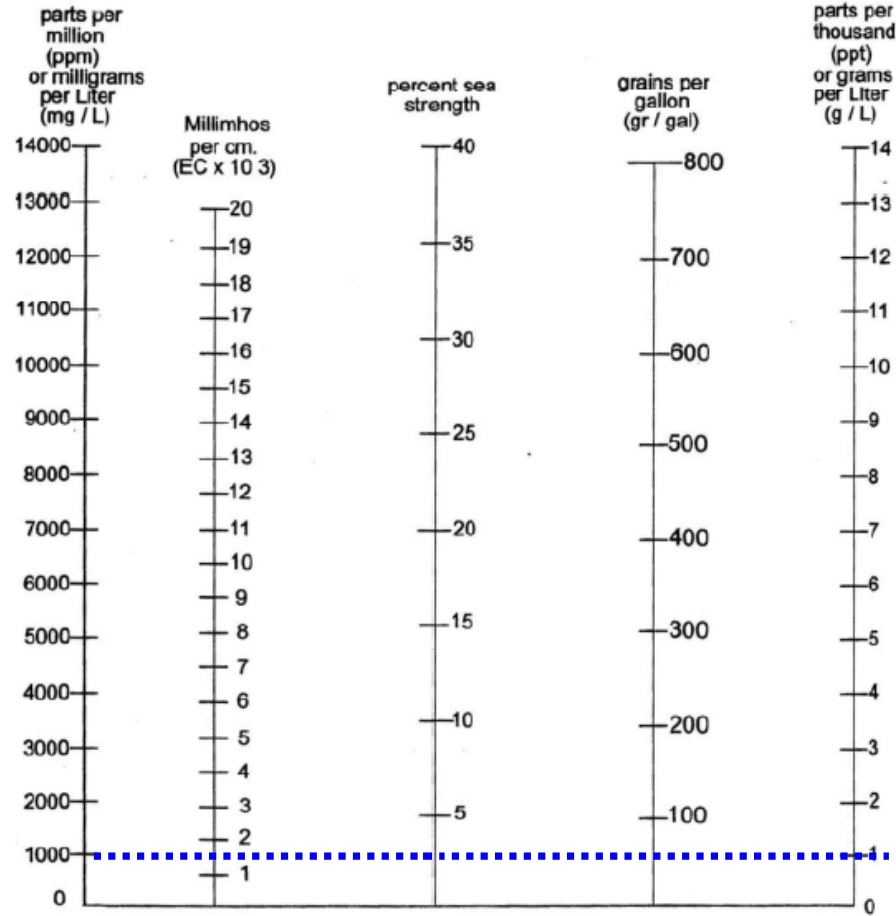


SHR-368

Salinity Conversion Table



Millimhos and MilliSiemens are equivalent terms.

Sea water is approximately 35 parts per thousand, or 52 millimhos per cm.

1 cubic yard = 27 cubic feet

1 square yard = 9 square feet

1 acre = 43,560 square feet or 4,840 square yards

1 gallon = .133 cubic feet

1 acre foot = 327,518 gallons *

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1. Is EC projected to raise above 1 ppt on Steamboat Slough at monitoring station SXS in a Dry Year, Critical Dry year or average year if Waterfix were operational?

2. If you have less gallons of fresh water flow moving downstream, when the tide changes and higher salinity water come in with the tide, what stops the higher salinity at Rio Vista from pushing up into Steamboat Slough? Lower Sacramento River at the SOI monitoring station?

Maximum level of salinity prior to CVP and SWP per historical records

Q: Does 1 cubic foot/second equal 646,320 OR 646,272 gallons a day?

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

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

Conversion Factors

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	pounds/square inch (psi)
Power	kilowatts (kW)	1.3405	horsepower (hp)

http://www.deltarevision.com/it_depends_on_who_is_counting.html

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

USGS CFS Conversion Calculator

Convert to

CFS Value (ft³/s)

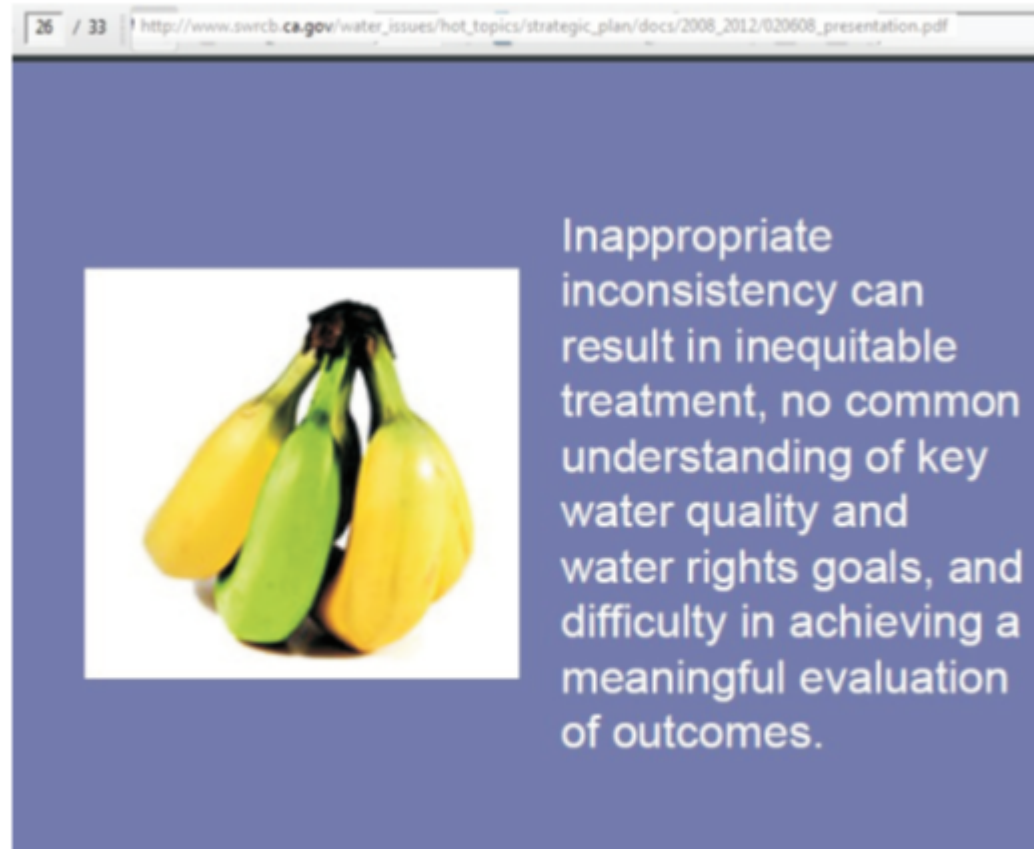
Result:

Conversion factors for cfs calculations: 1 cfs =


7	,48	gallons per second
448	,8	gallons per minute
26,928	,0	gallons per hour
646,272	,0	gallons per day
28	,32	liters of water per second
1,699	,2	liters of water per minute
101,952	,0	liters of water per hour
2,446,848	,0	liters of water per day
2,446,848	,0	million liters of water per day
0	,646272	million gallons per day
62	,5	pounds of water per second
3,750	,0	pounds of water per minute
225,000	,0	pounds of water per hour
5,400,000	,0	pounds of water per day

close this window

Does one acre-foot equal 327, 518 gallons or 325,900 gallons? Which conversion chart was used to develop CalSim and DSM2 baseline numbers?



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Inappropriate inconsistency can result in inequitable treatment, no common understanding of key water quality and water rights goals, and difficulty in achieving a meaningful evaluation of outcomes.

Does use of different conversion numbers for different studies done by DWR constitute inappropriate inconsistency? If gallons or cfs are being over estimated and exports underestimated, is that inappropriate inconsistency?