

BARLEY

Target populations will vary from 150 plants/m² in the autumn to 300 plants/m² in the late spring with allowances made for yield potential, thousand grain weight, germination and expected field emergence. Uses for barley are malting- using varieties accepted by the International Malting Company and varieties recognised internationally for malting, feed- using high yielding robust varieties and for whole crop silage where varieties need to have high grain ratio for high ME and CHO levels and high yields, Disease information is derived from work carried out for FAR by Crop & Food Research. (S= susceptible, MS= moderately susceptible, MRMS = Intermediate resistant, MR= moderately resistant, R= resistant). The yields (and grading data) presented are either spring sown 4 year running means or winter sown 2 year means and are sourced from FAR cultivar trial booklet. 2004/05 and 2005/6, * historical means,

Cultivar	Winter Barley			Spring barley (% of average) 4 year means			COMMENTS
	* NZ Owner # NZ Agent	2004/05	2005/06	Mean Yield (2 years)	Southern North Island	Canterbury	
Cask *# Cropmark				106	97*	96*	High yielding feed cultivar. No longer resistant to scald or leaf rust, early maturing with good silage yields and quality. High NI yields
Cellar *# Cropmark		7.58					New early maturing malting barley with good resistance to mildew and rust although susceptible to scald and net blotch. Good grain size and test weight with low screenings and protein %.
County * Cropmark # PGGWrightson	9.5	8.04	8.77	103	104	103	High yielding feed cultivar with some malt quality. Good scald and leaf rust resistance. Good grain size and high yield potential. Good silage yields.
Dash * Cropmark # PGGWrightson	9.2	8.03	8.62	101	102	97	Feed cultivar. A good dryland crop option as Dash has a short straw, a lower grain size and stands well. No longer resistant to scald.
Doyen * Cropmark # Numerous	10.2	8.28	9.24	99	106	107	New high yielding feed barley, excellent disease resistance, straw strength and grain quality, medium maturity suits wide sowing window.
Fairview *# IMC				102	98	--	New malting cultivar, Good dryland yields, stiff straw and good grain size. Very susceptible to mildew.
Muscat** *#Canty Seeds	8	-	-				Winter 6 row variety with average, good disease resistance but susceptible to ear loss.

Optic *# Cropmark	9.1	7.49	8.3	96	95	95	High malt quality has resulted in Optic being the standard malt variety grown in New Zealand and world wide. Disease susceptible but yields well under fungicide treatment and good management.
Pyramid *# PRNZ	9.2	8.31	8.76	93	97	91	New short strawed feed variety, Below average yields in first full year of trials. Good grain quality and disease resistance
Sherwood * IMC/CFR # IMC	8.8	7.77	8.29	102	94	-	High quality malting variety with below average yields. Susceptible to leaf rust and net blotch.
Tavern * Cropmark # PGG Wrightson	9.9	8.72	9.31	95	104	103	A useful feed variety producing lower screenings and large grain size and stiff straw. High yield potential.
Vortex * Cropmark # Peter Cates	9.2	8.85	9.03	101	99	105	High yielding feed cultivar with good disease resistance and early maturing so suitable to a wide range of sowing dates. Can have weak straw after lush early growth.
Boss * CFR # Agricom							A cultivar selected for whole crop cereal silage, Boss has a high leaf: stem ratio, is semi prostrate and late maturing (1-2 weeks later than Cask). Reported to have good disease resistance but only average grain yields.
Omaka * CFR # Kiwi Seeds							A cultivar used for silage. Moderate resistance to scald, but susceptible to leaf rust, net blotch and BYDV. Earliest maturing of the barleys - 1 week earlier than Cask, weak straw.

Cultivar	Plant type and grading data					Leaf Disease				
	* NZ Owner # NZ Agent	Plant Height	Lodging Resistance	TGW (g)	Screenings	Protein %	Scald	Leaf Rust	Net Blotch	Mildew
Cask * # Cropmark	Short – med.	Med.-high	43	Med.	-	MS	S	MR	MS	MS
Cellar *# Cropmark	Short – med	Med		Low	Low	MSS	MR	MS	MR	MSS
County * Cropmark # PGG Wrightson	Med.	Med.-high	45	Low	12.9	MR/MS	MR	MS	MR	MSS
Dash * Cropmark # PGG Wrightson	Short	High	42	Med.	13.2	MR/MS	MR/MS	MR	MR	MSS
Doyen * Cropmark # Numerous	Med.	High	47	Low	12.4	MR	MR	MR/MS	MR	MR/MS
Fairview *# IMC	Med.	Med.	43	Med. –Low	12.7	MR/MS	MR/MS	MR	HS	MS
Muscat** *# Canty Seeds	High	Med.- Low	43	Med.	-	R	MS	MS	MR	-
Optic *# Cropmark	Med.-Tall	Low-Med	44	Med. – Low	14.2	S	MS	MS	MR/MS	MSS
Pyramid *# PRNZ	Short- Medium	High	47	Low	13	MR	MSS	MSS	R	MS
Sherwood * IMC/CFR # IMC	Med.	Med.-high	41	High	13.9	MR	S	S	R	MSS

Tavern * Cropmark # PGG Wrightson	Short	High	45	Low	13	MS	MS	MS	MRR	MSS
Vortex * Cropmark # Peter Cates	Short-med.	Med.	46	Low	12.1	MR	MS	MR	R	MS
Boss * CFR # Agricom	Med.-Tall	Med.								
Omaka * CFR # Kiwi Seeds	Med. -Tall	Med.								