

Adjudication Water Conversion Table Guide

GPM= Gallons per minute	CFS = Cubic feet per second	AF = Acre-feet
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1 Cubic foot of water equals.....7.48	Gallons
1 AF of water equals.....	1 foot of water on 1 acre
.....325,851	Gallons
.....43,560	Cubic feet
1 CFS equals.....448.8	GPM
.....1.98	AF per day
.....40	Miner's inches
1 GPM equals.....1,440	Gallons per 24 hour day
.....1.61	AF per year
1 Surface acre equals.....size of area in square feet ÷ 43,560	

QUICK CONVERSIONS

MI × 11.22 = GPM	CFS × 40 = MI	
MI ÷ 40 = CFS	CFS × 448.8 = GPM	
MI × .0495 = AF/DAY	CFS × 1.98 = AF/DAY	
GPM ÷ 11.22 = MI	AF/DAY ÷ 1.98 = CFS	
GPM ÷ 448.8 = CFS	AF/DAY × 226.27 = MI	

GENERAL WATER REQUIREMENTS

DOMESTIC USE

1 family – up to 5 people...1.5 AF/YR	1 acre shelter belt...2.50 AF/season
1 acre lawn & garden.....2.50 AF/season	

STOCKWATER USE

An animal unit (AU) is a measurement of livestock numbers. **A cow and calf pair is one animal unit.** Weaned animals are counted as one unit each

$$\frac{AU's \times 30 \text{ gal} \times \text{Days}}{325,851 \text{ gal}} = \text{AF per year}$$

1 Buffalo	1.5 AU	2 Ostrich	1 AU	50 Geese	1 AU
1 Horse	1.5 AU	3 Llamas	1 AU	50 Ducks	1 AU
1 Dairy Cow	1.5 AU	3 Pigs	1 AU	100 Turkeys	1 AU
1 Beef Cow	1 AU	5 Deer	1 AU	100 Rabbits	1 AU
1 Elk	1 AU	5 Sheep	1 AU	300 Chickens	1 AU
2 Emus	1 AU				