

## LongReach

Version June 2011

Envoy 

APW Wheat (WA)

## VARIETY SUMMARY

- High yielding mid-long season APW & APWN wheat
- Solid grain package with low screenings and excellent grain size
- Good rust resistance to those strains common in Western Australia
- Broadly adapted to both acid and alkaline soils

 BREEDING

LongReach Envoy (LPB05-1157) is a cross made by David Bonnett in the GrainGene joint venture which was developed and evaluated by the LongReach Plant Breeders technical team led by Dr Bertus Jacobs.

 AREA OF ADAPTATION

LRPB Envoy is well adapted to the central region and south coast of Western Australia.

 YIELD

## Yield Data NVT 2009 and 2010

Variety	NVT 2009 Normalised yield (% Wyalkatchem)				NVT 2010 Normalised yield (% Wyalkatchem)			
	2	3	5	6	2	3	5	6
AgZone								
<b>LRPB Envoy</b>	<b>95</b>	<b>104</b>	<b>103</b>	<b>101</b>	<b>95</b>	<b>105</b>	<b>101</b>	<b>104</b>
Calingiri	91	106	94	95	91	103	105	112
Carnamah	94	99	98	95	94	100	103	101
Mace	102	112	105	103	104	108	111	110
Magenta	98	107	95	93	95	100	101	120
Scout	84	112	105	106	-	110	108	119
Westonia	99	106	95	93	96	111	108	109
Wyalkatchem	100	100	100	100	100	100	100	100
Yitpi	89	103	97	93	95	98	106	116
Wyalkatchem mean yield	2.65 t/ha	3.71 t/ha	2.07 t/ha	3.58 t/ha	1.76 t/ha	2.70 t/ha	1.69 t/ha	2.56 t/ha
No. trials	12	4	6	3	12	5	6	3

 MATURITY

Mid-long season in maturity ranging between Carnamah and Magenta.

 PLANT CHARACTERISTICS

Awne semi-dwarf, white chaff wheat with medium plant height at maturity. Mid-long season maturity suiting a May planting.

 DISEASE RESISTANCE

Provides good rust resistance to stripe, leaf and stem races common in Western Australia. LRPB Envoy is susceptible to Yellow leaf spot and Crown rot, moderately resistant to CCN and moderately tolerant to RLN (*P. thorneii*).

 GRAIN QUALITY

LRPB Envoy has APW classification in Western Australia and is also eligible for the APWN grade. LRPB Envoy has large plump grain and performs very well in tight finishes. Screenings, grain weight and test weight over a range of seasons and environments in Western Australia have been similar to Wyalkatchem.

 **GRAIN RECEIVAL QUALITY****Grain Receival Quality Data NVT 2009**

Variety	Screenings (2.0mm sieve)				Hectolitre weight (kg/hl)				Protein (%)				
	AgZone	2	3	5	6	2	3	5	6	2	3	5	6
<b>LRPB Envoy</b>		<b>3.0</b>	<b>2.4</b>	<b>2.1</b>	<b>1.4</b>	<b>79.3</b>	<b>80.4</b>	<b>81.2</b>	<b>78.2</b>	<b>11.3</b>	<b>10.6</b>	<b>12.5</b>	<b>12.3</b>
Calingiri		2.2	1.4	1.4	0.8	76.8	78.0	77.7	77.4	10.9	10.7	11.7	12.1
Carnamah		2.6	3.2	2.4	1.0	74.8	76.0	77.5	76.7	11.1	10.9	11.8	11.6
Mace		3.2	2.8	2.7	1.4	77.1	78.6	78.8	76.0	10.7	11.0	11.9	11.8
Magenta		3.8	3.4	3.5	2.1	76.3	79.6	77.5	75.3	11.1	10.7	12.5	12.2
Scout		5.1	2.8	3.1	1.0	74.1	78.8	78.7	79.4	10.9	10.7	11.5	11.2
Westonia		3.7	3.6	5.0	1.3	72.9	75.8	76.0	74.4	10.9	11.0	11.7	11.4
Wyalkatchem		2.4	1.7	2.6	0.9	75.5	77.5	77.9	77.9	11.2	11.7	12.1	12.0
Yitpi		4.1	4.1	2.7	1.6	75.9	77.1	79.2	76.3	11.4	10.9	12.2	11.7
No. trials		12	4	6	3	12	4	6	3	12	4	6	3

**Grain Receival Quality Data NVT 2010**

Variety	Screenings (2.0mm sieve)				Hectolitre weight (kg/hl)				Protein (%)				
	AgZone	2	3	5	6	2	3	5	6	2	3	5	6
<b>LRPB Envoy</b>		<b>5.8</b>	<b>1.4</b>	<b>3.4</b>	<b>1.6</b>	<b>79.4</b>	<b>79.8</b>	<b>78.8</b>	<b>78.0</b>	<b>13.0</b>	<b>12.0</b>	<b>13.0</b>	<b>12.5</b>
Calingiri		5.7	1.2	2.8	3.1	77.3	77.5	78.0	75.6	12.8	11.5	11.9	11.9
Carnamah		6.9	3.4	3.9	2.8	76.1	75.6	76.3	73.9	12.5	11.5	12.2	13.4
Mace		6.8	2.5	2.6	1.3	78.1	77.6	76.6	76.1	12.1	10.9	12.0	12.9
Magenta		7.6	2.3	3.7	2.3	77.6	76.3	78.7	76.8	12.8	11.9	12.2	11.8
Scout		-	1.8	4.5	2.5	-	78.4	77.7	76.3	-	10.7	11.6	11.6
Westonia		7.4	2.8	3.9	2.3	75.8	74.7	75.5	73.6	12.2	11.7	11.6	12.6
Wyalkatchem		4.6	1.5	3.3	1.1	77.5	77.2	76.1	76.9	12.6	12.2	12.7	13.0
Yitpi		7.4	1.9	4.0	3.5	77.1	78.6	77.1	75.3	12.8	11.7	12.1	11.8
No. trials		12	5	6	3	12	5	6	3	12	5	6	3

 **PLANT BREEDER RIGHTS AND ROYALTIES**

LRPB Envoy is protected by Plant Breeders Rights. An End Point Royalty (EPR) of \$3.08 per tonne (GST inclusive), which includes breeder royalties, applies to this variety. The EPR revenue will be invested directly back into the LongReach Plant Breeders program.

**ACKNOWLEDGEMENTS**

LRPB Envoy was developed with the assistance of numerous independent professional contract service providers and public agent researchers. The support of farmer co-operators in all parts of the Australian wheat belt who have provided trial sites since 2003 is also acknowledged.



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