



Cereal Breeding for Australia

Calingiri type with superior yield and improved disease resistance

CLASSIFICATION	ANW
MATURITY	Mid-long – similar to Calingiri
YIELD	High, comparable to Mace
YELLOW SPOT	MR-MS p
STRIPE RUST	MR p
STEM RUST	S p
LEAF RUST	MR* p
GRAIN SIZE	Good – similar to Calingiri
ALTERNATIVE TO	Calingiri, Fortune [®] and Mace [®]

Key Features

- High yielding udon noodle variety
- Excellent yield performance across a broad range of environments, similar to Mace.
- Mid-long season maturity
- Robust disease resistance package
- Good yellow spot resistance
- Calingiri alternative with ANW classification*
- Available for sowing in 2015

Pedigree

Zen[®] was formerly known by breeding code IGW6046 and is a Calingiri and Wyalkatchem[®] derivative.

Variety Overview

Zen[®] is a mid-long season alternative to Calingiri. This line offers yield improvements of approximately 5-10% over Calingiri and similar yields to Mace[®]. Zen[®] also provides an improved disease resistance profile over Calingiri, in particular yellow spot. Zen[®] possesses a good grain size, similar to Calingiri and has performed very well over a number of years within the InterGrain udon noodle program both in terms of yield and udon noodle quality. Zen[®] has an improved udon noodle quality over Calingiri.

Plant Features

Zen[®] has a similar plant type to Calingiri and is slightly shorter in height than Calingiri.

* Pending final LMA classification

FOR MORE INFORMATION:

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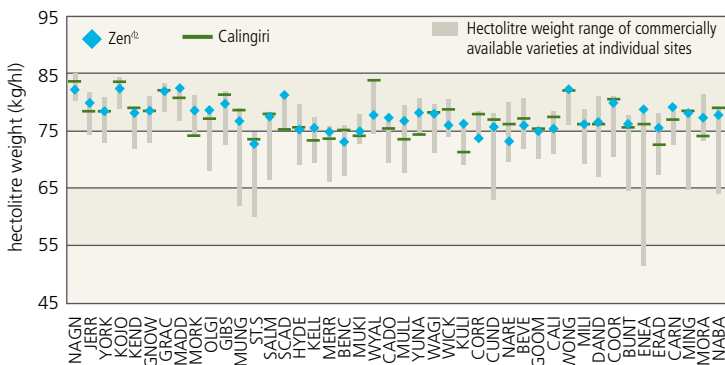
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Grain Quality

2013 WA NVT Hectolitre weights from individual sites



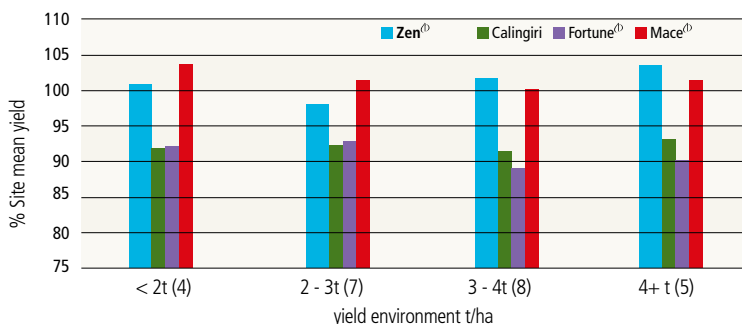
Disease

	CLASSIFICATION	LEAF RUST*	STEM RUST	STRIPE RUST	YELLOW LEAF SPOT	POWDERY MILDEW
Zen (Z)	ANW	MRp	Sp	MRp	(MR-MS)p	-
Arrino	ANW	MS-S	S-VS	S	MS-S	MR
Calingiri	ANW	MS	S	S	(MS)	MS-S
Fortune (F)	ANW	MR-MS	MS	MS	MS	MR-MS
Mace (M)	AH	MR	MR	R-MR	MR-MS	MS-S
Wyalkatchem (W)	APW	MS	MS	S	(MR)	S

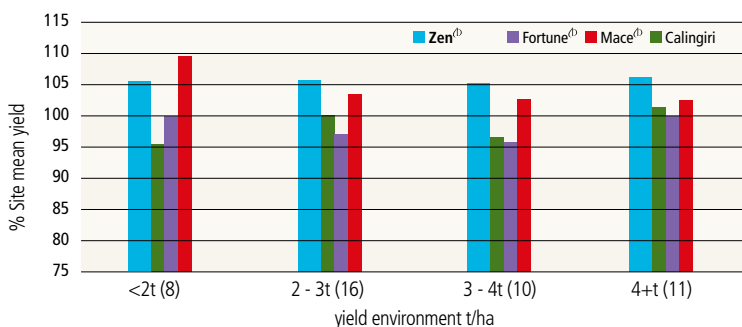
Source: DAFWA 2014 wheat variety guide. Disease data reference: R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible. * Pathotype dependent, () = Higher disease at some sites, p= provisional rating.

Yield Performance

2012-13 InterGrain WA MET variety Performance by yield environment - represented as % of site mean yield (24 sites)



2013 WA NVT Variety performance by yield environment - represented as % of site mean yield (45 sites)



Seed Availability

Seed is available from registered InterGrain Seedclub members or your local reseller. For more information please contact David Meharry on 0427 855 059 or dmeharry@intergrain.com

Plant Breeder's Rights (PBR)

Zen is protected by Plant Breeder's Rights and is subject to an end point royalty of \$3.85/tonne GST Exclusive.

Zen is an InterGrain variety bred by Daniel Mullan, Ian Barclay (retired), Robyn McLean (retired) and the wheat breeding team.

Zen has only been in the NVT for one year so caution is advised when interpreting these results.

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