

## MEMORANDUM

**TO:** Prairie Recommending Committee for Pulse and Special Crops  
**FROM:** K.E. Bett, J. Horner, S. Wagenhoffer, T. Warkentin, B. Taran, and B. Barlow  
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**DATE:** February 15, 2026  
**SUBJECT:** Request for Support for Registration of Pinto Bean 6329CBB-4-1

Breeding line 6329CBB-4-1 was tested in the SSNR Trials in 2024 and 2025. It is derived from a cross between Two Pinto breeding lines and selected repeatedly for seed colour, size and agronomic characters. The last cross was made in winter 2018.

It has much higher yield than the check CDC WM-3 as well as the RD check Island. The days to maturity were longer than CDC WM-3 but the same as Island. The plants are upright, indeterminate and have higher pod clearance than the check. Seeds are similar in size to the check. It is resistant to both races of anthracnose. It had similar white mould scores to the check. The cooking scores and canning results appeared not as good as the check but given the LSDs it was quite similar.

### Strengths

- Much higher yielding than the check, CDC WM-3
- Better pod clearance than the check

### Neutral Traits

- Resistant to anthracnose same as the check
- Similar seed size to the check
- Later maturity than the check CDC WM-3 but similar to Island

### Weaknesses

- Quality scores were not as good as the check



## Performance data

**Table 1: Two year agronomic performance data for the 2024-2025 Short Season Narrow Row Dry Bean Co-operative Trial "B" in western Canada**

Line	Market Class	Yield(kg/ha)			% of MC-C	Days to flower			Days to mature			Pod Clearance (%)		
		[4]		[4]		[3]		[5]	[4]		[4]	[3]		[3]
		2024	2025	Mean		2024	2025	Mean	2024	2025	Mean	2024	2025	Mean
<b>CDC WM-3</b>	Pinto/SD	2205	2992	2599	100	55	58	57	99	102	100	70	69	69
6329CBB-4-1	Pinto/SD	3157	4043	3600	139	57	60	59	103	105	104	75	78	77

**Bold** indicates Market class check variety  
**[ ]** Indicates number of sites  
 MC-C = Market class check

Line	Market Class	Plant Height (cm)			Seed Weight (g/1000)			Lodging (1-3)		
		[2]		[3]	[3]		[3]	[3]		[3]
		2024	2025	Mean	2024	2025	Mean	2024	2025	Mean
<b>CDC WM-3</b>	Pinto/SD	55	49	51	353	357	355	1.4	1.4	1.4
6329CBB-4-1	Pinto/SD	58	53	55	372	347	359	1.2	1.2	1.2

**Bold** indicates Market class check variety

**Table 2. Mean Anthracnose Severity of Saskatchewan Short Season Narrow Row Co-operative Trial "B" in western Canada**

Means followed by the same letter did not significantly differ (LSD<sub>0.05</sub>)

Entry	Cultivar	Class	Race 73								Race 105			
			2024				2025				2024		2025	
			Test #1		Test #2		Test #1		Test #2		Test #1		Test #1	
			Est.	Rank	Est.	Rank	Est.	Rank	Est.	Rank	Est.	Rank	Est.	Rank
1	Island	Pinto	4.9		5.8	abd	4.7	abd	6.3	ad	4.8		3.3	abd
2	<b>CDC WM-3</b>	<b>PT-SD</b>	<b>0.0</b>	<b>ac</b>	<b>0.0</b>	<b>ac</b>	<b>0.3</b>	<b>bc</b>	<b>0.5</b>	<b>b</b>	<b>0.1</b>	<b>abcd</b>	<b>0.3</b>	<b>abd</b>
5	6329CBB-4-1	PT-SD	0.0	ac	0.0	ac	0.8	bc	0.3	b	0.5	abcd	0.0	abd
	Envoy		0.0	ac	0.0	ac	0.0	bc	0.0	b	7.0		9.0	c
	AC Pintoba		8.7	bd	8.3	bd	9.0	ad	9.0	acd	8.2		8.0	
	Othello		7.0	bd	6.1	bd	6.3	ad	3.2	b	4.5		3.9	a
	Dresden		0.0	ac	0.0	ac	0.0	bc	0.0	b	7.9		8.0	
	Num DF		21		21		22		22		21		22	
	Den DF		44		42		46		46		44		46	
	F Value		8.61		43.02		21.18		15.91		13.11		11.54	
	Pr>F		<.0001		<.0001		<.0001		<.0001		<.0001		<.0001	
	LSD(0.05)		3.3		1.8		2.2		2.7		2.5		2.9	

**Table 3. White Mold data for entries in the 2025 Short Season Narrow Row Dry Bean Co-operative Trial "B" in western Canada**

Name	Type	Years in Trial	2024 SSNRB Trial		2025 SSNRB Trial	
			Incidence (%)	Index (1-4)	Incidence (%)	Index (1-4)
<b>Island</b>	<b>Pinto</b>	<b>MC-C</b>	<b>100</b>	<b>2.3</b>	<b>100</b>	<b>3.2</b>
<b>CDC WM-3</b>	<b>Pinto/SD</b>	<b>MC-C</b>	<b>96</b>	<b>2.3</b>	<b>99</b>	<b>3.0</b>
6329CBB-4-1	Pinto/SD	2	96	2.2	94	2.5
<b>I9365-31</b>		Disease check	84	1.9	88	2.5
<b>Othello</b>	Pinto	Disease check	92	2.1	97	2.9
<b>Pintium</b>	Pinto	Disease check	88	2.1	98	3.2
<b>CV</b>			4.9	10.4	5.4	9.0
<b>LSD(0.05)</b>			6.6	0.3	7.4	0.4

Severity index (1-4): 1 = healthy, 4 = dead

**Table 4. Cooking and Canning Quality Evaluation of Select Dry Bean Lines in the 2025 Short Season Narrow Row Dry Bean Cooperative Trial in western Canada**

Genotype	Canning quality													Cooking quality				
	Hydration Co-efficient						Dry color			Canned color			Texture (kg force)	16 h at 21°C		20 min at 93°C		
	HCS (16 h, 21°C)	HCB (3 min, 93°C)	Drained Wt. (%)	Matting (1 to 5)	Appearance (1 to 5)	Seed Integrity (1 to 5)	L*	a*	b*	L*	a*	b*		Hard seed (%)	Partially hydrated seed (%)	Hard seed (%)	Partially hydrated seed (%)	
<b>Pinto</b>																		
CDC WM3	2.2	2.3	64.2	2	3	3	54.6	4.3	11.3	39.9	11.2	16.7	30.9	3.8	2.5	0.0	0.0	
<b>6329CBB-4-1</b>	<b>1.7</b>	<b>1.9</b>	<b>63.4</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>54.4</b>	<b>4.5</b>	<b>12.2</b>	<b>38.5</b>	<b>13.4</b>	<b>18.8</b>	<b>41.8</b>	<b>18.8</b>	<b>12.0</b>	<b>0.0</b>	<b>5.0</b>	
LSD (0.05)	0.3	0.2	23.1	2	1	1	2.7	0.4	0.7	4.4	1.9	2.0	14.2	33.9	13.3	0.2	15.6	
<b>CV</b>	<b>6.6</b>	<b>4.6</b>	<b>15.8</b>	<b>37.5</b>	<b>23.5</b>	<b>13.2</b>	<b>2.1</b>	<b>8.8</b>	<b>2.0</b>	<b>4.3</b>	<b>8.6</b>	<b>4.9</b>	<b>15.5</b>	<b>57.7</b>	<b>47.6</b>	<b>447.2</b>	<b>196.3</b>	