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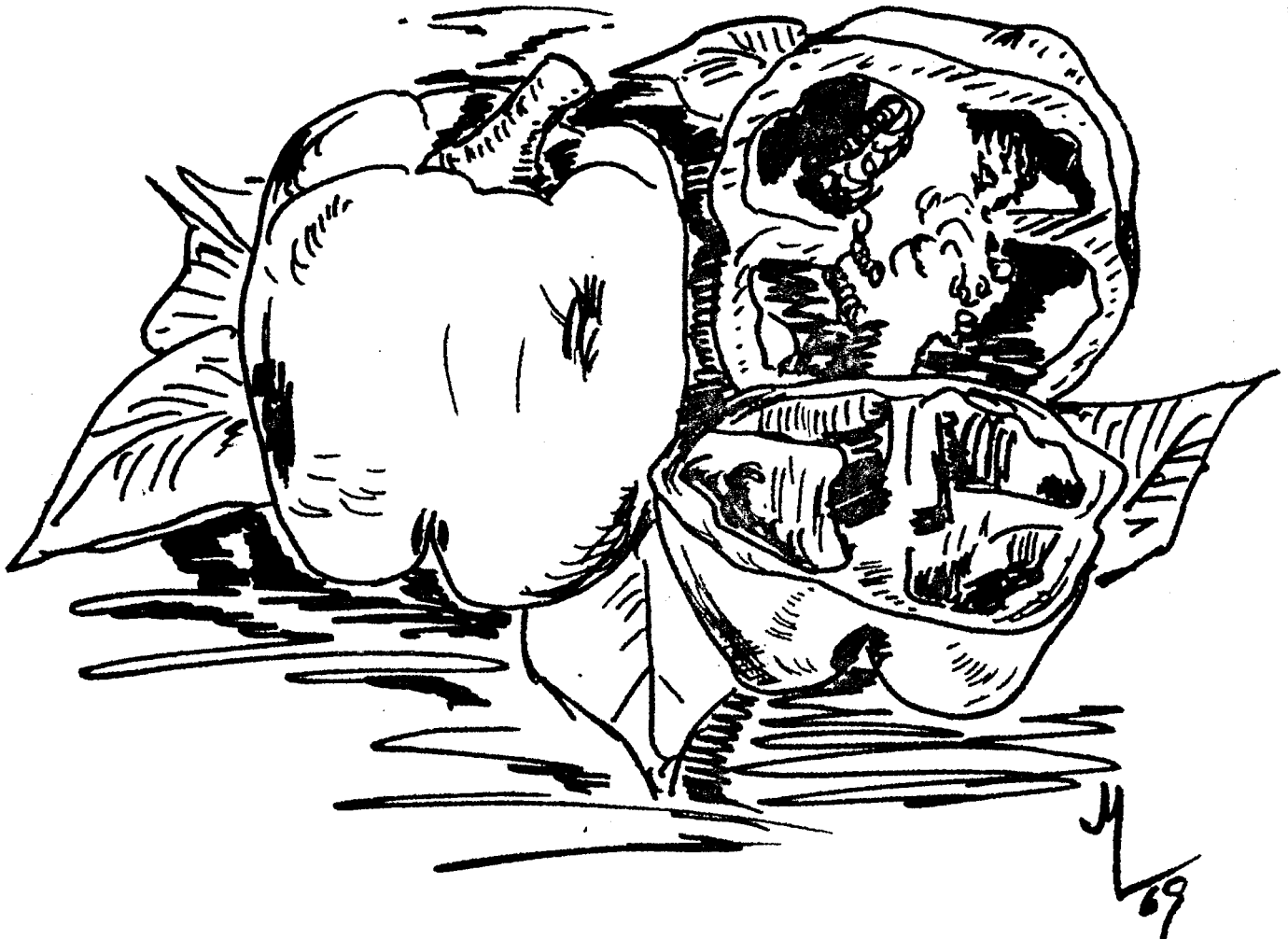


ONTARIO
DEPARTMENT OF AGRICULTURE AND FOOD
RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY
RIDGETOWN, ONTARIO

Pepper Performance Trials 1970

R.C.A.T. Ridgetown, Ont.

J.K. MUEHNER, P.Ag.



PICKLING PEPPER PERFORMANCE TRIALS - 1970

J. K. Muehmer

Seventy-six varieties, submitted for trial by seed companies as well as 25 cultivars entered in co-ordinated yield trials across Ontario were seeded inside on March 27, 1970. Transplants in peat-pots were transplanted into the field (Berrien Sandy Loam) on May 22nd by hand at a spacing of 18" in a 30" row (10 and 12 plants per plot; 2 and 4 replications respectively).

Cultural methods were those commonly in use for this area. No sidedressing of any fertilizer was necessary. The use of peat pots facilitated a continuous plant growth resulting in extremely satisfactory yields.

The first fruit of early cultivars were harvested on July 20 already when some mature fruit turned color. The total number of colored fruit per plant was recorded on August 13 and all cultivars listed in this report were arranged accordingly.

Evaluation of ten typical ripe fruit from each plot for all fruit characters took place during the 1st week in September. The cultivars entered from the Co-ordinated Ontario Trials were harvested approximately every 10 days, while the yields of other entries were established by harvesting 3 plants at random per plot. By mid-September one more harvest would have been justified, but inavailability of help made this impossible.

Together with the 1969 results this years data will assist growers and processors alike in making their choice of suitable cultivars for future plantings in Southern Ontario.

LIST OF SEED SOURCES

CODE #

- 0 Asgrow Seed Co. Research Dept. Twin Falls, Idaho
- 01 Agway, Inc. Seed Div., 560 Delaware Ave., Box 128, Buffalo, N.Y. 14240
- 1 W. Atlee Burpee Company Seed Growers, Philadelphia, Penn. 19132
- 2 Jos. Harris Seeds, Moreton Farm, Rochester, N.Y. 14624
- 3 Herbst Bros. Seedsmen Inc., 1000 N. Main St., Brewster, N.Y. 10509
- 3A Horticultural Research Institute of Ontario, Vineland Stn., Ontario
- 4 Keystone Seed Co., Box 1438, Hollister, Calif. 95023
- 5 Dr. S. Honma, Hort. Dept., Michigan State University, East Lansing, Michigan
- 6 Northrup; King & Co., 1500 Jackson St., N.E. Minneapolis, Minn. 55413
- 6A Niagara Chemical Div., FMC Corp., Res. Station, San Juan Bautista, Calif.
- 7 Peto Seed Company Inc., Box 4206, Saticoy, Calif. 93003
- 8 Robson Quality Seeds, Inc., Hall, N.Y. 14463
- 9 Royal Sluis, Box 22, Enkhuizen, Holland
- 10 T. Sakata & Co., Yokohama, Japan
- 11 Stokes Seeds, Box 10, St. Catharines, Ontario + Buffalo, N.Y.
- 12 Otis S. Twilley Seed Co., Box 1817, Salisbury, Md. 21801

PICKLING PEPPER PERFORMANCE TRIALS - 1970 - RIDGETOWN COLLEGE OF AGRICULTURAL TECHNOLOGY

J. K. MUEHMER

Name	Source (see list)	No. Ripe Fruit Aug. 13, 1970	Plant		Fruit						Yield Tons/Acre	Remarks
			Height cm	Width cm	No. 1 Fruit/ Plant	Weight g	Length cm	Neck cm	Tip cm	Wall mm		
<u>SQUASH TYPE (cheese)</u>												
1. Early Calwonder	4	1.7	66	58	14.3	53.5	3.7	4.6	3.5	5.3	7.9	seed mixture?
2. Early Cheese	2	1.2	54	64	9.0	111.1	5.7	7.5	6.5	6.7	10.2	extremely thick flesh
<u>BELL TYPE</u>												
1. Canape	3	1.5	60	67	13.7	97.6	9.1	6.2	4.4	4.3	13.7	
2. Early Bluntiful	10	1.0	53	48	14.3	104.6	11.2	7.8	6.4	6.0	15.4	
3. Delaware Belle	8	.9	50	52	7.0	195.0	10.5	7.8	6.2	7.8	13.0	thick flesh
4. Merrimack Wonder	1	.7	52	57	10.7	112.5	7.9	6.6	6.3	6.6	12.3	blocky
5. Spartan Emerald	5	.7	50	58	6.7	140.0	8.8	7.7	6.5	6.3	9.6	lobed, but smooth skin
6. Yolo Wonder	11	.7	40	45	7.2	159.0	13.0	7.6	5.5	8.0	12.1	heavy, lg. fruit
7. Early Calwonder	11	.7	45	56	7.0	133.3	12.1	7.4	5.7	5.7	9.6	
8. Sweet No. 2	9	.6	49	38	8.3	112.0	11.2	6.6	3.9	5.8	9.6	
9. Canape	2	.6	50	62	10.7	87.5	9.1	5.5	5.0	4.7	9.6	
10. Yolo Wonder B	2	.6	50	50	10.0	76.7	11.7	8.0	6.5	7.3	7.8	smooth
11. Dalmalic	9	.4	54	50	9.3	78.6	6.9	6.8	6.5	5.0	7.5	square
12. No. 19	10	.4	67	63	9.3	114.3	8.7	7.8	6.5	4.5	10.9	firm
13. Florida Giant	4	.2	58	49	8.0	179.2	9.5	8.3	6.4	8.3	14.7	v. firm, attractive
14. Keystone Res. Giant	4	.2	62	59	4.3	215.4	8.2	7.4	6.5	4.1	9.6	
15. Early Calwonder	4	.2	38	48	7.5	166.7	11.0	7.6	6.7	8.0	13.7	v. good flesh, flavor
16. Early Calwonder	6	.2	40	50	3.3	260.0	9.7	7.7	7.6	6.2	6.1	see # 15, 7
17. Emerald Giant	6	.2	56	51	6.3	178.9	10.8	8.6	7.4	6.6	12.8	
18. Oakview	6	.2	48	54	8.8	61.5	9.6	8.2	7.3	6.7	10.9	f. smooth
19. Midway M.R.	12	.2	52	56	10.3	122.6	8.1	6.1	3.9	5.6	13.0	
20. Bell Boy Hybr.	12	.1	47	55	7.7	160.9	8.1	7.0	5.6	6.5	12.6	
21. Staddon's 100-8	2	.1	56	51	8.3	180.0	11.5	5.6	3.9	5.8	15.4	
22. Green Boy	01	0	52	68	9.3	150.0	9.9	7.6	5.7	4.2	14.3	
23. Calif. Wonder E	0	0	64	56	7.3	163.6	9.8	7.9	6.0	4.5	12.3	
24. Calif. Wonder 300	0	0	60	42	9.0	151.8	10.4	8.5	7.6	6.2	14.0	attractive
25. Jade	0	0	53	58	7.7	147.8	9.8	7.8	7.5	5.4	11.3	

Name	Source (see list)	No. Ripe Fruit Aug. 13, 1970	Plant		Fruit					Yield Tons/Acre	Remarks	
			Height cm	Width cm	No. 1 Fruit/ Plant	Weight g	Length cm	Neck cm	Tip cm			Wall cm
26. Bellringer	1	0	45	48	6.0	172.2	8.3	8.0	7.5	6.7	10.6	blocky, firm
27. World Beater	1	0	60	38	10.3	148.4	11.7	6.6	4.5	5.6	15.7	
28. Keystone Res. Giant	2	0	53	54	9.0	181.5	9.2	8.9	8.0	5.0	16.7	v. blunt
29. Staddon's 36-8	2	0	44	68	9.7	172.4	10.1	7.5	5.7	6.2	17.1	productive
30. Calif. Wonder	4	0	59	55	7.3	168.2	8.4	7.5	7.1	7.3	12.6	smooth, blunt, firm
31. Belaire	6A	0	50	42	7.3	154.5	7.5	8.3	8.1	7.4	11.6	v. blocky
32. Mercury	7	0	57	48	6.7	190.0	6.7	7.0	5.2	7.6	13.0	
33. Midway	7	0	58	64	2.3	200.0	10.2	7.0	6.0	7.2	4.8	more late fruit develop
34. Pacific Bell	7	0	53	60	5.7	235.3	9.8	6.8	6.2	6.1	13.7	recomménd
35. Titan	7	0	46	55	7.0	161.9	10.3	8.2	8.0	6.0	11.6	small plant, promising
36. Yolo Wonder	7	0	56	48	6.7	175.0	9.5	8.4	8.0	6.9	12.0	attractive, v. blunt
37. Calif. Wonder Select	12	0	50	53	9.0	192.6	9.1	7.9	6.5	5.8	17.8	productive
38. Florida Giant M.R.	12	0	48	43	8.0	187.5	9.8	8.0	7.1	6.1	15.4	
39. Wonder Giant, M.R.	12	0	60	56	7.7	234.9	9.2	9.9	9.0	7.2	18.4	blunt, productive
40. Improved Yolo Wonder	12	0	55	47	6.7	210.0	7.5	9.2	9.2	5.4	14.3	square
41. Yolo Wonder L	12	0	44	57	7.3	181.8	6.5	8.3	8.3	5.6	13.7	square
42. Yolo Select	12	0	48	40	9.0	159.2	7.9	8.9	7.6	6.0	14.7	
43. Titan, M.R.	12	0	43	50	7.0	191.0	10.5	9.3	7.6	4.8	13.7	thin walled
<u>BANANA TYPE</u>												
1. Hungarian Yellow Wax	0	2.0	55	43	16.0	54.0	12.5	3.4	2.2	3.0	2.7	
2. 68-103	5	1.4	58	39	7.7	87.0	15.9	3.7	1.2	4.8	6.8	
3. Shepherd	11	1.3	60	57	9.7	121.0	13.7	5.0	2.0	5.3	12.0	promising
4. Sweet Banana	7	.9	51	54	14.7	127.0	14.9	3.9	1.0	3.2	10.9	slim
5. Rumanian Wax	2	.7	53	38	8.3	104.0	11.7	5.7	2.0	8.1	8.9	thick walled, recommend
6. 68-125-1	5	.6	50	50	7.3	91.0	12.5	4.2	2.8	4.7	6.8	
7. Roumanian Sweet	7	.6	67	75	17.7	57.0	10.9	5.9	2.8	7.0	10.2	recommend
8. 68-141-2	5	.5	62	55	14.7	75.0	12.7	3.6	1.2	3.8	11.3	
9. Sweet Hung. Y. Banana	11	.3	60	55	14.0	83.0	17.5	3.7	1.7	2.8	13.0	recommend
10. Sweet Banana	2	.1	52	45	24.3	45.0	11.8	4.0	1.7	3.0	12.2	too crooked for jars
11. Aconcagna	0	.1	60	48	6.3	184.0	19.8	6.1	2.5	4.4	12.0	

Name	Source (see list)	No. Ripe Fruit Aug. 13, 1970	Plant		Fruit					Yield Tons/Acre	Remarks	
			Height cm	Width cm	No. 1 Fruit/ Plant	Weight g	Length cm	Neck cm	Tip cm			Wall mm
12. Sweet Banana	12	.1	56	47	8.7	81.0	15.3	4.6	2.5	3.7	7.2	
13. Sweet Banana	1	0	48	51	16.0	77.0	18.4	3.9	2.0	3.6	12.6	recommend
14. Sweet Banana	4	0	58	39	14.3	93.0	16.1	3.6	0.9	4.3	13.7	v. pointed
15. Hungarian Sweet Wax	7	0	50	47	10.7	78.0	14.0	3.7	2.6	3.2	8.5	
<u>CHERRY TYPES</u>												
1. Red Cherry	0	5.3	45	45	22.3	45.0	1.5	2.7	2.2	2.9	10.2	
2. Red Cherry Small	7	4.8	60	54	25.3	12.0	2.5	2.5	1.8	3.3	3.1	
<u>PAPRIKA, CHILI AND TABASCO TYPES</u>												
1. Long Thick Cayenne	0	5.6	50	60	17.7	50.9	15.7	2.8	.5	2.2	9.2	chili
2. Fresno Chili	0	4.7	60	50	7.0	52.4	4.8	2.8	1.0	3.6	3.8	high pigmentation paprika
3. Santa Fe Gem	7	3.8	64	61	63.7	11.5	4.4	2.4	1.0	3.3	7.5	productive
4. Fresno Grande	7	3.6	49	56	36.7	34.5	8.3	3.3	1.0	3.9	13.0	productive tabasco
5. Floral Gem	4	2.6	54	60	39.3	17.8	5.7	3.0	1.7	3.1	7.2	tabasco
6. Long Thin Cayenne	0	2.3	69	58	12.0	5.5	10.5	1.0	.2	1.5	.7	chili
7. Floral Gem	0	1.8	54	63	16.0	14.6	5.9	2.8	1.4	2.2	2.4	
8. Cuban	0	.5	51	54	8.3	100.0	14.5	5.4	2.8	1.6	8.5	chili, recommend
9. Chili Jalapeno	4	.1	64	42	14.3	39.5	6.8	2.0	1.6	4.5	5.8	
10. Jalapeno Chili	0	0	57	75	3.7	18.2	6.1	1.9	1.1	4.6	.7	poor
11. Mexican Chili	0	0	60	64	7.3	45.4	7.5	5.2	1.7	2.7	3.4	
12. Cascabella	0	0	60	90	32.3	19.6	3.7	1.6	.4	2.3	6.5	tabasco, recommend
13. Anaheim - M	7	0	78	90	11.7	13.3	16.7	2.4	1.1	2.6	1.7	chili
14. Anaheim Chili	0	0	70	65	6.6	35.0	16.5	3.0	2.6	2.8	2.4	
15. Anaheim Chili	4	0	72	80	10.7	40.6	15.5	2.6	1.0	2.8	4.4	rough
<u>PIMENTO TYPES</u>												
1. Vinedale	11	1.7	41	35	13.0	71.8	9.4	4.9	3.8	4.0	9.3	
2. Staddon Select	11	1.1	30	38	8.0	108.3	9.8	6.9	5.4	5.0	8.9	
3. Szegedi	11	1.1	51	40	7.0	66.7	10.4	6.2	3.4	4.3	4.8	v. firm "Roumanian"
4. Pick-A-Peck	3	1.0	55	58	15.3	97.8	10.7	5.8	3.3	5.5	15.4	recommend
5. Spartan Garnet	5	.6	34	27	11.0	103.0	7.8	5.8	3.7	5.6	11.6	compact plant

Name	Source (see list)	No. Ripe Fruit	Plant		Fruit						Yield	Remarks
		Aug. 13, 1970	cm Height	cm Width	No. 1 Fruit/ Plant	g Weight	cm Length	cm Neck	cm Tip	cm Wall	Tons/Acre	
6. Yellow Castle	11	.6	60	55	9.1	78.6	9.5	5.7	3.2	4.0	7.4	
7. Vinette	11	.4	45	48	8.6	107.7	10.5	6.3	4.2	5.6	8.9	compact fruit
8. Cubanelle	2	.4	58	63	13.0	89.7	12.5	5.1	3.4	4.2	12.0	banana?
9. 63-39	3A	.3	48	51	11.3	77.1	10.5	5.9	3.7	4.7	9.3	
10. Cubanelle	4	.2	60	49	11.7	105.7	14.5	5.4	1.7	4.2	12.6	banana?
11. 63-34	3A	.2	48	60	9.3	82.1	8.8	7.5	5.7	5.7	7.8	v. firm
12. 63-29	3A	.1	53	50	12.0	58.3	9.2	6.1	4.2	8.0	7.2	extremely firm
13. King of the North	1	0	52	47	12.7	105.3	10.9	5.8	2.9	7.2	13.7	thick flesh, good