LRPB TRACER

Mid maturity APH with a compact canopy October 2023

LRPB Tracer – Mid Maturity with a compact canopy

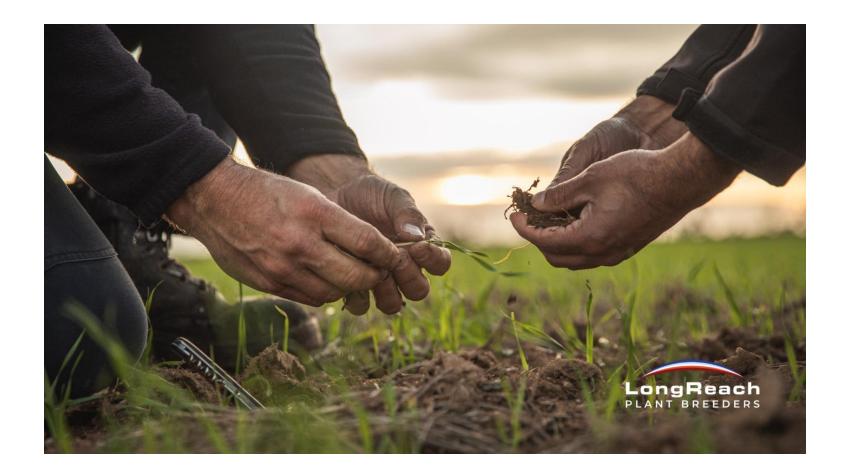
- LRPB Mustang cross made with the aim to build a variety with strong acid and sodic soil tolerances suitable for NSW and QLD
- Stable Mid maturity variety suitable for a Mid Season sowing window across NSW and QLD
- Good Disease package for NSW and QLD market
 combined with a compact plant type
- APH classification NSW & QLD







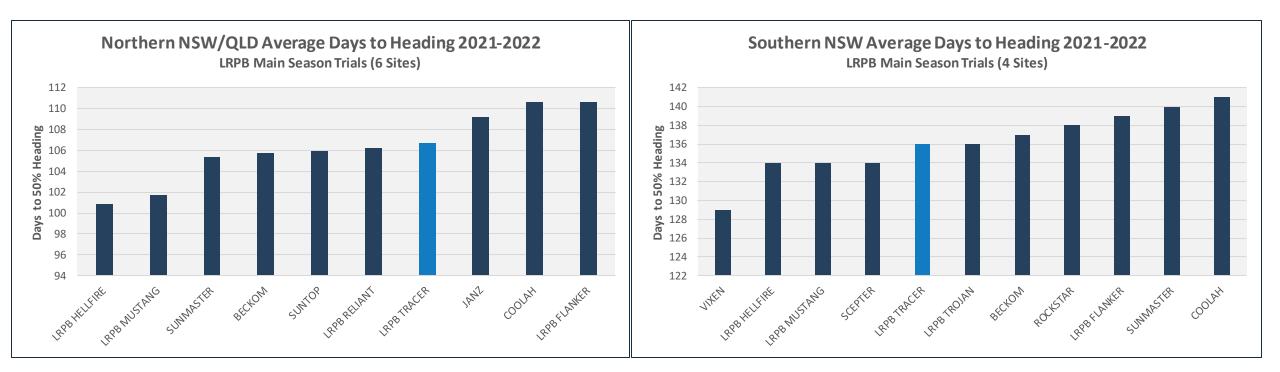
Agronomy







LRPB Tracer – Mid Spring Wheat Phenology - LRPB Main Season Trials



- Mid Maturity (Australian Cereal Phenology Classification System)
- Multi year phenology data suggests well suited for a main season planting window across NSW and QLD that will suit a similar planting window as Suntop and LRPB Reliant





LRPB Tracer – Plant Height

Average Plant Height

LRPB Sth NSW Main Season Trials 2021/2022 (4 Trials)

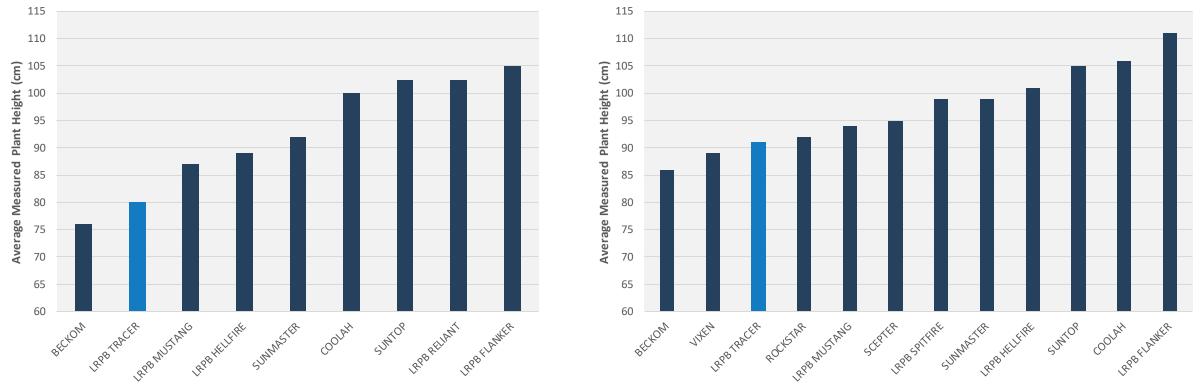
Average Plant Height LRPB Croppa Creek Main Season Trials 2020-2022 (3 Trials)

PLANT

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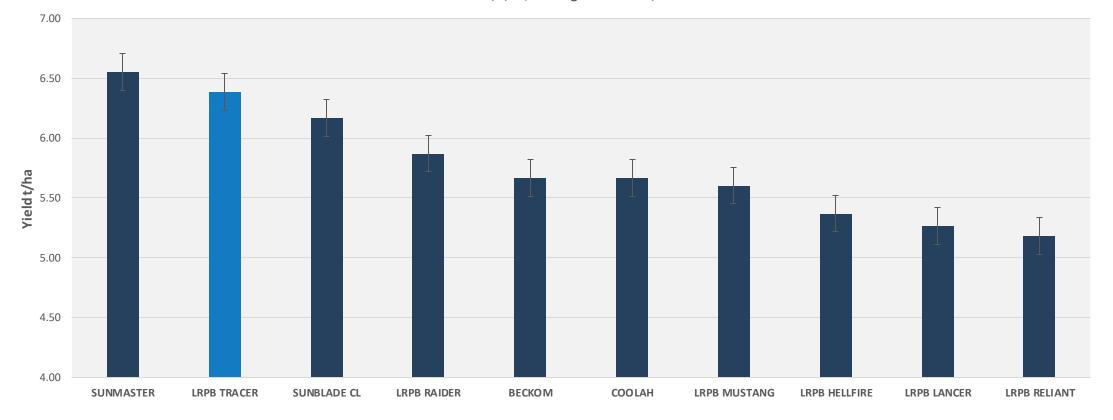


LRPB Tracer has a short compact canopy well suited to full stubble retention farming across the east coast. This may also form a key part in integrated disease management systems for disease's such as Crown Rot https://grdc.com.au/resources-and-publications/grdc-update-papers/tab-content/grdc-updatepapers/2022/02/harvest-height-implications-for-fusarium-crown-rot-management



LRPB Northern NSW Sodic Soil Screening Trial 2022

LRPB Boomi Nth NSW Sodic Screening Trial Sown - 21/6/22, Average Yield 5.70t/ha





LRPB Tracer has shown excellent yields under highly sodic conditions (ESP >10) outyielding current varieties widely used in highly sodic soils in Northern farming systems during 2022.





Due to the wet harvest in 2021 there was a lack of suitable seed to include LRPB Tracer in National Variety Trials. As a result no NVT yield or disease data will be available until early 2024. LRPB Tracer has been entered across all NSW and QLD mains season trials in 2023. All data presented has been generated by LongReach Plant Breeders using the same field trial, disease screening, and statistical analysis service providers utilized to carry out NVT data generation.





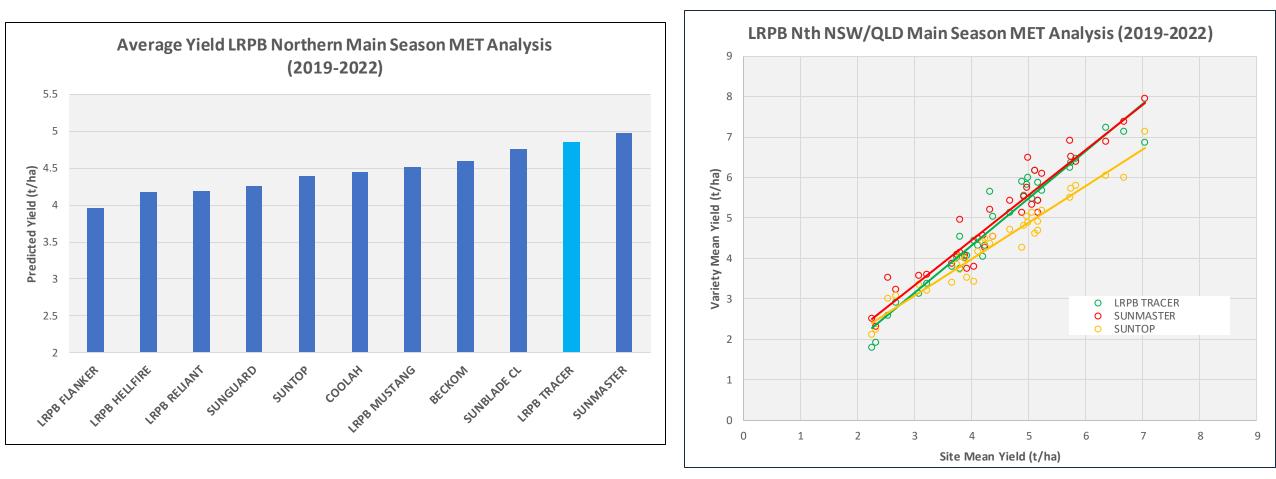








LRPB Northern NSW/QLD Main Season MET Analysis (2019-2022) **Yield Regression**



RPB Tracer has been one of the highest yielding breeding lines across a number of years within LRPB main season breeding trials especially across 3 – 5 t/ha yield ranges. **Pacific Seeds** each Note - Sunmaster/Sunblade first appeared in LRPB trials in 2021. As a result all yield data from the lower yield years of 2019/20 is predicted

PLA

Growing possibilities

LRPB Nth NSW/QLD Main Season MET Analysis (2019-2022) Trial Cluster Analysis

LRPB Nth NSW/QLD Main Season Trials MET Analysis 2019-2022											
Variety	Maturity	2020 Goondiwindi. 27/4/20 Sown.	C1 - Nth Yield Drivers (RLN, Cr, Stored Moisture)	C2 - Low Protein/Late N Applied Trials	C3 - 2020 Low Disease, Mod Yielding Trials	C4 - Early Disease, High Yielding Trials	All Trials				
SUNMASTER*	Mid	104.9%	116.6%	107.1%	105.8%	116.6%	112.9%				
LRPB TRACER	Mid	80.7%	114.1%	104.6%	105.3%	114.5%	110.3%				
SUNBLADE*	Mid	101.9%	110.3%	105.8%	103.6%	109.7%	107.9%				
BECKOM	Quick - Mid	112.5%	107.9%	102.1%	109.2%	99.7%	104.3%				
LRPB MUSTANG	Quick	99.0%	106.0%	95.4%	104.3%	101.8%	102.4%				
COOLAH	Mid - Slow	123.1%	84.7%	99.0%	106.2%	107.7%	100.9%				
SUNTOP	Quick - Mid	94.8%	107.4%	97.0%	99.8%	96.4%	99.8%				
SUNGUARD	Mid	97.1%	97.6%	90.6%	100.3%	96.1%	96.6%				
LRPB RELIANT	Mid	110.3%	98.3%	95.2%	104.6%	87.7%	95.3%				
LRPB HELLFIRE	Quick - Mid	92.8%	102.7%	89.1%	99.2%	89.8%	94.9%				
LRPB FLANKER	Mid	104.6%	83.2%	93.6%	105.1%	84.3%	89.8%				
LRPB SPITFIRE	Quick	84.6%	89.1%	82.9%	83.1%	94.5%	89.1%				
LRPB LINCOLN	Quick	101.8%	88.0%	92.5%	96.2%	84.3%	89.1%				
Mean	Yield	2.30	3.81	4.92	4.09	5.34	4.41				
Trials in	Analysis	2	10	4	7	11	34				

* Indicate varieties that have only been included in LRPB trials for 2 Years or less and so have a relatively high degree of prediction





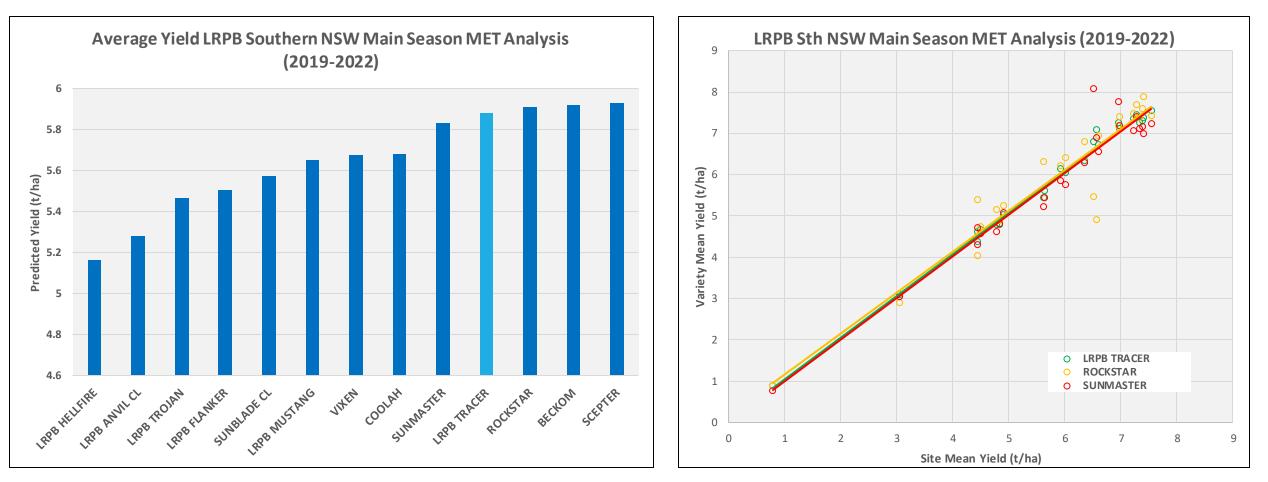
LRPB Nth NSW/QLD Main Season MET Analysis (2019-2022) Trial Year Analysis

LRPB Nth NSW/QLD Main Season MET Analysis (2019-2022)											
Variety	Maturity	2019	2020	2021	2022	All Trials					
ВЕСКОМ	Quick - Mid	110.9%	108.9%	95.8%	107.0%	104.3%					
COOLAH	Mid - Slow	91.7%	106.6%	106.8%	91.3%	100.9%					
LRPB TRACER	Mid	107.1%	104.9%	115.1%	111.4%	110.3%					
LRPB FLANKER	Mid	84.0%	98.5%	84.9%	87.0%	89.8%					
LRPB HELLFIRE	Quick - Mid	108.5%	99.5%	89.9%	93.4%	94.9%					
LRPB LINCOLN	Quick	94.9%	94.7%	82.8%	88.9%	89.1%					
LRPB MUSTANG	Quick	110.8%	106.6%	101.4%	98.4%	102.4%					
LRPB RELIANT	Mid	103.0%	103.0%	85.3%	96.3%	95.3%					
LRPB SPITFIRE	Quick	105.2%	88.9%	87.0%	89.3%	89.1%					
SUNBLADE*	Mid	108.7%	104.6%	109.0%	110.1%	107.9%					
SUNMASTER*	Mid	117.6%	108.0%	115.5%	114.5%	112.9%					
SUNTOP	Quick - Mid	107.6%	101.0%	97.6%	99.9%	99.8%					
Mean Predict	ed Yield (t/ha)	3.05	3.93	4.62	5.04	4.41					
Trials in	Analysis	2	12	10	10	34					
* Indicates Variety has only appeared in trials since 2021. 2019 and 2020 yields are predicted											





LRPB Southern NSW Main Season MET Analysis (2019-2022) Yield Regression





LRPB Tracer has shown higher average yields across Sth NSW than competitor APH varieties.



Note - Sunmaster & Sunblade first appeared in LRPB trials in 2021. As a result most yield data below 3 t/ha is predicted yield data

LRPB Southern NSW Main Season MET Analysis (2019-2022) Trial Cluster Analysis

LRPB Southern NSW Main Season Trials MET Analysis 2019-2022											
Variety	Maturity	C1 - High Septoria. High Fungicide Use Trials	C2- Low Protein 2022 Trials	C3- No Abiotic Constraint, Low Disease Trials	C4- Red Dirt. Hostile B Horizon. Low Disease Trials	Griffith 2019 Trial Long Fallow Acid Layer	All Trials				
SCEPTER	Quick Mid	103.2%	99.2%	106.2%	107.3%	111.4%	104.7%				
ВЕСКОМ	Quick Mid	99.3%	107.7%	107.1%	102.2%	104.7%	104.5%				
ROCKSTAR	Mid	83.3%	101.9%	111.0%	109.0%	95.9%	104.3%				
LRPB TRACER	Mid	107.0%	101.2%	102.9%	105.2%	102.2%	103.8%				
SUNMASTER*	Mid	114.0%	98.9%	99.8%	104.3%	100.6%	103.0%				
COOLAH	Mid Slow	101.8%	97.9%	101.3%	101.5%	85.9%	100.3%				
VIXEN	Quick	72.1%	95.4%	106.2%	107.8%	119.2%	100.2%				
LRPB MUSTANG	Quick	102.5%	93.2%	98.4%	103.6%	109.9%	99.8%				
LRPB FLANKER	Mid	100.4%	101.9%	95.9%	94.5%	85.0%	97.1%				
LRPB TROJAN	Mid	90.2%	87.8%	104.5%	98.7%	97.5%	96.5%				
LRPB HELLFIRE	Quick Mid	98.8%	86.6%	90.4%	92.3%	86.0%	91.1%				
Site Mean	Yield (t/ha)	5.76	6.43	5.13	5.95	3.02	5.67				
Trials in	Analysis	3	5	7	8	1	24				
* Indicat	te varieties that have	only been included	I in LRPB trials for 2	2 Years or less and	so have a relatively	high degree of pred	iction				





LRPB Southern NSW Main Season MET Analysis (2019-2022) Trial Year Analysis

LRPB Sth NSW Main Season MET Analysis (2019-2022)												
Variety	Maturity	2019	2020	2021	2022	All Trials						
ВЕСКОМ	Quick - Mid	110%	103%	106%	103%	105%						
COOLAH	Mid - Slow	90%	99%	103%	99%	100%						
LRPB TRACER	Mid	107%	105%	104%	102%	104%						
LRPB FLANKER	Mid	85%	92%	97%	103%	97%						
LRPB HELLFIRE	Quick - Mid	78%	91%	93%	90%	91%						
LRPB MUSTANG	Quick	116%	104%	99%	95%	100%						
ROCKSTAR	Mid	101%	109%	106%	98%	104%						
SCEPTER	Quick - Mid	121%	107%	106%	99%	105%						
SUNMASTER*	Mid	102%	103%	103%	104%	103%						
VIXEN	Quick	130%	108%	100%	90%	100%						
Site Mean	Yield (t/ha)	1.87	5.69	6.18	6.14	5.67						
Trials in	Analysis	2	7	8	7	24						
* Indicates varietie	s only included in LRPB t	trials since 2	021. 2019 a	and 2020 yie	elds are pre	dicted						













Disease

Variety	Store Duct		Strip	e Rust	Vollow Crock	Contorio tritici	Crown Dot	Prat. thornei		Powdery
variety	Stem Rust	Leaf Rust	West	East	Yellow Spot	Septoria tritici	Crown Rot	Res.	Tol.	Mildew
Beckom	MRMS	MSS	MR	MRMS	MSS	S	S	MSS	TMT	S
Boree	MR	S	MR	SVS	MRMS	SVS	S	MSS	MI	SVS
Calibre	MR	S	RMR	S	MRMS	S	S	MSS	MI	S
Catapult	MR	S	RMR	S	MRMS	MSS	MSS	MS	MT	S
Coolah	MR	RMR	RMR	MSS	MSS	MSS	MSS	MS	MT	S
Coota	RMR	MR	MR	S	MSS	S	MSS	MS	MTMI	S
RPB Tracer	*MRp	*MSSp	*MRp	*MRMSp	*Sp	*Sp	*MSSp		*TMTp	*MRMSp
RPB Flanker	MR	RMR#	RMR	MRMS	MSS	MSS	MSS	MSS	MT	MRp
RPB Hellfire	MR	MSS	RMR	MRMS	MSS	S	MSS	MSS	MI	SVS
RPB Kittyhawk	MRMS(S)	MR	RMR	MR	MRMS	MRMS	SVS	S	I	MS
RPB Lancer	R	RMR	RMR	RMR	MS	MS	MSS	MS	TMT	R
RPB Mustang	MRMS	MSS	RMR	MR	MSS	S	MSS	MSS	MTMI	MSS
RPB Nighthawk	RMR	MSS	RMR	MRMS	MS	MS	MSS	MS	MI	SVS
RPB Raider	RMR	RMR	RMR	MR	MSS	S	S	MS	MT	MSS
RPB Spitfire	MR	S	MR	MR(S)	S	S	MS	MS	MTMI	MR
RPB Stealth	R	RMR#	RMR	RMR	MS	MSS	*MS	S	MTMI	MRMS
RPB Trojan	MRMS	MR#	MR	S	MSS	S	MS	MSS	MI	S
RockStar	MRMS	S	RMR	S	MRMS	S	S	MS	MI	SVS
Scepter	MRMS	MSS	RMR	MSS	MRMS	S	MSS	MSS	MT	SVS
Sunflex	MR	RMR/S	RMR	MRMS	MS	SVS	MSS	MSS	MI	S
Sunmaster	MS	RMR#	MR	MRMS	MSS	S	S	MS	TMT	SVS
Sunmax	MRMS	MS	RMR	RMR	MSS	MSS	MSS	MS	MI	S
Suntop	MRMS	MR	MR	MRMS	MSS	MSS	MSS	MRMS	TMT	S
/ixen	MRMS	SVS	MRMS	SVS	MRMS	S	S	MS		SVS

pathotypes







Grain Quality







LRPB Nth NSW/QLD Main Season Trials 2022

Variety	Protein			Hectolitre Weight			Screenings			1000 grain weight		
variety	Average	Max	Min	Average	Max	Min	Average	Max	Min	Average	Max	Min
BECKOM	11.3	11.7	10.9	80.6	81.9	79.2	1.5	2.6	0.3	33.0	36.5	29.4
COOLAH	11.1	11.3	10.9	81.9	83.1	80.7	0.6	0.7	0.4	40.7	45.7	35.6
JANZ	11.1	11.7	10.4	79.7	82.5	76.9	3.0	4.7	1.2	33.9	38.9	28.8
LRPB TRACER	11.8	12.2	11.4	82.0	82.2	81.8	0.4	0.7	0.1	38.1	40.3	35.8
LRPB FLANKER	11.7	11.9	11.4	82.8	83.9	81.7	0.4	0.6	0.2	42.6	46.6	38.6
LRPB HELLFIRE	13.2	13.3	13.1	83.2	83.4	82.9	0.3	0.3	0.3	45.4	48.2	42.5
LRPB LINCOLN	10.6	11.0	10.2	82.2	82.2	82.2	0.9	1.4	0.3	42.2	45.1	39.2
LRPB MUSTANG	10.9	10.9	10.8	81.4	82.2	80.6	0.7	0.9	0.4	40.3	43.9	36.6
LRPB RELIANT	11.6	11.7	11.4	83.3	84.8	81.7	0.7	1.0	0.3	42.6	46.3	38.9
SUNBLADE CL	10.5	10.5	10.5	82.7	82.7	82.6	0.5	0.8	0.2	44.0	46.7	41.2
SUNGUARD	11.4	11.4	11.3	81.7	83.0	80.4	0.6	0.9	0.3	36.7	39.6	33.8
SUNMASTER	10.9	11.2	10.6	83.9	84.2	83.6	0.6	0.9	0.2	42.2	44.9	39.5
SUNTOP	10.7	10.7	10.7	82.5	82.7	82.2	1.0	1.3	0.7	41.4	42.9	39.9





LRPB Southern NSW Main Season Trials 2022

Mariatu	Protein			Hectolitre Weight			Screenings			1000 grain weight		
Variety	Average	Max	Min	Average	Max	Min	Average	Max	Min	Average	Max	Min
веском	11.2	11.4	10.9	82.6	82.8	82.3	1.8	2.9	0.7	34.8	37.2	32.3
BOREE	13.0	15.0	10.9	79.6	83.0	76.2	3.4	6.3	0.5	39.0	47.7	30.2
COOLAH	11.9	13.2	10.5	81.3	83.8	78.7	1.3	1.7	0.8	38.0	42.8	33.2
LRPB TRACER	12.1	12.7	11.5	81.2	82.1	80.2	1.4	2.4	0.3	36.9	40.2	33.5
LRPB HELLFIRE	13.1	13.4	12.7	83.9	84.0	83.8	1.3	2.1	0.4	44.1	48.4	39.8
LRPB MUSTANG	12.3	13.5	11.1	79.5	80.0	79.0	2.6	4.3	0.8	37.1	41.8	32.3
ROCKSTAR	12.3	13.5	11.1	80.9	83.2	78.5	1.6	2.5	0.6	44.0	51.9	36.0
SCEPTER	11.8	12.8	10.7	83.0	83.1	82.9	0.9	1.4	0.4	46.5	50.5	42.5
SUNBLADE CL	11.2	11.2	11.1	83.5	84.0	83.0	2.0	2.8	1.1	41.4	43.9	38.9
SUNMASTER	11.1	11.4	10.8	82.8	84.9	80.6	1.0	1.5	0.5	40.4	42.0	38.8
VIXEN	13.1	15.5	10.6	77.8	80.2	75.3	3.2	5.9	0.4	37.0	44.6	29.4





LRPB Tracer – Mid Maturity APH



LRPB Tracer is available for sowing in 2024 through our Seed Associate Network

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