



Hopunion CBS, LLC

US CRYSTAL

Pedigree	A triploid variety developed from the German Hallertau aroma hop variety with primary contributions from Cascade, Brewer's Gold and Early Green. Released in 1993 to the hop industry.
Maturity	Mid-season
Yield	1350 – 2250 kg./ha. Or 1200 – 2000 lb./ac.
Growth Habit	A fairly strong growing hop
Disease/Pest Susceptibility	Somewhat susceptible to downy mildew.
Pickability/Drying/Baling	Good
Cone-Structure	Medium-sized fairly neat cone
Lupulin	Moderately abundant, normal yellow color
Aroma	Mild, spicy & flowery
Alpha Acids	3.5 – 5.5% w/w
Beta Acids	4.5 – 6.5% w/w
Co-Humulone	20 – 26% of alpha acids
Storageability	50% alpha acids remaining after 6 months storage at 20° C
Total Oil	1.0 – 1.5 mls/100 grams
Myrcene	40 – 65% of whole oil
Humulene	18 – 24% of whole oil
Caryophyllene	4 – 8% of whole oil
Farnesene	<1% of whole oil
General Trade Perception	Very popular in the craft-brewing industry. Viewed as the most pungent of the new triploid Hallertau family of hops.
Possible Substitutions	Mt. Hood, Hersbruck, French Strisselspalt, Liberty, Hallertau
Typical Beer Styles	Pilsner, Lager, Kölsch, ESB, Alt, Belgian-Style Ales
Additional Information	Primarily grown in Oregon. Acreage is increasing. Released in the 1990's.
Personal Notes:	