



## Hopunion CBS, LLC

### US MILLENIUM

<b>Pedigree</b>	Millennium is a triploid, high alpha acids variety, with Nugget as the mother.
<b>Maturity</b>	Middle-Late
<b>Yield</b>	2750 – 2900 kg./ha. or 2400 – 2600 lb./ac.
<b>Growth Habit</b>	Vigorous
<b>Disease/Pest Susceptibility</b>	Appears fairly resistant to most diseases, including Powdery Mildew
<b>Pickability/Drying/Baling</b>	Good
<b>Cone-Structure</b>	Heavy, compact
<b>Lupulin</b>	Yellow
<b>Aroma</b>	Mild, Herbal, similar to Nugget
<b>Alpha Acids</b>	15.5% w/w
<b>Beta Acids</b>	4.8% w/w
<b>Co-Humulone</b>	30% of alpha acids
<b>Storageability</b>	24% alpha acids remaining after 6 months storage at 20° C
<b>Total Oil</b>	2.0 mls/100 grams
<b>Myrcene</b>	Great variation
<b>Humulene</b>	25% of whole oil
<b>Caryophyllene</b>	10.6% of whole oil
<b>Farnesene</b>	<1% of whole oil
<b>General Trade Perception</b>	Very new hop. Primarily used for alpha potential
<b>Possible Substitutions</b>	Nugget and Columbus
<b>Typical Beer Styles</b>	Ales, Stout, Barley Wine
<b>Additional Information</b>	Released by John I Haas
<b>Personal Notes:</b>	