2007 University of Delaware Pickle Variety Trial

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Introduction

The 2007 Pickle Variety Trial included seven varieties from three participating companies, plus two check varieties (Vlaspik and Expedition). The trial was planted in a grower field. Varieties were planted in three-row plots with 30 inch between row spacing. Varieties were replicated four times in each trial. Irrigation, fertility, insects and disease were managed conventionally by the cooperating grower.

Plots were harvested mechanically and the weight of harvested pickles was measured using a weigh wagon. A half-bushel sample from each plot was graded for size and quality. At harvest, ten size 3A pickles were sampled from each plot to determine the length : diameter ratio for each variety.

Varieties Entered in the 2007 Delaware Pickle Variety Trail

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Variety Name	Company							
HMX 5406/82	Harris Moran							
Pershing (1864) Supreme	Nunhems USA							
Wainwright (5512) Supreme	Nunhems USA							
Cates (5513) Supreme	Nunhems USA							
EX 045 0 1043 (EX 1043)	Seminis							
PX 049 6 4729 (PX 4729)	Seminis							
PX 049 6 4769 (PX 4769)	Seminis							
Vlaspik	Check							
Expedition (XP 04506116)	Check							

Results and Discussion

The results of the trial are presented in the following table. EX 1043 and Wainwright produced the highest marketable yields in the trial. The variety PX 4729 may mature slightly earlier than the other varieties in the trial, as this variety had a significantly higher percent of 4A size pickles and we observed a higher number of oversize pickles coming off of the harvester. We also observed a fair amount of fruit hollowness in EX 1043.

Acknowledgements

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Location: Carlisle Farm, Greenwood, DE Planted: June 15, 2007 Harvested: July 26 & 27, 2007 (41 & 42 DAP) Plot Size: 693 x 7.5 ft

		Yields in Bu/A			Percent of Each Grade ³							
Variety	(DAP)	Total Yield	Marketable Yield ¹	L/D Ratio ²	4 A	3B	3A	2B	2A	1B	1A	Crooks & Nubs
EX 1043	(42)	169 a	137 a	3.42	5.6 bc	19.3 abc	28.5 a	20.7 c	6.0 e	0.8 c	0.0 a	19.1 ab
Wainwright	(41)	135 b	119 ab	3.19	2.8 c	20.3 ab	25.4 a	25.9 ab	12.1 ab	2.2 ab	0.0 a	11.4 c
PX 4729	(41)	125 bc	109 bc	2.93	10.8 a	17.7 bc	27.2 a	22.2 bc	8.4 cde	1.2 bc	0.1 a	12.3 c
Vlaspik	(41)	126 bc	107 bc	3.39	2.5 c	15.7 bc	29.9 a	24.6 abc	10.5 bc	1.2 bc	0.0 a	15.8 bc
PX 4769	(41)	122 bc	106 bc	2.88	8.7 ab	27.0 a	22.5 a	20.4 c	6.1 de	1.3 bc	0.0 a	14.0 c
HMX 5406/	82 (41)	116 bc	102 bcd	3.09	2.9 c	16.7 bc	28.5 a	25.1 abc	13.6 a	1.6 bc	0.0 a	11.7 c
Expedition	(41)	120 bc	96 cd	3.38	1.0 c	14.1 bc	26.9 a	21.8 bc	13.7 a	3.1 a	0.0 a	19.5 ab
Cates	(42)	107 c	84 de	3.12	3.9 bc	17.3 bc	25.1 a	21.9 bc	9.1 cd	1.5 bc	0.0 a	21.4 a
Pershing	(41)	83 d	65 e	3.13	2.4 c	11.4 c	22.9 a	28.3 a	12.2 ab	1.8 bc	0.0 a	21.1 a
LSD _{0.05}		22.7	21.2	NA	4.99	7.92	NA	5.12	2.96	1.11	NA	4.67
<i>p</i> -value		< 0.0001	< 0.0001	NA	0.0062	0.0328	0.4342	0.0542	< 0.0001	0.0134	0.4613	0.0002

Means followed by the same letter are not significantly different from one another.

¹Marketable Yield=Total yield – Crooks and Nubs

²Length : Diameter Ratio for 3A pickles

³Percent by weight, graded according to the following:

- 4A 2.00 to 2.06 inches in diameter
- 3B 1.75 to 2.00 inches in diameter
- 3A 1.50 to 1.75 inches in diameter
- 2B 1.25 to 1.50 inches in diameter
- 2A 1.06 to 1.25 inches in diameter
- 1B 0.88 to 1.06 inches in diameter
- 1A 0.38 to 0.88 inches in diameter