NEW YORK STATE 2014 PROCESSING SNAP BEAN CULTIVAR TRIAL REPORT Large Sieve Bean – 3-4 Sieve Bean – Whole Bean

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Additional Comments - Large Sieve Beans (in order of maturity)

Venture – early season standard, poor plant habit, long, rough, round to creased pods, at least 30% six sieve pods and also roughly 30% sixe sieve pods, very good yield. **Accelerate** – earlier maturity, decent plant habit, loaded with pods, long round to creased, straight pods, very good yield.

6159 – earlier maturity, good plant habit, good set, long, straight, uniform pods, good yield.

BA0999 – earlier maturity, decent plant habit, round, straight pods, very good to excellent yield.

SV1098GV - decent plant habit, long, round pods, excellent yield.

4641 – very good plant habit, shorter, straight pods, still had lots of three sieve pods, very good yield.

4644 – very good plant habit, straight, round pods, excellent yield.

GB60R – basically no change in sieve distribution, seed size or yield over three days, plant habit needs to be better, round to oval, straight pods, very good yield.

GB 39-1 – plant habit needs to be better, at least 30% five sieve, round, straight pods, very good yield.

6137 – decent plant habit, very long, straight pods found high on the plant, at least 30% five sieve, very good to excellent yield.

Huntington – good plant habit, large sieve industry standard, round to creased pods found in the middle of the plant, excellent yield.

BA1001 – industry standard, plant habit could be a bit better, at least 30% five sieve, long, round, straight pods, excellent yield.

Pismo – good plant habit, round to creased, straight pods, at least 30% five sieve, excellent yield.

2012B512 – good plant habit, very nice plant and pod package, more of a four sieve bean (very few five sieve), very good yield.

Silverado – late maturity, very good plant habit, long, straight pods, very good yield (probably could have been harvested one more time).

Golden Goal (wax) – plant habit could be better, long, round pods, at least 30% five sieve, poor yield (split set).

Chisolm – late season, very good plant habit, good set, very long, round pods, at least 30% five sieve, seed sizes up slowly, very good yield.

Additional Comments (3-4 sieve)

Many of these cultivars should have been harvested a few days later but the hail event knocked down many of the plants and caused injury to the pods. This would have resulted in major rot issues if they had not been harvested.

6140 – long pods that were a bit lighter green than most others, good yield (roughly 20-30% five sieve and a few sixes – should have been planted in large sieve trial).

SV1136GF – medium to dark green, long, straight pods found high on the plant, roughly 20% five sieve pods, good yield.

BSC898 – plants knocked down by hail, pods glossy, a hint of fiber, pods high on the plant, pods mostly three – four split (15-20% fives), good yield.

HMX2117 – plants knocked down by hail, long, dark green, straight, glossy pods found high on the plant, roughly 15% five sieve, very good yield.

Wyatt – plant/pod package quite nice, glossy, uniform pods, a bit of fiber, very straight pods, long pods, high yield.

Achiever – dark green, straight, glossy pods, a hint of fiber, high percentage of four sieve pods with 10-15% five sieve, good yield.

Ambition – plants knocked down by hail, long, dark green, straight, glossy pods, hint of fiber, pods high on the plant.

Bison – decent plant habit dark green, straight pods, 10-15% five sieve, very good yield. **Cabot** – dark green, long, straight, glossy pods, a hint of fiber, pods high on the plant, 10-15 % five sieve, decent yield.

BA0958 – plants knocked down by hail, dark green, round to oval, glossy, straight pods found high on the plant, about 10% five sieve, very good yield.

Bowie – good plant habit, dark green, uniform, straight pods found high on the plant, a hint of fiber, about 10% five sieve, very good yield.

Sybaris – plants knocked down by hail, dark green, round pods found high on the plant, most pods were three - <u>four</u> sieve with a few five sieve, very good yield.

BA1006 – decent plant habit with pods high on the plant, shorter, dark green, straight pods, good yield.

Sony – plants knocked down by hail, medium green, shorter, very straight pods found high on the plant, very good yield.

Caprice – commercial standard, good plant habit, most four sieve with a few five sieve, glossy, straight pods, very good yield.

2011B515 – a hint of fiber, higher percentage of culls, dark green, shorter, straight pods found high on the plant, did not yield.

Messi – very good plant habit, long, straight, glossy pods, hint of fiber, good plant/pod package but lower yield, mostly a three four sieve distribution.

2219 – very good to excellent plant habit, shorter, medium to dark green, straight pods, even distribution of 2-3-4 sieve pods good yield.

7343 – plants knocked down a bit, medium to dark green, straight pods found high on the plant, even distribution of 2-3-4 sieve pods, good yield.

Baltimore – good plant habit, long, dark green, glossy, very straight pods found high on the plant, plant/pod package very good, good yield.

BSC897 – plants knocked down by hail, a bit of fiber, medium green, round to oval, straight pods found high on the plant, distribution of two, three and four sieve pods, decent yield.

Addition comments 3-4 sieve continued:

Napoleon – plants knocked down by hail, good set, short, straight, very uniform pods, good yield.

Pike – plants knocked down by hail, dark green, shorter, uniform, straight pods, a hint of fiber, even distribution of two, three and four sieve pods, good yield.

2012B525 – decent plant habit, smaller sieve (mostly two and three sieve pods), round to oval, straight pods, did not yield.

Rimember – decent plant habit, pods dark green, straight, quite uniform pods found high on the plant, very good yield.

Comper – decent plant habit, smaller sieve (mostly two and three sieve), short, quite uniform, straight pods found high on the plant, good yield.

Cassidy – decent plant habit, dark green, shorter, round, straight, uniform pods, even distribution of two, three and four sieve pods, very good yield.

Flavor Sweet – small sieve, shorter, straight pods found high on the plant, decent yield.

ASR1302 – plants knocked down by hail, smaller sieve (mostly 3 sieve), medium green, shorter, straight pods found high on the plant, decent yield.

Oakley – plants knocked down by hail, small sieve (should have been planted in whole bean trial), dark green, uniform, straight pods, good yield for smaller sieve.

Additional Comments - Whole Bean

SWB 75-1 – acceptable plant habit, a 30% three sieve, shows seed bumps even when immature, round to oval, straight pods, pod color just a bit lighter than others, good yield.

Kendo – late season, good plant habit, about 30% three sieve, round, dark green, straight pods, good yield.

SWB 2-1 – good plant habit, medium to dark green, very straight pods located high on the plant, round to oval shape, mostly two sieve, pods a bit longer than others, good yield.

Masai – very good to excellent plant habit, good set, medium to dark green, uniform, straight pods, good yield.

Polder – very good plant habit, good set, round to oval, straight pods, mostly two sieve, good yield.

We wish to thank the NYS Vegetable Research Council and Association, Ontario Processing Vegetable Growers and cooperating seed companies for their financial support of the project. Please direct any questions to the following: 315-787-2223 jwb2@cornell.edu(email)

Table 1 - Processing Snap Bean Cultivar List

Large Sieve

Large Sieve	
Venture std	Syngenta
Accelerate	Pure Line
6159	A&C
BA0999	Seminis
SV1098GV	Seminis
4641	Syngenta
4644	Syngenta
GB60R	Pure Line
GB 39-1	Pure Line
6137	A&C
Huntington (std)	Syngenta
BA1001	Seminis
Pismo (SB4556)	Syngenta
2012B512	Brotherton
Silverado	Crites
Golden Goal (PV833)	Crites (wax)
Chisolm	НМ

3-4 Sieve

6140	A&C
SV1136GF	Seminis
BSC898	Brotherton
HMX 2117	НМ
Wyatt	НМ
Achiever	Syngenta
Ambition	Syngenta
Bison (PV801)	Crites
Cabot	НМ

3-4 Sieve Continued

3-4 Sieve Coli	unucu
BA0958	Seminis
Bowie	НМ
Sybaris (sv1007GG)	Seminis
BA1006	Seminis
Sony	Brothertor
Caprice (std)	НМ
2011B515	Brothertor
Messi (PV844)	Crites
2219	Pure Line
7343	Pure Line
Baltimore (PV819)	Crites
BSC897	Brothertor
Napoleon	A&C
Pike	НМ
2012B525	Brothertor
Rimember (PV766)	Crites
Comper	Vilmorin
Cassidy	НМ
Flavor Sweet	НМ
ASR1302	Storm
Oakley	нм

Whole (2-3 sieve)

SWB 75-1	Pure Line
Kendo	Brotherton
SWB2-1	Pure Line
Masai (std)	Syngenta
Polder	Vilmorin

Table 2. Yield Characteristics (large bean planting date 5/29)

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See page 6 for column descriptions.

Table 3. Yield Characteristics (3-4 sieve trial planted 6/22) in order of largest to smallest sieve size

Cultivar	Days to harv.	Heat units harv	Cull %	% 2 siev e	% 3 sieve	% 4 sieve	% 5 sieve	% 6 sieve	% 2- 4 sieve	Plts. per foot	3 sieve seed length (mm)	4 sieve seed length (mm)	T/A
6140	56	1032	0.6	9	19	44	22	6	73	6.7	69	84	7.1
	58	1070	1.4	10	11	42	28	9	63	6.8	77	84	6.9
SV1136GF	56	1032	0.2	14	17	43	21	4	75	5.8	67	77	5.9
	58	1070	0.7	14	16	44	22	4	74	6.4	75	85	6.5
BSC898	58	1070	1.6	15	19	48	17	2	81	6.1	66	85	6.5
	60	1104	2.6	15	20	46	18	1	81	6.9	76	86	6.0
HMX 2117	56	1032	0.4	15	23	49	13	0	87	5.5	70	86	6.7
	58	1070	1.5	16	21	49	14	0	86	6.9	74	90	7.5
	60	1104	1.8	13	16	52	18	1	81	6.9	88	98	7.7
Wyatt	58	1070	0.8	12	20	52	17	0	83	6.8	72	83	7.4
	60	1104	1.6	10	17	56	15	2	83	7.1	82	95	7.7
Achiever	57	1050	0.6	16	20	49	13	0	85	5.8	72	91	5.9
	59	1088	1.7	15	9	50	15	1	74	7.1	82	100	6.9
Ambition	57	1050	1.2	25	28	40	7	0	93	6.3	70	86	5.2
	59	1088	1.0	20	23	42	13	0	85	7.1	88	108	5.8
Bison	58	1070	0.8	19	24	42	13	2	85	6.8	68	87	6.6
	60	1104	0.9	17	23	44	13	4	83	7.2	78	93	7.3
Cabot	57	1050	1.1	24	28	37	11	1	88	6.3	64	80	6.1
	59	1088	2.9	17	25	44	13	1	86	5.8	78	91	5.8
BA0958	58	1070	2.5	19	25	45	11	0	89	6.3	74	87	6.6
	60	1104	2.0	14	32	41	12	1	87	7.1	86	99	7.2
Bowie	58	1070	1.3	18	25	43	12	1	86	6.3	63	84	7.6
	60	1104	0.7	15	22	50	11	2	87	7.4	78	95	7.7
Sybaris	59	1088	1.9	19	28	47	6	0	94	5.2	72	87	5.9
	61	1119	0.9	13	20	57	10	0	90	6.5	78	94	7.5
BA1006	58	1070	2.0	23	30	37	7	3	89	6.2	79	99	5.8
	60	1104	2.0	19	28	44	9	0	90	7.3	85	106	6.6
Sony	58	1070	0.7	20	33	42	5	0	95	6.4	71	76	7.1
	60	1104	0.6	15	30	49	5	0	95	6.6	74	86	7.3
Caprice	58	1070	0.8	23	30	42	5	0	95	6.3	65	81	6.9
	60	1104	0.6	22	28	45	5	0	95	6.9	73	94	7.0

Table 3 continued:

	Days to	Heat units	Cull	% 2 siev	% 3	% 4	% 5	% 6	% 2- 4	Plts. per	3 sieve seed length	4 sieve seed length	
Cultivar	harv.	harv	%	е	sieve	sieve		sieve	sieve	foot	(mm)	(mm)	T/A
2011B515	59	1088	2.5	32	31	33	5	0	95	6.5	72	86	4.5
	61	1119	1.7	27	35	34	4	0	96	6.8	80	91	5.4
Messi	59	1088	0.9	30	35	32	3	0	97	6.0	76	84	5.1
	60	1104	0.4	24	33	39	4	0	96	6.5	82	92	5.7
2219	58	1070	0.8	27	36	35	2	0	98	6.6	67	85	5.8
	60	1104	0.5	22	37	39	2	0	98	7.2	75	91	6.4
7343	58	1070	0.8	25	34	38	3	0	97	6.0	63	79	5.8
	60	1104	1.0	24	35	39	3	0	97	7.7	77	93	6.5
Baltimore	59	1088	0.6	24	31	42	3	0	97	7.0	77	92	5.6
	61	1119	0.2	27	36	35	2	0	98	7.6	84	100	6.5
BSC897	58	1070	1.5	31	37	31	2	0	98	6.3	75	90	6.1
	60	1104	0.3	27	37	34	2	0	98	7.1	89	98	5.8
Napoleon	58	1070	0.2	39	35	26	1	0	99	5.8	83	92	5.7
	60	1104	0.2	32	34	32	2	0	98	7.5	86	102	6.7
Pike	59	1088	0.5	37	37	26	0	0	100	6.0	81	92	5.4
	61	1119	0.2	26	43	31	0	0	100	7.1	83	93	6.6
2012B525	58	1070	0.9	47	34	18	0	0	100	6.0	62	79	4.4
	60	1104	0.0	40	36	24	0	0	100	6.7	76	89	5.2
Rimember	59	1088	0.7	39	39	23	0	0	100	6.3	82	86	5.8
	61	1119	0.2	32	44	24	0	0	100	7.4	88	95	6.9
Comper	59	1088	1.5	53	23	22	2	0	98	5.2	85	91	4.9
	61	1119	2.1	54	27	18	1	0	99	6.5	91	97	6.5
Cassidy	59	1088	1.3	42	37	21	0	0	100	6.6	84	93	5.9
	61	1119	0.4	31	44	25	0	0	100	7.1	88	95	7.0
Flavor Sweet	59	1088	0.3	53	35	12	0	0	100	6.0	79	92	5.3
	61	1119	0.0	43	42	15	0	0	100	7.1	85	99	6.2
ASR1302	57	1050	0.8	51	37	10	2	0	98	7.1	83	93	5.9
	59	1088	1.3	47	43	10	0	0	100	7.4	92	108	5.5
Whole bear)												
Oakley	59	1088	1.1	88	12	0	0	0	100	6.3	93	na	5.2
	61	1119	0.5	86	14	0	0	0	100	6.9	98	na	6.0

See page 6 for column descriptions.

Table 4. Yield Characteristics (Whole bean - planting date 6/20)

						. 1	, a.a.e. e/ = e /				
		Lloot				2 Sieve Seed	3 Sieve Seed				
	Days to	Heat units	% 2	% 3	% 4	Length	Length	Plts			
Cultivar	harv.	Harv.	sieve	sieve	sieve	(mm)	(mm)	per foot	T/A	Cull %	
						(11111)	(11111)		.,		
SWB 75-1	56	1030	75	24	1	57	72	6.4	3.7	1.5	
	59	1068	62	35	2	71	86	6.9	4.5	1.0	
Kendo	59	1068	88	11	1	58	77	6.5	4.1	1.0	
	63	1126	70	30	0	79	na	7.0	5.4	0.4	
SWB2-1	56	1030	96	4	0	59	67	6.6	3.5	0.9	
	59	1068	93	7	0	64	78	7.4	4.7	0.9	
Masai	56	1030	94	6	1	64	74	6.2	3.4	1.5	
	59	1068	92	8	0	76	99	7.5	4.8	0.5	
Polder	56	1030	96	4	0	63	80	6.8	3.4	1.4	
	59	1068	94	6	0	78	94	7.4	5.0	1.1	