

Bru'n Water v1.36bus-3.xls [Read-Only] [Compatibility Mode] - Microsoft Excel non-commercial use

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Bru'n Water

Water Profile Adjustment Calculator

Hover cursor over cells w/ red triangles to display helpful comments

Link to Bru'n Water website for updates and to donate

Desired Water Profile

Pale Ale Profile

Existing Water Profile

Dilution Water Profile

RO Water

Dilution Percentage

Diluted Water Profile

Target Water Adjustment (ppm)

Actual Water Adjustment (ppm)

Finished Water Profile

Total Water Additions

Water Additions

Mineral

Acid

Most mineral additions should be added to both the mash water and sparge water. DO NOT add alkalinity producing minerals such as chalk, baking soda, or pickling lime to sparge water since that counteracts the desired sparge water acidification. Either reserve those minerals from the sparge water and add directly to the kettle, or delete them and substitute other calcium or sodium containing minerals to make up for their contributions. Do not use the acid amount calculated for Mash Adjustment from this sheet for the Sparge Water adjustment. Use the acid amount calculated on the Sparge Acidification sheet for Sparge Water. Add acid prior to heating the water.

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	Calcium (ppm)	Magnesium (ppm)	Sodium (ppm)	Sulfate (ppm)	Chloride (ppm)	Bicarbonate (ppm)	Cations (meq/L)	Anions (meq/L)	Total Hardness (ppm)	Alkalinity (ppm)	RA (ppm)	SO ₄ /Cl Ratio	Approximate Color (Densitically 100 units)
Desired Water Profile	140.0	10.0	25.0	300.0	55.0	110.0	9.0	9.0	424	91	-20	5.5	Yellow: under 6 SRM
Existing Water Profile	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0	1	1	0.0	Amber: 7 to 17 SRM
Dilution Water Profile	1.0	0.0	0.0	1.0	4.0	16.0	0.4	0.4	3	13	13		Brown: 18 to 30 SRM
RO Water	1.0	0.0	0.0	1.0	4.0	16.0	0.4	0.4	3	13	13		Black: over 31 SRM
Dilution Percentage	100	128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Diluted Water Profile	1.0	0.0	0.0	1.0	4.0	16.0	0.4	0.4	3	13	13	0.3	
Target Water Adjustment (ppm)	139.0	10.0	25.0	299.0	51.0	94.0	9.2	9.2	422				
Actual Water Adjustment (ppm)	139.0	10.0	25.0	299.0	51.0	94.0	9.2	9.2	422				
Finished Water Profile	140.0	10.0	25.0	300.0	55.0	110.0	9.0	9.0	424	91	-20	5.5	

	Addition (grams/gal)	Calcium (ppm)	Magnesium (ppm)	Sodium (ppm)	Sulfate (ppm)	Chloride (ppm)	Bicarbonate (ppm)	Total Mineral Additions (grams)	Total Mineral Additions (grams)
Gypsum (CaSO ₄)	2.27	139.5			304.7			12.1	9.5
Epsom Salt (MgSO ₄)	0.00		0.0		0.0			0.0	0.0
Canning Salt (NaCl)	0.16			16.0		25.6		0.9	0.7
Baking Soda (NaHCO ₃)	0.00			0.0		0.0	0.0	0.0	Not Recommended
Calcium Chloride (CaCl ₂)	0.00	0.0				0.0	0.0	0.0	0.0
Chalk (CaCO ₃)	0.00	0.0				0.0	0.0	0.0	Not Recommended
Pickling Lime (Ca(OH) ₂)	0.00	0.0				0.0	0.0	0.0	Not Recommended
Magnesium Chloride (MgCl ₂)	0.57		10.0			52.5		3.0	2.4

	Addition (mL/gal)	Strength	80.0	%	Sulfate (ppm)	Chloride (ppm)	Bicarbonate (ppm)	Total Acid Addition (mL)	Total Acid Addition (mL)
Lactic	0.00	Strength	80.0	%	0.0	0.0	0.0	0.0	See Sparge Sheet