NSW GOVERNMENT | Department of Primary Industries

Barley – newer varieties and potential releases for 2021

28 September 2020

The following is a list of newer barley varieties and possible new releases for 2021 onwards, pending malt quality classification and seed supply. The information has been collated from breeding company information and will be updated for the 2021 *Winter crop variety sowing guide*.

There are a number of newer niche malt barley varieties being released that are likely only to be grown under contract, with specific marketing arrangements.

Further and more detailed information is available from the respective breeding companies on potential releases for 2021. **Growers should be aware that a number of the key diseases now have regionally-based pathotypes, so variety reactions to a disease can vary depending on region.**

* All classifications/ratings are preliminary and subject to final review.

BeastΦ (AGTB0113) *NEW*

A quick maturing high yielding barley suited to low-medium rainfall environments. Released in 2020 as a feed quality barley and is under evaluation with Barley Australia for malt accreditation. First barley line from the AGT breeding program. Beast$^{\Phi}$ has a plant type and early vigour similar to Compass$^{\Phi}$. Competitive physical grain quality package, with test weight and grain size comparable to most commonly grown varieties. AGT.

BuffΦ

An early maturing, white aleurone, acid soil tolerant variety and suited to the acid soil/high aluminium environments of Western Australia (WA). Buff$^{\Phi}$ is broadly adapted in WA and offers moderately good grain plumpness and has good early vigour. Limited testing in NSW. It is currently undergoing malt accreditation with Barley Australia. Bred and marketed by InterGrain.

LaperouseΦ (WI4952) *NEW*

Released in 2020 through SECOBRA recherches as a high yielding feed type and is under evaluation for malt accreditation with Barley Australia. Competitive growth habit with medium plant height. Laperouse$^{\Phi}$ is a spring type barley, when sown in a main season sowing time maturity is typically between Compass$^{\Phi}$ and RGT Planet$^{\Phi}$. Laperouse$^{\Phi}$ has shown a low incidence of head-loss and good physical grain quality. Commercialised by Seednet.

LeabrookΦ

Released as a high yielding feed type and is under evaluation for malt accreditation with Barley Australia. Mid tall plant type, with mid–early maturity similar to Compass$^{\Phi}$. Generally higher grain yield, higher grain plumpness percentage and low screenings percentage when compared to Compass$^{\Phi}$. Released in 2019 and bred by the University of Adelaide. Commercialised by Seednet.

Maximus CLΦ (IGB1705T) *NEW*

A quick-mid maturing imidazoline(IMI) tolerant high yielding barley. Released as a feed type and under evaluation for malt accreditation with Barley Australia. Maximus CL$^{\Phi}$ is similar to Spartacus CL$^{\Phi}$ with an erect plant type, strong lodging tolerance and low-medium head loss risk. Maximus CL$^{\Phi}$ has a short coleoptile and it is recommended that sowing depth be adjusted accordingly. The variety also has a good physical grain package. Bred and marketed by InterGrain.

Nitro (HV8) *NEW*

A mid-season maturity spring barley with mid straw height. High yield potential in favourable environments. Undergoing commercial seed production in 2020, Nitro can only be grown under licence from GrainSearch.

(Cont.) Summary of across sites analysis yield data 2015–2019

GRDC NATIONAL VARIETY TRIALS

South-western main season wheat

Variety	Yearly group mean					Regional mean	Number of trials
	2015	2016	2017	2018	2019		
South-west (includes irrigated trials)							
% EGA_Gregory (t/ha)	3.13	5.05	4.52	4.29	2.73	3.82	
Ballista	–	–	–	–	135	116	7
Beckom	120	111	110	109	133	117	28
Chara	106	103	101	102	119	106	23
Condo	116	104	101	104	104	106	28
Coolah	–	105	105	102	116	107	21
Corack	118	103	104	107	121	110	28
DS Darwin	112	102	99	102	118	107	28
DS Faraday	102	–	100	101	100	100	21
DS Tull	–	104	99	100	118	105	21
EGA_Gregory	**100**	**100**	**100**	**100**	**100**	**100**	**28**
Elmore CL Plus	105	102	100	100	112	104	28
Emu Rock	111	99	101	104	123	107	28
Livingston	111	96	96	100	115	103	28
LRPB Cobra	119	112	106	105	126	114	28
LRPB Flanker	104	107	103	101	99	103	28
LRPB Hellfire	–	–	–	102	120	102	11
LRPB Impala	105	103	102	101	112	104	28
LRPB Mustang	–	102	101	104	115	107	21
LRPB Oryx	112	107	101	102	113	108	16
LRPB Parakeet	–	98	97	99	116	102	19
LRPB Reliant	101	94	98	101	107	100	28
LRPB Spitfire	107	96	96	100	118	103	28
LRPB Trojan	115	111	107	106	124	113	28
Mace	120	101	103	106	–	111	21
Razor CL PLUS	–	–	103	106	129	110	14
Rockstar	–	–	–	–	140	118	7
Scepter	122	109	110	110	139	117	28
Sheriff CL Plus	–	–	–	–	133	113	7
Sunblade CL Plus	–	–	–	–	135	110	7
Suncentral	–	–	–	–	129	109	7
Sunchaser	–	–	–	103	107	104	11
Sunguard	105	99	97	–	–	102	17
Sunmaster	–	–	–	–	134	112	7
Sunprime	–	–	101	104	116	106	14
Suntop	113	99	103	103	122	107	28
Vixen	–	–	109	111	138	117	14

Summary of across sites analysis yield data 2015–2019

Data is sourced from the National Variety Trials, additional grain yield information on varieties is available from the National Variety Trial website (www.acasnvt.com.au). The table presents NVT 'Production Value' MET data on a yearly regional mean and regional mean basis.

GRDC NATIONAL VARIETY TRIALS

Northern NSW

Variety	Yearly group mean					Regional mean	Number of trials
	2015	2016	2017	2018	2019		
North-eastern							
% Hindmarsh (t/ha)	3.75	4.89	3.71	2.33	0.95	3.16	
Alestar	89	96	76	105	52	92	11
Banks	97	91	96	105	77	95	11
Beast	–	–	–	–	86	104	2
Biere	98	93	78	91	60	90	11
Bottler	–	97	86	108	70	95	9
Buff	–	94	–	–	–	92	3
Commander	98	83	84	107	39	89	11
Compass	109	93	108	105	86	100	11
Fathom	112	95	101	92	87	98	11
GrangeR	86	96	–	–	55	93	7
Hindmarsh	**100**	**100**	**100**	**100**	**100**	**100**	**11**
Laperouse	–	100	101	107	80	102	9
LaTrobe	101	98	100	98	98	99	11
Leabrook	111	96	105	108	76	102	11
Maximus CL	–	–	–	93	81	94	5
RGT Planet	–	111	88	114	74	104	9
Rosalind	113	106	100	101	86	105	11
Spartacus CL	105	99	98	89	100	98	11
North-western							
% Hindmarsh (t/ha)	3.77	4.23	2.17	2.56	1.62	3.05	
Alestar	90	92	88	102	71	90	18
Banks	95	93	99	107	90	96	18
Beast	–	–	–	–	98	105	3
Biere	96	92	84	93	75	91	18
Bottler	–	96	94	105	81	94	13
Buff	–	94	–	–	–	91	4
Commander	95	85	93	111	75	92	18
Compass	104	96	106	111	98	102	18
Fathom	104	97	96	99	90	99	18
GrangeR	89	93	92	106	77	92	18
Hindmarsh	**100**	**100**	**100**	**100**	**100**	**100**	**18**
Laperouse	–	–	103	109	94	102	9
LaTrobe	99	99	99	100	97	99	18
Leabrook	105	97	105	114	91	102	18
Maximus CL	–	–	–	101	94	97	6
RGT Planet	–	104	98	107	81	99	13
Rosalind	105	103	100	103	89	102	18
Spartacus CL	100	100	94	93	93	98	18

More information

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(Cont.) Summary of across sites analysis yield data 2015–2019

GRDC NATIONAL VARIETY TRIALS

Southern NSW

Variety	Yearly group mean					Regional mean	Number of trials
	2015	2016	2017	2018	2019		
South-eastern							
% Hindmarsh (t/ha)	3.58	4.96	–	–	2.13	3.56	
Alestar	96	118	–	–	80	103	6
Banks	98	112	–	–	96	104	6
Beast	–	–	–	–	110	98	2
Biere	85	94	–	–	–	90	4
Bottler	–	120	–	–	85	106	4
Buff	–	105	–	–	93	101	4
Commander	96	101	–	–	90	97	6
Compass	95	95	–	–	106	97	6
Fathom	99	103	–	–	99	101	6
GrangeR	97	116	–	–	84	103	6
Hindmarsh	**100**	**100**	–	–	**100**	**100**	**6**
Laperouse	–	104	–	–	104	103	4
LaTrobe	100	101	–	–	97	100	6
Leabrook	103	105	–	–	107	105	6
Maximus CL	–	–	–	–	102	101	2
Nitro	–	124	–	–	84	110	4
RGT Planet	–	138	–	–	86	118	4
Rosalind	112	120	–	–	103	114	6
Spartacus CL	101	101	–	–	102	101	6
South-western							
% Hindmarsh (t/ha)	3.35	5.51	3.41	1.63	2.38	3.56	
Alestar	89	108	86	76	74	93	15
Banks	93	107	98	94	94	99	15
Beast	–	–	–	–	106	100	4
Biere	87	92	–	–	–	89	8
Bottler	–	111	91	81	83	98	11
Buff	–	105	97	98	90	100	11
Commander	85	101	93	82	78	91	15
Compass	93	98	104	107	103	99	15
Fathom	93	103	101	95	101	100	15
GrangeR	90	107	87	80	75	93	15
Hindmarsh	**100**	**100**	**100**	**100**	**100**	**100**	**15**
Laperouse	–	–	102	104	95	100	7
LaTrobe	100	101	99	97	98	100	15
Leabrook	95	104	104	104	103	101	15
Maximus CL	–	–	–	103	102	101	5
Nitro	–	112	–	–	84	99	8
RGT Planet	–	123	93	85	90	107	11
Rosalind	108	112	102	103	107	108	15
Spartacus CL	99	99	100	100	101	100	15

Published by the Department of Primary Industries.