

Field Trial Results 2011-2023

XiteBio® PulseRhizo® vs. Competitors on Peas

Year	State/Province	Location/ Operator	Competitor (bu/ac)	XiteBio®PulseRhizo® (bu/ac)	Increase over competitor (bu/ac)	% Increase over competitor
2011	Montana	Groves ¹	17.8	18.3	0.5	2.7
2011	Montana	Groves ¹	17.1	18.3	1.2	6.6
2011	Montana	Groves ¹	17	18.3	1.3	7.1
2011	Montana	Groves ¹	18.8	18.3	-0.5	-2.7
2011	Montana	Groves ¹	18	18.3	0.3	1.6
2011	Montana	Mocasin ¹	16	16.5	0.5	3.0
2011	Montana	Mocasin ¹	17.4	16.5	-0.9	-5.5
2011	Montana	Mocasin ¹	14.9	16.5	1.6	9.7
2011	Montana	Mocasin ¹	15.6	16.5	0.9	5.5
2011	Montana	Mocasin ¹	16.4	16.5	0.1	0.6
2012	North Dakota	Minot ²	29.9	28.2	-1.7	-6.0
2012	North Dakota	Makotia ²	20.6	22.4	1.8	8.0
2012	Montana	Groves ¹	30.4	30.5	0.1	0.4
2012	Montana	Groves ¹	28.9	30.5	1.6	5.3
2012	Montana	Groves ¹	22.9	30.5	7.6	24.9
2012	Montana	Groves ¹	30.3	30.5	0.2	0.6

Source: ¹ Montana State University, ² North Dakota State University, ³ Cavalier Agrow, ⁴ 3rd Party Research, ⁵ Hamman Ag Research



For more information, visit www.xitebio.ca or call toll-free 1-855-XITEBIO (1-855-948-3246)

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2012	Montana	Groves ¹	32.7	30.5	-2.2	-7.2
2012	Montana	Groves ¹	29.7	30.5	0.8	2.5
2012	Montana	Groves ¹	31.7	30.5	-1.18	-3.9
2012	Montana	Groves ¹	28.4	30.5	2.1	6.9
2012	Montana	Groves ¹	31.8	33.8	2.0	5.8
2012	Montana	Groves ¹	28.6	33.8	5.2	15.4
2012	Montana	Groves ¹	23.4	33.8	10.4	30.7
2012	Montana	Groves ¹	33.3	33.8	0.5	1.5
2012	Montana	Groves ¹	27.3	33.8	6.6	19.4
2012	Montana	Groves ¹	23.9	33.8	9.9	29.2
2012	Montana	Groves ¹	28.9	33.8	5.0	14.6
2012	Montana	Groves ¹	26.8	33.8	7.0	20.6
2012	Montana	Moccasin ¹	17.9	17.0	-0.9	-5.3
2012	Montana	Moccasin ¹	18.5	17.0	-1.5	-8.5
2012	Montana	Moccasin ¹	16.8	17.0	0.3	1.5
2012	Montana	Moccasin ¹	18.2	17.0	-1.2	-7.1

Source: ¹ Montana State University, ² North Dakota State University, ³ Cavalier Agrow, ⁴ 3rd Party Research, ⁵ Hamman Ag Research



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2012	Montana	Moccasin ¹	17.8	17.0	-0.8	-4.9
2012	Montana	Moccasin ¹	16.8	17.0	0.2	1.2
2012	Montana	Moccasin ¹	17.7	17.0	-0.7	-3.8
2012	Montana	Moccasin ¹	15.8	17.0	1.2	6.9
2012	North Dakota	Carrington ²	53.3	55.1	1.8	3.3
2012	North Dakota	Carrington ²	53.2	55.1	1.9	3.4
2012	North Dakota	Carrington ²	50.6	55.1	4.5	8.2
2012	North Dakota	Carrington ²	53.1	55.1	2	3.6
2012	North Dakota	Carrington ²	51.8	55.1	3.3	6.0
2012	North Dakota	Carrington ²	50.3	55.1	4.8	8.7
2013	Montana	Mocassin ¹	16.9	15.7	-1.2	-7.6
2013	Montana	Mocassin ¹	16.9	15.7	-1.2	-7.6
2013	Montana	Mocassin ¹	18.2	15.7	-2.5	-15.9
2013	Montana	Mocassin ¹	18.1	15.7	-2.4	-15.3
2013	Montana	Mocassin ¹	17.3	15.7	-1.6	-10.2
2013	Montana	Mocassin ¹	15.5	15.7	0.2	1.3

Source: ¹ Montana State University, ² North Dakota State University, ³Cavalier Agrow, ⁴3rd Party Research, ⁵Hamman Ag Research



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2013	Montana	Mocassin ¹	15.7	15.7	0.0	0.0
2013	Montana	Groves ¹	20.6	22.4	1.8	8.0
2013	Montana	Groves ¹	19.6	22.4	2.8	12.5
2013	Montana	Groves ¹	21.8	22.4	0.6	2.7
2013	Montana	Groves ¹	21.4	22.4	1.0	4.5
2013	Montana	Groves ¹	21.2	22.4	1.2	5.4
2013	Montana	Groves ¹	22.3	22.4	0.1	0.4
2013	Montana	Groves ¹	22	22.4	0.4	1.8
2013	Montana	Groves ¹	21.1	22.4	1.3	5.8
2013	Montana	Groves ¹	23.0	22.4	-0.6	-2.7
2013	North Dakota	Carrington ²	33.9	36.6	2.7	7.4
2013	North Dakota	Carrington ²	32.3	36.6	4.3	11.7
2013	North Dakota	Carrington ²	35.3	36.6	1.3	3.6
2013	North Dakota	Carrington ²	37.5	36.6	-0.9	-2.5
2015	Saskatchewan	Meota ³	55.4	61.7	6.3	10.2
2015	Saskatchewan	Meota ³	41.6	44.0	2.4	5.5

Source: ¹ Montana State University, ² North Dakota State University, ³Cavalier Agrow, ⁴3rd Party Research, ⁵Hamman Ag Research



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Year	State/Province	Location/ Operator	Competitor (bu/ac)	XiteBio® PulseRhizo® (bu/ac)	Increase over competitor (bu/ac)	% Increase over competitor
2015	Saskatchewan	Meota ³	10.9	14.9	4	26.8
2015	Saskatchewan	Meota ³	60.0	60.8	0.8	1.3
2015	Saskatchewan	Medstead ³	64.1	63.9	-0.2	-0.3
2015	Saskatchewan	Medstead ³	61.8	65.7	3.9	5.9
2015	Saskatchewan	Medstead ³	63.2	65.7	2.5	3.8
2015	Saskatchewan	Medstead ³	64.5	65.7	1.2	1.8
2015	Saskatchewan	Medstead ³	63.8	62.7	-1.1	-1.8
2015	Saskatchewan	Medstead ³	61.7	62.7	1	1.6
2015	Saskatchewan	Medstead ³	64.5	62.7	-1.8	-2.9
2015	Saskatchewan	Medstead ³	73.4	68.8	-4.6	-6.7
2015	Saskatchewan	Medstead ³	73.3	68.8	-4.5	-6.5
2015	Saskatchewan	Medstead ³	73.0	68.8	-4.2	-6.1
2015	Saskatchewan	Medstead ³	39.5	38.4	-1.1	-2.9
2015	Saskatchewan	Medstead ³	39.8	41.8	2	4.8
2015	Saskatchewan	Medstead ³	38.1	31.4	-6.7	-21.3
2015	Saskatchewan	Spiritwood ³	41.0	48.2	7.2	14.9

Source: ¹ Montana State University, ² North Dakota State University, ³ Cavalier Agrow, ⁴ 3rd Party Research, ⁵ Hamman Ag Research



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Year	State/Province	Location/ Operator	Competitor (bu/ac)	XiteBio®PulseRhizo® (bu/ac)	Increase over competitor (bu/ac)	% Increase over competitor
2015	Saskatchewan	Spiritwood ³	46.8	47.5	0.7	1.5
2015	Saskatchewan	Spiritwood ³	67.3	65.0	-2.3	-3.5
2015	Saskatchewan	Meadow Lake ³	32.9	31.9	-1.0	-3.1
2016	Saskatchewan	Imperial ⁴	56.0	60.0	4.0	6.7
2016	Saskatchewan	Imperial ⁴	52.0	56.0	4.0	7.1
2016	Saskatchewan	Leroy ⁴	45.0	44.0	-1.0	-2.3
2016	Saskatchewan	Meota ³	43.3	44.7	1.4	3.1
2016	Saskatchewan	Meadow Lake ³	48.8	57.0	8.2	14.4
2016	Alberta	Bowden ⁴	66.0	71.0	5	7.0
2017	Saskatchewan	Saskatoon ⁴	69.9	75.0	0.85	6.8
2021	Alberta	Lethbridge ⁵	86	84	-2	-2.3
2021	Alberta	Lethbridge ⁵	81	84	3	4.2
2021	Alberta	Lethbridge ⁵	88	93	5	5.0
2021	Alberta	Lethbridge ⁵	88	93	5	5.1
2021	Alberta	Didsbury ⁵	30	31	1	3.3

Source: ¹ Montana State University, ² North Dakota State University, ³ Cavalier Agrow, ⁴3rd Party Research, ⁵Hamman Ag Research



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2021	Alberta	Didsbury ⁵	35	31	-4	-11.4
2021	Alberta	Didsbury ⁵	28	27	-1	-3.6
2021	Alberta	Didsbury ⁵	33	27	-6	-18
2021	Manitoba	Minto ⁵	37.5	41.3	3.8	9.2
2022	Saskatchewan	Arcola ³	69.0	75.0	6.0	8.0
2023	Alberta	Vulcan ⁶	16.8	18.0	1.2	6.7
2023	Alberta	DeBolt ⁷	112.4	112.1	-0.3	-0.2

Source: ¹ Montana State University, ² North Dakota State University, ³Cavalier Agrow, ⁴3rd Party Research, ⁵Hamman Ag Research

⁶Small Plot Inc. , ⁷SARDA



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XiteBio® PulseRhizo® vs. Competitors on Peas Average by Year

Year	Competitor (bu/ac)	XiteBio® PulseRhizo® (bu/ac)	Increase over competitor (bu/ac)	% Increase over competitor (bu/ac)
2011	16.9	17.4	0.5	2.9
2012	30.0	32.2	2.2	6.8
2013	22.5	22.9	0.4	1.7
2015	54.1	54.3	0.2	0.4
2016	51.9	55.5	3.6	6.5
2017	69.9	75	5.1	6.8
2021	56.3	56.8	0.5	0.9
2022	69.0	75.0	6	8
2023	64.6	65.1	0.5	0.8
Total	48.4	50.5	2.1	4.3