EXTRACT CALCULATION & CORRECTION

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PREDICTED SPECS FROM RECIPE:		DEFINTIONS	DEFINTIONS:		
			avity in Specific Gravity Units (SG)		
Assumed Efficiency		Example: 1.	040		
Target Original Gravity		GU = Gravity Unit Examples:	s. 1.040 SG = 40 GUs, 1.100 = 100 GUs		
Mash Thickness	qt/lb	Extract GU Values			
Sparge Rate	qt/lb	Corn Sugar37 GU/lb			
Pre-Boil Volume	gal		46 GU/lb		
Post-Boil Volume	_ gal	Liquid Malt Extract35 GU/lb Honey32 GU/lb			
Boil Length	min				
Evaporation Rate	gal/hr				
	eer Vol in Gal)				
B X _	(Pre-boil SG in GU)	Total GUs in Ke	ettle		
(Vol in Kettle)	(Pre-boil SG in GU)				
C. (A. Total GU Req'd) - (B	B. Total GU in Kettle)	GU Differential	1		
¹ Positive numbers indicate that the post-boil OG will be low, negative numbers indicate that the post-boil OG will be high.					
CORRECTING FOR A LOW GRAVITY: OPTION 1: ADDING ADDITIONAL FERMENTABLES : = Weight Required (lbs)					
(Added Fermentable Name)	(C. GU Differential) (Ex	tract GU/lb)	Weight Nequired (ibs)		
OPTION 2: REDUCING FINAL VOLUME					
	=(Corrected Volume (ga	al)		
(B. Total GU in Kettle) (Target	OG in GU)				
(Corrected Vol in Gal) (Pl	anned Vol in Gal\	Hop Scale Fac	tor ²		
(Corrected Vol in Gal) = Hop Scale Factor ² (Planned Vol in Gal)					
² Multiply each hop addition by this factor to get a reduced weight to be added that is proportional to the recipe's original hop additions.					
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³ Adjusted hop additions should still be added at the appropriate time, i.e. the 60 min addition still goes in with 60 min left in the boil.

CORRECTING FOR A HIGH GRAVITY:

OPTION 1: REPLACING WORT IN THE KETTLE WITH WATER (DILLUTION)

(C. Inverse GU Differential)	(Sample SG in GU)	Volume of Wort to R	eplace with Water (gal)
,	,		
OPTION 2: INCREASING	G FINAL WORT VOLUME		
(B. Total GU in Kettle)	(Target SG in GU)	Revised Final Target V	olume (gal)
(Corrected Volume in Gal)	(Planned Volume in Gal)	Hop Scale Factor ⁴	
,	this factor to get an increased weight to be	added that is proportional to the rea	ine's original ban additions
Multiply each nop addition by t	this factor to get an increased weight to be	e added that is proportional to the rec	ipe's original nop additions.
-) +	= Ne	w Pre Boil Volume (gal)
(Revised Vol in Gal) (P	lanned Vol in Gal) + (Recipe Pre B	oil Vol in Gal)	(34)
CALCULATE BRE	WHOUSE EFFICIENCY	:	
D	(Assumed Efficiency as a Decimal)	_ = Potential G	GU
(A. Total GU Req'd)	(Assumed Efficiency as a Decimal)		
E.	÷=	Extract Efficiency	
(B. Total GU in Kettl	(D. Potential GU)	•	
BREWDAY STATS: POST FERMENTATION STATS:			
Davis Data			
Brew Date		Packaging Date	
	(mash temp / room temp)	·	\$G
	ml		%
	(mash temp / room temp)	Alcohol _	% ABV
	ml	Primary Fermentation _	days
Sparge Water pH *	(sparge temp / room temp)	Average Temperature _	°F
Boil Length _	min	Yield into Packaging	gallons
Active Whirlpool Time _	min		
Whirlpool Rest	min	* For pH values measured at mash temps add 0.3 to compare with room temp ranges. Target 5.2-5.4 room temp mash pH.	
Temp From Heat Exchanger _	°F	tomp ranges. ranger o.2 c. r rec	m tomp maon prii.
Yeast Pitch Temperature	°F		
Oxygenation Time	seconds		
Yield into Fermenter	gallons		
Original Gravity	SG		
Fytract Efficiency (E)	0/		

Temperature Log:

Date	Time	Temperature	Notes