

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, and of the four is considered to most closely resemble its 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. Spicy, sweet, grassy and haylike. Among its half-sisters, Liberty's sensory profile is often regarded as the "closest" to Mittelfrüh.

Maturity: Medium

Yield: 1,000 - 1,550 lbs/acre

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



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