

## Pioneer

## U.K. Dual Purpose Hop

Pioneer is a dwarf dual-purpose hop released in 1996 from Wye College in the UK. It has good tolerance to wilt, but is susceptible to both downy and powdery mildews. Pioneer has an assertive aroma which includes a distinctive hoppy but pleasant lemon and grapefruit notes with some cedar and herbal characters present.

Pedigree	Dwarf variety bred at Wye College in 1996
Aroma	Hoppy with lemon/grapefruit; cedar and herbal
Alpha Acids*	8.5 - 11.4 %
Beta Acids	3.2 - 4.9 %
Cohumulone	33 - 40 % of alpha acids
Total Oil	1.5 - 2.3 ml/100g
Myrcene	28 - 42 % of total oil
Humulene	16 - 24 % of total oil
Caryophyllene	6 - 9 % of total oil
Farnesene	< 1 % of total oil
Storage Stability	Fair to good