



The Australian grown hop *Millennium* is a high alpha triploid cultivar bred by Barth Haas group member John I Haas' breeding programme in the USA. Millennium was released for commercial production in 2000.

Its brewing profile is comparable to that of Nugget and CTZ.

Origin

Millennium was bred the John I Haas Breeding Program in the USA. Millennium was bred through male open pollination and a female Nugget. Millennium retains may of its mothers characteristics.

MILLENNIUM

<u>Analytical Data</u>	<u>Australian Grown</u>	<u>USA Grown</u>
Yield (Kg/Ha)	2500—3100	
Alpha acids (%)	13.5—15.0	15.5
Beta acids (%)	5.0—6.3	4.8
Alpha/Beta Ratio	2.3—2.8	3.2
Cohumulone (%)	30.1—30.3	30
Total Oils (ml/100g)	1.9—2.0	2.0
Myrcene (% of whole oil)	14—27	
Beta Caryophyllene (% of whole oil)	13—15	10.6
Farnesene (% of whole oil)	0	0
Humulene(% of whole oil)	31—34	25
β & α Selinene (% of whole oil)	3—4	
Humulene/Caryophyllene ratio	2.2—2.3	2.4

*Hop Acids by HPLC (ICE)
Steam distilled essential oil analyzed by GC-MS*

The analytical values are typical for each variety at harvest time but values can vary among crop years, growing areas, growers, and with aging after harvest.

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