

Original Recipe by:
Alan Turken

HOMEBREW SUMMER

HOME BREW MART
INGRAINED SINCE 1992



CA DREAMIN – CA COMMON

BREW DAY

Stage/Time	Type	Qty	Name	%AA	%IBU
Mash Target pH: 5.3	Grain	3 lb	Briess Pale Ale Malt	-	48.8%
		1.75 lb	GW Pilsner Malt	-	28.5%
		0.6 lb	Briess Crystal 40L	-	9.8%
		0.5 lb	Weyer. Munich Type I	-	8.1%
		0.3 lb	Briess Victory Malt	-	4.9%
Boil/60min	Hop	0.3 oz	Warrior	13.1%	20.9
Boil/10min	Hop	0.75 oz	Northern Brewer	7.5%	14.5
	Fining	1 tablet	Whirlfloc	-	-
	Nutrient	½ tsp	Yeast nutrient	-	-
Whirlpool	Hop	0.5 oz	Northern Brewer	7.5%	3.6



California Common (19B)

Original Gravity: 1.048 – 1.054 SG

Final Gravity: 1.011 – 1.014 SG

Bitterness: 30 – 45 IBUs

ABV: 4.5 – 5.5%

SRM: 10 - 14

Overall Impression: A lightly fruity beer with firm, grainy malteness, interesting toasty and caramel flavors, and showcasing rustic, traditional American hop characteristics.

FERMENTATION AND BEYOND

Stage	Type	Qty	Name	Notes
Pitch	Yeast	1 pkg	WLP810 San Fran. Lager	58-65°F

TARGET STATS

Batch Size	5 gal
OG	1.050
FG	1.007
~%ABV	5.6
%Efficiency	72
IBU	39
SRM	12.5

BREW NOTES

Mash Temp	150°F
Mash Duration	60 min
Boil Volume	3.75 gal
Boil Duration	60 min
Whirlpool Temp	190°F
Whirlpool Time	10 min

Notes

pH can play an important role in the final flavor in any beer. For this recipe we highly recommend measuring and adjusting the pH at the mash. You can gently reduce the pH by adding small doses (0.5 ml) of 88% Lactic Acid.

Whirlpool duration and temperature can make a difference with the final bitterness of a beer. With this recipe, add your hops while the wort is still hot and allow to steep for 10 minutes before starting the cooldown.

QUICK BREWING INSTRUCTIONS

MASH	Mashing is the process of soaking milled, malted barley in hot water to convert starch into fermentable sugars. The success of this process is measured as percent efficiency and is reliant on maintaining the appropriate temperature and water to grain ratio of 1.25 quarts per pound of grain. 1. Measure out your water for mash and heat to your strike temperature. 2. Turn off the heat and line your boil pot with your grain bag. 3. Slowly add your grain, constantly stirring to break up dough balls and consistent mixture. 4. Check that your temperature is on target and seal the pot 5. While you wait for the mash to finish, begin heating your water for the sparge.	<table><tr><th colspan="2">Mash Targets</th></tr><tr><td>Mash Water</td><td>2 gal</td></tr><tr><td>Strike Temp</td><td>161°F</td></tr><tr><td>Mash Temp</td><td>150°F</td></tr><tr><td>Duration</td><td>60 min</td></tr></table>		Mash Targets		Mash Water	2 gal	Strike Temp	161°F	Mash Temp	150°F	Duration	60 min				
Mash Targets																	
Mash Water	2 gal																
Strike Temp	161°F																
Mash Temp	150°F																
Duration	60 min																
LAUTER & SPARGE	Once the starch conversion is complete, the liquid (“sweet wort”) needs to be separated (“lautered”) from the grain which then needs to be rinsed (“sparged”) to extract as much sugar as possible. 1. Measure out your sparge water and heat to 168°F. 2. Remove the grain bag from the pot and place in a cooler or bucket ideally with a spigot. 3. Position your kettle below this bucket or pot. 4. Pour your sparge water into the bucket with your grain bed and stir, giving the grain a rinse, but keeping it in the grain bag. 5. Reset your grain bed by partially opening the valve on the bucket and use 2 pitchers or large measuring cups to catch the stream that begins to flow; you’ll notice a lot of small particles floating in the wort. As each pitcher fills, replace it with an empty one and pour the full pitcher gently back into the mash tun. Continue doing this until your wort is relatively free of particles. 6. With bucket and kettle in place, mash complete, and grain bed set, it’s time to start transferring into the kettle. 7. Once the target boil volume is reached in the kettle you can turn off valves and stop the flow into the kettle. Start heating up to a boil.	<table><tr><th colspan="2">Sparge Targets</th></tr><tr><td>Volume</td><td>2.5 gal</td></tr><tr><td>Temp</td><td>168°F</td></tr></table> <table><tr><th colspan="2">Boil Targets</th></tr><tr><td>Volume</td><td>3.75 gal</td></tr><tr><td>Duration</td><td>60 min</td></tr><tr><td>Pre-Boil SG</td><td>1.046</td></tr></table> Note: The mash water calculated above assumes no deadspace below the grain. If you are using an all-in-one system and your mash seems especially thick, you may need to add more water to compensate.		Sparge Targets		Volume	2.5 gal	Temp	168°F	Boil Targets		Volume	3.75 gal	Duration	60 min	Pre-Boil SG	1.046
Sparge Targets																	
Volume	2.5 gal																
Temp	168°F																
Boil Targets																	
Volume	3.75 gal																
Duration	60 min																
Pre-Boil SG	1.046																
BOIL & COOLDOWN	The purpose of your boil is 1) to sanitize, 2) to extract bitterness (alpha acids) from hops, and 3) to break down particulates for a clearer finished product. 1. As your wort nears the boil, be prepared to turn down the heat or add foam control to prevent boil-overs. 2. Once you reach a steady rolling boil, add your first boil addition and start your timer counting down to the next addition (i.e. if it’s a 60 min boil and your next addition is at the 15 min mark, start your timer for 45 minutes). Add all other additions at their appropriate times. 3. Sanitize all other equipment that will contact your wort after the boil. 4. If you’re using an immersion chiller, attach tubes and submerge in pot at the 15 min mark to sanitize. 5. Once your full boil time has elapsed, it’s time to start the cooldown. Start running water through your immersion chiller. The outgoing water will be steaming hot, so be sure the outflow is directed somewhere safe. 6. If the spigot on your kettle draws from the side, you can benefit from a whirlpool step: a. Remove your wort chiller and use a sanitized metal spoon to rapidly stir your cooled wort to create a whirlpool. The hop sediment and other hot break material will be sucked to the center of the pot. If you then allow it to settle undisturbed for 10-15 minutes, that sediment will sink to the bottom in a more easily avoidable area. You can then rack (transfer) the clear wort from the spigot or using a racking cane, leaving that sediment behind. 7. Once cooled to fermentation temperature, whirlpooled, and allowed to settle, it’s time to rack into your sanitized fermentor.	60MIN	• 0.3 oz Warrior														
		10 MIN	• 0.75 oz Northern Brewer • Wort Chiller • Clarifier & Nutrient														
		WHIRLPOOL	Add at 190°F and steep for 10 min • 0.5 oz Northern Brewer														
PITCH	Adding your yeast is what changes the liquid in your fermentor from “wort” to “beer.” 1. Sanitize the exterior of the yeast package as well as any tools used to open it. 2. Add your yeast to the fermentor and seal with an airlock and stopper—being sure to fill the airlock to the appropriate mark with sanitizing solution. 3. Store in a cool dark place for the duration of fermentation.	WLP810 San Francisco Lager Yeast Ferment at 58 – 65°F															