Grain Bill Input

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

Enter data into Light Blue cells, Yellow cells display calculated results, Pink cells contain selection boxes

Grains	Grain Type	Quantity (lb)	Quantity (oz)	Color (L)	Percentage of Grain Bill	
MARIS OTTER	Base Malt	16.9	0.0	3	73.5	
VICTORY	Base Malt	2.5	0.0	25	10.8	
BROWN	Crystal Malt	1.1	0.0	65	4.6	
CARAFA II	Roast Malt	0.5	0.0	415	2.0	
PALE CHOCOLATE	Roast Malt	0.6	0.0	225	2.6	
CARA 60	Crystal Malt	1.5	0.0	60	6.5	
	Base Malt	0.0	0.0	2	0.0	
	Base Malt	0.0	0.0	0	0.0	
	Base Malt	0.0	0.0	0	0.0	
	Base Malt	0.0	0.0	0	0.0	
Enter grain names above to help	Base Malt	0.0	0.0	0	0.0	
verify that all the grist is entered	Base Malt	0.0	0.0	0	0.0	
	Total Grist Weight (lbs)	23.0	!	39.7		
Wat	1.35	E	20.1			
Malt Color Setting	Lovibond					
Water used for Mash	Adjusted Water					

Mash pH Result

Estimated Room-Temperature Mash pH 5.50

Mash pH Guidance Suggested mash pH range for lighter colored beers is 5.3 to 5.4 Suggested mash pH range for darker colored beers is 5.4 to 5.6 Tart or crisp beer styles may benefit from a mash pH range of 5.2 to 5.3

Bru'n Water v. 1.24

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Bru'n Water

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

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Water Profile Adjustment Calculator

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

Desired Water Profile	Calcium (ppm)	Magnesium (ppm)	Sodium (ppm)	Sulfate (ppm)	Chloride (ppm)	Bicarbonate (ppm)	Approximate Color Descriptors for Water Profiles				
Brown Full	50	5	27	50	60	85	Yellow: under 6 SRM				
Existing Water Profile	0	0	0	0	0	0	Amber: 7 to 17 SRM				
Dilution Water Profile	Brown: 18 to 30 SRM										
RO Water	1	0	8	1	4	16	Black: over 31 SRM				
Percent Dilution Water	0	0	oz/gal	0	pt/gal	< These conversions are provided for your convenience					
Diluted Water Profile	0	0	0	0	0	0					
Target Finished Water Adjustment (ppm)		50	5	27	50	60	85				
Actual Finished Water	50	0	87	52	51	200					
Mashing Water Profile		50	0	87	52	51	200				

								Total Water Additions				Total Batch	
Estimated Mash pH	5.50	This pH value is NOT VALID until the grain information is properly entered for the beer on the Grain Bill Input sheet.						Ma	sh	Sparge		Volume	
Water Additions								Water Volume (gal)	7.75	Water Volume (gal)	12.25	Water Volume (gal)	13.50
Minerals	Addition (gram/gal)	Calcium (ppm)	Magnesium (ppm)	Sodium (ppm)	Sulfate (ppm)	Chloride (ppm)	Bicarbonate (ppm)	Total Mineral Additions (grams)		Total Mineral Additions (grams)			
Gypsum (CaSO ₄ x 2H ₂ O)	0.35	21.5			51.6			2.7		4.3			
Calcium Chloride (CaCl ₂)	0.30	28.6				50.6		2.3		3.7			
Epsom Salt (MgSO ₄ x 7H ₂ O)	0.00		0.0		0.0			0.0		0.0			
Magnesium Chloride (MgCl ₂ x 6H ₂ O)	0.00		0.0			0.0		0.0		0.0			
Canning Salt (NaCl)	0.00			0.0		0.0		0.0		0.0			
Baking Soda (NaHCO ₃)	1.20			86.8			230.3	9.3		Not Recommended			
Chalk (CaCO ₃)	0.00	0.0					0.0	0.0		Not Recommended			
Pickling Lime (Ca(OH) ₂)	0.00	0.0					0.0	0.0		Not Recommended			
Acids	Addition					Bicarbonate (ppm)							
Mash	(mL/gal)	Mash Acid Strength parameters are entered below					Total Acid Addition (ml)						
Lactic	0.00	Strength	88.0	%	0.0	0.0	0.0	0.	0				
Sparge Sparge Acid Strength parameters are entered on the Sparge Acidication sheet									Total Acid	Addition (ml)			
Lactic		Strength	88.0	%	0.0	0.0				0.	0		

Bru'n Water v 1.24

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 Authentifrom this sheet for the Sparge Water adjustment. Use the acid amount calculated on the Sparge Acidification sheet for Sparge Water. For best result, add acids prior to heating the water since heating can drive off a portion of the alkalinity that the acid addition was calculated for remove.

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Input Custom Water Profiles at the bottom of the Table below
All Water Profiles are User customizable