

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

AC[®] Argus Yellow Field Pea



Description:

AC[®] Argus is a semi-leafless, high yielding, powdery mildew resistant, yellow field pea with improved lodging tolerance. AC[®] Argus is well-suited to all growing regions that produce yellow field peas.

Parentage: CDC Mozart / MP1763

Strengths:

- 11% higher yielding than Eclipse and 5% higher yielding than Cutlass over 19 station years of Cooperative registration trials 2006-2007
- Better lodging resistance than Cutlass
- 1 day earlier than Eclipse

Neutral Traits:

- Disease resistance is equal to the check varieties Cutlass and Eclipse
- Protein level and cooking test is equal to the check varieties Cutlass and Eclipse

Weaknesses:

- Seed shape slightly less spherical than Cutlass and Eclipse
- Seed coat breakage slightly higher than Cutlass and Eclipse

Breeder:

Dr. Deng-jin Bing
Agriculture and Agri-Food Canada
Lacombe, AB

2006-2007 Field Pea Cooperative Registration Trials

Variety	Yield kg/ha	% Yield Cutlass	Maturity (days)	Vine Length (cm)	Pre-harvest lodging score (1=upright, 9=flat)	Seed weight (mg)	Seed shape (1=round, 5=cube)	Seed coat breakage (%)	Protein	Seed Color
Eclipse	4482	95	90	71	4.0	227	3.3	5.0	24.5	Y
Cutlass	4737	100	89	72	4.9	222	3.2	4.8	24.0	Y
CDC Striker	4131	87	89	76	3.8	226	2.5	2.8	26.1	G
Cooper	4600	97	92	68	3.9	252	2.9	9.2	24.7	G
AC [®] Argus	4964	105	89	77	3.5	231	3.7	8.9	24.2	Y

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For more information, call 1-800-665-7333 or visit www.secan.com

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2012 Seed Manitoba - Pea Comparison

Variety	Yield (% Cutlass)	Site Years Tested	Maturity Rating	Vine Length Rating	Seed Size (mg)	Resistance to:						
						Green ¹ seed coats	Lodging	Powdery Mildew	Mycosphaerella blight	Fusarium ² wilt	Seed coat breakage	Seed ³ coat dimpling
Cutlass	100	52	M (99 days)	M (34")	220	G	G	VG	F	G	F	F
AC® Reward	103	18	M	M	240	---	G	VG	F	F	G	---
CDC Meadow	110	36	E	M	220	G	G	VG	F	F	G	G
Eclipse	106	43	M	M	250	G	G	VG	F	F	G	F
Thunderbird	106	24	M	M	220	---	G	VG	F	F	G	---
AC® Argus	109	8	M	M	230	---	G	VG	F	F	F	---

F=Fair; G=Good; VG=Very Good

- Green seed coats: G = 0-10%; F = 11-25%
- Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains
- Seed coat dimpling rating: VG = 0-5%, G = 6-20%, F = 21-50%

2012 SaskSeed Guide - Pea Comparison

Variety	Years Tested	Yield as a % Cutlass			Leaf Type ¹	Relative Maturity	Vine Length (cm)	Resistance to:					Seed ² coat dimpling	Green ³ seed coat	Seed Size (g/1000)
		1, 2 & South 3	North 3 & 4	Irrigation				Mycosphaerella blight	Powdery Mildew	Fusarium wilt	Seed coat breakage	Lodging 1-9			
Cutlass	12	100	100	100	SL	M (90 days)	75	F	VG	F	F	5	F	G	220
AC® Reward	5	98	107	108	SL	M	90	F	VG	F	G	4	G	F	240
CDC Meadow	9	107	109	108	SL	E	85	F	VG	F	G	4	G	G	220
Eclipse	11	98	98	101	SL	M	80	F	VG	P	G	4	F	G	250
Thunderbird	6	106	106	108	SL	M	85	F	VG	F	G	4	G	F	220
AC® Argus	4	110	114	113	SL	M	80	F	VG	F	F	4	F	G	230

F=Fair; G=Good; VG=Very Good Lodging 1 = Completely Upright, 9 = Completely Lodged

- Leaf Type: N = Normal; SL = semi-leafless
- Seed coat dimpling: VG = 0-5%; G = 6-20%; F = 21-50%
- Green seed coats: Good = 0-10%; Fair = 11-25%

2012 Alberta Seed Guide - Pea Comparison

Variety	Yield (% Cutlass)	Total Station years tested	Maturity Rating	Vine Length (cm)	Seed Size (g/1000)	Standability ¹ (1=E - 9=F)	Resistance to:					
							Powdery Mildew	Myc. Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling	Green Seed Coat
Cutlass	100	144	M	71	229	3.9	VG	F	F	F	F	G
AC® Reward	101	39	M	76	248	2.5	VG	F	F	G	VG	F
CDC Meadow	108	69	E	82	214	3.1	VG	F	F	G	G	G
Eclipse	102	136	M	69	252	3.0	VG	F	F	G	F	G
Thunderbird	97	39	M	76	228	2.1	VG	F	F	G	VG	---
AC® Argus	105	29	M	76	227	4.1	VG	F	F	F	F	G

P= Poor; F= Fair; G=Good; VG=Very Good; E=Early; M=Medium; L=Late

- Standability: 1 = erect, 9 = flat

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