

# Hop Chart

Hop	Origin	Use	Alpha Acid % Range	Hop Substitute
B.C. Goldings	Canada, U.S.	flavor, aroma	4-7%	English Kent Goldings
Brambling Cross	U.K., Canada	primarily aroma, occasional bittering	5-7%	English Kent Goldings
Brewers Gold	U.S., U.K., Germany	bittering	6-10%	Bullion, Northern Brewer
Bullion	U.S., U.K.	bittering	6-11%	Brewers Gold, Northern Brewer, Galena
Cascade	U.S.	bittering, flavor, aroma, dry hop	4-8%	Centennial
Centennial	U.S.	bittering, aroma, dry hop	9-11%	Cascade
Challenger	U.K.	bittering, flavor, aroma	6-9%	Northern Brewer (bittering)
Chinook	U.S.	bittering	11-14%	Brewers Gold, Nugget
Cluster	U.S.	bittering	5-9%	Chinook, Galena
Columbus	U.S.	bittering	12-16%	Erica
Crystal	U.S.	aroma	2.5-4.5%	German Hallertau Hersbrucker, Hallertauer Mittelfrüh
Czech Saaz	Czechoslovakia	flavor, aroma, dry hop	2.5-5.5%	U.S. Saaz, Lublin
Erica	U.S.	bittering	9-13%	Brewers Gold
First Gold	U.K.	flavor, aroma	6.5-8.5%	East Kent Goldings
Fuggles	U.K., U.S.	flavor, aroma	3.5-5.5%	Willamette or Kent Goldings
Galena	U.S.	bittering	10-14%	Brewers Gold, Bullion
Hallertau	Germany	bittering, flavor, aroma	2.3-5%	Hallertauer Mittelfrüh
Hersbrucker	U.S.	flavor, aroma	3.5-4.5%	German Hallertau Hersbrucker
Hallertau	U.S.	flavor, aroma	3.5-5.5%	Hallertau Hersbrucker
Hallertauer Mittelfrüh	Germany	bittering, flavor, aroma	3.5-5.5%	Hallertau Hersbrucker
Kent Goldings	U.K.	flavor, finishing, dry hop	4-7%	B.C. Goldings, Fuggles
Liberty	U.S.	aroma	2.5-6%	Hallertauer Mittelfrüh, Crystal
Lublin	Poland	flavor, aroma	3-6%	Czech Saaz
Mt. Hood	U.S.	flavor, aroma	3-6%	Hallertauer Hersbrucker, Mittelfrüh
Northdown	U.K.	bittering, flavor, aroma, dry hop	8-11%	Northern Brewer
Northern Brewer	Germany, U.S., U.K.	bittering, flavor, aroma	7-10%	Northdown
Nugget	U.S.	bittering	10-14%	Chinook
Orion	Germany	bittering	6-7.5%	Northern Brewer
Omegg	U.K.	bittering	9-13%	Northdown
Perle	Germany, U.S.	flavor, aroma	6-8%	Hallertauer Mittelfrüh (do not use in Pilsners)
Pride of Ringwood	New Zealand	bittering	8-12%	Galena
Progress	U.K.	flavor, aroma	5-7.5%	Fuggles
Spalt	Germany, U.S.	bittering, flavor, aroma	3-6%	Czech Saaz
Strisselspalt	France	aroma	2.5-4%	Hallertau Hersbrucker
Styrian Goldings	Slovenia	bittering, flavor, aroma	4.5-7.5%	Fuggles
Target	U.K.	bittering	8-10%	Northdown, Yeoman
Tetnanger	Germany, U.S.	bittering, flavor, aroma	3-6.5%	Spalt, Czech Saaz
Ultra	U.S.	aroma	2-4%	Czech Saaz
U.S. Saaz	U.S.	aroma	2-4%	Fuggles
Whitbread Golding	U.K.	flavor, aroma	4.5-7.5%	Fuggles
Willamette	U.S.	flavor, aroma	3.5-6%	Columbus
Yakima Magnum	U.S.	bittering	14-15%	Northdown, Target
Yeoman	U.K.	bittering	6.5-8%	Northdown, Target