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HOW TO BREW

## Hop Substitutions

What do you do when you are unable to find a hop variety online or at your local homebrew shop? Hopefully you're not throwing in the proverbial towel!

Many hop varieties can be used instead of hard to obtain hops with great success.

All of the hop substitutions suggested below were provided by YCH Hops. All hop varieties are domestic (USA) unless labeled otherwise.

Use the following key to help identify hop variety origins:

**AUS** – Australia

**CZE** – Czech

**DEU** – Germany

**FRA** – France

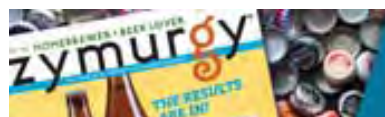


**GBR** – Great Britain

**NZL** – New Zealand

**POL** – Poland

**SVN** – Slovenia



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Hop Variety	Possible Hop Substitution
<b>Admiral</b> (GBR)	<ul style="list-style-type: none"> <li>• Northdown (GBR)</li> <li>• Target (GBR)</li> <li>• Challenger (GBR)</li> </ul>
<b>Ahtanum</b>	<ul style="list-style-type: none"> <li>• Cascade</li> </ul>
<b>Amarillo</b>	<ul style="list-style-type: none"> <li>• Cascade</li> <li>• Centennial</li> <li>• Simcoe</li> </ul>
<b>Aramis</b> (FRA)	<ul style="list-style-type: none"> <li>• Centennial</li> <li>• Chinook</li> <li>• Hallertau</li> <li>• Tettnang</li> </ul>

Hop Variety	Possible Hop Substitution
<b>Bitter Gold</b>	<ul style="list-style-type: none"> <li>• Galena</li> <li>• Nugget</li> </ul>
<b>Bramling Cross</b> (GBR)	<ul style="list-style-type: none"> <li>• East Kent Golding (GBR)</li> <li>• Progress (GBR)</li> </ul>
<b>Bravo</b>	<ul style="list-style-type: none"> <li>• Columbus</li> <li>• Magnum</li> <li>• Nugget</li> </ul>
<b>Brewer's Gold</b>	<ul style="list-style-type: none"> <li>• Chinook</li> <li>• Galena</li> <li>• Nugget</li> </ul>
<b>Brewer's Gold</b> (DEU)	<ul style="list-style-type: none"> <li>• Galena</li> <li>• Northern Brewer</li> <li>• Northdown (GBR)</li> </ul>
<b>Bullion</b>	<ul style="list-style-type: none"> <li>• Brewer's Gold</li> <li>• Chinook</li> <li>• Columbus</li> <li>• Galena</li> <li>• Northern Brewer</li> </ul>
<b>Cascade</b>	<ul style="list-style-type: none"> <li>• Ahtanum</li> <li>• Amarillo</li> <li>• Centennial</li> </ul>
<b>Centennial</b>	<ul style="list-style-type: none"> <li>• Cascade</li> <li>• Chinook</li> <li>• Columbus</li> </ul>

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**[WATCH: American Hops: From Soil to Serve]**

<b>Challenger</b> (GBR)	<ul style="list-style-type: none"> <li>• Northern Brewer</li> <li>• Perle (DEU)</li> </ul>
<b>Chelan</b>	<ul style="list-style-type: none"> <li>• Galena</li> <li>• Nugget</li> </ul>
<b>Chinook</b>	<ul style="list-style-type: none"> <li>• Columbus</li> <li>• Northern Brewer</li> <li>• Nugget</li> </ul>

<b>Citra</b>	<ul style="list-style-type: none"> <li>• Galaxy (AUS)</li> <li>• Taurus (DEU)</li> </ul>
<b>Cluster</b>	<ul style="list-style-type: none"> <li>• Galena</li> </ul>
<b>Columbia</b>	<ul style="list-style-type: none"> <li>• Fuggie</li> </ul>
<b>Columbus</b>	<ul style="list-style-type: none"> <li>• Chinook</li> <li>• Galena</li> <li>• Millennium</li> <li>• Nugget</li> </ul>
<b>Comet</b>	<ul style="list-style-type: none"> <li>• Galena</li> <li>• Summit</li> </ul>
<b>Crystal</b>	<ul style="list-style-type: none"> <li>• Hallertau</li> <li>• Liberty</li> <li>• Mt. Hood</li> <li>• Strisselpalt (FRA)</li> <li>• Hersbrucker (DEU)</li> </ul>
<b>East Kent Golding (GBR)</b>	<ul style="list-style-type: none"> <li>• Golding</li> <li>• Progress (GBR)</li> </ul>
<b>Eroica</b>	<ul style="list-style-type: none"> <li>• Brewer's Gold</li> <li>• Galena</li> <li>• Glacier</li> <li>• Bullion</li> </ul>
<b>First Gold (GBR)</b>	<ul style="list-style-type: none"> <li>• Crystal</li> <li>• East Kent Golding (GBR)</li> </ul>
<b>Fuggie</b>	<ul style="list-style-type: none"> <li>• Willamette</li> <li>• Fuggie (GBR)</li> <li>• Styrian Savinjski Golding (SVN)</li> </ul>
<b>Fuggie (GBR)</b>	<ul style="list-style-type: none"> <li>• Fuggie</li> <li>• Wilamette</li> <li>• Styrian Savinjski Golding (SVN)</li> </ul>
<b>Galaxy (AUS)</b>	<ul style="list-style-type: none"> <li>• Citra</li> </ul>
<b>Galena</b>	<ul style="list-style-type: none"> <li>• Brewer's Gold</li> <li>• Columbus</li> <li>• Nugget</li> </ul>

<b>Glacier</b>	<ul style="list-style-type: none"><li>• Fuggle</li><li>• Willamette</li><li>• Styrian Savinjski Golding (SVN)</li></ul>
<b>Golding</b>	<ul style="list-style-type: none"><li>• Fuggle</li><li>• Willamette</li><li>• East Kent Golding (GBR)</li><li>• Styrian Savinjski Golding (SVN)</li></ul>
<b>Green Bullet (NZL)</b>	<ul style="list-style-type: none"><li>• Fuggle</li><li>• Willamette</li></ul>

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**[LISTEN: Hopy Sour Beers: Taking the Bitter Out of IPA]**

<b>Hallertau</b>	<ul style="list-style-type: none"><li>• Liberty</li><li>• Mt. Hood</li><li>• Hallertau Mittelfruh (DEU)</li><li>• Magnum (DEU)</li><li>• Merkur (DEU)</li><li>• Taurus (DEU)</li><li>• Tradition (DEU)</li></ul>
<b>Hallertau Mittelfruh (DEU)</b>	<ul style="list-style-type: none"><li>• Liberty</li><li>• Vanguard</li><li>• Tradition (DEU)</li></ul>
<b>Helga (AUS)</b>	<ul style="list-style-type: none"><li>• Hallertau</li></ul>
<b>Hersbrucker (DEU)</b>	<ul style="list-style-type: none"><li>• Mt. Hood</li><li>• Strisselpalt (FRA)</li></ul>
<b>Horizon</b>	<ul style="list-style-type: none"><li>• Magnum</li></ul>
<b>Liberty</b>	<ul style="list-style-type: none"><li>• Hallertau</li><li>• Mt. Hood</li><li>• Tradition (DEU)</li></ul>
<b>Magnum</b>	<ul style="list-style-type: none"><li>• Columbus</li><li>• Horizon</li><li>• Nugget</li><li>• Magnum (DEU)</li></ul>
<b>Magnum (DEU)</b>	<ul style="list-style-type: none"><li>• Columbus</li><li>• Nugget</li></ul>

<b>Merkur</b> (DEU)	<ul style="list-style-type: none"> <li>• Magnum</li> <li>• Taurus (DEU)</li> <li>• Tradition (DEU)</li> </ul>
<b>Millennium</b>	<ul style="list-style-type: none"> <li>• Columbus</li> <li>• Nugget</li> <li>• Summit</li> </ul>
<b>Motueka</b> (NZL)	<ul style="list-style-type: none"> <li>• Saaz</li> <li>• Sterling</li> </ul>
<b>Mt. Hood</b>	<ul style="list-style-type: none"> <li>• Strisselpalt (FRA)</li> <li>• Hallertau Mittelfruh (DEU)</li> <li>• Hersbrucker (DEU)</li> </ul>
<b>Mt. Rainier</b>	<ul style="list-style-type: none"> <li>• Brewer's Gold</li> <li>• Fuggle</li> <li>• Hallertau</li> </ul>
<b>Newport</b>	<ul style="list-style-type: none"> <li>• Brewer's Gold</li> <li>• Fuggle</li> <li>• Galena</li> <li>• Magnum</li> <li>• Nugget</li> </ul>
<b>Northdown</b> (GBR)	<ul style="list-style-type: none"> <li>• Northern Brewer</li> <li>• Challenger (GBR)</li> </ul>

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**[WATCH: Experimenting with Smoked Hops]**

<b>Northern Brewer</b>	<ul style="list-style-type: none"> <li>• Chinook</li> <li>• Galena</li> <li>• Northern Brewer (DEU)</li> </ul>
<b>Northern Brewer</b> (DEU)	<ul style="list-style-type: none"> <li>• Chinook</li> <li>• Columbus</li> <li>• Galena</li> <li>• Magnum</li> <li>• Northern Brewer</li> <li>• Brewer's Gold (DEU)</li> </ul>
<b>Nugget</b>	<ul style="list-style-type: none"> <li>• Columbus</li> <li>• Galena</li> <li>• Magnum</li> </ul>

<b>Olympic</b>	<ul style="list-style-type: none"> <li>• Chinook</li> </ul>
<b>Opal</b>	<ul style="list-style-type: none"> <li>• Tettnang</li> <li>• East Kent Golding (GBR)</li> <li>• Styrian Savinjski Golding (SVN)</li> </ul>
<b>Pacific Gem (NZL)</b>	<ul style="list-style-type: none"> <li>• Galena</li> </ul>
<b>Pacifica (NZL)</b>	<ul style="list-style-type: none"> <li>• Hallertau</li> </ul>
<b>Palisade</b>	<ul style="list-style-type: none"> <li>• Willamette</li> </ul>
<b>Perle</b>	<ul style="list-style-type: none"> <li>• Northern Brewer</li> <li>• Northern Brewer (DEU)</li> <li>• Perle (DEU)</li> </ul>
<b>Perle (DEU)</b>	<ul style="list-style-type: none"> <li>• Northern Brewer</li> <li>• Perle</li> </ul>
<b>Phoenix (GBR)</b>	<ul style="list-style-type: none"> <li>• Northdown (GBR)</li> <li>• Challenger (GBR)</li> </ul>
<b>Pilgrim (GBR)</b>	<ul style="list-style-type: none"> <li>• Target (GBR)</li> <li>• Challenger (GBR)</li> </ul>
<b>Pioneer (GBR)</b>	<ul style="list-style-type: none"> <li>• East Kent Golding (GBR)</li> </ul>
<b>Progress (GBR)</b>	<ul style="list-style-type: none"> <li>• Fuggle</li> <li>• East Kent Golding (GBR)</li> </ul>
<b>Rakau (NZL)</b>	<ul style="list-style-type: none"> <li>• Amarillo</li> <li>• Summit</li> </ul>
<b>Saaz</b>	<ul style="list-style-type: none"> <li>• Sterling</li> <li>• Saaz (CZE)</li> <li>• Lublin (POL)</li> </ul>
<b>Saaz (CZE)</b>	<ul style="list-style-type: none"> <li>• Saaz</li> <li>• Sterling</li> <li>• Lublin (POL)</li> </ul>
<b>Santiam</b>	<ul style="list-style-type: none"> <li>• Spalt (DEU)</li> <li>• Tettnang (DEU)</li> <li>• Select (DEU)</li> </ul>
<b>Saphir (DEU)</b>	<ul style="list-style-type: none"> <li>• Hallertau</li> </ul>

<b>Select</b> (DEU)	<ul style="list-style-type: none"> <li>• Saaz</li> <li>• Tettnang</li> <li>• Hersbrucker (DEU)</li> <li>• Spalt (DEU)</li> <li>• Tettnang (DEU)</li> </ul>
<b>Simcoe</b>	<ul style="list-style-type: none"> <li>• Magnum</li> <li>• Summit</li> </ul>
<b>Spalt</b> (DEU)	<ul style="list-style-type: none"> <li>• Saaz</li> <li>• Tettnang</li> </ul>
<b>Sterling</b>	<ul style="list-style-type: none"> <li>• Saaz (CZE)</li> <li>• Lublin (POL)</li> </ul>
<b>Sticklebract</b> (NZL)	<ul style="list-style-type: none"> <li>• Northern Brewer (DEU)</li> </ul>

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**[LISTEN: Hops: Grow and Enjoy Your Own]**

<b>Strisselpalt</b> (FRA)	<ul style="list-style-type: none"> <li>• Crystal</li> <li>• Liberty</li> <li>• Mt. Hood</li> <li>• Hersbrucker (GBR)</li> </ul>
<b>Styrian Aurora</b> (SVN)	<ul style="list-style-type: none"> <li>• Styrian Bobek (SVN)</li> <li>• Styrian Savinjski Golding (SVN)</li> </ul>
<b>Styrian Celeia</b> (SVN)	<ul style="list-style-type: none"> <li>• Saaz, Styrian Bobek (SVN)</li> <li>• Styrian Savinjski Golding (SVN)</li> </ul>
<b>Styrian Savinjski Golding</b> (SVN)	<ul style="list-style-type: none"> <li>• Fuggle</li> <li>• Fuggle (GBR)</li> <li>• Styrian Bobek (SVN)</li> </ul>
<b>Sylva</b> (AUS)	<ul style="list-style-type: none"> <li>• Saaz (CZE)</li> </ul>
<b>Summit</b>	<ul style="list-style-type: none"> <li>• Columbus</li> <li>• Millennium</li> <li>• Simcoe</li> <li>• Warrior</li> </ul>
<b>Target</b> (GBR)	<ul style="list-style-type: none"> <li>• Fuggle</li> <li>• Willamette</li> </ul>

<b>Taurus</b> (DEU)	<ul style="list-style-type: none"><li>• Citra</li><li>• Magnum</li><li>• Tradition (DEU)</li></ul>
<b>Tettnang</b>	<ul style="list-style-type: none"><li>• Fuggle</li><li>• Santiam</li><li>• Spalt (DEU)</li></ul>
<b>Tettnang</b> (DEU)	<ul style="list-style-type: none"><li>• Saaz</li><li>• Hersbrucker (DEU)</li><li>• Spalt (DEU)</li><li>• Select (DEU)</li></ul>
<b>Tradition</b> (DEU)	<ul style="list-style-type: none"><li>• Liberty</li><li>• Hallertau Mittelfruh (DEU)</li></ul>
<b>Tripleperle</b>	<ul style="list-style-type: none"><li>• Perle</li></ul>
<b>Triskel</b> (FRA)	<ul style="list-style-type: none"><li>• Ahtanum</li><li>• Centennial</li><li>• Chinook</li><li>• Simcoe</li></ul>
<b>Ultra</b>	<ul style="list-style-type: none"><li>• Hallertau</li></ul>
<b>Vanguard</b>	<ul style="list-style-type: none"><li>• Hallertau</li><li>• Liberty</li><li>• Mt. Hood</li><li>• Hersbrucker (DEU)</li></ul>
<b>Warrior</b>	<ul style="list-style-type: none"><li>• Columbus</li><li>• Magnum</li><li>• Nugget</li></ul>
<b>WGV</b> (GBR)	<ul style="list-style-type: none"><li>• East Kent Golding (GBR)</li><li>• Progress (GBR)</li></ul>
<b>Willamette</b>	<ul style="list-style-type: none"><li>• Fuggle</li><li>• Glacier</li><li>• Tettnang</li><li>• Styrian Savinjski Golding (SVN)</li></ul>

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