



2010 Organic Squash Variety Trial Results

The following tables present the results of organic squash variety trials that took place on research stations and cooperating farms in Washington, Oregon, Wisconsin, and Minnesota in 2011. These trials were part of the USDA-OREI funded project Northern Organic Variety Improvement Collaborative. Trials will continue in 2012, and 2013. Detailed descriptions of the trial methods and rating systems are listed after the results tables.



List of Tables

1	NOVIC 2011 Washington Delicata Squash Data	3
2	NOVIC 2011 Oregon Squash Data - Part 1	5
3	NOVIC 2011 Oregon Squash Data - Part 2	6
4	NOVIC 2011 Wisconsin Squash Data - Part 1	8
5	NOVIC 2011 Wisconsin Squash Data - Part 2	9

Table 1: NOVIC 2011 Washington Delicata Squash Data

Variety Name	Powdery Mildew (1-5)	Fruit Habit (1-5)	Fruits per plant	Marketable Fruit Number	Marketable Weight (kg)	Notes
Butternut	0.00 c	1.00 a	NA NA	NA NA	NA NA	Not marketable because: immaturity
Cornell Bush	1.00 bc	1.00 a	2.90 a	27.75 a	8.18 a	Lighter white than others Not marketable because: pale, greenish, immature, small Not marketable because: immaturity pale, small Not marketable because: immaturity Not marketable because: immaturity Not marketable because: small, moldy
Hessel	1.67 abc	1.25 a	3.10 a	44.20 a	19.57 a	Plants seem weaker than others, Not marketable because: immaturity compact habit, Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity
HM Delicata	2.33 abc	1.75 a	3.36 a	47.40 a	17.90 a	Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity and mold
HM Sugar Dumpling	3.00 ab	1.67 a	3.67 a	40.50 a	23.90 a	More green, smoother, smaller, shorter, plants smaller than JSS Sugar Dumpling, fruit breaks off the stem easily, large fruits, good skin color Not marketable because: immaturity only variety w/ lush green foliage at harvest; little dieback/ PM, Not marketable because: immaturity Not marketable because: immaturity
Honey Boat	2.17 abc	1.50 a	5.06 a	24.50 a	7.88 a	Downey mildew sooner?, Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity
JSS Delicata	3.33 ab	1.50 a	4.73 a	58.40 a	22.12 a	Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity
JSS Sweet Dumpling	4.00 a	1.50 a	3.54 a	37.80 a	16.02 a	More white than HM Sugar Dumpling, ribs more defined long, strong vines, Not marketable because: pale, greenish, immature, small Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity and mold
OSU 19	3.00 ab	1.75 a	4.68 a	60.40 a	27.01 a	Most uniform in size long vines, Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity Not marketable because: small, moldy

Table 1: (continued)

Variety Name	Powdery Mildew (1-5)	Fruit Habit (1-5)	Fruits per plant	Marketable Fruit Number	Marketable Weight (kg)	Notes
Sugar Loaf	2.33 abc	1.25 a	4.46 a	29.00 a	9.23 a	Smaller plants than others, Not marketable because: pale, greenish, immature, small Not marketable because: immaturity Not marketable because: immaturity Not marketable because: immaturity
Zeppelin	2.33 abc	1.30 a	4.57 a	57.55 a	20.54 a	bold yellow, looks ripe Not marketable because: immaturity Not marketable because: immaturity and mold Not marketable because: immaturity, weeds Not marketable because: immaturity and mold Not marketable because: immaturity Not marketable because: moldy Not marketable because: immaturity

Trait scores are colored on a spectrum with green being best and red being worst. Letters after the scores represent groups of varieties whose means are not significantly different for that trait. In other words, all the varieties which have a score with an "a" after the number have essentially the same score for that trait. NA indicates that data were not available for that trait for a particular variety. For more information about what the scores mean and how they were measured, please see the protocols at the end of this document.

Table 2: NOVIC 2011 Oregon Squash Data - Part 1

Variety Name	Powdery Mildew (1-5)	Fruit Habit (1-5)	Fruits per plant	Marketable Fruit Number	Marketable Weight (kg)	Fruit External Color (1-5)	Fruit Internal Color (1-5)	Texture (1-5)
Bugle	4.50 a	5.00 a	2.75 b	38.80 a	18.93 a	1.75 c	2.25 bc	4.05 a
Early Butternut	3.83 a	4.00 a	3.16 ab	32.20 a	24.46 a	2.25 bc	2.75 abc	3.50 abc
Hunter	3.00 a	5.00 a	2.25 b	41.20 a	18.49 a	4.00 ab	3.25 abc	3.10 abc
JSW 6823	3.50 a	5.00 a	3.44 ab	42.40 a	24.71 a	2.75 bc	2.75 abc	3.67 ab
Butternut								
Long Island	3.00 a	5.00 a	6.80 a	11.20 a	35.15 a	5.00 a	3.75 a	2.62 c
Cheese								
Metro	4.50 a	4.50 a	3.04 ab	40.80 a	26.23 a	3.00 bc	2.00 c	3.52 abc
Pilgrim	3.50 a	4.50 a	3.91 ab	37.80 a	30.77 a	2.75 bc	2.75 abc	3.25 abc
Tiana	4.00 a	4.50 a	3.91 ab	41.00 a	31.71 a	2.75 bc	3.50 ab	2.92 bc
Waltham	3.33 a	5.00 a	2.90 b	28.75 a	23.83 a	2.67 bc	2.00 c	3.27 abc

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Table 3: NOVIC 2011 Oregon Squash Data - Part 2

Variety Name	Sweetness (1-5)	Flavor (1-5)	Overall (1-5)	Notes
Bugle	2.62 a	3.52 a	3.25 a	Not marketable because: unripe Not marketable because: unripe Not marketable because: cracking Not marketable because: Cracking
Early Butternut	2.80 a	3.20 a	3.27 a	Not marketable because: unripe Not marketable because: unripe Not marketable because: cracking and bite marks
Hunter	2.77 a	3.35 a	2.77 a	Not marketable because: range of shapes and sizes, unripe, too small Not marketable because: odd shapes, 5 unripe Not marketable because: too small Not marketable because: Weird shape (pearlike) and cracked.
JSW 6823 Butternut	2.27 a	2.80 a	2.67 a	Not marketable because: unripe Not marketable because: unripe Not marketable because: no marketables Not marketable because: small and immature
Long Island Cheese	2.58 a	2.77 a	2.33 a	Not marketable because: unripe and rotting Not marketable because: unripe Not marketable because: unripe/not yet mature Not marketable because: unripe
Metro	2.12 a	3.10 a	2.75 a	Not marketable because: unripe Not marketable because: unripe Not marketable because: one too little and too green Not marketable because: too small
Pilgrim	2.67 a	3.20 a	2.83 a	Not marketable because: unripe. A few cracking Not marketable because: unripe/not yet mature
Tiana	1.95 a	2.85 a	2.33 a	Not marketable because: unripe Not marketable because: one split, 3 with bite marks Not marketable because: Scarred
Waltham	2.20 a	3.30 a	2.57 a	Not marketable because: unripe

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Table 4: NOVIC 2011 Wisconsin Squash Data - Part 1

Variety Name	Powdery Mildew (1-5)	Fruit Habit (1-5)	Marketable Fruit Number	Marketable Weight (kg)	Length (cm)	Diameter (cm))	Fruit External Color (1-5)	Fruit Internal Color (1-5)
Bugle	3.00 a	4.67 a	18.40 a	24.95 a	19.77 abcd	9.90 b	3.50 ab	1.50 c
Butterfly	2.00 a	4.33 a	18.67 a	32.59 a	23.67 ab	12.10 b	2.00 ab	4.00 abc
Early Butternut	2.67 a	4.33 a	20.00 a	26.19 a	20.00 abcd	11.83 b	2.33 ab	3.00 abc
Honeynut	2.33 a	4.67 a	29.80 a	17.67 a	13.33 cd	8.60 b	4.00 ab	4.33 ab
Hunter	1.67 a	5.00 a	30.83 a	27.68 a	11.93 d	9.30 b	5.00 a	2.00 bc
JSW 6823	NA NA	NA NA	4.50 a	14.17 a	NA NA	NA NA	NA NA	NA NA
JSW 6823 Butternut	3.00 a	5.00 a	36.67 a	36.63 a	18.83 abcd	10.00 b	1.33 b	3.33 abc
Long Island Cheese	3.33 a	5.00 a	16.40 a	73.34 a	16.10 bcd	22.77 a	3.33 ab	2.00 bc
Metro	3.33 a	4.67 a	23.17 a	36.58 a	22.10 ab	11.13 b	2.67 ab	4.00 abc
Nutter Butter	2.33 a	5.00 a	23.00 a	42.76 a	23.73 ab	11.60 b	2.50 ab	2.00 bc
Pilgrim	2.33 a	4.67 a	29.40 a	47.23 a	21.57 abc	11.63 b	2.33 ab	3.00 abc
Tiana	2.67 a	4.67 a	38.67 a	60.40 a	21.00 abc	10.50 b	4.00 ab	5.00 a
Victory	NA NA	NA NA	13.50 a	19.11 a	NA NA	NA NA	NA NA	NA NA
Waltham	2.33 a	4.33 a	23.00 a	43.98 a	25.47 a	11.50 b	3.67 ab	1.67 c

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Table 5: NOVIC 2011 Wisconsin Squash Data - Part 2

Variety Name	Texture (1-5)	Sweetness (1-5)	Pithyness (1-5)	Notes
Bugle	3.50 ab	2.50 a	1.00 b	Not marketable because: 10 cracked/1 cuke beetle/ rest warty Not marketable because: 1 cuke beet/4 warty/1 spotty/rest cracked Not marketable because: 2 mottled/11 split/5 cuke beetle/1 rotten/rest warty
Butterfly	2.33 ab	3.00 a	2.67 ab	Not marketable because: 8 cracked/3 cuke beetle/rest warty Not marketable because: 5 split rest warty Not marketable because: 11 split/1 cuke beetle/1 rotten/rest warty Not marketable because: cracked, Not marketable because: split; rot; cuke beetle, Not marketable because: 1 animal bite; 1 split; 2 unripe
Early Butternut	4.00 ab	3.33 a	2.00 ab	Not marketable because: 3 odd shapes (too long) Not marketable because: 4 split/2 deformed stem/1 ringspot/1 cuke beetle/rest warty Not marketable because: 16 split/4 cuke beetle/2 mottled/5 warty Not marketable because: rot, split; immature, Not marketable because: smashed by tractor;
Honeynut	5.00 a	4.00 a	1.67 ab	Not marketable because: 3 immature/4 warty Not marketable because: warty Not marketable because: 30 warty/1 split/7 cuke beetle Not marketable because: too small,
Hunter	3.00 ab	2.67 a	1.00 b	Not marketable because: 6 too small/4 cuke beetle/1 split/the rest warty Not marketable because: 1 split/6 cuke beetles/rest warty Not marketable because: 2 ringspot/3 cuke beetle/3 mottled/rest warty Not marketable because: immature/oddly shaped, Not marketable because: 1 split; 1 virus; 2 animal bites
JSW 6823	NA NA	NA NA	NA NA	Not marketable because: too small, 1 cracked, Not marketable because: immature
JSW 6823 Butternut	4.33 ab	2.00 a	2.00 ab	Not marketable because: 7 cuke beetle/1 deformed stem/rest warty Not marketable because: 2 cracked/3 cuke beetle/rest warty Not marketable because: 2 deformed stem/4 cuke beetle/3 split/rest warty
Long Island Cheese	1.33 b	1.00 a	5.00 a	Not marketable because: immature Not marketable because: 1 mottled/3 immature/1 spotty Not marketable because: 1 deformed stem/1 ringspot/2 spotty/rest immature Not marketable because: rot
Metro	2.33 ab	3.33 a	3.00 ab	Not marketable because: 1 blossom end rot/2 split/1 ringspot/10 warty Not marketable because: 3 split/1 ringspot/1 immature/rest warty Not marketable because: 2 split/2 immature/rest warty Not marketable because: 1 smashed by tractor; 1 immature; rows 8, 9, and 10 were shadier, planted on East side near trees
Nutter Butter	3.50 ab	3.50 a	2.00 ab	Not marketable because: 4 ringspot/ 8 cracked/ rest warty Not marketable because: 1 deformed stem/1 warty/16 split Not marketable because: 10 split/1 ringsplot/5 warty

Table 5: (continued)

Variety Name	Texture (1-5)	Sweetness (1-5)	Pithyness (1-5)	Notes
Pilgrim	2.00 ab	2.67 a	3.33 ab	Not marketable because: 4 warty/2 split Not marketable because: 4 split/1 stem deformed/rest warty Not marketable because: 2 deformed stem/4 split/3 cuke beetle/2 mottled/rest warty Not marketable because: unripe; rows 8, 9, and 10 were shadier, planted on East side near trees
Tiana	2.67 ab	2.67 a	3.33 ab	Not marketable because: 4 warty/scarring Not marketable because: 3 deformed stem/9 immature/rest warty Not marketable because: 2 deformed stem/2 ringspot/7 cuke beetle/rest warty Not marketable because: rot; ringspot; immature; crack, Not marketable because: deformed stem
Victory	NA NA	NA NA	NA NA	Not marketable because: rot, split; immature; 1 ringspot, Not marketable because: cracked
Waltham	3.00 ab	2.67 a	2.33 ab	Not marketable because: 8 ringspot/4 cracked/ rest cuke beetle Not marketable because: 1 deformed stem/4 cracked/4 ringspot/4 cuke beetle/ rest warty Not marketable because: 3 ringspot/1 split/2 cuke beetle/3 warty Not marketable because: immature/oddly shaped, cuke beetle, Not marketable because: immature

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