



Hopunion CBS, LLC

US WILLAMETTE

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| Pedigree | A triploid seedling of the English Fuggle variety. |
| Maturity | Early to mid-season |
| Yield | 1500 – 1900 kg./ha. or 1340 – 1700 lb./ac. |
| Growth Habit | Good, vigorous but manageable |
| Disease/Pest Susceptibility | No visible reaction to Prunus necrotic ring-spot virus. Fair resistance to downy mildew. Susceptible to Verticillium wilt. Some susceptibility to powdery mildew. |
| Pickability/Drying/Baling | Good |
| Cone-Structure | Small to medium sized, round, and fairly light |
| Lupulin | Moderate amount, golden yellow in color |
| Aroma | Mild and pleasant, slightly spicy |
| Alpha Acids | 4.0 – 6.0% w/w |
| Beta Acids | 3.0 – 4.0% w/w |
| Co-Humulone | 30 -35% of alpha acids |
| Storageability | 60 – 65% alpha acids remaining after 6 months storage at 20° C |
| Total Oil | 1.0 – 1.5% mls/100 grams |
| Myrcene | 45 – 55% of whole oil |
| Humulene | 20 – 30% of whole oil |
| Caryophyllene | 7 – 8% of whole oil |
| Farnesene | 5 – 6% of whole oil |
| General Trade Perception | A quality aroma hop |
| Possible Substitutions | US Fuggle, US Tettnang, Styrian Golding |
| Typical Beer Styles | All English-style Ales, and US Pale and Brown Ales. |
| Additional Information | Released in 1976 and well-established in the US industry. Currently the most widely grown aroma hops in the US. |

Personal Notes: