

Bru'n Water

[Link to Bru'n Water website for updates and to donate](#)

Water Adjustment Summary

Hover cursor over cells w/ red corner marks to display helpful information

Pale Ale Profile	Calcium (ppm)	Magnesium (ppm)	Sodium (ppm)	Sulfate (ppm)	Chloride (ppm)	Bicarbonate (ppm)
Existing Water Profile	0	0	0	0	0	0
Mashing Water Profile	167	20	25	276	56	29
Recommended Ranges	40 to 150	0 to 30	0 to 150	0 to 350	0 to 100	as needed

Mash Parameters			
Batch Volume (gallons)	12.0	Hardness (ppm as CaCO3)	499
Estimated Mash pH	5.31	Alkalinity (ppm as CaCO3)	24

Additions	Total Mash Water Vol (gal)		8.0	Total Sparge Water Vol (gal)		4.0
	Mash Dilution Vol (gal)		0.0			
	Mash Water Additions			Sparge Water Additions		
Minerals	(grams)			(grams)		
Gypsum (CaSO4 x 2H2O)	10.8			5.4		
Calcium Chloride (CaCl2)	2.6			1.3		
Epsom Salt (MgSO4 x 7H2O)	6.0			3.0		
Magnesium Chloride (MgCl2)	0.0			0.0		
Canning Salt (NaCl)	0.0			0.0		
Baking Soda (NaHCO3)	2.8			Not Recommended		
Chalk (CaCO3)	4.0			Not Recommended		
Pickling Lime (Ca(OH)2)	0.0			Not Recommended		
Acids						
Phosphoric 10.00 %	88.0 (ml)					
Phosphoric 10.00 %				0.0 (ml)		

Total Volume

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Bru'n Water v. 1.21

If the sheet does not show comments or red corner marks, select the REVIEW tab in the Excel program menu and click the SHOW ALL COMMENTS!

= Tap Volume + Dilution Volume

S button twice.