

EQUIVALENTS & DEFINITIONS TABLE

Water Terms

Amount	Rate	Equivalents
1 acre-foot 1(a/f) covers 1 acre 1 foot deep		42,560 cubic feet 325,900 gallons .25 a/f to .3 = typical usage by a family of 4 for 1 year ¹
	per year or per annum (a/f/a)	
1cubic foot (c/f)		7.48 gallons 62.4 pounds
	per second (c/f/s)	450 gallons per minute (g/p/m)
1c/f/s	per 24 hours	646,320 gallons per day (g/p/d) 1.983 a/f
	per 30 days	59.5 a/f
	per year	724 a/f
1 million gallons		3.07 a/f
	per 24 hours or per day (m/g/d)	1,120 a/f/a
1 thousand gallons	per minute (g/p/m)	2.23 c/f/s
	per minute per day	4.42 a/f

1 The state engineer designates, in regulations, the amount of water that will be permitted for domestic use. Until 2005, the amount was stated as no more than 3 a/f/a. In 2005, the amount was amended to an amount of no more than 1 a/f/a. Permits can be further limited which are found on the backside of a permit. The 1 a/f limitation provides plenty of water for household use, as the amount currently used statewide per household usually falls between one-third (105,200 gallons) and one-quarter (81,500 gallons) of an acre-foot per year. On average, a New Mexico household accounts for 67 gallons per person per day, which is 97,552 gallons per year (excluding use of swamp coolers) for a family of four.

http://www.seo.state.nm.us/water_info_rights_rules_domestic_wells.html

a/f/y = quantity of water measured by amount of water necessary to cover 1 acre (a) 1 foot deep (f) each in 1 year (y).

3.0 acre feet = 977,553 gallons

1.0 acre foot = 325, 851 gallons

0.5 acre foot = 162,925.5 gallons

According to the Office of the State Engineer, the average NM family of 4 uses between .25 to .33 a/f/y.