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Consulting Civil Engineers, A Corporation

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BY [unclear]
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January 23, 2009

Ms. Victoria Whitney, Chief
State Water Resources Control Board
P.O. Box 2000
Sacramento, California 95812-2000

Re: New Water Right Application and Petitions for Change for Water Right License 3697 (Application 10795), License 4216 (A14178), License 4729A (A13684A) and License 5559 (A13384) of Gallo Glass Company – Sonoma County

Dear Ms. Whitney:

On behalf of Gallo Glass Company, we are filing the enclosed new water right application and Petitions for Change for the above mentioned rights. The Application requests the diversion of 253 acre-feet to offstream storage in existing Reservoir A for irrigation, frost protection and heat control of 428 acres of existing vineyard. The Petitions for Change were filed to accurately describe the project as it is being operated and to accommodate additional lands that were planted outside of the licensed places of use (the same 428 acres named in the new application). We have also attached the required environmental information forms and maps to accompany the Application and Petitions and a reproducible copy of the maps.

Enclosed are separate checks for the required State Water Resources Control Board filing fee as well as a check for \$850.00 for the DFG environmental fee.

- ✓ A check for \$4,645.00 for the new Application
- A check for \$1,109.50 for the Petition for Change on License 3697 (A10795)
- A check for \$1,009.30 for the Petition for Change on License 4216 (A14178)
- A check for \$1,036.00 for the Petition for Change on License 4729A (A13684A)
- A check for \$1,096.60 for the Petition for Change on License 5559 (A13384)
- ✓ A check for \$850.00 payable to the DFG for the environmental filing fee

Very truly yours,

WAGNER & BONSIGNORE
CONSULTING CIVIL ENGINEERS


Ryan Stolfus

1/23/09
DFG petition fee
paid on A31743.
KDM
\$1109.50, \$1009.30, \$1036.00
\$1,096.60

Encl. ✓
cc: Laurie Kenney (w/ encls)
Robert Floerke (w/ encls)
GALLE014.DOC

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

Add Fish and Wildlife enhancement 10/24/2014 BSS

a. PURPOSE OF USE (Irrigation, domestic, etc.)	DIRECT DIVERSION				STORAGE		
	AMOUNT		SEASON OF DIVERSION		AMOUNT	SEASON OF COLLECTION	
	Rate (cfs or gpd)*	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)	Acre-feet per annum	Beginning date (month & day)	Ending date (month & day)
Irrigation					253	10-1	3-31
Frost Protection							
Heat Control							
Fish & Wildlife Enhancement							
	Total afa		Total afa		253		

See Attachment No. ____ * If rate is less than 0.025 cubic feet per second (cfs), use gallons per day (gpd).

b. Total combined amount taken by direct diversion and storage during any one year will be 253 acre-feet.

c. Reservoir storage is: onstream offstream underground (If underground storage, attach Underground Storage Form.)

d. County in which diversion is located: Sonoma County in which water will be used: Sonoma

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION

a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):

- POD / PORD # Russian River tributary to Pacific Ocean thence _____
- POD / PORD # A tributary to _____ thence _____
- POD / PORD # _____ tributary to _____ thence _____
- POD / PORD # _____ tributary to _____ thence _____

If needed, attach additional pages, check box below and label attachment

See Attachment No. ____

b. State Planar and Public Land Survey Coordinate Description:

ANT 3/4/09

POD/PORD #	CALIFORNIA COORDINATES (NAD 83)	ZONE	POINT IS WITHIN (40-acre subdivision)	SECTION	TOWNSHIP	RANGE	BASE AND MERIDIAN
1	N 1,951,607' E 6,309,448'	2	NE 1/4 of NW 1/4	29	8N	9W	MD
PORD A	N 1,956,579 E 6,306,108	2	NE 1/4 of NE 1/4	19	8N	9W	MD
			1/4 of 1/4				
			1/4 of 1/4				

If needed, attach additional pages, check box below and label attachment

See Attachment No. ____

c. Name of the post office most often used by those living near the proposed point(s) of diversion: Healdsburg

6. WATER AVAILABILITY

- a. Have you attached a water availability analysis for this project? YES NO
 If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation: If needed, attach additional pages, check box below and label attachment.

See Attachment No. 2

- b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board (State Water Board) during your proposed season of diversion?
 YES NO
- c. In an average year, does the stream dry up at any point downstream of your project? YES NO
 If YES, during which months? Jan Feb Mar Apr May Jun Jul Aug Sep Oct
 Nov Dec
- d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.) If needed, attach additional pages, check box below and label attachment
N/A

See Attachment No. _____

7. PLACE OF USE

a.

Add segment of Porter Cr. BSS 10/24/14 see 10/24/14 letter.

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED	
					Acres	Presently cultivated:
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
¼ of ¼						<input type="checkbox"/> YES <input type="checkbox"/> NO
Total Acres:						

*Please indicate if section is projected with a "(P)" following the section number.

See Attachment No. 3 Please provide the Assessor's Parcel Number(s) for the place of use:

8. PROJECT SCHEDULE

- a. Project is: proposed. Year construction will begin: _____
 partially complete. Extent of completion: _____

complete. Year completed: Reservoir built in 1996, vineyard development complete in

- b. Year of first use: 1996 Year water will be used to the full extent intended: 2008 ^{was} 2004

9. JUSTIFICATION OF AMOUNTS REQUESTED

- a. IRRIGATION: Maximum area to be irrigated in any one year: 428 acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)
Vineyard	428	Drip	253	4-15	11-1

See Attachment No. ___

b. DOMESTIC: Number of residences to be served: _____ Separately owned?
 YES NO Number of people to be served: _____ Estimated daily use per person is:
 _____ gallons per day Area of domestic lawns and gardens: _____ square feet
 Incidental domestic uses:

 (dust control area, number and kind of domestic animals, etc.)

c. STOCKWATERING: Kind of stock: _____ Maximum number: _____
 Describe type of operation: _____
 (feedlot, dairy, range, etc.)

d. RECREATIONAL: Type of recreation: Fishing Swimming Boating Other _____

e. MUNICIPAL:

POPULATION List for 5-year periods until use is completed		MAXIMUM MONTH		ANNUAL USE		
Period	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total (acre-feet)
Present						

See Attachment No. ___

Month of maximum use during year: _____

Month of minimum use during year: _____

f. HEAT CONTROL: Area to be heat controlled: 428 net acres
 Type of crops protected: Vineyard
 Rate at which water is applied to use: 35 gpm ~~per acre~~
 Heat protection season will begin 6-15 and end 9-30
 (month and day) (month and day)

g. FROST PROTECTION: Area to be frost protected: 428 net acres
 Type of crops protected: Vineyard
 Rate at which water is applied to use: 55 gpm ~~per acre~~
 The frost protection season will begin 3-1 and end 5-31
 (month & day) (month & day)

h. INDUSTRIAL: Type of industry: _____
 Basis for determination of amount of water needed: _____

i. MINING: Name of the claim: _____ Patented Unpatented

Nature of the mine: _____ Mineral(s) to be mined: _____
 Type of milling or processing: _____
 After use, the water will be discharged into _____ (watercourse)
 in _____ ¼ of _____ ¼ of Section _____, T _____, R _____, _____ B. & M.

- j. POWER: Total head to be utilized: _____ feet
 Maximum flow through the penstock: _____ cfs Maximum theoretical horsepower capable of being generated by the works (cfs x fall + 8.8): _____
 Electrical capacity (hp x 0.746 x efficiency): _____ kilowatts at: _____ % efficiency
 After use, the water will be discharged into _____ (watercourse)
 in _____ ¼ of _____ ¼ of Section _____, T _____, R _____, _____ B&M. FERC No.: _____
- k. FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and habitat type that will be preserved or enhanced: _____
- l. OTHER: Describe use: _____
 Basis for determination of amount of water needed: _____

10. DIVERSION AND DISTRIBUTION METHOD

- a. Diversion will be by gravity by means of: _____
 (dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)
- b. Diversion will be by pumping from: offset well
 (sump, offset well, channel, reservoir, etc)
 Pump discharge rate: 2.7 cfs or gpd Horsepower: 400 hp
 Pump Efficiency: _____

c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (pipe or channel)	MATERIAL (type of pipe or channel lining; indicate if pipe is buried or not)	CROSS-SECTION (pipe diameter, or ditch depth and top and bottom width) (inches or feet)	LENGTH (feet)	TOTAL LIFT OR FALL		CAPACITY (cfs, gpd or gpm)
				feet	+ or -	
Pipe	Steel buried	12"	10,000'	300	+	3 cfs

See Attachment No. _____

d. Storage reservoirs: (For underground storage, complete and attach underground storage form)

RESERVOIR NAME OR NUMBER	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet)	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (acre-feet)	Maximum water depth (feet)
Offstream A	48'	Earth	1870	2	9 AC	253	45'
Three sided pit pond							

See Attachment No. _____

e. Outlet pipe: Complete for storage reservoirs having a capacity of 10 acre-feet or more.

RESERVOIR: NAME OR NUMBER	OUTLET PIPE				
	Diameter in inches	Length in feet	Fall: Vertical distance between entrance and exit of outlet pipe in feet	Head: Vertical distance from spillway to entrance of outlet pipe in feet	Dead Storage: Storage below entrance of outlet pipe in acre-feet
A	N/A	Reservoir is offstream and is filled by pumping.			

See Attachment No. ____

e. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to off-stream storage will be 3 cfs. Diversion to offstream storage will be made by:
 Pumping Gravity

11. CONSERVATION AND MONITORING

a. What methods will you use to conserve water? Explain.
Drip irrigation

b. How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water? Weir Meter Periodic sampling Other (describe)

12. RIGHT OF ACCESS

a. Does the applicant own all the land where the water will be diverted, transported and used?
 YES NO
 If NO, I do do not have a recorded easement or written authorization allowing me access.

b. List the names and mailing addresses of all affected landowners and state what steps are being taken to obtain access:
Point of diversion is located on Sonoma Parcel 110-230-10 owned by Aquarius Ranch. Access is by written agreement.

See Attachment No. ____

13. EXISTING WATER RIGHTS AND RELATED FILINGS

a. Do you claim an existing right for the use of all or part of the water sought by this application?
 YES NO
 If YES, please specify: Riparian Pre-1914 Registration Permit License
 Percolating groundwater Adjudicated Other (specify) _____

b. For each existing right claimed, state the source, year of first use, purpose, season and location of the point of diversion (to within quarter-quarter section). Include number of registration, permit, license, or statement of water diversion and use, if applicable.

See Attachment No. ____

17. STATE/FEDERAL PERMITS AND REQUIREMENTS

- a. Check any additional state or federal permits required for your project:
 Federal Energy Regulatory Commission U.S. Forest Service U.S. Bureau of Land Management U.S. Corps of Engineers U.S. Natural Res. Conservation Service Calif. Dept. of Fish and Game State Lands Commission Calif. Dept. of Water Resources (Div. of Safety of Dams) Calif. Coastal Commission State Reclamation Board Other (specify)

b. For each agency from which a permit is required, provide the following information:

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.

See Attachment No. ____

- c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank, or riparian habitat of any stream or lake? YES NO
 If YES, explain:

See Attachment No. ____

- d. Have you contacted the California Department of Fish and Game concerning your project?
 YES NO If YES, name, telephone number and date of contact:

18. ENVIRONMENTAL DOCUMENT

- a. Has any California public agency prepared an environmental document for your project?
 YES NO
- b. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency: _____
- c. If NO, check the appropriate box and explain below, if necessary:
 The applicant is a California public agency and will be preparing the environmental document.*
 I expect that the State Water Board will be preparing the environmental document.**
 I expect that a California public agency other than the State Water Board will be preparing the environmental document.* Public agency: _____
 See Attachment No. ____

* Note: When completed, submit a copy of the final environmental document (including notice of determination) or notice of exemption to the State Water Board, Division of Water Rights and proof of payment of the State Clearinghouse filing fee. Processing of your application cannot be completed until these documents are submitted.

** Note: CEQA requires that the State Water Board, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the State Water Board, Division of Water Rights.

19. WASTE/WASTEWATER

- a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation? YES NO
 If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):

See Attachment No. ____

- b. Will a waste discharge permit be required for your project? YES NO
 Person contacted: _____ Date of contact: _____
- c. What method of treatment and disposal will be used? _____

See Attachment No. ____

20. ARCHEOLOGY

- a. Have any archeological reports been prepared on this project? YES NO
- b. Will you be preparing an archeological report to satisfy another public agency? YES NO
- c. Do you know of any archeological or historic sites located within the general project area?
 YES NO If YES, explain:

See Attachment No. ____

21. ENVIRONMENTAL SETTING

Attach two complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the following three locations:

- Along the stream channel immediately downstream from the proposed point(s) of diversion.
- Along the stream channel immediately upstream from the proposed point(s) of diversion.
- At the place(s) where the water is to be used.
- See Attachment No. 6

SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the Streamflow Protection Standards review fee [Pub. Resources Code § 10005(a)], payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. If the application fees are not received, your application will not be accepted and will be returned to you. Please check the fee schedule for any fee changes prior to submitting the application.

DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

James C. Collier
Signature of Applicant

SE DIRECTOR WATER AND MGMT
Title or Relationship

12/01/08
Date

Signature of Co-Applicant (if any)

Title or Relationship

Date

Applications that are not completely filled out and/or do not have the appropriate fees will not be accepted. In the event that the Division has to return the application because it is incomplete, a portion of the application submittal fee will be charged for the initial review.

"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely.
- Number, label and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet.
- Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation.
- Include two complete sets of color photographs of the project site.
- Enclose a check for the required fee, payable to the Division of Water Rights.
- Enclose an \$850 check for the Streamflow Protection Standards review fee, payable to the Department of Fish and Game.
- Sign and date the application.

Send the original and one copy of the entire application to:

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000

Attachments to Accompany
Water Right Application
Gallo Glass Company
Twin Valley Ranch

Attachment #1

3. Project Description

This project consists of storage of water in an existing offstream pond, having a capacity of 253 acre-feet located on the Applicant's property. Water is used for irrigation, frost protection and heat control of 428 acres of existing vineyard (see location on Attachment 4). The vineyard on the requested place of use is partially covered by Water Right License 3697 (Application 10795), License 4216 (Application 14178), License 4729A (Application 13684A) and License 5559 (Application 13384). Concurrent Petitions are being filed on these licenses requesting that the place of use be changed to the same 428 acres.

The pond was built in 1996 and stores water that is diverted through an existing 12" diameter pipe from an existing offset well (Point of Diversion #1) located adjacent to the Russian River. The applicant purchased the property in 1995 and vineyard development was completed in 2004. No further development is requested pursuant to this Application.

The entire project, including the requested place of use, diversion facility, offstream storage facility and water distribution system is existing and fully developed and no further development is requested pursuant to this Application. The proposed project involves no changes relative to historical conditions. Accordingly, this Application qualifies for a Categorical Exemption under Title 14, California Code of Regulations, Section 15301, Existing Facilities, which states the following:

"Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination."

Based on the foregoing, we are requesting that the State Water Board grant a Categorical Exemption to this applications and proceed with further processing as necessary for issuance of a Permit.

Attachments to Accompany
Water Right Application
Gallo Glass Company
Twin Valley Ranch

Attachment #2

6. Water Availability

See separate attachment.

Attachment #3

7. Place of Use

<u>Use Within</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>B. & M.</u>	<u>Acres</u>	<u>Previously Cultivated</u>
✓ NE¼ of NE¼	24	T8N	R10W	M.D.	2	Yes
✓ SE¼ of NE¼	24	T8N	R10W	M.D.	1	Yes
✓ SW¼ of SW¼	17	T8N	R9W	M.D.	18	Yes
✓ SE¼ of SW¼	17	T8N	R9W	M.D.	4	Yes
✓ NW¼ of NW¼	19	T8N	R9W	M.D.	8	Yes
✓ NE¼ of NW¼	19	T8N	R9W	M.D.	4	Yes
✓ NE¼ of NE¼	19	T8N	R9W	M.D.	9	Yes
✓ SW¼ of NW¼	19	T8N	R9W	M.D.	8	Yes
✓ SE¼ of NW¼	19	T8N	R9W	M.D.	30	Yes
✓ SW¼ of NE¼	19	T8N	R9W	M.D.	9	Yes
✓ SE¼ of NE¼	19	T8N	R9W	M.D.	8	Yes
✓ NW¼ of SE¼	19	T8N	R9W	M.D.	19	Yes
✓ NE¼ of SE¼	19	T8N	R9W	M.D.	28	Yes
✓ SW¼ of SE¼	19	T8N	R9W	M.D.	19	Yes
✓ SE¼ of SE¼	19	T8N	R9W	M.D.	28	Yes
✓ NW¼ of NW¼	20	T8N	R9W	M.D.	36	Yes
✓ NE¼ of NW¼	20	T8N	R9W	M.D.	28	Yes
✓ NW¼ of NE¼	20	T8N	R9W	M.D.	22	Yes
✓ NE¼ of NE¼	20	T8N	R9W	M.D.	2	Yes
✓ SW¼ of NW¼	20	T8N	R9W	M.D.	18	Yes
✓ SE¼ of NW¼	20	T8N	R9W	M.D.	32	Yes
✓ SW¼ of NE¼	20	T8N	R9W	M.D.	33	Yes
✓ SE¼ of NE¼	20	T8N	R9W	M.D.	30	Yes
NE¼ of SW¼	20	T8N	R9W	M.D.	4	Yes
NW¼ of SE¼	20	T8N	R9W	M.D.	1	Yes
NE¼ of SE¼	20	T8N	R9W	M.D.	2	Yes
SW¼ of SW¼	20	T8N	R9W	M.D.	15	Yes
NW¼ of NE¼	30	T8N	R9W	M.D.	2	Yes
NE¼ of NE¼	30	T8N	R9W	M.D.	8	Yes
				<u>Total</u>	<u>428</u>	

Attachments to Accompany
Water Right Application
Gallo Glass Company
Twin Valley Ranch

Attachment #4

6. Map

See separate attachment.

Attachment #5

16.a. County Zoning Designations:

Sonoma County
Assessors Parcels

Zoning Designation

110-200-002	LEA - B6 - 100 - Z - F2 - VOH
110-200-004	LEA - B6 - 100 - Z - F2 - SR - VOH
110-200-007	RRDWA - B6 - 60 - BR - F1 - F2 - SR - VOH
110-200-008	LEA - B6 - 100 - SR
110-230-001	LEA - B6 - 100 - Z - VOH
110-230-003	LEA - B6 - 100 - Z - SR - VOH
110-230-008	LIA - B6 - 60 - F2 - SR - VOH

Attachment #6

12. Environmental Setting (Photographs)

See separate attachment.

**ATTACHMENT 2
to Water Right Application
by Gallo Glass Company**

Re: Section A, Item 6. WATER AVAILABILITY

California Water Code Section 1260(k) requires that every application for a permit to appropriate water shall include "sufficient information to demonstrate a reasonable likelihood that unappropriated water is available for the proposed appropriation." This narrative provides the required information.

The subject Application proposes to divert up to 253 acre-feet from the main stem Russian River to off-stream storage. The proposed season of diversion is October 1 to March 31, and the proposed rate of diversion is 3 cfs. The proposed point of diversion is located about 13,650 feet upstream of the USGS Gaging Station #11467000 Russian River Near Guerneville. The record of monthly mean flow for this gaging station for the period of Water Years 1940 through 2008 is attached. The average monthly recorded flow for the proposed season of diversion is reiterated below:

	Oct	Nov	Dec	Jan	Feb	Mar
Mean monthly flow, WY 1940 to 2008 (cfs)	295	1,100	4,160	6,850	6,810	4,540

On a monthly basis the mean monthly flow ranges from about 98 to 2,300 times the 3 cfs rate of diversion requested in the Application. Accordingly, there is a reasonable likelihood that unappropriated water is available for diversion.



USGS Home
 Contact USGS
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National Water Information System: Web Interface

USGS Water Resources

Data Category:
 Surface Water

Geographic Area:
 California

GO

News: [Recent changes](#)

USGS Surface-Water Monthly Statistics for California

The statistics generated from this site are based on approved daily-mean data and may not match those published by the USGS in official publications. The user is responsible for assessment and use of statistics from this site. For more details on why the statistics may not match, [click here](#).

USGS 11467000 RUSSIAN R NR GUERNEVILLE CA

Available data for this site Time-series: Monthly statistics

GO

Sonoma County, California Hydrologic Unit Code 18010110 Latitude 38°30'31", Longitude 122°55'36" NAD27 Drainage area 1,338 square miles Gage datum 20.14 feet above sea level NGVD29	Output formats <input type="checkbox"/> HTML table of all data <input type="checkbox"/> Tab-separated data <input type="checkbox"/> Reselect output format
--	--

00060, Discharge, cubic feet per second,												
YEAR	Monthly mean in cfs (Calculation Period: 1939-10-01 -> 2008-09-30)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1939										185.0	140.0	393.0
1940	7,539	14,240	7,681	3,365	621.0	229.1	141.8	103.2	161.5	211.1	305.2	9,916
1941	13,320	11,320	7,478	8,716	1,136	462.2	215.6	184.4	207.4	223.0	336.5	8,379
1942	7,821	13,300	2,370	4,448	1,301	541.2	234.1	158.0	137.4	155.4	665.6	2,986
1943	10,440	3,255	3,047	1,383	789.3	347.3	150.0	145.0	130.0	160.0	255.6	225.7
1944	1,206	4,266	4,215	703.4	475.6	300.0	138.0	122.0	122.0	164.2	1,146	2,564
1945	1,453	7,229	3,559	1,343	588.0	300.0	145.0	135.0	170.0	430.8	1,757	12,460
1946	4,681	2,054	1,465	1,091	375.9	192.0	118.6	107.8	122.9	140.0	531.9	1,177
1947	367.5	2,779	3,791	1,319	257.2	211.5	70.0	82.0	125.0	408.2	407.2	407.2
1948	2,230	850.8	2,771	6,847	1,980	506.9	151.0	132.1	173.9	189.0	211.6	837.5
1949	1,055	3,086	10,430	1,080	421.4	126.7	72.3	115.1	112.1	127.6	206.5	395.7
1950	3,974	6,507	2,148	1,330	547.2	156.4	107.7	105.1	156.6	730.7	3,171	9,113
1951	7,766	5,524	2,525	823.0	1,029	253.1	130.8	119.5	139.0	223.4	884.1	10,540

1952	13,370	6,673	5,380	1,348	668.6	344.0	216.4	230.7	204.4	201.2	204.8	8,585
1953	13,480	1,212	2,596	1,548	1,065	541.7	284.7	252.8	252.0	289.2	977.7	841.7
1954	7,252	5,659	4,386	3,980	864.0	331.0	151.3	165.0	256.3	328.6	1,197	3,318
1955	2,750	1,213	842.0	1,790	940.9	254.0	173.5	147.5	166.3	208.6	297.0	17,410
1956	16,640	11,710	2,666	1,019	787.5	292.5	163.9	158.8	191.4	245.8	320.2	183.3
1957	1,565	5,632	4,585	1,511	2,079	609.5	204.8	136.5	240.0	1,944	964.2	3,122
1958	6,554	26,020	8,502	9,898	857.5	481.3	222.6	172.0	207.0	257.7	265.8	165.9
1959	4,847	7,867	1,190	540.3	207.8	125.9	159.9	164.7	229.2	291.8	302.0	275.9
1960	1,172	8,869	5,024	1,266	581.9	257.0	166.8	152.2	220.3	232.9	473.8	3,475
1961	2,119	7,021	4,378	1,185	606.0	316.2	269.6	308.1	344.5	286.4	639.4	1,775
1962	1,038	12,600	6,134	733.2	305.2	126.8	121.6	151.7	163.9	2,515	705.5	3,552
1963	2,586	9,790	3,724	8,973	1,433	423.7	199.6	145.4	209.0	273.5	2,960	806.2
1964	4,905	1,360	870.5	421.4	169.5	139.2	157.9	151.6	162.5	199.0	1,698	12,840
1965	12,470	1,827	760.8	3,996	777.8	327.1	214.0	239.7	226.2	242.9	2,630	2,934
1966	10,240	5,717	2,285	929.0	432.0	152.2	161.1	176.1	201.2	222.1	2,314	6,547
1967	9,984	3,960	5,200	5,986	1,493	681.0	248.7	217.9	289.7	339.6	287.1	1,170
1968	5,682	6,559	3,838	812.3	223.9	151.0	168.0	191.2	155.5	199.2	337.6	6,491
1969	18,270	13,710	4,408	1,242	652.8	300.7	195.1	189.1	168.9	234.4	330.8	7,550
1970	25,210	6,292	3,436	582.2	196.4	189.3	188.8	197.6	154.9	180.5	2,165	11,730
1971	7,571	1,077	3,614	1,631	632.4	300.0	161.9	180.3	174.7	194.8	201.1	1,382
1972	1,617	2,315	1,559	952.2	383.6	166.2	160.3	178.1	189.4	367.4	2,284	3,326
1973	16,110	10,240	4,371	1,049	366.0	177.1	194.4	205.1	195.2	402.1	9,425	7,611
1974	12,430	2,892	11,130	5,737	777.2	311.4	215.2	228.8	319.4	362.5	310.6	974.1
1975	1,124	12,400	10,430	1,771	736.9	286.8	169.4	168.1	237.3	388.7	386.0	530.7
1976	299.6	501.9	943.4	774.7	150.8	149.6	146.1	144.1	141.2	151.5	163.4	116.0
1977	127.0	88.2	201.4	48.2	39.0	22.6	32.0	36.7	35.9	25.3	982.0	3,649
1978	16,690	10,120	6,205	2,892	808.9	315.7	186.6	166.8	173.6	139.9	245.5	231.8
1979	3,154	6,314	3,595	1,379	876.6	206.6	131.4	154.1	147.5	366.1	2,164	4,785
1980	11,470	12,030	4,030	1,291	564.2	245.5	161.9	157.1	140.2	177.8	182.2	1,640
1981	5,339	3,389	2,881	854.9	239.0	114.2	168.5	153.5	144.0	229.1	6,121	11,360
1982	9,438	8,116	5,484	11,700	1,019	409.7	179.4	183.0	173.2	250.3	2,937	8,252
1983	11,760	14,750	23,290	5,956	2,798	533.0	244.8	193.0	217.5	220.6	6,361	15,050
1984	3,624	2,959	2,231	1,145	455.7	114.1	141.3	133.1	131.5	171.2	3,586	2,071
1985	1,073	2,857	2,047	904.6	230.8	179.7	143.6	133.1	181.3	197.5	409.3	1,552
1986	4,001	25,130	9,277	1,031	437.4	263.1	242.6	228.1	272.9	234.4	572.6	358.1
1987	936.8	3,127	4,572	610.5	309.0	258.8	347.6	258.1	172.4	208.5	311.8	3,911
1988	6,612	1,127	447.9	383.9	298.3	164.0	148.7	136.6	148.7	160.7	585.9	895.5
1989	1,259	508.0	7,337	1,324	428.7	217.4	182.5	191.4	238.0	428.9	381.2	307.4
1990	2,308	2,150	937.4	230.7	759.7	526.5	171.2	170.0	118.5	158.7	294.0	183.5
1991	145.1	297.1	9,291	1,242	393.8	151.0	140.0	156.4	131.2	129.7	179.0	327.0
1992	845.0	6,998	3,041	899.1	283.1	197.3	208.5	187.0	181.3	214.9	278.9	3,242

1993	15,250	8,882	3,052	1,689	871.3	875.1	297.5	219.9	191.9	371.7	365.4	1,326
1994	1,417	3,999	869.9	359.4	223.0	142.4	138.7	141.4	136.2	112.6	462.4	1,262
1995	25,220	4,893	18,280	3,865	2,338	425.8	242.4	196.2	206.0	173.8	234.8	3,432
1996	7,666	12,550	5,898	1,866	1,256	429.0	202.5	183.7	191.6	255.3	544.7	8,392
1997	18,920	2,838	1,014	538.6	315.3	199.0	183.0	191.4	182.2	199.2	1,083	1,915
1998	11,340	26,940	4,872	3,231	1,964	1,418	350.3	200.8	270.0	278.6	1,025	1,895
1999	2,133	11,190	5,645	2,911	621.1	285.4	180.8	210.5	208.2	192.5	485.5	594.1
2000	2,384	10,740	4,851	1,076	528.4	251.6	191.1	175.5	185.6	213.9	295.4	364.3
2001	1,203	4,625	3,012	385.2	217.2	112.4	104.7	106.6	146.1	134.7	1,516	7,594
2002	7,537	1,828	1,475	666.8	387.0	191.4	144.2	151.6	152.9	158.3	295.9	11,370
2003	7,470	2,116	2,569	3,710	2,796	442.1	240.9	208.3	183.8	179.5	330.1	6,158
2004	5,313	12,640	2,697	686.0	352.9	228.6	171.5	109.3	111.9	228.7	354.8	3,674
2005	5,124	2,497	5,482	2,586	2,675	760.7	293.4	194.9	176.9	185.5	356.1	9,500
2006	14,220	4,541	12,100	11,300	1,196	377.8	209.6	158.0	133.7	163.7	325.5	1,615
2007	603.8	5,419	1,729	552.7	263.5	94.0	121.3	93.3	121.4			
2008			1,159					136.7	150.0			
Mean of monthly Discharge	6,850	6,810	4,540	2,340	777	312	181	166	180	295	1,100	4,160
** No Incomplete data have been used for statistical calculation												

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Title: Surface Water data for California: USGS Surface-Water Monthly Statistics
URL: <http://waterdata.usgs.gov/ca/nwis/monthly/>



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Site Map for California

USGS 11467000 RUSSIAN R NR GUERNEVILLE CA

Available data for this site Site map

Sonoma County, California Hydrologic Unit Code 18010110 Latitude 38°30'31", Longitude 122°55'36" NAD27 Drainage area 1,338 square miles Gage datum 20.14 feet above sea level NGVD29	
Location of the site in California.	Site map.
ZOOM IN <u>2X</u> , <u>4X</u> , <u>6X</u> , <u>8X</u> , or ZOOM OUT <u>2X</u> , <u>4X</u> , <u>6X</u> , <u>8X</u> .	
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Title: NWIS Site Inventory for California: Site Map

URL: <http://waterdata.usgs.gov/ca/nwis/nwismap?>



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