

2003 University of Delaware Processing Baby Lima Bean Variety Trial

Ed Kee, James Adkins and Tracy Wootten, University of Delaware Research & Education Center
16684 County Seat Highway, Georgetown, DE 19947

Phone: (302) 856-7303; FAX: (302) 856-1845

Email: kee@udel.edu; adkins@udel.edu; wootten@udel.edu

Purpose: To evaluate new processing lima bean varieties for yield, maturity, and quality factors under Delaware growing conditions.

Location: Field 11 – Research & Education Center Farm

Cultural Practices:

The plots were 1 row plots, 30 feet in length with a 30-inch between row spacing. In-row seed spacing was 4 seeds per foot for baby types. The plots were designed using the randomized complete block design with four replications. All plantings received overhead sprinkler irrigation at 1-5 inches of water per week.

The field was fertilized according to soil test, applying 19-38-19 broadcast/acre. Thirty pounds per acre was applied at planting. The plots were planted on June 25, 2003 with a Monosem planter. Pre-emergence herbicides (Pursuit at 2 oz./Ac and Dual Manum at 1.5 pints/A) were applied on June 14, 2003. The plots were sidedressed on July 17, 2003 with 49 lbs./A or nitrogen and cultivated.

Harvest:

The plots were hand harvested. All plants in the 10 foot harvest section were pulled. Pods from 10 plants in the harvest section were stripped, counted and used to determine percentage useable, dry, flat and moldy pods. A Taylor Manufacturing Company TaMACo Huller, Model 520 was used to shell the beans. The beans were then weighed for final yield.

Results:

4LCTS-2 was the highest yielding variety in the trial. When evaluating these results, it is important to analyze any maturity differences as reflected by % useable pods. It is also important to understand a variety is not significant from growth unless the difference between varieties exceeds the value at bottom of the column for the LSD.05.

**Yield, Harvest Date, DAP, Stand Count, Plant Weight, Seed Source and Percent Usable, Dry and Flat Pods for the 2003
University of Delaware Lima Bean Variety Trial**

Variety	Harvest Date	Days From Planting	No. of Plants	Weight of Plants	lbs/plt	% Useable	% Dry	% Flat	Total lbs/acre	Seed Source
4 LCTS-2	9/7	73	43	12.8	.35	81	18	1	4289	ADM Seedwest
1LD3	9/4	70	46	13.4	.33	76	21	3	4028	ADM Seedwest
Cypress	9/6	72	41	15.2	.38	90	9	1	3784	ADM Seedwest
14-01-DA	9/6	72	43	13.7	.30	93	67	1	3443	Ben Fish Seed Co.
Meadow	9/6	72	37	13.6	.38	81	15	4	3343	ADM Seedwest
24-01-DA	9/11	77	36	12.6	.38	85	8	7	3272	Ben Fish Seed Co.
184-85	9/12	78	45	15.3	.35	78	4	18	2625	Ben Fish Seed Co.
70-01-DA	9/12	78	44	11.1	.28	83	10	7	2614	Ben Fish Seed Co.
71-01-DA	9/9	75	45	14.0	.33	81	4	15	2568	Ben Fish Seed Co.
Cel-Sel	9/11	77	45	13.5	.33	79	8	13	2558	Ben Fish Seed Co.
16-01-DA	9/12	78	42	11.9	.28	82	12	4	2531	Ben Fish Seed Co.
2-01-DA	9/12	78	39	11.9	.33	84	7	9	2449	Ben Fish Seed Co.
17-01-DA	9/7	73	37	14.4	.42	85	3	12	2314	Ben Fish Seed Co.
LSD.05			4.8	2.3	.09	7	7	5	554	