

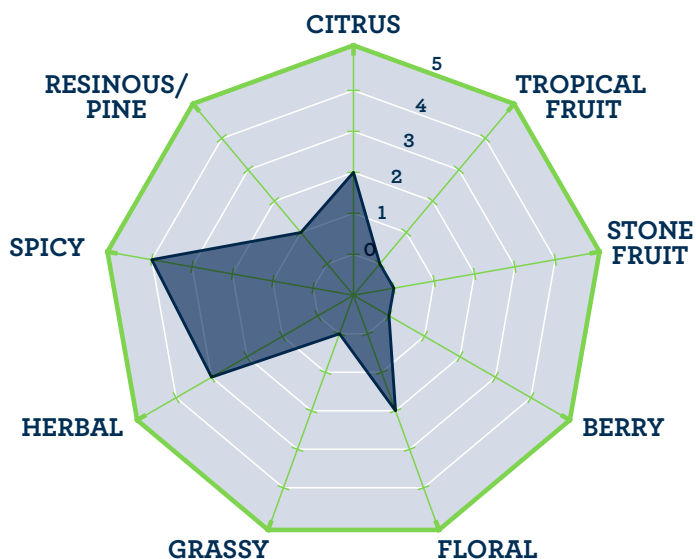
# WILLAMETTE

American



**Origin:** USA. At one time the most widely-grown US aroma hop, Willamette is a daughter of the renowned English Fuggle and was released from the USDA in the 1970s. It is named after Oregon's Willamette River and the hop-growing valley.

**Usage:** Aroma. Willamette can be incorporated into many styles thanks to its moderate alpha and mellow disposition. English ales are a natural fit, but it also does well in many American and European ale styles as well.




**Aroma & Flavor Characteristics:** Mild with complex spiciness. Warm and inviting character containing high notes of wood resin, dried fruit, and fresh hay.




**SENSORY HIGHLIGHTS**

Spicy  
Fruity  
Floral



**BREWING VALUES**

Alpha Acid Range: 4.0 - 6.0%  
Beta Acid Range: 3.0 - 4.5%  
Co-Humulone as % of alpha: 30 - 35  
Total oils mL/100 gr.: 1.0 - 1.5



**OIL FRACTIONS**

Myrcene: 22 - 32%  
Humulene: 30 - 35%  
Caryophyllene: 12 - 14%  
Farnesene: 7 - 10%  
B-Pinene: 0.3 - 0.5%  
Linalool: 0.4 - 0.7%

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