

Date: _____

WATER MEASUREMENT STAFF GAGE/OPEN CHANNEL REPORT FORM

WATER RIGHT OWNER'S NAME: _____
 WATER RIGHT NO(S): _____
 LOCATION: _____
 USER INFORMATION: _____
 MEASUREMENTS REQUIRED: _____
 TYPE OF DEVICE USED: _____

A DATE	B TIME	C STAFF GAGE READING	D FLOW RATE	E VOLUME USED IN PERIOD**	F TOTAL VOLUME USED
		Check one: <input type="checkbox"/> FEET <input type="checkbox"/> INCHES	Check one: <input type="checkbox"/> CFS <input type="checkbox"/> GPM	Check one: <input type="checkbox"/> AF <input type="checkbox"/> GAL	Check one: <input type="checkbox"/> AF <input type="checkbox"/> GAL
G. \cong TOTAL VOLUME USED THIS YEAR					
Check one: <input type="checkbox"/> AF <input type="checkbox"/> GAL					
H. \cong TOTAL VOLUME USED THIS YEAR IN AF					
(Conversion: 1 AF = 325,851 gallons)					

WATER MEASUREMENT OPEN CHANNEL REPORT FORM INSTRUCTION SHEET FOR VOLUME CALCULATION

COLUMN A & B - DATE & TIME: Record the date and time the staff gage was read.

COLUMN C – STAFF GAGE READING: Enter the height of the water shown on the staff gage. Circle whether the height is in feet or inches.

COLUMN D – FLOW RATE: Find the staff gage reading in the appropriate rating table and enter the flow rate found. Circle whether the flow is CFS or GPM.

COLUMN E - VOLUME USED (AF): The volume diverted during a period of time can be calculated from the average flow rate and the period of time that water is diverted. Use the following formulas to determine the VOLUME USED IN PERIOD.
 Flow in CFS X Period of Operation in Hours X 0.0825 = Volume in Acre-Feet
 Flow in GPM X Period of Operation in Hours X 60 = Volume in Gallons
 Flow in GPM X Period of Operation in Hours X 0.00018 = Volume in Acre-Feet

COLUMN F – TOTAL VOLUME USED: Add the VOLUME USED IN PERIOD, Column E, in the same row to Column F, TOTAL VOLUME USED THIS YEAR in the space just above where you are working. (Example shown below: 27.8 + 36.6 = 64.4)

LINE G: TOTAL VOLUME USED THIS YEAR: Enter the last figure shown in Column F.

LINE H: TOTAL VOLUME USED THIS YEAR IN AF: If the total volume at the end of the season is in gallons, convert this number to acre-feet (Example: 10,439,000 / 325,851 GAL = 32.0 AF) and enter this number Line H.

A DATE	B TIME	C STAFF GAGE READING	D FLOW RATE	E VOLUME USED IN PERIOD**	F TOTAL VOLUME USED
		Check one: <input checked="" type="checkbox"/> FEET <input type="checkbox"/> INCHES	Check one: <input checked="" type="checkbox"/> CFS <input type="checkbox"/> GPM	Check one: <input checked="" type="checkbox"/> AF <input type="checkbox"/> GAL	Check one: <input checked="" type="checkbox"/> AF <input type="checkbox"/> GAL
6/10/94	10:00	.37	2.5		
6/16/94	14:00	.46	3.50	36.6	36.6
6/20/94	8:00	.64	4.00	27.8	64.4
G. ≅ TOTAL VOLUME USED THIS YEAR					64.4
Check one: <input checked="" type="checkbox"/> AF <input type="checkbox"/> GAL					
H. ≅ TOTAL VOLUME USED THIS YEAR IN AF					64.4
(Conversion: 1 AF = 325,851 gallons)					

CALCULATIONS

06/10/94 TO 06/16/94

Time: (6 days X 24 hr/day) + 4 hr = 148 hr
 Avg. Flow: (2.50 CFS + 3.50 CFS) / 2 = 3.00 CFS
 Volume: 3.00 CFS X 148 hr X 0.0825 = 36.6 AF
 Total Volume: 0.0 AF + 36.6 AF = 36.6 AF

06/16/94 TO 06/20/94

Time: (3 days X 24 hr/day) + 18 hr = 90 hr
 Avg. Flow: (3.50 CFS + 4.00 CFS) / 2 = 3.75 CFS
 Volume: 3.75 GPM X 90 hr X 0.0825 = 27.8 AF
 Total Volume: 36.6 AF + 27.8 AF = 64.4 AF