

<b>Hop Variety</b>	<b>Possible Substitutes</b>
Admiral	Target, Northdown, Challenger
Ahtanum	Amarillo, Centennial, Simcoe
Amarillo	Cascade, Centennial, Summit, Ahtanum
Boadicea	Cascade(?), I'm not sure...
Brewers Gold	Bullion, Chinook, Galena, Nugget
Bullion	Columbus, Northern Brewer
Cascade	Amarillo, Centennial, Summit
Centennial	Amarillo, Cascade, Columbus, Summit
Challenger	Perle, Admiral
Chinook	Brewers Gold, Columbus, Galena, Nugget, Northern Brewer, Eroica
Cluster	Galena, Eroica
Columbus	Magnum, Chinook, Northern Brewer, Warrior, Millennium, Bullion
Crystal	Mt. Hood, Liberty, Hallertauer, Tettnanger, Strisselspalt
E.K. Goldings	Fuggles, Progress, First Gold
Eroica	Galena
First Gold	E.K. Goldings
Fuggles	Willamette, Styrian Golding, Tettnanger, Newport
Galena	Brewers Gold, Nugget, Cluster, Chinook, Eroica, Newport
Glacier	Willamette, Fuggles, Tettnanger, Styrian Goldings
Hallertau	Liberty, Tettnanger, Mt. Hood, Vangaurd, Tradition
Horizon	Magnum
Liberty	Hallertau, Tettnanger, Mt. Hood, Crystal, Ultra
Lublin	Saaz, Sterling
Magnum	Horizon, Newport
Marynka	Northern Brewer(?)
Millennium	Nugget, Columbus
Mt. Hood	Hallertauer, Liberty, Crystal, Strisselspalt
Northern Brewer	Nugget, Chinook, Columbus, Bullion, Perle, Styrian Aurora
Newport	Galena, Nugget, Fuggles, Magnum
Northdown	Admiral, Challenger
Nugget	Cluster, Galena, Brewers Gold, Warrior, Eroica, Target, Millennium
Perle	Challenger, Northern Brewer
Premiant	?
Progress	Fuggles, E.K. Goldings
Saaz	Sladek, Lublin, Sterling, Ultra, Vangaurd
Santiam	Tettnanger, Spalt, Liberty, Hallertau
Saphir	?
Simcoe	Northern Brewer (?)
Sladek	Saaz, Lublin
Spalt	Santiam, Liberty, Tettnanger, Hallertau
Sterling	Saaz, Lublin

Strisselspalt	Mt. Hood, Crystal
Styrian Aurora	Northern Brewer
Styrian Goldings	Fuggle, Willamette
Summit	Amarillo, Cascade
Target	Nugget, Fuggle, Willamette, Admiral
Tettnanger	Hallertau, Liberty, Fuggle
Tradition	Hallertauer
Ultra	Liberty, Hallertau, Saaz
Vangaurd	Saaz, Hallertauer
Warrior	Nugget, Columbus
Willamette	Styrian Golding, Target, Fuggle, Tettnanger, Glacier