	24
25	11.99	10.55	10.71	14.58	19.38	17.21	16.13	18.70	16.61	11.76	12.43	11.21	25
26	11.97	10.57	11.81	17.27	19.38	17.19	15.92	18.58	16.52	11.76	12.35	11.12	26
27	11.95	10.57	12.08	13.59	19.37	17.11	15.93	18.87	15.49	11.81	12.59	11.07	27
28	11.93	10.57	11.17	12.52	19.37	16.78	15.98	18.92	14.10	11.65	12.64	11.13	28
29	11.94	10.56	10.96	12.66		16.66	15.74	18.95	13.42	11.59	12.65	11.24	29
30	12.04	10.57	10.92	11.92		16.63	15.64	19.26	13.29	11.54	12.73	11.23	30
31	12.06		10.82	11.64		16.71		19.37		11.66	12.77		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-14-69	1500	16.15	4-6-69	0430	19.88						
1-21-69	1930	23.18	6-6-69	0915	20.52						
2-18-69	1545	21.09									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
				32.67a	12-4-50			1962		86.24	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	807300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	48.41	49.98	49.11	50.69	63.78	65.26	63.37	60.85	63.45	58.88	51.27	51.98	1
2	48.40	50.03	49.10	50.47	63.68	65.20	63.30	60.60	63.47	58.67	51.26	51.99	2
3	48.47	49.92	49.12	50.23	63.62	65.2 T	63.28	61.25E	63.51	58.50	51.31	52.10	3
4	48.49	49.58	49.20	49.92	63.62	65.1 T	63.24	61.60E	63.51	58.32	51.41	52.33	4
5	48.58	49.58	49.24	49.68	63.72	65.0 T	63.27	61.95E	63.52	58.07	51.30	52.43	5
6	48.34	49.69	49.16	49.47	63.80	64.9 T	63.34	62.05E	63.67	57.85	51.31	52.35	6
7	48.25	49.55	49.05	49.33	64.29	64.8 T	63.56	61.74	63.90	57.65	51.24	52.45	7
8	48.13	49.33	49.02	49.29	64.69	64.7 T	63.96	61.95	64.15	57.28	51.19	52.81	8
9	48.00	49.15	48.80E	49.29	64.73	64.7 T	63.90	61.36	64.37	56.11	51.16	53.12	9
10	48.03	49.08	48.70E	49.28	64.64	64.7 T	63.73	61.40	64.52	55.29	51.13	53.06	10
11	47.96	49.04	48.80E	49.27	64.61	64.7 T	63.59	62.12	64.58	54.60	51.13	52.89	11
12	48.05	49.01	48.90E	49.38	64.56	64.7 T	63.54	62.53	64.52	54.06	51.05	52.72	12
13	48.76	49.17	49.00E	49.91	64.50	64.7 T	63.42	62.62	64.34	53.40	50.73	52.72	13
14	49.18	49.30	49.20E	50.60	64.49	64.53	63.18	62.70	64.13	53.03	50.48	52.68	14
15	49.38	49.46	49.35E	54.01	64.48	64.49	62.91	62.80	63.90	52.74	50.48	52.12	15
16	49.49	49.60	49.60E	55.61	64.47	64.41	62.81	62.91	63.64	52.57	50.85	52.45	16
17	49.71	49.80	49.85E	56.22	64.58	64.37	62.73	62.99	63.45	52.58	51.18	52.27	17
18	49.82	49.82	49.70E	55.85	64.72	64.35E	62.70	63.00	63.35	52.33	51.33	51.90	18
19	49.15	49.75	49.60E	55.00	64.82	64.31	62.68	63.01	63.27	52.08	51.32	51.92	19
20	49.04	49.65	49.40E	56.14	64.95	64.29	62.51	63.01	63.16	51.94	51.40	51.89	20
21	49.09	49.60	49.30E	57.75	64.99	64.27	62.28	63.11	62.91	52.02	51.55	51.95	21
22	49.19	49.51	49.20E	62.31	64.90	64.30	62.06	63.20	62.71	52.18	51.51	52.08	22
23	49.34	49.47	49.10E	62.93	64.85	64.38	61.89	63.22	62.50	52.10	51.57	52.11	23
24	49.50	49.50	49.15E	63.39	64.88	64.34	61.76	63.24	62.14	51.78	51.65	51.90	24
25	49.61	49.54	49.35E	63.16	65.34T	64.28	61.70	63.21	61.95	51.61	51.70	51.38	25
26	49.67	49.53	50.00E	63.38	65.84T	64.25	61.59	63.24	61.78	51.55	51.68	51.14	26
27	49.68	49.52	50.45E	64.27	65.82T	64.22	61.54	63.26	61.25	51.58	51.75	51.04	27
28	49.81	49.38	51.50E	64.42	65.55T	64.11	61.52	63.36	60.53	51.59	51.82	50.95	28
29	49.77	49.27	52.20E	63.96		63.96	61.39	63.41	59.73	51.46	51.79	50.93	29
30	49.74	49.19	51.17	63.86		63.77	61.12	63.42	59.21	51.50	51.90	50.85	30
31	49.88		50.94	63.77		63.52		63.42		51.30	51.96		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

T — DETERMINED FROM TELEMARK READINGS

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11- 2-68	2100	50.09	4- 8-69	1315	63.99						
2- 8-69	1745	64.76	6-11-69	0815	64.58						
2-26-69	2100	65.90	9- 9-69	1300	53.19						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33300a	65.90	2-26-69	APR 12-DATE		1912		47.24	USCGS
									1959	47.31	USCGS
								1959		0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	38.69	39.84	39.19	40.64	55.44	58.02	55.25	52.04	55.37	49.77	42.34	42.88	1
2	38.73	39.91	39.17	40.43	55.41	57.85	55.12	51.68	55.38	49.45	42.37	42.75	2
3	38.84	39.96	39.15	40.26	55.28	57.77	55.08	51.65	55.41	49.23	42.33	42.74	3
4	38.73	39.67	39.20	39.99	55.21	57.58	55.05	52.60	55.42	49.07	42.55	42.86	4
5	38.90	39.59	39.25	39.78	55.24	57.58	55.07	53.60	55.43	48.87	42.34	43.08	5
6	38.80	39.65	39.23	39.58	55.41	57.38	55.15	53.88	55.57	48.63	42.28	43.06	6
7	38.64	39.63	39.13	39.45	55.70	57.17	55.30	53.87	55.83	48.42	42.21	43.13	7
8	38.52	39.44	39.08	39.40	56.41	57.11	55.86	53.61	56.17	48.12	42.19	43.64	8
9	38.42	39.29	39.03	39.35	56.88	57.08	55.98	52.96	56.51	47.25	42.17	43.82	9
10	38.43	39.17	39.02	39.36	56.96	57.07	55.77	52.58	56.71	46.26	42.12	43.86	10
11	38.32	39.14	39.08	39.33	56.86	57.07	55.54	53.25	56.79	45.56	42.16	43.76	11
12	38.39	39.10	39.10	39.38	56.88	57.06	55.43	53.98	56.74	45.11	42.00	43.53	12
13	38.79	39.19	39.10	39.68	56.76	56.94	55.30	54.26	56.54	44.50	41.81	43.50	13
14	39.32	39.28	39.19	40.20	56.68	56.80	55.03	54.33	56.29	44.08	41.62	43.49	14
15	39.49	39.45	39.29	42.34	56.75	56.72	54.68	54.45	55.99	43.72	41.44	43.15	15
16	39.54	39.56	39.47	44.58	56.76	56.60	54.51	54.59	55.67	43.58	41.57	43.03	16
17	39.61	39.72	39.59	45.57	56.82	56.51	54.43	54.71	55.36	43.55	41.99	43.10	17
18	39.77	39.77	39.58	45.76	57.03	56.46	54.32	54.75	55.20	43.40	42.30	42.66	18
19	39.36	39.72	39.55	45.67	57.20	56.41	54.28	54.76	55.10	43.14	42.23	42.65	19
20	39.12	39.64	39.47	46.62	57.36	56.40	54.17	54.79	54.97	42.96	42.30	42.57	20
21	39.13	39.60	39.36	47.97	57.49	56.37	53.93	54.86	54.71	42.98	42.32	42.59	21
22	39.28	39.54	39.33	50.32	57.42	56.40	53.64	54.97	54.43	43.06	42.33	42.71	22
23	39.49	39.47	39.29	52.90	57.37	56.57	53.37	55.04	54.22	43.06	42.40	42.69	23
24	39.49	39.47	39.28	54.26	57.48	56.61	53.17	55.05	53.79	42.82	42.51	42.61	24
25	39.56	39.51	39.34	54.96	57.95	56.51	53.06	55.08	53.46	42.66	42.63	42.25	25
26	39.62	39.50	39.44	55.07	58.70	56.45	52.90	55.10	53.27	42.56	42.50	41.92	26
27	39.62	39.53	39.74	55.72	58.72	56.40	52.82	55.10	52.72	42.58	42.49	41.82	27
28	39.70	39.45	40.90	56.42	58.45	56.30	52.79	55.18	51.87	42.69	42.59	41.81	28
29	39.74	39.36	41.27	55.95		56.10	52.69	55.27	50.92	42.50	42.61	41.76	29
30	39.68	39.27	41.13	55.70		55.87	52.34	55.32	50.21	42.47	42.69	41.80	30
31	39.75		40.87	55.47		55.53		55.35		42.37	42.75		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11- 3-68	0630	40.03	1-28-69	1430	56.50	5- 6-69	1900	53.90			
12-29-68	1330	41.29	2-26-69	0850	58.81	6-11-69	1730	56.81			
1-19-69	2200	46.55	4- 8-69	2300	56.04						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs and diversions.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1969	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	66.89	69.48	69.37	72.40	75.51	75.42	74.81	73.99	76.22	69.23	67.28	68.13	1
2	66.96	69.47	69.49	72.02	73.35	75.37	74.50	73.04	76.24	68.29	67.28	68.17	2
3	66.98	69.46	69.39	70.77	75.51	75.22	73.79	72.55	76.23	67.44	67.27	68.20	3
4	66.99	69.49	69.41	70.27	75.43	74.09	72.97	72.38	76.18	68.26	67.32	68.33	4
5	66.98	69.48	70.25	69.98	75.32	73.07	73.44	71.61	76.19	70.11	67.15	67.81	5
6	66.97	69.52	70.63E	70.92	75.33	72.80	74.56	71.25	76.27	69.93	67.12	67.20	6
7	66.98	69.44	70.56E	70.44	74.04	72.79	74.87	72.09	76.31	69.42	67.11	67.18	7
8	66.98	69.44	70.46E	70.21	75.29	72.79	75.17	72.70	76.30	69.19	67.11	67.17	8
9	66.99	69.44	70.37E	70.22	75.26	72.79	74.71	72.88	76.31	70.49	67.11	67.17	9
10	66.99	68.24	70.27E	70.14	75.21	72.79	73.67	72.81	76.36	72.11	67.11	67.23	10
11	67.00	67.40	70.17E	70.00	75.19	72.79	73.67	72.80	76.35	71.50	67.11	67.31	11
12	66.99	67.29	70.32E	69.35	75.17	72.79	73.68	72.80	76.33	71.13	67.11	67.23	12
13	67.01	67.19	70.65E	70.40	75.13	72.79	73.68	73.00	76.31	71.13	67.11	67.23	13
14	67.20	67.12	70.21E	70.60	75.08	72.79	73.67	73.52	76.25	70.53	67.11	67.23	14
15	67.51	67.15	69.88E	71.17	75.06	72.80	73.24	74.75	75.05	72.67	67.13	67.23	15
16	67.50	67.09	70.51E	71.14	75.05	72.80	72.55	75.50	74.13	72.73	67.13	67.31	16
17	67.45	67.07	70.81	71.12	74.47	72.40	72.71	75.78	74.70	70.18	67.13	68.16	17
18	67.40	67.08	70.77	71.20	74.01	72.15	72.75	75.80	74.99	69.19	67.14	68.26	18
19	67.39	67.09	70.80	73.21	74.66	72.15	73.02	75.82	73.56	69.47	67.14	68.36	19
20	67.29	67.09	71.16	75.38	74.63	72.18	73.27	75.85	72.88	70.42	67.37	68.38	20
21	67.42	67.08	71.25	75.96	73.90	73.18	73.14	75.86	72.80	70.52	67.19	68.39	21
22	67.72	67.08	71.22	75.90	73.25	73.41	72.96	75.86	72.78	68.77	67.14	68.40	22
23	68.90	67.08	71.36	75.83	73.27	73.38	72.67	75.88	73.58	68.51	67.13	68.41	23
24	69.51	67.07	71.04	75.85	74.12	73.84	73.07	75.92	74.77	68.46	67.09	68.43	24
25	69.49	67.06	70.69	75.98	75.24	74.23	73.33	75.94	75.19	68.72	67.10	68.81	25
26	69.48	67.42	71.68	81.53	75.49	73.54	73.30	75.96	74.15	69.10	67.10	70.41	26
27	69.48	68.80	72.50	77.54	75.46	73.00	73.32	76.10	72.03	68.80	67.64	71.44	27
28	69.45	69.40	72.49	76.21	75.44	73.00	73.07	76.18	70.18	67.69	67.93	71.44	28
29	69.50	69.38	72.47	75.61		73.15	73.20	76.18	70.17	67.31	67.98	71.28	29
30	69.48	69.38	72.45	75.35		74.06	73.74	76.19	69.64	67.31	68.03	70.86	30
31	69.48		72.43	75.11		74.84		76.20		67.30	68.08		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-21-69	0715	76.89	2-26-69	1200	75.56						
1-26-69	1100	86.29	3-31-69	1315	75.11						
2- 3-69	1500	75.63	6- 9-69	1630	76.40						

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 39 59	120 27 40	NW20 3S 14E	52200	88.0 86.29	12- 8-50 1-26-69	OCT 36-SEP 60 OCT 61-DATE		1937		1.76	USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles. To change gage height to elevation add 100 feet.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B0415C	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.49	70.28	70.12	73.02	76.56	76.17	75.42	74.36	76.81	68.62E	67.57	70.34	1
2	68.49	70.28	70.11	72.89	75.46	76.11	75.00	73.93	76.81	68.09E	67.55	70.34	2
3	68.50	70.33	70.24	71.53	75.53	75.96	74.74	72.76	76.81	68.07E	67.50	70.42	3
4	68.52	70.23	70.16	71.25	76.45	75.16	73.37	72.83	76.77	68.23E	67.49	70.51	4
5	68.54	70.27	70.31	70.81	76.41	73.74	73.50	72.06	76.72	69.92E	67.55	70.54	5
6	68.55	70.25	71.28	71.06	76.41	73.19	75.03	71.46	76.80	70.18	67.48	70.22	6
7	68.58	70.30	71.28	71.41	75.28	73.17	75.12	71.98	76.85	70.03	67.34	70.21	7
8	68.57	70.22	71.06	71.00	76.07	73.16	75.62	72.72	76.85	69.33E	67.34	70.04	8
9	68.58	70.22	70.93	70.86	76.31	73.17	75.54	73.26	76.82	69.44E	67.33	69.94	9
10	68.58	70.11	70.61	70.85	76.25	73.17	74.17	73.10	76.90	71.90	67.34	69.94	10
11	68.56	69.02	70.78	70.64	76.22	73.16	74.04	73.10	76.90	71.86	67.32	69.92	11
12	68.64	68.80	70.67	70.56	76.18	73.16	74.02	73.09	76.88	71.31	67.32	69.94	12
13	68.64	68.72	70.90	70.34	76.12	73.15	74.01	73.19	76.86	71.31	67.35	69.95	13
14	68.66	68.67	70.94	71.55	76.08	73.15	73.93	73.55	76.82	71.09	67.35	69.95	14
15	68.85	68.69	70.24	71.82	76.06	73.15	73.80	74.90	76.28	71.61	67.35	69.93	15
16	68.79	68.66	70.17	71.74	76.05	73.13	72.72	75.77	74.55	73.06	67.35	69.93	16
17	68.80	68.63	71.40	71.71	75.83	72.93	72.73	76.35	74.75	71.57	67.36	69.95	17
18	68.78	68.61	71.43	71.72	74.72	72.40	72.80	76.38	75.55	69.39	69.92	70.37	18
19	68.79	68.58	71.38	72.68	75.54	72.38	72.94	76.41	74.44	69.28	69.92	70.48	19
20	68.75	68.57	71.58	76.16	75.60	72.38	73.41	76.44	73.02	70.19	69.92	70.58	20
21	68.74	68.57	71.97	77.00	75.21	73.13	73.39	76.45	72.91	70.45	69.98	70.61	21
22	68.71	68.56	71.85	76.98	73.98	73.80	73.24	76.46	72.85	69.70	69.98	70.61	22
23	68.85	68.56	71.80	76.84	74.01	73.77	72.84	76.48	73.31	68.65	69.94	70.62	23
24	70.14	68.56	71.93	76.83	74.46	73.93	72.98	76.49	74.69	68.59	69.92	70.64	24
25	70.24	68.55	71.43	77.14	76.24	74.80	73.50	76.53	75.57	68.50	69.92	70.72	25
26	70.26	68.55	71.69	81.23	76.30	74.23	73.49	76.55	75.07	69.07	69.92	71.29	26
27	70.25	68.59	73.09	81.42	76.21	73.38	73.74	76.62	73.21	69.25	69.90	72.42	27
28	70.24	69.99	73.12	77.98	76.18	73.36	73.34	76.76	70.41	68.45	70.14	72.45	28
29	70.27	70.11	73.10	77.25		73.37	73.33	76.77	70.23	67.77	70.23	72.47	29
30	70.31	70.12	73.07	76.67		74.10	73.85	76.78	70.04	67.62	70.25	72.19	30
31	70.29		73.05	76.29		75.10		76.80		67.58	70.32		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-26-69	2000	87.10	4-1-69	1345	75.53	6-10-69	0400	76.91			
2-26-69	0830	76.41	4-8-69	0100	75.62						
3-25-69	1600	74.87	5-1-69	1200	74.37						

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.57	67.76	67.73	68.65	70.00	73.87	68.15	68.69	68.93	69.06	68.34	69.85	1
2	68.48	67.78	67.72	68.48	69.65	72.89	68.33	68.59	68.93	69.17	68.41	69.60	2
3	68.57	68.21	67.72	68.38	69.45	70.63	68.37	68.52	68.96	68.41	68.21	69.49	3
4	68.59	69.64	67.72	68.32	69.23	70.18	68.37	68.42	68.87	68.26	68.22	69.48	4
5	68.61	68.78	67.74	68.28	69.09	69.63	68.52	68.44	68.88	68.14	68.27	69.24	5
6	68.69	68.32	67.74	68.25	69.40	69.31	71.84	68.41	68.96	68.16	68.30	68.35	6
7	68.81	68.07	67.73	68.22	72.44	69.07	71.49	68.38	69.03	68.16	68.18	68.43	7
8	68.78	67.92	67.72	68.18	70.23	68.87	69.55	68.64	69.03	68.30	68.20	68.46	8
9	68.66	67.87	67.72	68.17	69.43	68.73	68.78	69.08	69.02	68.26	68.22	68.57	9
10	68.60	67.84	67.72	68.18	69.13	68.61	68.45	69.29	68.75	68.20	68.32	68.49	10
11	68.65	67.82	67.72	68.18	69.03	68.96	68.34	69.30	68.57	69.16	68.42	68.36	11
12	68.78	67.82	67.72	68.16	69.44	68.73	68.32	69.21	68.63	69.27	68.38	68.28	12
13	68.83	67.81	67.72	68.17	70.94	68.57	68.36	69.14	69.15	69.34	68.19	68.33	13
14	69.29	67.81	67.80	77.68	69.60	68.86	68.37	69.18	69.16	69.29	68.21	68.32	14
15	69.12	68.18	68.08	78.19	69.49	68.66	68.29	69.03	69.28	68.99	68.11	68.42	15
16	68.60	68.76	68.43	71.31	74.54	68.43	68.33	68.98	69.26	68.75	68.21	69.22	16
17	68.33	68.28	68.92	69.90	71.43	68.31	68.36	68.91	69.18	68.98	68.37	69.24	17
18	68.20	68.14	68.85	69.40	73.17	68.25	68.44	69.29	69.21	69.03	68.41	69.15	18
19	68.11	68.08	68.31	72.73	78.33	68.18	68.37	69.22	69.08	68.36	68.30	69.20	19
20	68.07	67.99	68.10	82.40	75.15	68.15	68.36	69.08	68.97	68.32	68.22	69.35	20
21	68.02	67.92	67.98	80.26	71.47	68.11	68.38	69.02	69.06	68.34	68.37	69.47	21
22	67.90	67.87	67.92	84.36	70.48	69.55	68.45	69.03	68.98	68.42	68.29	69.56	22
23	67.85	67.80	67.88	74.69	70.32	68.77	68.38	68.95	69.04	68.41	68.17	69.61	23
24	67.82	67.77	67.88	71.42	76.34	68.36	68.51	68.90	68.80	68.21	68.20	69.68	24
25	67.79	67.75	68.11	76.45	80.73	68.18	68.54	68.87	68.86	68.35	68.13	69.30	25
26	67.74	67.75	71.26	85.08	76.88	68.08	68.43	68.86	68.80	68.60	68.17	68.38	26
27	67.79	67.74	75.59	80.60	74.38	68.06	68.57	68.97	68.80	68.81	68.35	68.37	27
28	67.79	67.74	70.64	73.12	71.07	68.01	68.67	69.28	68.84	68.92	68.46	68.48	28
29	67.80	67.73	69.59	73.28		67.96	68.77	69.10	68.83	68.29	69.13	68.52	29
30	67.79	67.73	69.47	71.41		67.92	68.77	68.97	68.98	68.27	69.15	68.46	30
31	67.78		68.94	70.43		67.90		69.14		68.28	69.36		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-14-69	2215	83.97	1-26-69	2315	85.76	2-25-69	1000	83.02	4- 6-69	1715	74.44
1-20-69	0745	85.08	2-16-69	1130	76.02	2-26-69	2030	79.05			
1-22-69	0200	87.18	2-19-69	0215	80.63	3- 1-69	1400	75.53			

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. Station is operated under a cooperative agreement between the Department of Water Resources and the Modesto Irrigation District. Drainage area is 192.3 square miles.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.21	41.86E	41.83	44.68	51.98	52.89	49.98	47.64	53.32	42.27	41.40	41.63	1
2	41.20	41.92E	41.84	44.60	52.27	52.88	49.70	47.94	53.40	42.17	41.38	41.63	2
3	41.21	41.94E	41.87	43.68	49.47	52.12	49.58	45.92	53.43	41.85	41.36	41.61	3
4	41.21	41.95E	41.87	42.73	51.96	51.17	47.56	45.39	53.45	41.62	41.38	41.65	4
5	41.20	41.91E	41.87	42.40	52.10	48.64	46.63	44.81	53.32	41.71	41.35	41.69	5
6	41.22	41.89E	42.19	42.24	52.12	46.88	48.84	43.73	53.31	42.24	41.36	41.56	6
7	41.23	41.88E	42.43	42.71	52.40	46.30	50.43	43.40	53.49	42.22	41.33	41.58	7
8	41.25	41.87E	42.34	42.44	50.36	46.15	50.80	44.56	53.59	42.02	41.32	41.60	8
9	41.24	41.86E	42.29	42.32	51.81	46.08	51.07	45.64	53.61	41.94	41.33	41.41	9
10	41.23	41.84E	42.24	42.30	51.91	46.06	49.74	45.86	53.57	42.90	41.35	41.39	10
11	41.25	41.48E	42.21	42.27	51.90	46.03	48.18	45.81	53.53	44.34	41.33	41.39	11
12	41.26	41.34	42.15	42.22	51.89	46.07	47.89	45.80	53.51	43.54	41.31	41.35	12
13	41.31	41.29	42.20	42.00	52.00	46.05	47.84	45.82	53.54	43.22	41.29	41.37	13
14	41.49	41.26	42.41	44.24	51.75	46.07	47.77	46.30	53.56	43.20	41.31	41.38	14
15	41.51	41.28	42.10	46.49	51.65	46.04	47.61	47.50	53.42	42.70	41.28	41.36	15
16	41.40	41.32	41.99	43.58	52.34	45.98	46.41	49.79	50.85	45.87	41.30	41.44	16
17	41.33	41.26	42.33	43.03	52.05	45.91	45.53	51.30	49.23	45.30	41.33	41.47	17
18	41.25	41.23	42.62	42.94	50.59	45.11	45.77	51.99	50.36	42.59	41.32	41.45	18
19	41.24	41.21	42.60	43.59	52.08	44.78	45.71	52.19	50.44	42.03	41.32	41.62	19
20	41.22	41.19	42.62	51.50	52.00	44.75	46.33	52.27	47.60	42.15	41.29	41.69	20
21	41.20	41.18	42.84	53.60	51.04	45.09	46.58	52.35	46.55	42.45	41.28	41.72	21
22	41.18	41.17	42.83	56.94	48.88	46.79	46.30	52.42	46.27	42.45	41.32	41.70	22
23	41.17	41.17	42.80	54.56	47.81	47.06	45.91	52.48	46.26	41.92	41.31	41.71	23
24	41.36	41.16	42.94	53.09	49.12	46.99	45.54	52.52	47.99	41.75	41.30	41.72	24
25	41.76	41.15	42.74	53.79	53.28	48.22	46.40	52.60	50.19	41.71	41.33	41.74	25
26	41.80E	41.15	42.76	57.45	53.80	48.43	46.66	52.67	50.83	41.78	41.29	41.71	26
27	41.82E	41.15	45.52	63.65	53.60	47.19	46.80	52.72	48.60	41.92	41.30	42.33	27
28	41.83E	41.35	45.25	58.07	52.66	46.48	46.52	53.01	44.88	41.97	41.35	42.84	28
29	41.84E	41.80	44.93	55.30		46.56	46.24	53.18	42.86	41.56	41.47	42.93	29
30	41.86E	41.85	44.87	53.61		46.89	46.61	53.21	42.62	41.44	41.49	42.82	30
31	41.86E		44.77	52.61		48.61		53.28		41.38	41.55		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-27-68	1415	46.10	2-25-69	1615	54.31	6- 9-69	0545	53.65			
1-22-69	0845	57.46	4- 9-69	0215	51.10	6-26-69	1515	50.91			
1-27-69	0645	65.42	5- 2-69	0400	48.01						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	804105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.32	25.22	24.98	30.12	38.87	40.31	37.66	35.80	39.16	31.40	25.57	25.32	1
2	23.34	25.24	25.05	30.04	38.84	40.16	37.66	36.02	39.18	30.59	25.52	25.36	2
3	23.32	25.53	25.16	29.64	38.21	39.93	37.55	35.29	39.19	29.88	25.44	25.33	3
4	23.34	25.60	25.25	28.10	38.35	39.63	37.18	34.53	39.19	29.08	25.32	25.37	4
5	23.37	25.60	25.20	27.37	38.56	39.08	36.79	34.58	39.18	28.75	25.29	25.48	5
6	23.39	25.46	25.57	26.80	38.61	38.61	37.09	34.60	39.17	29.47	25.28	25.39	6
7	23.39	25.37	26.71	27.36	38.70	38.25	37.73	34.58	39.23	29.65	25.23	25.27	7
8	23.46	25.35	26.77	27.41	38.34	38.03	37.86	34.96	39.32	29.11	25.19	25.43	8
9	23.46	25.28	26.60	26.94	38.74	37.93	38.15	35.33	39.41	28.74	25.22	25.06	9
10	23.43	25.25	26.49	26.78	39.01	37.88	38.02	35.36	39.45	29.12	25.23	24.90	10
11	23.46	25.10	26.27	26.73	39.06	37.84	37.47	35.22	39.50	30.77	25.13	24.91	11
12	23.62	24.25	26.25	26.55	39.07	37.86	37.23	35.40	39.51	30.50	25.11	24.88	12
13	23.52	23.83	26.23	26.21	39.07	37.84	37.15	35.75	39.42	29.90	25.02	24.83	13
14	23.78	23.67	26.74	27.26	38.98	37.73	37.07	36.09	39.32	29.78	25.03	24.85	14
15	24.10	23.74	26.46	31.67	38.94	37.63	36.94	36.49	39.19	29.24	25.03	24.78	15
16	23.88	23.68	25.84	29.87	39.03	37.55	36.60	37.36	38.53	31.07	24.95	24.82	16
17	23.66	23.62	26.24	28.89	39.08	37.46	36.21	38.07	37.63	30.76	25.00	24.94	17
18	23.55	23.49	27.29	28.83	38.82	37.31	36.16	38.50	37.65	29.44	24.97	24.88	18
19	23.46	23.45	27.39	29.10	39.02	37.15	36.10	38.67	37.82	27.73	24.97	25.19	19
20	23.38	23.40	27.36	33.92	39.25	37.09	36.16	38.72	37.09	27.56	24.92	25.43	20
21	23.33	23.37	27.67	37.72	39.19	37.10	36.25	38.76	36.51	28.22	24.89	25.58	21
22	23.30	23.35	28.03	39.68	38.90	37.33	36.13	38.79	36.28	28.34	24.89	25.53	22
23	23.26	23.34	27.96	40.11	38.51	37.54	35.93	38.82	36.14	27.42	24.87	25.52	23
24	23.23	23.32	28.09	39.38	38.60	37.60	35.62	38.84	36.40	26.73	24.86	25.57	24
25	24.30	23.32	28.05	39.60	39.36	37.72	35.68	38.88	37.10	26.55	24.83	25.57	25
26	24.86	23.31	27.64	40.79	40.08	37.85	35.83	38.90	37.48	26.49	24.77	25.47	26
27	24.98E	23.29	29.76	42.38	40.31	37.62	35.79	38.92	36.90	26.78	24.76	26.39	27
28	25.09	23.34	30.80	41.33	40.43	37.36	35.79	39.00	35.41	26.98	24.84	28.23	28
29	25.12	24.42	30.37	40.31		37.26	35.54	39.08	33.49	26.27	24.95	28.56	29
30	25.19	24.89	30.29	39.72		37.18	35.51	39.11	32.37	25.81	25.02	28.55	30
31	25.23		30.22	39.24		37.39		39.13		25.63	25.17E		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11- 5-68	0100	25.75	1-15-69	1200	32.10	2-28-69	0400	40.46	6-26-69	1800	37.52
12- 7-68	2400	27.00	1-22-69	2230	40.49	3-26-69	0500	37.90	7-11-69	2345	30.98
12-14-68	2245	27.22	1-27-69	0845	42.86	5- 2-69	0900	36.05	7-17-69	0045	32.13
12-27-68	2350	31.06	2-20-69	1545	39.29	6-12-69	0245	39.54			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.88	16.26	15.93	19.81	34.00	36.89	31.83	28.42	33.32	25.64	17.65	18.00	1
2	14.83	16.33	15.93	19.67	33.72	36.62	31.73	28.43	33.35	24.88	17.64	18.04	2
3	14.88	16.55	15.95	19.49	33.31	36.25	31.53	28.26	33.37	24.30	17.63	18.00	3
4	14.99	16.59	16.01	18.62	32.81	35.85	31.35	27.83	33.38	23.62	17.59	18.00	4
5	15.07	16.51	16.01	17.97	32.77	35.37	31.05	27.75	33.38	23.35	17.52	18.20	5
6	15.18	16.39	16.08	17.47	32.73	34.77	31.05	28.07	33.38	23.51	17.35	18.28	6
7	15.17	16.37	16.64	17.38	32.70	34.19	31.51	28.25	33.42	23.50	17.32	18.39	7
8	15.10	16.32	16.86	17.64	32.71	33.78	31.89	28.45	33.53	23.15	17.29	18.76	8
9	15.01	16.20	16.76	17.39	33.02	33.50	32.38	28.69	33.67	22.75	17.29	18.75	9
10	14.91	16.10	16.68	17.29	33.58	33.36	32.60	28.69	33.86	22.23	17.36	18.71	10
11	14.88	16.02	16.55	17.37	33.85	33.30	32.32	28.57	33.99	22.47	17.36	18.74	11
12	14.90	15.66	16.57	17.37	33.93	33.26	31.94	28.83	34.00	22.37	17.12	18.69	12
13	15.25	15.32	16.50	17.34	34.03	33.21	31.69	29.49	33.79	21.81	17.04	18.48	13
14	15.75	15.25	16.21	17.59	34.14	33.01	31.46	30.02	33.47	21.46	17.02	18.48	14
15	16.26	15.38	16.91	20.81	34.11	32.78	31.15	30.48	33.15	21.02	16.88	18.41	15
16	16.20	15.39	16.52	21.97	34.12	32.66	30.75	31.10	32.70	21.26	16.78	18.27	16
17	15.96	15.43	16.45	21.84	34.18	32.57	30.28	31.71	31.94	22.11	16.98	18.34	17
18	15.68	15.43	17.17	22.03	34.17	32.42	30.01	32.18	31.65	21.29	17.25	18.28	18
19	15.51	15.43	17.44	22.20	34.20	32.21	29.85	32.47	31.65	19.87	17.42	18.17	19
20	15.24	15.38	17.40	23.72	34.58	32.09	29.75	32.58	31.41	19.35	17.37	18.37	20
21	15.04	15.33	17.45	26.97	34.78	32.00	29.77	32.64	30.90	19.57	17.42	18.41	21
22	14.99	15.29	17.68	30.66	34.74	32.03	29.68	32.71	30.54	19.65	17.45	18.45	22
23	15.06	15.25	17.68	33.16	34.45	32.21	29.42	32.79	30.22	19.33	17.44	18.45	23
24	15.12	15.20	17.70	32.50	34.28	32.40	29.14	32.90	29.98	18.72	17.55	18.36	24
25	15.37	15.18	17.82	32.46	34.72	32.47	28.90	32.97	29.96	18.46	17.78	18.31	25
26	15.83	15.20	17.62	33.51	35.79	32.52	28.88	33.03	30.04	18.28	17.62	18.27	26
27	15.97	15.19	18.29	36.62	36.48	32.42	28.86	33.04	29.85	18.51	17.54	18.35	27
28	16.07	15.20	19.75	36.44	36.78	32.20	28.82	33.06	29.06	18.57	17.57	19.30	28
29	16.14	15.53	19.99	35.70		32.02	28.66	33.12	27.82	18.38	17.67	19.70	29
30	16.20	15.86	20.03	35.13		31.92	28.50	33.21	26.60	17.94	17.83	19.84	30
31	16.21		19.95	34.48		31.84		33.27		17.79	17.89		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-15-68	1715	16.33	12-29-68	2245	20.04	2-28-69	2400	37.00	7-17-69	0745	22.19
11- 3-68	2030	16.65	1-23-69	0800	33.43	4-10-69	0830	32.63			
12-15-68	0600	17.09	1-27-69	2015	38.31	6-12-69	0600	34.03			

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 28	121 13 37	SW29 3S 7E		37.00a	2-28-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions.

a This maximum gage height does not represent the maximum discharge as the station was affected by backwater from the Stanislaus River.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.28	1.82	2.05	2.79	12.00	9.77	7.27	6.51	12.98	4.23	1.62	1.52	1
2	1.28	1.83	2.01	3.26	9.68	9.48	7.03	6.57	12.98	3.57	1.60	1.50	2
2	1.32	2.02	2.27	3.30	9.50	9.31	6.85	6.62	12.87	2.60	1.57	1.55	2
4	1.34	2.02	2.09	3.28	8.90	8.70	6.84	6.63	12.96	4.49	1.54	1.62	4
5	1.36	1.88	2.00	3.27	7.92	8.73	7.37	6.66	12.77	4.67	1.54	1.56	5
6	1.38	1.96	2.04	3.27	8.13	8.65	8.36	6.66	12.41	3.38	1.55	1.66	6
7	1.38	2.05	1.98	3.58	7.67	8.52	8.24	6.68	11.98	4.10	1.58	1.68	7
8	1.36	1.99	2.05	4.63	8.06	8.38	8.24	6.72	11.16	3.49	1.62	1.63	8
9	1.38	2.04	2.03	4.68	8.12	8.20	8.26	6.91	10.77	2.68	1.60	1.50	9
10	1.41	2.01	1.99	5.88	8.28	8.26	8.38	7.40	9.64	2.66	1.59	1.42	10
11	1.39	2.02	2.08	5.43	9.27	7.92	8.41	11.56	7.58	2.78	1.58	1.42	11
12	1.48	2.05	2.05	5.88	10.30	7.49	7.66	11.96	6.12	3.48	1.65	1.43	12
13	1.48	2.02	1.98	6.97	9.80	6.88	7.52	12.40	4.90	3.50	1.61	1.39	13
14	1.50	2.02	2.16	9.02	9.63	6.69	7.30	12.66	3.85	3.46	1.60	1.38	14
15	1.52	2.26	2.15	7.65	9.87	8.01	7.07	12.93	3.79	4.69	1.58	1.37	15
16	1.46	2.12	2.41	7.34	9.57	7.93	6.97	13.01	5.71	3.24	1.57	1.41	16
17	1.40	2.00	2.11	7.20	9.35	7.86	6.96	13.02	8.62	1.93	1.55	1.43	17
18	1.49	2.08	2.11	6.80	10.06	7.76	6.85	13.03	7.92	1.83	1.56	1.39	18
19	1.85	2.08	2.00	9.67	9.71	7.66	6.70	13.02	7.68	1.73	1.58	1.43	19
20	1.85	2.08	2.06	12.85	9.53	7.57	6.69	12.95	7.68	1.64	1.64	1.34	20
21	1.87	2.03	2.06	20.70	9.11	7.57	6.63	12.82	7.37	1.58	1.58	1.32	21
22	1.87	1.96	2.06	18.33	8.68	7.43	6.59	13.01	7.02	1.61	1.55	1.35	22
23	1.82	2.02	2.06	13.03	9.28	7.37	6.55	13.03	6.72	1.56	1.54	1.44	23
24	1.81	2.05	2.10	11.92	10.41	6.95	6.60	12.94	6.23	1.57	1.57	3.94	24
25	1.84	2.06	2.52	14.51	10.24	6.41	6.62	12.88	5.25	1.59	1.58	4.53	25
26	1.83	2.06	2.92	18.28	10.11	6.79	6.65	12.94	3.91	1.58	1.57	4.74	26
27	1.83	2.00	2.21	16.14	9.71	6.79	6.68	12.88	2.24	1.57	1.55	4.86	27
28	1.83	2.04	2.12	13.26	9.71	7.56	6.62	12.95	1.98	1.55	1.59	4.85	28
29	1.81	2.04	2.14	12.84		8.28	6.51	13.10	1.94	1.57	1.60	4.77	29
30	1.90	2.05	2.07	12.79		8.15	6.50	13.05	1.95	1.56	1.61	3.78	30
31	1.88		2.03	12.78		7.72		12.94		1.58	1.56		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-10-69	1130	6.17	2-12-69	0815	10.48	4-10-69	1600	8.51	7- 5-69	0345	5.82
1-14-69	0600	9.69	2-24-69	1550	11.73	5-11-69	1300	12.96	7-15-69	0800	5.20
1-21-69	1400	23.11	3-14-69	2115	8.18	6-17-69	0100	8.85			
1-26-69	1245	19.85	3-28-69	1700	8.41	7- 1-69	1030	5.02			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	36.67	36.79	36.96	37.19	55.93	53.28	49.74	46.73	55.84	40.28	37.45	37.51	1
2	37.04	36.80	36.97	37.53	55.27	53.35	48.85	46.82	55.82	42.12	37.66	37.41	2
3	37.10	36.91	36.95	38.52	53.90	53.02	48.26	47.05	55.77	41.28	37.96	37.50	3
4	36.91	37.59	37.00	38.82	53.42	52.68	47.93	47.19	55.71	40.10	37.81	37.45	4
5	36.96	37.50	37.13	38.88	52.41	51.87	48.00	47.24	55.71	42.74	37.78	37.54	5
6	37.05	37.19	37.03	38.91	51.01	51.62	49.69	47.13	55.57	42.45	37.72	37.63	6
7	37.17	37.01	36.99	38.93	50.88	51.42	50.72	47.18	55.26	41.26	37.58	37.86	7
8	36.82	36.99	36.96	39.48	50.25	51.17	50.60	47.09	54.90	41.47	37.47	38.27	8
9	36.91	37.00	36.93	41.02	50.45	50.89	50.54	47.20	54.34	40.59	37.24	38.19	9
10	36.81	36.97	36.95	41.56	50.52	50.64	50.57	47.51	53.94	39.94	37.30	37.84	10
11	36.61	36.99	36.95	43.09	50.87	50.55	50.77	48.83	52.95	39.72	37.58	37.72	11
12	36.63	37.00	36.95	42.96	52.35	49.99	50.67	53.14	50.17	39.73	37.61	37.62	12
13	37.07	37.05	37.00	43.74	53.59	49.21	49.84	54.72	47.16	40.51	37.54	37.50	13
14	37.69	37.04	37.03	46.31	53.27	47.92	49.50	55.37	44.75	40.57	37.22	37.79	14
15	38.03	37.12	37.15	49.10	53.06	48.35	48.96	55.60	43.49	40.60	37.25	37.72	15
16	37.82	37.50	37.32	47.92	53.30	49.79	48.45	55.87	42.99	41.72	37.23	37.80	16
17	37.57	37.42	37.67	47.33	53.00	49.81	48.18	55.94	46.89	40.16	37.27	37.66	17
18	37.20	37.18	37.44	46.91	52.86	49.68	48.07	55.98	50.38	39.06	37.31	37.47	18
19	36.94	37.08	37.20	46.86	53.63	49.48	47.81	56.00	49.67	38.76	37.37	37.93	19
20	36.75	37.10	37.09	51.23	53.39	49.27	47.64	55.94	49.23	38.55	37.23	38.06	20
21	36.77	37.07	37.03	55.33	52.98	49.16	47.71	55.88	49.17	38.36	37.22	38.00	21
22	36.78	37.04	37.01	59.85	52.37	49.02	47.46	55.88	48.54	38.13	37.18	38.10	22
23	36.80	36.99	36.99	57.69	51.76	48.79	47.25	56.01	48.10	38.02	37.24	37.77	23
24	36.82	36.95	37.02	56.06	52.72	48.66	47.21	56.01	47.21	37.87	37.62	37.81	24
25	36.75	36.98	37.10	55.68	53.85	47.60	47.23	55.92	46.25	38.11	37.66	39.55	25
26	36.74	36.99	37.49	57.30	53.88	47.12	47.37	55.91	44.52	38.12	37.48	41.18	26
27	36.74	37.00	38.52	58.66	53.54	47.46	47.37	55.91	42.46	38.34	37.53	41.80	27
28	36.73	36.98	38.13	57.15	53.17	47.64	47.30	55.89	40.95	38.22	37.30	42.20	28
29	36.73	36.95	37.67	56.28		49.51	47.01	55.92	40.59	38.00	37.43	42.40	29
30	36.75	36.98	37.46	55.98		50.54	46.83	55.99	40.39	37.89	37.84	42.13	30
31	36.77		37.29	55.94		50.47		55.91		37.61	37.69		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-22-69	0945	60.43	5-23-69	1845	56.04						
2-25-69	1815	54.09	6-18-69	0915	50.58						
4-12-69	0500	50.93									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	27.73	27.56	27.67	27.90	45.54	43.34	40.04	37.05	45.62	31.64	29.20	29.30	1
2	27.94	27.58	27.67	27.97	45.22	43.45	39.28	37.12	45.60	33.11	29.33	29.17	2
3	28.17	27.69	27.65	28.86	44.02	43.22	38.67	37.28	45.62	32.75	29.67	29.23	3
4	28.00	28.07	27.66	29.27	43.44	42.92	38.35	37.46	45.53	31.60	29.43	29.31	4
5	28.08	28.27	27.80	29.40	42.82	42.27	38.42	37.52	45.54	33.39	29.22	29.28	5
6	28.10	28.02	27.77	29.45	41.29	41.85	39.52	37.40	45.47	33.94	29.38	29.32	6
7	28.21	27.82	27.68	29.49	41.00	41.63	40.72	37.48	45.25	32.68	29.30	29.67	7
8	28.01	27.75	27.67	29.72	40.41	41.37	40.75	37.38	45.00	32.81	29.30	30.14	8
9	27.97	27.76	27.63	31.13	40.53	41.08	40.72	37.52	44.58	32.16	29.06	30.13	9
10	27.82	27.73	27.65	31.69	40.63	40.81	40.77	37.70	44.27	31.46	29.12	29.94	10
11	27.77	27.72	27.67	33.16	40.89	40.71	40.90	38.70	43.67	31.19	29.33	29.67	11
12	27.76	27.73	27.65	33.26	41.93	40.31	40.95	41.93	41.66	31.09	29.38	29.44	12
13	28.09	27.77	27.68	33.80	43.28	39.63	40.27	44.28	38.71	31.78	29.37	29.34	13
14	28.72	27.77	27.75	35.46	43.35	38.58	39.89	45.50	36.56	32.04	28.98	29.62	14
15	29.04	27.82	27.80	38.54	43.09	38.49	39.40	45.76	35.36	31.73	29.13	29.67	15
16	28.96	28.07	27.93	37.81	43.17	39.88	38.85	45.90	34.90	33.06	29.13	29.72	16
17	28.52	28.16	28.22	37.26	43.11	39.99	38.48	45.90	37.38	31.82	29.20	29.54	17
18	28.18	27.96	28.18	36.96	42.82	39.87	38.34	45.86	40.87	30.65	29.26	29.38	18
19	27.90	27.82	27.93	36.68	43.36	39.70	38.09	45.86	40.53	30.32	29.16	29.70	19
20	27.68	27.81	27.82	39.76	43.44	39.50	37.85	45.77	40.02	30.09	28.99	29.92	20
21	27.63	27.79	27.73	43.20	43.09	39.37	38.01	45.70	39.92	30.08	29.01	29.82	21
22	27.63	27.77	27.70	48.16	42.64	39.27	37.86	45.66	39.42	29.73	28.96	29.93	22
23	27.64	27.73	27.68	46.77	42.00	39.07	37.62	45.74	38.87	29.72	28.83	29.45	23
24	27.68	27.68	27.70	45.72	42.41	38.96	37.57	45.75	38.12	29.52	29.34	29.36	24
25	27.60	27.68	27.77	45.24	43.47	38.28	37.51	45.70	37.24	29.71	29.46	30.71	25
26	27.57	27.69	27.99	46.20	43.88	37.61	37.60	45.67	35.89	29.78	29.13	32.59	26
27	27.52	27.71	28.78	47.42	43.69	37.94	37.62	45.65	34.25	30.03	29.42	33.04	27
28	27.52	27.69	28.89	46.49	43.34	38.01	37.62	45.64	32.72	30.05	29.10	33.57	28
29	27.56	27.66	28.45	45.81		39.28	37.34	45.64	32.27	29.70	29.04	33.78	29
30	27.58	27.68	28.19	45.60		40.46	37.17	45.72	31.88	29.58	29.56	33.67	30
31	27.58		28.02	45.54		40.54		45.68		29.36	29.50		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-15-68	2330	29.20	1-22-69	1200	48.78	5-17-69	0400	45.93	9-30-69	0930	33.85
12-27-68	2200	29.14	2-26-69	0130	43.95	6-18-69	1415	41.01			
1-15-69	1130	38.74	4-12-69	0800	41.07	7- 6-69	0200	34.81			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963		0.37	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon.

TABLE B-12 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1969	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.55	11.88	11.65	15.48	30.70	32.91	28.41	24.78	29.94	21.75	14.21	14.40	1
2	10.48	11.98	11.64	15.34	30.39	32.72	28.33	24.78	29.95	21.04	14.27	14.39	2
3	10.58	12.18	11.65	15.29	29.99	32.42	28.12	24.70	29.96	20.58	14.34	14.35	3
4	10.67	12.32	11.72	14.70	29.44	32.05	27.94	24.32	29.98	19.87	14.32	14.37	4
5	10.81	12.31	11.73	14.09	29.29	31.67	27.67	24.24	29.98	19.68	14.16	14.48	5
6	10.95	12.19	11.81	13.58	29.20	31.15	27.60	24.50	29.96	19.99	14.03	14.59	6
7	10.93	12.12	12.26	13.45	29.12	30.63	28.00	24.67	29.98	19.88	13.98	14.71	7
8	10.81	12.05	12.55	13.74	29.14	30.22	28.37	24.77	30.03	19.59	13.96	15.07	8
9	10.69	11.94	12.47	13.69	29.29	29.94	28.74	24.95	30.10	19.23	13.96	15.13	9
10	10.66	11.86	12.39	13.75	29.74	29.77	29.01	25.04	30.20	18.63	13.99	15.05	10
11	10.67	11.78	12.29	14.04	30.07	29.68	28.89	24.96	30.32	18.67	14.06	15.02	11
12	10.55	11.52	12.29	14.21	30.17	29.64	28.56	25.25	30.29	18.69	13.86	14.96	12
13	10.93	11.14	12.22	14.24	30.29	29.60	28.28	26.06	30.06	18.29	13.79	14.81	13
14	11.53	11.04	12.38	14.55	30.39	29.44	28.05	26.69	29.72	18.02	13.68	14.83	14
15	12.10	11.17	12.68	17.35	30.37	29.23	27.77	27.21	29.36	17.63	13.58	14.82	15
16	12.15	11.21	12.35	18.72	30.35	29.13	27.40	27.83	29.01	17.70	13.49	14.68	16
17	11.85	11.31	12.26	18.61	30.39	29.07	26.94	28.40	28.42	18.46	13.67	14.68	17
18	11.53	11.32	12.85	18.68	30.39	28.95	26.58	28.84	28.13	17.88	13.93	14.67	18
19	11.30	11.26	13.17	18.79	30.39	28.78	26.39	29.13	28.14	16.51	13.99	14.53	19
20	11.04	11.21	13.12	19.99	30.68	28.65	26.27	29.30	27.98	15.89	13.98	14.79	20
21	10.78	11.15	13.14	23.10	30.83	28.56	26.27	29.34	27.56	15.94	13.96	14.86	21
22	10.68	11.11	13.36	27.58	30.92	28.57	26.18	29.38	27.19	15.97	13.96	14.89	22
23	10.73	11.06	13.38	30.29	30.66	28.67	25.90	29.44	26.81	15.77	13.92	14.83	23
24	10.83	11.00	13.40	29.47	30.50	28.80	25.56	29.54	26.51	15.20	14.07	14.72	24
25	10.96	10.95	13.53	29.15	30.80	28.90	25.28	29.62	26.39	14.97	14.32	14.75	25
26	11.42	10.96	13.42	30.11	31.67	28.92	25.21	29.66	26.42	14.82	14.17	15.08	26
27	11.58	10.97	13.84	32.83	32.40	28.87	25.22	29.66	26.20	14.98	14.07	15.20	27
28	11.68	10.97	15.31	32.52	32.62	28.71	25.18	29.68	25.38	15.06	14.09	15.93	28
29	11.76	11.17	15.63	32.16		28.56	25.07	29.74	24.07	14.96	14.12	16.46	29
30	11.81	11.56	15.67	31.76		28.51	24.88	29.83	22.73	14.62	14.30	16.63	30
31	11.83		15.61	31.15		28.44		29.90		14.41	14.37		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-23-69	0400	30.60	2-17-69	2400	30.42	3-26-69	1800	28.94			
1-27-69	2200	34.55	2-22-69	1200	30.94	4-10-69	1800	29.05			
2-14-69	2400	30.41	3- 1-69	1400	32.96	6-11-69	2100	30.35			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 26		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-13

CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published in Bulletin No. 130-66, Volume IV.

For other corrections and revisions to previously published reports dating back to 1924, refer to page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-13

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
		Bulletin No. 23-58 Surface Water Flow for 1958			
132		Table 149 San Joaquin River at Whitehouse	July acre-feet	247300	24730
			Water Year Total	1292000	1069000
		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley			
B-19		Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
			Maximum Discharge of record	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge 1963 Water Year — flow	3850E	4170E
			gage ht.	9.98	10.07
			Maximum Discharge of record — flow	3850E	4170E
			gage ht.	9.98	10.07
B-98	8 (12.00-13.75)	Table B-87 Tranquillity Irrigation District	Diversions — Oct.	204	204
			Nov.		
			Dec.		
			Jan.		52
			Feb.	1777	2005
			March	4066	4112
			April		383
			May		2291
			June		7200
			July	557	7454
			Aug.	6306	6659
			Sept.	1414	1414
			Total	14324	31774
		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley			
68		Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record — flow	3850E	4170E
			gage ht.	9.98	10.07
		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley			
61		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge of record — flow	4166E	4170E
			gage ht.	9.97	10.07
			date	1-7-65	2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge Jan. 8	0.0	B NR
			9	0.0	A NR
			10	0.0	C NR
			11	0.0	K NR
			12	0.0	W NR
			13	0.0	A NR
			14	0.0	T NR
			15	0.0	E NR
			16	0.0	R NR
			17	0.0	NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions — Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley			
76		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record — flow	4166E	4170E
			gage ht.	9.97	10.07
			date	1-7-65	2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

TABLE B-13 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM		CHANGE	
PAGE	MILE & BANK	NAME			FROM	TO
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January		18033	1833
			Average cubic feet per second		293	29.8
			Monthly use in percent of seasonal		3.5	0.4
			Total Diversion		516577	500377
			Average cubic feet per second		714	691
133		Table B-9 Exports from Tuolumne River	Total acre-feet	Oct.	15655	15696
				Nov.	12685	12721
				Dec.	14987	15023
				Jan.	7812	7851
				Feb.	11913	11946
				March	15566	12607
				April	11060	11106
				May	15208	15260
				June	18388	18438
				July	21398	21462
				Aug.	21312	21379
				Sept.	19498	19552
				Total	185482	183041
		Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley				
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions	Sept.	40	17
				Total	278	255
		Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley				
104		Table B-5 Laguna Water District	Diversions	May		90
				June		110
				July		110
				Aug.		90
				Total		400
107	1.9 L 2.9L	Table B-5 J. V. Steenstrup Estate	Name		J. V. Steen-strup Estate	John & Robert Bogetti

APPENDIX C

GROUND WATER MEASUREMENT

INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the spring well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 538 wells for reporting of actual measurements.

This appendix presents ground water measurement data on these 538 wells for the period October 1, 1968, through September 30, 1969. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:

5-22.15

Region (Central Valley Region)

Ground Water Basin (San Joaquin Valley)

District or area (Fresno Irrigation District)

The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:

13S / 19E - 16 K 01 M

Township

Range

Section

Tract

Sequence Number

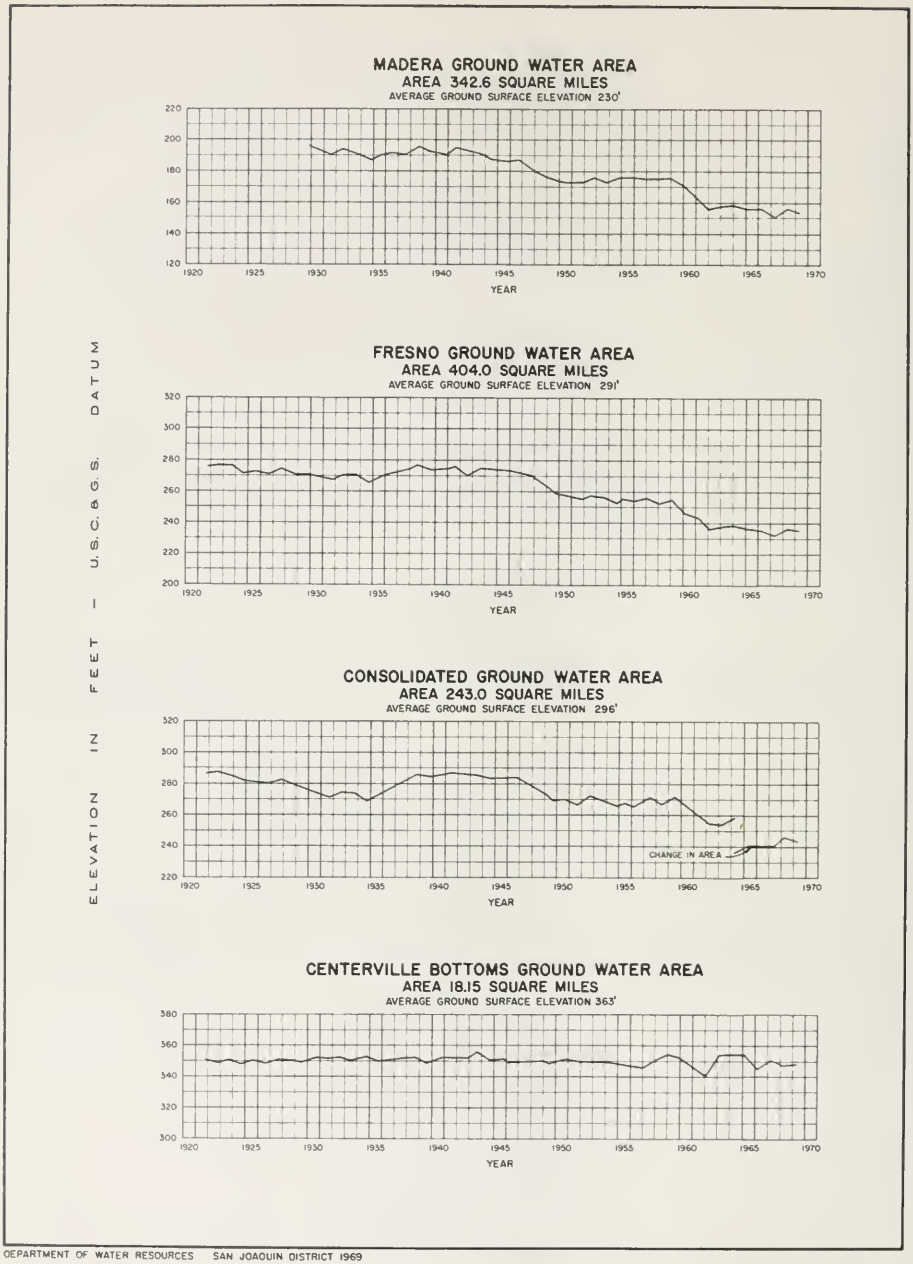
Base and Meridian (M) Mount Diablo (S) San Bernardino

This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

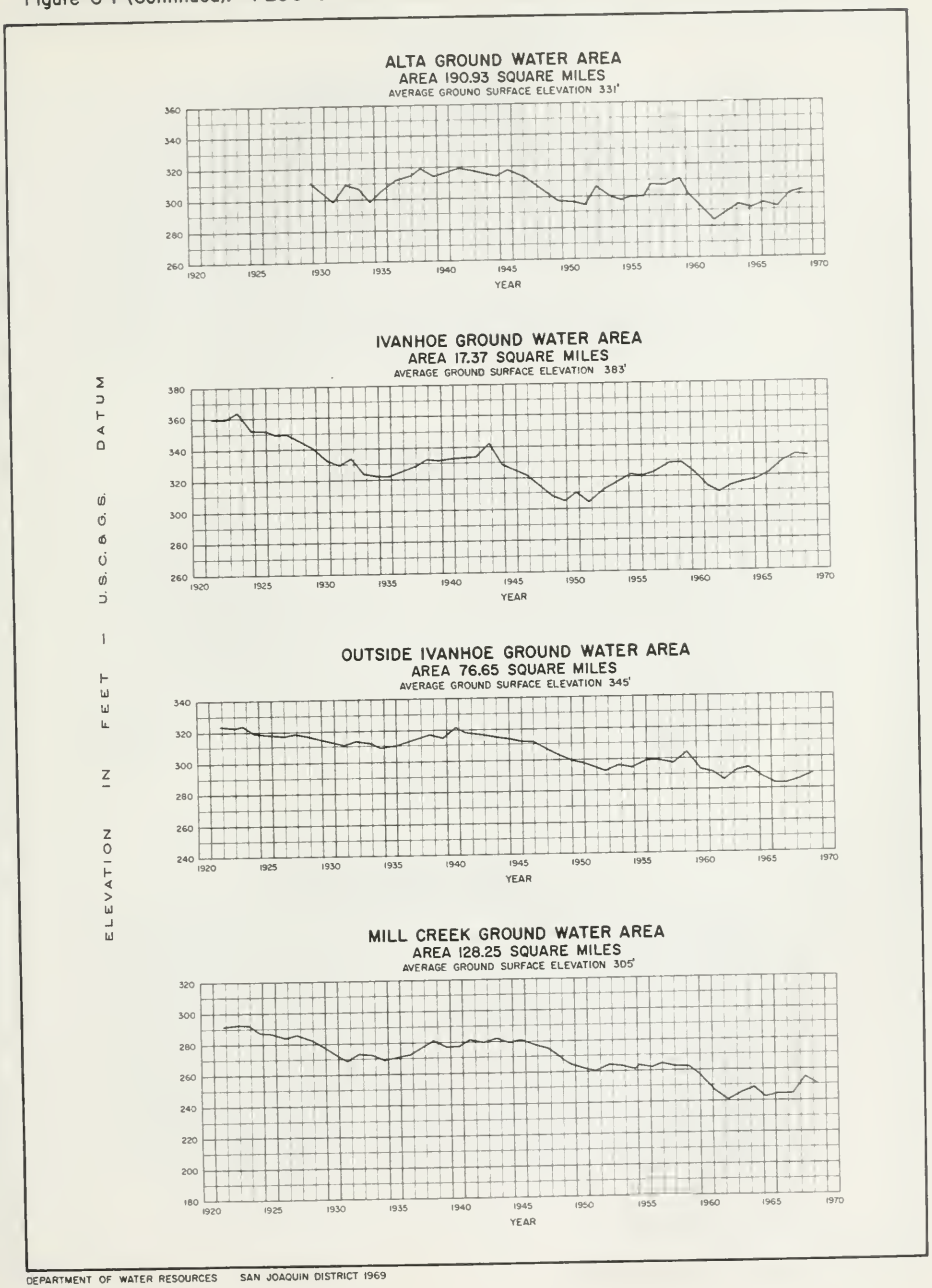
Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

Figure C-I. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



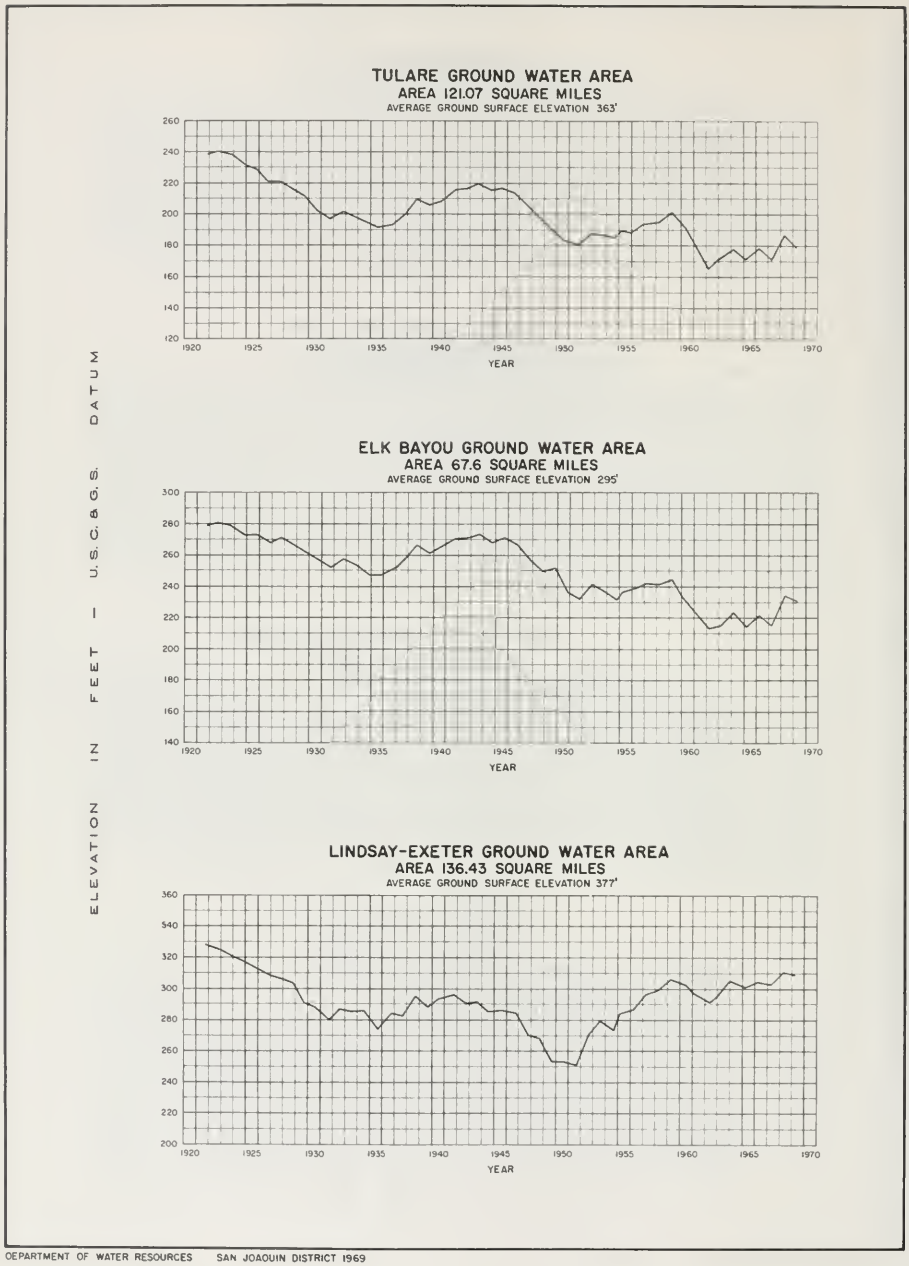
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

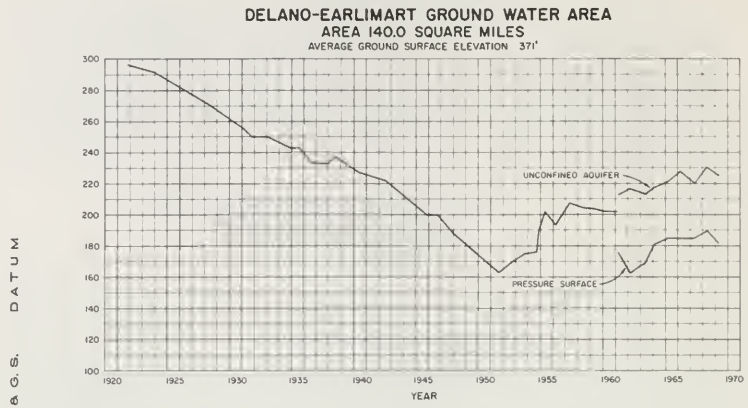


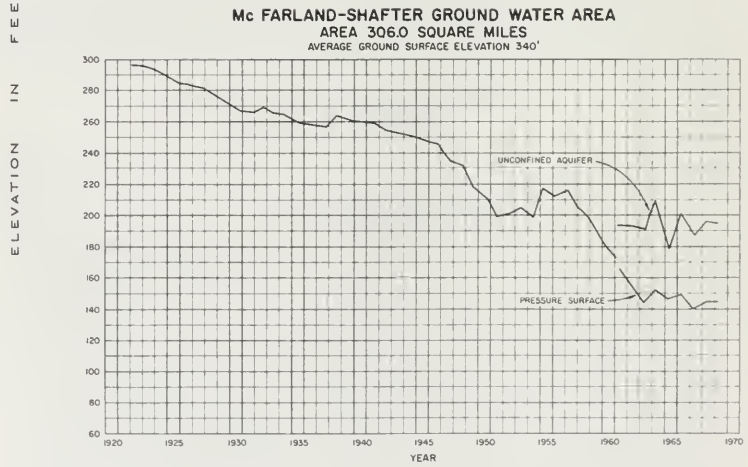
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

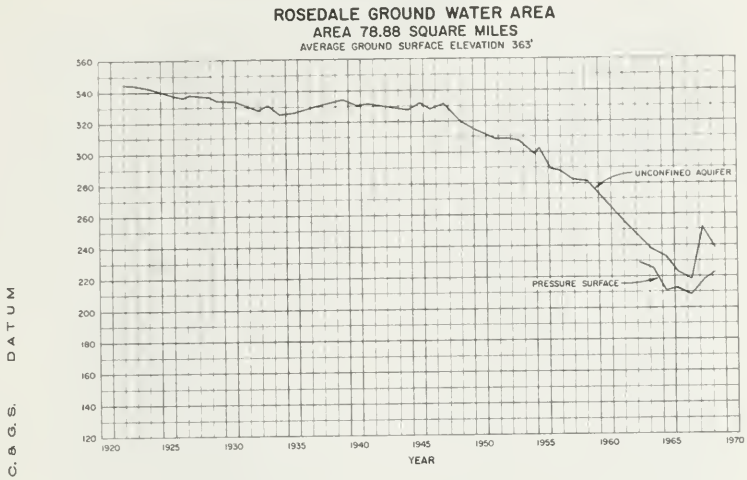


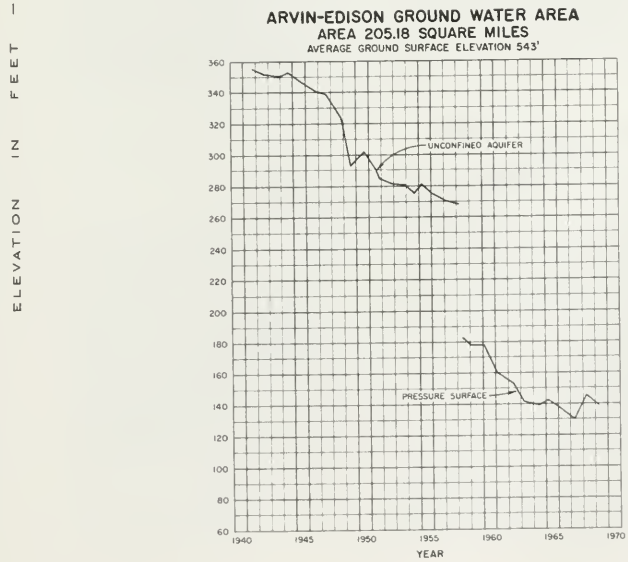


ELEVATION IN FEET — U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

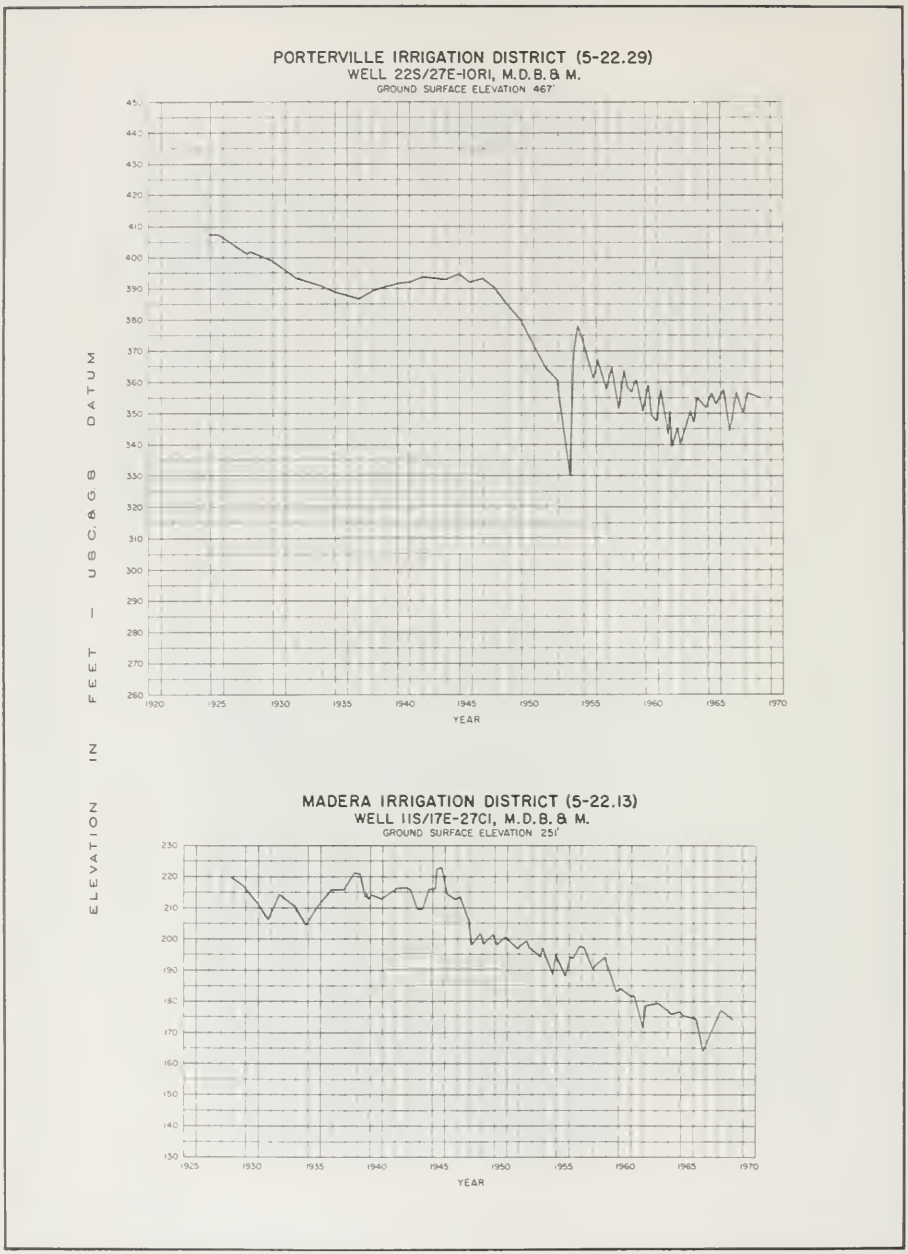




ELEVATION IN FEET — U.S.C.&G.S. DATUM

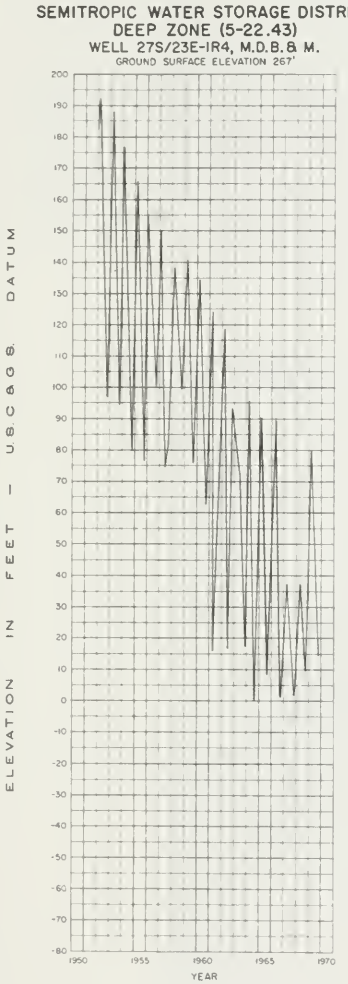
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

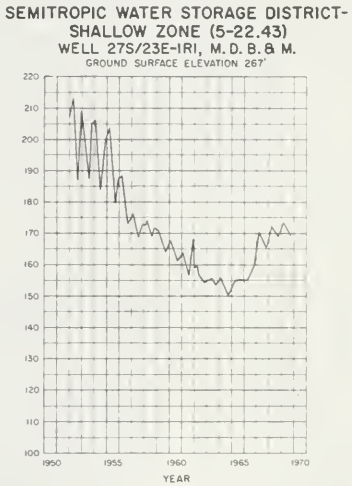
Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

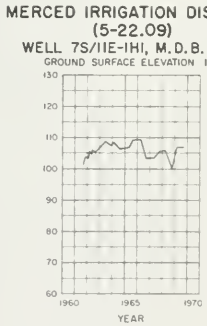


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

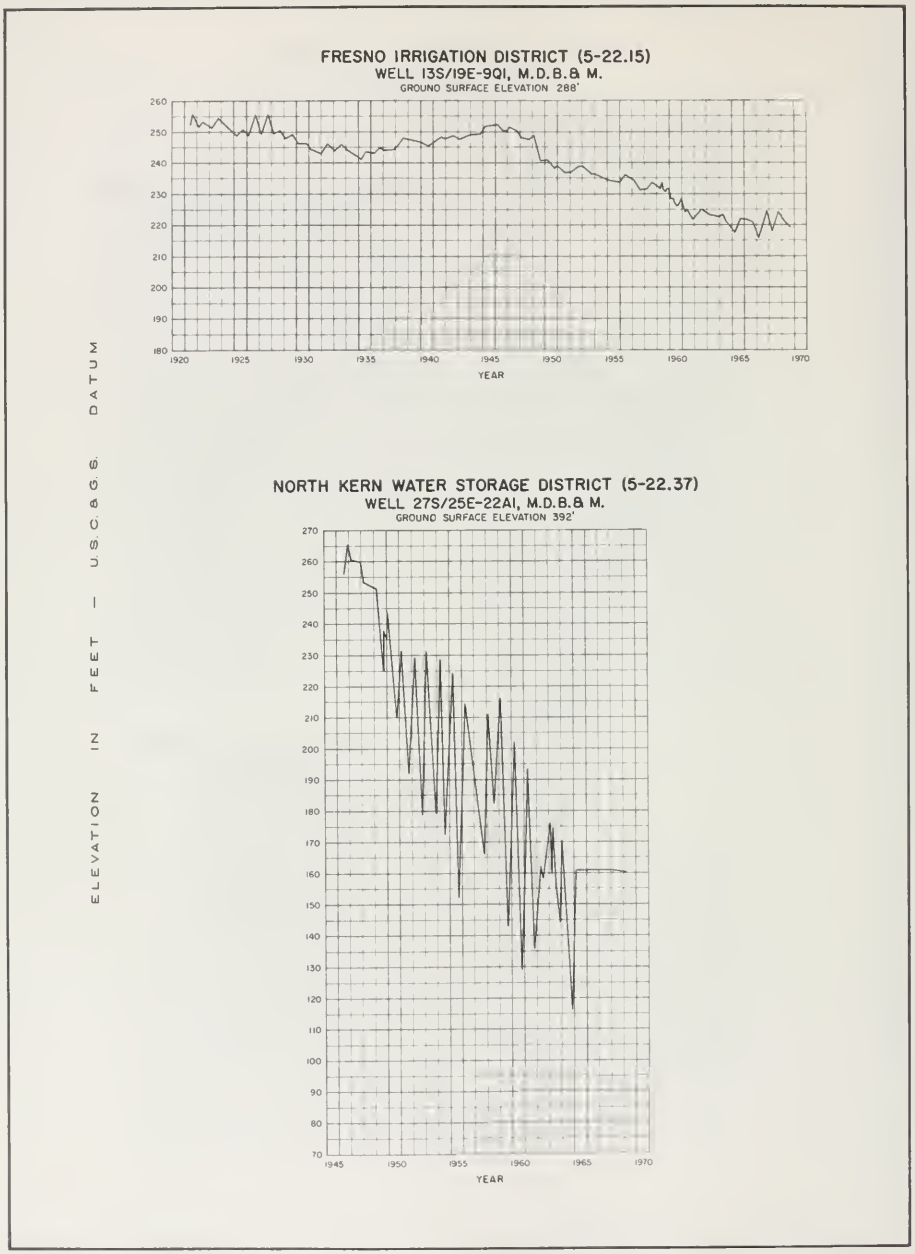






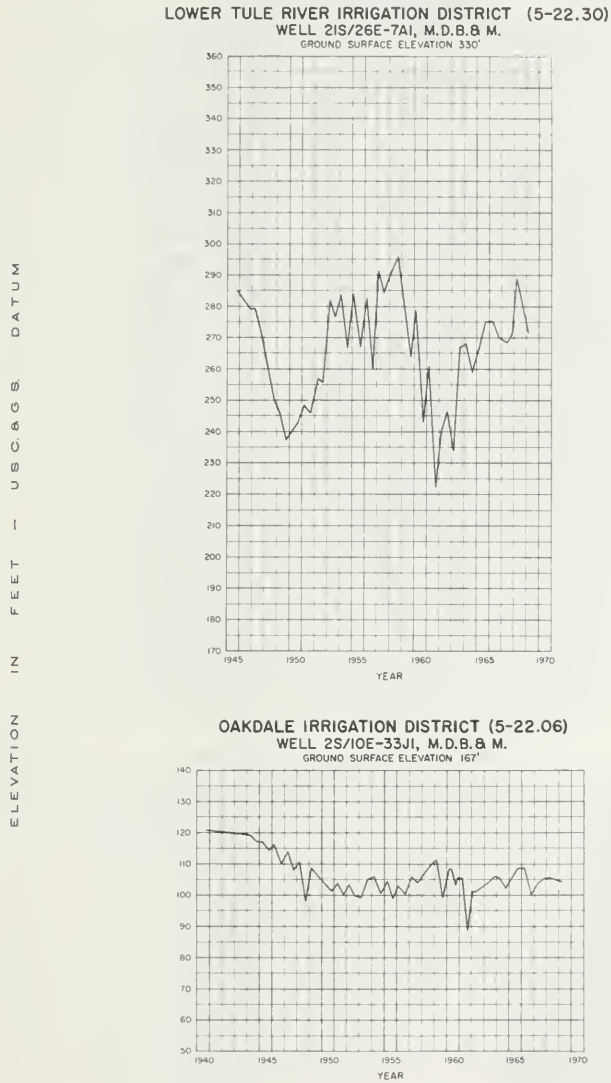
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



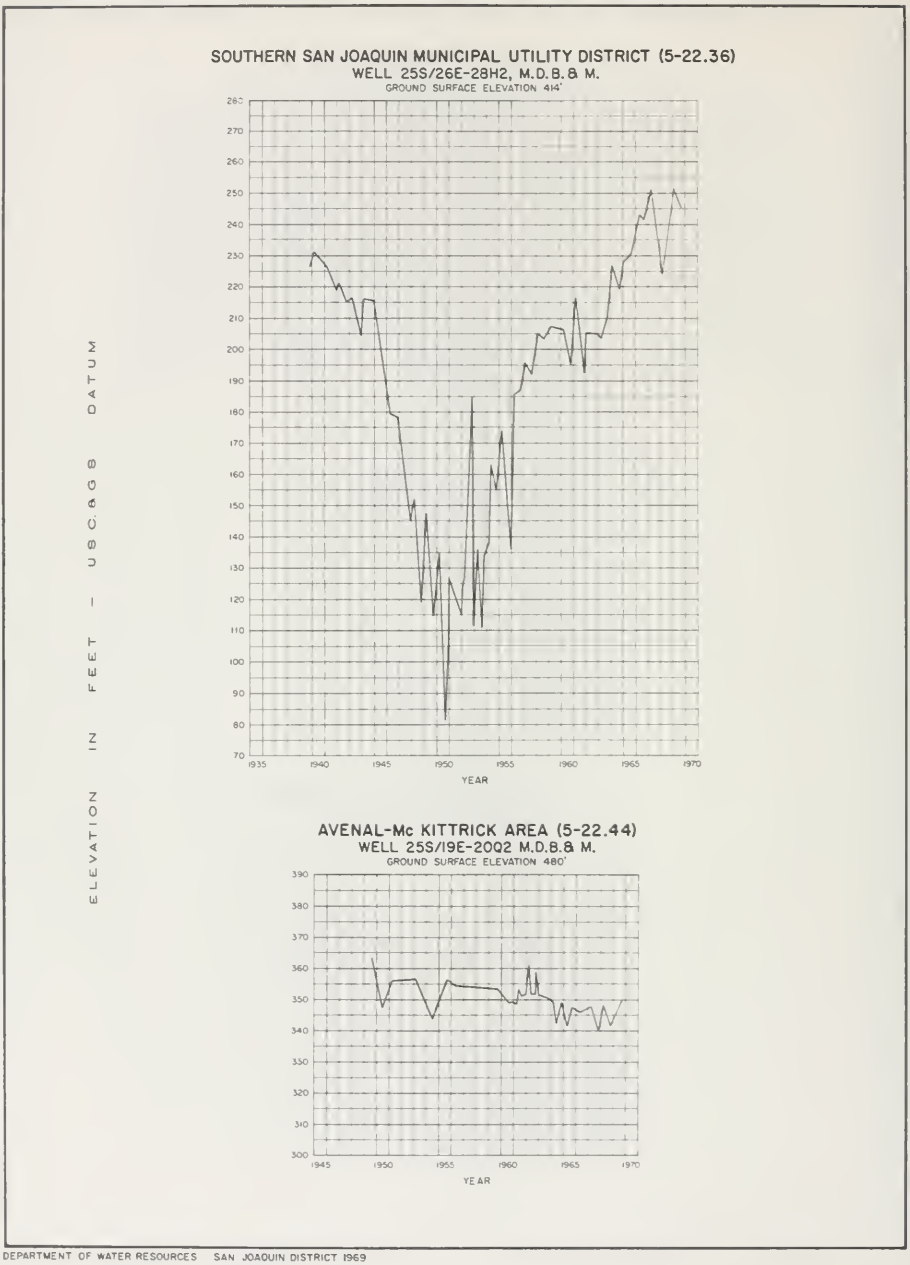
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



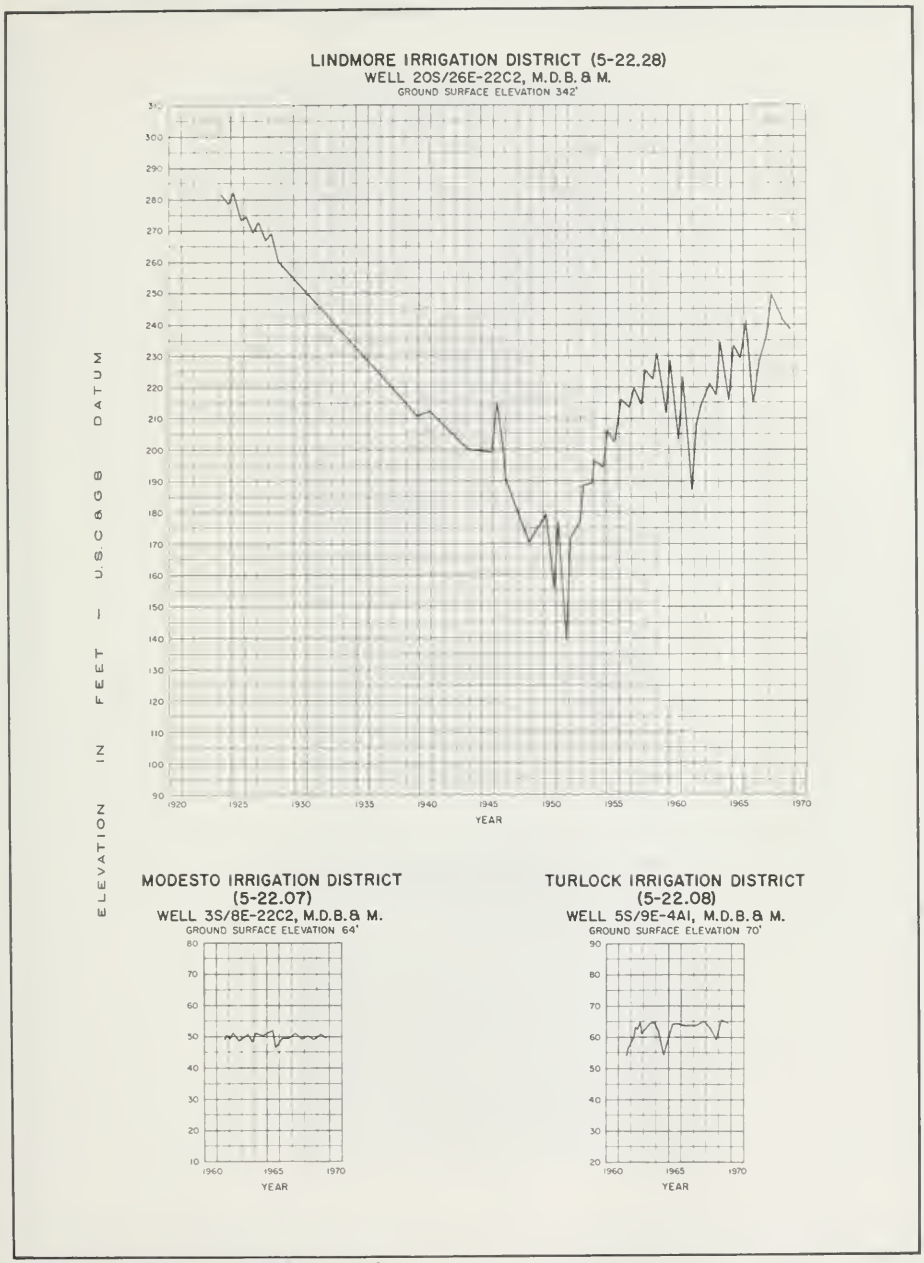
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



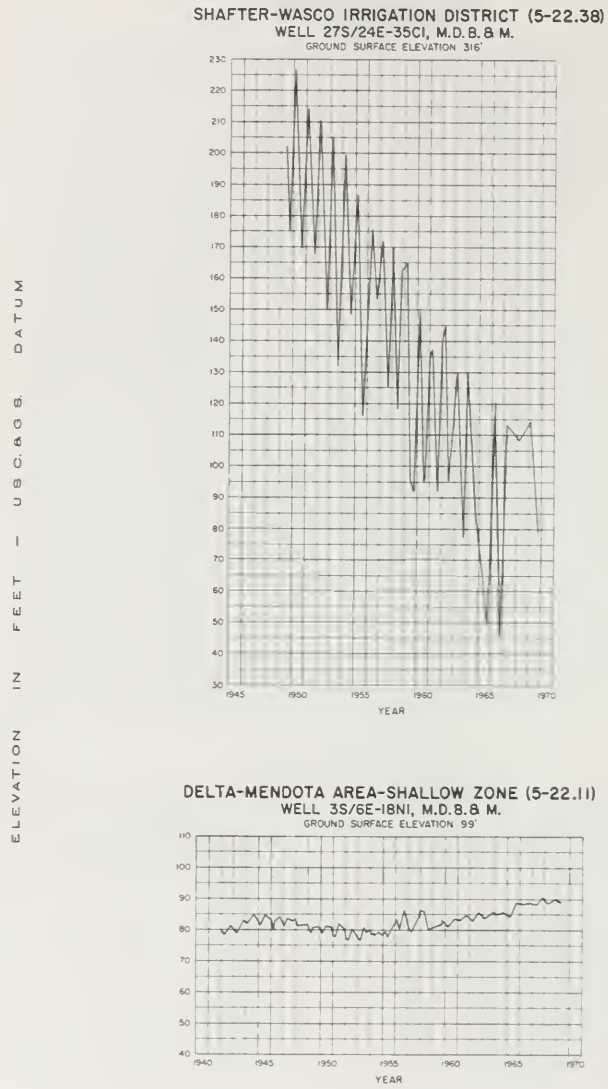
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



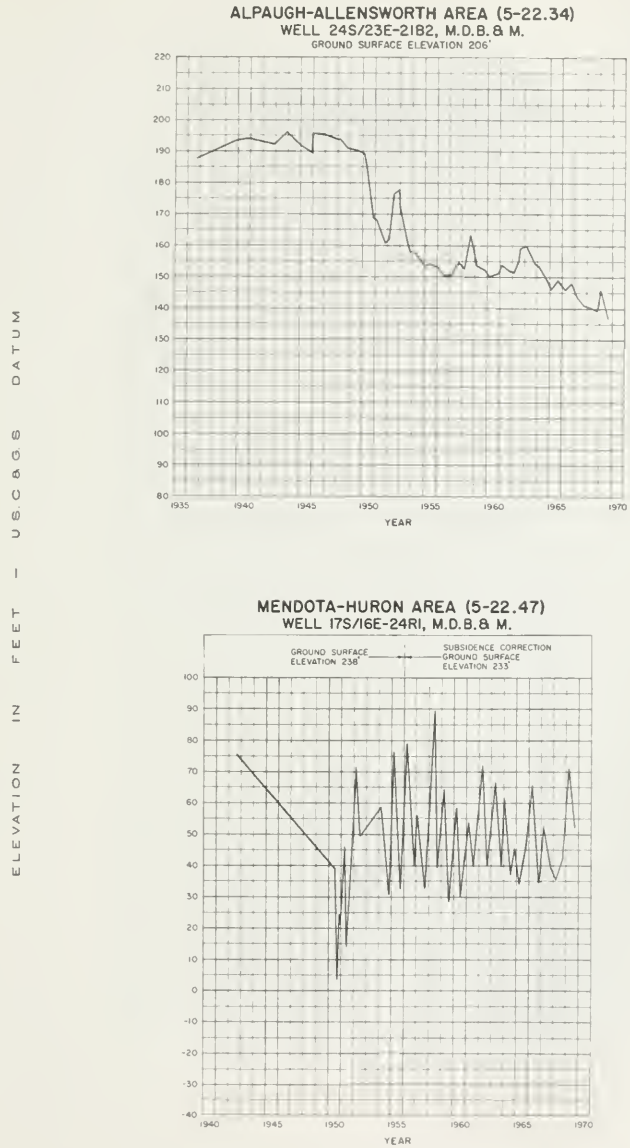
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



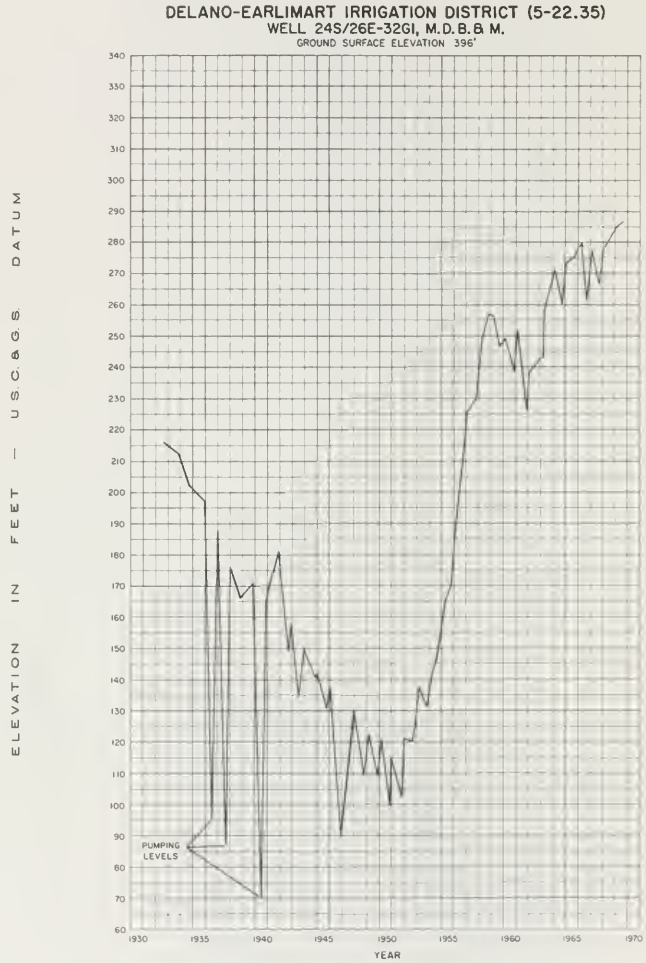
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

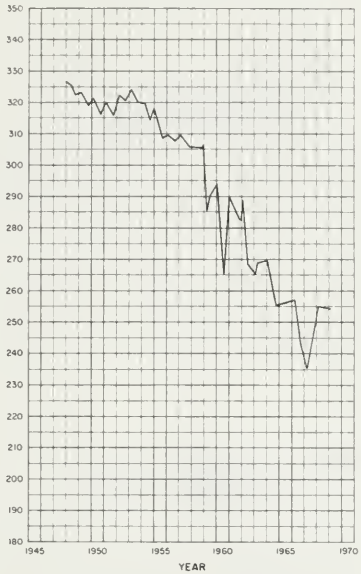


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

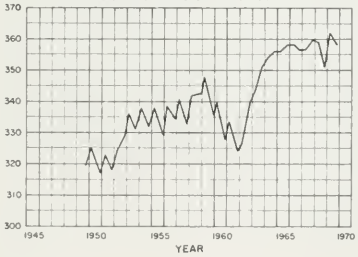
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - USC&GS. DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B.& M.
GROUND SURFACE ELEVATION 339'

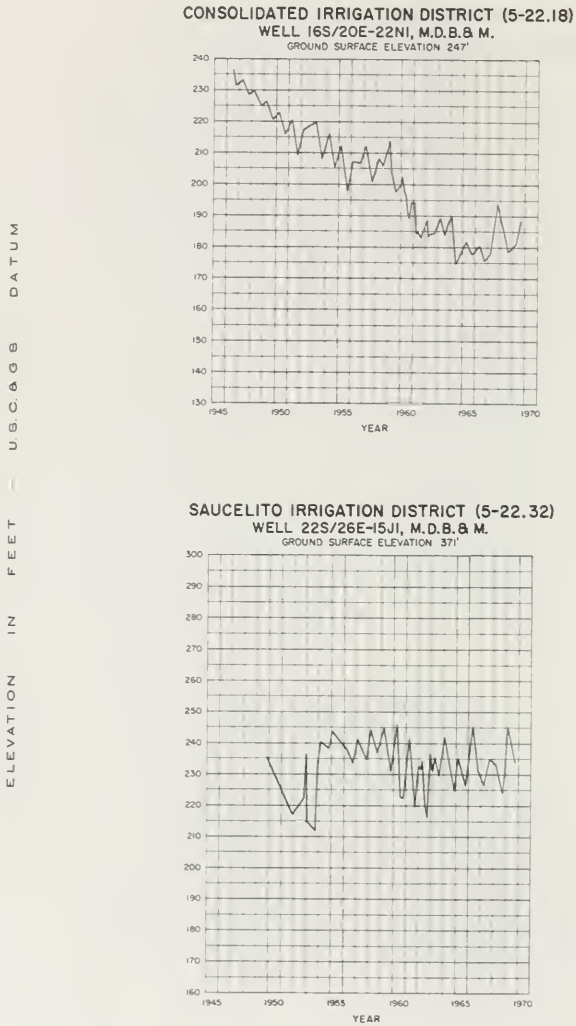


STONE CORRAL
IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B.& M.
GROUND SURFACE ELEVATION 364'



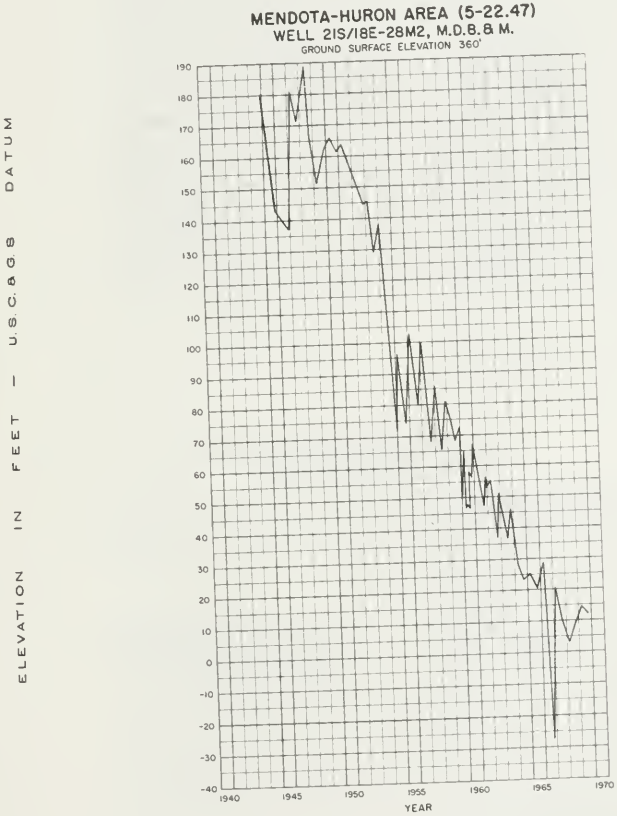
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



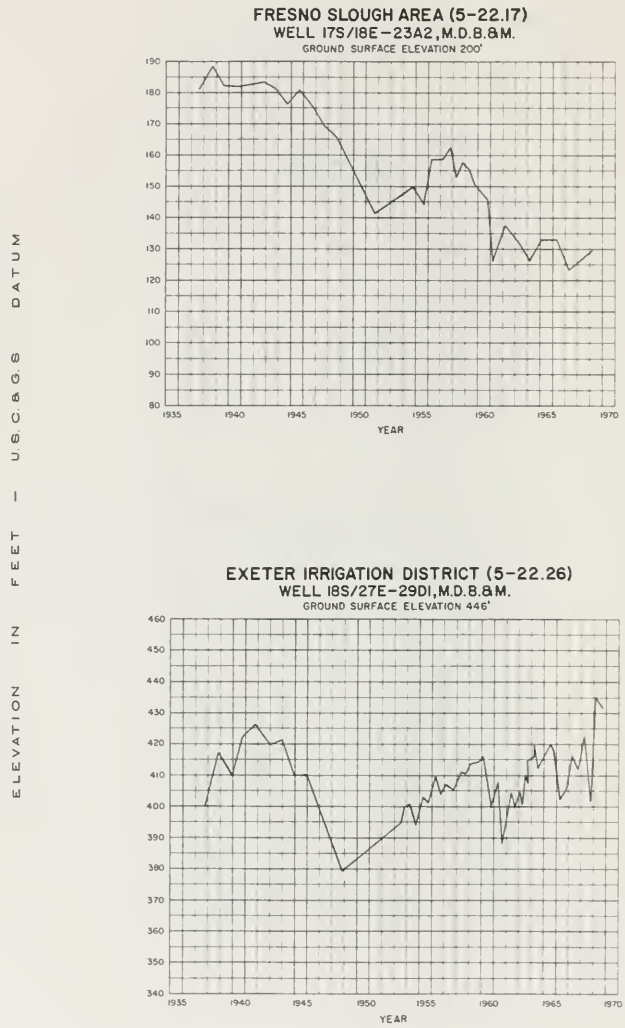
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



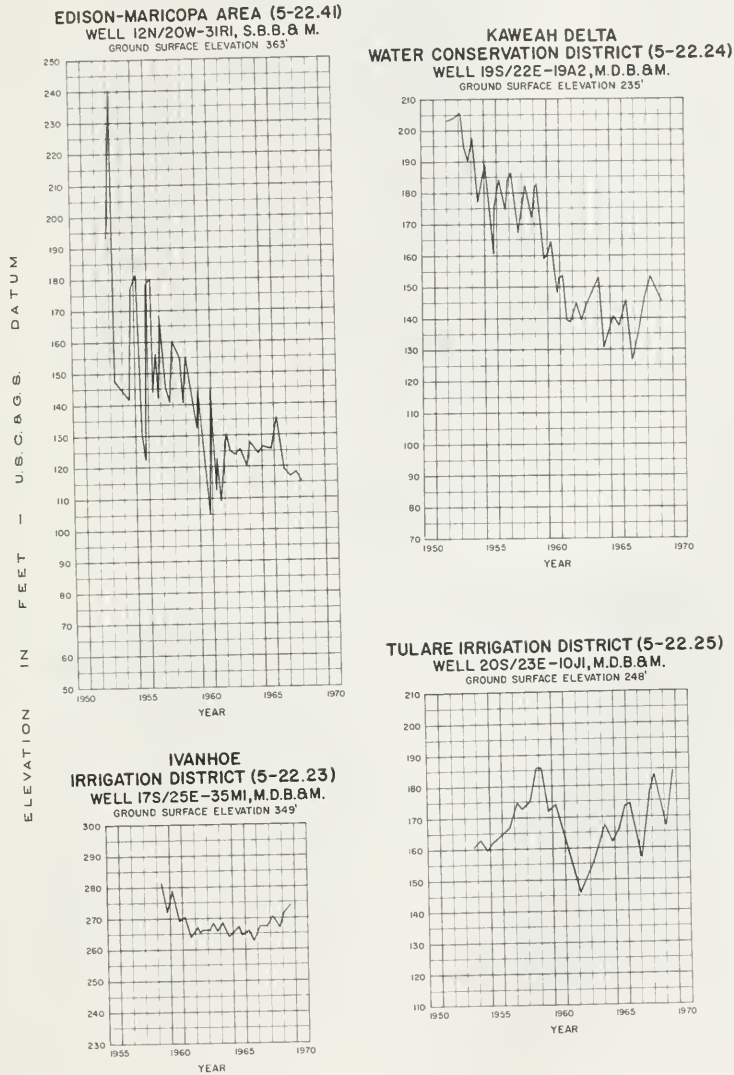
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



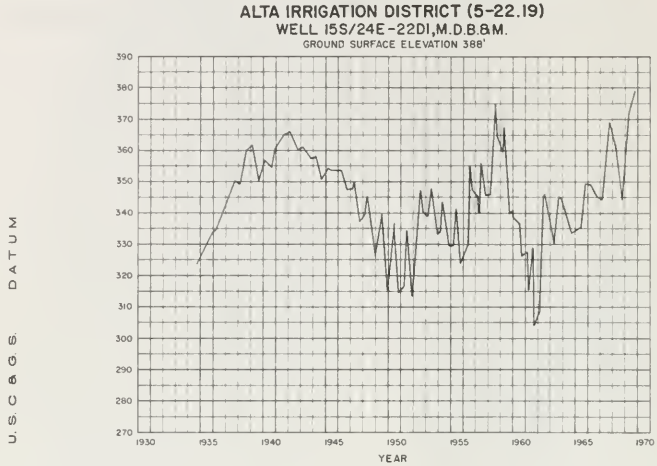
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

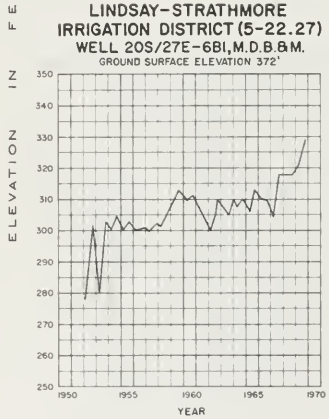
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

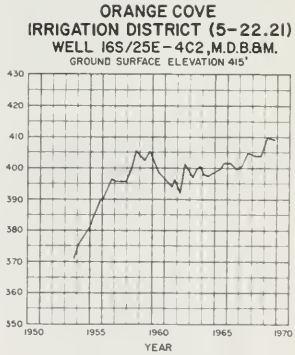


DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



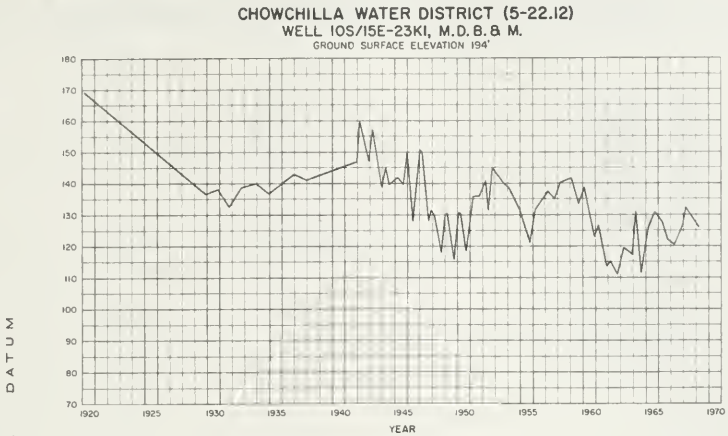


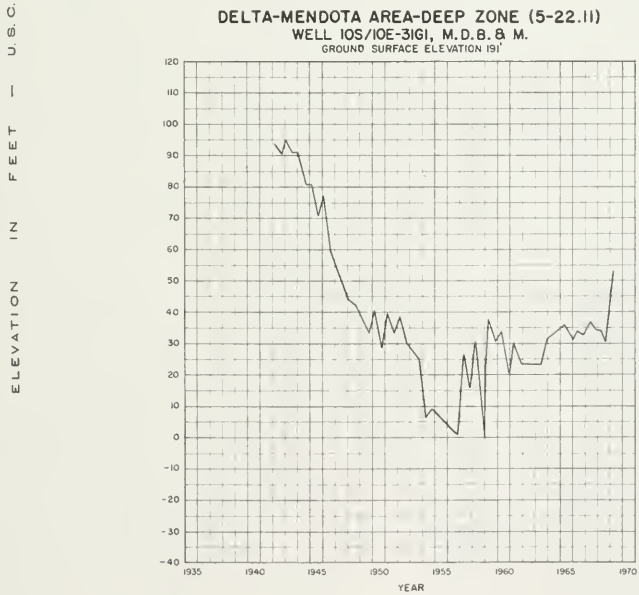


ELEVATION IN FEET — U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS





ELEVATION IN FEET — U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1969

TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1968 - Spring 1969

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Tracy Area	5-22.04	10	+ 3.0
Oakdale Irrigation District	5-22.06		- 1.5
Modesto Irrigation District	5-22.07		- 0.4
Turlock Irrigation District	5-22.08		+ 3.5
Merced Irrigation District	5-22.09		+ 5.7
El Nido Irrigation District	5-22.10		+ 6.7
Delta-Mendota Area	5-22.11	411	+ 2.7
Chowchilla Water District	5-22.12		- 4.5
Madera Irrigation District	5-22.13		- 3.0
West Chowchilla-Madera Area	5-22.14		- 0.2
Fresno Irrigation District	5-22.15		- 0.3
City of Fresno	5-22.16	58	- 0.8
Fresno Slough Area	5-22.17		- 2.8
Consolidated Irrigation District	5-22.18		- 1.9
Alta Irrigation District	5-22.19		+ 4.0
Lower Kings River Area	5-22.20		
Shallow Zone			+ 1.5
Deep Zone			-15.3
Orange Cove Irrigation District	5-22.21	93	+ 1.8
Stone Corral Irrigation District	5-22.22	9	+ 1.5
Ivanhoe Irrigation District	5-22.23		- 1.8
Kaweah-Delta Water Conservation District	5-22.24		- 5.2
Tulare Irrigation District	5-22.25		- 7.8
Exeter Irrigation District	5-22.26		+ 1.0
Lindsay-Strathmore Irrigation District	5-22.27	19	- 0.1
Lindmore Irrigation District	5-22.28		- 7.2
Porterville Irrigation District	5-22.29		- 2.5
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			- 3.2
Deep Zone			+ 0.7
Vandalia Irrigation District	5-22.31	5	- 1.8
Saucelito Irrigation District	5-22.32		
Shallow Zone			- 9.2
Deep Zone			- 6.2
Pixley Irrigation District	5-22.33		
Shallow Zone			- 4.7
Deep Zone			- 3.4

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1968 - Spring 1969

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			+ 2.5
Deep Zone			- 7.9
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			- 6.0
Deep Zone			- 5.0
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			- 3.0
Deep Zone			-11.4
North Kern Water Storage District	5-22.37		
Shallow Zone			- 5.7
Deep Zone			+ 2.6
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			+ 2.4
Deep Zone			- 1.0
City of Bakersfield	5-22.39	21	+ 0.1
Kern River Delta Area	5-22.40		
Shallow Zone			- 5.3
Deep Zone			- 1.4
Edison-Maricopa Area	5-22.41		
Deep Zone			- 4.0
Buena Vista Water Storage District	5-22.42		+ 7.1
Semitropic Water Storage District	5-22.43		
Shallow Zone			- 4.5
Deep Zone			+ 3.0
Avenal-McKittrick Area	5-22.44	No measurements made spring 1969.	
Tulare Lake-Lost Hills Area	5-22.45	3	-19.0
Corcoran Irrigation District	5-22.46		
Shallow Zone			- 2.0
Deep Zone			-18.4
Mendota-Huron Area	5-22.47		
Deep Zone			+13.8[b]
Poso Soil Conservation District	5-22.48		+ 0.8
San Luis Canal Company	5-22.49		+ 4.2
Terra Bella Irrigation District	5-22.50	3	- 0.1
Merced Bottoms	5-22.54		+ 5.1
Centerville Bottoms Area	5-22.64		0.0
Garfield Water District	5-22.65	21	+ 2.6

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1968 - Spring 1969

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Kings County Water District	5-22.66		
Shallow Zone			- 2.7
Deep Zone			-11.3
Pleasant Valley Area	5-22.69	6	+ 9.7

a/ Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.
b/ Average change determined from water level measurements made during December 1967 and December 1968.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1969
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51[a] in feet	Net change in water level 1951-69[b] in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1[c]	- 19.0
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 17.4
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 1.8
Centerville Bottoms	18.1	-----	+ 1.0	- 0.9
Alta	190.9	Alta Irrigation District	- 17.2[c]	+ 9.5
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 29.0
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	- 3.7
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 10.7
Tulare	121.1	Tulare Irrigation District	- 59.1	- 0.9
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	- 0.7
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 62.1
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 30.3
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	- 1.2[e] + 1.2[f]
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 16.6[e] - 50.4[f]
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 13.7[e] + 5.2[f]
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 2.9[e] - 20.9[f]
Rosedale	78.9	-----	- 36.3	- 58.8 - 6.6[g]
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9[d]	- 22.3[f]

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1969.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1969, only one aquifer reported prior to 1961.
f/ Pressure surface, spring 1961 to spring 1969, only one aquifer reported prior to 1961.
g/ Pressure surface, spring 1963 to spring 1969, only one aquifer reported prior to 1963.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 151.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT

0. Measurement discontinued	5. Unable to locate well
1. Pumping	6. Well has been destroyed
2. Pump house locked	7. Special
3. Tape hung up	8. Casing leaking or wet
4. Can't get tape in casing	9. Temporarily inaccessible

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

Agency Code	Agency
5000	U. S. Geological Survey
5001*	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5129	Kings County Water District
5200	City of Fresno
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5527	El Nido Irrigation District
5528	Chowchilla Water District
5529	Poso Soil Conservation District
5608	Porterville Irrigation District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5644	Arvin-Edison Water Storage District
5700	Kern County Land Company

*A large amount of data listed under this agency code has been gathered by irrigation and water districts and compiled by the Bureau of Reclamation for transmittal to the Department of Water Resources.

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CENTRAL VALLEY REGION					
SAN JOAQUIN VALLEY			5-22.00		
OAKDALE IRRIGATION DISTRICT			5-22.06		
1S/09E-16J01 M	119.0	10-01-68	64.7	54.3	5520
		11-01-68	63.3	55.7	
		12-02-68	63.0	56.0	
		1-02-69	62.8	56.2	
		2-03-69	62.5	56.5	
		3-03-69	62.2	56.8	
		4-01-69	61.6	57.4	
		5-01-69	62.3	56.7	
		6-02-69	63.9	55.1	
		7-01-69	64.5	54.5	
		8-01-69	64.6	54.4	
		9-02-69	64.2	54.8	
1S/09E-36A01 M	145.0	3-00-69	53.3	91.7	5520
1S/10E-19L01 M	146.5	10-01-68	61.5	85.0	5520
		11-01-68	56.5	90.0	
		12-02-68	56.0	90.5	
		1-02-69	55.8	90.7	
		2-03-69	55.8	90.7	
		3-03-69	55.4	91.1	
		4-01-69	55.0	91.5	
		5-01-69	55.3	91.2	
		6-02-69	56.3	90.2	
		7-01-69	54.8	91.7	
		8-01-69	54.7	91.8	
		9-02-69	54.0	92.5	
1S/10E-28J01 M	193.0	3-00-69	84.9	108.1	5520
2S/09E-26F01 M	132.0	10-01-68	58.0	74.0	5520
		11-01-68	54.5	77.5	
		12-02-68	54.2	77.8	
		1-02-69	54.0	78.0	
		2-03-69	51.2	80.8	
		3-03-69	50.9	81.1	
		4-01-69	51.1	80.9	
		5-01-69	52.8	79.2	
		6-02-69	52.8	79.2	
		7-01-69	51.9	80.1	
		8-01-69	NM-1		
		9-02-69	53.0	79.0	
2S/10E-04H01 M	185.5	10-01-68	NM-1		5520
		11-01-68	80.5	105.0	
		12-02-68	79.1	105.4	
		1-02-69	78.6	106.9	
		2-03-69	78.2	107.3	
		3-03-69	77.3	108.2	
		4-01-69	76.9	108.6	
		5-01-69	77.5	108.0	
		6-02-69	78.0	107.5	
		7-01-69	78.4	107.1	
		8-01-69	78.8	106.7	
		9-02-69	78.3	107.2	
2S/10E-33J01 M	165.0	3-00-69	61.0	104.0	5520
2S/11E-29B01 M	218.0	10-01-68	97.6	120.4	5520
		11-01-68	95.4	122.6	
		12-02-68	94.0	124.0	
		1-02-69	93.1	124.9	
		2-03-69	92.6	125.4	
		3-03-69	91.8	126.2	
		4-01-69	91.4	126.6	
		5-01-69	93.7	124.3	
		6-02-69	95.0	123.0	
		7-01-69	94.7	123.3	
		8-01-69	96.2	121.8	
		9-02-69	96.0	122.0	
2S/11E-31N01 M	192.0	3-00-69	76.2	115.8	5520
2S/12E-31K01 M	190.0	3-00-69	42.1	147.9	5520
3S/10E-15A01 M	152.0	10-01-68	55.4	96.6	5520
		11-01-68	52.8	99.2	
		12-02-68	50.4	101.6	
		1-02-69	49.3	102.7	
		2-03-69	48.5	103.5	
		3-03-69	47.5	104.5	
		4-01-69	46.7	105.3	
		5-01-69	47.1	104.9	
		6-02-69	49.8	102.2	
		7-01-69	NM-1		
		8-01-69	NM-1		
		9-02-69	49.4	102.6	
3S/11E-18D01 M	162.0	3-00-69	55.1	106.9	5520
MODESTO IRRIGATION DISTRICT			5-22.07		
2S/08E-25F01 M	94.0	3-03-69	31.5	62.5	5521
2S/09E-30P01 M	93.0	10-04-68	30.0	63.0	5050
		11-01-68	32.7	60.3	
		12-03-68	31.0	62.0	
		1-02-69	31.4	61.6	
		2-06-69	26.4	66.6	
		3-03-69	24.2	68.8	
		4-02-69	24.2	68.8	
		5-06-69	18.5	74.5	
		6-02-69	17.9	75.1	
MODESTO IRRIGATION DISTRICT			5-22.07		
2S/09E-30P01 M (Cont.)	93.0	7-07-69	18.8	74.2	5050
		8-04-69	19.8	73.2	
		9-02-69	21.6	71.4	
2S/09E-31G01 M	100.3	3-03-69	33.0	67.3	5521
3S/07E-12C01 M	47.0	10-04-68	7.1	39.9	5050
		11-01-68	9.2	37.8	
		12-03-68	10.1	36.9	
		1-02-69	10.2	36.8	
		2-06-69	8.4	38.6	
		3-03-69	6.1	40.9	
		4-02-69	5.0	42.0	
		5-06-69	3.1	43.9	
		6-02-69	4.3	42.7	
		7-07-69	4.2	42.8	
		8-04-69	4.2	42.8	
		9-02-69	5.2	41.8	
3S/07E-35A02 M	40.0	10-09-68	5.4	34.6	5050
		11-01-68	5.0	35.0	
		12-03-68	5.0	35.0	
		1-02-69	4.9	35.1	
		2-06-69	2.8	37.2	
		3-03-69	1.3	38.7	
		4-02-69	3.2	36.8	
		5-06-69	2.5	37.5	
		6-02-69	3.1	36.9	
		7-07-69	3.3	36.7	
		8-04-69	2.9	37.1	
		9-02-69	3.6	36.4	
3S/08E-03A02 M	73.0	10-04-68	24.5	48.5	5050
		11-01-68	23.9	49.1	
		12-03-68	23.6	49.4	
		1-02-69	23.6	49.4	
		2-06-69	23.2	49.8	
		3-03-69	23.1	49.9	
		4-02-69	21.0	52.0	
		5-06-69	20.7	52.3	
		6-02-69	19.4	53.6	
		7-07-69	19.6	53.4	
		8-04-69	18.7	54.3	
		9-02-69	18.4	54.6	
3S/08E-22C02 M	64.0	10-09-68	16.5	47.5	5050
		11-01-68	16.3	47.7	
		12-03-68	15.4	48.6	
		1-02-69	15.1	48.9	
		2-06-69	14.5	49.5	
		3-03-69	13.3	50.7	
		4-02-69	12.4	51.6	
		5-06-69	11.4	52.6	
		6-02-69	12.2	51.8	
		7-07-69	13.2	50.8	
		8-04-69	13.8	50.2	
		9-02-69	14.3	49.7	
3S/08E-24C02 M	74.0	3-03-69	24.1	49.9	5521
3S/09E-08D01 M	92.5	3-03-69	26.4	66.1	5521
3S/09E-11M01 M	99.0	3-03-69	19.3	79.7	5521
3S/09E-21A01 M	99.2	3-03-69	42.0	57.2	5521
3S/09E-26F01 M	100.0	10-04-68	45.5	54.5	5050
		11-01-68	45.8	54.2	
		12-03-68	45.4	54.6	
		1-02-69	45.9	54.1	
		2-06-69	43.9	56.1	
		3-04-69	43.8	56.2	
		4-02-69	43.9	56.1	
		5-01-69	43.6	56.4	
		6-01-69	43.0	57.0	
		7-01-69	42.5	57.5	
		8-01-69	42.2	57.8	
		9-01-69	42.0	58.0	
3S/10E-06G01 M	133.1	3-03-69	38.2	94.9	5521
3S/10E-29K01 M	119.2	3-03-69	45.8	73.4	5521
3S/10E-32G01 M	123.0	3-03-69	55.4	67.6	5521
3S/10E-33E01 M	120.0	10-04-68	57.9	62.1	5050
		11-01-68	57.2	62.8	
		12-03-68	57.2	62.8	
		1-02-69	56.3	63.7	
		2-06-69	53.7	66.3	
		3-04-69	52.7	67.3	
		4-02-69	53.6	66.4	
		5-01-69	53.7	66.3	
		6-01-69	52.4	67.6	
		7-01-69	52.4	67.6	
		8-01-69	53.3	66.7	
		9-01-69	53.7	66.3	
4S/08E-03F01 M	63.0	3-09-69	19.0	44.0	5521
TURLOCK IRRIGATION DISTRICT			5-22.08		
4S/08E-22R01 M	55.0	10-09-68	8.0	47.0	5050
		11-01-68	8.0	47.0	
		12-03-68	8.7	46.3	
		1-06-69	10.1	44.9	
		2-06-69	9.1	45.9	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TURLOCK IRRIGATION DISTRICT		5-22.08			
4S/08E-22R01 M (Cont.)	55.0	3-04-69	8.5	46.5	5050
		4-02-69	9.2	45.8	
		5-01-69	8.0	47.0	
		6-01-69	8.4	46.6	
		7-01-69	7.0	48.0	
		8-01-69	6.9	48.1	
		9-01-69	6.2	48.8	
4S/08E-27D01 M	55.0	3-05-69	8.6	46.4	5524
4S/09E-21N01 M	75.0	3-04-69	8.2	66.8	5524
4S/10E-21R01 M	109.0	3-05-69	8.0	101.0	5524
4S/11E-29N01 M	131.0	3-05-69	11.1	120.2	5524
4S/11E-31R01 M	128.6	3-05-69	7.8	120.8	5524
5S/08E-01N01 M	53.0	3-05-69	2.3	50.7	5524
5S/08E-10A01 M	49.7	3-05-69	9.0	40.7	5524
5S/09E-04A01 M	70.0	10-09-68	9.8	60.2	5050
		11-06-68	8.8	61.2	
		12-04-68	8.6	61.4	
		1-06-69	7.6	62.4	
		2-06-69	5.9	64.1	
		3-05-69	4.2	65.8	
		4-02-69	6.0	64.0	
		5-06-69	4.8	65.2	
		6-02-69	4.5	65.5	
		7-09-69	4.9	65.1	
		8-04-69	5.3	64.7	
		9-02-69	5.4	64.6	
5S/09E-14R01 M	75.0	3-05-69	2.3	72.7	5524
5S/09E-24N01 M	75.0	3-05-69	2.0	73.0	5524
5S/09E-28A01 M	63.4	3-05-69	2.6	60.8	5524
5S/09E-34J01 M	64.0	10-09-68	14.7	49.3	5050
		11-06-68	6.2	57.8	
		12-04-68	6.5	57.5	
		1-06-69	5.3	58.7	
		2-06-69	7.4	56.6	
		3-05-69	10.6	53.4	
		4-02-69	13.2	50.8	
		5-06-69	12.7	51.3	
		6-02-69	13.7	50.3	
		7-09-69	14.4	49.6	
		8-04-69	13.2	50.8	
		9-02-69	12.9	51.1	
5S/10E-19R01 M	82.9	3-03-69	0.4	82.5	5524
5S/10E-21R01 M	92.0	3-03-69	3.0	89.0	5524
5S/11E-06J02 M	124.0	10-07-68	15.8	108.2	5050
		11-06-68	13.7	110.3	
		12-05-68	11.6	112.4	
		1-07-69	14.6	109.4	
		2-06-69	NM-7		
		3-05-69	NM-7		
		4-03-69	8.4	115.6	
		5-06-69	5.6	118.4	
		6-03-69	7.4	116.6	
		7-07-69	8.6	115.4	
		8-06-69	9.4	114.6	
		9-03-69	9.9	114.1	
5S/11E-21N01 M	125.0	3-03-69	6.6	118.4	5524
5S/11E-30A01 M	117.0	3-03-69	12.3	104.7	5524
5S/11E-33N01 M	115.5	3-03-69	5.1	110.4	5524
6S/09E-15R01 M	60.0	3-04-69	1.7	58.3	5524
6S/10E-21A01 M	85.6	3-03-69	2.9	82.7	5524
6S/10E-28D01 M	83.6	3-04-69	9.8	73.8	5524
6S/11E-06N01 M	106.2	3-03-69	9.6	96.6	5524
6S/11E-08R01 M	115.0	3-03-69	11.3	103.7	5524
MERCED IRRIGATION DISTRICT		5-22.09			
6S/12E-22N01 M	150.0	9-10-69	20.2	129.8	5050
6S/14E-32N01 M	178.1	3-00-69	6.0	172.1	5525
7S/10E-01N01 M	90.7	3-00-69	7.8	82.9	5525
7S/11E-01H01 M	118.0	11-06-68	14.4	103.6	5050
		12-11-68	14.1	103.9	
		1-02-69	14.5	103.5	
		1-30-69	13.2	104.8	
		3-05-69	11.1	106.9	
		4-04-69	12.0	106.0	
		5-01-69	13.5	104.5	
		6-02-69	11.5	106.5	
		7-01-69	12.3	105.7	
		8-12-69	14.0	104.0	
		9-10-69	11.2	106.8	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED IRRIGATION DISTRICT (Cont.)		5-22.09			
7S/11E-13N01 M	106.6	3-03-69	6.2	100.4	5525
7S/12E-12D01 M	144.0	11-06-68	16.5	127.5	5050
		12-11-68	16.6	127.4	
		1-02-69	16.7	127.3	
		1-30-69	14.1	129.9	
		3-05-69	12.3	131.7	
		4-04-69	12.2	131.8	
		5-01-69	12.1	131.9	
		6-02-69	11.5	132.5	
		7-01-69	9.6	134.4	
		8-12-69	8.7	135.3	
		9-10-69	9.2	134.8	
7S/12E-12R01 M	147.3	3-03-69	Dry		5525
7S/13E-16N01 M	151.9	3-03-69	11.0	140.9	5525
7S/13E-26D01 M	155.8	11-06-68	16.5	139.3	5050
		12-11-68	16.5	139.3	
		1-02-69	16.1	139.7	
		1-30-69	13.2	142.6	
		3-05-69	9.4	146.4	
		4-04-69	9.9	145.9	
		5-01-69	9.1	146.7	
		6-02-69	8.6	147.2	
		7-01-69	7.7	148.1	
		8-12-69	7.7	148.1	
		9-10-69	7.6	148.2	
7S/14E-11N01 M	192.0	9-10-69	11.9	180.1	5050
7S/14E-16R01 M	187.5	3-03-69	13.7	173.8	5525
8S/12E-01D01 M	120.2	3-03-69	NM-7		5525
8S/13E-09R01 M	135.0	3-03-69	0.6	134.4	5525
8S/14E-01A01 M	196.8	3-03-69	10.8	186.0	5525
8S/14E-10N01 M	172.6	9-10-69	5.8	166.8	5050
EL NIDO IRRIGATION DISTRICT		5-22.10			
9S/13E-14H01 M	133.0	2-27-69	80.0	53.0	5527
9S/14E-20B01 M	152.0	2-27-69	62.0	90.0	5527
DELTA-MENDOTA AREA		5-22.11			
3S/05E-23M01 M	167.0	10-01-68	140.4	26.6	5050
		11-04-68	133.7	33.7	
		12-02-68	131.7	35.3	
		1-03-69	128.2	38.8	
		2-06-69	NM-7		
		3-06-69	122.8	44.2	
		4-09-69	121.1	45.9	
		5-05-69	NM-0		
4S/06E-04N01 M	193.0	10-01-68	167.1	25.9	5050
		11-04-68	162.7	30.3	
		12-02-68	156.6	36.4	
		1-03-69	156.4	36.6	
		2-06-69	NM-7		
		3-06-69	141.4	51.6	
		4-09-69	137.0	56.0	
		5-05-69	144.1	48.9	
		6-06-69	154.9	38.1	
		7-09-69	155.0	38.0	
		8-01-69	NM-7		
		9-05-69	166.0	27.0	
4S/06E-09R01 M	166.3	10-18-68	130.5	35.8	5001
		3-19-69	104.7	61.6	
4S/07E-27M01 M	68.0	10-17-68	23.0	45.0	5001
		3-25-69	20.9	47.1	
5S/07E-13K01 M	107.0	10-16-68	NM-2		5001
		3-18-69	NM-2		
5S/07E-14D01 M	130.4	10-16-68	75.6	54.8	5001
		3-18-69	74.0	56.4	
5S/07E-23L01 M	138.0	10-01-68	88.4	49.6	5050
		11-04-68	NM-9		
		12-02-68	83.6	54.4	
		1-03-69	83.2	54.8	
		2-06-69	NM-7		
		3-06-69	92.6	45.4	
		4-09-69	NM-9		
		5-05-69	89.2	48.8	
		6-06-69	83.2	54.8	
		7-01-69	NM-7		
		8-01-69	NM-7		
		9-05-69	91.0	47.0	
5S/08E-32K01 M	90.9	10-16-68	6.8	84.1	5001
		3-18-69	4.0	86.9	
6S/07E-12P01 M	248.3	10-07-68	14.4	233.9	5050
		3-17-69	9.5	238.8	
6S/08E-10H02 M	80.0	10-07-68	29.2	50.8	5050
		3-17-69	18.4	61.6	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA (Cont.)			5-22.11		
6S/08E-16M01 M	129.5	10-07-68	60.4	69.1	5050
		3-17-69	54.9	74.6	
6S/08E-21R02 M	133.0	10-01-68	62.3	70.7	5050
		11-04-68	67.7	65.3	
		12-02-68	60.8	72.2	
		1-03-69	67.0	66.0	
		2-06-69	NM-7		
		3-06-69	57.4	75.6	
		4-09-69	60.8	72.2	
		5-05-69	66.2	66.8	
		6-06-69	65.1	67.9	
		7-07-69	NM-7		
		8-06-69	NM-7		
		9-05-69	60.4	72.6	
6S/08E-27J01 M	114.5	10-07-68	49.0	65.5	5050
		3-17-69	42.0	72.5	
6S/08E-29J01 M	190.0	10-07-68	NM-4		5050
		3-17-69	NM-4		
7S/08E-22L01 M	127.9	10-08-68	46.0	81.9	5050
		3-20-69	42.4	85.5	
7S/09E-04R01 M	65.6	10-08-68	18.2	47.4	5050
		3-20-69	0.9	64.7	
7S/09E-26N01 M	68.4	10-08-68	8.4	60.0	5050
		3-18-69	0.6	67.8	
8S/08E-01N01 M	123.2	10-08-68	15.1	108.1	5050
		3-20-69	20.0	103.2	
8S/08E-15J01 M	172.8	10-08-68	53.0	119.8	5050
		3-20-69	26.7	146.1	
8S/09E-26H01 M	75.0	10-09-68	41.9	33.1	5050
		3-18-69	NM-9		
8S/09E-26H03 M	75.0	10-08-68	8.7	66.3	5050
		3-18-69	NM-9		
8S/10E-21L04 M	75.0	10-09-68	7.0	68.0	5050
		3-18-69	NM-9		
9S/08E-24A01 M	157.0	10-10-68	13.3	143.7	5050
		3-19-69	NM-4		
9S/09E-14N01 M	96.0	10-01-68	64.6	31.4	5050
		11-04-68	66.4	29.6	
		12-02-68	48.2	47.8	
		1-03-69	42.7	53.3	
		2-06-69	NM-7		
		3-06-69	35.2	60.8	
		4-09-69	34.3	61.7	
		5-05-69	32.6	63.4	
		6-03-69	NM-7		
		7-07-69	NM-7		
		8-05-69	NM-7		
		9-05-69	43.5	52.5	
9S/09E-18N01 M	153.6	10-08-68	32.4	121.2	5050
		3-19-69	16.0	137.6	
9S/09E-23L01 M	100.0	10-10-68	70.8	29.2	5050
		3-19-69	41.3	58.7	
9S/10E-19B01 M	84.0	10-09-68	3.1	80.9	5050
		3-18-69	NM-9		
9S/10E-23J01 M	87.0	10-09-68	58.4	28.6	5050
		3-18-69	39.7	47.3	
9S/11E-16H01 M	91.0	10-08-68	10.0	81.0	5050
		3-20-69	6.3	84.7	
9S/11E-20J01 M	90.5	10-09-68	43.2	47.3	5050
		3-20-69	38.6	51.9	
10S/09E-06A01 M	147.0	10-09-68	8.9	138.1	5050
		3-19-69	6.5	140.5	
10S/09E-08B01 M	167.0	10-09-68	72.0	95.0	5050
		3-20-69	59.0	108.0	
10S/10E-02R01 M	99.5	10-10-68	22.3	77.2	5050
		3-21-69	17.9	81.6	
10S/10E-11R01 M	106.6	10-10-68	22.5	84.1	5050
		3-21-69	19.2	87.4	
10S/10E-31Q01 M	191.1	10-01-68	160.8	30.3	5050
		11-04-68	154.8	36.3	
		12-02-68	163.3	27.8	
		1-03-69	159.7	31.4	
		2-06-69	NM-7		
		3-06-69	137.7	53.4	
		4-09-69	137.1	54.0	
		5-05-69	139.0	52.1	
		6-03-69	NM-7		
		7-07-69	NM-7		
		8-05-69	NM-7		
		9-05-69	157.7	33.4	
10S/10E-32N01 M	189.5	10-10-68	145.9	43.6	5050
		3-21-69	131.0	58.5	
DELTA-MENDOTA AREA (Cont.)			5-22.11		
10S/11E-23D01 M	99.0	10-07-68	NM-6		5050
10S/11E-27E02 M	101.2	10-07-68	57.0	44.2	5050
		3-19-69	47.1	54.2	
11S/10E-11J01 M	157.3	10-09-68	55.8	101.5	5050
		3-19-69	47.7	109.6	
11S/10E-22Q01 M	246.8	10-08-68	142.8	104.0	5050
		3-18-69	108.5	138.3	
11S/11E-02J02 M	106.0	10-08-68	4.7	101.3	5050
		3-17-69	1.4	104.6	
11S/11E-22K01 M	114.2	10-08-68	3.8	110.4	5050
		3-18-69	1.5	112.7	
11S/11E-22Q03 M	114.0	10-08-68	12.6	101.4	5050
		3-18-69	14.7	99.3	
11S/12E-31C01 M	132.0	10-08-68	24.0	108.0	5050
		3-17-69	NM-9		
12S/12E-06D01 M	144.0	10-04-68	5.6	138.4	5001
12S/12E-25D01 M	177.0	10-10-68	62.6	114.4	5001
		3-17-69	57.6	119.4	
12S/12E-25D02 M	177.0	10-10-68	8.5	168.5	5001
		3-17-69	8.3	168.7	
12S/13E-10N01 M	144.0	10-10-68	2.8	141.2	5001
		3-17-69	2.0	141.4	
CHOWCHILLA WATER DISTRICT			5-22.12		
9S/14E-25R01 M	185.0	2-20-69	68.0	117.0	5001
9S/15E-22R02 M	216.5	10-25-68	117.5	99.0	5001
		11-21-68	110.2	106.3	
		12-24-68	94.2	122.3	
		1-21-69	NM-3		
		2-20-69	NM-0		
9S/15E-25J02 M	230.0	2-20-69	46.9	183.1	5001
9S/15E-27A01 M	216.5	2-20-69	95.4	121.1	5001
		3-27-69	87.1	129.4	
		4-23-69	87.8	128.7	
		5-22-69	NM-1		
		6-26-69	NM-1		
		7-28-69	NM-1		
		8-19-69	123.5	93.0	
		9-17-69	125.8	90.7	
9S/16E-22R01 M	267.0	10-25-68	44.0	223.0	5001
		11-21-68	43.2	223.8	
		12-24-68	43.3	223.7	
		1-21-69	43.9	223.1	
		2-20-69	39.0	228.0	
		3-27-69	41.3	225.7	
		4-23-69	36.9	230.1	
		5-22-69	41.5	225.5	
		6-26-69	41.0	226.0	
		7-28-69	41.6	225.4	
		8-19-69	41.2	225.8	
		9-16-69	41.2	225.8	
9S/17E-19L01 M	292.0	3-07-69	81.9	210.1	5528
9S/17E-35J01 M	320.0	2-17-69	88.2	231.8	5001
9S/18E-33Q01 M	365.0	2-17-69	58.3	306.7	5001
10S/14E-01A01 M	179.0	10-25-68	80.0	99.0	5001
		11-21-68	77.4	101.6	
		12-25-68	75.3	103.7	
		1-21-69	79.1	99.9	
		2-20-69	73.4	105.6	
		3-27-69	72.0	107.0	
		4-23-69	71.0	108.0	
		5-22-69	NM-1		
		6-26-69	NM-1		
		7-28-69	NM-1		
		8-19-69	NM-1		
		9-17-69	79.7	99.3	
10S/14E-01R02 M	177.0	2-28-69	70.4	106.6	5528
10S/14E-24R01 M	167.0	10-25-68	89.3	77.7	5001
		11-21-68	90.2	76.8	
		12-24-68	86.7	80.3	
		1-21-69	86.0	81.0	
		2-20-69	81.5	85.5	
		3-27-69	79.1	87.9	
		4-25-69	81.9	85.1	
		5-21-69	79.0	88.0	
		6-26-69	72.7	94.3	
		7-28-69	NM-1		
		8-19-69	80.0	87.0	
		9-17-69	77.7	89.3	
10S/15E-02Q01 M	212.5	10-25-68	NM-1		5001
		11-21-68	96.7	115.8	
		12-24-68	92.6	119.9	
		1-21-69	82.2	130.3	
		2-20-69	78.2	134.3	
		3-27-69	75.2	137.3	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CHOWCHILLA WATER DISTRICT			5-22.12		
10S/15E-02Q01 M (Cont.)	212.5	4-25-69	NM-1		
		5-21-69	88.0	124.5	5001
		6-26-69	101.7	110.8	
		7-28-69	102.8	109.7	
		8-19-69	113.7	98.8	
		9-17-69	104.7	107.8	
10S/15E-23K01 M	195.5	3-06-69	69.0	126.5	5001
10S/15E-27Q03 M	184.0	10-25-68	NM-1		5001
		11-21-68	80.3	103.7	
		12-24-68	78.7	105.3	
		1-21-69	80.8	103.2	
		2-20-69	73.7	110.3	
		3-27-69	71.2	112.8	
		4-25-69	69.7	114.3	
		5-21-69	71.6	112.4	
		6-26-69	NM-1		
		7-28-69	NM-1		
		8-19-69	76.5	107.5	
		9-17-69	72.7	111.3	
10S/16E-09E01 M	232.0	10-25-68	NM-1		5001
		11-21-68	85.7	146.3	
		12-24-68	81.5	150.5	
		1-21-69	80.7	151.3	
		2-20-69	77.2	154.8	
		3-27-69	76.5	155.5	
		4-25-69	76.5	155.5	
		5-21-69	NM-1		
		6-26-69	NM-1		
		7-28-69	NM-1		
		8-19-69	87.7	142.3	
		9-17-69	82.0	150.0	
10S/16E-29R01 M	209.5	2-19-69	78.2	131.3	5001
MADERA IRRIGATION DISTRICT			5-22.13		
10S/18E-20B01 M	326.0	2-17-69	72.7	253.3	5001
10S/19E-16D01 M	387.0	2-17-69	18.2	368.8	5001
11S/16E-06A01 M	196.0	10-29-68	73.9	122.1	5001
		11-26-68	71.7	124.3	
		12-27-68	70.0	126.0	
		1-30-69	68.5	127.5	
		2-26-69	69.0	127.0	
		3-28-69	63.8	132.2	
		4-28-69	64.2	131.8	
		5-28-69	63.8	132.2	
		6-27-69	64.8	131.2	
		7-30-69	66.5	129.5	
		8-29-69	65.2	130.8	
		9-29-69	63.9	132.1	
11S/16E-10N01 M	204.0	10-29-68	74.8	129.2	5001
		11-26-68	73.9	130.1	
		12-27-68	72.2	131.8	
		1-30-69	71.4	132.6	
		2-26-69	NM-9		
		3-28-69	63.4	140.6	
		4-28-69	61.1	142.9	
		5-28-69	60.6	143.4	
		6-27-69	61.3	142.7	
		7-30-69	62.7	141.3	
		8-29-69	63.0	141.0	
		9-29-69	62.0	142.0	
11S/17E-27C01 M	250.0	2-13-69	76.1	173.9	5001
11S/18E-20N01 M	272.5	2-10-69	83.7	188.8	5001
11S/18E-27M01 M	284.0	10-29-68	84.4	199.6	5001
		11-26-68	82.3	201.7	
		12-27-68	81.0	203.0	
		1-30-69	78.8	205.2	
		2-26-69	NM-9		
		3-28-69	82.8	201.2	
		4-28-69	82.3	201.7	
		5-28-69	83.2	200.8	
		6-27-69	84.1	199.9	
		7-30-69	82.6	201.4	
		8-29-69	81.5	202.5	
		9-29-69	79.1	204.9	
12S/16E-23A01 M	205.0	2-10-69	85.6	119.4	5001
12S/17E-08D01 M	230.0	10-29-68	88.1	141.9	5001
		11-26-68	85.1	144.9	
		12-27-68	83.3	146.7	
		1-30-69	79.2	150.8	
		2-26-69	79.8	150.2	
		3-28-69	78.2	151.8	
		4-28-69	79.4	150.6	
		5-28-69	80.2	149.8	
		6-27-69	82.5	147.5	
		7-30-69	84.9	145.1	
		8-29-69	83.5	146.5	
		9-29-69	81.7	148.3	
12S/17E-21H01 M	228.0	2-12-69	61.9	166.1	5001
12S/17E-26C01 M	235.0	10-29-68	65.1	169.9	5001
		11-26-68	61.8	173.2	
		12-27-68	60.4	174.6	
		1-30-69	56.3	178.7	
MADERA IRRIGATION DISTRICT			5-22.13		
12S/17E-26C01 M (Cont.)	235.0	2-26-69	60.8	174.2	5001
		3-28-69	60.3	174.7	
		4-28-69	66.7	168.3	
		5-28-69	65.4	169.6	
		6-27-69	64.1	170.9	
		7-30-69	69.0	166.0	
		8-29-69	71.7	163.3	
		9-29-69	69.2	165.8	
12S/17E-34R01 M	234.0	10-29-68	NM-1		5001
		11-26-68	55.8	178.2	
		12-27-68	54.2	179.8	
		1-30-69	52.1	181.9	
		2-26-69	54.2	179.8	
		3-28-69	57.5	176.5	
		4-28-69	54.5	179.5	
		5-28-69	54.7	179.3	
		6-27-69	55.4	178.6	
		7-30-69	58.2	175.8	
		8-29-69	56.5	177.5	
		9-29-69	55.2	178.8	
12S/18E-13R01 M	288.0	10-29-68	80.8	207.2	5001
		11-26-68	80.5	207.5	
		12-27-68	78.0	210.0	
		1-30-69	79.3	208.7	
		2-26-69	79.4	208.6	
		3-28-69	78.2	209.8	
		4-28-69	79.8	208.2	
		5-28-69	77.4	210.6	
		6-27-69	78.5	209.5	
		7-30-69	78.7	209.3	
		8-29-69	77.9	210.1	
		9-29-69	76.8	211.2	
12S/18E-21Q01 M	265.0	2-21-69	73.6	191.4	5001
12S/18E-21H01 M	267.0	10-29-68	75.3	191.7	5001
		11-26-68	72.3	194.7	
		12-27-68	70.3	196.7	
		1-30-69	63.0	204.0	
		2-26-69	73.5	193.5	
		3-28-69	71.0	196.0	
		4-28-69	71.9	195.1	
		5-28-69	71.4	195.6	
		6-27-69	73.1	193.9	
		7-30-69	75.4	191.6	
		8-29-69	70.6	196.4	
		9-29-69	69.6	197.4	
12S/19E-28A01 M	307.5	2-11-69	91.3	216.2	5001
WEST CHOWCHILLA-MADERA AREA			5-22.14		
10S/13E-22R01 M	119.0	2-17-69	22.8	96.2	5001
10S/14E-08B03 M	147.0	10-25-68	90.0	57.0	5001
		11-21-68	84.2	62.8	
		12-24-68	80.8	66.2	
		1-21-69	80.3	66.7	
		2-20-69	76.1	70.9	
		3-27-69	71.7	75.3	
		4-23-69	69.7	77.3	
		5-22-69	77.2	69.8	
		6-26-69	86.4	60.6	
		7-28-69	89.2	57.8	
		8-19-69	93.0	54.0	
		9-17-69	92.5	54.5	
10S/14E-31H01 M	130.0	10-25-68	41.4	88.6	5001
		11-21-68	43.0	87.0	
		12-24-68	38.6	91.4	
		1-21-69	37.0	93.0	
		2-20-69	35.6	94.4	
		3-27-69	32.6	97.4	
		4-25-69	37.2	92.8	
		5-21-69	35.7	94.3	
		6-26-69	37.3	92.7	
		7-28-69	39.6	90.4	
		8-19-69	41.1	88.9	
		9-17-69	38.3	91.7	
10S/14E-35P01 M	151.0	10-25-68	90.5	60.5	5001
		11-21-68	88.5	62.5	
		12-24-68	79.2	71.8	
		1-21-69	78.7	72.3	
		2-20-69	77.3	73.7	
		3-27-69	64.5	86.5	
		4-25-69	63.5	87.5	
		5-21-69	NM-1		
		6-26-69	NM-1		
		7-28-69	NM-1		
		8-19-69	NM-1		
		9-17-69	73.7	77.3	
11S/14E-13R01 M	150.0	10-24-68	NM-1		5001
		11-22-68	48.6	101.4	
		12-24-68	43.9	106.1	
		1-22-69	52.0	98.0	
		2-20-69	42.1	107.9	
		3-27-69	38.7	111.3	
		4-25-69	NM-1		
		5-21-69	NM-1		
		6-27-69	NM-1		
		7-31-69	NM-1		
		8-20-69	NM-1		
		9-17-69	NM-1		

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST CHOWCHILLA-MADERA AREA (Cont.)		5-22.14			
11S/15E-33E01 M	158.0	2-14-69	48.5	109.5	5001
11S/15E-33F01 M	158.0	10-24-68	61.1	96.9	5001
		11-22-68	NM-9		
		12-24-68	NM-9		
		1-22-69	46.9	111.1	
		2-24-69	NM-9		
		3-28-69	34.4	123.6	
		4-25-69	59.7	98.3	
		5-21-69	51.1	106.9	
		6-27-69	56.9	101.1	
		7-31-69	60.7	97.3	
		8-20-69	61.5	96.5	
		9-18-69	61.0	97.0	
12S/15E-14L01 M	165.1	2-07-69	NM-9		5001
13S/16E-02C01 M	194.0	10-29-68	72.4	121.6	5001
		11-26-68	70.4	123.6	
		12-27-68	69.9	124.1	
		1-30-69	62.0	132.0	
		2-26-69	59.2	134.8	
		3-28-69	57.8	136.2	
		4-28-69	62.5	131.5	
		5-28-69	64.1	129.9	
		6-27-69	73.4	120.6	
		7-30-69	77.5	116.5	
		8-29-69	84.9	109.1	
		9-29-69	84.0	110.0	
FRESNO IRRIGATION DISTRICT		5-22.15			
12S/20E-14A01 M	365.0	2-10-69	96.4	268.6	5001
12S/21E-34D01 M	387.7	10-30-68	56.7	331.0	5631
		11-29-68	51.3	336.4	
		12-27-68	53.8	333.9	
		1-31-69	53.4	334.3	
		3-01-69	53.4	334.3	
		4-01-69	43.6	344.1	
		5-01-69	44.2	343.5	
		6-01-69	NM-1		
		7-01-69	44.6	343.1	
		7-30-69	45.2	342.5	
		8-29-69	43.1	344.6	
		9-30-69	42.5	345.2	
12S/22E-21E01 M	473.0	2-10-69	NM-9		5001
13S/17E-22B01 M	220.8	10-31-68	39.6	181.2	5631
		11-29-68	39.9	180.9	
		12-27-68	39.9	180.9	
		1-31-69	39.8	181.0	
		3-01-69	43.8	177.0	
		4-01-69	38.4	182.4	
		5-01-69	38.4	182.4	
		6-01-69	33.4	187.4	
		7-01-69	31.7	189.1	
		7-30-69	31.9	188.9	
		8-29-69	30.9	189.9	
		9-30-69	31.6	189.2	
13S/17E-33D01 M	211.0	10-23-68	62.6	148.4	5001
		11-20-68	55.2	155.8	
		12-27-68	56.2	154.8	
		1-20-69	53.7	157.3	
		2-19-69	53.0	158.0	
		3-25-69	52.6	158.4	
		4-24-69	55.5	155.5	
		5-23-69	54.4	156.6	
		6-25-69	54.2	156.8	
		7-30-69	60.0	151.0	
		8-18-69	53.2	157.8	
		9-16-69	53.1	157.9	
13S/18E-10F01 M	258.0	10-23-68	48.3	209.7	5D01
		11-20-68	51.1	206.9	
		12-23-68	51.5	206.5	
		1-20-69	51.1	206.9	
		2-19-69	50.9	207.1	
		3-25-69	51.2	206.8	
		4-24-69	53.1	204.9	
		5-23-69	54.5	203.5	
		6-25-69	49.8	208.2	
		7-30-69	48.5	209.5	
		8-18-69	48.6	209.4	
		9-16-69	49.6	208.4	
13S/18E-16D01 M	253.0	2-12-69	52.2	200.8	5001
13S/18E-34D01 M	245.0	10-23-68	58.0	187.0	5001
		11-20-68	53.1	191.9	
		12-23-68	58.6	186.4	
		1-20-69	57.8	187.2	
		2-19-69	57.9	187.1	
		3-25-69	57.9	187.1	
		4-24-69	60.2	184.8	
		5-23-69	60.5	184.5	
		6-25-69	56.2	188.8	
		7-30-69	55.4	189.6	
		8-18-69	54.7	190.3	
		9-16-69	56.1	188.9	
13S/19E-09Q01 M	288.2	10-30-68	66.0	222.2	5001
		11-29-68	65.7	222.5	
		12-27-68	65.5	222.7	
		1-31-69	NM-7		
		3-01-69	NM-1		

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO IRRIGATION DISTRICT		5-22.15			
13S/19E-09Q01 M (Cont.)	288.2	4-01-69	67.2	221.0	5001
		5-01-69	65.3	222.9	
		6-01-69	NM-1		
		7-01-69	64.0	224.2	
		7-30-69	64.5	223.7	
		8-29-69	69.2	219.0	
		9-30-69	NM-1		
13S/19E-16K01 M	290.0	10-23-68	73.7	216.3	5001
		11-20-68	75.8	214.2	
		12-23-68	77.3	212.7	
		1-20-69	74.7	215.3	
		2-19-69	74.5	215.5	
		3-25-69	74.1	215.9	
		4-24-69	75.9	214.1	
		5-23-69	77.2	212.8	
		6-25-69	73.0	217.0	
		7-30-69	73.8	216.2	
		8-18-69	76.4	213.6	
		9-16-69	77.7	212.3	
13S/20E-02L01 M	339.0	10-30-68	94.9	244.1	5631
		11-29-68	91.7	247.3	
		12-27-68	92.4	246.6	
		1-31-69	90.9	248.1	
		3-01-69	90.2	248.8	
		4-01-69	92.4	246.6	
		5-01-69	90.4	248.6	
		6-01-69	96.3	242.7	
		7-01-69	98.0	241.0	
		7-30-69	92.4	246.6	
		8-29-69	95.2	243.8	
		9-30-69	93.0	246.0	
13S/23E-31F01 M	406.5	2-27-69	25.6	380.9	5631
14S/18E-08J01 M	227.4	10-30-68	67.6	159.8	5631
		11-29-68	66.2	161.2	
		12-27-68	66.2	161.2	
		1-31-69	65.2	162.2	
		3-01-69	65.0	162.4	
		4-01-69	NM-1		
		5-01-69	67.2	160.2	
		6-01-69	67.0	160.4	
		7-01-69	71.0	156.4	
		7-30-69	75.7	151.7	
		8-29-69	69.7	157.7	
		9-30-69	64.4	163.0	
14S/19E-20B02 M	245.0	10-30-68	56.0	189.0	5631
		11-29-68	56.0	189.0	
		12-27-68	56.0	189.0	
		1-31-69	55.4	189.6	
		3-01-69	55.2	189.8	
		4-01-69	52.6	192.4	
		5-01-69	52.0	193.0	
		6-01-69	49.7	195.3	
		7-01-69	49.4	195.6	
		7-30-69	49.8	195.2	
		8-29-69	48.9	195.1	
		9-30-69	49.5	195.5	
14S/20E-06J01 M	279.4	10-30-68	68.5	210.9	5631
		11-29-68	66.8	212.6	
		12-27-68	66.4	213.0	
		1-31-69	65.9	213.5	
		3-01-69	64.9	214.5	
		4-01-69	64.6	214.8	
		5-01-69	67.0	212.4	
		6-01-69	67.0	212.4	
		7-01-69	67.6	211.8	
		7-30-69	67.8	211.6	
		8-29-69	68.1	211.3	
		9-30-69	64.5	214.9	
15S/20E-13E02 M	282.5	10-30-68	37.4	245.1	5631
		11-29-68	35.8	246.7	
		12-27-68	34.3	248.2	
		1-31-69	33.4	249.1	
		3-01-69	38.5	244.0	
		4-01-69	36.8	245.7	
		5-01-69	36.8	245.7	
		6-01-69	36.4	246.1	
		7-01-69	35.2	247.3	
		7-30-69	34.3	248.2	
		8-29-69	30.2	252.3	
		9-30-69	32.1	250.4	
CITY OF FRESNO		5-22.16			
13S/20E-21J01 M	310.0	3-01-69	96.1	213.9	5200
13S/20E-23B01 M	325.0	10-30-68	95.2	229.8	5200
		11-25-68	95.2	229.8	
		12-30-68	95.1	229.9	
		2-03-69	95.3	229.7	
		2-27-69	94.3	230.7	
		3-26-69	94.0	231.0	
		4-28-69	94.0	231.0	
		5-27-69	94.3	230.7	
		7-01-69	94.6	230.4	
		7-30-69	95.8	229.2	
		8-27-69	95.5	229.5	
13S/20E-28E01 M	299.3	10-31-68	92.0	207.3	5200
		11-26-68	89.2	210.1	
		12-30-68	89.0	210.3	
		1-30-69	88.7	210.6	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CITY OF FRESNO			5-22.16		
13S/20E-28E01 M (Cont.)	299.3	2-27-69	87.9	211.4	5200
		3-27-69	87.0	212.3	
		4-28-69	87.2	212.1	
		5-27-69	88.6	210.7	
		7-01-69	90.0	209.3	
		7-30-69	91.0	208.3	
		8-27-69	92.5	206.8	
13S/20E-35N02 M	305.3	11-01-68	89.5	215.8	5200
		11-29-68	88.4	216.9	
		12-31-68	85.5	219.8	
		2-03-69	86.4	218.9	
		3-03-69	85.4	219.9	
		3-27-69	82.3	223.0	
		4-29-69	82.5	222.8	
		5-27-69	83.8	221.5	
		7-07-69	85.6	219.7	
		7-31-69	87.4	217.9	
		8-28-69	88.6	216.7	
14S/20E-10M01 M	291.4	10-30-68	82.5	208.9	5200
		11-27-68	79.9	211.5	
		12-31-68	79.9	211.5	
		1-31-69	78.7	212.7	
		2-28-69	75.9	215.5	
		3-27-69	75.5	215.9	
		4-29-69	67.0	224.4	
		5-28-69	80.0	211.4	
		7-01-69	82.8	208.6	
		7-31-69	85.0	206.4	
		8-28-69	84.8	206.6	
FRESNO SLOUGH AREA			5-22.17		
13S/15E-28N01 M	162.0	2-17-69	27.4	134.6	5001
14S/15E-25N02 M	160.0	10-23-68	29.4	130.6	5001
		11-20-68	24.8	135.2	
		12-23-68	23.3	136.7	
		1-20-69	23.0	137.0	
		2-19-69	NM-9		
		3-25-69	18.9	141.1	
		4-24-69	21.1	138.9	
		5-23-69	25.6	134.4	
		6-25-69	26.3	133.7	
		7-30-69	26.9	133.1	
		8-18-69	26.1	133.9	
		9-16-69	27.1	132.9	
14S/16E-03C01 M	177.0	10-23-68	60.6	116.4	5001
		11-20-68	56.7	120.3	
		12-23-68	54.0	123.0	
		1-20-69	48.8	128.2	
		2-19-69	45.4	131.6	
		3-25-69	46.1	130.9	
		4-24-69	NM-1		
		5-23-69	NM-1		
		6-25-69	NM-1		
		7-30-69	NM-1		
		8-18-69	64.0	113.0	
		9-16-69	NM-1		
14S/16E-08D01 M	165.0	10-23-68	49.0	116.0	5001
		11-20-68	43.0	122.0	
		12-23-68	NM-1		
		1-20-69	31.6	133.4	
		2-19-69	29.4	135.6	
		3-25-69	28.0	137.0	
		4-24-69	NM-1		
		5-23-69	NM-1		
		6-25-69	NM-1		
		7-30-69	NM-1		
		8-18-69	NM-1		
		9-16-69	NM-1		
14S/16E-22N01 M	163.0	2-17-69	25.4	137.6	5001
14S/17E-25A01 M	211.0	2-06-69	82.3	128.7	5001
15S/16E-01L01 M	171.0	2-13-69	NM-5		5001
15S/16E-12C03 M	169.5	10-23-68	34.9	134.6	5001
		11-20-68	34.2	135.3	
		12-23-68	34.1	135.4	
		1-20-69	35.0	134.5	
		2-19-69	33.5	136.0	
		3-25-69	30.0	139.5	
		4-24-69	27.5	142.0	
		5-23-69	26.3	143.2	
		6-25-69	24.4	145.1	
		7-30-69	24.2	145.3	
		8-18-69	25.6	143.9	
		9-16-69	26.2	143.3	
15S/17E-22R01 M	187.0	2-07-69	91.7	95.3	5001
15S/17E-35N02 M	182.0	10-23-68	95.0	87.0	5001
		11-20-68	94.2	87.8	
		12-23-68	94.0	88.0	
		1-20-69	94.0	88.0	
		2-19-69	90.2	91.8	
		3-25-69	85.9	96.1	
		4-24-69	75.2	106.8	
		5-23-69	68.3	113.7	
		6-25-69	63.5	118.5	
		7-30-69	64.0	118.0	
		8-18-69	70.0	112.0	
		9-16-69	66.0	116.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
FRESNO SLOUGH AREA (Cont.)			5-22.17		
15S/18E-07A02 M	204.0	10-23-68	121.5	82.5	5001
		11-20-68	112.3	91.7	
		12-23-68	109.7	94.3	
		1-20-69	107.0	97.0	
		2-19-69	102.3	101.7	
		3-25-69	100.2	103.8	
		4-24-69	100.5	103.5	
		5-23-69	105.3	98.7	
		6-25-69	115.5	88.5	
		7-30-69	121.5	82.5	
		8-18-69	120.5	83.5	
		9-16-69	117.2	86.8	
15S/18E-16G01 M	205.8	2-18-69	116.0	89.8	5001
16S/17E-23N01 M	185.0	2-05-69	NM-8		5001
16S/18E-03J01 M	206.0	11-06-68	129.5	76.5	5050
		12-11-68	129.0	77.0	
		1-02-69	122.5	83.5	
		1-30-69	127.5	78.5	
		3-03-69	121.8	84.2	
		4-07-69	119.5	86.5	
		4-29-69	NM-1		
		6-10-69	127.5	78.5	
		7-03-69	NM-1		
		8-04-69	134.0	72.0	
		8-29-69	NM-1		
16S/18E-27C01 M	198.0	3-11-69	120.9	77.1	5050
16S/19E-34F01 M	220.0	11-06-68	108.0	112.0	5050
		12-11-68	113.8	106.2	
		1-02-69	113.5	106.5	
		1-30-69	107.5	112.5	
		3-03-69	110.0	110.0	
		4-07-69	99.0	121.0	
		4-29-69	101.0	119.0	
		6-10-69	106.0	114.0	
		7-03-69	NM-1		
		8-04-69	NM-1		
		8-29-69	NM-7		
17S/17E-12N01 M	199.0	3-11-69	NM-9		5050
17S/18E-23A02 M	200.0	3-11-69	70.3	129.7	5050
CONSOLIDATED IRRIGATION DISTRICT			5-22.18		
14S/22E-22N01 M	355.7	10-01-68	28.8	326.9	5636
		11-01-68	29.3	326.4	
		12-04-68	29.4	326.3	
		12-31-68	29.5	326.2	
		1-31-69	27.9	327.8	
		2-27-69	27.6	328.1	
		4-01-69	26.8	328.9	
		5-01-69	26.2	329.5	
		6-02-69	25.9	329.8	
		7-01-69	25.6	330.1	
		8-01-69	25.1	330.6	
		9-02-69	24.8	330.9	
15S/19E-24N01 M	246.6	10-01-68	87.0	159.6	5636
		11-01-68	86.1	160.5	
		12-04-68	84.3	162.3	
		12-31-68	82.9	163.7	
		1-31-69	82.0	164.6	
		2-27-69	80.6	166.0	
		4-01-69	79.6	167.0	
		5-01-69	86.2	160.4	
		6-02-69	84.9	161.7	
		7-01-69	86.1	160.5	
		8-01-69	85.3	161.3	
		9-02-69	83.7	162.9	
15S/20E-28A01 M	264.8	10-01-68	55.7	209.1	5636
		11-01-68	55.1	209.7	
		12-04-68	54.7	210.1	
		12-31-68	54.3	210.5	
		1-31-69	54.0	210.8	
		2-27-69	53.3	211.5	
		4-01-69	53.3	211.5	
		5-01-69	55.8	209.0	
		6-02-69	56.0	208.8	
		7-01-69	55.3	209.5	
		8-01-69	57.0	207.8	
		9-02-69	52.4	212.4	
15S/21E-15D01 M	301.2	10-01-68	32.6	268.6	5636
		11-01-68	31.4	269.8	
		12-04-68	31.2	270.0	
		12-31-68	30.8	270.4	
		1-31-69	30.2	271.0	
		2-27-69	29.7	271.5	
		4-01-69	29.1	272.1	
		5-01-69	29.1	272.1	
		6-02-69	29.4	271.8	
		7-01-69	28.8	272.4	
		8-01-69	29.1	272.1	
		9-02-69	28.3	272.9	
15S/22E-16A01 M	337.0	10-01-68	28.8	308.2	5636
		11-01-68	28.9	308.1	
		12-04-68	28.3	308.7	
		12-31-68	28.9	308.1	
		1-31-69	28.7	308.3	
		2-27-69	28.3	308.7	
		4-01-69	27.3	309.7	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
CONSOLIDATED IRRIGATION DISTRICT		5-22.18			
15S/22E-16A01 M (Cont.)	337.0	5-01-69	26.7	310.3	5636
		6-02-69	26.3	310.7	
		7-01-69	25.6	311.4	
		8-01-69	24.4	312.6	
		9-02-69	22.7	314.3	
15S/22E-29D01 M	321.9	10-01-68	33.0	288.9	5636
		11-01-68	33.1	288.8	
		12-04-68	33.2	288.7	
		12-31-68	33.2	288.7	
		1-31-69	33.2	288.7	
		2-27-69	32.4	289.5	
		4-01-69	31.0	290.9	
		5-01-69	30.2	291.7	
		6-02-69	28.4	293.5	
		7-01-69	27.1	294.8	
		8-01-69	25.9	296.0	
		9-02-69	24.8	297.1	
16S/19E-14A01 M	235.5	10-01-68	102.6	132.9	5636
		11-01-68	98.1	137.4	
		12-04-68	96.0	139.5	
		12-31-68	94.5	141.0	
		1-31-69	92.0	143.5	
		2-27-69	91.1	144.4	
		4-01-69	92.2	143.3	
		5-01-69	94.6	140.9	
		6-02-69	98.4	137.1	
		7-01-69	99.5	136.0	
		8-01-69	100.6	134.9	
		9-02-69	101.8	133.7	
16S/20E-22N01 M	247.7	10-01-68	69.8	177.9	5636
		11-01-68	69.1	178.6	
		12-04-68	69.0	178.7	
		12-31-68	68.8	178.9	
		1-31-69	66.6	181.1	
		2-27-69	65.3	182.4	
		4-01-69	66.2	181.5	
		5-01-69	66.2	181.5	
		6-02-69	66.3	181.4	
		7-01-69	63.5	184.2	
		8-01-69	61.6	186.1	
		9-02-69	59.6	188.1	
16S/21E-22N01 M	271.0	10-01-68	50.8	220.2	5636
		11-01-68	49.3	221.7	
		12-04-68	48.8	222.2	
		12-31-68	47.1	223.9	
		1-31-69	46.1	224.9	
		2-27-69	45.3	225.7	
		4-01-69	44.1	226.9	
		5-01-69	46.1	224.9	
		6-02-69	46.8	224.2	
		7-01-69	47.4	223.6	
		8-01-69	47.8	223.2	
		9-02-69	46.6	224.4	
16S/22E-23R01 M	297.5	10-01-68	27.3	270.2	5636
		11-01-68	27.6	269.9	
		12-04-68	27.6	269.9	
		12-31-68	27.6	269.9	
		1-31-69	27.6	269.9	
		2-27-69	27.5	270.0	
		4-01-69	25.1	272.4	
		5-01-69	23.5	274.0	
		6-02-69	22.3	275.2	
		7-01-69	21.3	276.2	
		8-01-69	20.6	276.9	
		9-02-69	20.3	277.2	
17S/22E-03C01 M	286.0	10-01-68	27.0	259.0	5636
		11-01-68	26.6	259.4	
		12-04-68	26.2	259.8	
		1-31-69	25.6	260.4	
		2-27-69	22.6	263.4	
		4-01-69	19.9	266.1	
		5-01-69	18.3	267.7	
		6-02-69	16.6	269.4	
		7-01-69	15.1	270.9	
		8-01-69	14.5	271.5	
		9-02-69	13.1	272.9	
ALTA IRRIGATION DISTRICT		5-22.19			
14S/23E-36R01 M	391.0	10-30-68	63.9	327.1	5637
		11-27-68	62.2	328.8	
		12-30-68	61.9	329.1	
		2-05-69	58.9	332.1	
		3-00-69	NM-9		
		3-28-69	43.7	347.3	
		4-30-69	39.8	351.2	
		5-28-69	39.0	352.0	
		6-27-69	34.8	356.2	
		7-30-69	32.0	359.0	
		8-29-69	29.0	362.0	
		9-27-69	32.6	358.4	
14S/24E-31P01 M	395.0	3-28-69	42.3	352.7	5001
15S/23E-23A02 M	358.0	10-30-68	53.4	304.6	5637
		11-27-68	52.2	305.8	
		12-30-68	51.5	306.5	
		2-05-69	48.3	309.7	
		3-00-69	NM-9		
		3-28-69	40.2	317.8	
		4-30-69	37.2	320.8	
		5-28-69	34.3	323.7	
ALTA IRRIGATION DISTRICT		5-22.19			
15S/23E-23A02 M (Cont.)	358.0	6-27-69	30.2	327.8	5637
		7-30-69	27.3	330.7	
		8-28-69	26.0	332.0	
		9-27-69	27.8	330.2	
15S/24E-22D01 M	388.0	10-31-68	45.0	343.0	5637
		11-29-68	44.4	343.6	
		12-30-68	43.8	344.2	
		2-05-69	NM-7		
		3-00-69	NM-9		
		3-31-69	14.6	373.4	
		5-01-69	13.6	374.4	
		5-29-69	10.1	377.9	
		6-28-69	8.4	379.6	
		7-31-69	7.2	380.8	
		8-29-69	6.8	381.2	
		9-29-69	9.8	378.2	
16S/23E-23E01 M	314.0	10-29-68	28.7	285.3	5637
		11-26-68	28.4	285.6	
		12-27-68	28.3	285.7	
		2-04-69	27.5	286.5	
		3-00-69	NM-9		
		3-27-69	24.8	289.2	
		4-29-69	24.7	289.3	
		5-27-69	24.1	289.9	
		6-26-69	23.6	290.4	
		7-29-69	21.2	292.8	
		8-27-69	16.7	297.3	
		9-26-69	15.4	298.6	
16S/24E-21J01 M	336.0	10-28-68	39.6	296.4	5637
		11-25-68	39.0	297.0	
		12-26-68	38.3	297.7	
		2-03-69	37.7	298.3	
		3-00-69	NM-9		
		3-26-69	31.4	304.6	
		4-28-69	28.5	307.5	
		5-26-69	27.2	308.8	
		6-25-69	24.0	312.0	
		7-28-69	21.6	314.4	
		8-26-69	19.0	317.0	
		9-25-69	18.7	317.3	
16S/25E-29A01 M	364.0	10-28-68	53.5	310.5	5637
		11-25-68	51.2	312.8	
		12-26-68	50.5	313.5	
		2-03-69	34.6	329.4	
		3-00-69	NM-9		
		3-26-69	22.5	341.5	
		4-28-69	21.8	342.2	
		5-26-69	18.8	345.2	
		6-25-69	18.4	345.6	
		7-28-69	14.4	349.6	
		8-26-69	11.3	352.7	
		9-25-69	NM-1		
17S/22E-25A01 M	276.0	10-29-68	44.8	231.2	5637
		11-26-68	41.8	234.2	
		12-27-68	40.5	235.5	
		2-04-69	37.6	238.4	
		3-00-69	NM-9		
		3-29-69	34.1	241.9	
		4-29-69	34.4	241.6	
		5-27-69	37.1	238.9	
		6-26-69	38.6	237.4	
		7-29-69	43.8	232.2	
		8-27-69	44.8	231.2	
		9-26-69	37.2	238.8	
17S/22E-25J01 M	275.0	10-29-68	44.1	230.9	5637
		11-26-68	43.1	231.9	
		12-27-68	41.3	233.7	
		2-04-69	38.9	236.1	
		3-00-69	NM-9		
		3-27-69	35.9	239.1	
		4-29-69	35.1	239.9	
		5-27-69	36.3	238.7	
		6-26-69	37.4	237.6	
		7-29-69	42.5	232.5	
		8-27-69	43.5	231.5	
		9-26-69	37.5	237.5	
17S/24E-15A03 M	302.0	10-23-68	30.7	271.3	5001
		11-27-68	29.9	272.1	
		12-23-68	29.4	272.6	
		1-23-69	24.9	277.1	
		2-00-69	NM-0		
17S/25E-10C01 M	335.0	3-26-69	33.7	301.3	5637
17S/25E-18R01 M	321.0	3-26-69	62.4	258.6	5637
LOWER KINGS RIVER AREA		5-22.20			
17S/19E-14J01 M	217.0	3-12-69	NM-9		5050
17S/20E-20D01 M	223.0	11-06-68	72.1	150.9	5050
		12-11-68	70.0	153.0	
		1-02-69	66.6	156.4	
		1-30-69	NM-7		
		3-03-69	66.5	156.5	
		4-07-69	65.0	158.0	
		4-29-69	62.0	161.0	
		6-10-69	66.5	156.5	
		7-03-69	64.3	158.7	
		8-04-69	64.5	158.5	
		8-29-69	63.6	159.2	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER KINGS RIVER AREA (Cont.)		5-22.20			
17S/21E-11K01 M	257.0	10-01-68	43.2	213.8	5050
		11-07-68	41.2	215.8	
		12-12-68	39.0	218.0	
		1-03-69	36.8	220.2	
		1-31-69	NM-9		
		3-03-69	NM-9		
		4-07-69	35.7	221.3	
		4-29-69	37.0	220.0	
		6-10-69	NM-1		
		7-03-69	NM-1		
		8-04-69	NM-1		
		8-29-69	NM-1		
18S/19E-35J02 M	211.0	3-13-69	148.5	62.5	5050
18S/20E-16A01 M	230.0	3-14-69	6.5	233.5	5050
18S/21E-10R01 M	254.0	10-01-68	65.0	189.0	5050
		11-07-68	75.0	179.0	
		12-12-68	63.0	191.0	
		1-03-69	60.5	193.5	
		1-31-69	59.0	195.0	
		3-03-69	57.5	196.5	
		4-07-69	55.8	198.2	
		4-29-69	57.7	196.3	
		6-10-69	62.2	191.8	
		7-03-69	68.0	186.0	
		8-04-69	67.5	186.5	
		8-29-69	68.5	185.5	
19S/19E-25A01 M	208.0	3-14-69	5.7	202.3	5050
20S/22E-19M02 M	211.0	10-01-68	26.5	184.5	5050
		11-07-68	26.0	185.0	
		12-12-68	25.5	185.5	
		1-03-69	25.6	185.4	
		1-31-69	24.9	186.1	
		3-03-69	26.0	185.0	
		4-07-69	22.3	188.7	
		4-29-69	21.9	189.1	
		6-10-69	20.5	190.5	
		7-03-69	20.0	191.0	
		8-04-69	19.5	191.5	
		8-29-69	18.3	192.7	
ORANGE COVE IRRIGATION DISTRICT		5-22.21			
14S/24E-29C02 M	430.5	10-02-68	NM-1		5001
		11-01-68	41.0	389.5	
		12-04-68	41.2	389.3	
		1-08-69	40.1	390.4	
		2-03-69	NM-7		
		3-03-69	29.3	401.2	
		3-26-69	30.7	399.8	
		5-01-69	30.9	399.6	
		6-03-69	37.3	393.2	
		7-02-69	NM-1		
		8-04-69	NM-1		
		9-05-69	34.1	396.4	
14S/25E-30D01 M	510.0	2-06-69	28.4	481.6	5001
15S/24E-14D01 M	405.0	10-02-68	21.0	384.0	5001
		11-01-68	20.7	384.3	
		12-04-68	20.3	384.7	
		1-08-69	18.0	387.0	
		2-03-69	7.2	397.8	
		3-03-69	1.8	403.2	
		4-01-69	2.3	402.7	
		5-02-69	2.3	402.7	
		6-03-69	3.7	401.3	
		7-02-69	5.4	399.6	
		8-04-69	6.5	398.5	
		9-05-69	10.8	394.2	
16S/25E-04C02 M	415.0	10-04-68	11.9	403.1	5001
		11-01-68	13.5	401.5	
		12-04-68	14.5	400.5	
		1-08-69	13.9	401.1	
		2-03-69	10.2	404.8	
		3-04-69	4.9	410.1	
		4-01-69	5.2	409.8	
		5-02-69	5.3	409.7	
		6-03-69	5.5	409.5	
		7-07-69	6.1	408.9	
		8-05-69	6.4	408.6	
		9-08-69	6.7	408.3	
STONE CORRAL IRRIGATION DISTRICT		5-22.22			
16S/26E-32R01 M	405.0	10-23-68	3.4	401.6	5001
		11-27-68	3.1	401.9	
		12-23-68	3.1	401.9	
		1-22-69	0.1	404.9	
		2-26-69	0.0	405.0	
		3-26-69	1.1	403.9	
		4-24-69	1.6	403.4	
		5-28-69	2.7	402.3	
		6-20-69	2.3	402.7	
		7-30-69	NM-6		
17S/25E-01D01 M	355.0	9-24-69	22.0	333.0	5001
17S/26E-07R01 M	364.0	10-23-68	11.9	352.1	5001
		11-27-68	9.0	355.0	
		12-23-68	9.0	355.0	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
STONE CORRAL IRRIGATION DISTRICT		5-22.22			
17S/26E-07R01 M (Cont.)	364.0	1-22-69	8.0	356.0	5001
		2-26-69	3.1	360.9	
		3-26-69	2.1	361.9	
		4-24-69	2.0	362.0	
		5-28-69	4.3	359.7	
		6-20-69	4.7	359.3	
		7-30-69	5.7	358.3	
		8-20-69	5.6	358.4	
		9-24-69	6.0	358.0	
IVANHOE IRRIGATION DISTRICT		5-22.23			
17S/25E-27R01 M	350.0	3-03-69	84.9	264.1	5001
17S/25E-35M01 M	349.0	10-01-68	NM-1		5001
		11-01-68	81.5	267.5	
		12-01-68	80.7	268.3	
		1-08-69	79.6	269.4	
		2-03-69	79.9	269.1	
		3-03-69	77.0	272.0	
		4-03-69	74.6	274.4	
		5-02-69	71.5	277.5	
		6-03-69	NM-1		
		7-02-69	NM-8		
		8-06-69	NM-1		
		9-01-69	74.9	274.1	
17S/25E-36G01 M	365.0	10-01-68	79.0	286.0	5001
		11-01-68	75.9	289.1	
		12-01-68	74.2	290.8	
		1-08-69	74.0	291.0	
		2-03-69	72.6	292.4	
		3-03-69	71.0	294.0	
		4-03-69	69.8	295.2	
		5-02-69	66.7	298.3	
		6-03-69	65.0	300.0	
		7-02-69	64.8	300.2	
		8-06-69	66.7	298.3	
		9-01-69	66.0	299.0	
17S/26E-32N01 M	385.0	10-01-68	67.2	317.8	5001
		11-01-68	66.1	318.9	
		12-01-68	64.0	321.0	
		1-08-69	64.1	320.9	
		2-03-69	62.9	322.1	
		3-03-69	61.0	324.0	
		4-03-69	59.2	325.8	
		5-02-69	57.2	327.8	
		6-03-69	58.0	327.0	
		7-02-69	NM-1		
		8-06-69	58.0	327.0	
		9-01-69	NM-1		
17S/26E-34D01 M	416.0	10-01-68	59.2	356.8	5001
		11-01-68	58.8	357.2	
		12-01-68	57.5	358.5	
		1-08-69	57.1	358.9	
		2-03-69	55.7	360.3	
		3-03-69	54.0	362.0	
		4-03-69	51.9	364.1	
		5-02-69	49.0	367.0	
		6-03-69	48.0	368.0	
		7-02-69	53.7	362.3	
		8-06-69	51.8	364.2	
		9-01-69	52.8	363.2	
KAWEAH DELTA WATER CONSERVATION DISTRICT		5-22.24			
17S/25E-15P01 M	340.0	10-23-68	99.1	240.9	5001
		11-27-68	93.9	246.1	
		12-23-68	98.2	241.8	
		1-22-69	89.0	251.0	
		2-26-69	NM-9		
		3-26-69	82.0	258.0	
		4-24-69	80.7	259.3	
		5-28-69	NM-1		
		6-20-69	93.8	246.2	
		7-30-69	NM-1		
		8-20-69	NM-1		
		9-24-69	NM-1		
17S/26E-17F02 M	385.0	2-06-69	13.8	371.2	5001
17S/27E-34P01 M	473.0	2-06-69	10.6	462.4	5001
18S/22E-29A01 M	251.0	2-04-69	87.1	163.9	5001
18S/23E-12H01 M	282.5	10-29-68	62.4	220.1	5001
		11-26-68	58.1	224.4	
		12-27-68	55.3	227.2	
		1-28-69	52.9	229.6	
		3-03-69	50.5	232.0	
		3-31-69	48.3	234.2	
		5-05-69	47.4	235.1	
		5-29-69	49.2	233.3	
		7-02-69	51.5	231.0	
		7-30-69	52.7	229.8	
		8-27-69	54.2	228.3	
		9-25-69	51.5	231.0	
18S/23E-34A01 M	271.0	10-12-68	107.7	163.3	5001
		2-17-69	97.1	173.9	
18S/24E-26A01 M	312.5	2-19-69	57.6	254.9	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWEAH DELTA WATER CONSERVATION DISTRICT (Cont.)		5-22.24			
18S/25E-12Q01 M	363.0	2-03-69	43.5	318.5	5001
18S/25E-33P01 M	338.0	2-04-69	40.9	297.1	5001
18S/26E-27E01 M	390.0	2-04-69	16.6	373.4	5001
18S/26E-30N01 M	367.0	10-29-68	26.4	340.6	5001
		11-26-68	25.7	341.3	
		12-27-68	24.6	342.4	
		1-28-69	22.0	345.0	
		3-03-69	17.8	349.2	
		3-31-69	16.5	350.5	
		5-05-69	17.9	349.1	
		5-29-69	17.3	349.7	
		6-30-69	18.5	348.5	
		7-30-69	18.1	348.9	
		8-27-69	17.6	349.4	
		9-25-69	15.2	351.8	
19S/22E-01N02 M	245.0	2-21-69	67.2	177.8	5001
19S/22E-36E01 M	234.0	10-21-68	101.8	132.2	5001
		11-25-68	NM-6		
19S/25E-07K01 M	320.0	10-29-68	53.0	267.0	5001
		11-26-68	53.1	266.9	
		12-27-68	53.0	267.0	
		1-28-69	51.6	268.4	
		3-03-69	46.2	273.8	
		3-31-69	42.2	277.8	
		5-05-69	36.2	283.8	
		5-29-69	33.2	286.8	
		6-30-69	29.3	290.7	
		7-30-69	26.0	294.0	
		8-27-69	24.8	295.2	
		9-25-69	22.9	297.1	
19S/26E-34R02 M	341.0	10-23-68	93.9	247.1	5001
		11-27-68	84.7	256.3	
		12-23-68	80.9	260.1	
		1-22-69	76.9	264.1	
		2-26-69	74.0	267.0	
		3-26-69	71.0	270.0	
		4-24-69	75.0	266.0	
		5-28-69	NM-7		
		6-20-69	89.9	251.1	
		7-30-69	NM-1		
		8-20-69	NM-1		
		9-24-69	105.0	236.0	
20S/22E-10C01 M	226.0	2-20-69	115.4	110.6	5001
20S/25E-14P01 M	304.5	10-22-68	73.6	230.9	5001
		11-26-68	67.5	237.0	
		12-20-68	65.5	239.0	
		1-22-69	62.5	242.0	
		2-20-69	58.9	245.6	
		3-25-69	53.1	251.4	
		4-23-69	55.5	249.0	
		5-26-69	56.9	247.6	
		6-19-69	63.4	241.1	
		7-29-69	65.6	238.9	
		8-19-69	64.8	239.7	
		9-24-69	51.1	253.4	
TULARE IRRIGATION DISTRICT		5-22.25			
19S/23E-14R01 M	270.0	10-31-68	79.5	190.5	5001
		11-29-68	78.2	191.8	
		12-31-68	77.4	192.6	
		1-31-69	76.3	193.7	
		2-27-69	73.9	196.1	
		3-28-69	73.6	196.4	
		5-06-69	74.3	195.7	
		5-28-69	70.6	199.4	
		6-26-69	70.4	199.6	
		7-29-69	72.2	197.8	
		8-27-69	79.0	191.0	
		9-22-69	66.7	203.3	
19S/23E-32N01 M	250.5	2-03-69	87.5	163.0	5001
19S/24E-16P01 M	290.0	10-31-68	84.6	205.4	5001
		11-29-68	82.8	207.2	
		12-31-68	81.7	208.3	
		1-31-69	80.7	209.3	
		2-27-69	78.6	211.4	
		3-28-69	77.0	213.0	
		5-06-69	81.0	209.0	
		5-28-69	85.5	204.5	
		6-26-69	97.8	192.2	
		7-29-69	91.0	199.0	
		8-28-69	90.0	200.0	
		9-22-69	72.5	217.5	
19S/24E-27Q01 M	290.0	10-31-68	89.6	200.4	5001
		11-29-68	NM-1		
		12-31-68	85.1	204.9	
		1-31-69	84.7	205.3	
		3-04-69	82.9	207.1	
		3-28-69	82.5	207.5	
		5-06-69	82.5	207.5	
		5-28-69	84.5	205.5	
		6-26-69	89.5	200.5	
		7-29-69	87.4	202.6	
		8-28-69	96.7	193.3	
		9-25-69	78.7	211.3	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TULARE IRRIGATION DISTRICT (Cont.)		5-22.25			
19S/25E-17A02 M	328.0	10-31-68	52.1	275.9	5001
		11-29-68	51.5	276.5	
		12-31-68	51.5	276.5	
		1-31-69	50.7	277.3	
		2-27-69	49.2	278.8	
		3-28-69	47.3	280.7	
		5-06-69	45.7	282.3	
		5-29-69	42.4	285.6	
		6-26-69	NM-1		
		7-29-69	NM-1		
		8-27-69	39.5	288.5	
		9-26-69	35.2	292.8	
20S/23E-08B02 M	241.0	10-31-68	104.4	136.6	5001
		11-29-68	102.5	138.5	
		12-31-68	100.9	140.1	
		1-31-69	99.2	141.8	
		2-27-69	98.5	142.5	
		3-28-69	96.0	145.0	
		5-06-69	94.4	146.6	
		5-28-69	93.9	147.1	
		6-26-69	94.3	146.7	
		7-29-69	92.5	148.5	
		8-28-69	91.0	150.0	
		9-29-69	88.2	152.8	
20S/24E-16H01 M	273.0	10-30-68	103.9	169.1	5001
		11-29-68	92.2	180.8	
		12-30-68	90.0	183.0	
		1-31-69	88.9	184.1	
		3-04-69	87.3	185.7	
		3-28-69	86.5	186.5	
		5-06-69	89.7	183.3	
		5-28-69	93.9	179.1	
		6-26-69	100.0	173.0	
		7-29-69	107.6	165.4	
		8-28-69	96.5	176.5	
20S/24E-30J02 M	250.0	10-30-68	101.3	148.7	5001
		11-29-68	99.5	150.5	
		12-30-68	98.4	151.6	
		1-31-69	97.4	152.6	
		3-04-69	96.1	153.9	
		3-28-69	102.5	147.5	
		5-06-69	93.5	156.5	
		5-28-69	NM-1		
		6-26-69	NM-1		
		7-29-69	97.7	152.3	
		8-28-69	95.0	155.0	
21S/23E-05R01 M	222.0	10-30-68	93.9	128.1	5001
		11-29-68	91.9	130.1	
		12-30-68	91.0	131.0	
		1-31-69	90.0	132.0	
		3-04-69	88.5	133.5	
		3-28-69	87.5	134.5	
		5-06-69	85.3	136.7	
		5-28-69	83.6	138.4	
		6-26-69	82.8	139.2	
		7-29-69	88.1	133.9	
		8-28-69	91.5	130.5	
EXETER IRRIGATION DISTRICT		5-22.26			
18S/26E-25K01 M	436.0	10-23-68	64.5	371.5	5001
		11-27-68	60.4	375.6	
		12-23-68	60.7	375.3	
		1-22-69	57.7	378.3	
		2-26-69	NM-9		
		3-26-69	48.5	387.5	
		4-24-69	43.4	392.6	
		5-28-69	41.1	394.9	
		6-20-69	39.3	396.7	
		7-30-69	38.2	397.8	
		8-20-69	40.5	395.5	
		9-24-69	40.5	395.5	
18S/26E-34P02 M	391.0	10-23-68	61.5	329.5	5001
		11-27-68	58.8	332.2	
		12-23-68	57.8	333.2	
		1-22-69	55.9	335.1	
		2-26-69	53.0	338.0	
		3-26-69	45.0	346.0	
		4-24-69	43.2	347.8	
		5-28-69	44.7	346.3	
		6-20-69	45.9	345.1	
		7-30-69	46.0	345.0	
		8-20-69	46.7	344.3	
		9-24-69	54.0	337.0	
18S/27E-29D01 M	447.0	10-23-68	40.1	406.9	5001
		11-26-68	37.5	409.5	
		12-23-68	37.9	409.1	
		1-23-69	29.1	417.9	
		2-26-69	NM-9		
		3-26-69	11.1	435.9	
		4-24-69	12.9	434.1	
		5-28-69	NM-1		
		6-20-69	14.0	433.0	
		7-30-69	NM-1		
		8-20-69	15.9	431.1	
		9-24-69	15.0	432.0	
19S/26E-14E01 M	375.0	10-23-68	90.4	284.6	5001
		11-27-68	86.9	288.1	
		12-23-68	84.7	290.3	
		1-22-69	82.8	292.2	
		2-26-69	79.2	295.8	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EXETER IRRIGATION DISTRICT			5-22.26		
19S/26E-14E01 M (Cont.)	375.0	3-26-69	75.0	300.0	5001
		4-24-69	73.2	301.8	
		5-28-69	NM-1		
		6-20-69	74.0	301.0	
		7-30-69	72.2	302.8	
		8-20-69	71.2	303.8	
		9-24-69	70.0	305.0	
19S/26E-23E01 M	359.0	2-04-69	82.4	276.6	5001
LINDSAY-STRATHMORE IRRIGATION DISTRICT			5-22.27		
19S/27E-20D01 M	385.0	2-10-69	58.5	326.5	5001
20S/27E-06B01 M	372.0	10-23-68	55.6	316.4	5001
		11-27-68	56.4	315.6	
		12-23-68	51.4	320.6	
		1-22-69	57.5	314.5	
		2-24-69	55.4	316.6	
		3-25-69	50.6	321.4	
		4-24-69	48.7	323.3	
		5-28-69	46.5	325.5	
		6-20-69	45.4	326.6	
		7-30-69	44.5	327.5	
		8-20-69	44.5	327.5	
		9-24-69	44.0	328.0	
20S/27E-16A01 M	426.0	10-22-68	34.0	392.0	5001
		11-27-68	33.2	392.8	
		12-20-68	32.8	393.2	
		1-21-69	35.3	390.7	
		2-20-69	33.4	392.6	
		3-26-69	21.0	405.0	
		4-24-69	20.9	405.1	
		5-28-69	21.6	404.4	
		6-19-69	22.3	403.7	
		7-30-69	22.1	403.9	
		8-20-69	22.8	403.2	
		9-24-69	23.6	402.4	
20S/27E-21F01 M	414.0	2-10-69	31.9	382.1	5001
20S/27E-29J01 M	406.0	2-10-69	33.1	372.9	5001
21S/27E-01A01 M	460.0	10-22-68	35.0	425.0	5001
		11-27-68	32.7	427.3	
		12-20-68	31.6	428.4	
		1-21-69	29.8	430.2	
		2-20-69	NM-7		
		3-26-69	NM-7		
		4-24-69	21.0	439.0	
		5-28-69	25.0	435.0	
		6-19-69	24.2	435.8	
		7-30-69	22.5	437.5	
		8-20-69	23.6	436.4	
		9-24-69	25.0	435.0	
LINDMORE IRRIGATION DISTRICT			5-22.28		
20S/26E-01F01 M	360.0	10-23-68	97.1	262.9	5001
		11-27-68	88.5	271.5	
		12-23-68	87.0	273.0	
		1-22-69	82.0	278.0	
		2-24-69	76.6	283.4	
		3-26-69	70.5	289.5	
		4-24-69	66.8	293.2	
		5-28-69	71.8	288.2	
		6-20-69	NM-1		
		7-30-69	NM-1		
		8-20-69	72.2	287.8	
		9-24-69	74.5	285.5	
20S/26E-22C02 M	341.0	2-05-69	99.3	241.7	5001
20S/26E-24K01 M	362.5	10-22-68	73.4	289.1	5001
		11-26-68	71.7	290.8	
		12-20-68	71.0	291.5	
		1-21-69	70.3	292.2	
		2-20-69	69.3	293.2	
		3-25-69	67.5	295.0	
		4-23-69	66.3	296.2	
		5-26-69	67.4	295.1	
		6-19-69	66.5	296.0	
		7-29-69	65.6	296.9	
		8-19-69	64.1	298.4	
		9-24-69	63.4	299.1	
20S/26E-32A01 M	331.5	10-22-68	105.9	225.6	5001
		11-26-68	102.0	229.5	
		12-20-68	101.5	230.0	
		1-21-69	96.7	234.8	
		2-20-69	95.6	235.9	
		3-25-69	94.3	237.2	
		4-23-69	95.0	236.5	
		5-26-69	NM-1		
		6-19-69	NM-1		
		7-29-69	101.2	230.3	
		8-19-69	99.8	231.7	
		9-24-69	99.5	232.0	
20S/27E-29E01 M	392.0	10-22-68	44.9	347.1	5001
		11-27-68	43.1	348.9	
		12-20-68	42.5	349.5	
		1-21-69	41.7	350.3	
		2-20-69	38.4	353.6	
LINDMORE IRRIGATION DISTRICT			5-22.28		
20S/27E-29E01 M (Cont.)	392.0	3-26-69	34.9	357.1	5001
		4-24-69	33.4	358.6	
		5-28-69	34.1	357.9	
		6-19-69	NM-1		
		7-30-69	32.0	360.0	
		8-20-69	32.5	359.5	
		9-24-69	32.0	360.0	
PORTERVILLE IRRIGATION DISTRICT			5-22.29		
21S/26E-12A01 M	372.0	10-22-68	58.1	313.9	5608
		11-22-68	51.0	321.0	
		12-23-68	49.4	322.6	
		2-03-69	46.3	325.7	
		2-20-69	45.0	327.0	
		3-24-69	44.3	327.7	
		4-23-69	47.8	324.2	
		5-22-69	47.7	324.3	
		6-23-69	48.5	323.5	
		7-21-69	47.7	324.3	
		8-26-69	47.0	325.0	
		9-30-69	42.2	329.8	
21S/27E-21C01 M	409.0	10-22-68	22.5	386.5	5001
		11-26-68	22.5	386.5	
		12-20-68	22.4	386.6	
		1-21-69	22.5	386.5	
		2-20-69	22.5	386.5	
		3-25-69	19.2	389.8	
		4-23-69	17.9	391.1	
		5-26-69	17.5	391.5	
		6-19-69	17.1	391.9	
		7-29-69	16.7	392.3	
		8-19-69	17.5	391.5	
		9-24-69	17.0	392.0	
21S/27E-28E01 M	420.0	10-22-68	21.8	398.2	5001
		11-22-68	22.3	397.7	
		12-23-68	22.5	397.5	
		1-23-69	22.3	397.7	
		2-20-69	20.8	399.2	
		3-24-69	17.8	402.2	
		4-23-69	14.6	405.4	
		5-22-69	15.3	404.7	
		6-23-69	10.1	409.9	
		7-21-69	8.2	411.8	
		8-26-69	12.5	407.5	
		9-30-69	16.5	403.5	
22S/26E-01J01 M	395.0	10-22-68	81.3	313.7	5608
		11-22-68	75.4	319.6	
		12-23-68	79.0	316.0	
		1-23-69	78.0	317.0	
		2-03-69	77.2	317.8	
		2-20-69	77.4	317.6	
		3-24-69	75.7	319.3	
		4-23-69	78.0	317.0	
		5-22-69	76.3	318.7	
		6-23-69	NM-1		
		7-21-69	84.7	310.3	
		8-26-69	77.4	317.6	
		9-30-69	79.3	315.7	
22S/27E-06D01 M	397.0	10-22-68	59.4	337.6	5608
		11-22-68	58.4	338.6	
		12-23-68	58.4	338.6	
		2-03-69	57.0	340.0	
		2-20-69	57.1	339.9	
		3-24-69	55.9	341.1	
		4-23-69	56.2	340.8	
		5-22-69	54.6	342.4	
		6-23-69	54.1	342.9	
		7-21-69	53.1	343.9	
		8-26-69	54.6	342.4	
		9-29-69	54.1	342.9	
22S/27E-10A01 M	455.0	10-22-68	77.7	377.3	5608
		11-22-68	74.7	380.3	
		12-23-68	73.8	381.2	
		2-03-69	71.5	383.5	
		2-20-69	70.2	384.8	
		3-24-69	68.2	386.8	
		4-23-69	67.8	387.2	
		5-21-69	NM-1		
		6-23-69	71.3	383.7	
		7-21-69	74.4	380.6	
		8-26-69	72.4	382.6	
		9-29-69	73.4	381.6	
22S/27E-10R01 M	467.0	2-03-69	112.0	355.0	5001
LOWER TULE RIVER IRRIGATION DISTRICT			5-22.30		
21S/23E-22J01 M	221.5	2-19-69	97.9	123.6	5001
21S/24E-15H01 M	253.0	2-16-69	NM-7		5001
21S/24E-31D01 M	230.0	11-04-68	88.4	141.6	5001
		11-29-68	84.3	145.7	
		1-04-69	88.1	141.9	
		2-00-69	NM-9		
		3-04-69	81.8	148.2	
		4-02-69	80.4	149.6	
		5-01-69	79.3	150.7	
		6-03-69	77.8	152.2	
		6-24-69	77.0	153.0	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LOWER TULE RIVER IRRIGATION DISTRICT		5-22-30			
21S/24E-31D01 M (Cont.)	230.0	7-24-69	76.2	153.8	5001
		8-28-69	74.3	155.7	
21S/24E-35M01 M	251.0	11-04-68	88.1	162.9	5001
		11-29-68	87.0	164.0	
		1-04-69	86.3	164.7	
		2-00-69	NM-9		
		3-04-69	81.9	169.1	
		4-02-69	83.7	167.3	
		5-01-69	84.8	166.2	
		6-03-69	82.1	168.9	
		6-24-69	84.6	166.4	
		7-24-69	85.0	166.0	
		8-28-69	NM-9		
21S/25E-08H01 M	285.0	2-16-69	66.4	219.1	5001
21S/26E-06G02 M	322.0	11-04-68	77.7	244.3	5001
		11-29-68	74.9	247.1	
		1-04-69	72.3	249.7	
		2-00-69	NM-9		
		3-04-69	67.2	254.8	
		4-03-69	66.9	255.1	
		5-01-69	78.9	243.1	
		6-03-69	74.0	248.0	
		6-26-69	84.4	237.6	
		7-25-69	91.4	230.6	
		8-29-69	89.9	232.1	
21S/26E-10E01 M	350.0	11-04-68	55.6	294.4	5001
		11-29-68	57.8	292.2	
		1-04-69	50.6	299.4	
		2-00-69	NM-9		
		3-06-69	47.7	302.3	
		4-03-69	47.6	302.4	
		5-01-69	47.8	302.2	
		6-03-69	45.4	304.6	
		6-26-69	46.0	304.0	
		7-25-69	52.0	298.0	
		8-29-69	52.6	297.4	
22S/24E-09A01 M	245.0	11-04-68	119.6	125.4	5001
		11-29-68	118.0	127.0	
		1-04-69	117.1	127.9	
		2-00-69	NM-9		
		3-06-69	118.1	126.9	
		4-03-69	115.4	129.6	
		5-01-69	115.7	129.3	
		6-03-69	114.6	130.4	
		6-24-69	114.4	130.6	
		7-24-69	114.0	131.0	
		8-28-69	113.3	131.7	
22S/24E-15A01 M	251.5	2-12-69	130.6	120.9	5001
22S/25E-10E01 M	296.0	11-04-68	103.2	192.8	5001
		11-29-68	102.2	193.8	
		1-04-69	101.7	194.3	
		2-00-69	NM-9		
		3-06-69	101.4	194.6	
		4-02-69	100.5	195.5	
		5-01-69	99.8	196.2	
		6-03-69	96.2	199.8	
		6-24-69	101.3	194.7	
		7-24-69	99.6	196.4	
		8-29-69	99.5	196.5	
22S/25E-15A01 M	300.5	3-01-69	127.3	173.2	5001
22S/26E-06A01 M	337.0	2-03-69	117.0	220.0	5001
VANDALIA IRRIGATION DISTRICT		5-22.31			
22S/28E-07Q01 M	524.0	10-22-68	133.6	390.4	5001
		11-26-68	130.0	394.0	
		12-20-68	126.7	397.3	
		1-21-69	126.2	397.8	
		2-20-69	125.9	398.1	
		3-25-69	125.8	398.2	
		4-23-69	122.9	401.1	
		5-26-69	NM-1		
		6-19-69	NM-1		
		7-29-69	NM-7		
		8-19-69	NM-1		
		9-23-69	NM-1		
22S/28E-17N01 M	577.0	10-22-68	155.0	422.0	5001
		11-26-68	148.8	428.2	
		12-20-68	139.5	437.5	
		1-21-69	131.4	445.6	
		2-20-69	127.3	449.7	
		3-25-69	120.7	456.3	
		4-23-69	116.6	460.4	
		5-26-69	122.0	455.0	
		6-19-69	127.2	449.8	
		7-29-69	155.1	421.9	
		8-19-69	161.6	415.4	
		9-23-69	173.0	404.0	
22S/28E-18A01 M	535.0	10-22-68	126.5	408.5	5001
		11-26-68	118.0	417.0	
		12-20-68	115.0	420.0	
		1-21-69	NM-9		
		2-20-69	109.9	425.1	
		3-25-69	112.1	422.9	
		4-23-69	106.8	428.2	
VANDALIA IRRIGATION DISTRICT		5-22.31			
22S/28E-18A01 M (Cont.)	535.0	5-26-69	126.7	408.3	5001
		6-19-69	121.0	414.0	
		7-29-69	131.8	403.2	
		8-19-69	141.8	393.2	
		9-23-69	137.5	397.5	
SAUCELITO IRRIGATION DISTRICT		5-22.32			
22S/26E-15J01 M	371.0	10-22-68	139.2	231.8	5001
		11-26-68	133.4	237.6	
		12-20-68	131.5	239.5	
		1-21-69	128.8	242.2	
		2-20-69	127.7	243.3	
		3-25-69	125.4	245.6	
		4-23-69	128.6	242.4	
		5-26-69	126.8	244.2	
		6-19-69	NM-1		
		7-29-69	NM-1		
		8-19-69	130.9	240.1	
		9-24-69	137.5	233.5	
22S/26E-32E01 M	339.0	10-22-68	212.8	126.2	5001
		11-26-68	210.6	128.4	
		12-20-68	206.1	132.9	
		1-21-69	202.7	136.3	
		2-20-69	NM-3		
		3-25-69	188.4	150.6	
		4-23-69	204.4	134.6	
		5-26-69	NM-1		
		6-19-69	NM-1		
		7-29-69	NM-8		
		8-19-69	NM-3		
		9-24-69	NM-0		
23S/26E-02R01 M	397.0	2-04-69	163.0	234.0	5001
23S/26E-03R01 M	381.0	10-22-68	190.9	190.1	5001
		11-26-68	179.9	201.1	
		12-20-68	176.9	204.1	
		1-21-69	173.2	207.8	
		2-20-69	172.0	209.0	
		3-25-69	171.6	209.4	
		4-23-69	170.8	210.2	
		5-26-69	172.9	208.1	
		6-18-69	175.9	205.1	
		7-29-69	NM-1		
		8-19-69	NM-1		
		9-23-69	176.0	205.0	
PIXLEY IRRIGATION DISTRICT		5-22.33			
22S/25E-25N01 M	310.0	10-22-68	206.0	104.0	5001
		11-26-68	197.1	112.9	
		12-19-68	192.2	117.8	
		1-20-69	188.0	122.0	
		2-20-69	182.0	128.0	
		3-25-69	178.1	131.9	
		4-23-69	188.0	122.0	
		5-26-69	191.2	118.8	
		6-19-69	203.6	106.4	
		7-29-69	214.8	95.2	
		8-19-69	214.2	95.8	
		9-22-69	198.0	112.0	
23S/23E-02B01 M	207.0	2-04-69	38.3	168.7	5001
23S/24E-16R01 M	222.0	10-21-68	136.6	85.4	5001
		11-25-68	132.8	89.2	
		12-19-68	129.7	92.3	
		1-20-69	126.7	95.3	
		2-19-69	124.7	97.3	
		3-24-69	122.7	99.3	
		4-22-69	122.3	99.7	
		5-27-69	123.6	98.4	
		6-18-69	126.0	96.0	
		7-28-69	124.9	97.1	
		8-18-69	131.0	91.0	
		9-22-69	131.5	90.5	
23S/25E-14C01 M	300.0	1-31-69	56.6	243.4	5001
23S/25E-16N04 M	263.0	10-23-68	90.2	172.8	5001
		11-20-68	88.7	174.3	
		12-17-68	87.9	175.1	
		1-15-69	87.3	175.7	
		2-13-69	86.6	176.4	
		3-12-69	86.3	176.7	
		4-09-69	86.4	176.6	
		5-07-69	86.8	176.2	
		6-26-69	86.7	176.3	
		7-28-69	86.0	177.0	
		8-25-69	85.2	177.8	
		9-23-69	83.4	179.6	
23S/26E-08R01 M	345.0	10-22-68	190.7	154.3	5001
		11-26-68	186.5	158.5	
		12-20-68	183.7	161.3	
		1-21-69	180.1	164.9	
		2-20-69	177.8	167.2	
		3-25-69	175.3	169.7	
		4-23-69	174.4	170.6	
		5-26-69	174.4	170.6	
		6-19-69	176.3	168.7	
		7-29-69	180.3	164.7	
		8-19-69	182.0	163.0	
		9-23-69	179.0	166.0	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALFAUGH-ALLENSWORTH AREA			5-22.34		
22S/23E-28L01 M	196.0	10-21-68	107.9	88.1	5001
		11-25-68	100.3	95.7	
		12-19-68	89.7	106.3	
		1-20-69	80.6	115.4	
		2-19-69	77.8	118.2	
		3-24-69	NM-7		
		4-22-69	NM-9		
		5-27-69	NM-9		
		6-18-69	NM-9		
		7-28-69	NM-9		
		8-18-69	NM-0		
23S/24E-35A02 M	235.0	10-21-68	210.2	24.8	5001
		11-25-68	180.8	54.2	
		12-19-68	156.5	78.5	
		1-20-69	147.6	87.4	
		2-19-69	138.0	97.0	
		3-24-69	130.5	104.5	
		4-22-69	134.7	100.3	
		5-27-69	160.9	74.1	
		6-18-69	164.9	70.1	
		7-28-69	180.1	54.9	
		8-18-69	187.1	47.9	
		9-22-69	181.7	53.3	
24S/23E-05R02 M	210.0	10-21-68	239.3	-29.3	5001
		11-25-68	235.8	-25.8	
		12-19-68	226.7	-16.7	
		1-20-69	204.5	5.5	
		2-19-69	202.7	7.3	
		3-24-69	174.3	35.7	
		4-22-69	176.2	33.8	
		5-27-69	NM-1		
		6-18-69	223.7	-13.7	
		7-28-69	NM-1		
		8-18-69	NM-1		
		9-22-69	231.7	-21.7	
24S/23E-21B02 M	205.0	10-21-68	65.2	139.8	5001
		11-25-68	64.9	140.1	
		12-19-68	65.2	139.8	
		1-20-69	63.1	141.9	
		2-19-69	58.7	146.3	
		3-24-69	NM-9		
		4-22-69	66.0	139.0	
		5-27-69	70.5	134.5	
		6-18-69	68.5	136.5	
		7-28-69	68.3	136.7	
		8-18-69	68.2	136.8	
		9-22-69	68.0	137.0	
24S/23E-34R01 M	206.0	1-31-69	198.2	7.8	5001
24S/24E-20R01 M	218.0	10-21-68	230.0	-12.0	5001
		11-25-68	201.7	16.3	
		12-19-68	187.9	30.1	
		1-20-69	167.5	50.5	
		2-19-69	162.3	55.7	
		3-24-69	154.3	63.7	
		4-22-69	168.6	49.4	
		5-27-69	171.9	46.1	
		6-18-69	194.0	24.0	
		7-28-69	207.9	10.1	
		8-18-69	226.7	-8.7	
		9-22-69	228.0	-10.0	
24S/24E-22R01 M	233.0	10-21-68	203.4	29.6	5001
		11-25-68	178.8	54.2	
		12-19-68	166.5	66.5	
		1-20-69	149.5	83.5	
		2-19-69	138.6	94.4	
		3-25-69	126.4	106.6	
		4-22-69	133.7	99.3	
		5-27-69	152.7	80.3	
		6-18-69	167.0	66.0	
		7-28-69	193.1	39.9	
		8-18-69	220.7	12.3	
		9-22-69	210.4	22.6	
24S/24E-23Q01 M	235.0	1-31-69	35.5	199.5	5001
24S/24E-34P01 M	232.0	10-21-68	94.2	137.8	5001
		11-25-68	89.0	143.0	
		12-19-68	86.7	145.3	
		1-20-69	NM-9		
		2-19-69	NM-9		
		3-24-69	80.0	152.0	
		4-22-69	80.4	151.6	
		5-27-69	85.0	147.0	
		6-18-69	87.4	144.6	
		7-28-69	95.1	136.9	
		8-18-69	95.8	136.2	
		9-22-69	95.4	136.6	
24S/25E-17P01 M	268.0	10-21-68	129.8	138.2	5001
		11-25-68	110.5	157.5	
		12-19-68	105.8	162.2	
		1-20-69	99.7	168.3	
		2-19-69	95.7	172.3	
		3-24-69	93.9	174.1	
		4-23-69	105.8	162.2	
		5-27-69	113.4	154.6	
		6-18-69	114.1	153.9	
		7-28-69	126.4	141.6	
		8-19-69	127.6	140.4	
		9-22-69	121.5	146.5	

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELANO-EARLIMART IRRIGATION DIST.			5-22.35		
23S/25E-27J02 M	296.0	1-29-69	92.0	204.0	5001
23S/26E-29P01 M	356.5	1-31-69	176.5	180.0	5001
23S/27E-27G01 M	552.0	2-05-69	373.0	179.0	5001
24S/25E-02H01 M	321.0	10-21-68	101.6	219.4	5001
		11-26-68	102.0	219.0	
		12-19-68	101.5	219.5	
		1-20-69	100.0	221.0	
		2-19-69	99.4	221.6	
		3-25-69	101.5	219.5	
		4-23-69	101.5	219.5	
		5-26-69	101.5	219.5	
		6-18-69	101.4	219.6	
		7-28-69	101.3	219.7	
		8-19-69	101.4	219.6	
		9-22-69	101.2	219.8	
24S/25E-10A01 M	304.0	1-29-69	118.0	186.0	5001
24S/25E-33J01 M	291.5	1-31-69	62.8	228.7	5001
24S/26E-05R01 M	376.0	1-27-69	170.0	206.0	5001
24S/26E-20H01 M	378.0	1-27-69	150.0	228.0	5001
24S/26E-29R02 M	400.0	10-16-68	147.1	251.9	5000
		11-18-68	140.6	259.4	
		12-18-68	136.5	263.5	
		1-15-69	NM-7		
		2-11-69	133.1	266.9	
		3-20-69	132.7	267.3	
		4-28-69	143.5	256.5	
		5-21-69	136.2	263.8	
		6-24-69	136.4	263.6	
		7-28-69	135.6	264.4	
		8-27-69	135.9	264.1	
		9-22-69	134.6	265.4	
24S/26E-32G01 M	396.0	1-31-69	112.5	283.5	5001
24S/26E-34P01 M	445.0	10-23-68	247.8	197.2	5000
		11-20-68	233.6	211.4	
		12-16-68	227.9	217.1	
		1-15-69	221.7	223.3	
		2-13-69	216.6	228.4	
		3-13-69	213.2	231.8	
		4-10-69	210.8	234.2	
		5-09-69	212.6	232.4	
		6-26-69	217.8	227.2	
		7-29-69	227.8	217.2	
		8-26-69	227.7	217.3	
		9-22-69	222.8	222.2	
24S/27E-32K01 M	540.0	2-03-69	425.5	114.5	5001
		9-21-69	509.5	30.5	
25S/26E-10B03 M	430.0	1-31-69	196.5	233.5	5001
25S/26E-16P01 M	388.0	10-16-68	86.3	301.7	5000
		11-18-68	86.0	302.0	
		12-18-68	88.9	299.1	
		1-15-69	NM-7		
		2-11-69	83.5	304.5	
		3-20-69	97.7	290.3	
		4-28-69	99.2	288.8	
		5-21-69	97.1	290.9	
		6-24-69	98.9	295.1	
		7-28-69	92.0	296.0	
		8-27-69	88.5	299.5	
		9-22-69	86.1	301.9	
25S/27E-22H01 M	750.0	1-30-69	416.9	333.1	5001
SOUTHERN SAN JOAQUIN MUD			5-22.36		
25S/24E-12A02 M	253.0	10-16-68	90.2	162.8	5000
		11-18-68	80.4	172.6	
		12-18-68	76.7	176.3	
		1-15-69	NM-7		
		2-11-69	71.2	181.8	
		3-20-69	69.1	183.9	
		4-28-69	76.8	176.2	
		5-21-69	NM-1		
		6-24-69	90.5	162.5	
		7-28-69	NM-1		
		8-27-69	NM-1		
		9-22-69	99.8	153.2	
25S/25E-06H01 M	259.0	1-27-69	NM-7		5001
25S/25E-36R02 M	335.0	1-27-69	169.0	166.0	5001
		9-26-69	NM-9		
25S/26E-28E01 M	394.0	10-16-68	145.4	248.6	5000
		11-18-68	145.8	248.2	
		12-18-68	140.7	253.3	
		1-15-69	NM-7		
		2-12-69	NM-7		
		3-20-69	NM-7		
		4-23-69	NM-9		
		5-21-69	147.8	246.2	
		6-24-69	149.8	244.2	
		7-28-69	151.2	242.8	
		8-27-69	NM-7		
		9-22-69	153.5	240.5	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTHERN SAN JOAQUIN MUD (Cont.)			5-22.36		
25S/26E-28H02 M	414.0	1-29-69	164.0	250.0	5001
26S/26E-16P01 M	443.0	1-29-69	291.1	151.9	5001
NORTH KERN WATER STORAGE DIST.			5-22.37		
26S/25E-15P01 M	346.7	10-16-68	236.0	110.7	5000
		11-18-68	236.0	110.7	
		12-18-68	207.0	139.7	
		1-15-69	NM-7		
		2-11-69	192.0	154.7	
		3-20-69	174.0	172.7	
		4-28-69	196.0	150.7	
		5-21-69	NM-1		
		6-24-69	203.0	143.7	
		7-28-69	NM-1		
		8-27-69	200.0	146.7	
		9-22-69	NM-1		
26S/25E-15R01 M	352.3	1-24-69	180.6	171.7	5700
26S/26E-30P01 M	392.0	1-21-69	233.0	159.0	5700
27S/25E-01N01 M	394.0	10-16-68	117.4	276.6	5000
		11-18-68	119.8	274.2	
		12-18-68	121.5	272.5	
		1-15-69	NM-7		
		2-11-69	123.5	270.5	
		3-20-69	118.8	275.2	
		4-28-69	120.3	273.7	
		5-21-69	120.9	273.1	
		6-24-69	98.1	295.9	
		7-28-69	93.8	300.2	
		8-27-69	90.9	303.1	
		9-01-69	NM-0		
27S/25E-01N03 M	394.0	7-23-69	275.2	118.8	5000
		8-27-69	270.0	124.0	
		9-22-69	275.8	118.2	
27S/26E-06H02 M	416.0	1-30-69	337.4	78.6	5001
27S/26E-20E01 M	435.7	2-05-69	282.6	153.1	5700
27S/27E-30H02 M	527.0	1-31-69	424.0	103.0	5001
28S/25E-13L01 M	361.1	1-26-69	181.1	180.0	5700
28S/26E-21H01 M	388.0	10-16-68	178.4	209.6	5000
		11-18-68	177.1	210.9	
		12-18-68	165.3	222.7	
		1-15-69	NM-7		
		2-11-69	165.1	222.9	
		3-20-69	178.0	210.0	
		4-28-69	170.5	217.5	
		5-21-69	166.9	221.1	
		6-24-69	158.7	229.3	
		7-28-69	154.0	234.0	
		8-27-69	151.4	236.6	
		9-01-69	NM-0		
28S/26E-21H03 M	388.0	7-23-69	268.8	119.2	5000
		8-27-69	263.7	124.3	
		9-22-69	251.3	136.7	
SHAFTER-WASCO IRRIGATION DIST.			5-22.38		
27S/24E-01L02 M	322.0	4-28-69	231.8	90.2	5000
		5-21-69	248.6	73.4	
		6-24-69	264.4	57.6	
		7-28-69	278.4	43.6	
		8-27-69	283.9	38.1	
		9-22-69	258.4	63.6	
27S/24E-35C01 M	316.0	1-31-69	207.8	108.2	5700
27S/25E-28A01 M	375.0	10-16-68	255.4	119.6	5000
		11-18-68	230.0	145.0	
		12-18-68	237.5	137.5	
		1-15-69	NM-7		
		2-11-69	228.0	147.0	
		3-20-69	219.8	155.2	
		4-28-69	238.4	136.6	
		5-21-69	259.7	115.3	
		6-24-69	NM-1		
		7-28-69	NM-1		
		8-27-69	231.0	144.0	
		9-22-69	NM-1		
28S/25E-16P01 M	329.0	10-16-68	197.8	131.2	5000
		11-18-68	198.6	130.4	
		12-18-68	197.7	131.3	
		1-15-69	NM-7		
		2-11-69	191.6	137.4	
		3-20-69	191.8	137.2	
		4-28-69	193.3	135.7	
		5-21-69	197.4	131.6	
		6-24-69	196.6	132.4	
		7-28-69	209.9	119.1	
		8-27-69	204.8	124.2	
		9-22-69	199.3	129.7	
KERN RIVER DELTA AREA			5-22.40		
28S/26E-29L01 M	349.0	1-07-69	159.1	189.9	5700
29S/25E-12M03 M	330.0	10-16-68	163.7	166.3	5000
		11-18-68	164.8	165.2	
		12-18-68	162.7	167.3	
		1-15-69	NM-7		
		2-11-69	161.3	168.7	
		3-20-69	159.8	170.2	
		4-28-69	161.2	168.8	
		5-21-69	166.3	163.7	
		6-24-69	170.8	159.2	
		7-28-69	172.2	157.8	
		8-27-69	179.7	150.3	
		9-22-69	170.5	159.5	
29S/27E-33D01 M	380.0	10-16-68	98.8	281.2	5000
		11-18-68	98.9	281.1	
		12-18-68	99.8	28[illegible].2	
		1-15-69	NM-7		
		2-11-69	100.7	279.3	
		3-20-69	91.4	288.6	
		4-28-69	83.0	29[illegible].0	
		5-21-69	84.5	29[illegible].5	
		6-25-69	72.4	30[illegible].6	
		7-28-69	72.2	307.8	
		8-28-69	61.3	3[illegible].7	
		9-23-69	57.7	32[illegible].3	
30S/25E-17E01 M	300.6	9-05-69	73.[illegible]	227.0	5640
30S/25E-22D01 M	308.5	10-01-68	70.1	238.4	5640
		11-02-68	69.3	239.2	
		12-02-68	60.2	248.3	
		1-02-69	70.1	238.4	
		1-31-69	71.6	236.9	
		3-04-69	70.8	237.7	
		4-01-69	NM-0		
30S/26E-16J01 M	339.1	2-04-69	NM-0		5121
30S/26E-22P02 M	338.0	10-16-68	92.2	245.8	5000
		11-18-68	88.3	249.7	
		12-18-68	87.6	250.4	
		1-15-69	NM-7		
		2-11-69	86.9	251.1	
		3-20-69	92.4	245.6	
		4-28-69	96.1	241.9	
		5-21-69	NM-7		
		6-24-69	93.7	244.3	
		7-28-69	94.9	243.1	
		8-27-69	92.8	245.2	
		9-22-69	81.2	256.8	
30S/28E-32B01 M	354.4	1-29-69	115.3	239.1	5001
30S/28E-34R02 M	359.0	10-16-68	99.2	259.8	5000
		11-18-68	96.7	262.3	
		12-19-68	96.0	263.0	
		1-15-69	NM-7		
		2-11-69	94.5	264.5	
		3-20-69	94.8	264.2	
		4-29-69	96.9	262.1	
		5-22-69	98.8	260.2	
		6-25-69	100.0	259.0	
		7-29-69	101.5	257.5	
		8-28-69	103.0	256.0	
		9-23-69	100.6	258.4	
31S/26E-01A01 M	333.0	2-03-69	NM-0		5121
31S/26E-35D01 M	294.5	2-03-69	61.2	233.3	5121
31S/27E-04L01 M	341.1	2-06-69	116.6	224.5	5700
31S/27E-28J01 M	312.1	2-03-69	78.5	233.6	5121
31S/28E-30M01 M	314.7	2-06-69	69.0	245.7	5700
32S/26E-36G01 M	378.0	1-20-69	NM-9		5121
32S/27E-18E01 M	292.6	2-07-69	103.3	189.3	5700
32S/28E-04B01 M	301.0	1-28-69	44.4	256.6	5001
		9-22-69	55.8	245.2	
EDISON-MARICOPA AREA			5-22.41		
29S/29E-33N01 M	578.0	1-20-69	445.1	132.9	5644
30S/28E-02R01 M	410.0	1-30-69	214.0	196.0	5001
30S/28E-10N01 M	372.0	10-16-68	54.1	317.9	5000
		11-18-68	53.8	318.2	
		12-18-68	53.0	319.0	
		1-15-69	NM-7		
		2-11-69	53.2	318.8	
		3-20-69	52.2	319.[illegible]	
		4-28-69	50.4	321.[illegible]	
		5-21-69	49.[illegible]	322.4	
		6-25-69	50.4	321.[illegible]	
		7-29-69	41.3	33[illegible].7	
		8-28-69	42.2	329.[illegible]	
		9-23-69	49.8	322.2	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EDISON-MARICOPA AREA (Cont.)			5-22.41		
30S/28E-10N04 M	372.0	10-16-68	185.9	186.1	5000
		11-19-68	183.5	188.5	
		12-18-68	173.9	193.1	
		1-15-69	NM-7		
		2-11-69	175.8	196.2	
		3-20-69	175.0	197.0	
		4-28-69	177.8	194.2	
		5-21-69	183.0	189.0	
		6-25-69	184.2	187.8	
		7-29-69	188.5	183.5	
		8-28-69	189.4	182.6	
		9-23-69	189.8	182.2	
30S/29E-05P01 M	515.0	1-20-69	NM-0		5644
30S/29E-26A01 M	628.0	1-21-69	478.9	149.1	5644
30S/30E-20R01 M	791.5	1-21-69	198.5	593.0	5644
31S/29E-09A01 M	468.0	1-24-69	367.9	100.1	5644
31S/29E-29A01 M	400.0	1-28-69	144.0	256.0	5001
31S/30E-21Q01 M	536.0	1-29-69	367.5	168.5	5644
32S/25E-35N02 M	442.5	1-23-69	156.0	286.5	5121
32S/28E-23R01 M	386.7	1-31-69	280.5	106.2	5644
32S/29E-19H02 M	416.0	10-17-68	193.0	223.0	5000
		11-19-68	203.0	213.0	
		12-19-68	203.5	212.5	
		1-15-69	NM-7		
		2-12-69	203.0	213.0	
		3-21-69	203.2	212.8	
		4-29-69	201.1	214.9	
		5-22-69	203.6	212.4	
		6-25-69	202.4	213.6	
		7-29-69	202.6	213.4	
		8-28-69	202.4	213.6	
		9-23-69	202.8	213.2	
32S/29E-19H03 M	416.0	10-17-68	336.0	80.0	5000
		11-19-68	320.5	95.5	
		12-19-68	324.3	91.7	
		1-15-69	NM-7		
		2-12-69	308.5	107.5	
		3-21-69	313.8	102.2	
		4-29-69	338.2	77.8	
		5-22-69	357.4	58.6	
		6-25-69	359.3	56.7	
		7-29-69	360.7	55.3	
		8-28-69	362.6	53.4	
		9-23-69	329.6	86.4	
11N/18W-13H01 S	726.0	2-05-69	508.0	218.0	5644
		9-00-69	501.3	224.7	
11N/19W-28D01 S	850.0	1-31-69	NM-0		5644
11N/19W-04H01 S	575.9	2-04-69	422.0	153.9	5644
11N/19W-07R03 S	673.0	10-17-68	507.3	165.7	5000
		11-19-68	504.0	169.0	
		12-19-68	505.0	168.0	
		1-15-69	NM-7		
		2-12-69	505.1	167.9	
		3-21-69	503.8	169.2	
		4-29-69	507.0	166.0	
		5-22-69	511.2	161.8	
		6-25-69	511.4	161.6	
		7-29-69	510.9	162.1	
		8-28-69	509.1	163.9	
		9-23-69	513.3	159.7	
11N/20W-07Q01 S	452.3	1-17-69	347.9	104.4	5700
11N/20W-18P01 S	484.7	2-04-69	NM-0		5644
11N/20W-24A01 S	730.2	2-11-69	551.6	178.6	5700
11N/21W-09W01 S	515.9	1-20-69	507.0	8.9	5700
11N/22W-04H01 S	529.0	2-12-69	468.3	69.7	5700
12N/20W-31R01 S	363.0	2-04-69	NM-0		5644
12N/21W-29N01 S	423.3	1-20-69	322.0	101.3	5121
12N/23W-28P01 S	498.0	1-20-69	278.0	220.0	5121
BUENA VISTA WATER STORAGE DIST.			5-22.42		
27S/22E-21P02 M	240.0	2-11-69	18.0	222.0	5121
27S/22E-32H01 M	241.0	10-17-68	134.4	106.6	5000
		11-19-68	130.7	110.3	
		12-19-68	129.4	111.6	
		1-15-69	NM-7		
		2-12-69	123.8	117.2	
		3-21-69	119.4	121.6	
		4-29-69	117.2	123.8	
		5-22-69	118.8	122.2	
		6-25-69	123.3	117.7	
		7-29-69	116.9	124.1	
		8-28-69	121.0	119.0	
		9-22-69	132.1	108.9	
BUENA VISTA WATER STORAGE DISTRICT (Cont.)			5-22.42		
28S/22E-09D01 M	240.0	10-17-68	13.9	226.1	5000
		11-19-68	14.2	225.8	
		12-19-68	14.1	225.9	
		1-15-69	NM-7		
		2-11-69	13.9	226.1	
		3-21-69	12.4	227.6	
		4-29-69	10.3	229.7	
		5-22-69	8.6	231.4	
		6-25-69	7.4	232.6	
		7-29-69	7.7	232.3	
		8-28-69	7.0	233.0	
		9-23-69	7.8	232.2	
28S/22E-10D02 M	245.0	2-11-69	NM-1		5121
28S/23E-31R01 M	257.8	1-31-69	25.9	231.9	5640
29S/23E-08A01 M	260.3	1-31-69	30.3	230.0	5640
29S/23E-25J01 M	275.0	10-30-68	68.5	206.5	5050
		12-02-68	66.4	208.6	
		1-09-69	71.6	203.4	
		2-05-69	NM-0		
		3-07-69	66.5	208.5	
		3-27-69	64.5	210.5	
		5-06-69	65.5	209.5	
		5-05-69	66.5	208.5	
		7-08-69	65.5	209.5	
		8-05-69	69.0	206.0	
		9-05-69	63.7	211.3	
29S/23E-27M01 M	270.0	10-17-68	41.6	228.4	5000
		11-19-68	44.0	226.0	
		12-19-68	NM-1		
		1-15-69	NM-7		
		2-12-69	44.3	225.7	
		3-21-69	41.6	228.4	
		4-29-69	39.2	230.8	
		5-22-69	38.6	231.4	
		6-25-69	36.1	233.9	
		7-29-69	34.6	235.4	
		8-28-69	33.2	236.8	
		9-23-69	31.7	238.3	
30S/23E-01D01 M	276.8	1-31-69	59.8	217.0	5640
30S/24E-02C01 M	287.0	1-31-69	85.7	201.3	5640
30S/24E-04C01 M	282.0	10-17-68	74.1	207.9	5000
		11-19-68	70.9	211.1	
		12-19-68	81.7	200.3	
		1-15-69	NM-7		
		2-12-69	77.1	204.9	
		3-21-69	71.2	210.8	
		4-29-69	69.8	212.2	
		5-22-69	73.5	208.5	
		6-25-69	69.6	212.4	
		7-29-69	68.2	213.8	
		8-28-69	66.8	215.2	
		9-23-69	64.7	217.3	
31S/25E-27F01 M	283.0	10-17-68	NM-7		5000
		11-19-68	40.9	242.1	
		12-19-68	39.0	244.0	
		1-15-69	NM-7		
		2-12-69	29.1	253.9	
		3-21-69	26.1	256.9	
		4-29-69	NM-9		
		5-22-69	23.7	259.3	
		6-25-69	23.6	259.4	
		7-29-69	NM-7		
		8-28-69	22.5	260.5	
		9-23-69	21.9	261.1	
SEMITROPIC WATER STORAGE DISTRICT			5-22.43		
25S/22E-02N02 M	212.0	10-16-68	82.0	130.0	5000
		11-13-68	81.0	131.0	
		12-18-68	79.2	132.8	
		1-15-69	NM-7		
		2-11-69	74.8	137.2	
		3-20-69	72.1	139.9	
		4-28-69	67.8	144.2	
		5-21-69	67.9	144.1	
		6-24-69	71.0	141.0	
		7-28-69	65.1	146.9	
		8-27-69	77.2	134.8	
		9-22-69	78.9	133.2	
25S/22E-14Q01 M	215.0	4-01-69	152.5	62.5	5121
25S/23E-26D01 M	217.0	10-16-68	108.4	108.6	5000
		11-18-68	105.5	111.5	
		12-18-68	101.5	115.5	
		1-15-69	NM-7		
		2-11-69	NM-7		
		3-20-69	93.0	124.0	
		4-28-69	93.8	123.2	
		5-21-69	96.6	120.4	
		6-24-69	96.9	120.1	
		7-28-69	98.8	118.2	
		8-27-69	102.2	114.8	
		9-22-69	102.3	114.7	
25S/23E-28D03 M	217.0	10-16-68	260.4	-43.4	5000
		11-18-68	236.5	-19.5	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SEMITROPIC WATER STORAGE DISTRICT		5-22.43			
25S/23E-28D03 M (Cont.)	217.0	12-18-68	205.0	12.0	5000
		1-15-69	NM-7		
		2-12-69	NM-7		
		3-20-69	155.6	61.4	
		4-28-69	161.2	55.8	
		5-21-69	175.4	41.6	
		6-24-69	213.4	3.6	
		7-28-69	233.9	-16.9	
		8-27-69	250.2	-33.2	
		9-22-69	248.8	-31.8	
25S/24E-10K01 M	240.0	1-30-69	61.5	178.5	5001
		9-22-69	71.1	170.9	
25S/24E-15H01 M	248.0	10-16-68	87.1	160.9	5000
		11-18-68	86.9	161.1	
		12-18-68	85.0	163.0	
		1-15-69	NM-7		
		2-11-69	84.0	164.0	
		3-20-69	84.4	163.6	
		4-28-69	84.1	163.9	
		5-21-69	83.8	164.2	
		6-24-69	84.4	163.6	
		7-28-69	84.6	163.4	
		8-27-69	84.6	163.4	
		9-22-69	84.5	163.5	
25S/24E-30H01 M	237.4	1-30-69	179.7	57.7	5001
26S/21E-14E01 M	244.0	10-17-68	35.8	208.2	5000
		11-19-68	35.8	208.2	
		12-19-68	35.9	208.1	
		1-15-69	NM-7		
		2-13-69	35.8	208.2	
		3-21-69	35.0	209.0	
		4-29-69	34.8	209.2	
		5-22-69	33.2	210.8	
		6-25-69	33.0	211.0	
		7-29-69	30.7	213.3	
		8-28-69	31.6	212.4	
		9-23-69	31.9	212.1	
26S/21E-14J01 M	237.0	2-13-69	33.0	204.0	5121
26S/22E-10G02 M	225.0	10-16-68	NM-1		5000
		11-18-68	NM-7		
		12-18-68	91.5	133.5	
		1-15-69	NM-7		
		2-11-69	75.4	149.6	
		3-20-69	66.4	158.6	
		4-28-69	63.7	161.3	
		5-21-69	66.0	159.0	
		6-24-69	66.6	158.4	
		7-28-69	67.9	157.1	
		8-27-69	71.3	153.7	
		9-27-69	73.8	151.2	
26S/22E-35E01 M	253.0	4-01-69	102.0	151.0	5121
26S/23E-02R01 M	234.9	4-01-69	NM-9		5121
26S/24E-23H01 M	295.5	1-30-69	183.8	111.7	5700
27S/23E-01R01 M	267.0	10-16-68	98.6	168.4	5000
		11-18-68	98.8	168.2	
		12-18-68	99.1	167.9	
		1-15-69	NM-7		
		2-11-69	93.5	173.5	
		3-20-69	93.4	173.6	
		4-28-69	94.2	172.8	
		5-21-69	97.0	170.0	
		6-24-69	96.0	171.0	
		7-28-69	96.9	170.1	
		8-27-69	96.9	170.1	
		9-22-69	97.4	169.6	
27S/23E-01R04 M	267.0	10-16-68	248.1	18.9	5000
		11-18-68	221.2	45.8	
		12-18-68	210.0	57.0	
		1-15-69	NM-7		
		2-11-69	194.1	72.9	
		3-20-69	187.0	80.0	
		4-28-69	218.4	48.6	
		5-21-69	230.2	36.8	
		6-24-69	259.1	7.9	
		7-28-69	271.3	-4.3	
		8-27-69	277.3	-10.3	
		9-22-69	NM-7		
27S/23E-01R05 M	267.0	8-27-69	270.9	-3.9	5000
		9-22-69	251.6	15.4	
27S/23E-06L01 M	258.0	4-01-69	NM-9		5121
28S/23E-11E01 M	255.0	10-02-68	35.5	219.5	5640
		11-01-68	34.1	220.9	
		12-02-68	35.6	219.4	
		1-03-69	34.2	220.8	
		1-31-69	34.6	220.4	
		3-04-69	33.8	221.2	
		4-01-69	36.2	218.8	
		5-02-69	34.7	220.3	
		6-03-69	33.6	221.4	
		7-01-69	31.8	223.2	
		8-06-69	37.0	218.0	
		9-03-69	37.2	217.8	
29S/24E-14R01 M	290.0	2-10-69	123.0	167.0	5121

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
AVENAL-McKITTRICK AREA		5-22.44			
23S/18E-29E02 M	560.0	10-17-68	136.4	423.6	5000
		11-19-68	136.5	423.5	
		12-19-68	137.5	422.5	
		1-14-69	NM-7		
		2-13-69	137.7	422.3	
		3-21-69	NM-1		
		4-29-69	146.8	413.2	
		5-22-69	137.2	422.8	
		6-25-69	138.8	421.2	
		7-29-69	138.0	422.0	
		8-28-69	138.5	421.5	
		9-23-69	139.7	420.3	
23S/19E-26M01 M	267.0	10-30-68	NM-1		5050
		12-02-68	74.0	193.0	
		1-06-69	67.5	199.5	
		2-03-69	NM-9		
		3-07-69	67.7	199.3	
		3-26-69	68.0	199.0	
		5-06-69	NM-9		
		6-04-69	NM-9		
		7-08-69	66.9	200.1	
		8-05-69	NM-7		
		9-02-69	66.8	200.2	
25S/19E-15Q01 M	422.0	4-01-69	NM-9		5121
25S/19E-20Q02 M	480.0	10-17-68	133.6	346.4	5000
		11-19-68	132.1	347.9	
		12-19-68	131.6	348.4	
		1-15-69	NM-7		
		2-12-69	NM-1		
		3-21-69	NM-1		
		4-29-69	NM-1		
		5-22-69	NM-1		
		6-25-69	148.3	331.7	
		7-29-69	128.1	351.9	
		8-28-69	129.5	350.5	
		9-23-69	130.0	350.0	
25S/20E-04C01 M	268.0	4-01-69	NM-5		5121
26S/17E-13L02 M	910.0	3-31-69	NM-9		5121
26S/18E-16H01 M	685.0	4-01-69	NM-0		5121
26S/18E-19B02 M	875.0	4-01-69	NM-9		5121
26S/18E-27P01 M	730.0	4-01-69	NM-0		5121
26S/19E-12L01 M	530.0	4-01-69	NM-0		5121
27S/18E-15R01 M	1220.0	4-01-69	NM-9		5121
28S/22E-20M01 M	290.0	10-30-68	56.8	233.2	5050
		12-02-68	56.1	233.9	
		1-08-69	NM-7		
		2-05-69	NM-7		
		3-07-69	NM-7		
		3-26-69	69.5	220.5	
		5-06-69	69.3	220.7	
		6-04-69	65.5	224.5	
		7-09-69	68.0	222.0	
		8-06-69	60.8	229.2	
		9-04-69	62.6	227.4	
TULARE LAKE-LOST HILLS AREA		5-22.45			
22S/19E-18P02 M	255.0	10-30-68	181.5	73.5	5050
		12-02-68	178.5	76.5	
		1-06-69	176.0	79.0	
		2-03-69	177.0	78.0	
		3-07-69	177.0	78.0	
		3-26-69	178.0	77.0	
		5-06-69	NM-1		
		6-04-69	NM-1		
		7-08-69	NM-1		
		8-05-69	186.5	68.5	
		9-02-69	183.5	71.5	
22S/21E-01J01 M	185.5	10-01-68	189.5	-4.0	5050
		11-07-68	187.5	-2.0	
		12-12-68	184.0	1.5	
		1-03-69	184.5	1.0	
		1-31-69	180.5	5.0	
		3-03-69	177.5	8.0	
		4-07-69	152.5	33.0	
		4-29-69	NM-0		
23S/19E-14R01 M	235.0	10-30-68	40.0	195.0	5050
		12-02-68	39.6	195.4	
		1-06-69	39.6	195.4	
		2-03-69	NM-9		
		3-07-69	39.6	195.4	
		3-26-69	39.5	195.5	
		5-06-69	39.6	195.4	
		6-04-69	39.5	195.5	
		7-08-69	39.5	195.5	
		8-05-69	[illegible].7	192.3	
		9-02-69	[illegible].5	195.5	
24S/20E-21N02 M	233.0	10-30-68	29.4	203.6	5000
		12-02-68	[illegible].3	203.7	
		1-08-69	[illegible].1	203.9	
		2-05-69	[illegible].1	203.9	
		3-07-69	[illegible].8	204.2	
		3-26-69	[illegible].9	204.1	
		5-06-69	[illegible].	204.5	

S 197

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TULARE LAKE-LOST HILLS AREA			5-22.45		
24S/20E-21N02 M (Cont.)	233.0	6-04-69	28.8	204.2	5000
		7-08-69	28.7	204.3	
		8-05-69	NM-2		
		9-03-69	28.7	204.3	
24S/21E-15J01 M	211.0	10-01-68	21.5	189.5	5050
		11-07-68	21.6	189.4	
		12-12-68	21.2	189.8	
		1-03-69	21.3	189.7	
		1-31-69	NM-9		
		3-03-69	NM-9		
		4-07-69	NM-9		
		4-29-69	NM-9		
		6-10-69	NM-0		
24S/21E-26R01 M	210.0	10-01-68	20.8	189.2	5050
		11-07-68	21.0	189.0	
		12-12-68	20.8	189.2	
		1-03-69	20.8	189.2	
		1-31-69	NM-9		
		3-03-69	NM-9		
		4-07-69	NM-9		
		4-29-69	19.5	190.5	
		6-10-69	NM-0		
24S/22E-28A02 M	207.0	10-01-68	263.0	-56.0	5050
		11-07-68	238.0	-31.0	
		12-12-68	220.5	-13.5	
		1-03-69	211.0	-4.0	
		1-31-69	NM-9		
		3-03-69	NM-9		
		4-07-69	NM-9		
		4-29-69	165.0	42.0	
		6-10-69	190.5	17.0	
		7-03-69	195.0	12.0	
		8-04-69	227.0	-20.0	
		8-29-69	220.5	-13.5	
24S/22E-35E01 M	213.0	10-01-68	NM-1		5050
		11-07-68	247.0	-34.0	
		12-12-68	222.5	-9.5	
		1-03-69	212.0	1.0	
		1-31-69	193.0	20.0	
		3-03-69	177.0	36.0	
		4-07-69	163.0	50.0	
		4-29-69	NM-1		
		6-10-69	NM-1		
		7-03-69	NM-1		
		8-04-69	NM-1		
		8-29-69	NM-1		
25S/21E-30K01 M	237.5	10-30-68	35.5	202.0	5050
		12-02-68	36.9	200.6	
		1-08-69	36.8	200.7	
		2-05-69	NM-9		
		3-07-69	NM-9		
		3-26-69	NM-9		
		5-06-69	36.4	201.1	
		6-04-69	36.4	201.1	
		7-08-69	36.3	201.2	
		8-05-69	36.3	201.2	
		9-04-69	36.4	201.1	
26S/21E-22D01 M	281.0	10-30-68	NM-1		5050
		12-02-68	71.0	210.0	
		1-08-69	71.4	209.6	
		2-05-69	64.1	216.9	
		3-07-69	NM-9		
		3-26-69	70.1	210.9	
		5-06-69	61.3	219.7	
		6-04-69	68.1	212.9	
		7-08-69	NM-9		
		8-05-69	74.8	206.2	
		9-04-69	67.5	213.5	
CORCORAN IRRIGATION DISTRICT			5-22.46		
20S/22E-35R01 M	216.0	7-03-69	41.2	174.8	5050
		8-04-69	46.0	170.0	
		8-29-69	39.5	176.5	
21S/22E-16L02 M	196.5	10-01-68	45.5	151.0	5050
		11-07-68	50.0	146.5	
		12-12-68	40.5	156.0	
		1-03-69	40.3	156.2	
		1-31-69	42.8	153.7	
		3-03-69	NM-9		
		4-07-69	35.0	161.5	
		4-29-69	NM-0		
21S/22E-21P01 M	192.0	10-01-68	NM-7		5050
		11-07-68	188.8	3.2	
		12-12-68	NM-1		
		1-03-69	190.0	2.0	
		1-31-69	181.0	11.0	
		3-03-69	NM-9		
		4-07-69	146.0	46.0	
		4-29-69	NM-0		
21S/22E-27A01 M	196.0	10-01-68	20.9	175.1	5050
		11-07-68	18.9	177.1	
		12-12-68	18.7	177.3	
		1-03-69	19.5	176.5	
		1-31-69	25.0	171.0	
		3-03-69	16.3	179.7	
		4-07-69	16.6	179.4	
		4-29-69	16.8	179.2	
CORCORAN IRRIGATION DISTRICT			5-22 46		
21S/22E-27A01 M (Cont.)	196.0	6-10-69	16.0	180.0	5050
		7-03-69	16.5	179.5	
		8-04-69	15.3	180.7	
		8-29-69	15.0	181.0	
22S/22E-01B02 M	201.0	10-01-68	18.5	182.5	5050
		11-07-68	15.4	185.6	
		12-12-68	16.4	184.6	
		1-03-69	19.0	182.0	
		1-31-69	13.7	187.3	
		3-03-69	18.1	182.9	
		4-07-69	14.8	186.2	
		4-29-69	14.5	186.5	
		6-10-69	NM-1		
		7-03-69	13.5	187.5	
		8-04-69	13.2	187.8	
		8-29-69	12.5	188.5	
22S/22E-05L01 M	188.0	10-01-68	189.0	-1.0	5050
		11-07-68	182.0	6.0	
		12-12-68	181.5	6.5	
		1-03-69	184.0	4.0	
		1-31-69	175.0	13.0	
		3-03-69	NM-9		
		4-07-69	NM-4		
		4-29-69	NM-0		
22S/22E-10A01 M	192.0	7-03-69	125.6	66.4	5050
		8-04-69	118.6	73.4	
		8-29-69	116.0	76.0	
22S/22E-13P01 M	193.0	10-01-68	18.9	174.1	5050
		11-07-68	16.9	176.1	
		12-12-68	16.8	176.2	
		1-03-69	15.9	177.1	
		1-31-69	14.5	178.5	
		3-03-69	15.0	178.0	
		4-07-69	NM-9		
		4-29-69	12.8	180.2	
		6-10-69	12.0	181.0	
		7-03-69	11.9	181.1	
		8-04-69	11.6	181.4	
		8-29-69	11.1	181.9	
22S/22E-15C01 M	191.0	10-01-68	175.5	15.5	5050
		11-07-68	173.5	17.5	
		12-12-68	168.0	23.0	
		1-03-69	166.5	24.5	
		1-31-69	163.5	27.5	
		3-03-69	152.5	38.5	
		4-07-69	139.5	51.5	
		4-29-69	132.5	58.5	
		6-10-69	121.5	69.5	
		7-03-69	118.5	72.5	
		8-04-69	114.5	76.5	
		8-29-69	113.1	77.9	
22S/22E-22H01 M	191.0	7-03-69	110.0	81.0	5050
		8-04-69	119.5	71.5	
		8-29-69	127.5	63.5	
MENDOTA-HURON AREA			5-22.47		
13S/12E-22N01 M	280.0	10-18-68	177.6	102.4	5001
		3-14-69	145.1	134.9	
13S/13E-12A01 M	183.0	10-18-68	NM-0		5001
14S/12E-12H01 M	338.0	10-21-68	541.1	-203.1	5000
		11-19-68	534.5	-196.5	
		12-19-68	535.1	-197.1	
		1-13-69	530.2	-192.2	
		2-11-69	525.1	-187.1	
		3-11-69	518.2	-180.2	
		4-08-69	527.1	-189.1	
		5-06-69	531.3	-193.3	
		6-27-69	535.5	-197.5	
		7-31-69	528.3	-190.3	
		8-27-69	523.4	-185.4	
		9-24-69	516.2	-173.2	
14S/13E-15M01 M	321.0	12-16-68	454.0	-133.0	5050
14S/14E-28E02 M	248.0	10-21-68	53.0	195.0	5000
		2-13-69	NM-3		
14S/15E-18E02 M	178.0	12-20-68	221.0	-43.0	5050
14S/15E-35N01 M	161.0	2-12-69	NM-9		5001
15S/13E-11D02 M	345.0	10-21-68	580.3	-235.3	5000
		11-19-68	570.0	-225.0	
		12-19-68	552.2	-207.2	
		1-13-69	549.2	-204.2	
		2-11-69	548.8	-203.8	
		3-11-69	526.6	-181.6	
		4-08-69	528.8	-183.8	
		5-06-69	541.8	-196.8	
		6-27-69	561.7	-216.7	
		7-31-69	578.8	-233.8	
		8-27-69	582.9	-237.9	
		9-24-69	553.1	-208.1	
15S/14E-15E04 M	236.0	12-18-68	419.6	-193.6	5000
		11-20-68	405.0	-169.0	
		12-20-68	391.0	-155.0	
		1-13-69	NM-7		
		2-13-69	380.0	-144.0	

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MENDOTA-HURON AREA		5-22.47			
15S/14E-15E04 M (Cont.)	236.0	3-22-69	399.8	-163.8	5000
		4-30-69	361.5	-125.5	
		5-23-69	366.4	-130.4	
		6-27-69	376.4	-140.4	
		7-30-69	382.2	-146.2	
		8-29-69	390.1	-154.1	
		9-24-69	390.2	-154.2	
15S/15E-22Q01 M	176.0	2-13-69	117.4	58.6	5001
15S/16E-17L01 M	165.0	10-18-68	45.8	119.2	5000
		11-20-68	45.3	119.7	
		12-20-68	43.5	121.5	
		1-13-69	NM-7		
		2-13-69	43.5	121.5	
		3-22-69	43.0	122.0	
		4-30-69	43.6	121.4	
		5-23-69	43.8	121.2	
		6-27-69	47.0	118.0	
		7-30-69	44.2	120.8	
		8-29-69	45.2	119.8	
		9-24-69	44.4	120.6	
15S/16E-20R01 M	170.0	10-18-68	83.0	84.5	5000
		2-11-69	72.9	94.6	
15S/16E-28A04 M	169.0	10-18-68	182.9	-13.9	5000
		11-20-68	189.3	-20.3	
		12-20-68	185.9	-16.9	
		1-13-69	NM-7		
		2-13-69	188.0	-19.0	
		3-22-69	176.0	-7.0	
		4-30-69	172.0	-3.0	
		5-23-69	173.2	-4.2	
		6-27-69	172.4	-3.4	
		7-30-69	173.7	-4.7	
		8-29-69	175.1	-6.1	
		9-24-69	176.1	-7.1	
16S/15E-02N02 M	219.0	2-18-69	63.3	155.7	5001
16S/15E-34N04 M	334.0	10-21-68	575.1	-241.1	5000
		11-19-68	570.6	-236.6	
		12-19-68	563.2	-229.2	
		1-13-69	572.2	-238.2	
		2-11-69	554.5	-220.5	
		3-11-69	532.1	-198.1	
		4-08-69	524.4	-190.4	
		5-06-69	535.2	-201.2	
		6-27-69	557.6	-223.6	
		7-31-69	570.3	-236.3	
		8-27-69	567.2	-233.2	
		9-24-69	545.9	-211.9	
16S/16E-10N01 M	187.0	2-11-69	125.2	61.8	5001
17S/14E-13R01 M	457.0	12-18-68	NM-1		5050
17S/16E-02E01 M	218.0	2-05-69	NM-6		5001
17S/16E-24R01 M	232.5	10-18-68	193.5	39.0	5000
		2-13-69	172.3	60.2	
17S/16E-30A03 M	290.0	10-18-68	67.9	222.1	5000
		11-20-68	68.3	221.7	
		12-20-68	68.9	221.1	
		1-14-69	NM-7		
		2-13-69	67.3	222.7	
		3-22-69	67.8	222.2	
		4-30-69	64.5	225.5	
		5-23-69	66.8	223.2	
		6-27-69	66.0	224.0	
		7-30-69	66.0	224.0	
		8-29-69	65.9	224.1	
		9-24-69	65.9	224.1	
17S/16E-30A06 M	302.0	10-18-68	521.3	-219.3	5000
		11-20-68	515.9	-213.9	
		12-20-68	509.5	-207.5	
		1-14-69	NM-7		
		2-13-69	499.0	-197.0	
		3-22-69	483.2	-181.2	
		4-30-69	488.0	-186.0	
		5-23-69	471.2	-169.2	
		6-27-69	473.4	-171.4	
		7-30-69	472.1	-170.1	
		8-29-69	480.3	-178.9	
		9-24-69	493.9	-191.9	
17S/17E-20N01 M	228.0	12-23-68	354.0	-126.0	5050
18S/17E-12N01 M	253.0	12-18-68	NM-7		5050
19S/18E-15M01 M	274.0	12-20-68	391.3	-117.3	5050
19S/18E-27M01 M	281.0	10-17-68	NM-7		5000
		11-19-68	384.5	-103.5	
		12-19-68	NM-7		
		1-14-69	NM-7		
		2-13-69	NM-7		
		3-21-69	NM-7		
		4-29-69	NM-0		
20S/17E-32F01 M	447.0	12-18-68	606.4	-159.4	5050
MENDOTA-HURON AREA (Cont.)		5-22.47			
20S/18E-06D01 M	317.9	10-22-68	536.7	-218.8	5000
		11-20-68	518.2	-200.3	
		12-19-68	519.8	-201.9	
		1-14-69	518.6	-200.7	
		2-12-69	518.6	-200.7	
		3-12-69	518.7	-200.8	
		4-09-69	503.4	-185.5	
		5-06-69	498.4	-180.5	
		6-27-69	520.5	-202.6	
		7-30-69	537.2	-220.3	
		8-27-69	543.5	-225.6	
		9-23-69	534.7	-216.8	
20S/18E-11N01 M	277.0	12-19-68	NM-1		5050
20S/18E-11Q01 M	270.0	10-22-68	480.7	-210.7	5000
		11-19-68	464.0	-194.0	
		12-19-68	465.2	-195.2	
		1-14-69	477.0	-207.0	
		2-14-69	432.3	-162.3	
		3-12-69	414.3	-144.3	
		4-09-69	410.9	-140.9	
		5-07-69	423.2	-153.2	
		6-27-69	448.4	-178.4	
		7-30-69	457.6	-187.6	
		8-27-69	458.5	-188.5	
		9-23-69	462.4	-192.4	
20S/18E-36D01 M	260.0	10-18-68	299.6	-39.6	5000
		2-13-69	291.0	-31.0	
21S/17E-22G01 M	577.0	12-18-68	538.7	38.3	5050
21S/18E-28M02 M	363.0	10-17-68	339.5	23.5	5000
		2-13-69	344.0	19.0	
POSO SOIL CONSERVATION DIST.		5-22.48			
10S/13E-06R01 M	110.0	10-01-68	15.2	94.8	5529
		11-02-68	12.7	97.3	
		12-09-68	12.7	97.3	
		1-04-69	12.6	97.4	
		2-06-69	11.3	98.7	
		3-06-69	8.5	101.5	
		4-05-69	8.7	101.3	
		5-06-69	7.2	102.8	
		6-04-69	5.3	104.7	
		7-03-69	12.0	98.0	
		8-01-69	9.6	100.4	
		9-05-69	5.5	104.5	
11S/13E-05Q01 M	117.0	10-01-68	13.1	103.9	5529
		11-02-68	12.1	104.9	
		12-09-68	12.4	104.6	
		1-04-69	12.2	104.8	
		2-06-69	11.3	105.7	
		3-06-69	10.5	106.5	
		4-05-69	11.1	105.9	
		5-06-69	7.9	109.1	
		6-04-69	9.2	107.8	
		7-03-69	12.0	105.0	
		8-01-69	9.8	107.2	
		9-05-69	8.8	108.2	
11S/13E-26A01 M	128.0	10-01-68	14.7	113.3	5529
		11-02-68	12.6	115.4	
		12-09-68	12.6	115.4	
		1-04-69	12.0	116.0	
		2-06-69	11.2	116.8	
		3-06-69	9.7	118.3	
		4-05-69	9.4	118.6	
		5-06-69	10.3	117.7	
		6-04-69	7.5	120.5	
		7-03-69	10.3	117.7	
		8-01-69	11.2	116.8	
		9-05-69	9.4	118.6	
11S/13E-33L01 M	126.0	10-01-68	9.3	116.7	5529
		11-02-68	9.5	116.5	
		12-09-68	9.9	116.1	
		1-04-69	10.5	115.5	
		2-06-69	9.8	116.2	
		3-06-69	5.9	120.1	
		4-05-69	7.1	118.9	
		5-06-69	6.8	119.2	
		6-04-69	7.0	119.0	
		7-03-69	11.6	114.4	
		8-01-69	8.1	117.9	
		9-05-69	8.0	118.0	
12S/13E-13J01 M	140.0	10-01-68	8.1	131.9	5529
		11-02-68	10.2	129.8	
		12-09-68	10.8	129.2	
		1-04-69	10.2	129.8	
		2-06-69	6.7	133.3	
		3-06-69	5.4	134.6	
		4-05-69	6.2	133.8	
		5-06-69	6.4	133.6	
		6-04-69	5.8	134.2	
		7-03-69	10.0	130.0	
		8-01-69	6.6	133.4	
		9-05-69	6.3	133.7	

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TERRA BELLA IRRIGATION DISTRICT			5-22.50		
22S/27E-25J03 M	532.0	10-22-68	105.8	426.2	5001
		11-26-68	104.2	427.8	
		12-20-68	102.8	429.2	
		1-21-69	95.2	436.8	
		2-20-69	96.8	435.2	
		3-25-69	98.2	433.8	
		4-23-69	96.9	435.1	
		5-26-69	106.7	425.3	
		6-19-69	106.6	425.4	
		7-29-69	108.4	423.6	
		8-19-69	109.0	423.0	
		9-24-69	110.7	421.3	
23S/27E-01A01 M	506.0	10-22-68	86.3	419.7	5001
		11-26-68	NM-3		
		12-20-68	NM-3		
		1-21-69	83.5	422.5	
		2-20-69	84.9	421.1	
		3-25-69	81.5	424.5	
		4-23-69	NM-3		
		5-26-69	80.4	425.6	
		6-19-69	80.4	425.6	
		7-29-69	NM-3		
		8-19-69	81.3	424.7	
		9-23-69	81.5	424.5	
23S/27E-05A01 M	450.0	10-22-68	169.8	280.2	5001
		11-26-68	164.0	286.0	
		12-20-68	163.4	286.6	
		1-21-69	164.1	285.9	
		2-20-69	163.9	286.1	
		3-25-69	162.3	287.7	
		4-23-69	166.9	283.1	
		5-26-69	NM-1		
		6-19-69	NM-1		
		7-29-69	NM-1		
		8-19-69	NM-1		
		9-23-69	NM-1		
MERCED BOTTOMS			5-22.54		
7S/10E-23K01 M	80.0	10-02-68	16.6	63.4	5050
		11-06-68	13.0	67.0	
		12-04-68	9.3	70.7	
		1-06-69	5.5	74.5	
		2-06-69	2.3	77.7	
		3-05-69	NM-9		
		4-08-69	1.2	78.8	
		5-05-69	1.8	78.2	
		6-03-69	3.9	76.1	
		7-07-69	4.2	75.8	
		8-05-69	9.2	70.8	
		9-03-69	9.4	70.6	
7S/10E-23K02 M	80.0	10-02-68	3.4	76.6	5050
		11-06-68	3.4	76.6	
		12-04-68	3.6	76.4	
		1-06-69	2.5	77.5	
		2-06-69	0.5	79.5	
		3-05-69	NM-9		
		4-08-69	0.9	79.1	
		5-05-69	1.1	78.9	
		6-03-69	3.3	76.7	
		7-07-69	3.6	76.4	
		8-05-69	4.2	75.8	
		9-03-69	4.7	75.3	
7S/12E-27P01 M	110.5	11-06-68	9.5	101.0	5050
		12-11-68	9.5	101.0	
		1-02-69	9.5	101.0	
		1-30-69	3.8	106.7	
		3-05-69	NM-9		
		4-04-69	4.4	106.1	
		5-01-69	6.0	104.5	
		6-02-69	7.3	102.7	
		7-01-69	9.4	101.1	
		8-12-69	10.4	100.1	
		9-10-69	12.2	99.3	
8S/12E-19D01 M	90.0	11-06-68	21.5	68.5	5050
		12-11-68	17.0	73.0	
		1-02-69	15.5	74.5	
		1-30-69	NM-9		
		3-05-69	NM-9		
		4-04-69	7.0	83.0	
		5-01-69	7.0	83.0	
		6-02-69	7.3	82.7	
		7-01-69	8.2	81.8	
		8-12-69	11.2	78.8	
		9-10-69	12.0	78.0	
9S/12E-01C01 M	110.5	11-06-68	30.6	79.9	5050
		12-11-68	NM-7		
		1-02-69	35.5	75.0	
		1-30-69	NM-9		
		3-05-69	NM-9		
		4-04-69	NM-7		
		5-01-69	NM-1		
		6-02-69	NM-1		
		7-01-69	NM-1		
		8-12-69	NM-1		
		9-10-69	NM-1		
9S/14E-01B01 M	180.0	11-06-68	85.9	94.1	5050
		12-11-68	69.5	110.5	
		1-02-69	65.0	115.0	
MERCED BOTTOMS (Cont.)			5-22.54		
9S/14E-01B01 M	180.0	1-30-69	59.2	120.8	5050
		3-05-69	59.0	121.0	
		4-04-69	54.5	125.5	
		5-01-69	57.0	123.0	
		6-02-69	77.5	102.5	
		7-01-69	96.5	83.5	
		8-12-69	104.5	75.5	
		9-10-69	103.0	77.0	
9S/14E-01B02 M	180.0	11-06-68	80.9	99.1	5050
		12-11-68	68.5	111.5	
		1-02-69	64.0	116.0	
		1-30-69	61.0	119.0	
		3-05-69	56.0	124.0	
		4-04-69	53.0	127.0	
		5-01-69	54.2	125.8	
		6-02-69	72.5	107.5	
		7-01-69	89.5	90.5	
		8-12-69	97.5	82.5	
		9-10-69	96.9	83.1	
9S/14E-01B03 M	180.0	11-06-68	39.7	140.3	5050
		12-11-68	41.5	138.5	
		1-02-69	42.0	138.0	
		1-30-69	40.5	139.5	
		3-05-69	38.0	142.0	
		4-04-69	36.8	143.2	
		5-01-69	38.5	141.5	
		6-02-69	36.4	143.6	
		7-01-69	36.8	143.2	
		8-12-69	37.1	142.9	
		9-10-69	39.2	140.8	
9S/14E-06D01 M	141.0	11-06-68	46.2	94.8	5050
		12-11-68	45.3	95.7	
		1-02-69	44.0	97.0	
		1-30-69	44.0	97.0	
		3-05-69	42.0	99.0	
		4-04-69	NM-7		
		5-01-69	42.0	99.0	
		6-02-69	39.9	101.1	
		7-01-69	39.8	101.2	
		8-12-69	38.9	102.1	
		9-10-69	40.5	100.5	
GARFIELD WATER DISTRICT			5-22.65		
12S/20E-13A01 M	388.0	10-01-68	117.0	271.0	5001
		11-02-68	115.8	272.2	
		11-29-68	114.0	274.0	
		1-01-69	113.0	275.0	
		2-01-69	112.4	275.6	
		3-01-69	111.8	276.2	
		4-01-69	111.2	276.8	
		5-02-69	111.4	276.6	
		6-02-69	113.5	274.5	
		7-01-69	113.6	274.4	
		8-01-69	115.3	272.7	
		9-01-69	115.0	273.0	
12S/21E-07A02 M	405.5	10-01-68	141.8	263.7	5001
		11-02-68	138.8	266.7	
		11-29-68	137.3	268.2	
		1-01-69	135.5	270.0	
		2-01-69	134.5	271.0	
		3-01-69	134.2	271.3	
		4-01-69	132.6	272.9	
		5-02-69	131.9	273.6	
		6-02-69	132.2	273.3	
		7-01-69	132.4	273.1	
		8-01-69	NM-7		
		9-01-69	130.4	275.1	
12S/21E-18A03 M	390.5	10-01-68	104.6	285.9	5001
		11-02-68	102.8	287.7	
		11-29-68	101.5	289.0	
		1-01-69	101.1	289.4	
		2-01-69	100.3	290.2	
		3-01-69	100.7	289.8	
		4-01-69	103.0	287.5	
		5-02-69	100.0	290.5	
		6-02-69	99.4	291.1	
		7-01-69	99.4	291.1	
		8-01-69	102.7	287.8	
		9-01-69	100.7	289.8	
KINGS COUNTY WATER DISTRICT			5-22.66		
17S/20E-36R02 M	243.0	11-07-68	15.4	227.6	5129
		12-01-68	16.0	227.0	
		1-01-69	20.5	222.5	
		1-00-69	NM-7		
		3-01-69	17.0	226.0	
		3-29-69	14.9	228.1	
		5-03-69	21.1	221.9	
		5-30-69	31.4	211.6	
		7-06-69	11.1	231.9	
		8-03-69	10.5	232.5	
		9-02-69	11.8	231.2	
		9-20-69	11.6	231.4	
17S/22E-11P01 M	283.0	11-07-68	25.9	257.1	5129
		12-01-68	24.5	258.5	
		1-01-69	24.9	258.1	
		1-00-69	NM-7		

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATION NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KINGS COUNTY WATER DISTRICT			5-22.66		
17S/22E-11P01 M (Cont.)	283.0	3-01-69	21.9	261.1	5129
		3-29-69	21.5	261.5	
		5-03-69	22.5	260.5	
		5-30-69	21.6	261.4	
		7-06-69	NM-1		
		8-03-69	18.8	264.2	
		9-02-69	NM-7		
		9-20-69	16.9	266.1	
17S/22E-35N01 M	266.0	11-07-68	44.1	221.9	5129
		12-01-68	41.7	224.3	
		1-01-69	43.5	222.5	
		1-00-69	NM-7		
		3-01-69	31.0	235.0	
		3-29-69	36.7	229.3	
		5-03-69	37.1	228.9	
		5-30-69	37.2	228.8	
		7-06-69	37.4	228.6	
		8-03-69	38.1	227.9	
		9-02-69	34.6	231.4	
		9-20-69	33.0	233.0	
18S/21E-17N01 M	238.0	11-07-68	9.6	228.4	5129
		12-01-68	10.5	227.5	
		1-01-69	10.5	227.5	
		1-00-69	NM-7		
		3-01-69	9.6	228.4	
		3-29-69	10.0	228.0	
		5-03-69	7.4	230.6	
		5-30-69	6.8	231.2	
		7-06-69	6.5	231.5	
		8-03-69	7.0	231.0	
		9-02-69	7.0	231.0	
		9-23-69	7.3	230.7	
18S/22E-21N01 M	258.0	11-07-68	86.0	172.0	5129
		12-01-68	84.0	174.0	
		1-01-69	84.8	173.2	
		1-00-69	NM-7		
		3-01-69	73.8	184.2	
		3-29-69	82.5	175.5	
		5-03-69	78.0	180.0	
		5-30-69	77.3	180.7	
		7-06-69	NM-9		
		8-03-69	NM-9		
		9-02-69	NM-9		
		9-30-69	77.4	180.6	
18S/22E-36P01 M	245.0	10-29-68	101.4	143.6	5001
		11-26-68	94.6	150.4	
		12-30-68	93.4	151.6	
		1-28-69	NM-9		
		3-03-69	NM-9		
		3-31-69	83.5	161.5	
		5-05-69	84.6	160.4	
		5-29-69	85.2	159.8	
		7-02-69	91.5	153.5	
		7-30-69	92.5	152.5	
		8-27-69	94.1	150.9	
		9-25-69	85.5	159.5	
18S/23E-28B01 M	263.0	11-07-68	96.4	166.6	5129
		12-01-68	104.6	158.4	
		1-01-69	105.9	157.1	
		1-00-69	NM-7		
		3-01-69	86.7	176.3	
		3-29-69	89.9	173.1	
		5-03-69	88.2	174.8	
		5-30-69	92.0	171.0	
		7-06-69	91.1	171.9	
		8-03-69	NM-1		
		9-02-69	NM-1		
		9-30-69	91.5	171.5	
19S/21E-20N01 M	225.0	10-31-68	9.5	215.5	5129
		11-07-68	9.5	215.5	
		12-01-68	13.6	211.4	
		1-01-69	14.1	210.9	
		1-00-69	NM-7		
		3-01-69	11.5	213.5	
		3-29-69	13.5	211.5	
		5-03-69	9.3	215.7	
		5-30-69	8.2	216.8	
		7-06-69	6.8	218.2	
		8-03-69	6.4	218.6	
		9-02-69	6.4	218.6	
		9-30-69	7.8	217.2	
19S/22E-04P01 M	245.0	10-13-68	76.3	168.7	5129
		11-07-68	98.8	146.2	
		12-01-68	93.0	152.0	
		1-01-69	93.4	151.6	
		1-00-69	NM-7		
		3-01-69	83.4	161.6	
		3-29-69	NM-1		
		5-03-69	89.5	155.5	
		5-30-69	82.4	162.6	
		7-06-69	88.2	156.8	
		8-03-69	86.0	159.0	
		9-02-69	NM-9		
		9-30-69	80.4	164.6	
19S/22E-19A01 M	235.0	10-21-68	109.0	126.0	5001
		11-25-68	98.5	136.5	
		12-19-68	95.0	140.0	
		1-20-69	92.5	142.5	
		2-19-69	91.2	143.8	
		3-24-69	88.4	146.6	
KINGS COUNTY WATER DISTRICT			5-22.66		
19S/22E-19A01 M (Cont.)	235.0	4-22-69	88.0	147.0	5001
		5-27-69	88.6	146.4	
		6-18-69	95.0	140.0	
		7-28-69	98.6	136.4	
		8-18-69	93.5	136.5	
		9-24-69	85.0	150.0	
19S/22E-23A01 M	240.0	10-13-68	84.6	155.4	5129
		11-07-68	87.4	152.6	
		12-01-68	88.3	151.7	
		1-01-69	89.8	150.2	
		1-00-69	NM-7		
		3-01-69	81.0	159.0	
		3-29-69	86.5	153.5	
		5-03-69	81.9	158.1	
		5-30-69	79.2	160.8	
		7-06-69	86.3	153.7	
		8-03-69	81.3	158.7	
		9-02-69	73.9	166.1	
		9-30-69	73.8	166.2	
20S/21E-03A01 M	222.0	2-21-69	15.2	206.8	5001
20S/21E-05E01 M	219.0	10-13-68	NM-7		5129
		11-07-68	NM-7		
		12-01-68	174.0	45.0	
		1-01-69	175.5	43.5	
		1-00-69	NM-7		
		3-01-69	184.8	34.2	
		3-29-69	159.5	59.5	
		5-03-69	164.8	54.2	
		5-30-69	NM-0		
		7-06-69	149.0	70.0	
		8-03-69	159.0	60.0	
		9-02-69	152.9	66.2	
		9-30-69	137.3	81.7	
20S/22E-10H02 M	225.0	10-13-68	135.4	89.6	5129
		11-07-68	135.9	89.1	
		12-01-68	NM-0		
PLEASANT VALLEY			5-22.69		
20S/15E-25D01 M	619.0	4-02-69	NM-0		5050
20S/15E-32A01 M	675.0	4-02-69	235.0	440.0	5050
21S/16E-02N01 M	570.0	4-01-69	222.0	348.0	5050
21S/16E-07N01 M	634.0	4-01-69	242.0	392.0	5050
21S/16E-35D01 M	682.0	2-00-68	NM-7		5050
		4-01-69	NM-1		

APPENDIX D

SURFACE WATER QUALITY

INTRODUCTION

Appendix D summarizes the surface water quality and electrical conductivity data for the San Joaquin Valley for 1969 water year (October 1, 1968 through September 30, 1969). These data were obtained from analyses of water samples from 28 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources; the U. S. Corps of Engineers; U. S. Forest Service; California Water Quality Control Board - Central Valley Region; and Kern County Department of Parks and Recreation. Electrical conductivity recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The third digit indicates the stream and the next three integers designate the relative number of the station on the stream system. The last two digits denote the location of the sampling station relative to a gaging station.

HYDROGRAPHIC AREA B
SAN JOAQUIN RIVER BASIN

B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C
TULARE LAKE DRAINAGE BASIN

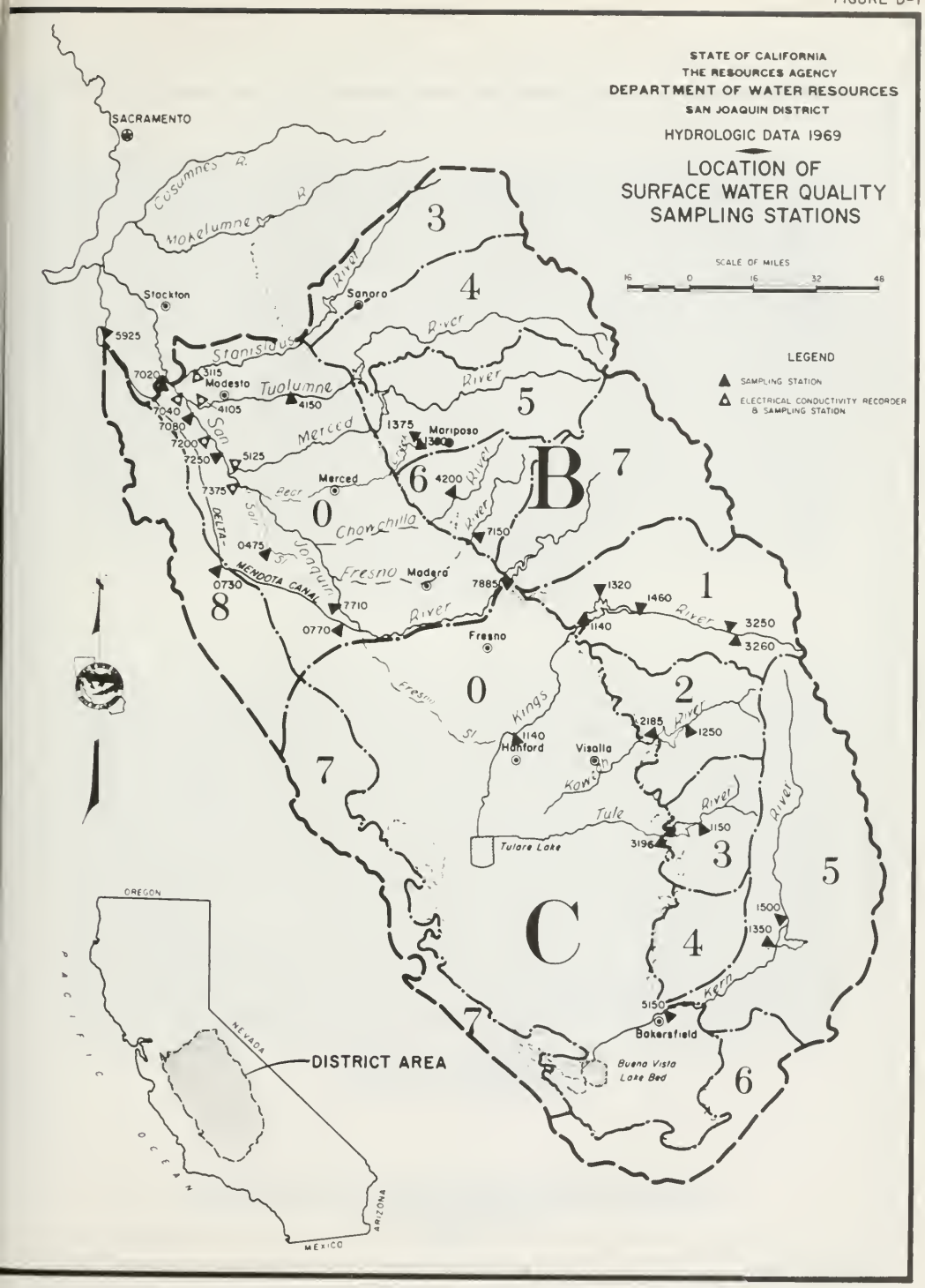
C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side

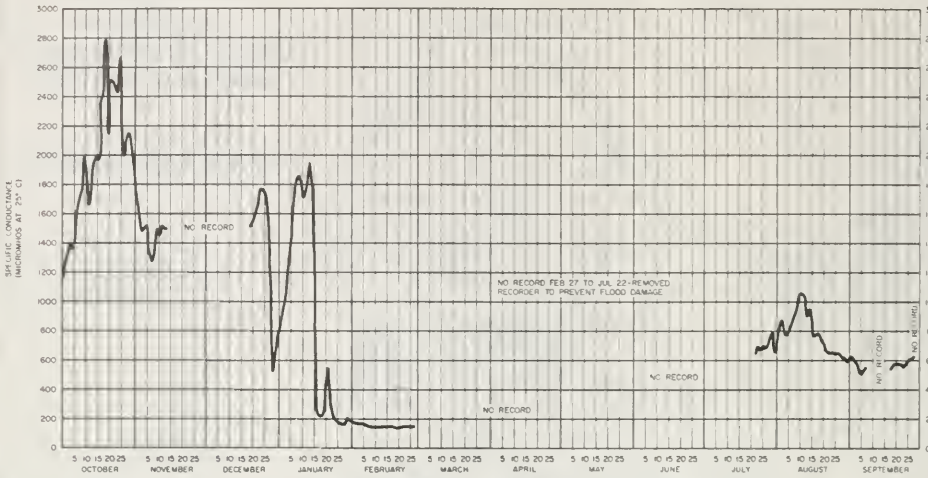
SAMPLING STATION DATA AND INDEX FOR SURFACE WATER

Station	Station Identification Number	Location[a]	Period[b] of Record	Frequency[c] of Sampling	Sampled[d] By	Analysis on Page
Bear Creek at Oak Road	B51375.50	4S/18E-25	September 1969	-	CRWQCB	212, 227
Bear Creek near Bear Creek School	B51380.50	5S/19E-5	July 1969	-	CRWQCB	212, 219
Big Creek above Pine Flat Dam	C11320.00	12S/25E- 4	July 1960	M	USACE	214, 224, 227
Chowchilla River near Raymond	B64200.00	8S/18E- 1	January 1962	S	DWR	208, 222, 224
Delta-Mendota Canal at San Luis	B00730.50	9S/ 8E-36	October 1968	-	DWR	208
Delta-Mendota Canal near Mendota	B00770.00	13S/15E-19	July 1952	Q	DWR	208, 222, 223, 227
Delta-Mendota Canal near Tracy	B95925.00	1S/ 4E-30	July 1952	Q	DWR	212, 222, 224, 227
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	S	DWR	208, 224
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	M	USACE	213, 222, 224, 227
Kaweah River at Three Rivers	C21250.00	17S/28E-27	April 1951	M	USACE	214, 222, 224, 227
Kern River near Bakersfield	C05150.00	29S/28E- 9	April 1951	Q	KCPR	215, 220, 222, 224
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	Q	USACE	216, 222, 224
Kern River at Kernville	C51500.00	25S/33E-15	September 1955	Q	USACE	217, 222, 225
Kings River below North Fork	C11460.00	12S/26E-21	September 1955	M	USACE	215, 222, 224, 227
Kings River below Peoples Weir	C01140.00	17S/22E- 1	April 1951	Q	DWR	213, 219, 222, 224
Kings River below Pine Flat Dam	C11140.00	13S/24E- 2	September 1955	M	USACE	215, 222, 224, 227
Merced River near Stevinson	B05125.00	6S/ 9E-36	April 1951	S	DWR	209, 219, 222, 223, 227
Rattlesnake Creek below Burn	C13250.30	11S/30E-	October 1968	-	USFS	216, 227
Rattlesnake Creek above Burn	C13260.30	11S/30E-	October 1968	-	USFS	216, 227
Salt Slough at San Luis Ranch	B00475.00	9S/11E- 7	November 1958	S	DWR	209, 219, 223
San Joaquin River at Crows Landing Bridge	B07250.00	6S/ 9E- 7	January 1962	Q	DWR	211, 217, 223, 227
San Joaquin River at Fremont Ford Bridge	B07375.00	7S/ 9E-24	July 1955	S	DWR	211, 219, 222, 223, 227
San Joaquin River below Friant	B07885.00	11S/21E- 7	April 1951	S	DWR	211, 219, 224
San Joaquin River near Grayson	B07080.00	4S/ 7E-24	April 1959	Q	DWR	210, 219, 223, 227
San Joaquin River at Maze Road Bridge	B07040.00	3S/ 7E-33	April 1951	S	DWR	210, 219, 223, 227
San Joaquin River near Mendota	B07710.00	13S/15E- 7	April 1951	S	DWR	211, 222, 224
San Joaquin River at Patterson Bridge	B07200.00	5S/ 8E-15	January 1962	S	DWR	211, 219, 223, 227
San Joaquin River near Vernalia	B07020.00	3S/ 6E-13	April 1951	M	DWR	210, 219, 222, 223, 227
Stanislaus River at Koetitz Ranch	B03115.00	3S/ 7E- 2	April 1951	S	DWR	209, 219, 222, 223, 227
Tule River near Springville	C31150.00	21S/29E-15	November 1963	M	USACE	216, 222, 224, 227
Tule River below Success Dam	C03196.00	21S/28E-35	July 1952	M	USACE	213, 220, 222, 224, 227
Tuolumne River at Hickman Bridge	B04150.00	3S/11E-34	April 1951	S	DWR	209, 219, 223
Tuolumne River at Tuolumne City	B04105.00	4S/ 8E-12	April 1951	S	DWR	209, 219, 222, 223, 227

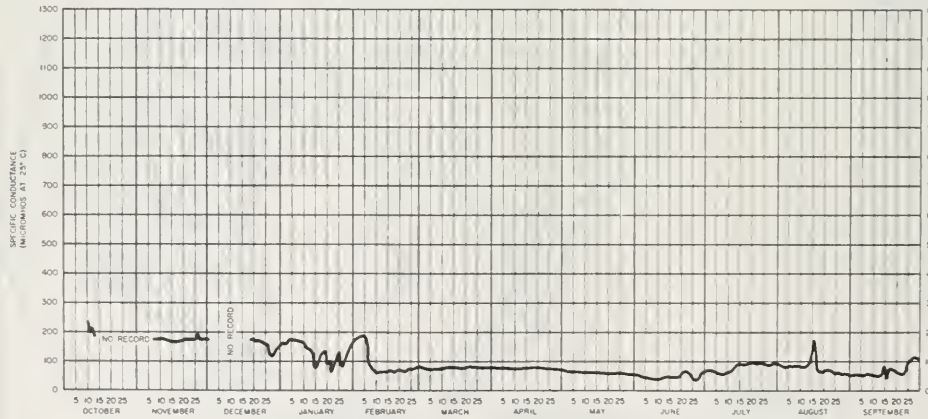
a. Locations are in reference to Mt. Diablo Base and Meridian
b. Beginning of record
c. M - Monthly, Q - Quarterly, S - Semiannually
d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers, KCPR - Kern County Parks and Recreation, USFS - United States Forest Service, CRWQCB - California Regional Water Quality Control Board-Central Valley Region

FIGURE D-1


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1969
LOCATION OF SURFACE WATER QUALITY SAMPLING STATIONS
SCALE OF MILES
16 0 16 32 48
LEGEND
SAMPLING STATION
ELECTRICAL CONDUCTIVITY RECORDER & SAMPLING STATION
SACRAMENTO
Cosumnes R.
Mokelumne R.
Stockton
Sonora
Stanislaus River
Tuolumne River
Merced River
Modesto
Merced
Mariposo
Chowchilla River
Fresno River
Madera
Fresno
Kings River
Hanford
Visalia
Kaweah River
Tule River
Tulare Lake
Kern River
Bakersfield
Buena Vista Lake Bed
San Joaquin River
Bear
Soil
DELTA-MENDOTA CANAL
5925
7020
3115
4105
7040
7080
7200
7250
5125
4150
7375
0475
0730
7710
0770
1375
1380
4200
7150
7885
1320
1460
1140
3250
3260
2185
1250
1140
1150
3196
1500
1350
5150
B
C
0
1
2
3
4
5
6
7
8
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
DISTRICT AREA

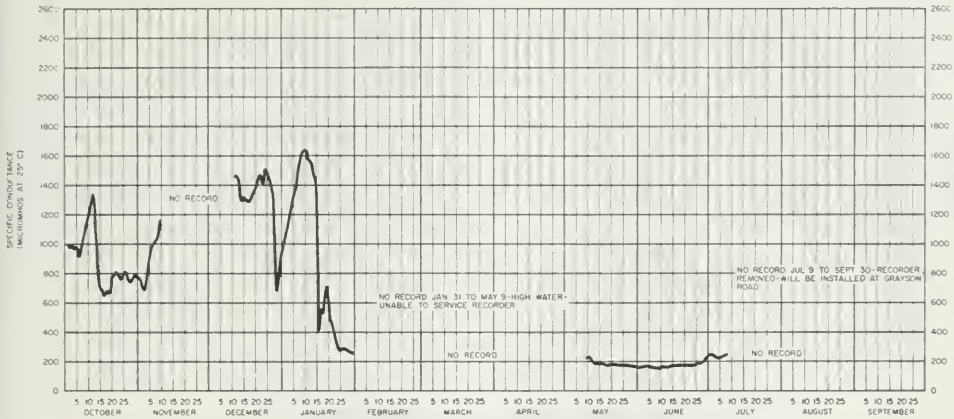


SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
STA. No. B07375.00 RIVER MILE 129.5

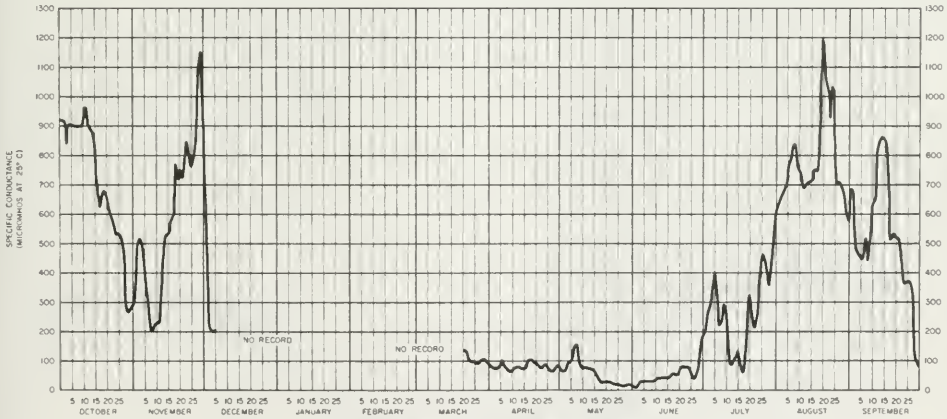


MERCED RIVER NEAR STEVINSON
STA. No. B05125.00 RIVER MILE 11.65

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1969



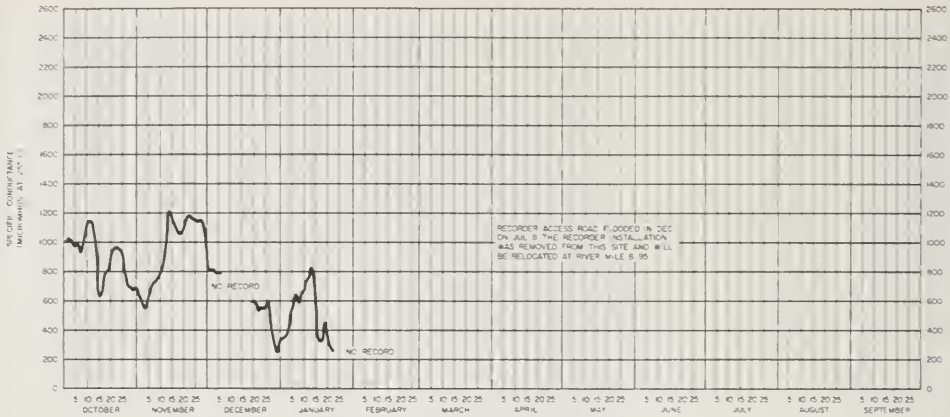
SAN JOAQUIN RIVER AT PATTERSON BRIDGE
STA. No. B07200.00 RIVER MILE 104.5



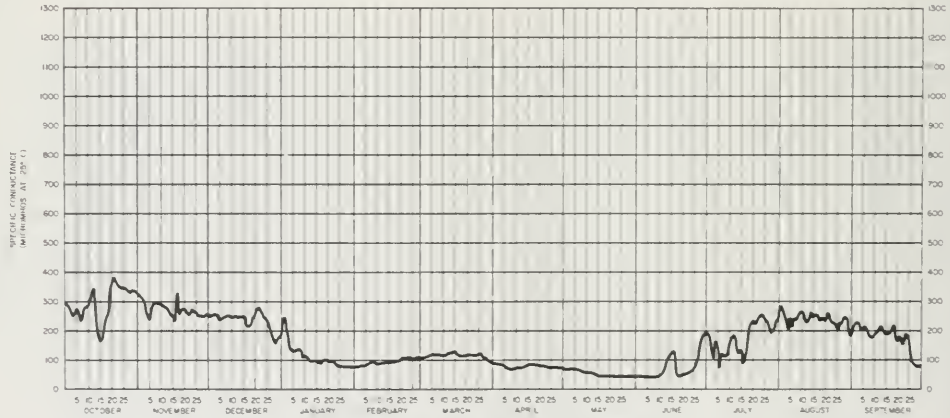
TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1969

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1970



SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 82.9



STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1969

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1970

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources Bryte Laboratory or the U. S. Geological Survey Laboratory in Sacramento. The U. S. Geological Survey Laboratory is coded as 5000 and Bryte Laboratory as 5050.

The sampler codes are as follows:

5002 U. S. Army Corps of Engineers

5005 U. S. Forest Service

5050 Department of Water Resources

5055 California Water Quality Control Board - Central Valley Region

5204 City and County of San Francisco

5633 Kern County Parks and Recreation Department

The following are definitions of chemical symbols and of abbreviations used in this table.

Chemical Symbols		Abbreviations	
B	Boron	SO_4	Sulfate
CA	Calcium	DO	Dissolved Oxygen
CL	Chloride	EC	Electrical Conductance
CO_3	Carbonate	FLD	Field Determination
F	Fluoride	LAB	Laboratory
HCO3	Bicarbonate	NCH	Non Carbonate Hardness
K	Potassium	TDS	Total Dissolved Solids
MG	Magnesium	TEMP	Temperature
NA	Sodium	TH	Total Hardness
NO_3	Nitrate	SAT	Per Cent Saturation
SIO_2	Silica	pH	Measure of acidity or alkalinity of water

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO_3	HCO_3	SO_4	CL	NO_3	F	B	SIO_2	MILLIGRAMS PER LITER TDS SUM	TH NCH
			BO 0730.50				DELTA-MENDOTA CANAL AT SAN LUIS													
10/09/68	5050				8.3	730	33	19	79	3.9	0.0	153	54	107	3.5		0.2		395	161
1045	5050						1.65	1.57	3.44	0.10		2.51	1.12	3.02	0.06					36
11/06/68	5050				7.7	434	14	15	42	2.4	0.0	100	28	60	3.3		0.2		232	98
1125	5050						0.70	1.26	1.83	0.07		1.64	0.58	1.69	0.05					16
12/11/68	5050				8.1	742	35	19	81	3.8	0.0	137	71	110	7.2		0.4		411	164
	5050						1.75	1.53	3.52	0.10		2.24	1.48	3.10	0.12					52
02/05/69	5050				7.6	284	16	7.3	29	2.8	0.0	61	31	34	3.5		0.3		170	70
0910	5050						0.80	0.60	1.26	0.07		1.00	0.64	0.96	0.06					20
03/05/69	5050				7.8	318	18	9.0	30	2.3	0.0	71	36	35	5.2		0.2		207	82
0930	5050						0.90	0.74	1.30	0.05		1.16	0.75	0.99	0.08					24
04/09/69	5050				7.6	236	13	5.7	22	1.3	0.0	56	23	26	1.7		0.1		150	56
	5050						0.65	0.47	0.96	0.03		0.92	0.48	0.73	0.03					10
05/07/69	5050				9.3	206	13	6.4	20	0.8	12	28	25	23	0.0		0.1		122	59
	5050						0.65	0.53	0.87	0.02	0.40	0.46	0.52	0.65	0.00					18
06/04/69	5050				8.0	143	8.7	3.3	14	1.3	0.0	31	12	17	1.5		0.0		99	35
	5050						0.43	0.27	0.01	0.03		0.51	0.25	0.48	0.02					10
07/02/69	5050				7.7	244	13	6.9	23	1.0	0.0	43	27	36	2.4		0.2		164	61
0940	5050						0.65	0.57	1.00	0.02		0.70	0.56	1.02	0.04					26
08/06/69	5050				7.5	755	40	21	82	3.3	0.0	145	79	111	5.7		0.4		430	185
	5050						2.00	1.72	3.57	0.08		2.38	1.64	3.13	0.09					66
09/10/69	5050				7.7	696	35	18	80	3.5	0.0	126	76	108	5.5		0.5		396	161
0930	5050						1.75	1.47	3.48	0.09		2.06	1.58	3.05	0.09					58
			BO 0770.00				DELTA-MENDOTA CANAL NEAR MENDOTA													
10/09/68	5050				8.2	384	18	12	35	2.3	0.0	106	27	42	2.5		0.1		218	95
1310	5050						0.90	1.00	1.52	0.06		1.74	0.56	1.18	0.04					8
11/06/68	5050				7.8	493	21	14	49	2.5	0.0	106	50	58	7.0		0.2		279	110
1355	5050						1.05	1.15	2.13	0.07		1.74	1.04	1.64	0.11					23
12/11/68	5050				8.2	925	40	24	114	5.3	0.0	152	121	133	8.4		0.6		524	199
	5050						2.00	1.98	4.96	0.14		2.49	2.52	3.75	0.14					74
02/05/69	5050				8.1	895	41	23	99	4.9	0.0	148	120	124	6.8		0.6		513	195
0715	5050						2.04	1.86	4.31	0.12		2.42	2.50	3.50	0.11					74
03/05/69	5050				8.2	1200	54	31	144	4.2	0.0	142	260	140	6.1		1.0		762	262
0725	5050						2.69	2.54	6.26	0.09		2.33	5.41	3.95	0.10					146
04/09/69	5050				7.6	101	8.3	3.0	7.2	1.5	0.0	46	7.6	2.6	0.9		0.0		88	33
	5050						0.41	0.25	0.31	0.04		0.75	0.16	0.07	0.01					0
05/07/69	5050				7.7	60	6.7	1.8	3.8	0.6	0.0	29	7.6	1.6	0.1		0.0		44	24
	5050						0.33	0.15	0.16	0.02		0.48	0.16	0.04	0.00					0
06/04/69	5050				7.8	56	5.3	1.4	3.1	1.5	0.0	24	0.3	1.5	0.2		0.0		55	19
	5050						0.26	0.12	0.13	0.03		0.39	0.01	0.04	0.00					0
07/02/69	5050				7.0	33	3.6	0.7	1.6	0.6	0.0	16	3.3	1.7	0.4		0.0		33	12
0730	5050						0.18	0.06	0.07	0.02		0.26	0.07	0.05	0.01					0
08/06/69	5050				7.8	587	30	16	63	3.1	0.0	117	61	81	4.3		0.3		331	140
	5050						1.50	1.30	2.74	0.08		1.92	1.27	2.28	0.07					44
09/08/69	5050		7.8	82 F	7.5	540			54		0.0	113		71			0.2			128
1240	5050				7.5	550			2.35			1.85		2.00						35
09/10/69	5050				7.5	412	22	11	44	2.1	0.0	94	39	61	3.5		0.2		238	100
0730	5050						1.10	0.90	1.91	0.05		1.54	0.81	1.44	0.06					23
			B6 7150.00				FRESNO RIVER NEAR DAULTON													
05/06/69	5050		10.0	65 F	7.3	98	9.5	2.3	7.5	1.3	0	48	1.8	4.1	0.0		1.2		90	33
1155	5050				7.3		0.47	0.19	0.33	0.03	0.00	0.79	0.04	0.12	0.00					0
09/16/69	5050		9.5	69 F	7.6	157	12	1.7	15	1.8	0	57	1.8	20	0.1		0.0		102	37
0930	5050				7.4	130	0.60	0.14	0.65	0.05	0.00	0.93	0.04	0.56	0.00					0
			B6 4200.00				CHOWCHILLA RIVER NEAR RAYMOND													
05/06/69	5050	571.02	9.9	70 F	7.7	130	12	2.9	11	1.7	0	65	2.0	6.3	0.0		1.3		104	42
1230	5050				7.3		0.60	0.24	0.48	0.04	0.00	1.06	0.04	0.18	0.00					0
09/16/69	5050	567.87	9.7	72 F	7.8	372	30	6.6	33	2.7	0	116	1.0	62	0.0		0.0		207	102
1015	5050				7.8	320	1.50	0.54	1.44	0.07	0.00	1.90	0.02	1.75	0.00					7

TABLE D-2 (continued

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLE	G.H.	O SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
							SAN JOAQUIN AT SAN LUIS RANCH													
10/02/68	5950		7.3	67 F	7.5	1170	48	24	142	6.1	0.0	184	114	193	3.7	--	0.4	--	624	229
0840	5950		80	19 C	7.3	1200	2.40	2.14	6.18	.16		3.02	2.37	5.44	.06				623	78
							22	20	57	1		28	22	50	1					
05/07/69	5950	5.23	7.5	57 F	7.4	985	63	19	130	5.9	0.0	115	191	140	5.2	--	1.0	--	634	235
0835	5950		82	14 C	7.2		3.14	1.56	5.22	.15		1.89	3.97	3.95	.08				601	141
							31	15	52	1		19	40	40	1					
09/16/69	5950	4.37	8.2	73 F	7.2	1100	54	23	140	5.0	0.0	186	150	165	6.8	--	0.7	--	676	231
1250	5950		96	23 C	7.3	850	2.69	1.89	6.09	.13		3.05	3.12	4.65	.11				636	79
							25	18	56	1		28	29	43	1					
							STANISLAUS RIVER AT KOETITZ RANCH													
10/02/68	5950				--	--	--	--	--	--	--	--	--	--	8.4	--	--	--	--	--
0845	5950														.14					
10/03/68	5950	39.21	7.6	69 F	7.8	235	18	8.5	15	3.3	0.0	103	12	7.6	7.4	--	0.0	--	132	80
0845	5950		85	21 C	7.3		.90	.70	.65	.08		1.69	.25	.21	.12				122	0
							39	30	28	3		74	11	9	5					
05/08/69	5950	37.39	11.8	60 F	8.3	57	3.9	2.1	2.6	1.2	0.0	30	0.0	1.2	0.3	--	0.1	--	48	23
0900	5950		109	16 C	7.2		.29	.17	.11	.03		.49		.03					28	0
							48	28	18	5		94		6						
09/17/69	5950	34.58	9.3	73 F	7.4	179	15	6.4	10	2.1	0.0	79	9.7	6.0	7.0	--	0.0	--	118	64
1250	5950		105	23 C	7.6	160	.75	.53	.44	.05		1.30	.20	.17	.11				95	0
							42	30	25	3		73	11	10	6					
							TUOLUMNE RIVER AT TUOLUMNE CITY													
10/02/68	5950				--	--	--	--	--	--	--	--	--	--	5.9	--	--	--	--	--
0820	5950														.09					
10/02/68	5950		4.1	72 F	7.9	924	48	15	105	10	0.0	178	13	176	14	--	0.2	--	496	181
1440	5950	285	46	22 C	7.1		2.40	1.23	4.57	.26		2.92	.27	4.96	.23				468	35
							28	15	54	3		35	3	59	3					
05/08/69	5950	34.35	5.3	62 F	7.3	148	10	3.6	12	1.5	0.0	41	0.8	20	2.1	--	0.1	--	100	40
1010	5950		92	17 C	7.0		.50	.30	.52	.04		.67	.02	.56	.03				70	7
							37	22	38	3		52	2	44	2					
09/17/69	5950		7.0	72 F	7.2	509	31	11	54	4.4	0.0	109	8.4	104	8.3	--	0.0	--	316	124
1215	5950		81	22 C	7.3	420	1.55	.90	2.35	.11		1.79	.17	2.93	.13				275	35
							32	18	48	2		36	3	58	3					
							TUOLUMNE RIVER AT HICKMAN BRIDGE													
10/03/68	5950		4.8	73 F	7.4	540	26	9.7	56	5.4	0.0	109	3.8	98	1.4	--	0.1	--	297	105
1400	5950		111	21 C	7.3		1.30	.80	2.44	.14		1.77	.08	2.76	.02				253	17
							28	17	52	3		38	2	60						
05/09/69	5950	33.39	11.4	57 F	7.1	70	8.2	1.3	4.5	0.7	0.0	23	1.0	8.9	0.1	--	0.0	--	31	21
1000	5950		111	14 C	5.2		.31	.11	.20	.02		.38	.02	.25					34	2
							48	17	31	3		58	3	38						
09/17/69	5950		6.5	69 F	7.5	472	27	11	48	4.4	0.0	100	2.3	93	2.8	--	0.0	--	328	114
0800	5950		95	21 C	7.6	380	1.35	.93	2.09	.11		1.64	.05	2.62	.05				238	32
							30	20	47	2		38	1	60	1					
							MERCED RIVER NEAR STEVINSON													
10/02/68	5950				--	--	--	--	--	--	--	--	--	--	6.1	--	--	--	--	--
0625	5950														.10					
10/03/68	5950		5.5	63 F	7.7	166	12	4.1	14	2.5	0.0	72	5.3	6.5	5.2	--	0.0	--	83	47
0930	5950		90	17 C	7.4	150	.60	.34	.61	.06		1.18	.12	.18	.08				85	0
							37	21	38	4		76	8	12	5					
10/03/68	5950			63 F	8.1	293	--	--	30	--	0.0	113	--	22	5.2	--	0.0	--	--	79
1000	5950			17 C		300			1.31			1.85		.62	.08					0
									44			63		21	2					
05/07/69	5950		10.5	59 F	8.0	66	7.3	2.2	3.1	0.6	0.0	30	3.4	1.5	0.7	--	0.6	--	58	27
0935	5950		104	15 C	7.1	72	.36	.18	.13	.02		.49	.07	.04	.01				34	3
							52	26	19	3		80	11	7	2					
09/16/69	5950		4.9	7 F	7.2	54	4.9	2.0	2.4	1.1	0.0	28	1.5	1.0	0.4	--	0.0	--	31	24
1430	5950		101	21 C	7.2	50	.24	.24	.10	.03		.46	.03	.03	.01				28	1
							39	30	16	5		87	6	6	2					

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLE-NO.	SPEC. COND.	PH LAB	PH FLD	TEMP LAB	TEMP FLD	FC LAB	FC FLD	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCM
									MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE													
									SAN JOAQUIN RIVER NEAR FRESNO													
10/02/68 0930	5950 5950				--		--	--	--	--	--	--	--	--	--	--	8.4 .14	--	--	--	--	--
10/03/68 1230	5950 5950	1080	7.62	64 21	F C	8.1	933	--	--	108 4.70 50	--	0.0	178 2.92 31	--	150 4.23 45	8.2 .13 1	--	0.2	--	--	215	69
10/09/68 0845	5950 5950		7.1 83	61 16	F C	7.9 7.5	946 1020	48 2.40 25	23 1.89 20	115 5.00 53	5.0 .13 1	0.0	190 3.12 34	72 1.44 18	150 4.23 46	8.6 .14 2	0.2	0.3	26	--	214 548	54
11/06/68 1000	5950 5950	12.20	7.9 74	58 14	F C	7.6 7.3	574 560	28 1.40 47	14 1.15 39	5.7 .29 10	4.4 .11 4	0.0	133 2.18 38	53 1.10 19	84 2.37 42	3.9 .06 1	0.1	0.1	13	--	128 272	19
12/11/68 1015	5950 5950		7.5 73	52 11	F C	7.7 7.4	590 640	23 1.15 21	16 1.15 21	73 3.18 57	2.8 .07 1	6.0 .20 4	75 1.23 23	45 1.35 25	94 2.65 49	0.6 .01	0.3	.29	2.9	-- 319	115 44	
01/17/69 1100	5950 5950	14.00		65 9	F C	6.9	218	12 .60 29	5.7 .47 22	22 .96 46	2.5 .06 3	0.0	58 .95 47	20 .42 21	27 .62 30	3.4 .05 2	0.2	0.1	12	-- 128	54 7	
02/13/69 1100	5950 5950		9.5		--	7.6 7.2	248 225	15 .75 32	6.6 .53 22	24 1.04 44	2.0 .05 2	0.0	62 1.02 43	28 .58 25	25 .71 30	2.9 .04 2	0.1	0.0	14	154 147	64 13	
03/19/69 1045	5950 5950	28.80		55 13	F C	7.5 7.8	307	18 .90 30	7.9 .65 22	32 1.39 46	1.8 .05 2	0.0	72 1.18 41	34 .79 28	31 .87 30	2.1 .03 1	0.2	0.2	14	-- 180	76 19	
04/02/69 1135	5950 5950	28.32	7.6		--	7.3 7.5	290 300	17 .85 31	6.9 .57 21	29 1.26 46	1.5 .04 1	0.0	64 1.05 40	39 .81 31	27 .76 29	1.6 .03 1	0.2	0.2	11	-- 165	71 19	
05/07/69 1230	5950 5950	24.72	8.7 265	67 19	F C	7.1 7.1	163 160	11 .55 36	4.0 .33 22	14 .61 40	1.3 .03 2	0.0	48 .79 50	13 .27 17	17 .48 31	1.9 .03 2	0.1	.01	14	-- 100	44 5	
06/04/69 0950	5950 5950	29.93	8.6 94	69 21	F C	6.9 7.2	92 68	6.5 .32 37	2.3 .19 22	7.5 .33 38	0.9 .02 2	0.0	24 .43 51	8.0 .17 20	9.6 .24 29	0.1	0.0	.12	11	-- 58	26 5	
07/09/69 0720	5950 5950	19.30	7.9 90	71 22	F C	7.7 7.2	255 210	18 .90 36	6.1 .50 20	24 1.04 42	1.7 .04 2	0.0	52 1.02 41	23 .48 19	34 .94 38	3.1 .05 2	0.3	.05	12	-- 153	70 19	
08/07/69 0730	5950 5950	14.31	5.8 69	74 23	F C	7.4 7.3	673 580	35 1.75 28	14 1.39 21	73 3.18 50	3.6 .09 1	0.0	140 2.30 38	43 .90 15	98 2.74 45	2.5 .04 1	0.2	.20	17	-- 362	154 39	
09/17/69 1430	5950 5950	14.50	8.2 95	72 22	F C	7.5 7.5	544 450	30 1.20 29	13 1.07 21	57 2.48 48	2.9 .07 1	0.0	121 1.98 40	45 .94 19	71 2.00 40	4.8 .08 2	0.1	.15	18	-- 301	128 29	
									SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE													
10/02/68 0915	5950 5950				--		--	--	--	--	--	--	--	--	--	--	7.3 .12	--	--	--	--	--
10/03/68 1310	5950 5950	14.40 816	10.8 124	71 22	F C	7.7 7.5	1100	47 2.35 23	25 2.06 20	133 5.79 56	7.1 .18 2	0.0	176 3.21 32	85 1.77 17	177 4.99 49	9.3 .15 1	--	0.3	--	577 580	220 60	
05/06/69 0820	5950 5950	29.31	8.9 94	64 18	F C	7.0 7.2	173	12 .60 37	3.9 .32 20	15 .65 40	1.5 .04 2	0.0	44 .75 47	13 .27 17	19 .54 34	1.7 .03 2	--	0.1	--	49 89	46 9	
09/17/69 1345	5950 5950		7.7 90	73 23	F C	7.9 7.3	457 400	26 1.30 28	12 .99 21	53 2.31 49	3.0 .05 2	0.0	127 2.08 45	34 .71 15	52 1.76 38	5.8 .09 2	--	0.1	--	271 258	113 9	
									SAN JOAQUIN RIVER NEAR GRATSON													
10/02/68 0800	5950 5950	592	7.7 93	65 18	F C	8.1 7.3	1120 1120	45 2.25 21	27 2.22 21	141 6.13 57	5.0 .14 1	0.0	196 3.21 30	119 2.48 23	170 4.79 46	9.1 .15 1	--	0.4	--	608 613	224 64	
10/02/68 0801	5950 5950				--		--	--	--	--	--	--	--	--	--	--	11 .18	--	--	--	--	--
01/17/69 1000	5950 5950		9.5 82	45 9	F C	7.6	498	--	--	51 2.55 53	--	0.0	93 1.53 30	--	57 1.61 32	--	--	0.4	--	--	101 25	
05/05/69 1105	5950 5950		7.9 95	65 18	F C	7.3 7.4	161	11 .55 35	4.0 .33 21	15 .65 41	1.6 .04 3	0.0	44 .72 47	17 .35 23	15 .42 27	2.4 .04 3	--	0.1	--	91 86	44 8	
07/08/69 1250	5950 5950		7.2 87	74 24	F C	7.5 7.3	223 205	--	--	22 .96 43	--	0.0	54 .89 39	--	23 .65 29	--	--	0.1	--	--	57 13	

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLE	PH	O SAT	TEMP		PH LAB FIELD	EC LAB FIELD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
								SAN JOAQUIN RIVER NEAR GRAYSON								CONTINUED					
08/17/69	5 50		7.6	72	F	7.3	400	--	--	45	--	0.0	108	--	45	--	--	0.1	--	--	95
1140	5 50		88	22	C	7.5	280			1.96			1.77		1.27						7
										49			44		31						
								SAN JOAQUIN RIVER AT PATTERSON BRIDGE													
10/02/68	5 50					--	--	--	--	--	--	--	--	--	--	7.6	--	--	--	--	--
0730	5 50															.12					
10/02/68	5 50		10.5	7	F	7.9	988	42	21	126	5.2	0.0	178	99	149	7.2	--	0.3	--	548	193
0900	5 50	488	120	21	C	8.2	990	2.10	1.73	5.48	.13		2.92	2.06	4.20	.12				537	47
								22	18	58	1		31	22	45	1					
05/09/69	5 50		9.3	59	F	7.1	170	11	4.5	14	1.6	0.0	44	17	17	1.5	--	0.1	--	99	46
1220	5 50		104	21	C	7.3		.55	.37	.61	.04		.72	.35	.48	.02				88	10
								35	24	39	3		46	22	31	1					
09/17/69	5 50		9.4	73	F	7.5	319	18	8.0	36	2.3	0.0	99	27	34	2.8	--	0.1	--	187	78
1040	5 50		110	23	C	7.8	270	.90	.66	1.57	.06		1.62	.55	.96	.05				177	0
								28	21	49	2		51	18	30	2					
								SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE													
10/02/68	5 50					--	--	--	--	--	--	--	--	--	--	6.5	--	--	--	--	--
0700	5 50															.10					
10/03/68	5 50		9.5	7	F	7.9	1020	42	24	134	5.2	0.0	183	103	149	7.1	--	0.3	--	545	205
0855	5 50	415	107	21	C	8.2	1030	2.10	1.97	5.39	.13		3.00	2.14	4.20	.11				544	55
								22	21	56	1		32	23	44	1					
01/17/69	5 50	45.55	9.0	47	F	7.7	495	--	--	60	--	0.0	87	--	60	--	--	0.4	--	--	101
0920	5 50		77	8	C					2.61			1.43		1.69						30
										52			28		34						
05/09/69	5 50		9.1	69	F	7.0	182	12	4.1	15	1.7	0.0	45	18	19	1.3	--	0.2	--	102	47
1300	5 50		102	21	C	7.3		.60	.34	.65	.04		.74	.37	.54	.02				93	10
								37	21	40	2		46	22	32	1					
07/08/69	5 50	48.18	7.1	75	F	7.3	229	--	--	24	--	0.0	52	--	26	--	--	0.1	--	--	55
1005	5 50		85	24	C	7.2	190			1.04			.85		.73						13
										45			37		31						
09/17/69	5 50		8.2	69	F	7.5	295	--	--	32	--	0.0	80	--	34	--	--	0.0	--	--	74
1015	5 50		92	21	C	7.4	260			1.39			1.31		.96						9
										47			44		32						
								SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE													
10/02/68	5 50					--	--	--	--	--	--	--	--	--	--	2.6	--	--	--	--	--
0685	5 50															.04					
10/02/68	5 50	55.22		7	F	8.6	1450	56	33	182	7.4	0.0	216	137	263	3.9	--	0.4	--	819	276
1100	5 50	123		21	C	7.9	1450	2.79	2.71	7.92	.19		3.54	2.85	7.42	.06				789	99
								20	20	58	1		26	21	53						
05/07/69	5 50	55.53	9.4	66	F	7.4	74	7.4	1.8	5.1	0.9	0.0	34	1.6	3.3	0.1	--	0.0	--	72	26
1045	5 50		102	19	C	7.3		.37	.15	.22	.02		.56	.03	.09					37	0
								49	20	29	3		82	4	13						
09/16/69	5 50	57.42	8.2	73	F	7.3	444	24	11	51	3.0	0.0	126	40	53	2.6	--	0.1	--	259	104
1450	5 50		96	23	C	7.8	360	1.20	.90	2.22	.06		2.07	.83	1.49	.04				246	1
								27	20	50	2		47	19	34	1					
								SAN JOAQUIN RIVER NEAR MENDOTA													
05/07/69	5 50	12.53	11.1	63	F	7.3	53	5.1	1.3	3.1	1.0	0.0	27	1.0	1.4	0.1	--	0.0	--	50	18
0655	5 50		106	17	C	7.0		.25	.11	.13	.03		.44	.02	.04					26	0
								48	21	25	6		88	4	8						
09/08/69	5 50	4.79	8.8	85	F	7.5	356	20	10	36	2.3	0.0	99	31	43	3.2	--	0.1	--	208	91
1315	5 50		117	29	C	7.8	360	1.00	.82	1.57	.06		1.62	.64	1.21	.05				194	10
								29	24	46	2		46	19	34	1					
								SAN JOAQUIN RIVER BELOW FRIANT DAM													
10/04/68	5 50	2.23	13.1	57	F	7.2	46	4.0	0.9	3.1	0.7	0.0	16	0.5	0.0	1.7	--	0.1	--	26	11
1250	5 50		127	14	C	7.3		.20	.12	.13	.02		.26	.01		.03				18	0
								54	6	35	5		87	3		10					
05/08/69	5 50	5.32	12.7	54	F	7.9	44	3.9	0.8	4.7	0.9	0.0	20	0.5	1.8	0.5	--	0.1	--	29	12
1030	5 50		114	12	C	8.4		.19	.05	.16	.02		.33	.01	.05	.01				22	0
								45	12	38	5		83	3	13	3					
09/15/69	5 50	1.96	11.7	54	F	7.4	27	--	--	1.6	--	0.0	12	--	0.8	--	--	0.0	--	--	10
0805	5 50		105	14	C	8.5				.07			.20		.02						0
										25			74		7						

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO_3	HCO_3	SO_4	CL	NO_3	MILLIGRAMS PER LITER: F	B	SIO_2	TDS SUM	TH NCH
			B5 1375.50				NEAR CREEK AT OAK ROAD													
09/22/69	5 00			--	--	230	--	--	--	--	--	--	--	2.9	1.4	--	--	--	--	--
	5055													.08	.02					
														3						
			B5 1380.50				NEAR CREEK NEAR BEAR CREEK SCHOOL													
07/25/69	5000			--	--	--	27	12	--	--	--	--	--	7.2	--	--	--	--	--	108
0900	5055						1.35	.82						.20						108
			B9 5925.00				DELTA MENDOTA CANAL NEAR TRACY													
10/09/68	5050				8.1	361	17	12	32	2.2	0	105	23	37	2.8		0.1		196	92
0855	5050						0.85	0.99	1.39	0.06	0.00	1.72	0.48	1.04	0.04					6
11/06/68	5050				7.8	458	19	13	42	2.9	0	100	27	57	6.1		0.2		226	100
0935	5050						0.95	1.05	1.83	0.07	0.00	1.64	0.56	1.61	0.10					18
12/11/68	5050				8.1	952	41	23	114	5.1	0	153	102	150	9.0		0.6		530	196
	5050						2.04	1.88	4.96	0.13	0.00	2.51	2.12	4.23	0.14					71
02/05/69	5050				7.5	254	8.5	11	25	2.6	0	61	26	28	3.2		0.2		161	66
1045	5050						0.42	0.90	1.09	0.07	0.00	1.00	0.54	0.79	0.05					16
03/05/69	5050				7.7	295	17	8.4	27	2.1	0	71	33	30	5.3		0.2		184	77
1105	5050						0.85	0.69	1.17	0.05	0.00	1.16	0.69	0.85	0.08					19
04/09/69	5050				7.9	266	16	5.8	25	1.6	0	58	27	31	2.6		0.2		172	64
	5050						0.80	0.48	1.09	0.04	0.00	0.95	0.56	0.87	0.04					16
05/07/69	5050				8.8	236	14	4.9	22	1.0	5	44	24	26	0.0		0.2		123	55
	5050						0.70	0.40	0.96	0.02	0.17	0.72	0.50	0.73	0.00					13
06/04/69	5050				7.6	206	12	5.4	21	1.2	0	35	33	22	2.1		0.1		130	52
	5050						0.60	0.44	0.91	0.03	0.00	0.57	0.69	0.62	0.03					23
07/02/69	5050				7.7	246	6.2	12	23	1.3	0	57	23	33	32		0.2		163	64
1230	5050						0.31	0.97	1.00	0.03	0.00	0.93	0.48	0.93	0.05					17
08/06/69	5050				7.5	255	15	7.4	23	2.3	0	68	24	28	1.9		0.2		113	68
	5050						0.75	0.61	1.00	0.06	0.00	1.11	0.50	0.79	0.03					12
09/10/69	5050				7.4	440	24	11	48	2.6	0	101	34	60	4.9		0.2		241	105
1230	5050						1.20	0.90	2.09	0.07	0.00	1.66	0.71	1.69	0.08					22
09/17/69	5050				7.6	448			48		0	112		58			0.1			108
1530	5050								2.09		0.00	1.84		1.64						16

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
				CO 1140.00				KINGS RIVER BELOW PEOPLES WEIR													
7/06/69	5050	6.95	10.7	48	F	7.8	114	--	--	6.7	--	0.0	54	--	3.7	--	--	0.0	--	--	41
1330	5050		92	9	C	7.4				.29			.89		.10						0
										25			78		8						
7/06/69	5050	14.72	13.5	56	F	8.1	51	2.6	1.4	2.7	0.9	0.0	24	2.0	1.1	0.2	--	0.9	--	55	20
0850	5050		129	13	C	7.1		.28	.12	.12	.02		.39	.04	.03					27	1
								52	23	22	4		85	9	7						
7/07/69	5050		10.0	64	F	7.0	28	--	--	1.3	--	0.0	13	--	0.7	--	--	0.0	--	--	12
0940	5050		106	18	C	6.8	30			.06			.21		.02						2
										21			75		7						
7/08/69	5050		9.7	66	F	7.4	47	--	--	2.4	--	0.0	23	--	1.2	--	--	0.0	--	--	17
1005	5050		105	19	C	7.1	38			.10			.38		.03						0
										21			80		5						
				CO 2185.00				KAWEAH RIVER BELOW TERMINUS DAM													
7/04/69	5050	4.12	7.3	70	F	7.5	82	11	1.6	2.6	1.3	0.0	35	6.4	1.8	0.2	--	0.0	--	46	34
0845	5002		83	21	C			.55	.13	.11	.03		.57	.13	.05					42	6
								57	16	13	4		76	17	7						
				CO 3196.00				TULE RIVER BELOW SUCCESS DAM													
7/08/68	5050	2.38	8.5	65	F	8.1	310	--	--	17	--	0.0	184	--	7.4	--	--	0.0	--	--	137
0910	5002		91	18	C					.74			3.02		.21						0
										23			97		6						
7/04/68	5050	2.35	9.8	64	F	8.4	352	--	--	18	--	5.0	188	--	8.7	--	--	0.2	--	--	142
1325	5002		104	18	C					.78		.17	3.08		.25						0
										22		4	87		7						
7/17/68	5050	3.49	11.1	50	F	8.3	364	--	--	19	--	0.0	199	--	9.5	--	--	0.1	--	--	141
1405	5002		98	10	C					.83			3.26		.27						0
										22			89		7						
7/06/69	5050	2.68	12.5	48	F	8.3	325	--	--	18	--	0.0	185	--	9.7	--	--	0.0	--	--	137
1050	5002		108	9	C					.78			3.03		.27						0
										24			93		8						
8/10/69	5050	6.70	12.7	48	F	7.5	131	--	--	7.0	--	0.0	66	--	3.8	--	--	0.0	--	--	52
1445	5002		109	9	C					.30			1.08		.11						0
										22			82		8						
8/04/69	5050	9.42	12.7	48	F	8.1	139	--	--	7.3	--	0.0	70	--	3.6	--	--	0.0	--	--	63
1000	5002		109	9	C					.32			1.15		.10						6
										23			82		7						
6/07/69	5050	7.82	11.9	54	F	7.5	137	--	--	6.4	--	0.0	67	--	3.6	--	--	0.0	--	--	55
1000	5002		111	12	C					.28			1.10		.10						0
										20			80		7						
5/05/69	5050	6.15	11.3	58	F	8.0	115	13	2.8	6.7	1.6	0.0	59	3.0	2.8	0.3	--	1.3	--	93	44
1120	5002	562	111	14	C			.65	.23	.29	.04		.97	.06	.08					60	0
								54	19	24	3		87	5	7						
6/03/69	5050	7.12	10.6	62	F	7.4	100	--	--	5.2	--	0.0	53	--	3.4	--	--	0.0	--	--	38
0945	5002	1052	109	17	C					.23			.87		.10						0
										23			87		10						
7/07/69	5050	4.25	9.7	66	F	7.5	102	--	--	5.1	--	0.0	55	--	2.0	--	--	0.0	--	--	40
1115	5002	611	105	19	C					.22			.90		.06						0
										21			88		5						
8/04/69	5050	6.33	8.4	70	F	7.5	107	--	--	5.1	--	0.0	57	--	2.8	--	--	0.0	--	--	44
1000	5002	642	95	21	C					.22			.93		.07						0
										20			86		6						
9/08/69	5050	4.46	8.8	78	F	7.2	148	19	4.0	6.3	1.7	0.0	83	1.6	3.0	0.2	--	0.0	--	64	64
1040	5002	191	104	26	C			.95	.33	.27	.04		1.36	.03	.08					76	0
								80	21	17	3		93	2	5						

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	CA	MG	NA	K	CO_3	HCO_3	SO_4	CL	NO_3	F	B	SIO_2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
				C1 1320.00			BIG CREEK ABOVE PINE FLAT DAM													
10/14/68	5050	1.43	10.0	64 F	7.0	185			15		0.0	57		20			0.1			55
1100	5002	10							0.65			0.93		0.56						8
11/12/68	5050	1.35	1.1	56 F	7.6	136			11		0.0	46		13			0.0			38
1030	5002	52							0.48			0.75		0.04						0
12/09/68	5050				7.8	125			1.1		0.0	45		11			0.0			38
	5002								0.48			0.94		0.31						0
01/13/69	5050	1.71	11.0	46 F	7.6	90			7.2		0.0	40		5.0			0.0			27
1000	5002	35							0.31			0.66		0.14						0
02/10/69	5050	3.20	12.0	43 F	7.6	83			5.3		0.0	39		2.0			0.0			30
1030	5002	300							0.23			0.64		0.06						5
03/10/69	5050	3.30	12.2	44 F	7.7	88			5.4		0.0	44		1.9			0.0			29
1045	5002	284							0.23			0.72		0.05						0
04/14/69	5050	3.52	11.5	50 F	7.2	62			4.2		0.0	33		1.2			0.0			22
1100	5002	375							0.18			0.54		0.03						0
05/12/69	5050	3.22	11.0	56 F	7.5	48	4.1	1.4	3.1	1.2	0.0	26	0.6	1.2	0.0		0.1		54	16
1100	5002	148					0.20	0.12	0.13	0.03		0.43	0.01	0.03	0.00					0
06/10/69	5050	2.65	9.5	68 F	7.2	69			4.7		0.0	36		3.5			0.0			23
1000	5002	109							0.20			0.59		0.10						0
07/14/69	5050	1.04	10.0	72 F	7.0	81			6.2		0.0	43		2.6			0.0			27
1200	5002	35							0.27			0.70		0.07						0
08/04/69	5050				7.7	90			7.2		0.0	45		4.0			0.2			26
	5002								0.31			0.74		0.11						0
09/08/69	5050	1.33	9.7	75 F	7.8	106			8.6		0.0	51		5.4			0.0			34
1125	5002	50							0.37			0.84		0.15						0
				C2 1250.00			KAWEAH RIVER NEAR THREE RIVERS													
10/07/68	5050	1.87	9.4	66 F	7.8	160			9.9		0	73		9.0			0.0			59
1025	5002								0.43		0.00	1.20		0.25						0
11/04/68	5050	3.15	10.9	55 F	7.6	111			6.3		0	52		4.2			0.1			42
0905	5002								0.27		0.00	0.85		0.12						0
12/09/68	5050	2.46	12.4	46 F	8.0	130			6.4		0	59		4.9			0.0			48
1050	5002								0.28		0.00	0.97		0.14						0
01/06/69	5050	3.49	12.5	44 F	7.6	98			5.0		0	49		3.2			0.0			40
1015	5002								0.22		0.00	0.80		0.09						0
02/06/69	5050	6.12	12.5	43 F	7.5	94			4.6		0	45		2.7			0.0			38
1440	5002								0.20		0.00	0.74		0.08						1
03/05/69	5050	5.93	12.8	45 F	8.0	130			5.5		0	64		2.4			0.0			56
0905	5002								0.24		0.00	1.05		0.07						4
04/07/69	5050	6.44	12.3	46 F	7.8	84			4.2		0.0	42		1.5			0.0			30
1055	5002								0.18			0.69		0.04						0
05/05/69	5050	6.56	12.9	52 F	7.6	52	6.4	1.2	2.4	0.9	0.0	27	1.5	1.0	0.0		0.5		51	21
1320	5002						0.32	0.10	0.10	0.02		0.44	0.03	0.03	0.00					0
06/03/69	5050	8.16	11.8	52 F	6.8	28			1.2		0.0	13		0.7			0.0			10
0950	5002								0.05			0.21		0.02						0
07/07/69	5050	6.60	10.0	56 F	7.0	32			1.3		0.0	17		0.7			0.0			12
0900	5002								0.06			0.28		0.02						0
08/04/69	5050	5.47	9.2	63 F	7.3	39			1.7		0.0	19		1.2			0.0			15
0945	5002								0.07			0.31		0.03						0
09/08/69	5050	3.22	9.0	69 F	8.2	79			3.8		0.0	41		2.3			0.0			30
	5002								0.16			0.67		0.06						0

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLE	G.H. D	DO SAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
					C6 5150.00 KERN RIVER NEAR BAKERSFIELD																
9/02/69	5050			70	F	8.2	71	7.3	1.6	4.7	1.3	0.0	35	2.5	1.9	0.2	--	0.0	--	46	24
1100	5033			21	C			.36	.12	.20	.03		.57	.05	.05					36	0
								51	17	28	4		85	7	7						
					C1 1140.00 KINGS RIVER BELOW PINE FLAT																
0/14/68	5050	.72	9.1	62	F	6.9	33	--	--	1.8	--	0.0	14	--	0.7	--	--	0.0	--	--	12
0920	5002	52	94	17	C					.18			.23		.02						1
										24			69		6						
1/12/68	5050	.72	10.9	60	F	7.0	33	--	--	1.7	--	0.0	15	--	0.7	--	--	0.0	--	--	12
0900	5002	52	110	16	C					.07			.25		.02						0
										21			75		6						
2/09/68	5050				--	7.3	32	--	--	1.7	--	0.0	16	--	0.7	--	--	0.0	--	--	13
	5002									.07			.26		.02						0
										21			81		6						
1/13/69	5050	2.11	12.0	53	F	6.9	36	--	--	1.8	--	0.0	16	--	0.9	--	--	0.0	--	--	18
1250	5002	286	111	12	C					.08			.26		.03						5
										22			72		8						
2/10/69	5050	4.00	12.5	48	F	7.3	44	--	--	2.0	--	0.0	20	--	1.4	--	--	0.0	--	--	19
0920	5002	3430	108	9	C					.09			.33		.04						3
										20			75		9						
3/10/69	5050	6.80	13.0	46	F	7.5	51	--	--	2.5	--	0.0	24	--	1.1	--	--	0.0	--	--	21
0900	5002	5220	109	8	C					.11			.39		.03						2
										21			76		5						
4/14/69	5050	7.66	12.0	51	F	7.3	59	--	--	2.9	--	0.0	27	--	1.2	--	--	0.3	--	--	22
0910	5002	7296	108	11	C					.13			.44		.03						0
										22			74		5						
5/12/69	5050	8.53	12.0	50	F	7.1	40	4.5	0.7	1.8	0.8	0.0	19	1.2	1.5	0.2	--	0.0	--	26	14
0940	5002	9948	106	10	C			.22	.06	.08	.02		.31	.02	.04					20	0
								58	16	21	5		84	5	11						
6/10/69	5050	10.67	11.5	56	F	6.7	24	--	--	1.3	--	0.0	12	--	0.9	--	--	0.0	--	--	8
1330	5002	16800	110	13	C					.06			.20		.03						0
										25			83		12						
7/14/69	5050	8.61	10.1	60	F	6.6	19	--	--	1.0	--	0.0	9.0	--	0.7	--	--	0.0	--	--	9
1310	5002	10000	102	16	C					.04			.15		.02						2
										21			78		10						
8/08/69	5050				--	6.4	29	--	--	0.6	--	1.0	6.0	--	0.5	--	--	0.0	--	--	7
	5002									.03		.03	.10		.01						1
										10		10	34		3						
9/08/69	5050	4.43	10.2	68	F	7.4	22	--	--	1.0	--	0.0	11	--	0.5	--	--	0.0	--	--	9
1200	5002	4340	113	20	C					.04			.18		.01						0
										18			81		4						
					C1 1460.00 KINGS RIVER BELOW NORTH FORK																
10/14/68	5050	3.33	10.1	60	F	7.3	62	--	--	4.0	--	0.0	27	--	2.1	--	--	0.0	--	--	22
1145	5002	[illegible]	102	16	C					.17			.44		.06						0
										27			70		9						
11/12/68	5050	2.98	11.5	54	F	7.3	47	--	--	3.1	--	0.0	20	--	1.8	--	--	0.0	--	--	15
1120	5002	[illegible]	104	12	C					.13			.33		.05						0
										27			70		10						
12/09/68	5050				--	7.5	52	--	--	3.4	--	0.0	23	--	2.0	--	--	0.0	--	--	19
	5002									.15			.38		.06						0
										28			73		11						
01/13/69	5050	3.23	12.0	46	F	7.5	43	--	--	3.0	--	0.0	21	--	1.8	--	--	0.0	--	--	19
1100	5002	489	101	8	C					.13			.34		.05						2
										30			79		11						
02/10/69	5050	4.62	12.0	44	F	7.2	67	--	--	3.5	--	0.0	31	--	1.4	--	--	0.0	--	--	27
1130	5002	1449	98	7	C					.15			.51		.04						2
										22			76		5						
03/10/69	5050	4.80	11.8	46	F	7.7	78	--	--	3.9	--	0.0	38	--	1.4	--	--	0.0	--	--	30
1200	5002	1541	96	7	C					.17			.62		.04						0
										21			79		5						
04/14/69	5050	7.18	12.0	48	F	7.0	44	--	--	2.7	--	0.0	21	--	0.8	--	--	0.1	--	--	16
1145	5002	4561	103	9	C					.12			.34		.02						0
										27			77		4						
05/12/69	5050	10.42	11.0	50	F	7.3	25	2.7	0.4	1.3	0.6	0.0	12	0.8	0.6	0.4	--	0.1	--	31	8
1210	5002	1444	97	10	C			.13	.03	.06	.02		.20	.02	.02	.01				13	0
								54	13	25	8		80	8	8	4					
06/10/69	5050	10.37	12.0	46	F	6.7	19	--	--	1.0	--	0.0	9.0	--	1.2	--	--	0.0	--	--	6
1100	5002	1261	101	8	C					.04			.15		.03						0
										21			78		15						
07/14/69	5050	9.69	11.2	56	F	6.4	15	--	--	0.8	--	0.0	8.0	--	0.5	--	--	0.0	--	--	7
1110	5002	9430	98	13	C					.03			.13		.01						1
										20			86		6						

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GAS. O	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	MILLIGRAMS PER LITER TDS SUM	TH NCH
				C1 1460.00			KINGS RIVER BELOW NORTH FORK								CONTINUED					
08/00/69	5050			--	7.6	18	--	--	0.8	--	0.0	9.0	--	0.5	--	--	0.0	--	--	6
	5002								.03			.15		.01						0
									16			83		5						
09/08/69	5050	6.28	12.0	54 F	7.2	33	--	--	1.7	--	0.0	16	--	0.8	--	--	0.0	--	--	12
1350	5002	425	112	12 C					.07			.26		.02						0
									21			79		6						
				C1 3354.30			RATTLESNAKE CREEK BELOW HURN (KINGS CANYON PARK)													
10/17/68	5050			--	7.0	22	--	--	1.4	--	0.0	9.0	--	1.4	--	--	--	--	--	7
	5005								.06			.15		.04						0
									27			68		18						
08/24/69	5050			--	6.9	17	--	--	1.3	--	0.0	10	--	1.0	--	--	--	--	--	6
	5005								.06			.16		.03						0
									35			94		17						
				C1 3356.30			RATTLESNAKE CREEK ABOVE HURN (KINGS CANYON PARK)													
10/17/68	5050			--	7.0	19	--	--	1.2	--	0.0	8.0	--	1.1	--	--	--	--	--	6
	5005								.05			.13		.03						0
									26			68		15						
08/24/69	5050			--	6.6	14	--	--	1.1	--	0.0	8.0	--	1.0	--	--	--	--	--	5
	5005								.05			.13		.03						0
									35			92		21						
				C3 1150.00			TULE RIVER NEAR SPRINGVILLE													
10/08/68	5050	3.38	10.0	58 F	8.3	436	--	--	30	--	0.0	246	--	16	--	--	0.1	--	--	170
0845	5002		98	14 C					1.31			4.03		.45						0
									30			92		10						
11/04/68	5050	3.38	9.4	57 F	8.5	409	--	--	25	--	9.0	215	--	14	--	--	0.3	--	--	168
1100	5002		91	14 C					1.09		.30	3.53		.39						0
									26		7	86		9						
12/17/68	5050	3.50	11.3	43 F	8.2	236	--	--	14	--	0.0	132	--	6.8	--	--	0.0	--	--	94
1310	5002		91	6 C					.61			2.16		.19						0
									25			91		8						
01/06/69	5050	3.89	11.9	44 F	8.3	258	--	--	14	--	0.0	145	--	7.2	--	--	0.0	--	--	108
1020	5002		97	7 C					.61			2.38		.20						0
									23			92		7						
02/10/69	5050	5.54	10.5	52 F	7.9	173	--	--	10	--	0.0	88	--	5.1	--	--	0.0	--	--	76
1425	5002		96	11 C					.44			1.44		.14						4
									35			83		8						
03/04/69	5050	5.49	11.9	44 F	8.1	144	--	--	8.0	--	0.0	72	--	3.8	--	--	0.0	--	--	58
0932	5002		97	7 C					.35			1.18		.11						0
									26			81		7						
04/07/69	5050	6.09	11.2	48 F	7.4	107	--	--	5.3	--	0.0	55	--	2.7	--	--	0.0	--	--	39
0945	5002		96	9 C					.23			.90		.08						0
									21			84		7						
05/05/69	5050	5.50	10.8	52 F	8.2	113	14	2.4	6.3	1.2	0.0	60	3.6	2.6	1.3	--	1.1	--	98	45
1050	5002	681	98	11 C			.70	.20	.27	.03		.98	.07	.07	.02				62	0
							58	17	23	3		86	6	6	2					
06/03/69	5050	5.88	8.8	60 F	7.3	68	--	--	3.0	--	0.0	37	--	1.7	--	--	0.0	--	--	26
0915	5002	1041	89	16 C					.13			.61		.05						0
									19			89		7						
07/07/69	5050	4.79	8.1	64 F	7.8	137	--	--	6.4	--	0.0	81	--	2.7	--	--	0.0	--	--	59
1105	5002	318	86	18 C					.28			1.33		.08						0
									20			97		5						
08/04/69	5050	4.13	7.2	70 F	8.0	216	--	--	9.9	--	0.0	130	--	4.7	--	--	0.0	--	--	92
0850	5002	12[illegible]	81	21 C					.43			2.13		.13						0
									19			98		6						
09/08/69	5050	3.96	7.4	66 F	8.3	311	--	--	18	--	0.0	186	--	7.3	--	--	0.1	--	--	135
1015	5002	89	80	19 C					.70			3.05		.21						0
									22			98		6						
				C5 1350.00			KERN RIVER BELOW ISABELLA DAM													
09/04/69	5050	9.86	9.2	68 F	7.1	67	7.1	1.4	4.4	1.2	0.0	33	2.3	1.5	0.2	--	0.0	--	43	24
0800	5002	2094	91	20 C			.35	.13	.19	.03		.54	.05	.04					34	0
							50	19	27	4		86	8	6						

TABLE D-2 (continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLE	[illegible]	DO DAT	TEMP		PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCM
				CS 1500.00				KERN RIVER AT KERNVILLE													
01/07/69	5050	[illegible]	11.5	38	F	7.4	146	--	--	13	--	0.0	65	--	5.8	--	--	0.1	--	--	52
0945	5002	24	88	3	C					.57			1.07		.15						0
										39			73		10						
05/20/69	5050	9.60	11.6	49	F	8.2	46	5.1	1.3	3.1	1.0	0.0	23	0.5	0.8	1.0	--	0.1	--	50	18
0900	5002	7700	87	9	C			.25	.11	.13	.03		.38	.01	.02	.02				24	0
								48	21	25	5		88	2	5	5					
07/07/69	5050	7.74	9.6	62	F	7.2	90	--	--	2.9	--	0.0	19	--	1.1	--	--	0.0	--	--	15
1315	5002	4141	97	18	C					.13			.31		.03						0
										32			77		7						
09/04/69	5050	6.39	8.5	62	F	8.0	88	--	--	7.2	--	0.0	43	--	2.6	--	--	0.0	--	--	28
0850	5002	584	89	17	C					.31			.71		.07						0
										35			80		7						

TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

This table presents trace mineral analyses performed by the Department of Water Resources Laboratory or U. S. Geological Survey Laboratory. The following are definitions of chemical symbols and of abbreviations used in this table.

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	LI	Lithium
BE	Beryllium	MN	Manganese
BI	Bismuth	MO	Molybdenum
BR	Bromine	NI	Nickel
CD	Cadmium	PB	Lead
CO	Cobalt	SR	Strontium
CR	Chromium	TI	Titanium
CU	Copper	V	Vanadium
FE	Iron	ZN	Zinc
GA	Gallium		

Abbreviations

LAB	Laboratory	U	Micrograms per liter
	5000 U.S. Geological Survey	Y	Less than the amount indicated
	5050 Dept. of Water Resources		
M	Milligrams per liter		

TABLE [illegible]-3

TRACE MINERAL ANALYSES [illegible] WATER

(Values in milligrams per liter unless indicated otherwise)

STATION NO.	DATE	TAB	AL	[illegible]	[illegible]	SR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	F	[illegible]	[illegible]
			[illegible]	TI	MO	NI	PB	[illegible]	[illegible]	[illegible]	[illegible]			
B02[illegible]	10-02-6[illegible]	[illegible]	[illegible]	[illegible]	--	--	--	--	--	[illegible]	[illegible]			--
			--	[illegible]	--	--	[illegible]	--	--		--			
B[illegible]311[illegible].00	10-03-6[illegible]	[illegible]	[illegible]	[illegible]	--	--	--	--	--	[illegible]	[illegible]		[illegible]	--
			--	[illegible]	--	--	[illegible]	--	--		--			
B[illegible]311[illegible].00	[illegible]-02-69	[illegible]	[illegible]	[illegible]	--	--	--	--	--	[illegible]	[illegible]	[illegible]	--	--
			--	[illegible]	--	--	[illegible]	--	--		--			
B[illegible]311 [illegible]00	9-17-69	[illegible]	3.3UY	--	1.3UY	[illegible].7UY	--	3.3UY	3.3UY	[illegible]UY	[illegible].5UY	[illegible]	[illegible]UY	[illegible]
			--	3.3UY	0.7UY	0.7UY	[illegible]	1.3UY	[illegible]	13UY	--			
B04105.0[illegible]	10-02-68	[illegible]	.02	[illegible].21	--	--	--	--	--	[illegible]	[illegible]	[illegible]	--	--
			--	[illegible].00	--	--	[illegible]	--	--		--			
B04105.[illegible]0	05-08-69	[illegible]	0.00	[illegible].00	--	--	--	--	--	[illegible]	[illegible]	[illegible]	--	--
			--	0.00	--	--	0.0[illegible]	--	--		--			
B04105.00	09-17-69	[illegible]	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	[illegible].3UY	3.3UY	[illegible]	13UY	[illegible].7UY
			--	3.3UY	0.7UY	0.7UY	3.3UY	1.3UY	4.7U	13UY	--			
B04150.00	10-03-68	[illegible]50	0.05	[illegible].01	--	--	--	--	--	--	[illegible].0[illegible]	[illegible].02	--	--
			--	[illegible].00	--	--	0.00	--	--	0.00	--			
B05125.00	10-03-68	[illegible]	[illegible].00	[illegible].03	--	--	--	--	--	--	[illegible]	[illegible]	--	--
			--	0.00	--	--	[illegible].00	--	--	0.00	--			
B05125.00	05-07-69	[illegible]050	0.00	[illegible].00	--	--	--	--	--	--	[illegible]	[illegible]	--	--
			--	0.00	--	--	0.00	--	--	0.00	--			
B05125.00	09-16-69	[illegible]000	5.5U	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	[illegible]	13UY	0.7UY
			--	3.3UY	0.7UY	0.7UY	3.3UY	1.3UY	0.8U	13UY	--			
B07020.00	10-09-68	5000	--	--	--	--	--	--	--	--	--	[illegible]	--	--
			0.01	--	--	--	--	--	--	--	[illegible].46			
B07020.00	11-06-68	5000	--	--	--	--	--	--	--	--	--	[illegible].04	--	--
			[illegible].01Y	--	--	--	--	--	--	--	0.32			
B07020.00	12-11-68	5000	--	--	--	--	--	--	--	--	--	0.01	--	--
			--	--	--	--	--	--	--	--	--			
B07020.00	01-17-69	5000	--	--	--	--	--	--	--	--	--	--	--	--
			0.01Y	--	--	--	--	--	--	--	0.09			
B07020.00	02-13-69	[illegible]000	--	--	--	--	--	--	--	--	--	0.04	--	--
			0.02Y	--	--	--	--	--	--	--	0.12			
B07020.00	03-19-69	5000	--	--	--	--	--	--	--	--	--	0.04	--	--
			0.02Y	--	--	--	--	--	--	--	0.21			
B07020.00	04-02-69	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
			--	--	--	--	--	--	--	--	--			
B07020.00	05-07-69	5050	0.01	0.00	--	--	--	--	--	--	0.00	--	--	--
			--	0.00	--	--	0.00	--	--	0.00	--			
B07020.00	05-07-69	5000	--	--	--	--	--	--	--	--	--	[illegible].02	--	--
			0.01Y	--	--	--	--	--	--	--	0.10			
B07020.00	06-04-69	5000	--	--	--	--	--	--	--	--	--	0.09	--	--
			0.01Y	--	--	--	--	--	--	--	0.07			
B07020.00	07-09-69	5000	--	--	--	--	--	--	--	--	--	[illegible].01	--	--
			0.01Y	--	--	--	--	--	--	--	0.1[illegible]			
B07020.00	08-07-69	5000	--	--	--	--	--	--	--	--	--	0.02	--	--
			0.01	--	--	--	--	--	--	--	0.44			
B07020.00	09-17-69	5000	3.3UY	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	13U	13UY	[illegible].7UY
			--	3.3UY	0.7UY	0.7UY	3.3UY	1.3UY	6.3U	13UY	--			
B07020.00	09-17-69	5000	--	--	--	--	--	--	--	--	--	0.16	--	--
			0.01Y	--	--	--	--	--	--	--	0.39			
B07040.00	10-03-68	5050	0.03	0.00	--	--	--	--	--	--	[illegible].00	0.00	--	--
			--	0.00	--	--	0.00	--	--	0.00	--			
B07080.00	10-02-68	5050	[illegible].00	0.00	--	--	[illegible].00	--	--	--	[illegible]	[illegible]	--	--
			--	0.00	--	--	--	--	--	[illegible].00	--			
B07200.00	10-02-68	5050	[illegible].04	0.00	--	--	--	--	--	--	[illegible]	[illegible].02	--	--
			--	0.00	--	--	0.00	--	--	[illegible].00	--			
B07250.00	10-03-68	[illegible]50	0.00	0.00	--	--	--	--	--	--	[illegible]	[illegible]	--	--
			--	0.00	--	--	0.00	--	--	[illegible].00	--			
B07375.00	10-02-68	5050	[illegible].02	0.01	--	--	--	--	--	--	[illegible]	[illegible]	--	--
			--	[illegible].00	--	--	0.00	--	--	[illegible].00	--			
B07375.00	05-07-69	[illegible]050	[illegible].1	0.00	--	--	--	--	--	--	[illegible]	3.6	--	--
			--	0.00	--	--	[illegible]	--	--	[illegible]	--			
B07375.00	09-16-69	[illegible]000	29U	--	1.3UY	0.7UY	--	3.3UY	3.3UY	3.3UY	3.3UY	[illegible]	[illegible].3UY	[illegible].7UY
			--	3.3UY	0.7UY	0.7UY	3.3UY	1.3UY	6.[illegible]	[illegible]UY	--			
B07885.00	10-04-68	[illegible]050	[illegible]	[illegible]	--	--	--	--	--	--	.01	[illegible]	--	--
			--	[illegible].00	--	--	[illegible].00	--	--	[illegible].01	--			
B5138[illegible].50	07-25-69	[illegible]000	-		-	--	--	--	--	--	--	[illegible].03	--	--
			--	--	--	--	--	--	--	--	--			
C01149.[illegible]	06-06-69	[illegible]050	[illegible].1	[illegible]	--	--			-	--	[illegible]	[illegible]	--	--
			--	[illegible].00	--	--	[illegible].00	--	--	[illegible].01	-	.62		

TABLE D-3 (Continued)

TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	TIME	AL LI	AS MO	BE MO	BI NI	BR PB	CD TI	CO V	CR CN	CU SR	FE	GA	GE
[illegible]	09-08-69	[illegible]	3.3UY --	-- 3.3UY	1.3UY 0.7UY	-- 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 13UY	3.3UY --	33U	13UY	0.7UY
[illegible]	[illegible]-69	[illegible]	[illegible] --	[illegible] 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.35	--	--
[illegible]	09-08-69	[illegible]00	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.5U	3.3UY 13UY	3.3UY --	180U	13UY	0.7UY
[illegible]	[illegible]-69	[illegible]050	[illegible] --	0.00 0.00	-- --	-- --	-- 0.01	-- --	-- --	-- 0.00	0.00 --	1.2	--	--
[illegible]	09-08-69	[illegible]000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7U	3.3UY 13UY	3.3UY --	30U	13UY	0.7UY
[illegible]	09-09-69	[illegible]050	-- --	0.01 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--

TABLE D-3

CORRECTIONS AND REVISIONS TO
PREVIOUSLY PUBLISHED REPORTS

The following two tables show corrected tabulations for Tables D-3 in Bulletin No. 130-67, Part IV, page 275, and No. 130-68, Part IV, page 205. The tables are printed as complete replacements. Symbols and abbreviations used are listed on page 218.

TABLE D-3

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
B00770.00	05-08-68	5050	0.00 --	0.00 0.00	-- --	-- --	-- 0.01M	-- --	-- --	-- 0.30	0.02M --	.07M	--	--
B03115.00	05-07-68	5050	0.03M --	0.00 0.00	-- --	-- --	-- 0.01M	-- --	-- --	-- 0.30	0.01M --	0.03M	--	--
B04105.00	05-07-68	5050	0.04M --	0.01M 0.00	-- --	-- --	-- 0.02M	-- --	-- --	-- 0.00	0.00 --	0.04M	--	--
B05125.00	05-07-68	5050	0.04M --	0.00 0.00	-- --	-- --	-- 0.01M	-- --	-- --	-- 0.01M	0.00 --	0.03M	--	--
B07020.00	10-04-67	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.3M	--	--	--
B07020.00	11-08-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.14M	--	--	--
B07020.00	12-06-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.22M	--	--	--
B07020.00	01-10-68	5000	-- 0.00	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.3M	--	--	--
B07020.00	02-08-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.35M	--	--	--
B07020.00	03-06-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.26M	--	--	--
B07020.00	04-03-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.30M	--	--	--
B07020.00	05-08-68	5000	-- 0.02M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.64M	--	--	--
B07020.00	06-05-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.63M	--	--	--
B07020.00	07-03-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.65M	--	--	--
B07020.00	08-07-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.56M	--	--	--
B07020.00	09-04-68	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.50M	--	--	--
B07375.00	05-07-68	5050	0.03M --	0.00 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.01M	0.00 --	0.03M	--	--
B07710.00	05-08-68	5050	0.00 --	0.01M 0.00	-- --	-- --	-- 0.01M	-- --	-- --	-- 0.00	0.00 --	0.18M	--	--
B64200.00	09-03-68	5050	0.03M --	0.01 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.00	--	--
B95925.00	05-08-68	5050	0.00 --	0.00 0.00	-- --	-- --	-- 0.02M	-- --	-- --	-- 0.00	0.01M --	0.06M	--	--
C01140.00	05-06-68	5050	0.00 --	0.00 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.01M	0.00 --	0.08M	--	--
C01140.00	09-09-68	5050	0.00 --	0.01M 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.01M	--	--
C02185.00	01-09-68	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C02185.00	09-10-68	5050	0.00 --	0.02M 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.03M	--	--
C03196.00	01-08-68	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C03196.00	09-03-68	5050	0.01M --	0.00 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.00	--	--
C05150.00	05-03-68	5050	0.02M --	0.01M 0.00	-- --	-- --	-- 0.01M	-- --	-- --	-- 0.01M	0.01M --	0.00	--	--
C05150.00	09-03-68	5050	0.00 --	0.00 0.00	-- --	-- --	-- 0.02M	-- --	-- --	-- 0.00	0.00 --	0.00	--	--
C11140.00	09-09-68	5050	0.06M --	0.01M 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.01M --	0.00	--	--
C11460.00	09-09-68	5050	0.00 --	0.00 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.01M	0.00 --	0.11M	--	--
C21250.00	01-09-68	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C21250.00	09-10-68	5050	0.00 --	0.00 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.02M	--	--
C31150.00	01-08-68	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C31150.00	05-06-68	5050	0.03M --	0.01M 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.01M	0.00 --	0.04M	--	--
C31150.00	09-03-68	5050	0.01M --	0.01M 0.00	-- --	-- --	-- 0.03M	-- --	-- --	-- 0.00	0.00 --	0.00	--	--
C51350.00	09-03-68	5050	0.03M --	0.03M 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.00	--	--
C51500.00	09-03-68	5050	0.00 --	0.04M 0.00	-- --	-- --	-- 0.00	-- --	-- --	-- 0.00	0.00 --	0.00	--	--

TABLE D-3

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
B0347[illegible]	[illegible]-03-67	505[illegible]	-- --	[illegible].00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0347[illegible]	[illegible]-11-67	[illegible]	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0377[illegible]	[illegible]-08-67	[illegible]	-- --	0.03M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0377[illegible].00	[illegible]-08-67	[illegible]	[illegible].1U --	-- 1.4UY	0.6UY 2.8U	0.3UY 2.4U	-- 1.4UY	1.4UY 0.6UY	1.4UY 2.9U	1.4UY [illegible].7U	1.4UY --	17U	5.7UY	[illegible].3UY
B0377[illegible]	09-14-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0311[illegible]	05-[illegible]4-67	[illegible]000	0.27U --	0.00 3.3UY	1.3UY 0.7UY	[illegible].7UY 21U	-- 3.3UY	3.3UY 1.8U	3.3UY 1.3U	3.3UY 13UY	3.3UY --	11UY	13UY	0.6UY
B0311[illegible].00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0415[illegible].00	05-05-67	5000	15U --	0.00 3.3UY	1.3UY 0.7UY	0.7UY 8.7U	-- 3.3UY	3.3UY 1.3UY	6.7U 1.4U	3.3UY 13UY	3.3UY --	18U	13UY	0.7UY
B0415[illegible].00	05-05-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0415[illegible].00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0415[illegible].00	09-14-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B0512[illegible].00	[illegible]-03-67	5000	6UY --	0.00 1.4UY	0.6UY 0.3UY	0.3UY 2.3U	-- 1.4UY	1.4UY 1.9U	6.3U 1.1U	1.4UY 5.7UY	1.4UY --	34U	5.7UY	0.3UY
B0512[illegible].00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07020.00	10-05-66	5000	-- 0.01M	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.40M	--	--	--
B07020.00	11-09-66	5000	-- 0.02MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.20M	--	--	--
B07020.00	12-07-66	5000	-- 0.02MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.13M	--	--	--
B07020.00	01-04-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.32M	--	--	--
B07020.00	02-01-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.16M	--	--	--
B07020.00	03-02-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.20M	--	--	--
B07020.00	04-05-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.20M	--	--	--
B07020.00	05-03-67	5000	103U 0.01MY	0.00 1.4UY	0.6UY 0.3UY	0.3UY 2.6U	-- 1.4UY	1.4UY 3.1U	1.4UY 4.0U	1.4UY 5.7UY	1.4UY 0.11M	19UY	5.7UY	0.3UY
B07020.00	06-06-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.10M	--	--	--
B07020.00	07-25-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.25M	--	--	--
B07020.00	08-09-67	5000	-- 0.02MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.10M	--	--	--
B07020.00	09-11-67	5000	-- 0.01MY	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.30M	--	--	--
B07040.00	06-06-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07040.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07080.00	05-04-67	5050	-- --	0.00	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07080.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07200.00	05-04-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07200.00	09-11-67	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07250.00	05-04-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07250.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07375.00	[illegible]-03-67	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07375.00	[illegible]-03-67	5000	263U --	-- 1.4UY	0.6UY 0.3UY	0.3UY 2.2U	-- 1.4UY	1.4UY 6.0U	1.4UY 3.4U	[illegible].7U 5.7UY	11U	13UY	[illegible].7UY	[illegible].3UY
B07375.[illegible]	[illegible]-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--

TABLE D-3 (Continued)

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	CA	GE
B07710.00	05-08-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07710.00	09-14-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B07885.00	05-08-67	5050	-- --	0.02M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	-	--
B07885.00	09-12-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B64200.00	05-16-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B64200.00	09-12-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B67150.00	05-17-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B67150.00	09-12-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
B95925.00	05-03-67	5000	80U --	0.00 1.4UY	0.6UY 0.3UY	0.3UY 2.7U	-- 1.4UY	1.4UY 2.9U	1.4UY 3.4U	1.4UY 5.7UY	14UY --	51U	5.7UY	0.3UY
B95925.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C01140.00	05-08-67	5000	54U --	0.00 1.4UY	0.6UY 1.6U	0.3UY 1.8U	-- 1.4UY	1.4UY 1.1U	1.4UY 0.9U	1.4UY 5.7UY	1.4UY --	31U	5.7U	0.3UY
C01140.00	09-15-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C02185.00	05-16-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C02185.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C03196.00	05-15-67	5000	120U --	0.00 3.3U	1.3UY 0.7UY	0.7UY 4.1U	-- 3.3UY	3.3UY 4.1U	3.3UY 2.8U	3.3UY 13UY	3.3UY -	55U	13UY	0.7UY
C03196.00	09-03-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C05150.00	05-10-67	5000	267U --	-- 3.3UY	1.3U 5.9U	0.7UY 3.6U	-- 3.3U	3.3UY 6.1U	3.3UY 2.3U	3.3U 13UY	3.3UY --	80U	13UY	0.7U
C05150.00	05-10-67	5050	-- --	20.0U --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C05150.00	09-26-67	5050	-- --	10.0U --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C11140.00	05-08-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C11140.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C11320.00	05-08-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C11320.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C11460.00	05-08-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C11460.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C21250.00	05-16-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C21250.00	09-11-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C31150.00	05-15-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C31150.00	09-03-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C51350.00	05-11-67	5050	-- --	0.02M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--

TABLE D-3 (Continued)

TRACE MINERAL ANALYSIS OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
C41350.00	07-25-67	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C51350.00	09-00-67	5050	-- --	0.02M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C41500.00	05-11-67	5050	-- --	0.02M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C51500.00	07-25-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--
C51500.00	09-30-67	5050	-- --	0.00 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	--	--	--

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 presents analyses which do not appear on Tables D-2 and D-3. The definitions of symbols and of abbreviations used in this table are as follows:

TRB	Turbidity
POT	Total and organic phosphates (As P)
NH_3+N	Ammonia plus Organic Nitrogen (As N)
NO_3	Nitrate

Analyses were performed by Department of Water Resources Laboratory (5050) or U. S. Geological Survey Laboratory (5000).

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO.	DATE	LAB	TRB	NH_3+N	NO_3	POT
B00770.00	10-09-68	5050		0.2		0.68
	11-06-68	5050		0.3		0.54
	12-11-68	5050		0.4		0.53
	2-05-69	5050		0.6		0.47
	3-05-69	5050		0.4		0.48
	4-09-69	5050		0.5		0.26
	5-07-69	5050		0.57		0.47
	6-04-69	5050		0.4		0.38
	7-02-69	5050		0.2		0.21
	8-06-69	5050		1.2		0.62
	9-10-69	5050		0.4		0.19
B03115.00	10-02-68	5050		0.3	8.4	0.61
B04105.00	10-02-68	5050		0.7	5.9	2.2
B05125.00	10-02-68	5050		0.5	6.1	0.48
B07020.00	10-02-68	5050		0.7	8.4	1.0
	12-11-68	5000	25			0.05
	1-17-69	5000	30			0.78
	2-13-69	5000	91			0.35
	3-19-69	5000	70			0.33
	4-02-69	5000	49			
	5-07-69	5000	30			0.35
	6-04-69	5000	45			0.19
	7-09-69	5000	40			0.48
	8-07-69	5000	30			1.1
	9-17-69	5000	32		4.8	0.82
B07040.00	10-02-68	5050		0.7	7.3	1.3
B07080.00	10-02-68	5050		1.3	11.0	2.1
B07200.00	10-02-68	5050		0.8	7.6	1.3
B07250.00	10-02-68	5050		0.7	6.5	1.8
B07375.00	10-02-68	5050		0.9	2.6	1.3
B51375.50	9-22-69	5000			1.4	
B95925.00	10-09-68	5050		0.4		0.83
	11-06-68	5050		0.3		0.44
	12-11-68	5050		0.4		0.56
	2-05-69	5050		1.1		1.2
	3-05-69	5050		0.6		1.6
	4-09-69	5050		0.4		0.38
	5-07-69	5050		0.75		1.2
	6-04-69	5050		0.7		0.74
	7-02-69	5050		0.4		0.4
	8-06-69	5050		0.6		0.25
	9-10-69	5050		0.5		0.23
C02185.00	11-04-68	5050	15			
C03196.00	11-04-68	5050	5			
C11140.00	11-12-68	5050	3			
C11320.00	11-12-68	5050	3			
C11460.00	11-12-68	5050	2			
C13250.30	10-17-68	5050	2			0.0
	8-24-69	5050	2			0.02
C13260.30	10-17-68	5050	2			0.01
	8-24-69	5050	2			0.02
C21250.00	11-04-68	5050	5			
C31150.00	11-04-68	5050	2			

APPENDIX E

GROUND WATER QUALITY

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1969 water year (October 1, 1968 through September 30, 1969). These data were obtained from analyses of water samples from approximately 400 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 151.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various laboratories and agencies cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation.

5000 U. S. Geological Survey Laboratory
5050 State Department of Water Resources
5055 California Regional Water Quality Control Boards
5060 State Department of Public Health
5070 State Division of Forestry
5121 Kern County Water Agency
5203 City of Modesto
5207 City of Firebaugh
5521 Modesto Irrigation District
5702 Individual Property Owner
5703 Valley Waste Disposal Company
5802 Twining Laboratory
5803 Hornkohl Laboratory
5806 B. C. Laboratory

Explanation of county code is listed on page 12

Chemical Symbols

K	Potassium	B	Boron
MG	Magnesium	CA	Calcium
NA	Sodium	CL	Chloride
NO3	Nitrate	CO3	Carbonate
SIO2	Silica	F	Fluoride
SO4	Sulfate	HCO3	Bicarbonate

Abbreviations

EC	Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Temperature
LAB	Laboratory	TH	Total Hardness
NCH	Non Carbonate Hardness	SAR	Sodium Absorption Ratio

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE TIME	COUNTY CAR	SAMPLER	TEMP PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
02S/04E-06L01M	39	5050	--	2610	36	52	476	--	0	342	--	539	--	--	--	--	--	304
06/11/69 --		5050	7.8		1.80	4.28	20.71		0.00	6.42		15.20					--	0
02S/04E-08F01M	39	5050	--	1710	38	22	332	--	0	432	--	213	--	--	--	--	--	185
06/11/69 --		5050	8.1		1.90	1.81	14.44		0.00	7.08		6.01					--	0
02S/04E-08L01M	39	5050	--	3360	62	62	649	--	16	371	--	600	--	--	--	--	--	409
06/11/69 --		5050	8.5		3.09	5.10	28.23		0.53	6.08		16.92					--	78
02S/04E-09A01M	39	5050	--	3680	97	100	596	--	0	224	--	730	--	--	--	--	--	652
06/11/69 -		5050	8.1		4.84	8.22	25.92		0.00	3.67		20.59					--	468
02S/04E-15N01M	39	5050	--	1610	35	34	274	--	0	274	--	284	--	--	--	--	--	228
06/11/69 --		5050	6.0		1.75	2.80	11.92		0.00	4.49		8.01					--	3
02S/04E-16H01M	39	5050	--	2280	97	60	318	--	0	240	--	443	--	--	--	--	--	490
06/11/69 --		5050	7.8		4.84	4.93	13.83		0.00	3.93		12.49					--	293
02S/04E-16L01M	39	5050	--	2880	72	76	476	--	0	309	--	464	--	--	--	--	--	491
06/11/69 --		5050	8.1		3.59	6.25	20.71		0.00	5.06		13.08					--	238
02S/04E-25J01M	39	5050	--	1940	97	45	276	--	0	185	--	296	--	--	--	--	--	426
06/11/69 --		5050	8.0		4.84	3.70	12.01		0.00	3.03		8.35					--	274
02S/04E-27J02M	39	5050	--	2480	68	65	418	--	0	210	--	354	--	--	--	--	--	433
06/11/69 --		5050	8.2		3.29	5.34	18.18		0.00	3.44		9.98					--	261
03S/05E-05P01M	39	5050	--	982	72	21	108	--	0	201	--	110	--	--	--	--	--	267
06/11/69 --		5050	8.0		3.59	1.73	4.70		0.00	3.29		3.10					--	102
03S/05E-06A01M	39	5050	--	1340	100	28	134	--	0	166	--	260	--	--	--	--	--	364
06/11/69 --		5050	8.0		4.99	2.30	5.83		0.00	2.72		7.33					--	228
03S/05E-15K01M	39	5050	--	1840	174	43	162	--	0	110	--	277	--	--	--	--	--	611
06/10/69 --		5050	7.7		8.68	3.54	7.05		0.00	1.80		7.81					--	521
03S/05E-17R01M	39	5050	--	1040	91	20	100	--	0	153	--	116	--	--	--	--	--	308
06/10/69 --		5050	8.0		4.54	1.64	4.35		0.00	2.51		3.27					--	182
03S/05E-25M01M	39	5050	--	849	61	20	93	--	0	197	--	124	--	--	--	--	--	234
06/10/69 --		5050	8.0		3.04	1.64	4.04		0.00	3.23		3.50					--	72
03S/05E-26K01M	39	5050	--	3040	322	96	339	--	0	113	--	116	--	--	--	--	--	1200
06/10/69 --		5050	7.9		16.07	7.89	14.75		0.00	1.85		3.27					--	1107
03S/06E-17R01M	39	5050	--	1540	110	30	186	--	0	303	--	235	--	--	--	--	--	399
06/10/69 --		5050	7.7		5.49	2.47	8.09		0.00	4.97		6.63					--	150
03S/06E-18R01M	39	5050	--	1560	120	32	189	--	0	231	--	171	--	--	--	--	--	433
06/10/69 --		5050	7.8		5.99	2.63	8.22		0.00	3.79		4.82					--	243
03S/06E-28N01M	39	5050	--	997	92	24	90	--	0	166	--	110	--	-	--	--	--	327
06/10/69 --		5050	8.0		4.59	1.97	3.91		0.00	2.72		3.10					--	191
04S/06E-06A01M	50	5050	--	676	35	16	84	--	0	107	--	55	--	--	--	--	--	155
06/10/69 --		5050	7.8		1.75	1.31	3.65		0.00	1.75		1.55					--	67
04S/06E-08R01M	50	5050	--	803	69	22	51	--	0	81	--	138	--	--	--	--	--	261
06/10/69 --		5050	7.6		3.44	1.81	2.22		0.00	1.33		3.89					--	195
04S/06E-26P01M	50	5050	--	744	35	18	99	--	0	163	--	81	--	--	--	--	--	160
06/10/69 --		5050	8.2		1.75	1.48	4.31		0.00	2.67		2.28					--	26
04S/06E-26J01M	50	5050	--	769	36	21	99	--	0	196	--	75	--	--	--	--	--	176
06/10/69 --		5050	7.9		1.80	1.73	4.31		0.00	3.21		2.11					--	15
05S/07E-08J01M	50	5050	--	976	38	71	77	--	8	296	--	68	--	--	--	--	--	386
06/10/69 --		5050	8.4		1.90	5.84	3.35		0.27	4.85		1.92					--	130
05S/07E-13A01M	50	5050	--	2390	105	175	170	--	0	496	--	351	--	--	--	--	--	983
06/10/69 --		5050	8.2		5.24	14.39	7.39		0.00	8.13		9.90					--	576
05S/07E-35G01M	50	5050	--	947	85	40	48	--	0	258	--	120	--	--	--	--	--	378
06/10/69 --		5050	7.9		4.24	3.29	2.09		0.00	4.23		3.38					--	166
05S/08E-32P01M	50	5050	--	1930	126	60	245	--	0	352	--	192	--	--	--	--	--	564
06/11/69 --		5050	8.2		6.29	4.93	10.66		0.00	5.77		5.41					--	275
06S/08E-07A01M	50	5050	--	1940	3	3	448	--	1	208	--	87	--	--	--	--	--	19
06/11/69 --		5050	8.4		0.15	0.25	19.49		0.03	3.41		2.45					--	0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY	LAB SAMPLE NO.	TEMP	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				TDS 180C (*105C)	TH NCH
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	SUM	
06S/04E-21N01M		50	5050	--	1400	108	63	122	--	1	161	--	78	--	--	--	--	--	530
06/11/69	--		5050	8.4		5.39	5.18	5.31		0.03	2.64		2.20					--	396
06S/08E-26F01M		50	5050	--	938	80	36	77	--	4	254	--	62	--	--	--	--	--	348
06/11/69	--		5050	8.4		3.99	2.96	3.35		0.13	4.16		1.75					--	133
06S/08E-32K01M		50	5050	--	1210	69	44	145	--	0	138	--	42	--	--	--	--	--	352
06/11/69	--		5050	7.9		3.44	3.62	6.31		0.00	2.26		1.18					--	239
07S/08E-1-E01M		50	5050	--	2140	143	97	152	--	0	222	--	490	--	--	--	--	--	757
06/10/69	--		5050	7.6		7.13	7.98	6.61		0.00	3.64		13.82					--	575
07S/08E-17P01M		50	5050	--	896	35	55	80	--	0	286	--	36	--	--	--	--	--	316
06/10/69	--		5050	8.1		1.75	4.52	3.48		0.00	4.69		1.07					--	81
07S/08E-25M01M		50	5050	--	982	78	38	81	--	3	280	--	115	--	--	--	--	--	351
06/10/69	--		5050	8.4		3.89	3.12	3.52		0.10	4.59		3.24					--	116
08S/08E-14N01M		24	5050	--	951	102	45	42	--	9	345	--	92	--	--	--	--	--	441
06/10/69	--		5050	8.4		5.09	3.70	1.83		0.30	5.65		2.59					--	143
08S/08E-21A01M		24	5050	--	1230	112	44	72	--	0	229	--	143	--	--	--	--	--	462
06/10/69	--		5050	7.9		5.59	3.62	3.13		0.00	3.75		4.03					--	274
08S/09E-32D01M		24	5050	--	1220	71	62	108	--	0	387	--	141	--	--	--	--	--	433
06/10/69	--		5050	8.0		3.54	5.10	4.70		0.00	6.34		3.98					--	116
08S/22E-28K01M		24	5050	70	550	43	--	57	--	0	144	--	90	0.0	0.6	--	--	--	133
01/27/69	800		5050	8.1		2.14		2.48		0.00	2.36		2.54	0.00				--	15
		24	5050	--	--	47	5	57	--	0	150	4	96	0.0	0.4	0.10	--	353	137
01/29/69	--		5050	7.4		2.34	0.41	2.48		0.00	2.46	0.08	2.71	0.00				284	14
SAR = 2.11						45	8	47		0	47	2	52	0					
09S/08E-12R01M		24	5050	--	1240	78	55	116	--	0	372	--	139	--	--	--	--	--	422
06/10/69	--		5050	7.7		3.89	4.52	5.05		0.00	6.10		3.92					--	117
09S/09E-18N01M		24	5050	--	778	53	30	81	--	0	303	--	67	--	--	--	--	--	254
06/10/69	--		5050	8.1		2.64	2.47	3.52		0.00	4.97		1.89					--	5
09S/09E-31C01M		24	5050	--	1300	44	29	222	--	3	405	--	157	--	--	--	--	--	230
06/10/69	--		5050	8.4		2.19	2.38	9.66		0.10	6.64		4.43					--	0
13S/19E-25A03M		10	5050	--	666	68	47	32	8	0	123	7	194	17.0	--	0.00	--	579	316
11/27/68	--		5050	8.1		3.39	3.86	1.39	0.20	0.00	2.01	0.14	5.47	0.27				434*	215
SAR = 0.73						38	44	16	2	0	25	2	69	3					
13S/19E-25G01M		10	5050	--	817	48	23	76	9	0	210	14	141	11.0	--	0.00	--	488	214
11/27/68	--		5050	8.2		2.39	1.89	3.31	0.23	0.00	3.44	0.29	3.98	0.18				426	42
SAR = 2.26						31	24	42	3	0	44	4	50	2					
15S/22E-04B01M		10	5050	--	130	11	7	8	--	0	61	--	3	5.6	--	--	--	--	55
02/28/69	1027		5050	7.9		0.55	0.57	0.35		0.00	1.00		0.08	0.09				--	5
		10	5050	--	465	35	22	32	--	0	258	--	9	7.2	--	--	--	--	176
02/28/69	1022		5050	8.2		1.75	1.81	1.39		0.00	4.23		0.25	0.12				--	0
		10	5050	--	710	75	35	32	--	23	396	--	19	6.2	--	--	--	--	331
02/28/69	1024		5050	8.6		3.74	2.88	1.39		0.77	6.49		0.53	0.10				--	0
15S/22E-04C01M		10	5050	--	994	46	47	116	--	0	514	--	26	5.0	--	--	--	--	309
02/28/69	--		5050	8.2		2.29	3.86	5.05		0.00	8.42		0.73	0.08				--	0
15S/22E-04M01M		10	5050	--	1210	109	80	59	--	0	825	--	24	0.0	--	--	--	--	602
02/28/69	--		5050	7.9		5.44	6.58	2.57		0.00	13.52		0.68	0.00				--	0
15S/22E-05A01M		10	5050	--	798	43	43	76	--	12	321	--	12	25.0	--	--	--	--	283
02/28/69	--		5050	8.5		2.14	3.54	3.31		0.40	5.26		0.34	0.40				--	0
15S/22E-05J01M		10	5050	--	774	44	35	72	--	0	321	--	10	28.0	--	--	--	--	266
02/28/69	--		5050	8.1		2.19	3.12	3.13		0.00	5.26		0.28	0.45				--	3
15S/24E-23G01M		10	5050	--	630	67	23	31	2	0	244	42	29	55.0	--	0.00	--	396	262
08/21/69	900		5050	8.1		3.34	1.89	1.35	0.05	0.00	4.00	0.87	0.82	0.89				369	62
SAR = 0.83						50	28	20	1	0	61	13	12	13					
15S/24E-26C01M		10	5050	--	644	80	--	35	--	0	295	--	31	43.0	--	--	--	--	346
08/21/69	1010		5050	8.3		3.99		1.52		0.00	4.83		0.87	0.69				--	104
15S/24E-27B01M		10	5050	--	706	74	--	36	--	0	293	--	21	56.0	--	--	--	--	303
08/21/69	950		5050	8.1		3.69		1.57		0.00	4.80		0.59	0.90				--	63
17S/22E-11P01M		16	5050	67	706	27	--	91	--	0	316	--	17	28.0	--	--	--	--	168
07/06/69	830		5050	8.0		1.35		3.96		0.00	5.16		0.48	0.45				--	0
17S/22E-24E01M		16	5050	67	338	37	--	17	--	0	167	--	6	17.0	--	--	--	--	140
07/06/69	800		5050	8.2		1.85		0.74		0.00	2.74		0.17	0.27				--	3
17S/22E-28A01M		16	5050	68	240	30	--	8	--	0	112	--	8	1.1	--	--	--	--	104
07/06/69	900		5050	8.1		1.50		0.35		0.00	1.83		0.22	0.02				--	12
18S/21E-03J01M		16	5050	66	253	28	--	14	--	0	109	--	7	4.9	--	--	--	--	93
07/06/69	1030		5050	7.9		1.40		0.61		0.00	1.79		0.20	0.08				--	4
18S/21E-21M01M		16	5050	63	147	3	--	31	--	0	83	--	3	0.1	--	--	--	--	10
07/06/69	1000		5050	7.9		.15		1.35		0.00	1.36		0.06	0.00				--	0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE TIME	COUNTY	LAB SAMPLE NO	TEMP PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
205/22E-03H01M	16	5050	61	231	14	--	33	--	0	87	--	19	7.6	--	--	--	--	40
07/01/59 1300		5050	7.8		0.70		1.43		0.00	1.42		0.53	0.12				--	0
215/27E-17J01M	54	5050	--	628	74	--	44	--	0	266	--	28	38.0	--	0.20	--	--	224
10/28/68 1445		5050	8.2		3.69		1.91		0.00	4.36		0.79	0.61				--	6
215/27E-21A01M	54	5050	--	859	93	--	49	--	0	366	--	41	40.0	--	0.10	--	--	325
10/28/68 1530		5050	7.8		4.64		2.13		0.00	6.00		1.16	0.64				--	25
215/27E-21F02M	54	5050	--	572	60	--	30	--	0	302	--	12	25.0	--	0.10	--	--	246
10/28/68 1430		5050	8.3		3.99		1.30		0.00	4.95		0.34	0.40				--	0
215/27E-21K02M	54	5050	--	502	33	--	26	--	0	219	--	21	29.0	--	0.10	--	--	203
10/28/68 1420		5050	8.3		1.65		1.13		0.00	3.59		0.59	0.47				--	23
215/27E-21N01M	54	5050	--	277	36	--	13	--	0	144	--	8	3.2	--	0.00	--	--	112
10/28/68 1400		5050	8.0		1.80		0.56		0.00	2.36		0.22	0.05				--	0
215/27E-21P01M	54	5050	--	346	44	--	20	--	0	160	--	11	--	--	0.10	--	--	134
10/28/68 1415		5050	8.1		2.19		0.87		0.00	2.62		0.31					--	3
215/27E-21R02M	54	5050	--	358	42	--	23	--	0	163	--	12	--	--	0.10	--	--	131
10/28/68 1025		5050	8.1		2.09		1		0.00	2.67		0.34					--	0
215/27E-22M01M	54	5050	--	631	80	--	36	--	0	277	--	35	--	--	0.30	--	--	256
10/28/68 1525		5050	8.0		3.99		1.57		0.00	4.54		0.99					--	29
215/27E-22M02M	54	5050	--	418	49	--	31	--	0	189	--	16	--	--	0.10	--	--	147
10/28/68 1545		5050	8.2		2.44		1.35		0.00	3.10		0.45					--	0
215/27E-27C01M	54	5050	--	278	33	--	21	--	0	138	--	10	--	--	0.00	--	--	105
10/28/68 1000		5050	8.1		1.65		0.91		0.00	2.26		0.28					--	0
215/27E-27C02M	54	5050	--	544	44	--	58	--	0	218	--	33	18.0	--	0.40	--	--	151
10/28/68 1010		5050	8.1		2.19		2.52		0.00	3.57		0.93	0.29				--	0
215/27E-27D01M	54	5050	--	548	35	--	65	--	0	209	--	37	--	--	0.70	--	--	136
10/28/68 1035		5050	7.8		1.75		2.83		0.00	3.42		1.04					--	0
215/27E-27F01M	54	5050	--	612	29	--	80	--	0	224	--	47	--	--	0.60	--	--	134
10/28/68 900		5050	7.9		1.45		3.48		0.00	3.67		1.32					--	0
215/27E-27G01M	54	5050	--	386	50	--	20	--	0	169	--	17	--	--	0.00	--	--	152
10/28/68 1205		5050	8.2		2.49		0.87		0.00	2.77		0.48					--	13
215/27E-27G03M	54	5050	--	298	33	--	23	--	0	144	--	12	--	--	0.10	--	--	115
10/28/68 930		5050	7.8		1.65		1		0.00	2.36		0.34					--	0
215/27E-27K01M	54	5050	--	377	40	--	14	--	0	159	--	16	--	--	0.00	--	--	153
10/28/68 1220		5050	8.2		1.99		0.61		0.00	2.61		0.45					--	23
215/27E-27L02M	54	5050	--	414	39	--	20	--	0	173	--	19	--	--	0.00	--	--	160
10/28/68 1230		5050	8.2		1.95		0.87		0.00	2.83		0.53					--	18
215/27E-27M02M	54	5050	--	408	41	--	26	--	1	189	--	14	--	--	0.20	--	--	148
10/28/68 1245		5050	8.4		2.04		1.13		0.03	3.10		0.39					--	0
215/27E-28A01M	54	5050	--	448	47	--	26	--	0	158	--	14	--	--	0.20	--	--	156
10/28/68 1045		5050	8.1		2.34		1.13		0.00	2.59		0.39					--	26
215/27E-28A02M	54	5050	--	364	38	--	26	--	0	155	--	16	--	--	0.10	--	--	119
10/28/68 1100		5050	7.9		1.90		1.13		0.00	2.54		0.45					--	0
215/27E-28E02M	54	5050	--	562	63	--	47	--	13	240	--	21	--	--	0.10	--	--	199
10/28/68 1350		5050	8.5		3.14		2.04		0.43	3.93		0.59					--	0
215/27E-28H02M	54	5050	--	256	32	--	15	--	0	131	--	10	--	--	0.00	--	--	98
10/28/68 1105		5050	8.3		1.60		0.65		0.00	2.15		0.28					--	0
215/27E-28J02M	54	5050	--	477	65	--	30	--	0	228	--	10	--	--	0.10	--	--	185
10/28/68 1300		5050	8.3		3.24		1.30		0.00	3.74		0.45					--	0
245/19E-02R01M	54	5050	75	6900	126	128	1160	8	0	278	436	1900	2.6	--	4.70	--	4070	841
04/29/69 1400		5050	7.5		6.29	10.53	50.46	0.20	0.00	4.56	9.08	53.58	0.04				3902	613
SAR = 17.40					9	16	75	0	0	7	13	80	0					
245/19E-25E01M	54	5050	76	21700	255	307	4630	20	0	582	385	7780	0.0	--	7.80	--	13400	1900
04/29/69 1700		5050	7.2		12.72	25.25	201.40	0.51	0.00	9.54	8.01	219.40	0.00				13671	1423
SAR = 46.22					5	10	84	0	0	4	3	93	0					
245/24E-04P02M	54	5050	--	1640	4	--	398	--	20	633	--	171	0.1	--	1.80	--	--	12
10/28/68 1330		5050	8.6		0.20		16.96		0.67	10.37		4.82	0.00				--	0
245/24E-09Q02M	54	5050	--	303	15	--	61	--	0	141	--	12	2.3	--	0.20	--	--	38
10/28/68 1315		5050	7.1		0.75		2.65		0.00	2.31		0.34	0.04				--	0
	54	5050	--	48	--	--	9	--	0	20	--	3	--	--	--	--	--	1
03/04/69 --		5050	7.5				0.39		0.00	0.33		0.08					--	0
	54	5050	--	261	4	--	56	--	13	82	--	11	1.1	--	0.20	--	--	12
03/04/69 --		5050	8.5		0.20		2.44		0.43	1.34		0.31	0.02				--	0
245/25E-35R01M	54	5050	72	596	48	11	77	3	0	291	45	13	31.0	--	0.10	--	387	164
08/26/69 845		5050	7.9		2.39	0.96	3.35	0.08	0.00	4.77	0.94	0.37	0.50				372	0
SAR = 2.61					36	13	50	1	0	73	14	6	8					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
24S/26E-30F01M		54	5050	75		841	75	--	78	--	0	255	--	45	114.0	--	--	--	--	276
08/26/69	920		5050	7.8			3.74		3.39		0.00	4.18		1.27	1.84				--	67
25S/25E-01C01M		15	5050	--		394	28	--	51	--	0	112	--	22	44.0	--	--	--	--	99
08/26/69	--		5050	7.9			1.40		2.22		0.00	1.83		0.62	0.71				--	7
25S/25E-01F01M		15	5050	--		316	13	--	49	--	0	104	--	19	18.0	--	--	--	--	56
08/26/69	--		5050	7.9			0.65		2.13		0.00	1.70		0.53	0.29				--	0
25S/25E-02M01M		15	5050	--		329	24	--	43	--	0	103	--	19	12.0	--	--	--	--	74
08/26/69	--		5050	7.9			1.20		1.87		0.00	1.69		0.53	0.19				--	0
25S/25E-02R02M		15	5050	--		494	44	--	52	--	0	122	--	35	51.0	--	--	--	--	134
08/26/69	--		5050	7.9			2.19		2.26		0.00	2.00		0.99	0.82				--	34
25S/25E-10A01M		15	5050	--		576	58	--	54	--	0	131	--	46	44.0	--	--	--	--	174
08/26/69	--		5050	7.9			2.89		2.35		0.00	2.15		1.30	0.71				--	67
25S/25E-11E01M		15	5050	--		511	39	--	66	--	0	82	--	55	29.0	--	--	--	--	105
08/26/69	--		5050	7.8			1.95		2.87		0.00	1.34		1.55	0.47				--	38
25S/25E-11M01M		15	5050	--		526	44	--	60	--	0	95	--	44	70.0	--	--	--	--	125
08/26/69	--		5050	7.6			2.19		2.61		0.00	1.56		1.24	1.13				--	47
25S/25E-11J01M		15	5050	--		736	56	--	91	--	0	77	--	44	118.0	--	--	--	--	156
08/26/69	--		5050	7.9			2.79		3.96		0.00	1.26		1.24	1.90				--	93
25S/25E-11P01M		15	5050	--		663	51	--	80	--	0	77	--	86	41.0	--	--	--	--	144
08/26/69	--		5050	7.8			2.54		3.48		0.00	1.26		2.42	0.66				--	81
25S/25E-12C01M		15	5050	--		447	12	--	85	--	0	69	--	38	29.0	--	--	--	--	32
08/26/69	--		5050	8.2			0.60		3.70		0.00	1.13		1.07	0.47				--	0
25S/25E-12E01M		15	5050	--		667	50	--	80	--	0	117	--	60	92.0	--	--	--	--	156
08/26/69	--		5050	8.0			2.49		3.48		0.00	1.92		1.69	1.48				--	60
25S/25E-12R01M		15	5050	--		700	57	16	61	4	0	213	80	34	59.0	--	0.00	--	499	207
08/26/69	1535		5050	7.7			2.84	1.31	2.65	0.10	0.00	3.49	1.66	0.96	0.95				416	32
SAR =	1.84						41	19	38	1	0	49	24	14	13					
25S/25E-22P01M		15	5050	--		1130	125	--	112	--	*0	91	--	126	38.0	--	--	--	--	350
08/27/69	1105		5050	7.9			6.24		4.87		0.00	1.49		3.55	0.61				--	275
25S/25E-25D01M		15	5050	85		1170	113	--	131	--	0	57	--	171	22.0	--	--	--	--	295
08/26/69	1500		5050	7.6			5.64		5.70		0.00	0.93		4.82	0.35				--	248
25S/25E-27R01M		15	5050	--		1170	121	9	107	1	0	95	213	170	44.0	--	0.00	--	817	342
08/26/69	1515		5050	7.6			6.04	0.74	4.65	0.02	0.00	1.56	4.43	4.79	0.71				712	264
SAR =	2.53						53	6	41	0	0	13	39	42	6					
25S/25E-28R02M		15	5050	74		1520	200	--	95	--	0	58	--	316	36.0	--	--	--	--	534
08/27/69	1115		5050	7.4			9.98		4.13		0.00	0.95		8.91	0.58				--	486
25S/25E-36C01M		15	5050	80		612	29	2	83	1	0	38	112	79	17.0	--	0.00	--	380	83
08/26/69	1445		5050	8.2			1.45	0.16	3.61	0.02	0.00	0.62	2.33	2.23	0.27				342	52
SAR =	4.02						28	3	69	0	0	11	43	41	5					
25S/26E-01R01M		15	5050	77		454	29	--	57	--	0	110	--	33	30.0	--	0.00	--	--	84
08/27/69	--		5050	7.9			1.45		2.48		0.00	1.80		0.93	0.48				--	0
25S/26E-03R01M		15	5050	78		1100	96	--	119	--	0	264	--	69	137.0	--	0.00	--	--	321
08/26/69	945		5050	8.0			4.79		5.18		0.00	4.33		1.94	2.21				--	104
25S/26E-09C01M		15	5050	76		511	33	8	55	3	0	126	39	32	70.0	--	0.00	--	345	117
08/26/69	1000		5050	7.6			1.65	0.66	2.39	0.08	0.00	2.06	0.81	0.90	1.13				302	14
SAR =	2.23						34	14	50	2	0	42	16	18	23					
25S/26E-15R01M		15	5050	73		714	64	14	56	5	0	159	68	57	89.0	--	0.00	--	488	219
08/27/69	1000		5050	7.8			3.19	1.15	2.44	0.13	0.00	2.61	1.41	1.61	1.43				432	89
SAR =	1.65						46	17	35	2	0	37	20	23	20					
25S/26E-28M01M		15	5050	--		942	95	17	85	5	0	164	256	54	40.0	--	0.00	--	711	306
08/27/69	1025		5050	7.6			4.74	1.40	3.70	0.13	0.00	2.69	5.33	1.52	0.64				633	171
SAR =	2.11						48	14	37	1	0	26	52	15	6					
25S/27E-04P01M		15	5050	83		481	17	--	86	--	0	122	--	58	3.8	--	0.20	--	--	47
08/27/69	--		5050	8.0			0.85		3.74		0.00	2.00		1.63	0.06				--	0
25S/27E-07J01M		15	5050	84		471	--	--	--	--	--	--	--	--	--	0.6	0.62	--	--	--
07/21/69	1430		5050	--															--	--
		15	5050	80		462	8	--	102	--	0	223	--	19	3.1	--	0.40	--	--	29
08/27/69	--		5050	8.3			0.40		4.44		0.00	3.65		0.53	0.05				--	0
25S/27E-08M01M		15	5050	84		686	--	--	--	--	--	--	--	--	--	0.2	0.02	--	--	--
07/21/69	1400		5050	--															--	--
25S/27E-08M02M		15	5050	91		666	48	--	89	--	0	158	--	29	1.8	--	0.50	--	--	145
08/26/69	--		5050	8.1			2.39		3.87		0.00	2.59		0.82	0.03				--	15
25S/27E-11Q01M		15	5050	78		465	33	--	63	--	0	128	--	27	0.6	--	0.40	--	--	98
08/26/69	--		5050	8.0			1.65		2.74		0.00	2.10		0.76	0.01				--	0
25S/27E-15P01M		15	5050	86		498	31	--	71	--	0	125	--	48	3.4	--	0.40	--	--	98
08/26/69	--		5050	8.1			1.55		3.09		0.00	2.05		1.35	0.05				--	0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

WELL NO. DATE TIME	COUNTY	LAB SAMPLE	PH	EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUES CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
/27E-18A01	15	5050	98	1460	14	--	304	--	0	244	--	329	0.1	--	0.40	--	--	47
/26/69 --		5050	8.1		0.70		13.40		0.00	4.00		9.28	0.00				--	0
/27E-19K01	15	5050	--	536	--	--	--	--	--	--	--	--	--	0.7	0.01	--	--	--
/21/69 1545		5050	--														--	--
	15	5050	79	548	26	--	84	--	0	94	--	43	9.0	--	0.20	--	--	87
/26/69 --		5050	8.0		1.30		3.65		0.00	1.54		1.21	0.14				--	10
/27E-23G01	15	5050	--	--	--	--	--	--	--	--	--	33	--	0.1	0.0	--	379	--
/31/69 --		5050	--									0.93					--	--
	15	5050	85	502	45	--	60	--	0	174	--	22	0.6	--	0.10	--	--	127
/26/69 --		5050	8.1		2.24		2.61		0.00	2.85		0.62	0.01				--	0
/27E-23G01	15	5050	85	748	68	--	68	--	0	136	--	56	6.3	--	0.10	--	--	225
/26/69 --		5050	8.1		3.39		2.96		0.00	2.23		1.58	0.10				--	113
/21E-17D01	15	5050	76	16600	1080	618	2240	19	0	147	2720	4930	142.0	--	8.70	--	12100	5190
/14/69 1245		5050	7.4		53.89	50.82	97.44	0.49	0.00	2.41	56.63	139.03	2.29				11830	5069
AR = 13.47					27	25	48	0	0	1	28	69	1					
/26E-09N01	15	5050	84	2440	308	--	256	--	0	108	--	126	163.0	--	--	--	--	895
/26/69 1340		5050	7.8		15.37		11.14		0.00	1.77		3.55	2.63				--	806
/26E-09R01	15	5050	82	1060	39	--	190	--	0	20	--	102	96.0	--	--	--	--	101
/26/69 1320		5050	7.3		1.95		8.26		0.00	0.33		2.88	1.55				--	85
/26E-20J01	15	5050	--	1190	152	--	86	--	0	64	--	161	130.0	--	--	--	--	402
/26/69 1400		5050	7.8		7.58		3.74		0.00	1.05		4.54	2.10				--	349
/21E-11C01	15	5050	76	5020	256	43	824	6	0	117	1380	767	2.3	--	5.50	--	3400	816
/13/69 1045		5050	7.6		12.77	3.54	35.84	0.15	0.00	1.92	28.73	21.63	0.04				3342	720
AR = 12.55					24	7	68	0	0	4	55	41	0					
/22E-31N01	15	5050	79	5601	148	6	1130	6	0	59	1530	870	0.0	--	8.70	--	3690	395
/30/69 1400		5050	7.5		7.38	0.49	49.15	0.15	0.00	0.97	31.85	24.53	0.00				3728	347
AR = 24.77					13	1	86	0	0	2	55	43	0					
/22E-31N02	15	5050	76	3310	115	77	516	5	0	134	1060	394	0.0	--	5.90	--	2230	604
/30/69 1115		5050	7.7		5.74	6.33	22.45	0.13	0.00	2.20	22.07	11.11	0.00				2239	494
AR = 9.14					17	18	65	0	0	6	62	31	0					
/26E-07A02	15	5050	--	399	37	--	31	--	0	104	--	58	--	--	--	--	--	121
/26/69 --		5050	7.9		1.85		1.35		0.00	1.70		1.63					--	36
/26E-07A03	15	5050	--	438	51	--	20	--	0	123	--	49	--	--	--	--	--	168
/26/69 --		5050	8.0		2.54		0.87		0.00	2.01		1.38					--	67
/26E-09G01	15	5050	--	230	8	--	39	--	0	97	--	12	--	--	--	--	--	28
/29/69 --		5050	8.3		0.40		1.70		0.00	1.59		0.34					--	0
/26E-11G01	15	5050	--	269	27	--	29	--	0	114	--	10	--	--	--	--	--	71
/29/69 --		5050	8.2		1.35		1.26		0.00	1.87		0.28					--	0
/26E-21A01	15	5050	--	316	25	--	32	--	0	93	--	33	--	--	--	--	--	78
/26/69 --		5050	8.2		1.25		1.39		0.00	1.52		0.93					--	2
/26E-22H01	15	5703	--	870	100	10	74	3	0	118	19	239	--	0.1	0.15	10	517	291
/14/69 --		5803	7.4		4.99	0.82	3.22	0.08	0.00	1.93	0.39	6.74					514	194
AR = 1.89					55	9	35	1	0	21	4	74						
/26E-22D01	15	5703	--	323	13	3	45	1	9	54	13	49	--	0.1	0.10	10	173	45
/12/69 --		5803	8.6		0.65	0.25	1.96	0.02	0.30	0.88	0.27	1.38					170	0
AR = 2.92					22	9	68	1	11	31	9	49						
/26E-25J01	15	5703	--	476	2	2	106	0	10	42	75	79	-	0.3	0.20	10	308	13
/14/69 --		5803	8.8		0.10	0.16	4.61	0.00	0.33	0.69	1.56	2.23					306	0
AR = 12.68					2	3	95	0	7	14	32	46						
/26E-26H01	15	5050	--	844	48	--	108	--	0	113	--	174	--	--	--	--	--	154
/26/69 --		5050	7.9		2.39		4.70		0.00	1.85		4.91					--	61
/26E-27A01	15	5703	--	800	66	10	94	2	0	120	15	212	--	0.3	0.13	10	473	206
/12/69 --		5803	7.7		3.29	0.82	4.09	0.05	0.00	1.97	0.31	5.98					469	107
AR = 2.85					40	10	49	1	0	24	4	72						
/26E-27B01	15	5703	--	2439	280	51	71	5	0	194	133	546	--	0.1	0.13	10	1197	909
/12/69 --		5803	7.7		13.97	4.19	3.09	0.13	0.00	3.18	2.77	15.40					1192	750
AR = 1.02					65	20	14	1	0	15	13	72						
/26E-29A01	15	5050	--	659	79	16	29	3	0	106	91	61	72.0	--	0.00	--	449	262
/26/69 --		5050	8.1		3.94	1.31	1.26	0.08	0.00	1.74	1.89	1.72	1.16				404	175
AR = 0.78					60	20	19	1	0	27	29	26	18					
/26E-29C02	15	5050	--	305	32	--	19	--	0	103	--	15	--	--	--	--	--	107
/26/69 --		5050	8.1		1.60		0.83		0.00	1.69		0.42					--	22
/26E-30J01	15	5050	--	851	107	--	34	--	0	102	--	76	--	--	--	--	--	354
/26/69 --		5050	8.0		5.34		1.49		0.00	1.67		2.14					--	270
/26E-32A01	15	5050	--	315	34	--	25	--	0	91	--	17	--	--	--	--	--	95
/26/69 --		5050	8.2		1.70		1.09		0.00	1.49		0.48					--	20
/26E-32E01	15	5050	--	861	108	--	39	--	0	102	--	74	--	--	--	--	--	354
/26/69 --		5050	8.3		5.39		1.70		0.00	1.67		2.09					--	270

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY LAB. / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C)	SUM
						MILLIGRAMS PER LITER								MILLIGRAMS PER LITER					
						MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER									
										PERCENT REACTANCE VALUES									
27S/26E-32G01M	15	5050	--		1080	138	27	47	4	0	99	198	108	137.0	--	0.00	--	777	4
08/26/69 --		5050	8.0			6.89	2.22	2.04	0.10	0.00	1.62	4.12	3.04	2.21				708	3
SAR = 0.96						61	20	18	1	0	15	37	26	20					
27S/26E-33A01M	15	5050	--		2110	294	--	78	--	0	107	--	284	--	--	0.00	--	--	101
08/26/69 --		5050	8.0			14.67		3.39		0.00	1.75		8.01					--	92
27S/26E-33C01M	15	5050	--		392	40	--	29	--	0	90	--	30	--	--	--	--	--	12
08/26/69 --		5050	8.1			1.99		1.26		0.00	1.47		0.85					--	4
27S/27E-28F01M	15	5050	--		688	126	5	42	4	0	168	48	174	1.8	--	0.00	--	586	33
08/26/69 --		5050	8.1			6.29	0.41	1.83	0.10	0.00	2.75	1.00	4.91	0.03				484	19
SAR = 1.00						73	5	21	1	0	32	11	56	0					
27S/27E-33E01M	15	5050	--		582	53	--	59	--	0	90	--	63	--	--	--	--	--	14
08/26/69 --		5050	8.1			2.64		2.57		0.00	1.47		1.78					--	7
28S/22E-09R01M	15	5050	82		825	25	4	132	2	0	42	28	210	0.9	--	0.20	--	496	7
09/30/69 --		5050	7.4			1.25	0.33	5.74	0.05	0.00	0.69	0.58	5.92	0.01				423	4
SAR = 6.47						17	4	78	1	0	9	8	82	0					
28S/22E-33N01M	15	5050	73		3160	198	59	435	4	0	93	1000	411	0.7	--	6.30	--	2240	73
03/13/69 1515		5050	7.4			9.88	4.85	18.92	0.10	0.00	1.52	20.82	11.59	0.01				2160	66
SAR = 6.97						29	14	56	0	0	4	61	34	0					
28S/25E-17L01M	15	5050	75		373	25	0	48	1	0	73	37	38	23.0	--	0.00	--	226	6
09/30/69 1235		5050	7.9			1.25	0.00	2.09	0.02	0.00	1.20	0.77	1.07	0.37				208	
SAR = 2.64						37	0	62	1	0	35	23	31	11					
28S/26E-03J01M	15	5050	--		1160	133	--	92	--	0	47	--	190	--	--	--	--	--	35
08/26/69 --		5050	7.7			6.64		4.00		0.00	0.77		5.36					--	31
28S/26E-04C01M	15	5050	--		900	124	10	45	4	0	85	171	115	56.0	--	0.00	--	616	34
08/26/69 --		5050	7.9			6.19	0.82	1.96	0.10	0.00	1.39	3.56	3.24	0.90				567	27
SAR = 1.04						68	9	22	1	0	15	39	36	10					
28S/26E-10N01M	15	5050	--		2020	173	--	260	--	0	119	--	302	--	--	0.10	--	--	46
08/26/69 --		5050	7.4			8.63		11.31		0.00	1.95		8.52					--	37
28S/26E-11A01M	15	5050	--		629	37	--	82	--	0	35	--	104	--	--	--	--	--	9
08/26/69 --		5050	8.0			1.85		3.57		0.00	0.57		2.93					--	6
28S/26E-11J01M	15	5050	--		2300	271	--	222	--	0	47	--	357	--	--	--	--	--	70
08/26/69 --		5050	7.8			13.52		9.66		0.00	0.77		10.07					--	66
28S/26E-13J01M	15	5050	--		433	12	--	74	--	0	45	--	63	--	--	--	--	--	3
08/26/69 --		5050	6.7			0.60		3.22		0.00	0.74		1.78					--	1
28S/26E-15F01M	15	5050	--		3080	271	--	400	--	0	51	--	473	--	--	--	--	--	76
08/26/69 --		5050	7.8			13.52		17.40		0.00	0.83		13.34					--	721
28S/26E-16A01M	15	5050	--		2730	232	--	394	--	0	21	--	437	--	--	--	--	--	601
08/26/69 --		5050	7.4			11.58		17.14		0.00	0.34		12.32					--	584
28S/26E-22A01M	15	5050	--		4480	424	--	620	--	0	164	--	630	--	--	0.90	--	--	1180
08/26/69 --		5050	7.9			21.16		26.97		0.00	2.69		17.77					--	1045
28S/26E-23J01M	15	5050	--		1860	168	1	244	4	0	35	552	247	21.0	--	0.10	--	1270	423
08/26/69 --		5050	7.5			8.38	0.08	10.61	0.10	0.00	0.57	11.49	6.96	0.34				1255	394
SAR = 5.16						44	0	55	0	0	3	59	36	2					
28S/26E-30A01M	15	5050	75		1230	178	--	87	--	0	86	--	124	16.0	--	0.20	--	--	480
09/30/69 1150		5050	7.9			8.88		3.78		0.00	1.41		3.50	0.26				--	409
28S/26E-32P01M	15	5050	74		2350	337	19	203	3	0	149	876	197	58.0	--	0.80	--	1900	922
09/30/69 1130		5050	7.6			16.82	1.56	8.83	0.08	0.00	2.44	18.24	5.55	0.93				1768	800
SAR = 2.91						62	6	32	0	0	9	67	20	3					
28S/27E-07C01M	15	5050	--		292	0	--	59	--	0	80	--	41	--	--	--	--	--	6
08/26/69 --		5050	8.3			0.00		2.57		0.00	1.31		1.16					--	0
28S/27E-19C01M	15	5050	--		587	28	--	82	--	0	24	--	148	--	--	--	--	--	71
08/26/69 --		5050	7.1			1.40		3.57		0.00	0.39		4.17					--	51
28S/27E-19L01M	15	5050	--		506	10	--	90	--	0	55	--	97	--	--	0.10	--	--	32
08/26/69 --		5050	7.8			0.50		3.91		0.00	0.90		2.73					--	0
28S/27E-30A02M	15	5050	--		946	42	--	147	--	0	62	--	147	--	--	--	--	--	111
08/26/69 --		5050	7.5			2.09		6.39		0.00	1.02		4.14					--	60
29S/23E-13L01M	15	5050	75		275	7	--	49	--	5	30	--	32	0.2	--	0.10	--	--	17
09/30/69 1335		5050	8.8			0.35		2.13		0.17	0.49		0.90	0.00				--	0
29S/23E-16N02M	15	5050	87		338	4	--	64	--	5	25	--	77	0.1	--	0.10	--	--	12
09/30/69 1355		5050	8.8			0.20		2.78		0.17	0.41		2.17	0.00				--	0
29S/23E-18N01M	15	5050	72		5380	310	10	822	4	0	38	560	1400	0.0	--	7.70	--	3300	816
03/13/69 1145		5050	7.3			15.47	0.82	35.76	0.10	0.00	0.62	11.66	39.48	0.00				3133	785
SAR = 12.53						30	2	69	0	0	1	22	76	0					
29S/23E-35K01M	15	5050	76		2790	145	6	410	2	0	11	51	862	0.0	--	0.40	--	1730	387
05/01/69 1215		5050	7.3			7.23	0.49	17.83	0.05	0.00	0.18	1.06	24.31	0.00				1482	378
SAR = 9.07						28	2	70	0	0	1	4	95	0					
29S/23E-35K02M	15	5050	72		1480	84	7	227	2	0	174	340	175	0.0	--	0.60	--	926	237
05/01/69 1030		5050	7.7			4.19	0.57	9.87	0.05	0.00	2.85	7.08	4.93	0.00				922	94
SAR = 6.39						28	4	67	0	0	19	48	33	0					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE WELL NO. DATE TIME	COUNTY LAB SAMPLER	TEMP PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER			TDS 180C (*105C) SUM	TH NCH
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
5/24E-24F01M	15 5050	80	503	31	0	74	0	0	62	110	32	28.0	--	0.10	--	323	78
9/26/69 1155	5050	7.9		1.55	0.00	3.22	0.00	0.00	1.02	2.29	0.90	0.45				306	27
AR = 3.66				32	0	67	0	0	22	49	19	10					
5/25E-05G01M	15 5050	--	540	49	1	61	1	0	122	72	53	12.0	--	0.40	--	310	127
9/30/69 1300	5050	7.9		2.44	0.08	2.65	0.02	0.00	2.00	1.50	1.49	0.19				310	27
AR = 2.36				47	2	51	0	0	38	29	29	4					
5/25E-29F01M	15 5050	74	219	16	--	29	--	0	77	--	11	3.4	--	0.20	--	--	42
9/26/69 1210	5050	8.2		0.80		1.26		0.00	1.26		0.31	0.05				--	0
5/26E-09P01M	15 5050	73	634	64	--	59	--	0	85	--	61	14.0	--	0.20	--	--	184
9/30/69 1110	5050	8.0		3.19		2.57		0.00	1.39		1.72	0.22				--	114
5/27E-08A01M	15 5050	--	1790	--	--	--	--	--	--	--	140	--	--	--	--	--	--
10/29/68 --	5050	--									3.95					--	--
5/27E-08F02M	15 5050	--	1710	--	--	270	--	0	416	--	100	87.0	--	--	--	--	352
10/29/68 --	5050	7.6				11.74		0.00	6.82		2.82	1.40				--	11
5/27E-09K02M	15 5050	--	1170	--	--	--	--	--	--	--	35	--	--	--	--	--	--
10/28/68 --	5050	--									0.99					--	--
5/27E-10C01M	15 5050	--	663	--	--	--	--	--	--	--	70	--	--	--	--	--	--
10/29/68 --	5050	--									1.97					--	--
5/27E-10P02M	15 5050	--	1020	--	--	--	--	--	--	--	106	--	--	--	--	--	--
10/29/68 --	5050	--									2.99					--	--
5/27E-10P01M	15 5050	--	646	--	--	42	--	0	176	--	56	11.0	--	--	--	--	229
10/29/68 --	5050	7.6				1.83		0.00	2.88		1.58	0.18				--	85
5/27E-10R05M	15 5050	--	932	--	--	--	--	--	--	--	36	--	--	--	--	--	--
10/29/68 --	5050	--									1.01					--	--
5/27E-14G01M	15 5050	--	478	--	--	50	--	0	178	--	16	2.1	--	--	--	--	128
10/29/68 --	5050	7.6				2.17		0.00	2.92		0.45	0.03				--	0
5/27E-15D01M	15 5050	--	1310	--	--	--	--	--	--	--	124	--	--	--	--	--	--
10/29/68 --	5050	--									3.50					--	--
5/27E-15H01M	15 5050	--	1020	--	--	--	--	--	--	--	64	--	--	--	--	--	--
10/29/68 --	5050	--									1.80					--	--
5/27E-15N01M	15 5050	--	1800	--	--	200	--	0	314	--	172	57.0	--	--	--	--	510
10/30/68 --	5050	7.7				8.70		0.00	5.15		4.85	0.92				--	252
5/27E-16A01M	15 5050	--	1090	--	--	--	--	--	--	--	47	--	--	--	--	--	--
10/29/68 --	5050	--									1.32					--	--
5/27E-16M01M	15 5050	--	572	--	--	--	--	--	--	--	34	--	--	--	--	--	--
10/29/68 --	5050	--									0.96					--	--
5/27E-17N01M	15 5050	--	1680	--	--	--	--	--	--	--	78	--	--	--	--	--	--
10/29/68 --	5050	--									2.20					--	--
5/27E-21J03M	15 5050	--	210	--	--	21	--	0	100	--	7	1.0	--	--	--	--	60
10/28/68 --	5050	7.5				0.91		0.00	1.64		0.20	0.02				--	0
5/27E-21J05M	15 5050	--	462	--	--	--	--	--	--	--	45	--	--	--	--	--	--
10/29/68 --	5050	--									1.27					--	--
5/27E-21K01M	15 5050	--	632	--	--	71	--	0	269	--	46	12.0	--	--	--	--	165
10/29/68 --	5050	7.6				3.09		0.00	4.41		1.30	0.19				--	0
5/27E-21P01M	15 5050	--	348	--	--	--	--	--	--	--	19	--	--	--	--	--	--
10/28/68 --	5050	--									0.53					--	--
5/27E-22M02M	15 5050	--	440	--	--	28	--	0	219	--	22	1.3	--	--	--	--	167
10/28/68 --	5050	8.2				1.22		0.00	3.59		0.62	0.02				--	0
5/27E-23A02M	15 5050	--	124	--	--	--	--	--	--	--	5	--	--	--	--	--	--
10/28/68 --	5050	--									0.14					--	--
5/27E-23K02M	15 5050	--	379	--	--	--	--	--	--	--	20	--	--	--	--	--	--
10/28/68 --	5050	--									0.56					--	--
5/27E-23M02M	15 5050	--	760	--	--	--	--	--	--	--	65	--	--	--	--	--	--
10/28/68 --	5050	--									1.83					--	--
5/28E-20A01M	15 5050	73	253	27	--	19	--	0	97	--	20	0.1	--	0.20	--	--	83
09/24/69 1115	5050	8.1		1.35		0.83		0.00	1.59		0.56	0.00				--	3
5/29E-15L01M	15 5050	78	784	28	1	134	3	0	171	127	71	1.0	--	0.10	--	481	74
09/24/69 1000	5050	8.0		1.40	0.08	5.83	0.08	0.00	2.80	2.64	2.00	0.02				450	0
SAR = 6.78				19	1	79	1	0	37	35	27	0					
30S/23E-01C03M	15 5050	78	597	9	--	102	--	1	30	--	155	0.1	--	0.60	--	--	26
09/26/69 1055	5050	8.4		0.45		4.44		0.03	0.49		4.37	0.00				--	0
30S/24E-03E01M	15 5050	72	229	7	--	42	--	0	54	--	15	0.1	--	0.20	--	--	19
09/26/69 1035	5050	8.2		0.35		1.83		0.00	0.88		0.42	0.00				--	0
30S/24E-11J01M	15 5050	73	257	11	--	44	--	0	57	--	21	0.8	--	0.10	--	--	29
09/26/69 955	5050	7.8		0.55		1.91		0.00	0.93		0.59	0.01				--	0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY	LAB SAMPLER	TEMP PH	FC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS INDC (*105C) SUM	NC
305/24E-23D01M		15	5050	70	1910	82	10	313	3	0	267	322	258	0.2	--	1.00	--	1170	24
03/12/69	1515		5050	7.9		4.09	0.82	13.61	0.08	0.00	4.38	6.70	7.27	0.00				1121	3
SAR = 8.69						22	4	73	0	0	24	36	40	0					
305/25E-14C02M		15	5050	81	815	83	3	72	1	0	109	6	209	0.2	--	0.60	--	636	23
09/26/69	1245		5050	7.8		4.14	0.25	3.13	0.02	0.00	1.79	0.12	5.89	0.00				429	14
SAR = 2.11						55	3	41	0	0	23	2	75	0					
305/25E-30A01M		15	5050	72	8030	1040	47	554	2	0	58	222	2610	0.7	--	0.50	--	4840	279
03/12/69	1245		5050	7.2		51.89	3.86	24.10	0.05	0.00	0.95	4.62	73.60	0.01				4505	274
SAR = 4.56						65	5	30	0	0	1	6	93	0					
305/27E-03J02M		15	5050	--	249	--	--	19	--	0	108	--	12	1.8	--	--	--	--	8
10/30/68	--		5050	7.4				0.83		0.00	1.77		0.34	0.03				--	
305/27E-13N03M		15	5050	67	228	24	2	21	1	0	108	12	8	0.0	--	0.10	--	125	7
09/30/69	1035		5050	8.2		1.20	0.16	0.91	0.02	0.00	1.77	0.25	0.22	0.00				122	
SAR = 1.11						52	7	40	1	0	79	11	10	0					
305/28E-03G01M		15	5050	74	2020	155	--	182	--	0	238	--	327	88.0	--	0.40	--	--	63
06/18/69	900		5050	7.6		7.73		7.92		0.00	3.90		9.22	1.42				--	43
305/28E-12J02M		15	5050	75	950	95	27	57	5	0	188	110	147	8.2	--	0.20	--	591	34
06/18/69	1020		5050	8.1		4.74	2.22	2.48	0.13	0.00	3.08	2.29	4.14	0.13				542	19
SAR = 1.33						49	23	26	1	0	32	24	43	1					
305/28E-23J01M		15	5050	75	404	29	--	49	--	0	179	--	17	1.5	--	0.10	--	--	10
06/18/69	930		5050	8.3		1.45		2.13		0.00	2.93		0.48	0.02				--	
305/28E-25R02M		15	5050	72	779	77	--	56	--	0	227	--	94	2.7	--	0.10	--	--	26
06/18/69	955		5050	7.5		3.84		2.44		0.00	3.72		2.65	0.04				--	8.
305/29E-05D01M		15	5050	--	1630	175	--	115	--	0	179	--	177	2.4	--	0.10	--	--	58
06/19/69	1010		5050	7.4		8.73		5.00		0.00	2.93		4.99	0.04				--	44
305/29E-07R01M		15	5050	75	1040	121	--	57	--	0	219	--	120	22.0	--	0.00	--	--	40
06/18/69	1045		5050	8.0		6.04		2.48		0.00	3.59		3.38	0.35				--	22
305/29E-20L01M		15	5050	74	644	64	--	45	--	0	220	--	54	20.0	--	0.10	--	--	23
06/18/69	1008		5050	8.3		3.19		1.96		0.00	3.60		1.52	0.32				--	51
305/29E-22A01M		15	5050	--	948	50	--	120	--	0	370	--	76	0.1	--	2.20	--	--	234
06/19/69	1035		5050	7.4		2.49		5.22		0.00	6.06		2.14	0.00				--	0
305/29E-24N01M		15	5050	72	835	77	--	56	--	0	181	--	68	0.1	--	0.60	--	--	303
06/19/69	1100		5050	7.6		3.84		2.44		0.00	2.97		1.92	0.00				--	154
305/29E-27J01M		15	5050	--	850	84	--	52	--	0	256	--	48	95.0	--	0.10	--	--	329
06/19/69	1110		5050	7.8		4.19		2.26		0.00	4.19		1.35	1.53				--	119
305/29E-32E01M		15	5050	--	616	70	--	46	--	0	284	--	34	3.6	--	0.20	--	--	229
06/19/69	1145		5050	8.0		3.49		2.00		0.00	4.65		0.96	0.06				--	0
305/29E-35F01M		15	5050	69	883	81	34	49	5	0	198	104	94	56.0	--	0.20	--	564	343
06/19/69	1122		5050	8.1		4.04	2.80	2.13	0.13	0.00	3.24	2.16	2.65	0.90				521	181
SAR = 1.15						44	31	23	1	0	36	24	30	10					
305/29E-36B01M		15	5806	--	1200	104	48	20	--	0	272	144	92	86.4	--	0.33	--	544	460
11/21/68	--		5121	7.8		5.19	3.95	0.87		0.00	4.46	3.00	2.59	1.39				629	237
SAR = 0.41						52	39	9		0	39	26	23	12					
305/29E-36E01M		15	5806	--	600	37	13	61	--	0	241	26	37	13.4	--	1.32	--	294	145
11/29/68	--		5121	7.8		1.85	1.07	2.65		0.00	3.95	0.54	1.04	0.22				308	0
SAR = 2.20						33	19	48		0	69	9	18	4					
305/29E-36J01M		15	5806	--	930	72	30	39	--	0	262	99	51	63.6	--	0.73	--	422	305
11/29/68	--		5121	7.6		3.59	2.47	1.70		0.00	4.29	2.06	1.44	1.02				485	90
SAR = 0.97						46	32	22		0	49	23	16	12					
305/29E-36J02M		15	5806	--	600	30	9	68	--	0	221	22	41	6.0	--	2.28	--	281	113
11/21/68	--		5121	7.9		1.50	0.74	2.96		0.00	3.62	0.46	1.16	0.10				287	0
SAR = 2.80						29	14	57		0	48	9	22	2					
305/29E-36K01M		15	5806	--	830	71	24	46	--	0	253	79	60	48.3	--	0.20	--	406	274
11/21/68	--		5121	7.8		3.54	1.97	2.00		0.00	4.15	1.64	1.69	0.78				453	66
SAR = 1.20						47	26	27		0	50	20	20	9					
305/29E-36L01M		15	5806	--	750	62	19	43	--	0	258	63	36	33.7	--	0.25	--	352	233
11/29/68	--		5121	7.8		3.09	1.56	1.87		0.00	4.23	1.31	1.01	0.54				384	21
SAR = 1.22						47	24	29		0	60	18	14	8					
305/30E-31D01M		15	5806	--	700	59	19	53	--	0	305	38	37	7.0	--	0.25	--	358	226
11/29/68	--		5121	7.6		2.94	1.56	2.30		0.00	5.00	0.79	1.04	0.11				364	0
SAR = 1.53						43	23	34		0	72	11	15	2					
305/30E-31M01M		15	5806	--	800	82	20	31	--	0	230	91	50	22.4	--	0.25	--	388	287
11/21/68	--		5121	7.7		4.09	1.64	1.35		0.00	3.77	1.89	1.41	0.36				410	98
SAR = 0.80						58	23	19		0	51	25	19	5					
315/24E-13J03M		15	5050	74	7490	496	--	1360	--	0	147	--	617	--	--	--	--	--	1480
10/24/68	1115		5050	8.2		24.75		59.16		0.00	2.41		17.40					--	1359
315/24E-13J04M		15	5050	74	3040	556	--	289	--	0	100	--	198	--	--	--	--	--	1400
10/24/68	1115		5050	8.1		27.74		12.57		0.00	1.64		5.58					--	1318
315/24E-13J05M		15	5050	74	1060	17	--	202	--	7	169	--	56	--	--	--	--	--	77
10/24/68	1115		5050	8.5		0.85		8.79		0.23	2.77		1.58					--	0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLER	TEMP PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				TDS 180C (°105C)	TH NCH
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	SUM	
31S/24E-13P04M		15	S050	74	13200	523	--	2660	--	0	142	--	2260	--	--	--	--	--	2060
10/24/68	1020		S050	8.3		26.10		115.71		0.00	2.33		63.73					--	1943
31S/24E-24P02M		15	S050	72	10900	302	--	2040	--	0	314	--	1500	--	--	--	--	--	2280
10/24/68	940		S050	8.2		15.07		88.74		0.00	8.42		42.30					--	1858
31S/24E-25E03M		15	S050	75	66800	576	--	16900	--	0	1100	--	20200	--	--	--	--	-	14800
10/23/68	1530		S050	7.8		28.74		822.15		0.00	18.03		569.64					--	13898
31S/24E-25E04M		15	S050	74	35800	1370	--	5840	--	0	556	--	12000	--	--	--	--	--	7620
10/23/68	1530		S050	7.9		68.36		254.04		0.00	9.11		338.40					--	7164
31S/24E-26L03M		15	S050	76	6140	478	--	831	--	0	112	--	723	--	--	--	--	--	1870
10/23/68	1040		S050	8.1		23.85		36.15		0.00	1.83		20.39					--	1778
31S/24E-36006M		15	S050	74	17800	503	--	2980	--	0	665	--	4700	--	--	--	--	--	4210
10/23/68	1400		S050	8.0		25.10		129.63		0.00	10.90		132.54					--	3665
31S/24E-36007M		15	S050	74	16700	439	--	2760	--	0	948	--	3580	--	--	--	--	--	4070
10/23/68	1440		S050	7.7		21.91		120.06		0.00	15.54		100.96					--	3292
31S/24E-36008M		15	S050	73	29900	778	--	5710	--	0	1250	--	9660	--	--	--	--	--	6400
10/23/68	1400		S050	7.7		38.82		248.38		0.00	20.49		272.41					--	5375
31S/24E-36M04M		15	S050	72	8540	659	--	1110	--	0	115	--	1930	--	--	--	--	--	2470
10/23/68	1305		S050	7.7		32.88		48.28		0.00	1.88		54.42					--	2376
31S/25E-13A01M		15	S050	78	327	2	--	71	--	9	98	--	18	0.1	--	0.30	--	--	7
09/26/69	820		S050	6.9		0.10		3.09		0.30	1.61		0.51	0.00				--	0
31S.26E-02J01M		15	S050	73	236	5	--	50	--	6	82	--	14	0.4	--	0.20	--	--	13
09/25/69	1700		S050	8.7		0.25		2.17		0.20	1.34		0 39	0.01				--	0
31S/27E-14F01M		15	S050	68	437	50	--	37	--	0	183	--	23	1.9	--	0.20	--	--	148
09/25/69	1720		S050	8.3		2.49		1.61		0.00	3.00		0.65	0.03				--	0
31S/27E-31J01M		15	S050	73	702	44	6	100	1	0	160	166	36	0.2	--	0.20	--	472	137
09/25/69	1620		S050	8.2		2.19	0.49	4.35	0.02	0.00	2.62	3.46	1.01	0.00				433	6
SAR =	3.75					31	7	62	0	0	37	49	14	0					
31S/28E-07R03M		15	S050	68	467	45	--	46	--	0	181	--	26	1.3	--	0.20	--	--	140
09/25/69	735		S050	8.2		2.24		2.00		0.00	2.97		0.73	0.02				--	6
31S/28E-26A01M		15	S050	75	280	9	--	51	--	0	97	--	16	0.6	--	0.20	--	--	25
09/25/69	710		S050	8.1		0.45		2.22		0.00	1.59		0.45	0.01				--	0
31S/29E-01A01M		15	S806	--	560	17	6	73	--	0	171	11	53	8.0	--	4.02	--	245	67
11/21/68	--		S121	7.6		0.85	0.49	3.17		0.00	2.80	0.23	1.49	0.13				257	0
SAR =	3.88					19	11	70		0	60	5	32	3					
31S/29E-01A02M		15	S806	--	630	32	10	69	--	0	199	38	50	15.3	--	1.67	--	299	123
11/29/68	--		S121	7.8		1.60	0.82	3.00		0.00	3.26	0.79	1.41	0.25				314#	0
SAR =	2.73					29	15	55		0	57	14	25	4					
31S/29E-01C01M		15	S806	--	770	58	23	47	--	0	264	75	34	32.3	--	0.20	--	368	239
11/29/68	--		S121	7.7		2.89	1.89	2.04		0.00	4.33	1.56	0.96	0.52				400#	22
SAR =	1.32					42	28	30		0	59	21	13	7					
31S/29E-01D01M		15	S806	--	740	63	23	40	--	0	273	70	32	24.4	--	0.44	--	365	253
11/21/68	--		S121	7.7		3.14	1.89	1.74		0.00	4.47	1.46	0.90	0.39				388#	29
SAR =	1.10					46	28	26		0	62	20	12	5					
31S/29E-01K02M		15	S806	--	810	65	23	45	--	0	259	74	46	33.9	--	0.21	--	382	257
11/29/68	--		S121	7.7		3.24	1.89	1.96		0.00	4.24	1.54	1.30	0.55				415	45
SAR =	1.22					46	27	28		0	56	20	17	7					
31S/29E-01M01M		15	S806	--	570	38	11	56	--	0	229	36	27	6.6	--	0.78	--	282	142
11/21/68	--		S121	7.9		1.90	0.90	2.44		0.00	3.75	0.75	0.76	0.11				288	0
SAR =	2.06					36	17	46		0	70	14	14	2					
31S/29E-02A01M		15	S806	--	730	62	17	48	--	0	261	62	34	24.8	--	0.21	--	--	298
11/19/68	--		S121	7.7		3.09	1.40	2.09		0.00	4.28	1.29	0.96	0.40				377	84
SAR =	1.39					47	21	32		0	62	19	14	6					
31S/29E-02C02M		15	S806	--	460	21	5	61	--	5	173	23	23	2.0	--	0.57	--	244	73
11/19/68	--		S121	8.4		1.05	0.41	2.65		0.17	2.83	0.48	0.65	0.03				226	0
SAR =	3.11					25	10	64		4	68	11	16	1					
31S/29E-02K01M		15	S806	--	710	57	16	52	--	0	256	61	33	11.7	--	0.37	--	347	207
11/19/68	--		S121	7.8		2.84	1.31	2.26		0.00	4.19	1.27	0.93	0.19				357	0
SAR =	1.57					44	20	35		0	64	19	14	3					
		15	S050	70	677	50	--	55	--	0	408	--	36	38.0	--	0.20	--	--	188
06/19/69	1305		S050	8.1		2.49		2.39		0.00	6.69		1.01	0.61				--	0
31S/29E-02M01M		15	S806	--	1030	93	22	40	--	0	295	78	55	69.8	--	0.20	--	435	323
11/19/68	--		S121	7.7		4.64	1.81	1.74		0.00	4.83	1.62	1.55	1.12				503	81
SAR =	0.97					57	22	21		0	53	18	17	12					
31S/29E-03A02M		15	S806	--	710	61	17	44	--	0	279	50	26	9.3	--	0.25	--	339	222
11/19/68	--		S121	7.7		3.04	1.40	1.91		0.00	4.57	1.04	0.73	0.15				345	0
SAR =	1.28					48	22	30		0	70	16	11	2					
31S/29E-03C01M		15	S806	--	740	62	19	44	--	0	279	54	31	18.6	--	0.17	--	350	232
11/19/68	--		S121	7.7		3.09	1.56	1.91		0.00	4.57	1.12	0.87	0.30				366	3
SAR =	1.25					47	24	29		0	66	16	13	4					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUES													
31S/29E-04J01M		15	5806	--		970	80	21	53	--	0	270	116	41	43.4	--	0.35	--	445	285
11/19/68	--		5121	7.7			3.99	1.73	2.30		0.00	4.42	2.41	1.16	0.70				488	64
SAR = 1.36							50	21	29		0	51	28	13	8					
15/29E-04P01M		15	5050	72		701	68	--	55	--	0	225	--	71	4.3	--	0.20	--	--	238
6/19/69	1250		5050	8.3			3.39		2.39		0.00	3.69		2.00	0.07				--	53
31S/29E-05A01M		15	5050	--		976	88	--	105	--	0	304	--	55	46.0	--	0.40	--	--	304
06/19/69	1240		5050	8.3			4.39		4.57		0.00	4.98		1.55	0.74				--	55
31S/29E-07D01M		15	5050	--		739	69	16	67	3	0	248	96	33	55.0	--	0.30	--	476	240
06/19/69	--		5050	8.1			3.44	1.31	2.91	0.08	0.00	4.06	2.00	0.93	0.89				462	37
SAR = 1.89							44	17	38	1	0	52	25	12	11					
31S/29E-10A01M		15	5806	--		1150	112	24	37	--	0	299	99	79	106.3	--	0.17	--	499	379
11/19/68	--		5121	7.6			5.59	1.97	1.61		0.00	4.90	2.06	2.23	1.71				605*	134
SAR = 0.83							61	21	17		0	45	19	20	16					
31S/29E-10R80M		15	5806	--		1100	97	28	47	--	0	307	100	71	84.6	--	0.60	--	495	355
11/19/68	--		5121	7.7			4.84	2.30	2.04		0.00	5.03	2.08	2.00	1.36				580	103
SAR = 1.08							53	25	22		0	48	20	19	13					
31S/29E-10K01M		15	5806	--		1080	100	13	69	--	0	297	98	78	68.6	--	0.40	--	507	306
11/19/68	--		5121	7.8			4.99	1.07	3.00		0.00	4.87	2.04	2.20	1.11				573	62
SAR = 1.72							5	12	33		0	48	20	21	11					
31S/29E-11A01M		15	5806	--		1000	85	21	55	--	0	275	103	60	69.1	--	0.61	--	461	299
11/19/68	--		5121	7.9			4.24	1.73	2.39		0.00	4.51	2.14	1.69	1.11				529	73
SAR = 1.38							51	21	29		0	48	23	18	12					
31S/29E-11B01M		15	5806	--		590	38	9	62	--	0	233	32	29	4.7	--	1.20	--	286	131
11/19/68	--		5121	7.8			1.90	0.74	2.70		0.00	3.82	0.67	0.82	0.07				291	0
SAR = 2.35							35	14	51		0	71	12	15	1					
31S/29E-11D01M		15	5806	--		1080	104	22	50	--	0	307	106	67	68.6	--	0.60	--	502	349
11/19/68	--		5121	7.6			5.19	1.81	2.17		0.00	5.03	2.21	1.89	1.11				570	97
SAR = 1.16							57	20	24		0	49	22	18	11					
31S/29E-12H01M		15	5806	--		690	60	13	53	--	0	265	61	28	3.3	--	0.29	--	350	204
11/21/68	--		5121	7.9			2.99	1.07	2.30		0.00	4.34	1.27	0.79	0.05				349	0
SAR = 1.62							47	17	36		0	67	20	12	1					
31S/29E-12L01M		15	5806	--		610	50	9	58	--	0	213	36	54	0.4	--	1.74	--	313	162
11/29/68	--		5121	7.8			2.49	0.74	2.52		0.00	3.49	0.75	1.52	0.01				314	0
SAR = 1.98							43	13	44		0	60	13	26	0					
31S/29E-12M01M		15	5806	--		860	64	11	80	--	0	259	76	63	27.5	--	1.05	--	423	205
11/19/68	-		5121	7.8			3.19	0.90	3.48		0.00	4.24	1.58	1.78	0.44				450	0
SAR = 2.43							42	12	46		0	53	20	22	5					
31S/29E-15C01M		15	5050	--		549	49	10	56	3	0	237	60	23	0.7	--	0.30	--	337	161
06/19/69	1320		5050	7.6			2.44	0.82	2.44	0.08	0.00	3.88	1.25	0.65	0.01				319	0
SAR = 1.00							42	14	42	1	0	67	22	11	0					
31S/29E-16C01M		15	5050	71		684	63	--	53	--	0	218	--	36	42.0	--	0.10	--	--	230
06/18/69	1400		5050	8.2			3.14		2.30		0.00	3.57		1.01	0.68				--	51
31S/29E-21N01M		15	5050	75		607	51	10	64	3	0	192	62	55	9.6	--	0.80	--	362	166
06/18/69	1250		5050	8.2			2.54	0.82	2.78	0.08	0.00	3.15	1.29	1.55	0.15				350	8
SAR = 2.14							41	13	45	1	0	51	21	25	2					
31S/29E-23C01M		15	5050	--		626	52	8	58	3	0	129	40	64	66.0	--	0.30	--	392	161
06/18/69	1400		5050	8.2			2.59	0.66	2.52	0.08	0.00	2.11	0.83	1.80	1.06				355	55
SAR = 1.98							44	11	43	1	0	36	14	31	18					
31S/29E-27C01M		15	5050	75		1050	64	--	132	--	0	204	--	104	56.0	--	0.90	--	--	232
06/18/69	1315		5050	7.9			3.19		5.74		0.00	3.34		2.93	0.90				--	65
31S/29E-30A01M		15	5050	73		956	80	16	92	3	0	180	108	139	29.0	--	1.50	--	578	267
06/18/69	1230		5050	8.2			3.99	1.31	4.00	0.08	0.00	2.95	2.25	3.92	0.47				557	119
SAR = 2.46							42	14	43	1	0	31	23	41	5					
31S/30E-06C01M		15	5806	--		890	74	28	42	--	0	253	110	50	40.1	--	0.29	--	431	300
11/21/68	--		5121	7.7			3.69	2.30	1.83		0.00	4.15	2.29	1.41	0.65				469	92
SAR = 1.05							47	29	23		0	49	27	17	8					
31S/30E-06E01M		15	5806	--		960	75	28	47	--	0	267	90	64	45.3	--	1.35	--	437	302
11/29/68	--		5121	7.7			3.74	2.30	2.04		0.00	4.38	1.87	1.80	0.73				482	83
SAR = 1.17							46	28	25		0	50	21	20	8					
31S/30E-06L01M		15	5806	--		850	58	21	57	--	0	199	111	55	28.8	--	1.94	--	402	232
11/29/68	--		5121	7.7			2.89	1.73	2.48		0.00	3.26	2.31	1.55	0.46				431	69
SAR = 1.63							41	24	35		0	43	30	20	6					
31S/30E-06M01M		15	5806	--		970	68	18	55	--	0	153	150	58	66.9	--	4.00	--	425	243
11/29/68	--		5121	7.7			3.39	1.48	2.39		0.00	2.51	3.12	1.63	1.08				496	117
SAR = 1.53							47	20	33		0	30	37	20	13					
31S/30E-07D01M		15	5806	--		460	7	0	81	--	8	151	2	40	0.8	--	4.00	--	214	18
11/29/68	--		5121	8.5			0.35	0.00	3.52		0.27	2.47	0.04	1.13	0.01				217	0
SAR = 8.43							9	0	91		7	63	1	29	0					
31S/30E-16A01M		15	5050	80		418	7	--	82	--	10	97	--	57	0.3	--	6.60	--	--	20
09/24/69	1345		5050	8.6			0.35		3.57		0.33	1.59		1.61	0.00				--	0

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY CODE	LAB NO. / SAMPLER	TEMP FH	FC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
32S/26E-25R01M		15	5050	68	1570	183	7	183	3	0	99	756	15	1.1	--	0.60	--	1250	486
09/25/69	1445		5050	7.8		9.13	0.57	7.96	0.08	0.00	1.62	15.74	0.42	0.02				1198	405
SAR =	3.61					51	3	45	0	0	9	88	2	0					
32S/27E-16U02M		15	5050	79	891	61	--	87	--	0	278	--	17	12.0	--	0.70	--	--	179
09/25/69	1530		5050	8.2		3.04		3.78		0.00	4.56		0.48	0.19				--	0
32S/27E-35P01M		15	5050	82	861	70	--	92	--	0	222	--	37	4.4	--	0.60	--	--	261
09/25/69	1505		5050	8.3		3.49		4.00		0.00	3.64		1.04	0.07				--	79
32S/28E-16G01M		15	5806	70	578	42	9	41	--	0	154	37	48	--	--	0.20	--	254	142
07/03/69	--		5121	7.6		2.09	0.74	1.78		0.00	2.52	0.77	1.35					--	16
32S/28E-16K01M		15	5806	71	547	41	9	35	--	0	160	39	30	--	--	0.31	--	234	138
07/03/69	--		5121	7.8		2.04	0.74	1.52		0.00	2.62	0.81	0.85					--	7
32S/28E-20A01M		15	5806	72	628	28	8	50	--	5	155	47	19	4.3	--	0.31	--	233	103
08/29/69	--		5121	8.3		1.40	0.66	2.17		0.17	2.54	0.98	0.53	0.07				238	0
SAR =	2.14					33	15	51		4	59	23	12	2					
32S/28E-20R04M		15	5806	73	1131	74	16	118	--	0	170	283	52	0.7	--	0.53	--	627	250
07/01/69	--		5121	7.9		3.69	1.31	5.13		0.00	2.79	5.89	1.47	0.01				628	111
SAR =	3.24					36	13	51		0	27	58	14	0					
32S/28E-21D04M		15	5806	73	585	42	9	36	--	0	156	48	28	--	--	0.24	--	241	140
07/03/69	--		5121	7.6		2.09	0.74	1.57		0.00	2.56	1.00	0.79					--	12
32S/28E-21F01M		15	5806	72	578	44	8	36	--	0	155	53	27	--	--	0.20	--	245	142
07/03/69	--		5121	7.7		2.19	0.66	1.57		0.00	2.54	1.10	0.76					--	15
32S/28E-25W03M		15	5806	--	780	58	19	59	--	0	145	126	43	44.3	--	0.34	--	421	222
12/24/68	--		5121	7.8		2.89	1.56	2.57		0.00	2.38	2.62	1.21	0.71				421	103
SAR =	1.72					41	22	36		0	34	38	17	10					
32S/28E-28R02M		15	5806	75	759	50	17	31	--	0	184	58	37	32.1	--	0.30	--	284	195
07/01/69	--		5121	7.8		2.49	1.40	1.35		0.00	3.01	1.21	1.04	0.52				316*	44
SAR =	0.97					48	27	26		0	52	21	18	9					
32S/28E-29F03M		15	5806	75	1028	63	18	105	--	0	173	253	38	5.8	--	0.48	--	562	230
07/01/69	--		5121	7.9		3.14	1.48	4.57		0.00	2.83	5.27	1.07	0.09				569	88
SAR =	3.00					34	16	50		0	31	57	12	1					
32S/28E-29J01M		15	5806	77	896	62	15	42	--	0	167	93	54	15.7	--	0.31	--	350	218
07/01/69	--		5121	7.8		3.09	1.23	1.83		0.00	2.74	1.94	1.52	0.25				365	81
SAR =	1.24					50	20	30		0	42	30	24	4					
32S/28E-29J03M		15	5806	75	1339	117	25	106	--	0	154	334	101	6.4	--	0.37	--	759	395
07/01/69	--		5121	7.8		5.84	2.05	4.61		0.00	2.52	6.95	2.85	0.10				766	269
SAR =	2.32					47	16	37		0	20	56	23	1					
32S/28E-29R02M		15	5806	75	881	54	20	44	--	0	190	88	47	13.7	--	0.32	--	348	218
07/01/69	--		5121	7.8		2.69	1.64	1.91		0.00	3.11	1.83	1.32	0.22				361	82
SAR =	1.30					43	26	31		0	48	28	20	3					
32S/28E-30M02M		15	5806	79	671	33	8	58	--	0	171	66	23	1.4	--	0.38	--	274	115
07/01/69	--		5121	8.1		1.65	0.66	2.52		0.00	2.80	1.37	0.65	0.02				274	0
SAR =	2.35					34	14	52		0	58	28	13	0					
32S/28E-30R03M		15	5806	75	912	62	20	38	--	0	181	98	49	8.2	--	0.36	--	356	235
07/01/69	--		5121	7.7		3.09	1.64	1.65		0.00	2.97	2.04	1.38	0.13				365	86
SAR =	1.07					48	26	26		0	45	31	21	2					
32S/28E-31M01M		15	5806	77	509	30	8	40	--	0	157	36	21	3.8	--	0.28	--	214	108
07/01/69	--		5121	8.0		1.50	0.66	1.74		0.00	2.57	0.75	0.59	0.06				217	0
SAR =	1.48					38	17	45		0	65	19	15	1					
32S/28E-31P01M		15	5806	77	738	47	14	38	--	0	164	75	33	7.8	--	0.30	--	289	175
07/01/69	--		5121	7.9		2.34	1.15	1.65		0.00	2.69	1.56	0.93	0.12				296	40
SAR =	1.25					45	22	32		0	51	29	17	2					
		15	5806	72	1430	92	22	90	--	7	168	264	53	19.3	--	0.63	--	631	321
08/29/69	--		5121	8.2		4.59	1.81	3.91		0.23	2.75	5.50	1.49	0.31				631	171
SAR =	2.19					44	17	38		2	27	53	14	3					
32S/28E-34E01M		15	5806	75	907	73	17	29	--	0	172	94	52	61.6	--	0.30	--	351	251
07/01/69	--		5121	7.8		3.64	1.40	1.26		0.00	2.82	1.96	1.47	0.99				412	110
SAR =	0.79					58	22	20		0	39	27	20	14					
11N/18W-06C01S		15	5806	72	876	84	15	32	--	0	178	92	46	43.6	--	0.15	--	402	272
08/27/69	--		5121	8.1		4.19	1.23	1.39		0.00	2.92	1.91	1.30	0.70				401	126
SAR =	0.84					61	18	20		0	43	28	19	10					
11N/18W-06D01S		15	5806	70	861	78	21	8	--	0	190	43	72	5.3	--	0.06	--	318	284
07/03/69	--		5121	7.7		3.89	1.73	0.35		0.00	3.11	0.89	2.03	0.08				321	128
SAR =	0.21					65	29	6		0	51	15	33	1					
11N/18W-06H05		15	5806	70	757	72	13	35	--	0	229	62	26	21.1	--	0.19	--	344	231
08/26/69	--		5121	8.2		3.59	1.07	1.52		0.00	3.75	1.29	0.73	0.34				342	43
SAR =	1.00					58	17	25		0	61	21	12	6					
11N/18W-06P05		15	5806	70	1040	93	17	41	--	0	165	100	74	58.6	--	0.16	--	467	302
08/27/69	--		5121	8.1		4.64	1.40	1.78		0.00	2.70	2.08	2.09	0.94				465	167
SAR =	1.03					59	18	23		0	35	27	27	12					
11N/18W-06R15		15	5806	70	788	64	12	41	--	0	210	49	34	30.9	--	0.18	--	336	207
08/27/69	--		5121	8.1		3.19	0.99	1.78		0.00	3.44	1.02	0.96	0.50				335	35
SAR =	1.23					53	16	30		0	58	17	16	8					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS 180C (*105C) SUM	TI NCI
11N/18W-07R01S		15	5806	67		804	77	15	27	--	5	223	44	31	40.4	--	0.19	--	351	254
08/26/69	--		5121	8.4			3.64	1.23	1.17		0.17	3.65	0.92	0.87	0.65				350	6:
SAR = 0.74							61	20	19		3	58	15	14	10					
11N/18W-07R01S		15	5806	75		699	32	4	62	--	10	187	3	29	23.1	--	0.20	--	256	9(
08/26/69	--		5121	8.5			1.60	0.33	2.70		0.33	3.06	0.06	0.82	0.37				256	(
SAR = 2.75							34	7	58		7	66	1	18	8					
11N/18W-14M01S		15	5806	70		1010	82	29	29	--	0	331	59	31	9.3	--	0.43	--	454	321
08/27/69	--		5121	8.1			4.09	2.38	1.26		0.00	5.42	1.23	0.87	0.15				403	49
SAR = 0.70							53	31	16		0	71	16	11	2					
11N/18W-14M01S		15	5050	75		800	79	19	31	3.6	0	259	91	25	7.0	--	0.5	--	402	276
09/24/69	1620		5050	7.9					1.35	0.09	0.00	4.25	1.90	0.70	0.11					64
11N/18W-18L01S		15	5806	67		673	63	17	36	--	8	212	52	30	24.6	--	0.22	--	230	226
08/26/69	--		5121	8.3			3.14	1.40	1.57		0.27	3.47	1.08	0.85	0.40				336	39
SAR = 1.04							51	23	26		4	57	18	14	6					
11N/18W-18001S		15	5806	69		804	56	16	40	--	0	205	48	35	31.3	--	0.22	--	328	206
08/26/69	--		5121	8.2			2.79	1.31	1.74		0.00	3.36	1.00	0.99	0.50				328	38
SAR = 1.21							48	22	30		0	57	17	17	9					
11N/18W-19001S		15	5806	68		793	66	18	31	--	11	218	50	28	20.4	--	0.27	--	333	239
08/26/69	--		5121	8.3			3.29	1.48	1.35		0.37	3.57	1.04	0.79	0.33				332	42
SAR = 0.87							54	24	22		6	59	17	13	5					
11N/18W-22N01S		15	5806	67		876	75	21	29	--	13	232	51	25	44.7	--	0.23	--	374	273
08/26/69	--		5121	8.3			3.74	1.73	1.26		0.43	3.80	1.06	0.70	0.72				373	61
SAR = 0.76							56	26	19		6	56	16	10	11					
11N/18W-27E80S		15	5806	66		1100	98	25	40	--	11	270	97	32	61.1	--	0.23	--	499	348
08/26/69	--		5121	8.3			4.89	2.05	1.74		0.37	4.42	2.02	0.90	0.98				498	108
SAR = 0.93							56	24	20		4	51	23	10	11					
11N/18W-27G01S		15	5806	75		605	10	1	72	--	10	122	24	24	11.9	--	1.05	--	213	29
08/27/69	--		5121	8.3			0.50	0.08	3.13		0.33	2.00	0.50	0.68	0.19				214	0
SAR = 5.81							13	2	84		9	54	13	18	5					
11N/18W-28A01S		15	5806	67		896	88	25	33	--	0	257	131	26	11.4	--	0.30	--	443	323
08/26/69	--		5121	7.9			4.39	2.05	1.43		0.00	4.21	2.73	0.73	0.18				442	112
SAR = 0.80							56	26	18		0	54	35	9	2					
11N/19W-03L80S		15	5806	68		450	38	11	23	--	0	179	23	14	10.7	--	0.14	--	199	140
08/11/69	--		5121	8.0			1.90	0.90	1		0.00	2.93	0.48	0.39	0.17				208	0
SAR = 0.84							50	24	26		0	74	12	10	4					
11N/19W-03P01S		15	5806	69		618	44	12	24	--	0	189	30	18	2.9	--	0.14	--	222	160
08/25/69	--		5121	8.2			2.19	0.99	1.04		0.00	3.10	0.62	0.51	0.05				224	5
SAR = 0.83							52	23	25		0	72	15	12	1					
11N/19W-05P80S		15	5806	74		440	19	5	51	--	0	151	34	15	9.0	--	0.23	--	200	69
08/11/69	--		5121	8.1			0.95	0.41	2.22		0.00	2.47	0.71	0.42	0.14				208	0
SAR = 2.69							26	11	62		0	66	19	11	4					
11N/19W-05001S		15	5806	72		497	18	5	47	--	6	114	40	16	1.2	--	0.16	--	189	66
08/25/69	--		5121	8.4			0.90	0.41	2.04		0.20	1.87	0.83	0.45	0.02				190	0
SAR = 2.53							27	12	61		6	55	25	13	1					
11N/19W-07F01S		15	5806	77		500	26	8	47	--	0	167	30	21	11.0	--	0.25	--	215	96
08/11/69	--		5121	7.7			1.30	0.66	2.04		0.00	2.74	0.62	0.59	0.18				226	0
SAR = 2.07							32	16	51		0	66	15	14	4					
11N/19W-07P01S		15	5806	79		490	24	8	48	--	0	164	34	18	8.0	--	0.26	--	213	90
08/11/69	--		5121	8.1			1.20	0.66	2.09		0.00	2.69	0.71	0.51	0.13				221	0
SAR = 2.17							30	17	53		0	67	17	13	3					
11N/19W-07R01S		15	5806	78		630	42	15	32	--	0	200	26	30	24.5	--	0.30	--	245	165
08/11/69	--		5121	8.2			2.09	1.23	1.39		0.00	3.28	0.54	0.85	0.39				269	1
SAR = 1.08							44	26	29		0	65	11	17	8					
11N/19W-09F01S		15	5806	73		540	40	14	33	--	0	190	44	19	14.3	--	0.22	--	246	158
08/11/69	--		5121	8.0			1.99	1.15	1.43		0.00	3.11	0.92	0.53	0.23				258	2
SAR = 1.14							43	25	31		0	65	19	11	5					
11N/19W-09P80S		15	5806	73		600	48	15	25	--	0	196	42	23	19.8	--	0.24	--	251	183
08/11/69	--		5121	8.2			2.39	1.23	1.09		0.00	3.21	0.87	0.65	0.32				270	22
SAR = 0.81							51	26	23		0	63	17	13	6					
11N/19W-11G01S		15	5806	67		530	57	13	2	--	0	217	32	30	13.1	--	0.17	--	266	197
08/11/69	--		5121	7.8			2.84	1.07	1.13		0.00	3.56	0.67	0.85	0.21				278	19
SAR = 0.81							56	21	22		0	67	13	16	4					
11N/19W-11001S		15	5806	69		540	59	12	13	--	0	212	28	16	18.3	--	0.19	--	234	197
08/11/69	--		5121	7.7			2.94	0.99	0.56		0.00	3.47	0.58	0.45	0.29				251	23
SAR = 0.40							65	22	13		0	72	12	9	6					
11N/19W-13J01S		15	5806	70		630	60	12	27	--	0	226	37	22	20.9	--	0.17	--	272	199
08/11/69	--		5121	7.9			2.99	0.99	1.17		0.00	3.70	0.77	0.62	0.34				291	14
SAR = 0.83							58	19	23		0	68	14	11	6					
11N/19W-13N01S		15	5806	69		699	62	16	33	--	0	201	94	21	7.7	--	0.23	--	326	221
08/25/69	--		5121	8.2			3.09	1.31	1.43		0.00	3.29	1.96	0.59	0.12				333	56
SAR = 0.97							53	22	25		0	55	33	10	2					
11N/19W-14M01S		15	5806	70		620	62	11	30	--	0	236	38	23	15.0	--	0.25	--	282	199
08/11/69	--		5121	8.2			3.09	0.90	1.30		0.00	3.87	0.79	0.65	0.24				296	5
SAR = 0.92							58	17	25		0	70	14	12	4					

TABLE E-1 (continued)

MINERAL ANALYSES OF GROUND WATER

DATE	WELL TIME	%	COUNTY CODE SAMPLER	TEMP	PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS 180C (*105C) SUM	TH NCM
1	19w-14Q01S	15	5806	72		620	56	12	33	--	0	239	35	20	14.8	--	0.23	--	276	189
8	11/69 --		5121	8.0			2.79	0.99	1.43		0.00	3.92	0.73	0.56	0.24				289	0
	= 1.04						54	19	27		0	72	13	10	4					
1	19w-15Q01S	15	5806	72		590	56	12	28	--	0	223	41	18	13.1	--	0.21	--	268	190
8	11/69 --		5121	7.9			2.79	0.99	1.22		0.00	3.65	0.85	0.51	0.21				278	7
	= 0.98						56	20	24		0	70	16	10	4					
1	19w-15Q01S	15	5806	72		570	46	15	29	--	0	212	37	20	14.8	--	0.22	--	254	178
8	11/69 --		5121	8.0			2.29	1.23	1.26		0.00	3.47	0.77	0.56	0.24				267	4
	= 0.95						48	26	26		0	69	15	11	5					
1	19w-15Q02S	15	5806	77		580	49	12	30	--	0	220	26	21	13.2	--	0.20	--	248	173
8	11/69 --		5121	8.1			2.44	0.99	1.30		0.00	3.60	0.54	0.59	0.21				260	0
	= 1.00						52	21	27		0	73	11	12	4					
1	19w-17R02S	15	5806	75		770	60	15	36	--	0	212	66	35	39.5	--	0.26	--	318	213
8	11/69 --		5121	7.9			2.99	1.23	1.57		0.00	3.47	1.37	0.99	0.64				356*	39
	= 1.08						52	21	27		0	54	21	15	10					
1	19w-17Q01S	15	5806	75		600	44	13	40	--	0	238	24	23	14.1	--	0.27	--	263	165
8	11/69 --		5121	8.0			2.19	1.07	1.74		0.00	3.90	0.50	0.65	0.23				276*	0
	= 1.36						44	21	35		0	74	9	12	4					
1	19w-19Q01S	15	5806	74		1500	92	32	89	--	0	213	284	44	27.4	--	0.60	--	675	362
7	25/69 --		5121	8.0			4.59	2.63	3.87		0.00	3.49	5.91	1.24	0.44				674	187
	= 2.04						41	24	35		0	31	53	11	4					
1	19w-19Q01S	15	5806	75		1290	72	26	83	--	5	196	229	35	10.3	--	0.61	--	558	285
7	25/69 --		5121	8.3			3.59	2.14	3.61		0.17	3.21	4.77	0.99	0.17				558	116
	= 2.13						38	23	39		2	34	51	11	2					
1	19w-19Q01S	15	5806	74		1760	107	36	130	--	0	225	417	44	21.9	--	0.95	--	868	416
7	25/69 --		5121	8.1			5.34	2.96	5.65		0.00	3.69	8.68	1.24	0.35				868	231
	= 2.77						38	21	40		0	26	62	9	2					
1	19w-19Q05S	15	5806	72		620	53	14	33	--	0	238	39	20	13.8	--	0.24	--	278	191
7	11/69 --		5121	7.9			2.64	1.15	1.43		0.00	3.90	0.81	0.56	0.22				291	0
	= 1.04						50	22	27		0	71	15	10	4					
1	19w-19Q05S	15	5806	76		1070	50	19	80	--	0	239	120	38	--	--	0.63	--	425	201
7	25/69 --		5121	8.2			2.49	1.56	3.48		0.00	3.92	2.50	1.07					--	5
1	19w-21R01S	15	5806	73		700	63	20	25	--	0	238	57	28	13.4	--	0.29	--	311	240
7	12/69 --		5121	8.0			3.14	1.64	1.09		0.00	3.90	1.19	0.79	0.22				324	45
	= 0.70						53	28	18		0	64	19	13	3					
1	19w-21Q01S	15	5806	73		890	79	21	45	--	0	253	100	51	15.6	--	0.32	--	422	285
7	12/69 --		5121	8.1			3.94	1.73	1.96		0.00	4.15	2.08	1.44	0.25				437	77
	= 1.16						52	23	26		0	52	26	18	3					
		15	5806	72		860	78	24	41	--	0	225	114	50	10.3	--	0.32	--	430	294
1	27/69 --		5121	8.1			3.89	1.97	1.78		0.00	3.69	2.37	1.41	0.17				429	109
	= 1.04						51	26	23		0	48	31	18	2					
1	19w-23R01S	15	5806	73		580	50	12	37	--	0	229	38	18	12.4	--	0.22	--	270	174
3	12/69 --		5121	8.0			2.49	0.99	1.61		0.00	3.75	0.79	0.51	0.20				281	0
	= 1.22						49	19	32		0	71	15	10	4					
1	19w-23R01S	15	5806	70		650	60	11	37	--	0	231	45	27	13.6	--	0.22	--	295	193
3	12/69 --		5121	8.0			2.99	0.90	1.61		0.00	3.79	0.94	0.76	0.22				308	3
	= 1.15						54	16	29		0	66	16	13	4					
1	19w-24R01S	15	5806	70		785	84	21	36	--	8	215	61	72	21.7	--	0.28	--	411	295
3	26/69 --		5121	8.2			4.19	1.73	1.57		0.27	3.52	1.27	2.03	0.35				410	105
	= 0.91						56	23	21		4	47	17	27	5					
1	19w-24R01S	15	5806	70		610	58	11	36	--	0	245	35	22	12.2	--	0.09	--	285	191
3	12/69 --		5121	7.9			2.89	0.90	1.57		0.00	4.01	0.73	0.62	0.20				295	0
	= 1.14						54	17	29		0	72	13	11	3					
1	19w-24R01S	15	5806	73		914	72	20	36	--	0	251	61	38	23.1	--	0.67	--	425	262
8	26/69 --		5121	8.1			3.59	1.64	1.57		0.00	4.11	1.27	1.07	0.37				375	56
	= 0.97						53	24	23		0	60	19	16	5					
1	19w-25R01S	15	5806	69		781	61	17	30	--	11	245	28	24	5.9	--	0.26	--	299	221
8	27/69 --		5121	8.4			3.04	1.40	1.30		0.37	4.01	0.58	0.68	0.09				298	2
	= 0.87						53	24	23		6	70	10	12	2					
		15	5050	70		550	60		38	--	0	272		21	4.6	--	0.3	--	--	237
9	24/69 1650		5050	8.3					1.6		0.00	4.46		0.59	0.07					
1	19w-25Q02S	15	5806	70		932	61	15	47	--	8	198	20	80	6.9	--	0.16	--	337	214
8	26/69 --		5121	8.4			3.04	1.23	2.04		0.27	3.24	0.42	2.25	0.11				336	38
	= 1.40						48	19	32		4	51	7	36	2					
1	19w-26R01S	15	5806	70		712	56	15	31	--	10	238	24	21	2.8	--	0.27	--	275	200
8	26/69 --		5121	8.3			2.79	1.23	1.35		0.33	3.90	0.50	0.59	0.04				278	0
	= 0.95						52	23	25		6	73	9	11	1					
1	19w-27R05S	15	5806	72		751	47	15	39	--	19	230	8	22	6.1	--	0.29	--	271	179
8	26/69 --		5121	8.4			2.34	1.23	1.70		0.63	3.77	0.17	0.62	0.10				270	0
	= 1.27						44	23	32		12	71	3	12	2					
1	19w-28R01S	15	5806	74		1110	86	26	56	--	0	234	177	34	24.7	--	0.28	--	520	322
8	26/69 --		5121	8.0			4.29	2.14	2.44		0.00	3.83	3.68	0.96	0.40				519	130
	= 1.36						48	24	27		0	43	41	11	4					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE TIME	COUNTY	LAB SAMPLER	TEMP PH	FC	MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES: MINERAL CONSTITUENTS IN CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SiO2	TDS 180C (*105C) SUM	N
11N/19W-29G01S	15	5806	74	1360	87	26	69	--	7	232	247	35	11.2	--	0.73	--	618	3
08/26/69 --		5121	8.2		4.34	2.14	3.87		0.23	3.80	5.14	0.99	0.18				617	1
SAR = 2.15					42	21	37		2	37	50	9	2					
11N/19W-30D01S	15	5806	74	1920	150	50	150	--	5	182	634	46	30.0	--	0.82	--	1156	5
08/27/69 --		5121	8.2		7.48	4.11	6.52		0.17	2.98	13.20	1.30	0.48				1156	4
SAR = 2.71					41	23	36		1	16	73	7	3					
11N/19W-30E01S	15	5806	77	2000	181	48	141	--	0	136	712	48	40.6	--	0.55	--	1239	6
08/29/69 --		5121	6.1		9.03	3.95	6.13		0.00	2.23	14.82	1.35	0.65				1238	5
SAR = 2.41					47	21	32		0	12	78	7	3					
11N/19W-80F01S	15	5806	72	590	50	14	37	--	0	244	32	22	12.4	--	0.21	--	278	16
08/12/69 --		5121	8.0		2.49	1.15	1.61		0.00	4.00	0.67	0.62	0.20				288	
SAR = 1.19					47	22	31		0	73	12	11	4					
11N/19W-80P01S	15	5806	74	1600	96	34	131	--	0	255	375	40	9.9	--	0.88	--	814	38
08/25/69 --		5121	8.0		4.79	2.80	5.70		0.00	4.18	7.81	1.13	0.16				813	17
SAR = 2.92					36	21	43		0	31	59	8	1					
11N/20W-05J02S	15	5806	73	1160	78	24	90	--	0	143	290	35	4.0	--	0.53	--	593	27
08/29/69 --		5121	8.1		3.89	1.97	3.91		0.00	2.34	6.04	0.99	0.06				592	16
SAR = 2.29					40	20	40		0	25	64	10	1					
11N/20W-05L01S	15	5806	73	1220	89	25	88	--	0	158	329	35	2.7	--	0.76	--	645	33
08/29/69 --		5121	8.2		4.44	2.05	3.63		0.00	2.59	6.85	0.99	0.04				648	20
SAR = 2.12					43	20	37		0	25	65	9	0					
11N/20W-09C01S	15	5806	73	1720	132	37	123	--	0	149	535	44	10.7	--	0.60	--	956	48
08/29/69 --		5121	8.1		6.59	3.04	5.35		0.00	2.44	11.14	1.24	0.17				956	36
SAR = 2.44					44	20	36		0	16	74	8	1					
11N/20W-10H01S	15	5806	73	1310	73	22	93	--	0	199	248	34	6.3	--	0.78	--	575	27
08/29/69 --		5121	8.3		3.64	1.81	4.04		0.00	3.26	5.16	0.96	0.10				575	10
SAR = 2.45					38	19	43		0	34	54	10	1					
11N/20W-13L80S	15	5806	73	1250	67	23	83	--	0	166	248	33	3.9	--	0.59	--	536	26
08/29/69 --		5121	8.1		3.34	1.89	3.61		0.00	2.72	5.16	0.93	0.06				541	12
SAR = 2.23					38	21	41		0	31	58	10	1					
11N/20W-13Q01S	15	5806	73	1500	77	29	122	--	2	209	332	37	5.1	--	0.88	--	708	312
08/29/69 --		5121	8.4		3.84	2.38	5.31		0.07	3.42	6.91	1.04	0.08				708	137
SAR = 3.01					33	21	46		1	30	60	9	1					
11N/20W-14H01S	15	5806	73	1550	88	33	125	--	0	227	357	40	12.5	--	1.06	--	768	353
08/29/69 --		5121	8.2		4.39	2.71	5.44		0.00	3.72	7.43	1.13	0.20				769	167
SAR = 2.88					35	22	43		0	30	59	9	2					
11N/20W-15H80S	15	5806	74	910	46	14	68	--	0	150	154	27	3.1	--	0.33	--	383	173
08/29/69 --		5121	8.1		2.29	1.15	2.96		0.00	2.46	3.21	0.76	0.05				387	50
SAR = 2.25					36	18	46		0	38	49	12	1					
11N/20W-16H01S	15	5806	79	1840	153	33	137	--	0	165	575	57	12.1	--	0.70	--	1037	517
08/14/69 --		5121	8.2		7.63	2.71	5.96		0.00	2.70	11.97	1.61	0.19				1049	382
SAR = 2.62					47	17	36		0	16	73	10	1					
11N/20W-17M01S	15	5806	79	1730	164	32	64	--	0	111	500	55	21.1	--	0.42	--	875	539
08/14/69 --		5121	7.9		8.18	2.63	2.78		0.00	1.82	10.41	1.55	0.34				892	448
SAR = 1.20					60	19	20		0	13	74	11	2					
11N/20W-24A01S	15	5806	73	1740	105	36	136	--	0	246	414	40	17.0	--	0.95	--	871	409
08/29/69 --		5121	8.0		5.24	2.96	5.92		0.00	4.03	8.62	1.13	0.27				870	207
SAR = 2.92					37	21	42		0	29	61	8	2					
11N/20W-25K01S	15	5050	82	2100	221		217	--	0	105		60	62	--	0.1	--		846
09/25/69 0915		5050	8.1				9.44		0.00	1.72		1.69	1.00					
11N/20W-34J01S	15	5806	75	4520	288	87	375	--	0	159	1545	94	25.8	--	1.00	--	2468	1078
08/29/69 --		5121	8.0		14.37	7.15	16.31		0.00	2.61	32.17	2.65	0.42				2494	948
SAR = 4.97					38	19	43		0	7	85	7	1					
11N/21W-09D80S	15	5806	86	1100	41	6	120	--	0	124	220	40	--	--	0.97	--	489	127
08/14/69 --		5121	8.1		2.04	0.49	5.22		0.00	2.03	4.58	1.13					--	25
11N/21W-11G01S	15	5806	81	920	31	19	104	--	0	126	240	21	36.7	--	0.55	--	477	157
08/14/69 --		5121	8.0		1.55	1.56	4.52		0.00	2.06	5.00	0.59	0.59				515	54
SAR = 3.63					20	20	59		0	25	61	7	7					
11N/21W-11Q01S	15	5806	--	2170	200	35	96	--	0	103	690	35	2.7	--	0.49	--	1107	645
09/03/69 --		5121	7.9		9.98	2.88	4.18		0.00	1.69	14.36	0.99	0.04				1110	560
SAR = 1.65					59	17	24		0	10	84	6	0					
11N/22W-03F01S	15	5806	77	1930	130	44	102	--	0	143	542	30	3.7	--	0.68	--	920	504
09/03/69 --		5121	7.8		6.49	3.62	4.44		0.00	2.34	11.28	0.85	0.06				923	387
SAR = 1.97					45	25	30		0	16	78	6	0					
[illegible]	15	5050	82	1375	124		122	--	0	137		28	1.8	--	0.6	--		517
09/25/69 1100		5050	8.1				5.31		0.00	2.24		0.79	0.03					
11N/22W-04F01S	15	5806	77	2190	158	57	140	--	0	111	740	42	13.9	--	0.66	--	1206	628
09/03/69 --		5121	7.9		7.88	4.69	6.09		0.00	1.82	15.41	1.18	0.22				1207	537
SAR = 2.43					42	25	33		0	10	83	6	1					
11N/23W-12P01S	15	5050	78	3000	337	136	255	8.0	0	173	1480	216	0.0	--	1.3	--	2750	1400
09/25/69 1145		5050	7.9				11.09	0.20	0.00	2.84	30.83	6.09	0.00					1260

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

TE WELL NO. TIME	COUNTY	LAB SAMPLE NO.	TEMP DEG		MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER			TDS 180C (*105C) SUM	TH NCH
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2		
1/18N-31E015	15	5806	72	618	57	13	25	--	0	195	40	21	21.1	--	0.16	--	274	194
6/27/69 --		5121	8.2		2.84	1.07	1.09		0.00	3.20	0.83	0.59	0.34				274	34
SAR = 0.78					57	21	22		0	64	17	12	7					
1/18N-31E025	15	5806	71	793	64	16	33	--	6	178	38	41	49.4	--	0.16	--	336	224
6/27/69 --		5121	8.3		3.19	1.31	1.43		0.20	2.92	0.79	1.16	0.80				336	68
SAR = 0.45					54	22	24		3	50	13	20	14					
1/19N-25D015	15	5806	69	615	66	16	33	--	7	171	45	43	53.5	--	0.14	--	348	231
6/25/69 --		5121	8.2		3.29	1.31	1.43		0.23	2.80	0.94	1.21	0.86				348	79
SAR = 0.44					54	22	24		4	46	15	20	14					
1/19N-32E025	15	5806	72	509	38	14	30	--	0	195	29	19	6.6	--	0.25	--	228	151
6/27/69 --		5121	7.8		1.90	1.15	1.30		0.00	3.20	0.60	0.53	0.11				233	0
SAR = 1.06					44	26	30		0	72	14	12	2					
1/19N-33E015	15	5806	73	404	22	8	37	--	0	159	18	14	0.4	--	0.14	--	178	89
6/27/69 --		5121	8.0		1.10	0.66	1.61		0.00	2.61	0.37	0.39	0.01				178	0
SAR = 1.72					33	19	48		0	77	11	12	0					
1/19N-33E015	15	5806	73	439	33	13	23	--	0	176	20	14	5.8	--	0.14	--	191	136
6/27/69 --		5121	8.0		1.65	1.07	1		0.00	2.88	0.42	0.39	0.09				196	0
SAR = 0.86					44	29	27		0	76	11	10	2					
1/19N-35E015	15	5806	71	524	48	11	20	--	7	172	17	16	14.9	--	0.14	--	219	163
6/25/69 --		5121	8.3		2.39	0.90	0.87		0.23	2.82	0.35	0.45	0.24				219	10
SAR = 0.88					57	22	21		6	69	9	11	6					
1/19N-35W015	15	5806	67	450	54	8	14	--	0	179	28	14	15.3	--	0.13	--	206	165
7/11/69 --		5121	7.9		2.69	0.66	0.61		0.00	2.93	0.58	0.39	0.25				222	18
SAR = 0.47					68	17	15		0	70	14	9	6					
1/19N-35W805	15	5806	67	490	50	11	13	--	0	195	16	14	17.9	--	0.16	--	202	168
7/11/69 --		5121	7.8		2.49	0.90	0.56		0.00	3.20	0.33	0.39	0.29				218*	8
SAR = 0.43					63	23	14		0	76	8	9	7					
1/20N-31D015	15	5806	73	1018	84	19	77	--	0	126	299	31	2.4	--	0.26	--	573	290
7/30/69 --		5121	7.8		4.19	1.56	3.35		0.00	2.06	6.22	0.87	0.04				575	187
SAR = 1.47					46	17	37		0	22	68	9	0					
1/20N-32D015	15	5806	77	981	73	23	77	--	0	176	240	34	2.4	--	0.43	--	534	275
7/01/69 --		5121	7.8		3.64	1.89	3.35		0.00	2.88	5.00	0.96	0.04				537	131
SAR = 2.01					41	21	38		0	32	56	11	0					
1/20N-36G015	15	5806	75	500	36	12	27	--	0	183	25	17	6.4	--	0.20	--	209	141
6/27/69 --		5121	7.8		1.80	0.99	1.17		0.00	3.00	0.52	0.48	0.10				214	0
SAR = 0.99					45	25	30		0	73	13	12	2					

TABLE E-2

This table presents trace mineral analyses performed by the U. S. Geological Survey and Department of Water Resources Laboratories. The following are definitions of chemical symbols used in this table:

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	LI	Lithium
BE	Beryllium	MN	Manganese
BI	Bismuth	MO	Molybdenum
BR	Bromine	NI	Nickel
CD	Cadmium	PB	Lead
CO	Cobalt	SR	Strontium
CR	Chromium	TI	Titanium
CU	Copper	V	Vanadium
FE	Iron	ZN	Zinc
GA	Gallium		

Abbreviations

LAB	Laboratory	U	Micrograms per liter
	5005 U.S. Geological Survey	Y	Less than the amount indicated
	5050 Department of Water Resources		
M	Milligrams per liter		

TABLE E-2

TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE	GA	GE
08S/22E-36K01 M	01-27-69	5050	-- --	0.03M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
24S/24E-04P02 M	10-28-68	5050	-- --	0.57M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
24S/24E-05Q02 M	10-28-68	5050	-- --	0.16M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
24S/24E-05Q32 M	10-28-68	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
24S/24E-05Q32 M	03-04-69	5050	-- --	0.16M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
24S/24E-05Q32 M	03-04-69	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
24S/24E-05Q02 M	03-04-69	5000	53U --	-- 3.3UY	1.3UY 21U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.4U	3.3UY 13UY	3.3UY --	29U --	13UY --	0.7UY --
25S/27E-08H01 M	07-21-69	5050	-- --	0.03M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
27S/26E-28A01 M	08-27-69	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 8.0U	3.3UY 13UY	3.3UY --	15U	13UY	0.7UY
27S/26E-30C80 M	08-27-69	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.5U	3.3UY 14TU	3.3UY --	10U	13UY	0.7UY
28S/26E-11L80 M	08-27-69	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.1U	3.3UY 13U	3.3UY --	4.0U	13UY	0.7UY
28S/26E-13L01 M	08-27-69	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 13UY	3.3UY --	147U	13UY	0.7UY
28S/27E-06F01 M	08-27-69	5000	10U --	-- 3.3UY	1.3UY 1.5U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 13UY	3.3UY --	11U	13UY	1.9U
28S/27E-18J80 M	08-27-69	5000	3.3UY --	-- 3.3UY	1.3UY 1.5U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 13UY	3.3UY --	267U	13UY	0.9U
28S/27E-29L80 M	08-27-69	5000	3.3UY --	-- 3.3UY	1.3UY 14U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 13UY	3.3UY --	53U	13UY	0.7UY

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1969

GROUND WATER LEVEL CHANGES UNCONFINED AND SEMICONFINED AQUIFERS AND SELECTED OBSERVATION WELLS

SCALE OF MILES
6 0 6 12

LEGEND
DISTRICT OR AREA BOUNDARIES
5-22.50 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
WELLS MEASURED MONTHLY
WELLS MEASURED ANNUALLY AND SEMI-ANNUALLY
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +50 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1948 TO SPRING 1968
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -50 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1948 TO SPRING 1968
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1969
GROUND WATER LEVEL CHANGES
UNCONFINED AND SEMICONFINED AQUIFERS
AND
SELECTED OBSERVATION WELLS
MERCED I.D. 5-22.06
MERCED BOTTOMS 5-22.04
MERCED CO. 5-22.05
DUCK L. I.D. 5-22.04
MODESTO I.D. 5-22.07
TURLOCK I.D. 5-22.08
SALIDA
MODESTO
STANISLAUS CO. 5-22.09
SAN LUIS CANAL CO. 5-22.10
PANOCHE I.D. 5-22.11
WEST CORCORAN-MUSSELMAN-MUSSELMAN AREA
CORCORAN I.D. 5-22.12
MAXWELL I.D. 5-22.13
FRESNO I.D. 5-22.18
FRESNO - KLOSKY AREA 5-22.17
HURON
MENDOTA
AREA 5-22.19
CONSOLIDATED I.D. 5-22.16
LOWER KINGS
RIVER
AREA 5-22.20
ALTA I.D. 5-22.19
TULARE I.D. 5-22.23
CORCORAN 5-22.24
TULARE LAKE
LOST HILLS AREA 5-22.45
AVENAL
MARTINEZ
AREA 5-22.44
LOWER TULE RIVER I.D. 5-22.30
PIXLEY I.D. 5-22.33
ALPAUGH ALLENSWORTH AREA 5-22.34
SEMITROPIC W.S.D. 5-22.49
SOUTHERN SAN JOAQUIN M.U.D. 5-22.36
SOUTHERN WASCO I.D. 5-22.38
KERN RIVER BELT AREA 5-22.40
BAKERSFIELD
MARICOPA
TEHACHAPI VALLEY
HANFORD VALLEY
MILL CREEK
MADERA
CHOWCHILLA
MERCED
STOCKTON
TRACY AREA 5-22.01
SOUTH BAY AQUEDUCT
LIBERTY VALLEY
MERCED VALLEY
SOUTH FORK MERCED RIVER
MERCED FALLS
MERCED RIVER
MERCED RIVER
MERCED FALLS
MERCED RIVER
MERCED RIVER
MERCED RIVER

LEGEND

AREA BOUNDARIES

ICATE CODE CLASSIFICATION

IE

E

AQUEDUCT AND TURNOUTS

OPERATIVE GROUND WATER
ORING PROGRAMS

DIL CONSERVATION DISTRICT

ONSERVATION DISTRICT

Y WATER DISTRICT

Y

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969

DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF −5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969

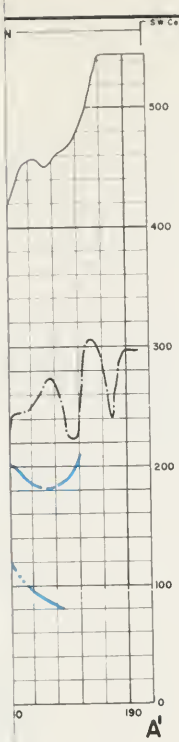
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1969

GROUND WATER LEVEL CHANGES
CONFINED AND SEMICONFINED AQUIFERS
AND
COOPERATIVE PROGRAM AREAS

SCALE OF MILES
6 0 6 12

LEGEND
DISTRICT OR AREA BOUNDARIES
S-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
AREAS OF COOPERATIVE GROUND WATER LEVEL MONITORING PROGRAMS
LOS BANOS SOIL CONSERVATION DISTRICT
2 POSO SOIL CONSERVATION DISTRICT
3 KINGS COUNTY WATER DISTRICT
4 KERN COUNTY
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969
DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -2.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1968 TO SPRING 1969
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1969
GROUND WATER LEVEL CHANGES
CONFINED AND SEMICONFINED AQUIFERS
AND
COOPERATIVE PROGRAM AREAS
MILE 0 MILE
STOCKTON
MODESTO ID S-22.07
OAKDALE ID S-22.06
TURLOCK ID S-22.08
MERCED ID S-22.09
MERCED BOTTOMS S-22.34
CHOWCHILLA W.D. S-22.12
WEST CHOWCHILLA-MADERA S-22.14
MADERA ID S-22.13
FRESNO ID S-22.15
FRESNO SLOUGH AREA S-22.17
CONSOLIDATED ID S-22.18
ALTA I.D. S-22.19
KAWEAH DCTN.
TULARE I.D. S-22.23
W.C.D. S-22.24
LOWER TULE RIVER I.D. S-22.30
PIXLEY I.D. S-22.35
SOUTH KERN S-22.37
SOUTH FORK S-22.39
SOUTHERN MADERA I.D. S-22.38
SEMITROPIC W.C.D. S-22.43
KERN RIVER DELTA AREA S-22.40
MAGUNDEN
EDISON
MANZANA
TRACY AREA
DELTA-MENDOTA
CAMALIGO S-22.29
SAN LUIS
FORD S-22.32
MAGNOLIA
MAGOTA
HURON
ARIZ
S-22.27
MUSSELLOCK
MUSTANG
MIDR
S-22.44
COASTAL STRAND
BUCKLEY
FRESNO
CLOVIS
SANGER
REEDLEY
DINUBA
ORANGE COVE
CENTERVILLE BOTTOMS S-22.11
LOS BANOS
TULARE
WASCO
SHAFTER
BAKERSFIELD
TAFT
MARICOPA
TAYLOR
WHITE VALLEY
LUMMIS VALLEY
TULAMEN VALLEY
MANTER VALLEY
BOLTON NO. VALLEY
SAN JOAQUIN VALLEY
SOUTH FORK VALLEY
MAGNOLIA VALLEY
MAGOTA VALLEY
2
4



HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
10 ELK BAYOU
11 LINDSAY-EXETER
12 TULE RIVER
13 LOWER DEER CREEK
14 MIDDLE DEER CREEK
15 DELANO-EARLIMART
16 Mc FARLAND - SHAFTER
17 ROSEDALE
18 ARVIN-EDISON

LEGEND

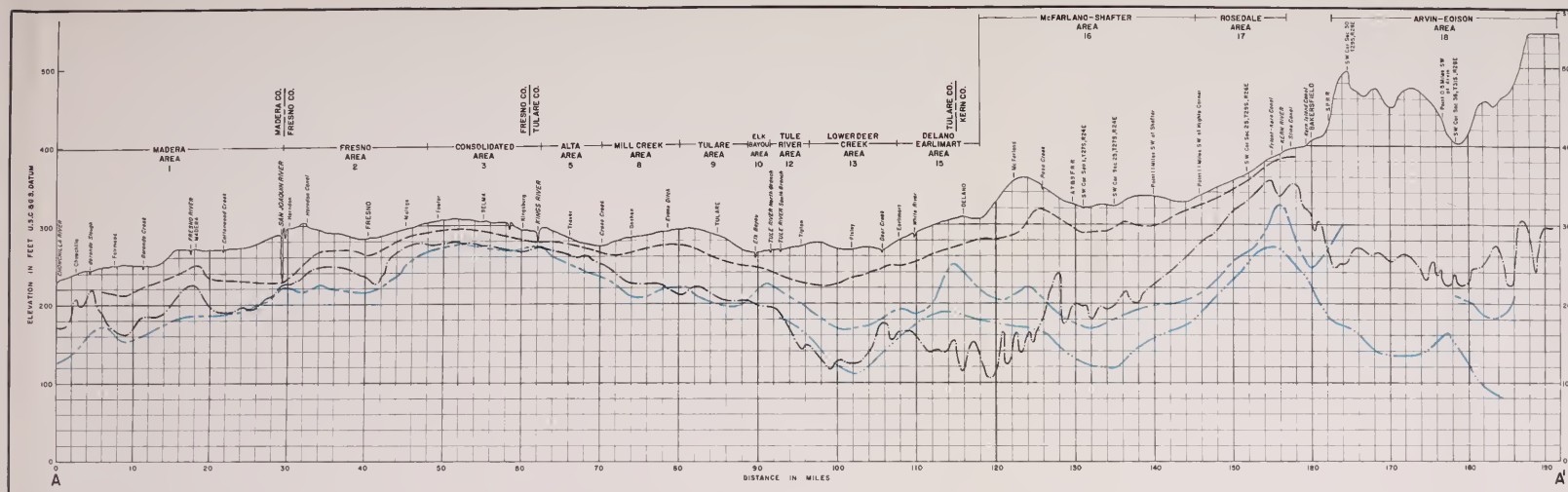
- GROUND WATER AREA BOUNDARIES
- GROUND WATER LEVEL FALL 1921
- GROUND WATER LEVEL FALL 1951
- GROUND WATER LEVEL SPRING 1969, UNCONFINED AQUIFER
- GROUND WATER LEVEL SPRING 1969, PRESSURE SURFACE
- A A GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1969

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1969

SCALE OF MILES
6 0 6 12



HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
10 ELK BAYOU
11 LINDSAY-EXETER
12 TULE RIVER
13 LOWER DEER CREEK
14 MIDDLE DEER CREEK
15 DELANO-EARLIMART
16 McFARLANO-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON

LEGEND

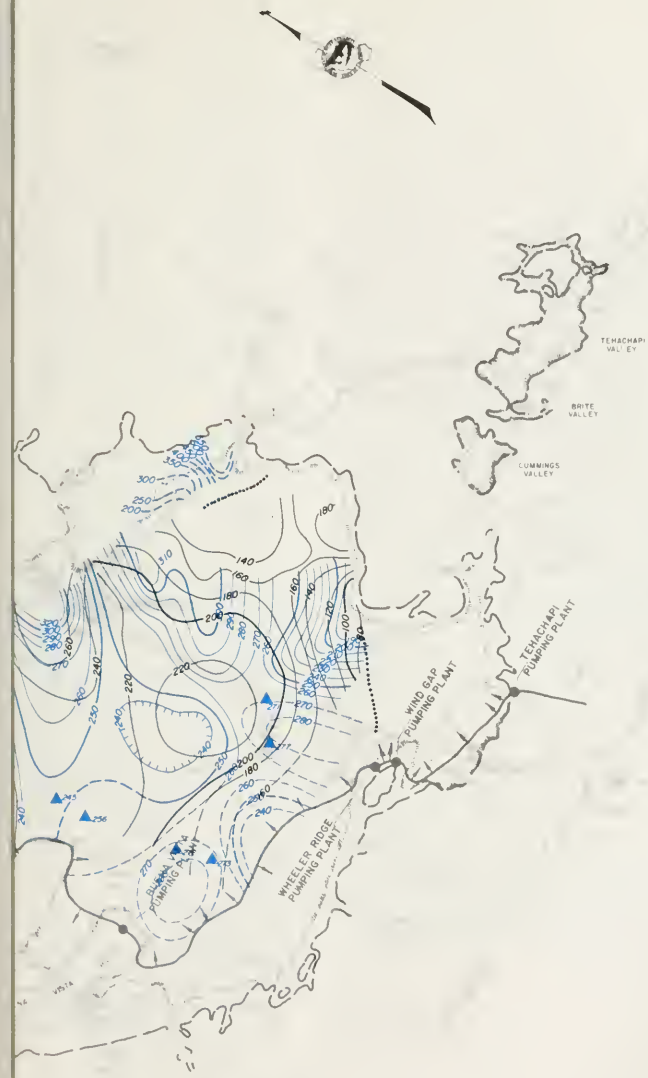
GROUND WATER AREA BOUNDARIES
GROUND WATER LEVEL FALL 1921
GROUND WATER LEVEL FALL 1951
GROUND WATER LEVEL SPRING 1969, UNCONFINED AQUIFER
GROUND WATER LEVEL SPRING 1969, PRESSURE SURFACE
GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1969

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1969

SCALE OF MILES



EXPLANATION

200 UNCONFINED WATER-TABLE CONTOUR
Lines of equal elevation of water in unconfined and semiconfined aquifers; dashed where inferred; contour interval 10, 20, & 50 Feet

200 PRESSURE-SURFACE CONTOUR
Lines of equal elevation of pressure surface in aquifers that are confined or semiconfined; dashed where inferred; contour interval 20 feet

Ground water barrier

Foothill line

Bedrock line

California aqueduct and turnouts

256 Due to insufficient data, only ground water elevations of these wells are shown

Note: Water level measurements south of township 13 and west of the trough of the valley were made in December 1968

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1969

LINES OF EQUAL ELEVATION OF WATER IN WELLS

SAN JOAQUIN VALLEY
SPRING 1969

SCALE OF MILES
6 0 6 12

EXPLANATION
INCREMENTS WITH TABLE CONTOUR
PRESSURE SURFACE CONTOUR
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 5.5.3
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1963

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

BOOKS REQUESTED BY ANOTHER BORROWER
ARE SUBJECT TO RECALL AFTER ONE WEEK.
RENEWED BOOKS ARE SUBJECT TO
IMMEDIATE RECALL

RECALLED PSL
NOV 11 1988
NOV 11 REC'D
JAN 6 1989
RECEIVED
APR 20 1986
PHYS SCI LIBRARY
JUN 20 1986
APR 29 1986
MAY 19 1987
RECEIVED
MAY 14 1987
JUN 05 1989
RECALLED PSL
JUN 27 1989
JUL 05 1990
RECEIVED
RECALLED PSL
MAY 14 1991
LIBRARY, UNIVERSITY OF CALIFORNIA, DAVIS
Book Slip—Series 458

3 1175 00490 0026

TC
824
C2
A2
no. 130 : 69
v. 4-5
appx. A-F
PHYSICAL
SCIENCES
LIBRARY

California. Dept. of Water Resources.
Bulletin.

1970