COMPARE BREWING, DISTILLING, & WINE MAKING

		BEER	SPIRITS	WINE
MALT		Grain is soaked in water, germinated, and dried to prepare for brewing.	This step in distilling is used only certain types of spirits such as whiskey.	Made from grapes during the harvest season.
MILL	Ö ^o	Crushing the grain prepares it for mashing.	Crushing the grain prepares it for mashing.	Although not considered "milling" at this phase the grapes are de-stemmed and crushed.
MASH		Milled grain is combined with water and heat is applied to activate the enzymes, allowing the starch to be chopped into a short grain sugar (called wort).	Heat is applied to a mix of grain known as the "grain bill" (typically malted barley with suppleme grains such as corn, sorghum, rye, or wheat) is combined with water - known as "liquor".	entary
LAUTER		Wort (sugars) are separated from the grain to dilute the alcohol content to meet the recipe requirements.	The sugar is diluted to meet the recipe requirements.	
BOIL		This step is for sterilizing the wort (malt extracts) and hops are added to gain different characteristics.		
FERMENT		Yeast is added to the wort to begin the fermentation process.	Different variables are added to begin the fermentation process, for example Brandy starts with fruit, and rum uses molasses.	Yeast is added to the grapes to begin the fermentation process. Wine is aged in barrels.
DISTILLATION			Distilling means that the liquid is evaporated and re-condensed.	
FILTER		The filtration process is done cold so the protein molecules clump together and are easier to filter out.	Filtering is sometimes performed depending on the spirit.	After aging, wine is cleared and filtered.
BOTTLE		Additives such as sugar to make beer fizzy are added during the bottling process.	Some additives may be used during the bottling process.	Some additives may be added to keep wine from turning to vinegar.
UTILITIES & WATER USE		Steam, water, and gas is measured and controlled.	Water quality parameters are measured.	Steam, water, and gas is measured and controlled.
		60% + OVERLAP APPLICAT	IN THE THREE IONS PROCESSES dBeverageMeasurement	 PART OF PROCESS NOT A PART OF PROCESS EMERSON.