

Why does DWR use different conversion numbers from USGS? Compare converting CFS to gallons per day

1 cfs = 646,320 gallons per day per DWR
1 cfs = 646,272 gallons per day per USGS

difference of 48 gallons per day
difference of 48,000 gallons per day when computing millions of gallons per day
difference of 17,520,000 gallons over one year period

Conversion Factors

<http://www.water.ca.gov/swp/operationscontrol/docs/annual/annual01.pdf>

Quantity	Multiply	By	To obtain
Area	acre	43,560	square feet
Volume	cubic foot	7.481	gallons
	cubic foot	62.4	pounds of water
	gallon	0.13368	cubic feet
	acre-foot	325,900	gallons
	acre-foot	43,560	cubic feet
	million gallons	3.07	acre-feet
Flow	cubic foot/second (cfs)	450	gallons/minute (gpm)
	gallons/minute	0.002228	cubic feet/second (cfs)
	million gallons/day	1.5472	cubic feet/second (cfs)
	cubic foot/second (cfs)	646,320	gallons a day
	cubic foot/second (cfs)	1.98	acre-feet a day
	million gallons/day (mgd)	1,120	acre-feet a year
	Pressure	feet head of water	.433
Power	kilowatts (kW)	1.3405	horsepower (hp)

http://md.water.usgs.gov/cfscalculator/

USGS CFS Conversion Calculator

Convert to

CFS Value (ft³/s)

Result:

Conversion factors for cfs calculations: 1 cfs =

7.48	gallons per second
448.8	gallons per minute
26,928	gallons per hour
646,272	gallons per day
28.32	liters of water per second
1,699.2	liters of water per minute
101,952	liters of water per hour
2,446,848	liters of water per day
2.446848	million liters of water per day
0.646272	million gallons per day
62.5	pounds of water per second
3,750	pounds of water per minute
225,000	pounds of water per hour
5,400,000	pounds of water per day

close this window

http://ks.water.usgs.gov/waterwatch/flood/conv.html

Conversion from Cubic Feet Per Second (ft³/s)

NOTE: This conversion is approximate due to rounding. To see the actual conversion factors, go to [the conversion values](#) section of this page.

First, select the units you want to convert to:

Second, enter the cfs value to convert from:

ft³/s:

Result:

Please use Netscape or Internet Explorer

Conversion factors for the above calculations:

1 ft³/s =

1.9835	acre-feet per day
7.48	gallons per second
448.8	gallons per minute
26,928	gallons per hour
646,272	gallons per day
28.32	liters of water per second
1,699.2	liters of water per minute
101,952	liters of water per hour
2,446,848	liters of water per day
2.446848	million liters of water per day
.646272	million gallons per day (Mgal/d)
62.5	pounds of water per second
3,750	pounds of water per minute
225,000	pounds of water per hour
5,400,000	pounds of water per day