

# LIBERTY

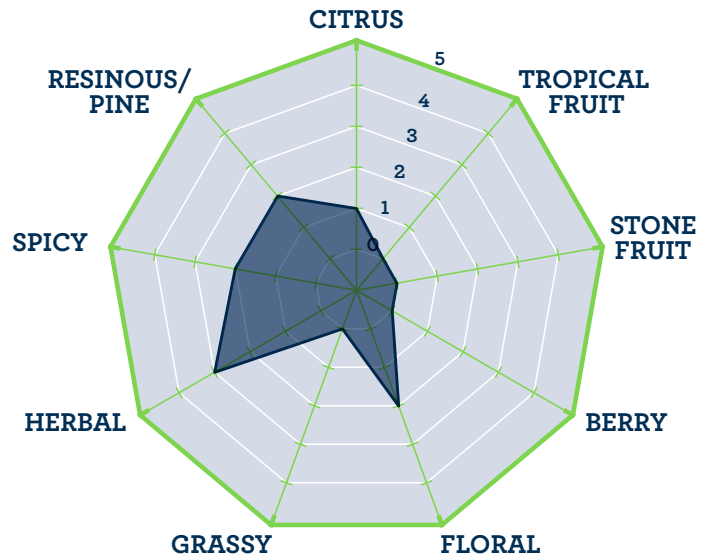
American



**Origin:** USA. Liberty came about in 1983 as part of the same USDA program that produced its half-sisters Crystal, Mt. Hood, and Ultra. It is a triploid daughter of Hallertau Mittelfrüh and a downy mildew-resistant USDA male, #64035M. Of the four sister hops, is considered to most closely resemble its German mother.

**Usage:** Designed as a substitute for Hallertau Mittelfrüh, Liberty makes an excellent domestic stand-in for European noble hops in German pils, Bavarian-style lagers, Kölsch, Hefeweizen, Biere de Garde, and Belgian ales.

**Aroma & Flavor Characteristics:** Mild and refined. Slightly spicy, sweet and grassy, it is an excellent substitute for noble varieties.



## SENSORY HIGHLIGHTS

Spicy  
Sweet  
Herbal



## BREWING VALUES

Alpha Acid Range: 3.0 - 5.0%  
Beta Acid Range: 3.0 - 4.0%  
Co-Humulone as % of alpha: 24 - 30  
Total oils mL/100 gr.: 0.6 - 1.8



## OIL FRACTIONS

Myrcene: 15 - 25%  
Humulene: 35 - 45%  
Caryophyllene: 10 - 15%

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