



NZ HOPS - DATA SHEET

“hops with a difference”

SOUTHERN CROSS

Breeding: A triploid cross between the New Zealand variety “Smoothcone” and a 1950s’ research variety bred from a crossing of an early North American type known as the “Cali” (short for Californian) with the ubiquitous English Fuggle. Released from New Zealand’s HortResearch hop breeding programme at Riwaka in 1994.

Selection: The aroma is characterised by a heady mix of lemon peel and pine needles layered beneath the clean spiciness which typifies this New Zealand alpha selection. The Southern Cross has an excellent essential oil profile and low Cohumulone while producing consistent levels of Alpha acid.

Brewers notes: Used for first addition bittering this hop has no pretence at substitution for noble type. A kettle variety of the highest order Southern Cross imparts a soft bitterness with a subtle resinous quality. The essential oil component is such that it can deliver a delicate balance of citrus and spice when added toward the end of boil. Generally selected for its consistency in mainstream Lagers this hop has also ventured into the craft market as a reliable Brewpub mainstay.

“A hop with many talents”

Grower remarks:	Maturity	Mid season
	Yield	Good
	Growth Habit	Vigorous, early growth, clavate frame
	Cone Structure	Cylindrical, long, medium density
	Disease Resistance	New Zealand is hop disease free
	Storage Stability	Good.

Technical data HPLC & Oil Composition (Measured within 6 months of harvest, stored at 0 °C)

Alpha Acids	11.0 – 14.0 %
Beta Acids	5.0 – 6.0 %
Cohumulone	25.0 – 28.0 % of Alpha Acids
Total Oil	1.2 ml oil per 100 gram cone weight
Concentration	86 uL Oil/gram Alpha
Myrcene	31.8 %
Humulene	20.8 %
Caryophyllene	6.7 %
Farnasene	7.3 %
Citrus-Piney Fraction	6.9 %
Floral Estery Fraction	2.7 % (Linalool 1.2 %)
Xanthohumol	0.7 %
Other	10.6 %

Applications: High Alpha Acids and Total Oil matched with low Cohumulone find this extraordinary hop several applications, single or dual-purpose. Difficult for us to list a substitute as there is really nothing quite like the New Zealand Southern Cross available on the world market. A testament to our successful breeding programme...