

# WILLAMETTE

## VARIETY INFORMATION



[www.hopsteiner.com](http://www.hopsteiner.com)

### Genetic Origin

A triploid seedling of the English Fuggle variety.

### Agronomic Aspects

#### Growing

Classification	Aroma
Yield (kg/ha)	1,500 - 1,900
Maturity	Medium Early
Main growing country	USA
Acreage (ha)	671

#### Resistance against Diseases

Wilt diseases	Susceptible
Downy mildew	Tolerant
Powdery mildew	Susceptible

### Chemical Ingredients

#### Bitter Components

Alpha acid %	4.5 - 7.0
Beta acid %	3.0 - 4.0
Cohumulone % rel.	30 - 35
Hard resins : alpha acid	0.26 - 0.55

#### Polyphenoles

Xanthohumol	0.2 - 0.4
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#### Aroma Components

Total oils (ml/100g)	1.0 - 1.5
Beta-caryophyllene: Humulene	0.30
Farnesene % of total oil	5.0 - 6.0
Linalool % of total oil	0.4 - 0.6
Linalool : Alpha acid	0.08 - 0.09

### Aroma Evaluation (Smell of Raw Hops, 0-5)

<b>Aroma Specification</b>	spicy, earthy, ginger, citrusy				
Fruity	1	0	0	0	0
Floral	1	1	0	0	0
Citrusy	1	1	0	0	0
Spicy	1	1	1	1	1
Earthy / resinous	1	0	0	0	0
Herbal	1	1	1	0	0
Sugar-like	0	0	0	0	0

### Substitutes

<b>Brewhouse</b>	<b>Dry Hopping</b>
Fuggle, Tettnanger, Delta	Fuggle, Tettnanger, Delta

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**Hopsteiner**

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