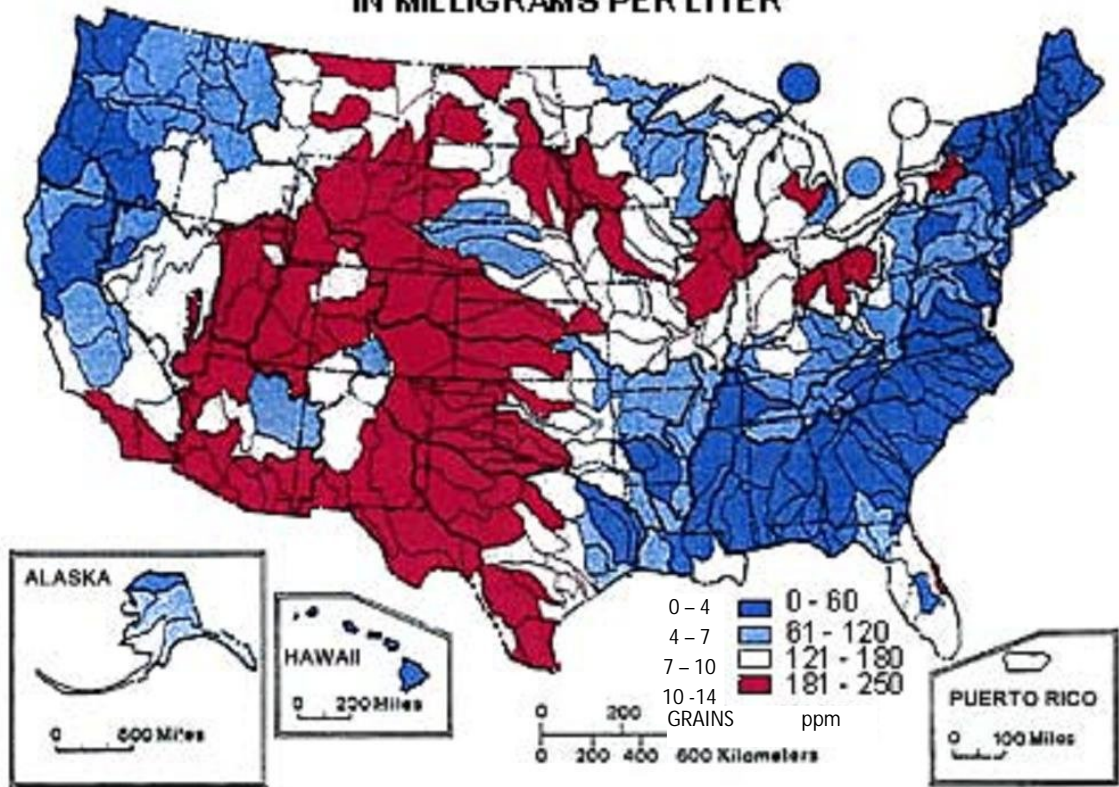


**CONCENTRATION OF HARDNESS AS CALCIUM CARBONATE,  
IN MILLIGRAMS PER LITER**



NOTE: Please read text in following page.

## WATER HARDNESS TABLE and US WATER HARDNESS MAP

You will see scientific tables describing hardness between 0 and 12 GPG or expressed in PPM of CaCO<sub>3</sub> between 0 and 250 ppm. The sad reality is that as water hardness is increasing nationwide, there are many locations in the country where hardness is above 22 grains, and sometimes 35 and up to 45 GPG.

For example: In Santa Barbara County the water tests at 25 to 38 grains per gallon with areas in Ventura and Oxnard at 26 - 45. This puts them about 3 - 4 times the national level for "very hard water". Santa Clarita CA, where salt based softeners are illegal, has hardness of about 28 grains and climbing.

In Arizona water hardness ranges between 18 and 22 grains per gallon.

Typical Hardness Classification:

<b>Water Hardness</b>	as PPM or mg/lt
	CaCO <sub>3</sub>
Soft	0-20
Moderately Soft	20-60
Moderately Hard	61-120
Hard	121-180
<b>VERY HARD</b>	>180

Below is a more realistic table to cover actual hardness values of US waters:

Water Hardness	CaCO <sub>3</sub> mg/l	Grains per Gallon
	ppm	GPG
Soft	0-20	0-1
Moderately Soft	20-60	1 to 4
Moderately Hard	61-120	4 to 7
Hard	121-200	7 to 12
Very Hard	201 to 300	12 to 18
Extremely Hard	301 to 400	18 to 24
Extra Hard	401 to 650	24 to 38
Super Extra Hard	651 to 750	38 to 45
Unclassified	above 750	above 45

Note: The only available US Water Hardness Map only considers hardness up to 14 grains, while 18 to 22 grains and up is a common occurrence.