## BREWSHEET v2.0 (2010-06-17)

Batch				
Brew Name:	For Peat's Sake Sm	oked Porter		
Bottle Top Code:	Calories	per Pint: 175		
Estimated OG:	1.053 Actual O	G: 1.052		
Estimated FG:	1.013 Actual FO	G: 1.018		
Estimated IBU:	40 Actual IB	U: 43		
Estimated SRM:	31 Actual SF			
Brew Date:	09/18/10 Collected	(gal): 5.20		
Rack Date:	10/03/10 Racked (	gal):		
Bottle Date:	10/03/10 Bottled (d	(al): 5.00		

Grain	Pounds	Potential	SG Share	Color	% Bill
Pale Malt (2-Row) US	4.75	1.036	0.023	2.0	42.22%
Rauch malt	3.25	1.037	0.016	4.0	28.89%
Peated malt	1.00	1.038	0.005	5.0	8.89%
De-bittered black malt	0.50	1.030	0.002	413.0	4.44%
Caramel/Crystal 40L	0.50	1.034	0.002	40.0	4.44%
Caramel/Crystal 60L	0.50	1.034	0.002	60.0	4.44%
Chocolate Malt	0.50	1.028	0.002	350.0	4.44%
Flaked oats	0.25	1.033	0.001	2.2	2.22%

Нор	Alpha %	Ounces	Boil Time	IBU	% Bill
Fuggle (US)	5.1%	1.25	60	19.5	38.46%
Fuggle (US)	5.1%	0.75	30	9.0	23.08%
Willamette	4.8%	0.25	30	2.8	7.69%
Kent Golding	7.2%	0.50	30	8.5	15.38%
Fuggle (US)	5.1%	0.25	2	0.3	7.69%
Willamette	4.8%	0.25	2	0.3	7.69%

Essentially	a really smoky (and especially peaty) porter.
The goal is	to have it reminiscent of the Laphroaig 10 y.o. Islay single malt scotch.
50# bag of	2-row pale was slightly light so instead of 5.5 lb I could only use 4.75 lb.
That may	affect the smoke/peat; adjusted hop schedule accordingly.
Didn't quite	hit my mash-in temp of 152 so went with 151.
First runnin	igs refrac = 14.1 (1.058).
Second rur	nnings refrac = 6.8 (1.027).
Preboil refr	ac = 10.6 (1.043).
Collected r	efrac = 12.4 (1.050).
I think the t	emp of my samples need to be <115F for accuracy in SG readings.

	BJCP Style Guidelines	
Style:	Robust Porter	
Code:	12B	
OG:	1.048-1.065	
FG:	1.012-1.016	
IBU:	25.0-50.0	
SRM:	22.0-35.0	
ABV:	4.8-6.0%	
CO2:	1.8-2.5	

Brewing				
Batch Size (gal):	5.50 Estimated First Runnings (gal):	4.12		
Total Grain Weight (lbs):	11.25 Desired Sparge Temperature (F):	17		
Grain Temperature (F):	81 Sparge Water (gal):	3.6		
Mash Ratio (qts/lb):	1.30 Sparge Water Temperature (F):	18		
Mash/Lauter Deadspace (gal):	0.25 Estimated Preboil Volume (gal):	7.7		
Total Water Needed (gal):	9.42 Boil Time (min):	9		
Desired Mash Temperature (F):	151 Evaporation Rate (%):	139		
Strike Water (gal):	3.66 Estimated Evaporation Loss (gal):	1.5		
Strike Temperature (F):	165 Trub Loss (gal):	0.7		
Grain Absorption (gal):	1.41 Volume Left in Kettle (gal):	0.0		
Mash-out Temperature (F):	150 Actual Evaporation Rate (%):	199		
Mash-out Water (gal):	2.12 Actual Evaporation Loss (gal):	2.3		

Gallons: Date Checked:

Brewhouse: Batch Size: Into Boiler:

Into Fermenter:

Efficiency

73% 71% 88% 67%

Gravity		Collections	
Potential OG:	1.073	First Runnings (gal):	4.40
OG:	1.049	SG of First Runnings:	1.046
OG Temperature (F):	83	SG Temperature (F):	129
Corrected OG:	1.052	Corrected SG:	1.059
SG at Racking:		Second Runnings (gal):	3.85
SG Temperature (F):		SG of Second Runnings:	1.012
Corrected SG:		SG Temperature (F):	148
FG:	1.016	Corrected SG:	1.030
FG Temperature (F):	76	Estimated Preboil SG:	1.045
Corrected FG:	1.018	Preboil Volume (gal):	8.25
Potential ABV (%):	7.0%	SG of Preboil Volume:	1.034
Actual ABV (%):	4.5%	SG Temperature (F):	114
IBU to Gravity Ratio:	0.83	Corrected SG:	1.043

Diacetyl Rest		Carbonation	
Target Fermentation Completion:	75%	CO2 Volume:	2.20
Target SG for Diacetyl Rest:	1.023	Bottling Temperature (F):	
•		Priming Sugar (oz):	
Fermentation		DME (oz):	
CO2 Released During Fermentation (g):	661.50	Forced Carbonation (lbs):	

Notes
09/30: 1.017 SG; nice smoke that gets more pronounced in the aftertaste.
Not too much peat, so maybe next time omit the smoke or reduce it and seriously increase the peat.
10/03: smoke more pronounced now.
10/14: Nice carbonation in the keg, although a little low; nice smoke and peat; the toast comes in
the aftertaste along with the biting bitterness.

Yeast Strain		
Yeast Strain:	White Labs WLP007 (English Ale)	
Type:	English Ale	
Attenuation (%):	70-80%	
Actual Attenuation (%):	66%	
Fermentation Temp (F):	65-70F	
Flocculation:	medium-high	

Yeast Amounts	
Cell Count (billions):	204
Vials (White Labs/Wyeast):	1.7
Dry Yeast (g):	10
Starter Volume (mL):	1000
DME Required (oz)	3.50
Vials Required (w/ Starter):	1.6

	ON BREW DAT
Heat 3.66 gallons	of strike water to 165F
Add grain and mas	sh at 151F for 60 minutes
Mash-out with 2.12	gallons at 210F, mix and hold for 10 minutes
orlauf and collect	first runnings (approx. 4.12 gallons)
Add 3.64 gallons a	t 183F to lauter tun and sparge
orlauf and collect	second runnings (approx. 3.64 gallons)
Boil for a total of 9	0 minutes with the following hop schedule:
1.25 oz. Fuggle	(US) @60 minute(s)
0.75 oz. Fuggle	(US) @30 minute(s)
0.25 oz. Willam	ette @30 minute(s)
0.5 oz. Kent Go	olding @30 minute(s)
0.25 oz. Fuggle	(US) @2 minute(s)
0.25 oz. Willam	ette @2 minute(s)

Extra Variables

12 oz. Bottles Required: Primary Fermentation Temp. (F): Secondary Fermentation Temp (F):

ON BREW DAY
leat 3.66 gallons of strike water to 165F
dd grain and mash at 151F for 60 minutes
Mash-out with 2.12 gallons at 210F, mix and hold for 10 minutes
'orlauf and collect first runnings (approx. 4.12 gallons)
dd 3.64 gallons at 183F to lauter tun and sparge
'orlauf and collect second runnings (approx. 3.64 gallons)
loil for a total of 90 minutes with the following hop schedule:
1.25 oz. Fuggle (US) @60 minute(s)
0.75 oz. Fuggle (US) @30 minute(s)
0.25 oz. Willamette @30 minute(s)
0.5 oz. Kent Golding @30 minute(s)
0.25 oz. Fuggle (US) @2 minute(s)
0.25 oz. Willamette @2 minute(s)

			Sumn	nary
For Peat'	s Sake	Smoked	Porter	
Batch Siz	e: 5.50	) gal (?	7.76 gal	preboil)
Estimated	OG: 1.	.053 SG	(actual:	1.052 SG
Estimated	FG: 1.	013 SG	(actual:	1.018 SG
Estimated	IBUs:	40 (Tir	seth; ac	tual: 43)
Estimated	Color	31 SRM	(actual	: 32 SRM)
D	mee: -:		720 /	-1. 7101

Batch Size: 5.50 gai (/./6 gai preboil)
Estimated OG: 1.053 SG (actual: 1.052 SG)
Estimated FG: 1.013 SG (actual: 1.018 SG)
Estimated IBUs: 40 (Tinseth; actual: 43)
Estimated Color: 31 SRM (actual: 32 SRM)
Brewhouse Efficiency: 73% (actual: 71%)
Boil Time: 90 minutes
Grains:

# Grains: 4.75# Pale Malt (2-Row) US (42.22%) 3.25# Rauch malt (28.89%) 1.00# Peated malt (8.89%) 0.50# De-bittered black malt (4.44%) 0.50# Caramel/Crystal 60L (4.44%) 0.50# Caramel/Crystal 60L (4.44%) 0.25# Flaked oats (2.22%)

# Hops: 1.25 oz Fuggle (US) (5.1%) @60 min 0.75 oz Fuggle (US) (5.1%) @30 min 0.25 oz Willamette (4.8%) @30 min 0.50 oz Kent Golding (7.2%) @30 min 0.25 oz Fuggle (US) (5.1%) @2 min 0.25 oz Willamette (4.8%) @2 min

Yeast: White Labs WLP007 (English Ale) (English Ale)

Mash/Sparge Schedule: Single Infusion, 151F; Batch Sparge Mash for 60 min at 151F w/ 3.66 gal of water at 165F Mashout w/ 2.12 gal of water at 210F; hold for 10 min Batch sparge w/ 3.64 gal of water at 183F; hold for 10 min

### Fermentation Schedule:

Primary Fermentation: 15 days @66F Secondary Fermentation: 0 days @66F