

Season Highlights



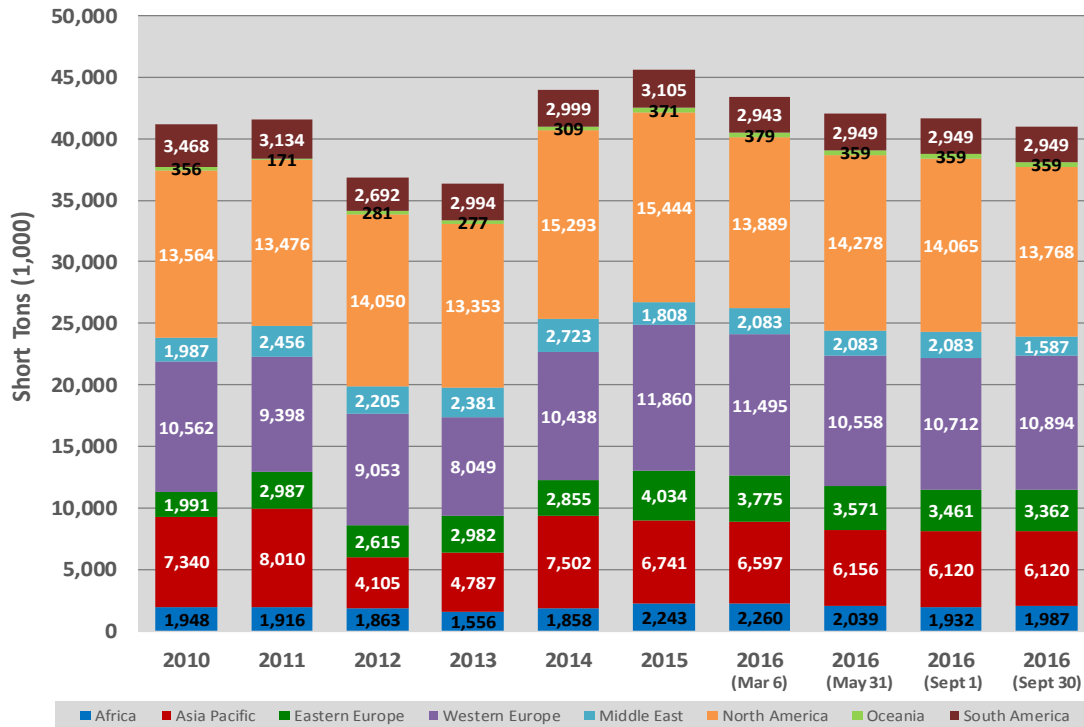
... from field to yield

California Processing Tomato Season Review

2016 Season Review

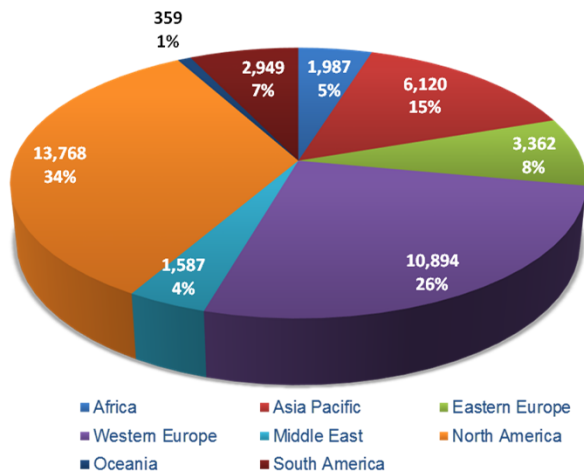
World Production History

Short Tons by Region: 2010 - 2016

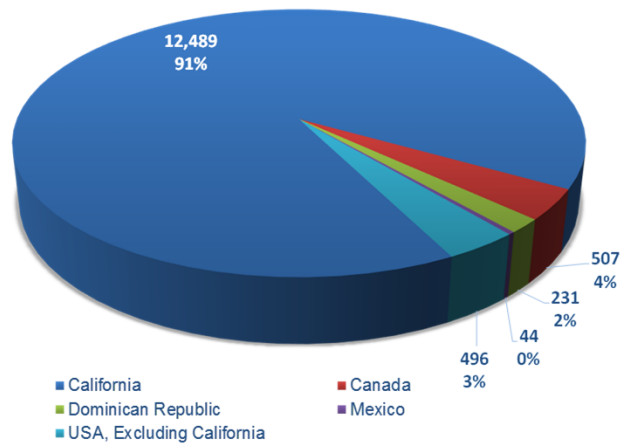


Based on WPTC Production Estimates (9/30/16)

2016 World Production By Region (Short Tons)



2016 World Production North America (Short Tons)

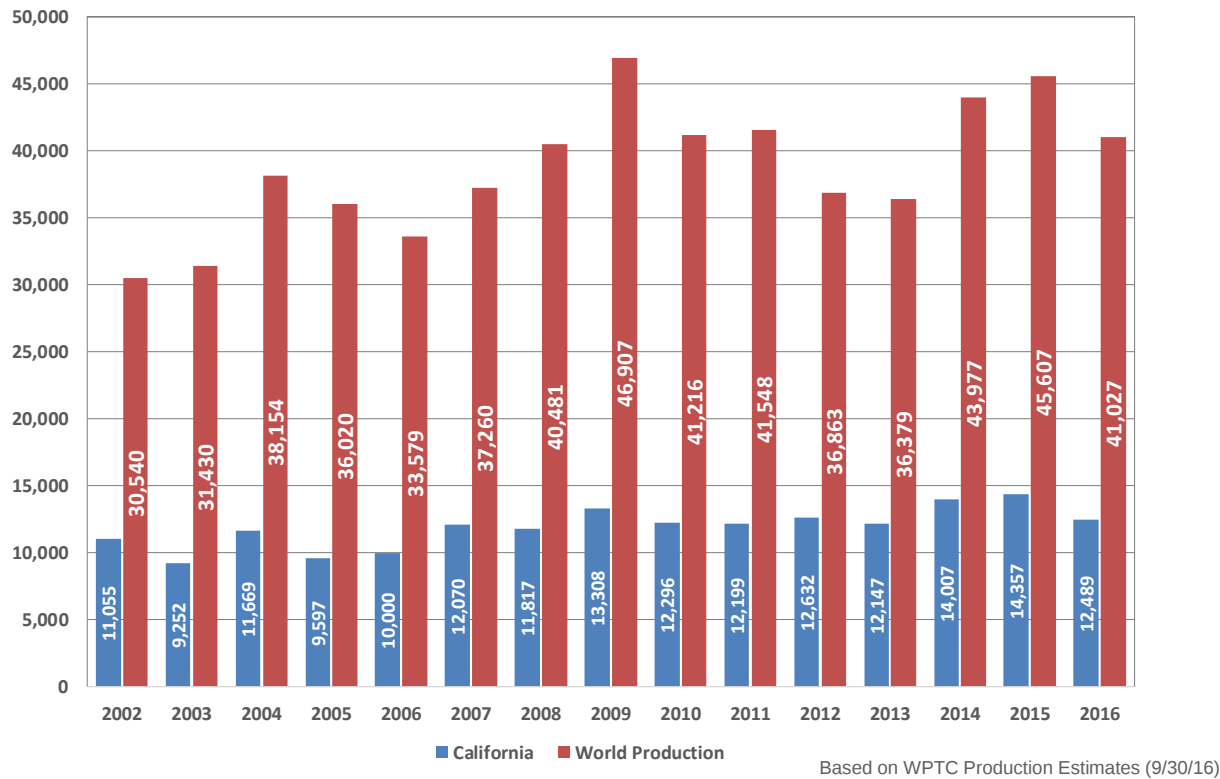


Based on WPTC Production Estimates (9/30/16)

2016 Season Review

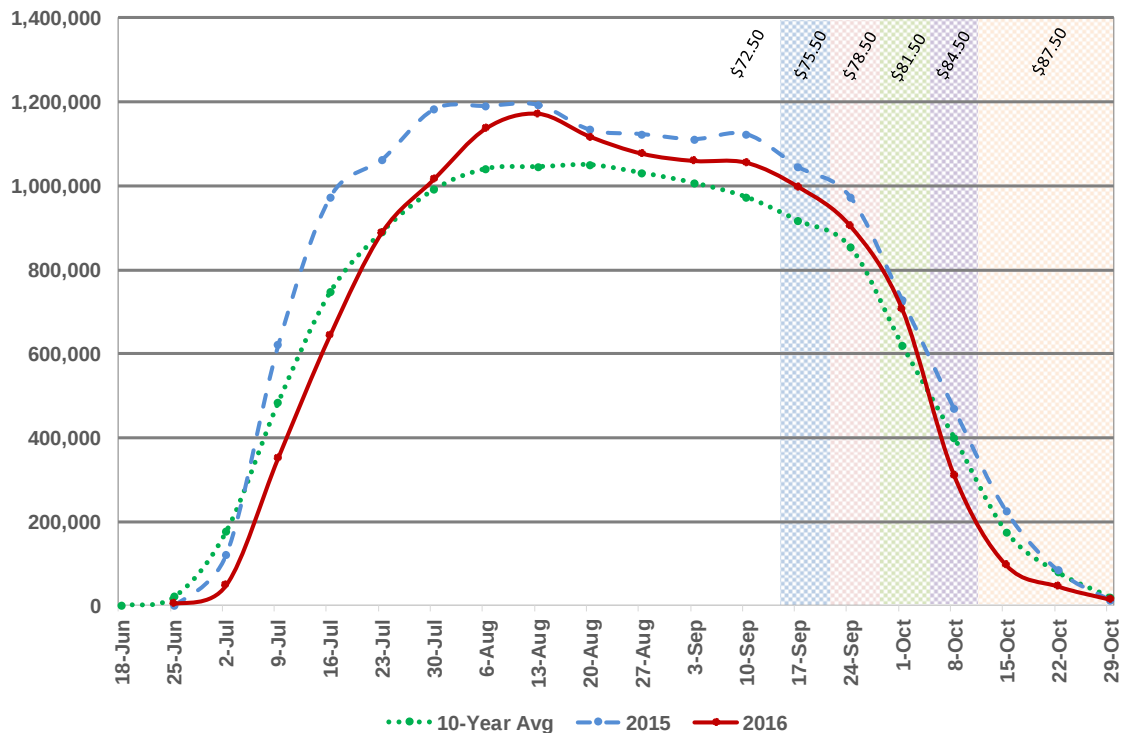
California vs World Production

Short Tons: 2002 - 2016



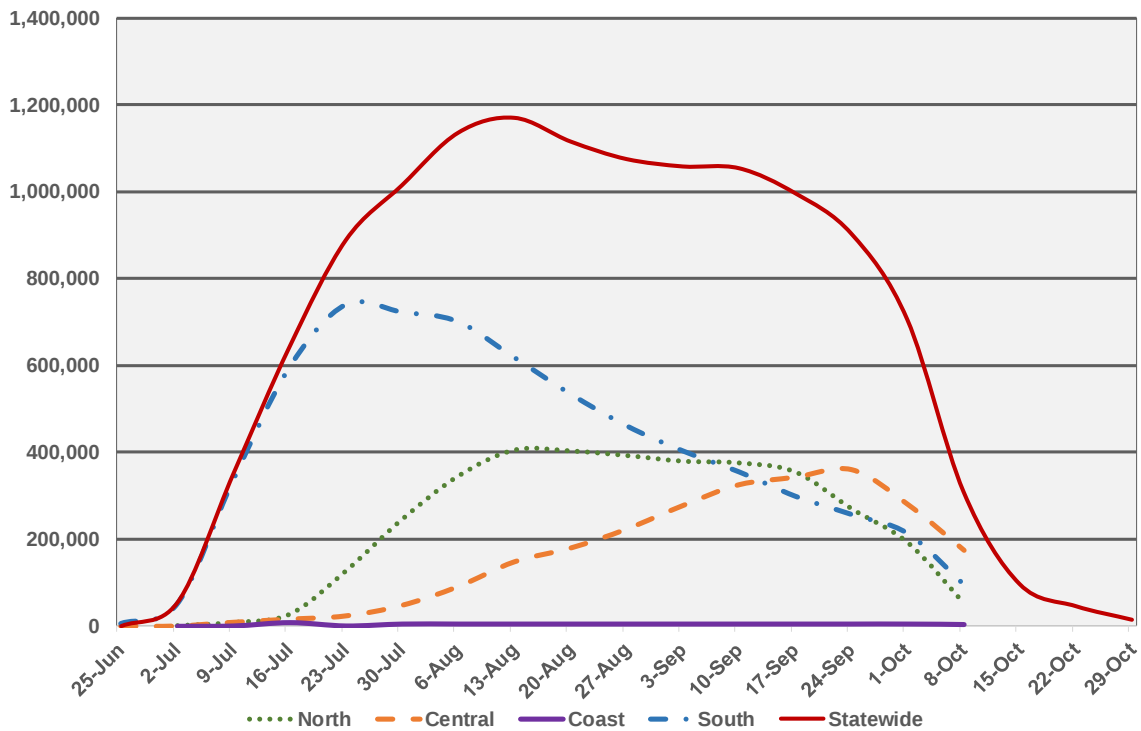
California Processing Tomato Harvest

Tons per Week – 2016, 2015 & 10-Year Average

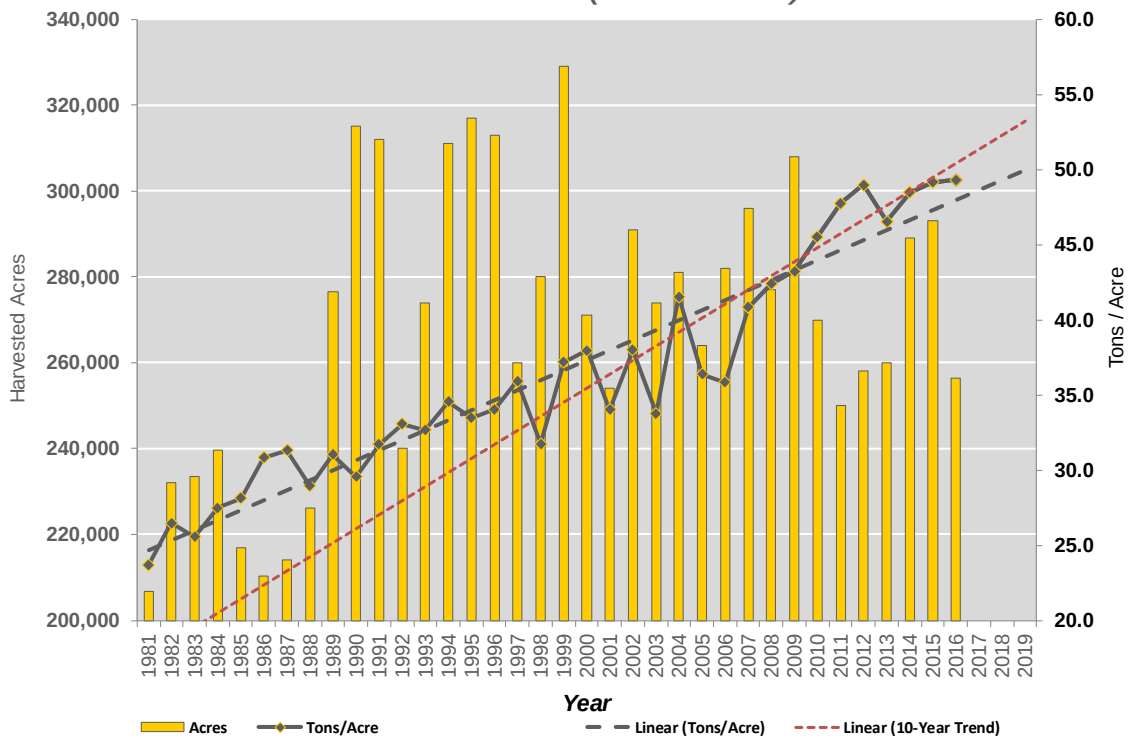


2016 Season Review

California Processing Tomato Harvest *Tons per Week by Region*



California Processing Tomato Harvest *Harvested Acres & Yield (Tons/Acre): 1981 - 2016*



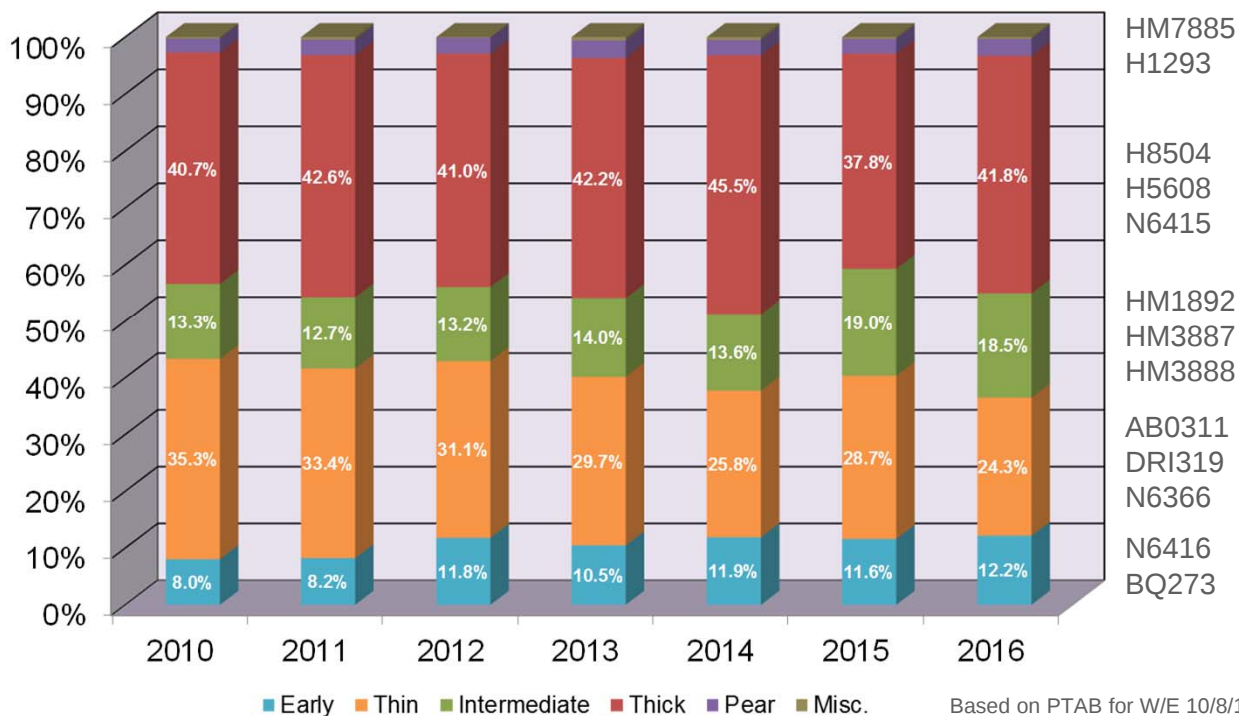
2016 Season Review

AgSeeds Unlimited Use Category Descriptions

Early	Maturity 117 Days or Less
Thin	Juice Bostwick > 14.65
Intermediate	Juice Bostwick 13.40 to 14.65
Thick	Juice Bostwick < 13.40
Pear	Pear Shaped



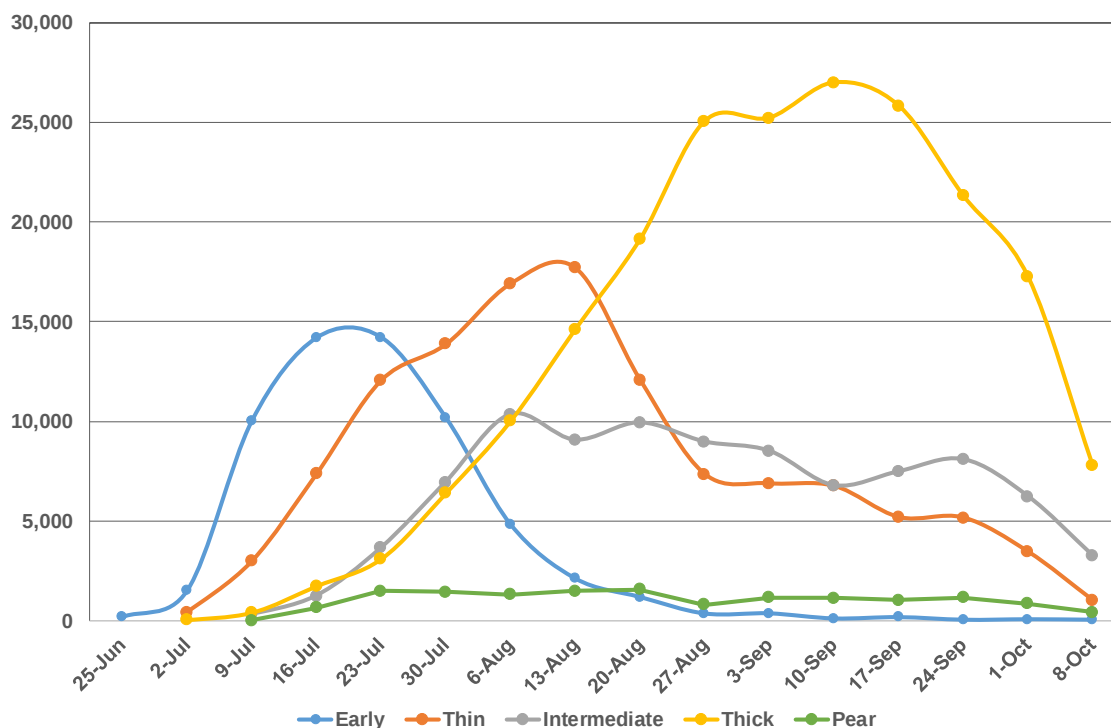
California Processing Tomato Harvest % of Market by Use Category



2016 Season Review

California Processing Tomato Harvest

2016 Loads per Week by Use Category



California Processing Tomato Market

Historical Market Share by Supplier

Supplier	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016 est
Campbell's	3.7%	3.7%	4.0%	5.3%	5.6%	5.8%	0.0%	0.0%	0.0%	0.0%
DeRuiter	14.3%	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Harris Moran ⁽⁴⁾	1.0%	0.7%	1.0%	1.5%	1.4%	1.2%	6.2%	8.9%	14.9%	19.6%
Heinz	46.0%	43.9%	41.0%	44.8%	46.4%	46.8%	47.0%	47.6%	35.5%	31.3%
Lipton	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Orsetti	3.3%	2.1%	1.9%	2.0%	2.6%	1.9%	1.8%	1.0%	0.5%	0.1%
Seminis ⁽²⁾	13.3%	10.3%	23.3%	21.4%	15.4%	13.0%	13.0%	12.2%	14.7%	17.0%
Nunhems ⁽¹⁾	14.6%	22.7%	27.6%	22.0%	24.2%	22.6%	22.6%	22.9%	24.3%	21.7%
United Genetics	0.8%	0.3%	0.3%	1.7%	1.7%	3.5%	3.0%	3.6%	5.9%	3.6%
Woodbridge ⁽³⁾	0.0%	0.0%	0.0%	0.9%	2.0%	4.5%	5.8%	3.0%	2.7%	4.7%
Others	1.1%	0.9%	0.9%	0.5%	0.6%	0.6%	0.8%	0.9%	1.5%	2.0%

Note: (1) Nunhems market share includes Lipton beginning in 2008

(2) Monsanto/Seminis market share includes DeRuiter beginning in 2009

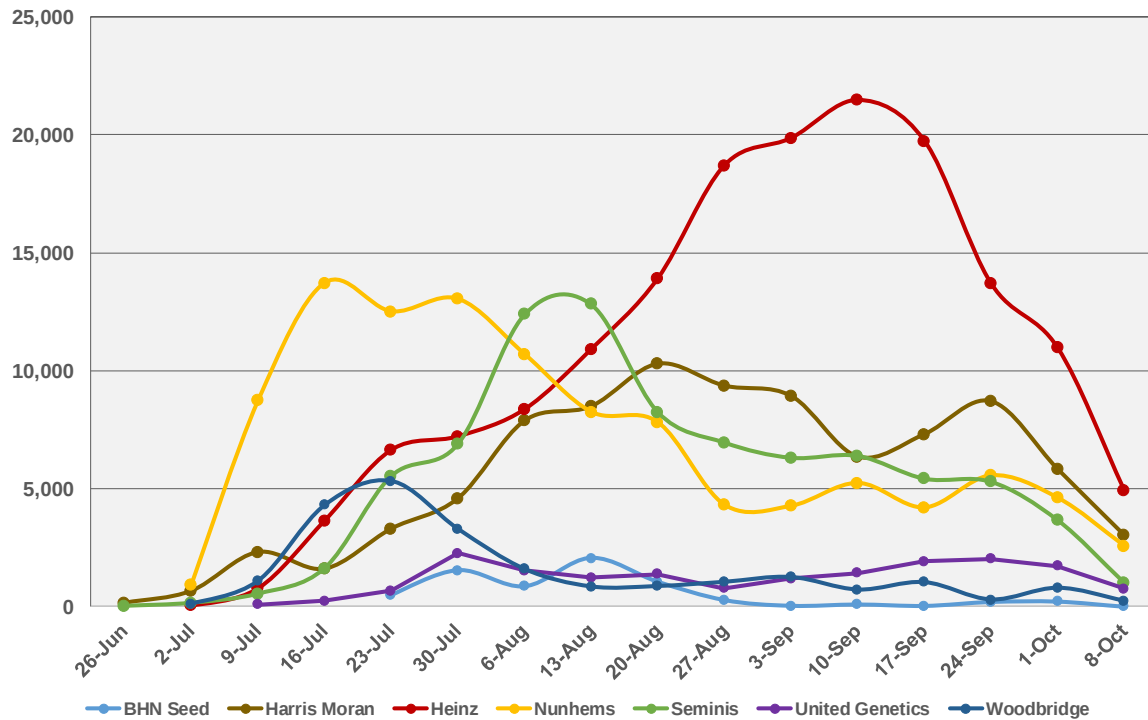
(3) Woodbridge market share separated from Others beginning in 2010

(4) Harris Moran market share includes Campbell's beginning 2013

Based on PTAB for W/E 10/8/16

2016 Season Review

California Processing Tomato Harvest 2016 Loads per Week by Supplier



California Processing Tomato Market 2016 Supplier Market Share by Use Category

Supplier	Early	Thin Viscosity	Intermediate Viscosity	Thick Viscosity	Pear	Misc	Total
BHN Seed	5.1%	2.8%	0.4%	0.0%	0.0%	0.0%	1.4%
Harris Moran	9.0%	0.0%	81.5%	5.8%	32.7%	0.0%	19.6%
Heinz	13.3%	1.0%	1.3%	66.6%	48.3%	0.0%	31.3%
Nunhems	40.6%	31.7%	9.0%	16.5%	17.2%	0.0%	21.7%
Orsetti	0.0%	0.0%	0.0%	0.0%	1.5%	0.0%	0.1%
Seminis	6.0%	61.8%	2.9%	1.6%	0.2%	0.0%	17.0%
United Genetics	0.0%	0.0%	4.4%	6.8%	0.0%	0.0%	3.6%
Woodbridge	25.5%	2.6%	0.4%	2.0%	0.0%	0.0%	4.7%
Misc	0.3%	0.0%	0.0%	0.8%	0.0%	100.0%	0.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Based on PTAB for W/E 10/8/16

2016 Season Review

California Processing Tomato Harvest

2016 Supplier Market Share by Region

Supplier	South	Central	North	Coast	Total
BHN Seed	0.03%	0.04%	4.86%	0.00%	1.41%
Harris Moran	16.17%	20.89%	25.06%	5.86%	19.59%
Heinz	32.92%	30.64%	29.35%	0.11%	31.33%
Nunhems	26.15%	23.36%	12.36%	30.29%	21.70%
Seminis	14.33%	17.85%	20.53%	61.53%	16.96%
United Genetics	3.47%	5.44%	2.73%	0.00%	3.64%
Woodbridge	6.31%	1.39%	3.99%	2.21%	4.66%
Misc	0.62%	0.40%	1.12%	0.00%	0.72%
Total	100.00%	100.00%	100.00%	100.00%	100.00%

California Processing Tomato Market

Top 25 Varieties – PTAB as of W/E 10/8/16

	Variety	Supplier	Category	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
1	H8504	Heinz	Thick			X	47,498	9.68%	5.27	24.5	0.9	0.9	4.33	2.2
2	AB0311	Seminis	Thin	X			40,496	8.25%	5.81	23.8	1.6	1.4	4.34	1.5
3	DR1319	Seminis	Thin	X			33,198	6.77%	5.81	24.7	2.1	1.3	4.37	1.3
4	N6366	Nunhems	Thin				32,261	6.58%	5.53	25.2	2.4	0.7	4.40	1.6
5	HM1892	Harris Moran	Intermediate			X	29,113	5.93%	5.55	24.6	1.5	0.9	4.44	2.1
6	H5608	Heinz	Thick	X			26,731	5.45%	4.95	23.9	1.5	1.8	4.40	1.9
7	N6415	Nunhems	Thick	X		X	22,248	4.53%	5.20	24.5	1.1	1.2	4.36	1.7
8	HM3887	Harris Moran	Intermediate	X			21,748	4.43%	5.47	25.8	1.3	1.3	4.39	2.3
9	N6416	Nunhems	Early	X			16,810	3.43%	5.10	24.9	1.6	0.3	4.31	1.8
10	BQ273	Woodbridge	Early	X			14,900	3.04%	5.41	24.9	1.5	0.5	4.34	2.3
11	H4707	Heinz	Thick			X	13,214	2.69%	5.12	25.5	0.9	1.0	4.38	2.6
12	HM3888	Harris Moran	Intermediate	X		X	12,695	2.59%	5.54	25.9	1.2	1.2	4.48	2.5
13	UG19406	United Genetics	Thick			X	11,585	2.36%	5.60	24.4	0.9	1.1	4.30	1.6
14	N6410	Nunhems	Thick			X	10,843	2.21%	5.35	24.8	1.5	1.5	4.40	2.9
15	H2401	Heinz	Thick			X	9,204	1.88%	5.12	24.7	1.2	1.6	4.34	2.7
16	H1428	Heinz	Thick	X		X	7,971	1.62%	4.94	23.8	0.7	1.2	4.33	2.7
17	HM9905	Harris Moran	Intermediate			X	7,582	1.55%	5.19	24.9	1.0	0.8	4.42	1.8
18	H1015	Heinz	Early			X	7,465	1.52%	5.11	25.1	1.3	0.6	4.44	2.2
19	HM4885	Heinz	Thick	X		X	7,257	1.48%	5.38	24.0	0.8	1.7	4.33	1.4
20	N6397	Nunhems	Early				6,836	1.39%	5.25	24.8	1.4	0.5	4.41	1.8
21	H5702	Heinz	Thick			X	6,614	1.35%	4.90	24.7	0.6	0.8	4.36	3.9
22	H5508	Heinz	Thick	X		X	5,828	1.19%	4.87	24.4	0.4	0.8	4.34	2.1
23	N6402	Nunhems	Thin	X			5,279	1.08%	5.61	25.2	1.6	1.0	4.42	1.9
24	H9663	Heinz	Thick				4,771	0.97%	5.13	23.7	3.4	2.8	4.42	4.7
25	HM7885	Harris Moran	Pear			X	4,735	0.97%	5.22	25.0	1.2	0.8	4.54	0.8

2016 Season Review

California Processing Tomato Market

Use Category: Early, **12.2%** of Market

Based on PTAB 10/8/16

Category	Variety	Supplier	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
Early	N6416	Nunhems	X			16,810	28.16%	5.10	24.9	1.6	0.3	4.31	1.8
Early	BQ273	Woodbridge	X			14,900	24.96%	5.41	24.9	1.5	0.5	4.34	2.3
Early	H1015	Heinz			X	7,465	12.51%	5.11	25.1	1.3	0.6	4.44	2.2
Early	N6397	Nunhems				6,836	11.45%	5.25	24.8	1.4	0.5	4.41	1.8
Early	BP13	BHN Seed	X	X		3,038	5.09%	4.86	27.4	1.8	0.4	4.39	3.5
Early	CXD187	Harris Moran				2,590	4.34%	4.72	24.4	2.6	0.4	4.43	1.9
Early	APT410	Seminis				2,295	3.84%	4.93	26.5	2.7	0.6	4.37	2.1
Early	Shasta	Harris Moran				1,769	2.96%	5.31	26.6	3.0	0.4	4.23	1.6
Early	SV0599TM	Seminis				1,310	2.19%	5.21	26.9	0.9	0.4	4.33	0.6
Early	HM5900	Harris Moran	X			639	1.07%	5.58	26.1	2.9	0.6	4.32	1.9
Early	U373	Nunhems				613	1.03%	4.77	24.6	2.7	1.6	4.38	1.3
Early	H5003	Heinz				491	0.82%	4.77	26.5	4.2	0.8	4.45	3.0
Early	HM1893	Harris Moran	X			370	0.62%	5.69	24.4	3.0	0.2	4.31	0.9
Early	BQ400	Woodbridge	X			314	0.53%	5.66	22.7	1.0	0.4	4.40	1.0
All Others						251	0.42%	5.30	25.0	0.9	0.4	4.28	1.1
Early Total						59,691	100.00%	5.18	25.2	1.7	0.5	4.36	2.0

California Processing Tomato Market

Use Category: Thin, **24.3%** of Market

Based on PTAB 10/8/16

Category	Variety	Supplier	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
Thin	AB0311	Seminis	X			40,496	33.97%	5.81	23.8	1.6	1.4	4.34	1.5
Thin	DR1319	Seminis	X			33,198	27.85%	5.81	24.7	2.1	1.3	4.37	1.3
Thin	N6366	Nunhems				32,261	27.07%	5.53	25.2	2.4	0.7	4.40	1.6
Thin	N6402	Nunhems	X			5,279	4.43%	5.61	25.2	1.6	1.0	4.42	1.9
Thin	BP2	BHN Seed	X	X		3,368	2.83%	4.97	26.7	2.1	0.8	4.49	3.6
Thin	BQ205	Woodbridge				1,533	1.29%	5.68	25.4	2.0	1.1	4.38	1.0
Thin	H1161	Heinz				1,174	0.98%	5.90	25.5	2.9	0.6	4.34	1.8
Thin	BQ206	Woodbridge				1,113	0.93%	5.59	25.4	1.8	1.0	4.35	0.8
Thin	N6407	Nunhems	X		X	260	0.22%	5.86	26.3	0.3	0.6	4.33	1.5
Thin	BQ313	Woodbridge	X			170	0.14%	4.84	24.6	3.5	0.7	4.42	1.1
Thin	BQ296	Woodbridge	X			141	0.12%	5.91	27.2	1.3	1.6	4.33	1.6
Thin	BQ163	Woodbridge				102	0.09%	5.09	29.7	2.5	0.5	4.42	3.1
All Others						99	0.08%	5.46	24.8	1.9	1.4	4.35	2.5
Thin Total						119,194	100.00%	5.70	24.6	2.0	1.1	4.37	1.5

2016 Season Review

California Processing Tomato Market

Use Category: Intermediate, **18.5%** of Market

Based on PTAB 10/8/16

Category	Variety	Supplier	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
Intermediate	HM1892	Harris Moran			X	29,113	32.03%	5.55	24.6	1.5	0.9	4.44	2.1
Intermediate	HM3887	Harris Moran	X			21,748	23.93%	5.47	25.8	1.3	1.3	4.39	2.3
Intermediate	HM3888	Harris Moran	X		X	12,695	13.97%	5.54	25.9	1.2	1.2	4.48	2.5
Intermediate	HM9905	Harris Moran			X	7,582	8.34%	5.19	24.9	1.0	0.8	4.42	1.8
Intermediate	N6394	Nunhems	X			4,466	4.91%	5.62	24.4	2.8	0.8	4.47	2.0
Intermediate	N6404	Nunhems	X			3,503	3.85%	5.28	25.3	2.6	2.1	4.46	1.6
Intermediate	UG16609	United Genetics	X			2,933	3.23%	5.54	24.4	2.4	0.4	4.34	1.5
Intermediate	CXD255	Harris Moran				2,079	2.29%	5.21	26.2	1.0	1.1	4.34	0.9
Intermediate	HP849	Seminis			X	1,683	1.85%	5.19	24.7	0.7	1.4	4.31	0.9
Intermediate	H9491	Heinz				1,151	1.27%	5.12	25.1	2.9	0.5	4.39	3.1
Intermediate	UG9436	United Genetics				1,009	1.11%	5.83	23.8	1.8	1.0	4.41	1.6
Intermediate	HM4886	Harris Moran	X			557	0.61%	6.42	25.4	1.9	1.4	4.39	1.2
Intermediate	SV8516TM	Seminis	X			526	0.58%	5.50	24.3	2.7	2.3	4.39	1.0
Intermediate	BP16	BHN Seed	X	X		395	0.43%	5.35	25.6	1.5	2.3	4.46	3.7
Intermediate	BQ142	Woodbridge	X	X		358	0.39%	5.42	24.3	3.0	1.6	4.42	1.0
All Others						1,093	1.20%	5.41	25.2	1.8	2.0	4.39	1.1
Intermediate Total						90,891	100.00%	5.48	25.2	1.5	1.1	4.42	2.1

California Processing Tomato Market

Use Category: Thick, **41.8%** of Market

Based on PTAB 10/8/16

Category	Variety	Supplier	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
Thick	H8504	Heinz			X	47,498	23.19%	5.27	24.5	0.9	0.9	4.33	2.2
Thick	H5608	Heinz	X			26,731	13.05%	4.95	23.9	1.5	1.8	4.40	1.9
Thick	N6415	Nunhems	X		X	22,248	10.86%	5.20	24.5	1.1	1.2	4.36	1.7
Thick	H4707	Heinz			X	13,214	6.45%	5.12	25.5	0.9	1.0	4.38	2.6
Thick	UG19406	United Genetics			X	11,585	5.66%	5.60	24.4	0.9	1.1	4.30	1.6
Thick	N6410	Nunhems			X	10,843	5.29%	5.35	24.8	1.5	1.5	4.40	2.9
Thick	H2401	Heinz			X	9,204	4.49%	5.12	24.7	1.2	1.6	4.34	2.7
Thick	H1428	Heinz	X		X	7,971	3.89%	4.94	23.8	0.7	1.2	4.33	2.7
Thick	HM4885	Harris Moran	X		X	7,258	3.54%	5.38	24.0	0.8	1.7	4.33	1.4
Thick	H5702	Heinz			X	6,614	3.23%	4.90	24.7	0.6	0.8	4.36	3.9
Thick	H5508	Heinz	X		X	5,828	2.85%	4.87	24.4	0.4	0.8	4.34	2.1
Thick	H9663	Heinz				4,771	2.33%	5.13	23.7	3.4	2.8	4.42	4.7
Thick	BQ141	Woodbridge	X	X		4,140	2.02%	4.98	24.6	3.7	2.0	4.42	4.4
Thick	HM4909	Harris Moran	X			3,892	1.90%	5.51	25.7	0.8	2.1	4.27	0.8
Thick	H5701	Heinz			X	3,369	1.64%	4.93	25.4	0.9	1.0	4.33	3.7
Thick	H5706	Heinz				3,346	1.63%	4.96	24.6	0.6	0.7	4.35	3.5
Thick	UG18806	United Genetics			X	2,187	1.07%	5.32	26.5	2.2	1.4	4.35	1.4
Thick	H1310	Heinz	X	X		2,138	1.04%	5.30	24.5	0.9	1.6	4.40	2.6
Thick	H1170	Heinz			X	1,782	0.87%	5.42	25.1	0.7	1.1	4.35	2.2
Thick	H9780	Heinz			X	1,571	0.77%	5.65	22.8	1.0	0.7	4.35	0.6
All Others						8,660	4.23%	5.30	24.3	1.3	1.6	4.40	1.4
Thick Total						204,850	100.00%	5.19	24.5	1.2	1.3	4.36	2.3

2016 Season Review

California Processing Tomato Market

Use Category: Pear, 3.0% of Market

Based on PTAB 10/8/16

Category	Variety	Supplier	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
Pear	HM7885	Harris Moran			X	4,735	32.72%	5.22	25.0	1.2	0.8	4.54	0.8
Pear	H1293	Heinz	X			4,361	30.13%	5.61	23.6	0.9	0.9	4.48	1.6
Pear	H1292	Heinz	X			2,623	18.12%	5.78	23.1	2.5	0.7	4.47	1.3
Pear	N6420	Nunhems	X			2,493	17.23%	5.19	25.3	1.1	1.4	4.45	1.5
Pear	BOS67212	Orsetti				221	1.53%	5.36	24.0	2.2	1.8	4.40	1.2
Pear	HP108	Seminis				25	0.17%	5.17	25.4	1.6	0.8	4.55	1.3
Pear	H1538	Heinz	X			6	0.04%	5.15	23.5	0.8	0.5	4.33	0.5
Pear	CAL MARZANO 2	United Genetics				5	0.03%	4.44	25.6	0.2	2.1	4.42	0.9
Pear	HMX8163	Harris Moran	X			4	0.03%	5.65	24.5	0.6	0.9	4.37	0.8
Pear Total						14,473	100.00%	5.43	24.3	1.3	0.9	4.49	1.3

California Processing Tomato Market

F3 Resistant Varieties, 3.3% of Market

Based on PTAB 10/8/16

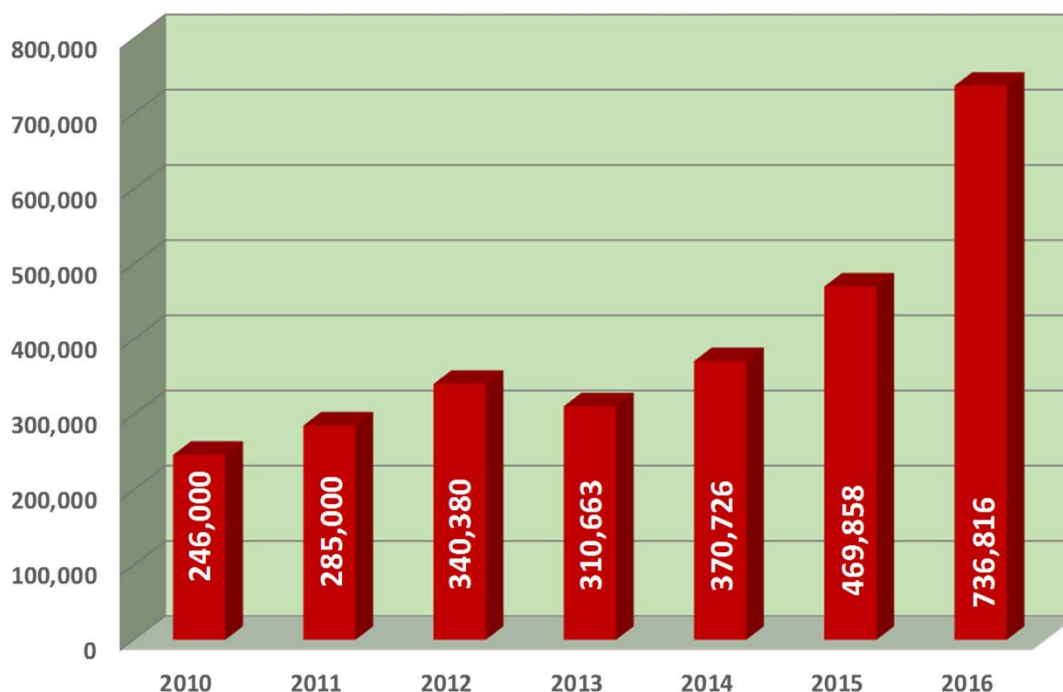
Variety	Supplier	Category	TSW	F3	EFS	Total Loads	% of Loads	Solids	Color	LU	Mold	pH	Green
BP13	BHN Seed	Early	X	X		3,038	18.60%	4.86	27.4	1.8	0.4	4.39	3.5
BP2	BHN Seed	Thin	X	X		3,368	20.62%	4.97	26.7	2.1	0.8	4.49	3.6
BP16	BHN Seed	Intermediate	X	X		395	2.42%	5.35	25.6	1.5	2.3	4.46	3.7
BQ142	Woodbridge	Intermediate	X	X		358	2.19%	5.42	24.3	3.0	1.6	4.42	1.0
N6429	Nunhems	Intermediate	X	X	X	89	0.54%	4.94	25.7	1.5	2.3	4.44	1.6
SV8232TM	Seminis	Intermediate	X	X		64	0.39%	5.46	22.8	4.9	1.5	4.40	2.0
BP24	BHN Seed	Intermediate	X	X		13	0.08%	5.01	26.6	0.7	1.6	4.39	1.3
BQ141	Woodbridge	Thick	X	X		4,140	25.34%	4.98	24.6	3.7	2.0	4.42	4.4
H1310	Heinz	Thick	X	X		2,138	13.09%	5.30	24.5	0.9	1.6	4.40	2.6
SV2493TM	Seminis	Thick	X	X		1,010	6.18%	5.43	24.2	2.4	2.3	4.42	1.4
H1422	Heinz	Thick		X	X	662	4.05%	5.64	24.8	1.2	1.2	4.37	2.2
CXD282	Harris Moran	Thick		X		480	2.94%	5.37	23.3	1.6	1.3	4.38	2.0
N6428	Nunhems	Thick	X	X	X	411	2.52%	5.09	25.5	0.9	1.6	4.39	1.4
All Others						169	1.03%	4.99	25.3	1.0	1.6	4.39	1.7
F3 Total						16,335	100.00%	5.09	25.5	2.2	1.4	4.42	3.3

Note: Thin Viscosity - Juice Bostwick > 14.65, Intermediate Viscosity - Juice Bostwick 13.40 - 14.65, Thick Viscosity - Juice Bostwick < 13.40

2016 Season Review

California Processing Tomato Harvest

Organic Tons History: 2010 - 2016



California Processing Tomato Harvest

Organic Tons by Region: 2016 vs 2015

REGION	COUNTY	2015	2016
NORTH	BUTTE	13,010	16,509
NORTH	COLUSA	0	11,241
NORTH	SACRAMENTO	4,049	4,978
NORTH	SUTTER	27,228	29,112
NORTH	YOLO	123,002	149,425
NORTH TOTAL		167,289	211,265
CENTRAL	CONTRA COSTA	1,920	1,715
CENTRAL	MERCED	20,323	48,487
CENTRAL	SOLANO	0	13,828
CENTRAL TOTAL		22,243	64,030
SOUTH	FRESNO	143,906	219,460
SOUTH	KERN	94,512	138,611
SOUTH	KINGS	11,647	26,456
SOUTH	MADERA	18,553	53,330
SOUTH TOTAL		268,618	437,857
COAST	SAN BENITO	4,425	20,139
COAST	SAN LUIS OBISPO	5,384	3,525
COAST	SANTA CLARA	1,899	0
COAST TOTAL		11,708	23,664
ORGANIC TOTAL		469,858	736,816
OVERALL TOTAL		14,361,188	12,646,980
% ORGANIC		3.3%	5.8%

2016 Season Review



Variety Review



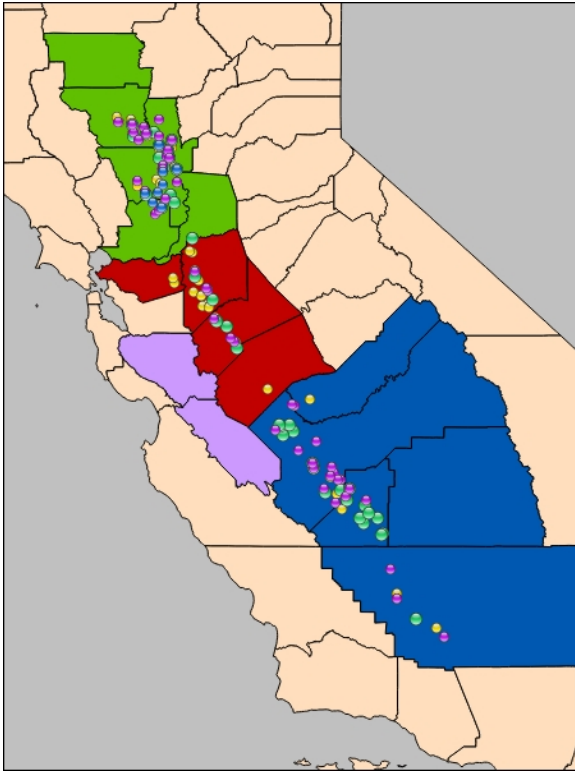
2016

Commercial Varieties



2016 Season Review

2016 Trial Distribution



- **Plot (72 Locations)**

- Chemistry & early indications of horticultural performance

- **GT (64 Locations)**

- First test of commercial viability

- **Adaptive (72 Locations)**

- Confirmation of commercial potential

- **Specialty (15 Locations)**

- All other Trials Testing Chemistry, Yield, and Dice Recovery.



2016 Season Review

2016 Featured Varieties



HMX5900

Brix, Color



HMX4909

TSW, FR, Brix



HMX4885

TSW, Yield, EFS



SV2756TM

TSW, Yield, EFS



H1422

TSW, Yield, EFS



2017 Featured Commercial Varieties



HM4885

Thick
TSW, EFS



SV8011TM

Thick
TSW



H1428

Thick
TSW, EFS



HM4909

Thick
TSW, Fr



SV2756TM

Thick
TSW, EFS

2016 Season Review



Commercial Variety



HM4885 VFFNPtsw*



Maturity
125 Days

Category
Thick

TSW
Yes

F3
No

EFS
Yes



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	HM4885	H8504
Fruit Wt	77	75	67
Brix	5.81	5.21	5.04
JB	15.46	11.37	12.18
PPB	5.72	2.69	2.82
pH	4.28	4.29	4.26
A/B	2.24	2.30	2.24
Ostwald	371	809	661

2016 Final PTAB Reports

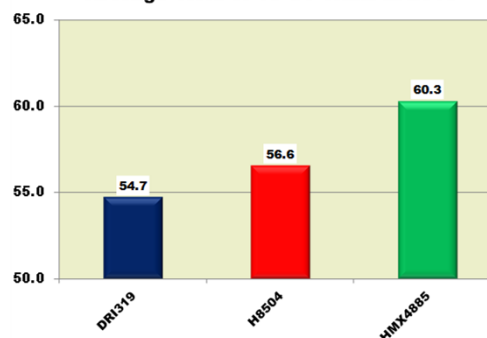
Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
HM4885	7,648	5.36	1.60	0.80	23.9	4.33	1.40
H8504	47,515	5.27	0.90	0.90	24.5	4.33	2.20

Variety	2016 10 GT Trials		Average Yield/Ac
DRI319	A		62.43
HM4885	A		55.53
H8504		B	53.33

LSD @.05 1.5835

30 Data Points

Average Yield of 10 GT Trials in 2015



2016 Adaptive Trials

3 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
H8504	51.5	5.08	1.64	0.22	23.9	1.03	4.31
HM4885	51.2	5.32	2.13	0.67	23.3	1.02	4.38

2016 Block Trial Data

10 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
HM4885	62.2	5.48	1.49	0.63	23.1	1.65	4.33
H8504	59.4	5.31	0.94	0.88	24.0	2.04	4.34

2016 Season Review



Commercial Variety



HM4909

VFFNtswFr



HARRIS MORAN
SEED COMPANY

Maturity
122 Days

Category
Thick

TSW
Yes

F3
No

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	HM4909	H8504
Fruit Wt	77	80	67
Brix	5.81	5.59	5.04
JB	15.46	13.30	12.18
PPB	5.72	4.29	2.82
pH	4.28	4.21	4.26
A/B	2.24	2.21	2.24
Ostwald	371	518	661

2016 Final PTAB Report

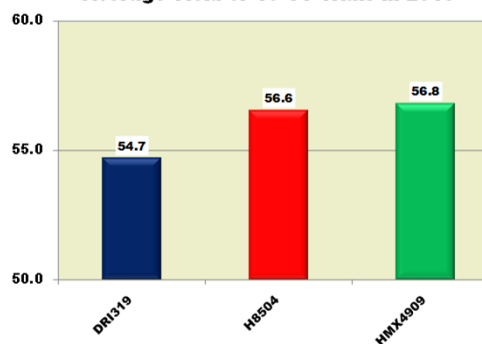
Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
HM4909	3,903	5.51	2.10	0.80	25.7	4.27	0.80
H8504	47,515	5.27	0.90	0.90	24.5	4.33	2.20
DRI319	33,478	5.81	1.30	2.10	24.6	4.37	1.30

Variety	2016 7 GT Trials			Average Yield/Ac
HM4909	A			63.43
DRI319		B		61.06
H8504			C	58.32

LSD @.05 1.6597

21 Data Points

Average Yield of 10 GT Trials in 2015



2016 Adaptive Trials

5 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
HM4909	61.9	5.54	1.98	1.03	26.5	0.67	4.30
DRI319	59.6	5.55	1.21	1.70	24.9	0.60	4.40

2016 Block Trial Data

8 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
Field Variety	52.2	5.28	0.96	0.97	25.4	1.75	4.37
HM4909	51.4	5.80	1.81	1.07	24.9	0.75	4.30

2016 Season Review



Commercial Variety



SV2756TM

VFFNtsw*



Maturity
125 Days

Category
Thick

TSW
Yes

F3
No

EFS
Yes



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	SV2756TM	H8504
Fruit Wt	77	69	67
Brix	5.81	5.10	5.04
JB	15.46	12.08	12.18
PPB	5.72	2.87	2.82
pH	4.28	4.36	4.26
A/B	2.24	2.24	2.24
Ostwald	371	601	661

2016 Final PTAB Report

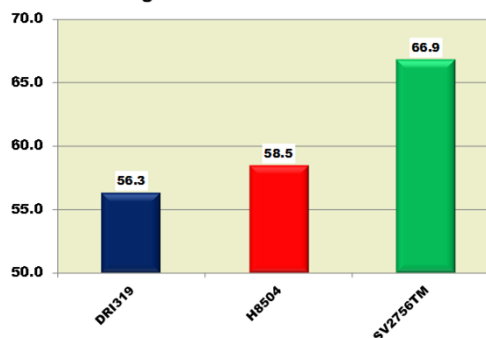
Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
SV2756TM	1,196	5.19	1.00	0.80	24.5	4.39	1.80
H8504	47,515	5.27	0.90	0.90	24.5	4.33	2.20

Variety	2016 9 GT Trials	Average Yield/Ac
SV2756TM	A	51.71
DRI319	A	51.67
H8504	A	49.30

LSD @.05 2.4253

27 Data Points

Average Yield of 12 GT Trials in 2015



2016 Adaptive Trials

3 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
SV2756TM	58.6	5.42	1.22	0.33	24.0	0.56	4.39
H8504	53.1	5.32	1.47	0.22	23.6	0.44	4.30

2016 Block Trial Data

11 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
Field Variety	62.0	5.14	0.73	0.49	23.7	1.60	4.34
SV2756TM	61.7	5.08	1.45	0.85	24.5	1.67	4.41

2016 Season Review



Commercial Variety



SV8011TM

VFFNtsw



Maturity
123 Days

Category
Thick

TSW
Yes

F3
No

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	SV8011TM	H8504
Fruit Wt	77	78	67
Brix	5.81	5.30	5.04
JB	15.46	12.45	12.18
PPB	5.72	3.39	2.82
pH	4.28	4.31	4.26
A/B	2.24	2.29	2.24
Ostwald	371	567	661

2016 Final PTAB Report

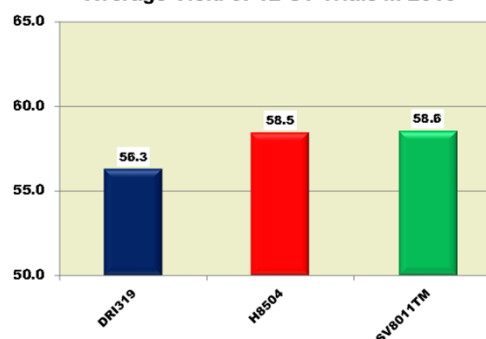
Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
SV8011TM	483	5.25	2.10	1.10	23.9	4.37	0.60
H8504	47,515	5.27	0.90	0.90	24.5	4.33	2.20

Variety	2016 5 GT Trials		Average Yield/Ac
SV8011TM	A		60.35
DRI319	A	B	56.33
H8504		B	53.08

LSD @.05 4.4139

15 Data Points

Average Yield of 12 GT Trials in 2015



2016 Adaptive Trials

2 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
SV8011TM	64.1	5.94	1.94	0.88	24.1	1.94	4.52
H8504	60.0	5.85	1.13	0.78	23.7	1.65	4.42

2016 Season Review

Commercial Variety



H1428

VFFNtsw*



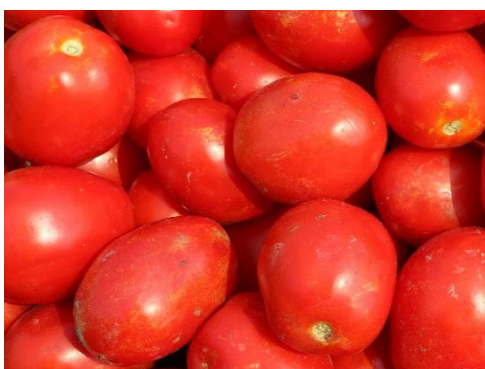
Maturity
128 Days

Category
Thick

TSW
Yes

F3
No

EFS
Yes



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	H1428	H8504
Fruit Wt	77	56	67
Brix	5.81	4.94	5.04
JB	15.46	10.96	12.18
PPB	5.72	2.06	2.82
pH	4.28	4.28	4.26
A/B	2.24	2.32	2.24
Ostwald	371	855	661

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
H1428	7,972	4.94	1.20	0.70	23.8	4.33	2.70
H8504	47,515	5.27	0.90	0.90	24.5	4.33	2.20

Variety	2016 5 GT Trials		Average Yield/Ac
DRI319	A		45.84
H8504	A	B	44.58
H1428		B	42.43

LSD @.05 2.9343

15 Data Points

2016 Block Trial Data

3 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
Field Variety	48.6	4.96	2.47	2.70	24.8	1.96	4.42
H1428	46.9	5.07	0.73	1.07	24.6	1.42	4.39

2016 Adaptive Trials

31 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
H1428	54.4	5.05	1.13	0.47	23.7	2.46	4.34
H8504	54.0	5.20	1.19	0.80	24.6	2.64	4.33

2016 Season Review

Commercial Variety

HM5900

 VFFNtsw


Maturity
118 Days

Category
Thin

TSW
Yes

F3
No

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	N6416	HM5900	BQ273
Fruit Wt	63	66	75
Brix	5.19	5.56	5.36
JB	15.22	14.81	13.60
PPB	4.58	5.00	4.06
pH	4.29	4.24	4.24
A/B	2.30	2.22	2.25
Ostwald	447	379	442

2016 Final PTAB Report

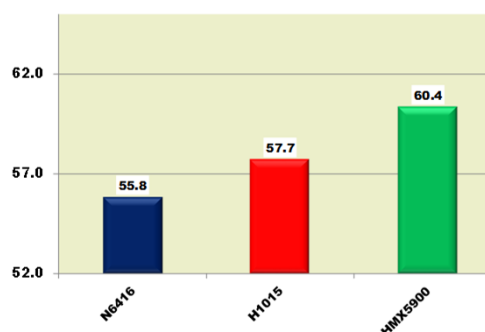
Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
HM5900	639	5.58	0.60	2.90	26.1	4.32	1.90
DRI319	33,478	5.81	1.30	2.10	24.6	4.37	1.30

Variety	2016 6 GT Trials		Average Yield/Ac
HM5900	A		64.44
BQ273		B	60.10
N6416		B	59.17

LSD @.05 2.3848

18 Data Points

Average Yield of 5 GT Trials in 2015



2016 Block Trial Data

9 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
HM5900	57.2	5.60	0.25	2.52	25.3	1.73	4.13
Field Variety	56.8	5.27	0.17	1.33	24.6	1.22	4.33

2016 Season Review

2017 Semi-Commercial Varieties

Variety	Supplier	Category	TSW	F3	EFS	2017 Seed Availability
N6428	Nunhems	Thick	X	X	X	Blocks
N6426	Nunhems	Thick	X		X	Blocks
HM58811	Harris Moran	Thick	X		X	Blocks
HM58841	Harris Moran	Thick	X		X	Blocks
HM58871	Harris Moran	Thick	X		X	Blocks
SV5655TM	Seminis	Thick	X			Blocks
SV2303TM	Seminis	Thick	X			Blocks
BQ400	Woodbridge	Early	X			Blocks
H1538	Heinz	Pear	X			Blocks
BQ402	Woodbridge	Intermediate	X			Blocks
BQ403	Woodbridge	Early	X			Blocks



2016 Season Review



**Variety
Review**



2016

**F3
Varieties**

2016 Season Review

2017 Commercial F3 Varieties

Variety	Supplier	Category	TSW	F3	EFS	2017 Seed Availability
BP16	BHN Seed	Intermediate	X	X		Whole Fields
BQ141	Woodbridge	Thick	X	X		Whole Fields
BP13	BHN Seed	Early	X	X		Whole Fields
H1310	Heinz	Thick	X	X	X	Whole Fields
H1422	Heinz	Thick		X		Whole Fields
SV2493TM	Seminis	Thick	X	X		Whole Fields
BP2	BHN Seed	Thin	X	X		Whole Fields
SV8232TM	Seminis	Intermediate	X	X		Whole Fields
BQ142	Woodbridge	Intermediate	X	X		Whole Fields



2016 Season Review



Commercial F3 Variety



BP16

VFFFNPTsw



Maturity
122 Days

Category
Intermediate

TSW
Yes

F3
Yes

EFS
No



AgSeeds 2016 Lab

35 Locations

Variety	DRI319	BP16	H8504
Fruit Wt	77	78	67
Brix	5.81	5.41	5.04
JB	15.46	14.63	12.18
PPB	5.72	4.66	2.82
pH	4.28	4.36	4.26
A/B	2.24	2.24	2.24
Ostwald	371	389	661

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
BP16	395	5.35	2.30	1.50	25.6	4.46	3.70
BQ141	4,278	4.99	2.10	3.60	24.5	4.42	4.30

2015 Adaptive Trials

11 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
BP16	53.1	5.27	2.30	0.50	25.2	4.00	4.35
CXD282	48.6	4.79	3.60	1.00	23.9	1.60	4.38

2015 Adaptive

BP16	Adaptive Head to Head	CXD282
8	North 10	2
1	Central 1	0
9	Total 11	2

2016 Season Review

Commercial F3 Variety

BQ141 VFFFN_Pt_{sw}

Woodbridge

Maturity
118 Days

Category
Thick

TSW
Yes

F3
Yes

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	BQ141	H8504
Fruit Wt	77	73	67
Brix	5.81	5.05	5.04
JB	15.46	13.27	12.18
PPB	5.72	3.39	2.82
pH	4.28	4.37	4.26
A/B	2.24	2.28	2.24
Ostwald	371	354	661

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
BQ141	4,278	4.99	2.10	3.60	24.5	4.42	4.30
H8504	47,515	5.27	0.90	0.90	24.5	4.33	2.20
DRI319	33,478	5.81	1.30	2.10	24.6	4.37	1.30

2016 Adaptive Trials

10 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
N6428	57.9	5.08	2.20	1.11	26.3	1.76	4.39
BQ141	54.3	5.10	2.71	3.52	24.3	2.24	4.46

2016 Season Review

Commercial F3 Variety

BP13 VFFFNPTsw



Maturity
115 Days

Category
Early

TSW
Yes

F3
Yes

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	N6416	BP13	BQ273
Fruit Wt	63	68	75
Brix	5.19	5.08	5.36
JB	15.22	14.36	13.60
PPB	4.58	3.98	4.06
pH	4.29	4.32	4.24
A/B	2.30	2.27	2.25
Ostwald	447	341	442

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
BP13	3,038	4.86	0.40	1.80	27.4	4.39	3.50
N6416	16,810	5.10	0.30	1.60	24.9	4.31	1.80
BQ273	14,900	5.41	0.50	1.50	24.9	4.34	2.30

Variety	2016 6 GT Trials		Average Yield/Ac
BP13	A		62.35
BQ273	A	B	60.10
N6416		B	59.17

LSD @.05 2.4371

18 Data Points

2015 Adaptive Trials

3 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
BP13	61.1	4.85	0.30	2.20	26.3	1.90	4.36
H1015	60.1	5.08	0.20	0.70	24.7	1.00	4.42
N6416	57.1	4.67	0.50	1.40	25.5	1.00	4.33

2016 Season Review

Commercial F3 Variety

H1310

VFFFNPTsw*



Maturity
128 Days

Category
Thick

TSW
Yes

F3
Yes

EFS
Yes



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	H1310	H8504
Fruit Wt	77	70	67
Brix	5.81	5.05	5.04
JB	15.46	12.44	12.18
PPB	5.72	2.98	2.82
pH	4.28	4.38	4.26
A/B	2.24	2.31	2.24
Ostwald	371	633	661

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
H1310	2,194	5.29	1.60	0.90	24.5	4.40	2.60
BQ141	4,278	4.99	2.10	3.60	24.5	4.42	4.30

2014 Adaptive Trials

7 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
H1310	50.8	2.02	1.96	0.95	24.2	4.87	4.40
CXD282	45.8	3.17	1.90	1.00	24.0	4.80	4.39

2016 Season Review

Commercial F3 Variety

H1422

VFFFFNP



Maturity
125 Days

Category
Thick

TSW
No

F3
Yes

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	H1422	H8504
Fruit Wt	77	70	67
Brix	5.81	5.15	5.04
JB	15.46	12.15	12.18
PPB	5.72	2.98	2.82
pH	4.28	4.34	4.26
A/B	2.24	2.33	2.24
Ostwald	371	565	661

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
H1422	662	5.64	1.20	1.20	24.8	4.37	0.80
BQ141	4,278	4.99	2.10	3.60	24.5	4.42	4.30

2015 Adaptive Trials

11 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
H1422	52.4	5.26	1.20	1.10	25.5	1.70	4.33
CXD282	48.6	4.79	3.60	1.00	23.9	1.60	4.38

2016 Season Review

Commercial F3 Variety

SV2493TM

VFFFNptsw



Maturity
122 Days

Category
Thick

TSW
Yes

F3
Yes

EFS
No



AgSeeds 2016 Lab

36 Locations

Variety	DRI319	SV2493TM	H8504
Fruit Wt	77	74	67
Brix	5.81	5.34	5.04
JB	15.46	12.38	12.18
PPB	5.72	3.43	2.82
pH	4.28	4.35	4.26
A/B	2.24	2.25	2.24
Ostwald	371	508	661

2016 Final PTAB Report

Variety	# of Loads	Solids	Mold	LU	Color	pH	Green
SV2493TM	1,010	5.43	2.30	2.40	24.2	4.42	1.40
BQ141	4,278	4.99	2.10	3.60	24.5	4.42	4.30

2015 Adaptive Trials

6 Locations

Variety	Tons/Ac	Solids	Mold	Lim	Comm	Green	pH
CXD282	47.1	5.03	5.50	1.50	23.8	2.10	4.41
SV2493TM	46.2	5.23	4.00	3.00	24.0	2.70	4.40

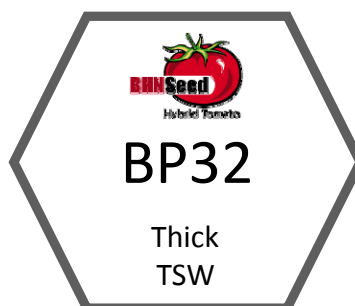
2016 Season Review

2017 Semi-Commercial F3 Varieties

Variety	Supplier	Category	TSW	F3	EFS	2017 Seed Availability
N6428	Nunhems	Thick	X	X	X	Blocks
BP32	BHN Seed	Thick	X	X	X	Blocks
HM61P5235	Harris Moran	Thick	X	X		Blocks
BP25	BHN Seed	Thick	X	X		Blocks
BP26	BHN Seed	Thick	X	X		Blocks
HM58801	Harris Moran	Thick	X	X	X	Blocks
N6429	Nunhems	Intermediate	X	X	X	Blocks



2017 Semi F3 Featured Varieties



2016 Season Review

F3 Variety Harvest Guidelines Commercial Varieties

	July		August		September	
	1st to 15th	15th to 31st	1st to 15th	15th to 31st	1st to 15th	15th to 31st
BP16						
BQ141						
BP13						
H1310						
H1422						
BP2						
SV2493TM						
SV8232TM						
BQ142						



F3 Variety Harvest Guidelines Semi-Commercial Varieties

	July		August		September	
	1st to 15th	15th to 31st	1st to 15th	15th to 31st	1st to 15th	15th to 31st
N6428						
BP32						
BP25						
HM61P5235						
BP26						
HM58801						
N6429						

2016 Season Review



Variety Review



2016

2017 Adaptive Varieties



2016 Season Review

2017 Adaptive Varieties

Variety	Supplier	Category	TSW	F3	EFS	2017 Seed Availability
SVTM2828	Seminis	Early	X			Trials
SVTM7791	Seminis	Thick	X			Trials
N6436	Nunhems	Early	X			Trials
HMX58881	Harris Moran	Early	X			Trials
HMX61P4521	Harris Moran	Thick	X		X	Trials
HMX61P5522	Harris Moran	Thin	X			Trials
HMX61P4326	Harris Moran	Intermediate	X			Trials
HMX61P5293	Harris Moran	Thin	X			Trials



2017 Adaptive F3 Varieties

Variety	Supplier	Category	TSW	F3	EFS	2017 Seed Availability
H1662	Heinz	Thick	X	X		Trials
N6434	Nunhems	Intermediate	X	X	X	Trials
SVTM1082	Seminis	Intermediate	X	X		Trials
BP29	BHN	Thick	X	X		Trials
BP34	BHN	Thick	X	X		Trials
BP36	BHN	Thick	X	X	X	Trials