

YUMA VEGETABLE VARIETY TRIALS 1996/1997

Mark Wilcox
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Introduction

In an effort to assist seed companies, plant breeders, and growers in evaluating new introductions and breeding lines and in making comparisons of commercial varieties, The University of Arizona conducts annual variety trials. Every effort is made to duplicate the typical commercial practices used in Yuma County including planting throughout the standard planting windows. This practice allows data to be collected during the various weather conditions experienced from early fall through spring.

Methods and Materials

The types of vegetables tested, planting periods and cooperators are listed in Table 1. All varieties were planted in commercial fields and grown according to practices used in the area. Standard pest control management was followed throughout the growing season. Several plantings were made of each vegetable to help determine season adaptability of each variety.

Since many of the varieties vary in rates of development, the trials were evaluated over a period of time as they matured. Plant characteristics were evaluated continuously throughout the season.

Many of the characteristics were rated using a scale of 1 to 5, with 5 being the most desirable and 1 being least desirable. For those characteristics rated by other means, there is a key provided for explanation. Each variety was given an overall rating and additional comments were provided as well. Varieties with an overall rating of 3 to 5 should perform well for the given planting date and conditions under which they were grown. An overall rating of 3 may be commercially acceptable, however the variety may experience some specific problem areas when grown under similar conditions of those of this trial. Varieties rated at 1 to 2 should be considered unacceptable for commercial use under similar conditions of those of these trials.

Results

All observations and evaluations are reported in Tables 2 - 9.

Table 1. Vegetable groups, planting periods and cooperators of trials in 1996-1997.

<u>Vegetable</u>	<u>Planting date</u> (wet date)	<u>Cooperators</u>
Early broccoli	9/10/96	Barkley Co.
Early cauliflower	9/06/96	Huerta Packing
Early crisphead lettuce	9/11/96	A. Duda & Sons and Jim Noquin
Mid broccoli	10/20/96	Wayman Farms
Mid cauliflower	10/23/96	Huerta Farms
Mid crisphead lettuce	10/19/96	Waymon Farms and A. Duda & Sons
Late broccoli	11/15/96	Mellon Farms
Late crisphead lettuce	11/14/96	Mellon Farms

BROCCOLI VARIETY TRIAL - 1996

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Table 2

Plant date: 9-9-96 Wet date: 9-10-96	Barkley Co.														KEY				
Variety	Overall Evaluation (a)	Head Shape (d)	Head Size (b)	Bead Color (c)	Head Compactness (a)	Head Diameter (inches)	Head Weight (lbs)	Uniformity (a)	Field Holding (a)	Plant Height (b)	Head Position (c)	Habit (g)	Stalk (b)	Incidence of Disease (a)	Starting (a)	Bracing (a)	Evaluation Date	Maturity at Harvest (f)	Comments:
Captain Peto Seed	4.5	S	M	BG	4.5	5.0	.85	4.0	4.5	M	M	3.5	M	4.5	5	5	12-2 12-11	M	Moderate trim. Nice solid head. Good early vigor.
Olympus American Takii Seed	3.75	S	M	BG	4.0	5.5	.95	3.5	4.5	M	M	4.0	M	3.0	5	5	12-2 12-11	M	Early hollow stem. Excessive trim. Nice shape with good density.
Major Peto Seed	4.0	D	M	G	4.0	5.0	.80	3.5	4.5	L	M	4.0	M	4.5	5	5	12-2 12-11	M	Lacking in uniformity of head shape. Moderate trim with good habit.
DPSX-102 D. Palmer Seed	2.75	S	M-L	BG	3.5	5.0	.65	2.0	4.0	M	M-L	3.5	M-L	3.5	5	5	12-11 12-21	M	Lacking in uniformity of maturity and variability in head size. Excessive trim. Some downy.
DPSX-103 D. Palmer Seed	2.75	S-D	M-L	BG	3.0	4.5	.55	2.0	4.0	L	M-L	3.5	M	3.5	5	5	12-11 12-21	M	Also lacking in uniformity of maturity and size. Moderate trim. Some downy.
Liberty Peto Seed	3.75	D	S	BG	5.0	5.5	.90	4.0	3.0	L	M-L	4.0	L	4.0	5	5	12-11 12-21	M	Dense tight heads with excellent shape. Heavy stalk with excessive trim. Some hollow stem at maturity.
Republic Peto Seed	3.75	D	S	BG	5.0	5.0	.80	4.0	3.5	M	M-L	4.0	L	4.0	5	5	12-11 12-21	M	Good dense heads. Good shape. Excessive trim. Some incidence of hollow stem at maturity.
Titleist American Takii Seed	4.25	D	M	BG	4.0	5.0	.75	3.5	4.5	M	L-M	4.0	M-L	4.0	5	5	12-11 12-21	M	Good shape and density. Moderate trim. Slightly lacking in uniformity of maturity.
DPSX100 D. Palmer Seed	4.0	D	S-M	BG	4.0	5.0	.95	3.5	4.0	L-M	M	4.0	S-M	4.0	5	5	12-18 12-28	M	Moderate trim with slender stalk. Good shape and habit.
Pinnacle American Takii Seed	4.0	D	S-M	BG	4.5	6.0	1.0	3.0	4.5	L-M	M	4.0	M	4.0	5	5	12-18 12-28	M	Moderate trim. Slightly lacking in uniformity of maturity.

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Table 2 (Cont.)

Plant date: 9-9-96 Wet date: 9-10-96 Barkley Co.	Overall Evaluation (a)	Head Shape (d)	Bead Size (b)	Bead Color (e)	Head Compactness (a)	Head Diameter (inches)	Head Weight (lbs)	Uniformity (a)	Field Holding (a)	Plant Height (b)	Head Position (c)	Habit (g)	Stalk (b)	Incidence of Disease (a)	Starting (a)	Bracing (a)	Evaluation Date	Maturity at Harvest (f)	KEY
DPSX-104 D. Palmer Seed	3.5	D	S	BG	4.5	6.0	1.0	3.0	4.0	L	M	4.0	M-L	3.0	5	5	12-18 12-28	M	Moderate trim. Nice dense head with small to medium bead. Some hollow stem.
DPSX-106 D. Palmer Seed	3.0	D	M	BG	4.0	6.0	1.0	2.5	3.5	M	M-E	3.5	M-L	3.0	5	5	12-18 12-28	M	Slightly excessive trim. Lacking in uniformity of maturity. Some hollow stem.
DPSX-108 D. Palmer Seed	3.5	D	M	BG	4.0	5.0	.7	3.0	3.5	M-L	M-E	3.5	M	4.0	5	5	12-18 12-28	M	Lacking in uniformity of maturity. Moderate trim.
S-210 Sakata	3.0	D	M-L	BG	3.5	4.0	.6	3.0	4.0	M-L	M	3.0	S	4.0	5	5	12-18 12-28	M	Lacking in size and overall uniformity. Slender stalk. Slightly excessive trim.
Durango - Bejo	0																		Did not make marketable crowns by 12-28.
Fiesta - Bejo	0																		Did not make marketable crowns by 12-28.

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Table 3

Plant date: 10-18-96 Wet date: 10-20-96 Wayman Farms	Variety	Overall Evaluation (a)	Head Shape (d)	Bead Size (b)	Bead Color (e)	Head Compactness (a)	Head Diameter (inches)	Head Weight (lbs)	Uniformity (a)	Field Holding (a)	Plant Height (b)	Head Position (c)	Habit (g)	Stalk (b)	Incidence of Disease (a)	Starting (a)	Bracing (a)	Evaluation Date	Maturity at Harvest (f)	KEY (a) 5=most desirable, 1=undesirable (b) S=small, M=medium, L=Large, V=variable (c) E=erect, M=medium, L=low (d) D=domed, S=semi-domed, F=flat, K=knuckled, V=variable (e) BG=blue-green, G=green, P=purple, WT=white tip, V=very (f) M=mature, O=over, U=under, V=very (g) 5 = erect, 1=wide Comments:	
	PS 136493- Peto Seed	3.25	D	M-L	BG	4.0	4.5	.95	3.0	4.0	L	M	4.0	L	3.0	4.0	5.0	2-4 2-12	M	Lacking in uniformity of stand & resistance to downy. Good compactness & habits.	
	Bejo 1575 Bejo Seed	3.5	D-K	S-M	B-P	3.5	4.0	.85	3.5	3.5	M	M-E	3.5	M	4.5	4.0	5.0	2-10 2-18	M	Good resistance to downy. Slightly lacking in uniformity of maturity.	
	Triathalon - Sakata Seed	3.75	D	M	BG	4.0	4.5	.95	3.5	4.0	M	M	3.0	M-L	4.0	4.0	5.0	2-10 2-18	M	Slightly spreading in habit & somewhat lacking in uniformity of maturity.	
	SBC 4406 Sakata Seed	3.75	D-K	S-M	G	4.0	4.0	.80	3.0	4.0	T	M-E	4.5	M	4.0	4.0	5.0	2-10 2-18	M	Nice erect habit. Somewhat lacking in uniformity of maturity.	
	PS 118493 - Peto Seed	3.25	S	S-M	BG	4.0	4.5	.90	4.0	4.0	M-T	E	4.0	M	3.0	4.0	5.0	2-10 2-18	M	Low resistance to downy mildew. Slightly excessive trim with nice erect habit.	

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Table 4

Plant date: 11-13-96 Wet date: 11-15-96	Overall Evaluation (a)	Head Shape (d)	Bead Size (b)	Bead Color (e)	Head Compactness (a)	Head Diameter (inches)	Head Weight (lbs)	Uniformity (a)	Field Holding (a)	Plant Height (b)	Head Position (c)	Habit (g)	Stalk (b)	Incidence of Disease (a)	Starting (a)	Bracting (a)	Evaluation Date	Maturity at Harvest (f)	KEY
Mellon Farms Variety																			(a) 5 = most desirable, 1 = undesirable (b) S = small, M = medium, L = large, V = variable (c) E = exerted, M = medium, L = low (d) D = domed, S = semi-domed, (e) BG = blue-green, G = green, P = purple, WT = white tip, V = very (f) M = mature, O = over, U = under, V = very (b) 5 = erect, 1 = wide Comments:
Olympus - American Takii	3.5	D	M	BG	3.5	5.5	.85	4.0	4.0	S	M-E	4.0	M-L	2.5	4.0	5.0	2-20 2-27	M	Moderate to excess trim. Slightly lacking in density. Highly susceptible to downy mildew.
SDX-13 - Southwest Seed	0	-	-	BG	-	-	-	4.0	-	M	E	4.0	M	2.0	-	-	2-20 2-27	M	Bolted at maturity. Low resistance to downy mildew.
SBC-4407 - Sakata Seed	4.0	D	M-L	BG	4.0	6.0	1.0	3.0	4.5	M	M-E	4.0	M-L	4.5	4.5	5.0	2-27 3-5	M	Nice erect habit. Good shape & density. Lacking in uniformity of maturity.
S210 - Sakata Seed	3.5	D	S-M	BG	3.5	5.0	.8	4.0	4.5	S	M-E	4.0	M	3.5	4.5	5.0	2-27 3-5	M	Excess trim. Slightly lacking in density. Moderate resistance to downy mildew.
DPSX-102 - D. Palmer Seed	3.0	D	M	BG	3.0	4.5	.75	4.0	4.0	S	M-E	4.0	M	3.0	3.0	4.0	2-20 2-27	M	Good habit & shape. Highly susceptible to downy mildew.
DPSX-103 - D. Palmer Seed	3.0	D	M	BG	3.0	5.0	.8	3.0	4.0	S	M-E	4.0	M-L	3.0	3.0	4.0	2-20 2-27	M	Slightly lacking in uniformity. Highly susceptible to downy mildew.
CMS Liberty - Peto Seed	4.25	D-K	S	BG	4.0	4.5	.85	3.5	4.5	M-T	M	4.0	M	4.5	4.5	5.0	3-5 3-14	M	Excellent habit with moderate trim. Good resistance to downy mildew.
Liberty - Peto Seed	4.5	D	S-M	BG	4.0	4.0	.8	4.0	4.5	M-T	M	4.0	M	4.5	4.5	5.0	3-5 3-14	M	Good overall uniformity & habit. Good resistance to downy mildew.
SBC-4406 - Sakata Seed	3.5	K	S	BG	3.0	4.5	.7	4.0	4.0	M-T	E	4.0	M	4.0	4.5	5.0	3-5 3-14	M	Lacking in compactness. Strong propensity to bolt at maturity.
DPSX-100 - D. Palmer Seed	3.25	K	S-M	BG	4.0	5.0	.9	3.5	4.0	M-T	M	4.0	M-L	3.5	4.5	5.0	3-5 3-14	M	Excellent habit & compactness. Slightly excessive trim.
PDSX-106 - D. Palmer Seed	3.25	D-K	S-M	BG	4.0	4.0	.8	3.5	4.5	M	M	4.0	M	3.5	4.5	5.0	3-5 3-14	M	Excessive trim with moderate resistance to downy mildew. Good habit & compactness.
SDX-14 - Southwest Seed	0	K	M	S	3.0	3.5	.6	4.0	3.0	S	E	3.5	M	3.0	4.0	4.0	3-5 3-14	M	Propensity to bolt at maturity. Failed to make acceptable crown size.

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Table 4 (Cont.)

Plant date: 11-13-96 Wet date: 11-15-96 Mellon Farms Variety	Overall Evaluation (a)	Head Shape (d)	Bead Size (b)	Bead Color (e)	Head Compactness (a)	Head Diameter (inches)	Head Weight (lbs)	Uniformity (a)	Field Holding (a)	Plant Height (b)	Head Position (c)	Habit (g)	Stalk (b)	Incidence of Disease (a)	Starting (a)	Bracting (a)	Evaluation Date	Maturity at Harvest (f)	KEY (a) 5 = most desirable, 1 = undesirable (b) S = small, M = medium, L = large, V = variable (c) E = exerted, M = medium, L = low (d) D = domed, S = semi-domed, F = flat, K = knuckled, V = variable (e) BG = blue-green, G = green, P = purple, WT = white tip, V = very (f) M = mature, O = over, U = under, V = very (g) 5 = erect, 1 = wide Comments:
PS136493 - Peto Seed	3.5	D	M	BG	4.0	5.0	.9	4.0	4.0	S-M	L-M	3.5	M-L	3.5	4.0	5.0	3-10 3-17	M	Slightly spreading in habit with good overall uniformity. Moderate downy resistance.
PS118493 - Peto Seed	4.0	D-S	S-M	BG	3.5	5.0	.75	4.0	4.0	S-M	M-E	4.0	M	4.5	4.0	5.0	3-10 3-17	M	Lacing in compactness with some variability in head shape. Good downy resistance.
Titleist - American Takii	3.75	S-D	S-M	BG	4.0	4.5	.8	4.0	4.0	M-T	M-E	4.0	M	3.5	4.5	5.0	3-10 3-17	M	Good overall uniformity, habit & shape. Moderate resistance to downy.
Durango - Bejo Seed	4.0	D-K	S	G	4.5	5.0	.95	4.0	4.0	M-T	M	3.5	M-L	4.0	4.0	5.0	3-10 3-17	M	Excellent head density & downy resistance. Slightly spreading habit.
Fiesta - Bejo Seed	4.25	D	M	BG	4.5	5.0	1.0	4.5	4.5	M	L-M	3.5	M-L	4.5	4.5	5.0	3-10 3-17	M	Excellent shape & density. Slightly excessive trim.
SBC-5505 - Sakata Seed	3.5	D-K	M-L	BG	4.0	5.0	.9	3.5	3.5	M-T	M-E	3.5	M-L	4.5	4.5	5.0	3-10 3-17	M	Lacking in uniformity of maturity. Good resistance to downy.
SBC-5506 - Sakata Seed	3.75	D-K	S-M	BG	4.0	4.5	.8	4.0	4.0	T	M	4.0	M	4.0	5.0	5.0	3-10 3-17	M	Slightly lacking in uniformity of maturity & variability of stalk diameter.
Marathon - Sakata Seed	4.0	D-K	S	BG	4.5	4.5	.95	4.5	4.5	M-T	M-E	4.0	M	3.5	4.5	5.0	3-10 3-17	M	Nice solid head with good uniformity of maturity. Moderate downy resistance.
Triathlon - Sakata Seed	4.0	D	M	BG	4.5	5.0	1.0	4.0	4.5	T	L-M	4.5	L	4.0	4.5	5.0	3-10 3-17	M	Good density, uniformity & habit. Slightly excessive trim.
Bejo 1575 - Bejo Seed	4.25	D-K	S	BG	4.0	4.0	.8	4.0	4.5	T	M	4.0	M-L	4.5	4.5	5.0	3-10 3-17	M	Good overall uniformity & resistance to downy.
DPSX-100 - D. Palmer Seed	3.5	D	S-M	BG	3.5	4.0	.7	3.0	3.0	T	M-E	3.0	M	4.0	4.0	5.0	3-10 3-17	M	Lacking in uniformity of maturity. Slightly spreading habit.
DPSX-104 - D. Palmer Seed	3.5	D	S	BG	4.0	4.5	.9	3.5	3.0	T	M-E	3.5	M	4.0	4.0	5.0	3-10 3-17	M	Also slightly spreading habit & somewhat lacking in uniformity of maturity.

CAULIFLOWER VARIETY TRIAL RESULTS - 1996
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Table 5

Variety	Overall Evaluation (a)	Uniformity of Maturity (a)	Stand Uniformity (a)	Head Shape (c)	Color (a)	Uniform Color (a)	Curd Density (a)	Curd Firmness (a)	Field Holding (a)	Wrapped Leaves (a)	Weight (lbs.)	Uniformity (a)	Plant Height (b)	Riciness (a)	Fuzziness (a)	Incidence of Disease (a)	Evaluation Date	Maturity at Harvest (d)	KEY (a) 5 = most desirable, 1 = undesirable (b) T = tall, M = medium, S = short (c) D = dome, F = flat dome, P = peak (d) M = mature, U = under, O = over	Comments:
Echo Bejo Seed	4.0	3.5	3.5	D	4.5	4.5	4.0	4.0	4.5	4.0	2.5	4.0	M	3.5	4.5	4.0	12-17 12-26	M	Nice solid head with good overall uniformity. Good color.	
Dylan Bejo Seed	4.0	4.0	3.5	D	4.5	4.5	4.5	4.0	4.5	4.0	3.0	3.5	S-M	3.5	4.5	4.0	12-17 12-26	M	Very tight curd with excellent density. Good color.	
Snow Crown American Takii	3.5	3.0	3.5	F	3.5	4.0	3.5	4.0	4.0	3.0	2.5	3.0	T-M	3.0	4.5	4.0	12-17 12-26	M	Slightly lacking in uniformity of maturity & color.	
Minuteman Peto Seed	4.5	4.0	4.0	D	4.5	4.5	4.0	4.0	4.5	4.5	2.8	4.5	T-M	3.5	4.5	4.0	12-17 12-26	M	Good dense head with excellent color. Strong wrappers.	
Candid Charm Sakata Seed	4.0	4.0	4.0	D	3.5	4.5	4.0	4.0	4.0	4.5	2.4	4.0	M	3.5	4.5	4.0	12-21 12-30	M	Good habit and strong wrappers. Somewhat lacking in color.	
White Passion Sakata Seed	4.25	4.5	4.5	D	4.0	4.5	4.0	4.0	4.0	4.5	2.25	4.0	M	3.5	4.5	4.0	12-21 12-30	M	Excellent habit with strong wrappers. Good overall uniformity.	
HMX-2166F Harris Moran	3.75	4.0	4.0	D	3.5	4.0	4.0	4.0	4.0	4.5	2.3	4.0	M	3.	4.5	4.0	12-21 12-30	M	Somewhat ricey. Good Density and strong wrappers.	
Tofar Bejo Seed	4.25	4.5	4.5	D	4.0	4.0	4.0	4.0	4.5	4.0	2.4	4.5	S-M	3.	4.5	4.0	12-30 1-7	M	Excellent overall uniformity, color and wrappers.	
Ravella Peto Seed	4.5	4.5	4.5	D	4.5	4.5	4.5	4.0	4.5	4.5	2.25	4.5	M-T	4.5	4.5	4.	12-30 1-7	M	Good overall uniformity, color and wrappers	
Goodman Bejo Seed	4.25	4.5	4.5	D	4.5	4.5	4.5	4.0	4.0	4.0	2.2	4.0	S	4.5	4.5	3.0	12-30 1-7	M	Good habit, color and wrappers. Slightly susceptible to downy at maturity.	
Fargo Bejo Seed	4.5	4.5	4.5	D	4.5	4.5	4.5	4.5	4.5	4.5	2.3	4.0	M	5.0	4.5	4.5	1-4 1-7	M	Excellent uniformity, habit, color and field holding.	
Incline Sakata Seed	3.75	4.0	4.5	D	4.0	4.5	3.5	3.5	3.5	4.0	2.6	4.0	T	3.5	4.5	3.0	1-4 1-7	M	Highly susceptible to downy. Good overall uniformity with strong wrappers.	

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Table 6

Plant date: 10-22-96 Wet date: 10-23-96	Variety	Overall Evaluation (a)	Uniformity of Maturity (a)	Stand Uniformity (a)	Head Shape (c)	Color (a)	Uniform Color (a)	Curd Density (a)	Curd Firmness (a)	Field Holding (a)	Wrapper Leaves (a)	Weight (lbs.)	Uniformity (a)	Plant Height (b)	Riciness (a)	Fuzziness (a)	Incidence of Disease (a)	Evaluation Date	Maturity at Harvest (d)	KEY (a) 5 = most desirable, 1 = undesirable (b) T = tall, M = medium, S = short (c) D = dome, F = flat dome, P = peak (d) M = mature, U = under, O = over	Comments:
	Huerta Farms																				
	Snow Mystique - American Takii	3.75	3.5	3.0	D	3.5	4.0	4.0	4.0	4.0	4.5	1.8	3.0	M-S	3.0	5.0	4.5	2-3 2-11	M	Nice erect plant with strong wrappers. Slightly lacking in overall uniformity.	
	HMX-2166F-Harris Moran	3.5	3.5	3.0	D	3.5	4.0	4.0	4.0	4.0	4.5	1.75	3.5	M	3.0	5.0	4.5	2-3 2-11	M	Good habit. Slightly lacking on overall uniformity & color.	
	Dylan - Bejo Seed	4.0	4.0	4.0	D	4.0	4.5	4.0	4.0	4.0	4.0	2.1	4.0	M	4.0	5.0	5.0	2-3 2-11	M	Good habit & overall uniformity with good density & color.	
	Goodman - Bejo Seed	4.25	4.0	4.0	D	4.5	4.5	4.0	4.0	4.0	4.0	2.0	4.0	M-S	4.0	5.0	5.0	2-3 2-11	M	Good overall uniformity color & density.	
	Tofar - Bejo Seed	3.75	4.0	4.0	D	4.0	4.5	4.0	4.0	4.0	3.5	2.0	4.0	M	3.5	5.0	4.5	2-3 2-11	M	Slightly spreading in habit. Good overall uniformity.	
	Incline - Sakata Seed	4.25	3.5	3.5	D	4.0	4.5	4.5	4.5	4.0	4.5	2.0	4.0	M-T	4.5	5.0	5.0	2-11 2-20	M	Excellent wrappers & habit. Good overall uniformity & density.	
	White Passion - Sakata Seed	3.75	4.0	4.0	D	3.5	4.5	4.0	4.0	4.0	3.0	2.2	4.0	M	3.5	5.0	5.0	2-11 2-20	M	Slightly ricey at maturity. Somewhat loose wrappers.	
	Echo - Bejo Seed	4.0	4.0	4.0	D	4.0	4.5	3.5	4.0	4.0	4.0	1.95	4.0	I-M	4.0	5.0	5.0	2-11 2-20	M	Good color & uniformity. Slightly lacking in density.	
	Cumberland - Peto Seed	4.0	4.0	4.0	D	4.0	4.5	4.0	4.0	4.0	4.0	1.8	4.0	M-T	3.5	5.0	5.0	2-13 2-22	M	Slightly ricey at maturity & some what lacking in density.	
	McKinley - Peto Seed	3.5	3.5	3.5	D	4.0	4.0	4.0	4.0	4.0	3.5	2.2	4.0	M-T	3.5	5.0	4.5	2-13 2-22	M	Somewhat lacking in overall uniformity & wrapper strength.	
	PS 533990 - Peto Seed	3.5	3.0	3.5	D	4.5	4.5	4.5	4.5	4.0	4.0	2.25	3.5	M-T	4.0	5.0	4.5	2-13 2-22	M	Nice color & density. Slightly lacking in uniformity.	
	Fargo - Bejo Seed	4.0	4.0	4.0	D	4.0	4.0	4.0	4.0	4.0	4.5	2.1	4.0	M	3.5	5.0	4.5	2-13 2-22	M	Good wrappers & habit. Slightly ricey at maturity.	

Crisphead Lettuce Trial Results - 1996
 Mark Wilcox, Extension Agent - Yuma County

Table 7

Variety	Overall Evaluation (a)	Maturity	Uniformity	Color (c)	Leaf Texture	Size (Diameter Inches)	Weight (lbs. oz.)	Plant Frame (a)	Vigor (a)	Butt Appearance (e)	Butt Size (f)	Field Holding (a)	Incidence of Disease (a)	Evaluation Date	KEY (a) 5 = most desirable, 1 = least desirable (b) M = mature, O = over, U = under (c) 5 = dark, 4 = bright, 3 = dull, 2 = light, 1 - yellowish (d) M = mature, U = under, O = over	Comments:
Plant date: 9-10-96 Wet date: 9-11-96 A. Duda & Sons and Jim Noquin																
Redondo Synergene Seed	4.25	M	3	4.5	4.5	6.25	1.6	4.5	4.5	4	4	4.5	5.0	11-21 11-28		Slightly lacking in uniformity of maturity.
HMX-5197 Harris Moran	2.0	M	2	3	4	6.5	1.5	3.5	3.5	4	3	4.0	5.0	11-28 12-9		Lacking in uniformity & head density.
Empire Orsetti	4.5	M	3.5	4	4	5.5	1.85	4.5	4.5	5	5	4.0	5.0	11-21 11-28		Good solid head. Some variation in uniformity at maturity.
HMX-9553 Harris Moran	2.0	M	3	3	4	4.5	1.4	2	3	1	2	4.0	5.0	11-28 12-9		Elongated butt with strong propensity to sheeprnose.
Tres Equis Synergene	4.25	M	3.5	4.5	4	5.25	1.65	3.5	4.5	4	5	4.5	5.0	11-21 11-28		Somewhat loose wrappers.
HMX-5196 Harris Moran	2.0	M	3	4	3.5	6.5	1.5	3	3	4	3	4.0	5.0	11-28 12-9		Large loose heads lacking in density. Good color.
Niner Asgrow	2.0	M	3	4	4	5.0	1.35	2	3	2	2	4.5	5.0	11-28 12-9		Poor head development. Light, loose heads.
Empire Select Shamrock	4.5	M	4	4	4	5.75	1.95	4.5	4.5	4	5	4.5	5.0	11-21 11-28		Good overall uniformity. Firm, solid heads.

CRISPHEAD LETTUCE TRIAL RESULTS - 1996

Mark Wilcox, Extension Agent - Yuma County

Table 8

Plant date: 10-17-96 Wet date: 10-19-96 Wayman Farms & A. Duda & Sons	Variety	Overall Evaluation (a)	Maturity (b)	Uniformity (a)	Color (c)	Leaf Texture (d)	Size (Diameter Inches)	Weight (lbs. oz.)	Plant Frame (a)	Vigor (a)	Butt Appearance (e)	Butt Size (f)	Field Holding (a)	Incidence of Disease (a)	Evaluation Date	KEY (a) 5 = most desirable, 1 = undesirable (b) S = small, M = medium, L = large, V = variable (c) E = exerted, M = medium, L = low (d) D = domed, S = semi-domed, F = flat, K = knuckled, V = variable (e) BG = blue-green, G = green, P = purple, WT = white tip, V = very (f) M = mature, O = over, U = under, V = very (g) 5 = erect, 1 = wide Comments:
	Sonora - Orsetti Seed	4.5	M	4.0	4.0	4.0	6.0	2.0	4.0	4.0	4	4.0	4.0	5.0	1-29 2-4	Nice dense heads with good overall uniformity.
	New Dominion - Synergene Seed	3.5	M	3.5	3.5	4.0	6.5	2.2	4.0	4.0	3	4.0	4.5	3.5	1-31 2-7	Strong habit. Slightly lacking in uniformity of maturity. Some powdery mildew present.
	Shiloh - Asgrow Seed	4.0	M	3.0	3.5	4.0	6.0	1.8 5	4.0	4.0	3-2	4.0	4.0	5.0	1-31 2-7	Slightly lacking in uniformity of maturity & butt shape.
	Valley Queen - Paragon Seed	4.0	M	4.5	4.0	4.0	6.5	2.1	4.0	4.0	4	4.0	4.0	5.0	1-31 2-7	Good overall uniformity & color. Nice shape & habit.
	HMX-9553 - Harris Moran Seed	3.25	M	3.0	4.0	4.0	6.5	2.2	4.0	4.0	4-3	4.0	4.0	5.0	1-31 2-7	Slightly lacking in uniformity & butt shape with excessive ribbiness.
	Mojave - Harris Moran Seed	3.75	M	3.0	3.5	4.0	6.5	2.1	4.0	3.5	4-3	4.0	4.0	5.0	3-4 2-10	Slightly lacking in uniformity of maturity. Late maturing with good habit.
	Desert Storm - Harris Moran Seed	4.25	M	3.5	4.0	4.0	6.5	2.6	4.5	4.0	4-3	4.0	4.5	5.0	1-29 2-4	Slightly lacking in uniformity of maturity & butt shape. Excellent density & habit.
	Meritmore - Orsetti Seed	3.5	M	4.0	3.5	4.0	5.5	1.9	4.0	4.0	4-3	4.0	4.0	3.0	1-29 2-4	Good density & habit. Slightly lacking in uniformity of size. Low resistance to powdery mildew.

Table 9
CRISPHEAD LETTUCE TRIAL RESULTS - 1996
 Mark Wilcox, Extension Agent - Yuma County

Plant date: 11-2-96 Wet date: 11-14-96 Mellon Farms Variety	Overall Evaluation (a)	Maturity (b)	Uniformity (a)	Color (c)	Leaf Texture (d)	Size (Diameter Inches)	Weight (lbs. oz.)	Plant Frame (a)	Vigor (a)	Butt Appearance (c)	Butt Size (f)	Field Holding (a)	Incidence of Disease (a)	Evaluation Date	KEY (a) 5 = most desirable, 1 = least desirable (b) M = mature O = over U = under (c) 5 = dark 4 = bright 3 = dull 2 = light 1 = yellowish (d) 5 = heavy 1 = light (e) 5 = smooth & round 4 = smooth & flat 3 = ribby 2 = sheepsnoosed 1 = concave Comments:
Legacy - American Takii Seed	3.25	M	3.5	4.0	4.0	6.0	1.8	3.5	4.0	4	4.0	2.5	3.5	3-3 3-10	Slightly lacking in uniformity with light wrappers. Nice dense head. Some sclerotinia and downy present.
Barn Burner - Asgrow Seed	4.0	M	4.5	4.0	4.0	6.5	1.8	4.0	4.0	4	4.0	4.5	5.0	3-3 3-10	Good habit with strong wrappers. Excellent overall uniformity. Excellent field holding.
Sonora - Harris Moran Seed	3.75	M	3.5	4.0	4.0	6.5	1.75	4.0	4.0	4	3.5	4.0	4.0	3-3 3-10	Slightly lacking in uniformity of maturity & butt size. Some downy present.
Kofa - Synergene Seed	3.75	M	4.0	4.0	3.5	7.0	1.5	4.0	4.0	4	4.0	4.0	4.0	3-3 3-10	Lacking in head density. Good overall uniformity. Some downy present.
El Toro - Harris Moran Seed	3.75	M	4.0	4.0	4.0	6.5	2.4	4.0	4.0	5-4	4.5	3.5	4.0	3-3 3-10	Very good density & overall uniformity. Moderate resistance to downy.
Desert Storm - Harris Moran Seed	4.5	M	4.5	4.0	4.5	7.5	2.2	4.0	4.0	5	4.0	4.5	5.0	3-3 3-10	Good uniformity, habit, density & leaf texture. Excellent field holding & downy resistance.
Select - Shamrock Seed	4.0	M	3.0	3.5	4.0	6.5	1.8	4.0	4.0	5-4	3.0	4.5	4.5	3-3 3-10	Some variability in butt appearance & size. Good habit & wrappers. Good field holding.
Winterhaven - Pybas Seed	4.0	M	4.0	4.0	4.0	7.0	2.0	4.0	4.0	5-4	4.0	4.5	4.0	3-3 3-10	Good overall uniformity & habit. Excellent density. Good field holding. Some sclerotinia present.