



- ❖ **Hop Variety:** ***Liberty***
- ❖ **Origin:** A triploid seedling of the German Hallertau variety.
- ❖ **Maturity:** Medium-early
- ❖ **Yield:** 1200 - 2000 kgs/ha (1058-1764 lbs/acre)
- ❖ **Disease Reaction:** Moderate resistance to downy mildew
- ❖ **Cone Structure:** Compact, medium sized
- ❖ **Quality:**
- **Aroma** Pleasant, mild, slightly floral
 - **Storage Stability** Average-to-good
- ❖ **HPLC Data:**
- **Alpha-Acids** 3.5 – 6.5% w/w
 - **Cohumulone** 24 – 28% of alpha acids
 - **Beta-Acids** 3.0 – 4.0% w/w
 - **Xanthohumol** n/a
- ❖ **Hop Oils:**
- **Total Oil** 0.7 – 1.2% v/w
of which typically:
 - **Myrcene** 32 - 42%
 - **Humulene** 30.0 – 40.0%
 - **Caryophyllene** 9.0 – 12.0%
 - **Farnesene** <1.0%
 - **Linalool** N/A
- ❖ **Brewing Character:** Provides a pleasant floral character to beer; aroma variety with marked similarities to Hallertauer Mittelfruh.

VDS 69/02 issued 31-January-03