



- ❖ **Hop Variety:** **Glacier**
(Released 2000; following is from two acres in Washington State)
- ❖ **Origin:** Cross between Elsasser F and 8685-014 M. Genetic composition is 1/2 Elsasser, 5/32 Brewer's Gold, 1/8 Northern Brewer, 1/16 Bullion, 1/32 Early Green, 1/32 German Aroma hop, 1/64 East Kent Golding, 1/128 Bavarian, and 9/128 unknown
- ❖ **Maturity:** Mid-season
- ❖ **Yield:** Six Year Average: 2588 kgs/ha (2135 lbs/acre)
- ❖ **Disease Reaction:** Needs plant protectants for powdery mildew and downy mildew; agronomically, very acceptable
- ❖ **Cone Structure:** Medium-compact and plump
- ❖ **Quality:**
- **Aroma** Excellent, pleasant hoppiness.
 - **Storage Stability** Six Year Average: 71.5% alpha acids remaining after six months storage at 20°C; very Good, and similar to Willamette, Styrian, and Magnum.
- ❖ **Spectro Data:**
- **Alpha-Acids** 3.3-9.7% w/w (six year average=5.63%)
 - **Cohumulone** 11.0 –13.0% of alpha-acids (six year average=12%)
 - **Beta-Acids** 5.4-9.5% w/w (six year average=7.6%)
 - **Xanthohumol** n/a
- ❖ **Hop Oils:**
- **Total Oil** 0.7 – 1.6% v/w (six year average=1.1%)
of which typically:
 - **Myrcene** 33 - 62% (six year average=47%)
 - **Humulene** 24 - 36% (six year average=29%)
 - **Caryophyllene** 6.5-10.0% (six year average=7.2%)
 - **Farnesene** <0.3%
 - **Linalool** N/A
- ❖ **Brewing Character:** An excellent new variety with balanced bittering properties combined with a good aroma profile.

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