

CHARACTERISTICS:

- High yielding white-grained bread wheat – consistently high yield across all 2016 and 2017 National Variety Trials in Central Queensland, ranked as either first or second for yield (t/ha) in 8 out of the 9 trials, and exceeded the yield of Suntop by at least 9% in all trials.
- Excellent straw strength
- Large kernel size (similar or larger than LRPB Spitfire)
- Good rust resistance package - adult plant resistance (slow rusting) to all three rusts.
- Similar flowering time to Suntop, but quicker from flowering to maturity (i.e. short grain filling period)
- Feed wheat – initially SEA CONDAMINE is being released as feed; however, preliminary evaluations of baking quality demonstrate excellent loaf volume and colour.

BREEDING AND EVALUATION:

SEA Condamine was bred as part of CIMMYT's international wheat breeding program, imported and evaluated in Australia by The University of Queensland, and was first entered into in the national variety testing scheme as UQ01800 in 2016.

END POINT ROYALTY:

This non-PBR variety is distributed under contract, and farmer to farmer trading of seed is not permitted. However, SEA Condamine growers will be subject to a Growers License Agreement that acknowledges that an EPR of \$3.00/tonne + GST has to be paid on all production other than seed saved for planting.

CENTRAL QUEENSLAND NVT TRIAL RESULTS - 2016

Variety	Capella			Duaringa			Jambin			Springsure			Emerald		
	Yield (t/ha)	Yield (%)	Rank all Lines	Yield (t/ha)	Yield (%)	Rank all Lines	Yield (t/ha)	Yield (%)	Rank all Lines	Yield (t/ha)	Yield (%)	Rank all Lines	Yield (t/ha)	Yield (%)	Rank all Lines
EGA Gregory	3.47	102	10	3.62	92	22	3.26	102	12	3.54	100	15	4.05	92	22
Kennedy	3.14	92	19	4.27	108	4	3.01	94	20	3.56	100	14	4.53	103	10
LRPB Reliant	4.10	120	1	4.08	103	11	3.54	111	2	3.81	108	5	4.75	108	3
LRPB Spitfire	3.10	91	20	3.76	95	17	2.88	90	24	3.43	97	17	4.44	101	12
Mitch	4.01	117	3	4.07	103	12	3.39	106	6	3.80	107	6	4.13	94	18
Suntop	3.59	105	7	4.12	104	9	3.16	99	15	3.63	102	12	4.73	108	4
SEA Condamine	4.07	119	2	4.54	115	2	3.56	111	1	4.25	120	1	5.15	117	1

Mean yield of each variety (t/ha), Yield advantage over trial mean (%), and rank for yield across all lines evaluated in each trial.

CENTRAL QUEENSLAND NVT TRIAL RESULTS - 2017

Variety	Capella			Duaringa			Jambin			Kilcummin		
	t/ha	%	rank	t/ha	%	rank	t/ha	%	rank	t/ha	%	rank
EGA Gregory	1.77	116	5	2.06	79	18	4.53	111	3	3.03	96	12
LRPB Reliant	1.57	103	9	2.48	94	13	4.33	106	5	2.98	95	14
LRPB Spitfire	1.57	103	9	2.20	84	16	3.51	86	20	3.10	99	11
Mitch	1.79	117	3	3.05	116	4	4.79	118	1	3.52	112	4
Suntop	1.65	108	7	2.82	107	8	3.92	96	14	3.37	107	6
SEA Condamine	1.89	124	2	3.21	122	3	4.76	117	2	3.76	119	1

Mean yield of each variety (t/ha), Yield advantage over trial mean (%), and rank for yield across all lines evaluated in each trial.

NVT DISEASE AND AGRONOMIC RATINGS

Variety (In maturity order, slow to quick)	Wheat Quality Australia (WQA) Maximum quality classification	Disease ratings (www.nvtonline.com.au)								Agronomy					
		Yellow spot	Crown rot	Common root rot	Root lesion nematodes				Stem rust	Leaf rust	Stripe rust	Black point	Lodging	Shattering	Sprouting resistance
					<i>P. thornei</i> tolerance	<i>P. thornei</i> resistance%	<i>P. neglectus</i> tolerance	<i>P. neglectus</i> resistance%							
EGA Gregory	APH	S	S	MSS	TMT	MSS	MT	MSS	MR	MR	MR	MS	MS	RMR	S
Mitch	AH	MS	MS	MS	MT	MSS	T (p)	S	MRMS	SVS	MR	-	MR	-	-
LRPB Reliant	APH	S	-	MS	TMT (p)	MSS (p)	MI (p)	S (p)	R	MR	MRMS	MS	MSS	MRMS	S
Kennedy	APH	MSS	S	MS	MTMI	S	MTMI	S	MR	MR	MSS	R	MRMS	RMR	S
Suntop	APH	MSS	MSS	MS	TMT	MRMS	MT (p)	MSS	MR	MRMS	MRMS	MR	MR	RMR	SVS
SEA Condamine	FEED†	MSS	S	MSS	MI	S	-	-	MRMS	MRMS	MR	-	R ^p	R ^p	S ^p
LRPB Spitfire	APH	S	MS	MSS	MTMI	MS	MTMI	MSS	MR	MSS	MR	S	MRMS	MR	S

† Released prior to submission of data for variety classification; preliminary data indicates good baking and milling quality; data will be submitted for preliminary classification in 2018

P = provisional rating; not based on official NVT data.

PRELIMINARY BAKING RESULTS (2016).

Figure 1: Loaf volume and loaf score – Duaringa and Jambin 2016.

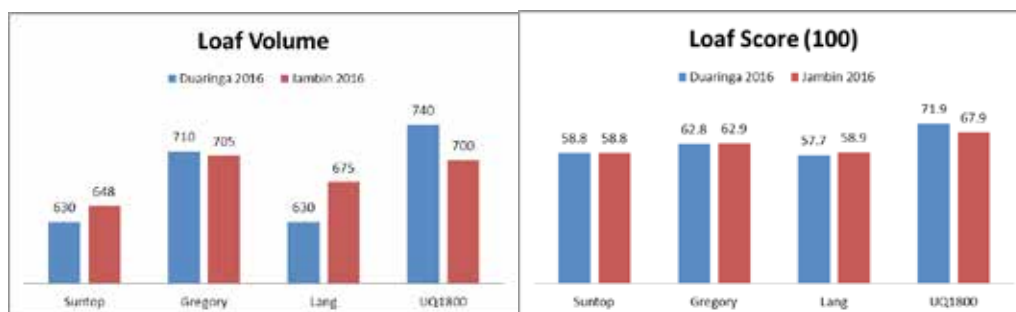


Figure 2: Comparison of loaf volume in UQ01800 to released cultivars (Rapid dough baking, LRF Toowoomba)

