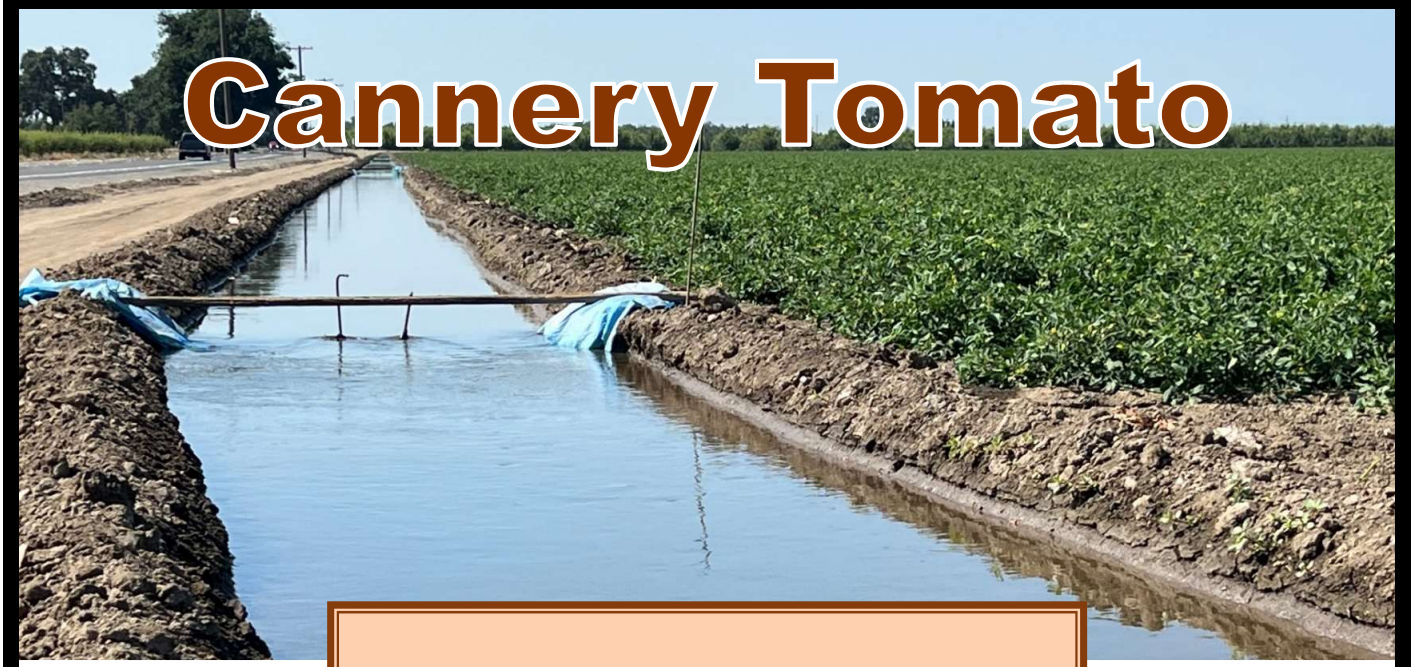


Cannery Tomato

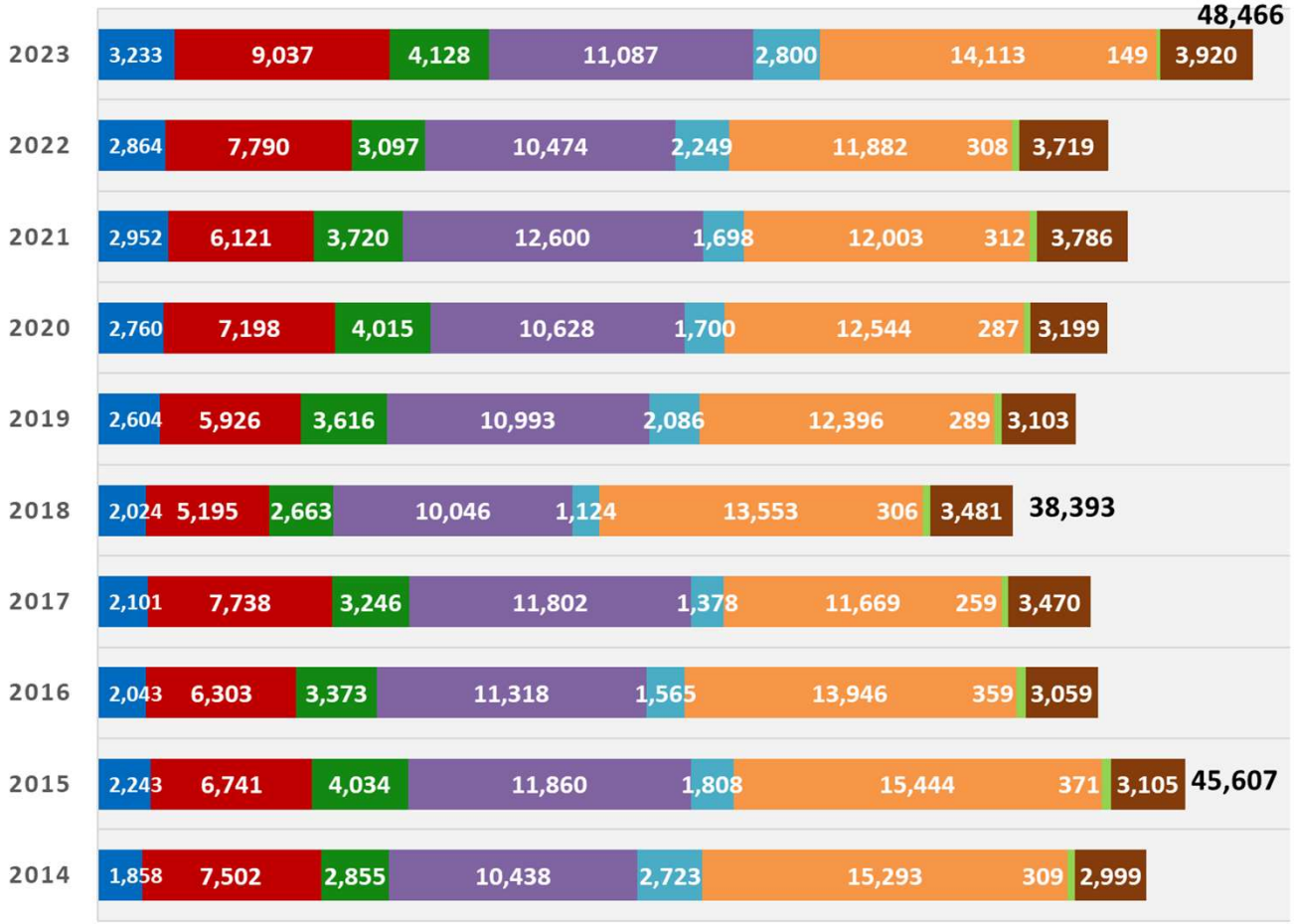
2023



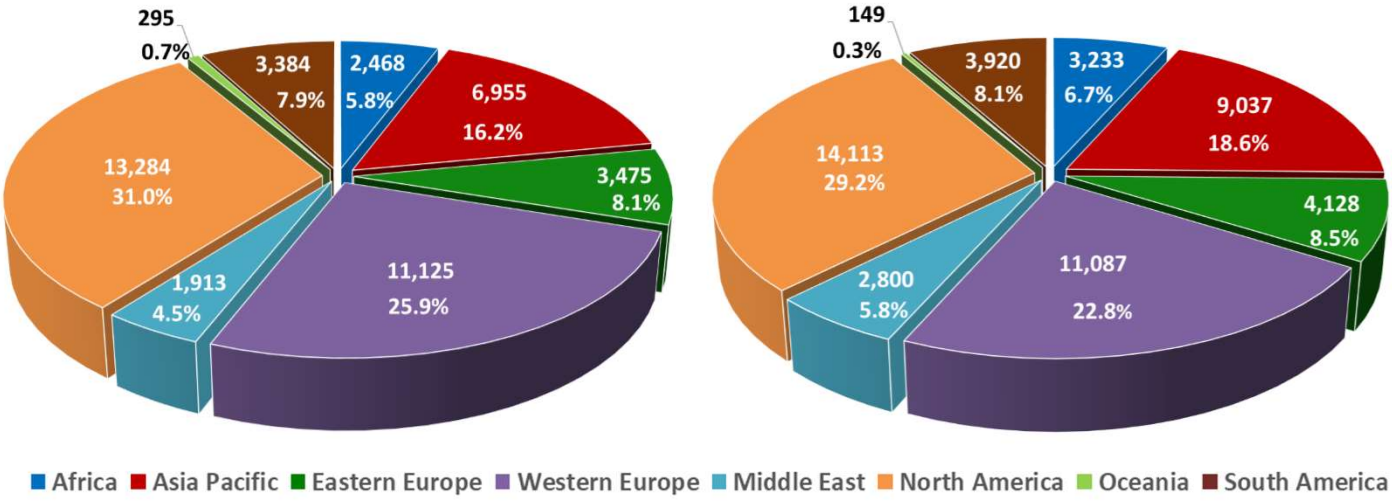
Season Highlights

World Production History

Short Tons by Region – 2014-2023

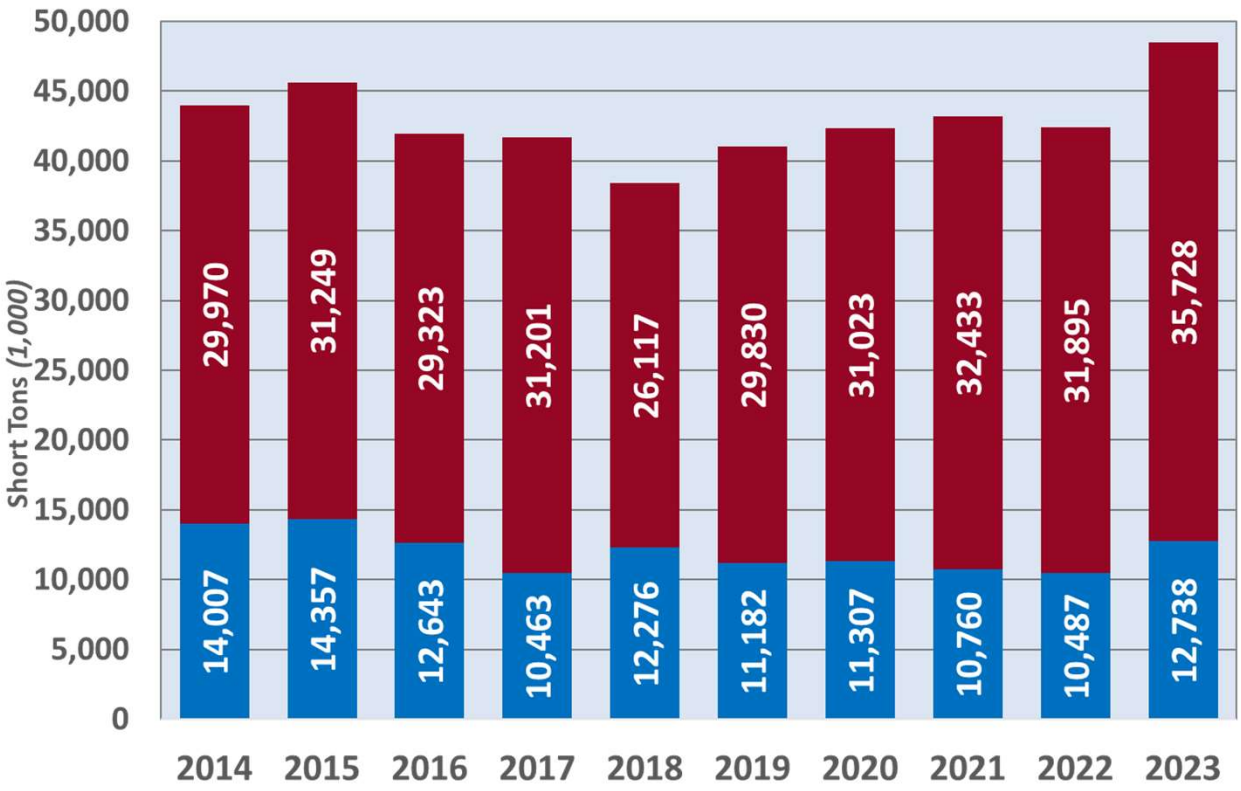


10 Year Average	2023
42,899	48,466



California vs World Production

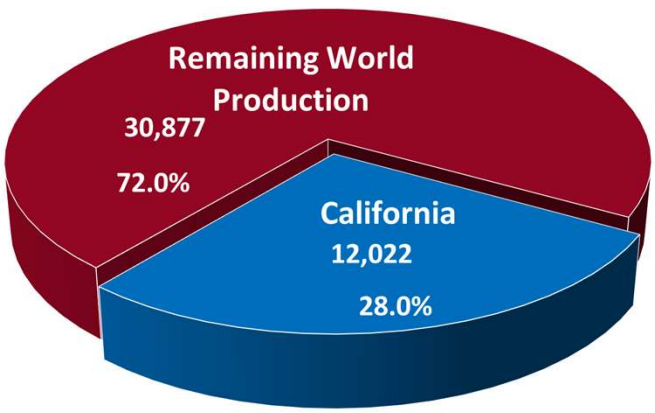
Short Tons – 2014-2023

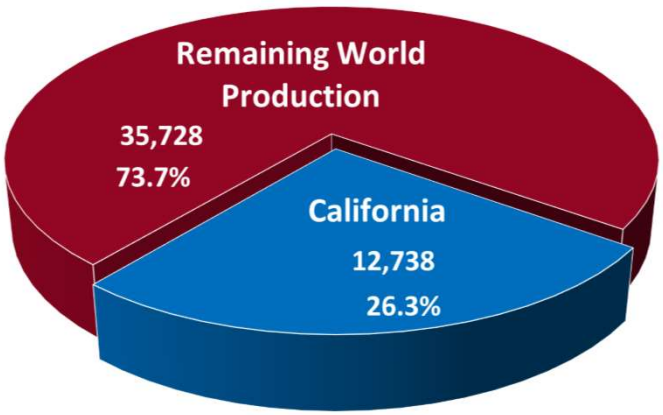


California vs World Production

Short Tons by Region – 10 Year Avg vs 2023

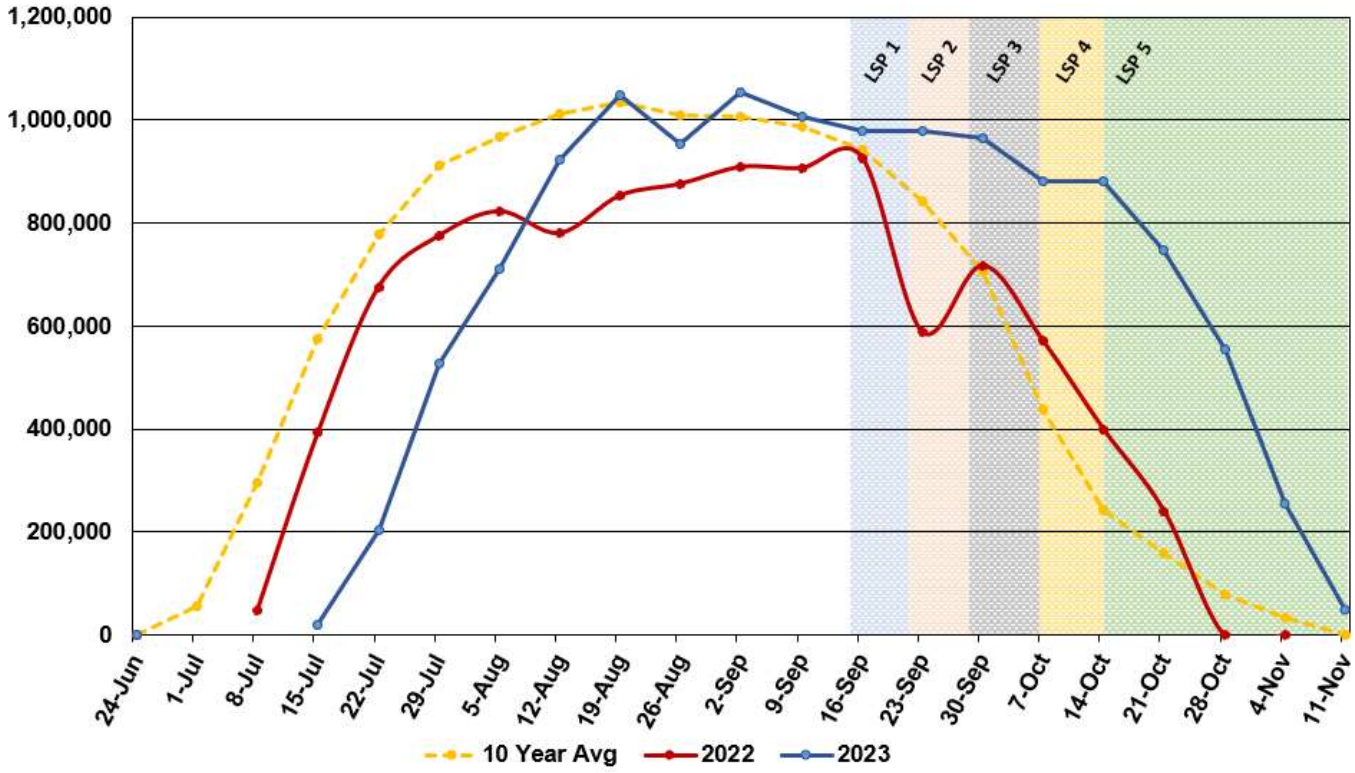
10 Year Average	2023
42,899	48,466





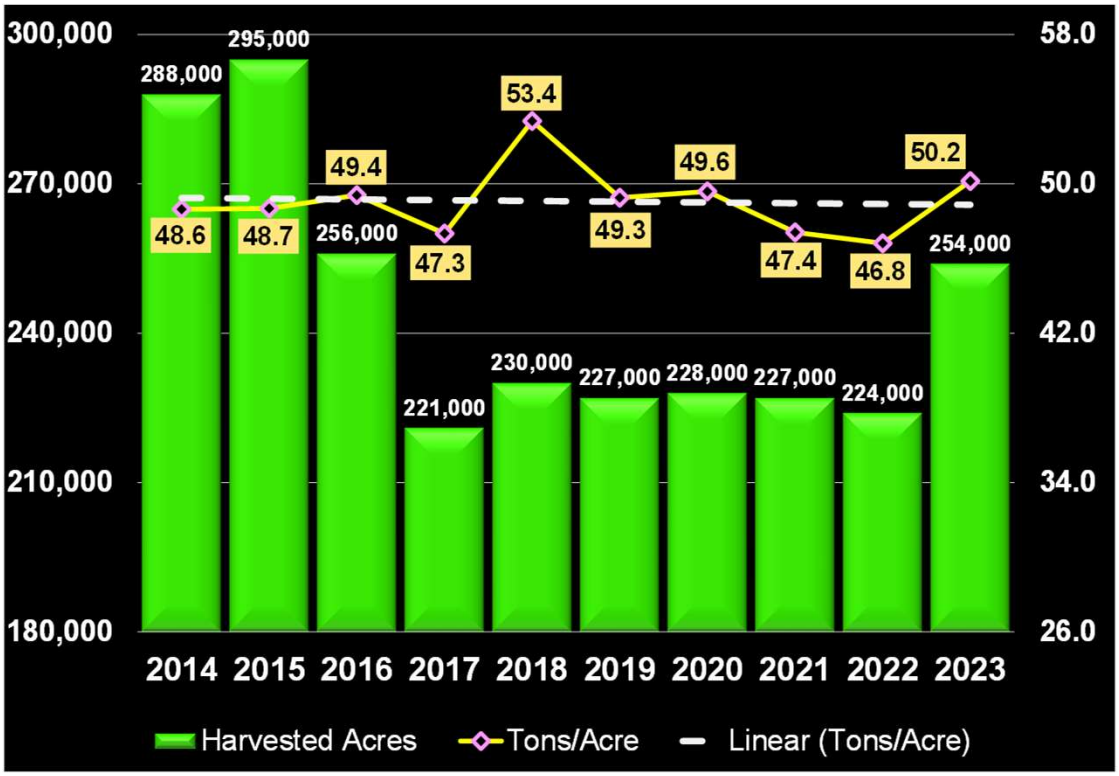
California Cannery Tomato Harvest

Tons per Week – 2022, 2023, & 10 Year Average



California Cannery Tomato Harvest

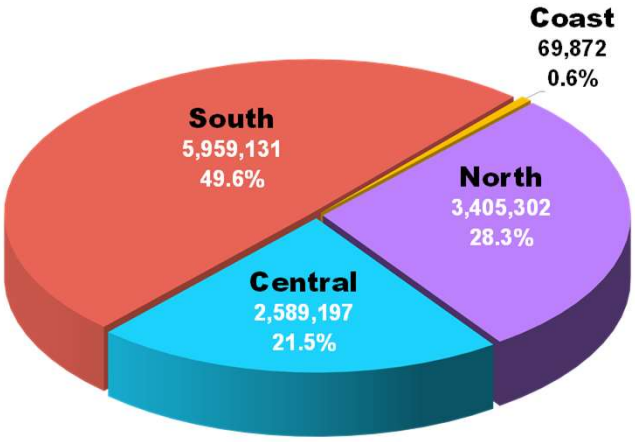
Harvested Acres & Yield (Tons/Acre): 2014-2023



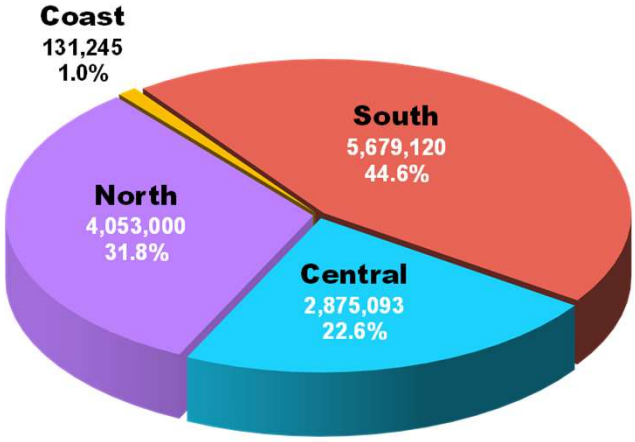
California Production

Short Tons by Region – 10 Year Avg vs 2023

10 Year Average
Short Tons 12,023,502



2023
Short Tons 12,738,458



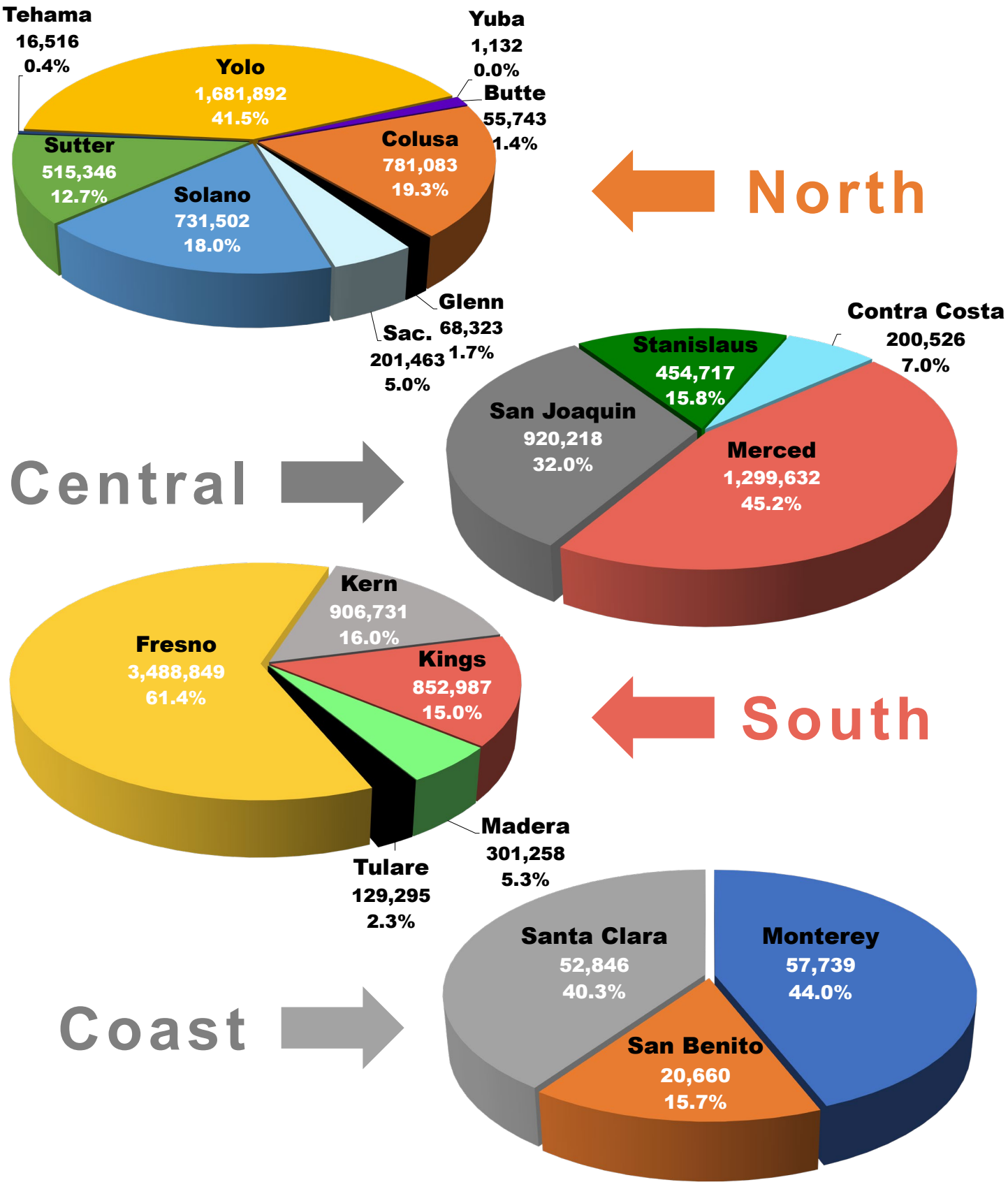
Class Total Pack Timeline

21-Day Harvest Intervals

Class	22-Jul	12-Aug	2-Sep	23-Sep	Loads
Early	11.7%	74.4%	97.2%	97.9%	63,444
Thin	0.3%	16.9%	47.6%	76.7%	41,842
Inter	0.1%	10.1%	35.3%	62.1%	214,410
Thick	0.4%	6.7%	25.2%	52.0%	178,953
Pear	0.0%	19.6%	51.5%	79.3%	14,789
Total Pack	1.6%	17.7%	40.9%	64.7%	514,903

Regional Production

North, Central, South & Coast Tons



Regional Production

2 Year Tons by Region

County	2022	2023	2022	2023
North	**Short Tons**		**Marketshare %**	
Butte	45,865	55,743	1.4%	1.4%
Colusa	622,631	781,083	19.5%	19.3%
Glenn	31,461	68,323	1.0%	1.7%
Sacramento	126,564	201,463	4.0%	5.0%
Solano	438,945	731,502	13.7%	18.0%
Sutter	374,742	515,346	11.7%	12.7%
Tehama	11,083	16,516	0.3%	0.4%
Yolo	1,543,106	1,681,892	48.3%	41.5%
Yuba	-	1,132	-	0.0%
Total	3,194,397	4,053,000	30.5%	31.8%
Coast	**Short Tons**		**Marketshare %**	
Monterey	44,069	57,739	32.6%	44.0%
San Benito	24,998	20,660	18.5%	15.7%
Santa Clara	66,225	52,846	48.9%	40.3%
Total	135,292	131,245	1.3%	1.0%
Central	**Short Tons**		**Marketshare %**	
Contra Costa	172,706	200,526	7.1%	7.0%
Merced	1,085,926	1,299,632	44.4%	45.2%
San Joaquin	787,027	920,218	32.2%	32.0%
Stanislaus	398,750	454,717	16.3%	15.8%
Total	2,444,409	2,875,093	23.3%	22.6%
South	**Short Tons**		**Marketshare %**	
Fresno	2,363,226	3,488,849	50.1%	61.4%
Kern	559,503	906,731	11.9%	16.0%
Kings	1,528,446	852,987	32.4%	15.0%
Madera	190,572	301,258	4.0%	5.3%
Tulare	71,552	129,295	1.5%	2.3%
Total	4,713,299	5,679,120	44.9%	44.6%
Statewide	10,487,397	12,738,458	100.0%	100.0%

Region Production

PTAB Grades - 13 Counties > 5,000 Loads

Top 5

County	BRIX
Contra Costa	5.41
Solano	5.29
Kings	5.28
Kern	5.25
Fresno	5.21



Top 5

County	Mold
Contra Costa	1.10
Solano	1.66
Sacramento	1.69
San Joaquin	2.00
Yolo	2.05



Top 5

County	LU
Solano	0.75
Sacramento	0.76
Madera	0.81
San Joaquin	0.83
Stanislaus	0.83



Top 5

County	Color
Contra Costa	18.91
Kings	19.17
Fresno	19.37
Kern	19.49
Colusa	19.50



Top 5

County	pH
Yolo	4.396
Contra Costa	4.411
Solano	4.416
Sutter	4.421
Kern	4.428

AgSeeds Unlimited

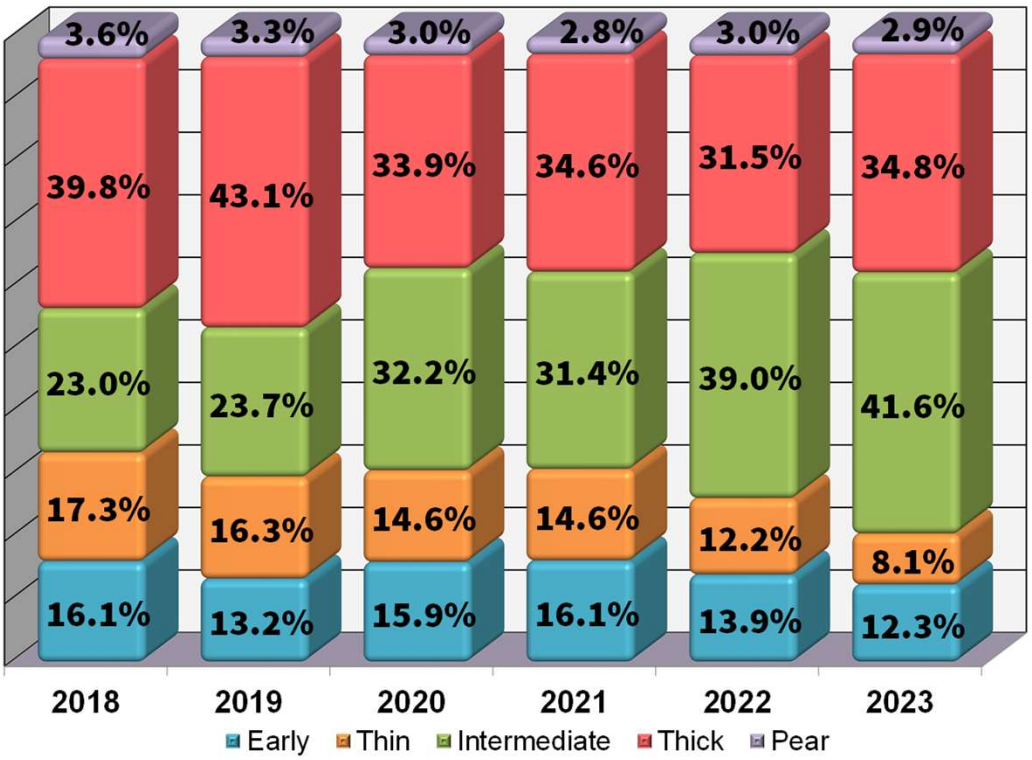
Use Category Descriptions

Early	• Maturity ≤ 117 Days
Thin	• PPB ≥ 4.60
Inter	• PPB 2.91 – 4.59
Thick	• PPB ≤ 2.90
Pear	• Pear Shaped

*PPB – Predicted Paste Bostwick

Historical Use Market Share

By Class: 2018-2023



HM8163

SVTM9016
SVTM9023
H1996
H2016

HM8237
HM58841
SVTM9013
HM5522

SVTM9019
SVTM1082
BP74

HM7103
SVTM9027
SVTM9032

Use Market Share

By Region

Class	North	Central	South	Coast	Total
Early	7.9%	2.6%	20.6%	9.3%	12.3%
Thin	3.9%	15.3%	7.6%	8.9%	8.1%
Inter	52.6%	37.5%	35.6%	41.7%	41.6%
Thick	33.7%	41.8%	31.8%	40.2%	34.8%
Pear	1.4%	2.7%	4.1%	-	2.9%
F3	80.7%	80.4%	54.4%	96.7%	69.3%
EFS™ / EFH	67.9%	59.8%	52.2%	60.4%	59.2%
Loads	168,737	114,755	226,156	5,255	514,903

Supplier Historical Market Share

2019 – 2023

Supplier	2019	2020	2021	2022	2023	Varieties
Seminis	25.0%	25.2%	28.0%	27.9%	33.0%	29
Harris Moran	12.3%	16.2%	18.1%	26.5%	32.6%	19
Heinz	31.6%	20.9%	19.6%	16.5%	16.0%	25
Nunhems	15.0%	15.9%	13.8%	12.8%	9.5%	14
BHN	0.7%	1.9%	4.7%	4.2%	2.8%	13
Syngenta	11.1%	12.7%	10.1%	6.4%	2.7%	3
Orsetti	1.3%	3.4%	3.1%	3.3%	2.1%	6
United Genetics	2.6%	3.0%	1.8%	1.8%	0.8%	2
Others	0.4%	0.8%	0.8%	0.6%	0.6%	9
Loads	442,500	442,120	429,950	418,842	514,903	

Supplier Market Share

By Region

Supplier	North	Central	South	Coast	Total
Seminis	27.8%	44.9%	30.0%	70.1%	33.0%
Harris Moran	34.3%	22.7%	37.0%	1.6%	32.6%
Heinz	20.1%	14.7%	13.7%	14.4%	16.0%
Nunhems	14.2%	5.9%	7.7%	11.4%	9.5%
BHN	2.1%	7.4%	1.1%	-	2.8%
Syngenta	0.2%	0.1%	5.8%	-	2.7%
Orsetti	0.8%	2.9%	2.6%	2.4%	2.1%
United Genetics	-	1.1%	1.2%	-	0.8%
Others	0.5%	0.3%	0.8%	0.0%	0.6%
Loads	168,737	114,755	226,156	5,255	514,903

Supplier Market Share

By Class

Supplier	Early	Viscosity			Pear	F3	EFS™ EFH	Total
		Thin	Inter	Thick				
Seminis	31.2%	55.8%	17.9%	49.5%	0.0%	47.2%	32.8%	33.0%
Harris Moran	35.9%	7.0%	62.5%	-	53.8%	17.5%	35.8%	32.6%
Heinz	1.5%	0.0%	4.4%	40.0%	2.8%	19.0%	14.3%	16.0%
Nunhems	5.9%	15.3%	13.9%	3.9%	13.0%	11.4%	13.0%	9.5%
BHN	1.5%	21.2%	0.1%	0.0%	30.4%	4.1%	0.0%	2.8%
Syngenta	21.6%	-	-	-	-	-	-	2.7%
Orsetti	0.3%	-	0.7%	5.0%	-	0.6%	2.8%	2.1%
United Genetics	-	-	0.5%	1.5%	-	0.3%	1.3%	0.8%
Others	2.2%	0.7%	0.0%	0.0%	0.0%	0.1%	0.0%	0.6%
Loads	63,444	41,842	214,410	178,953	14,789	356,657	304,573	514,903

2023 vs 2014 PTAB Top 15 Varieties

Loads Movement from Previous Year

2023

Rank	Variety	Loads	▲ 2022	Age
1	HM8237	41,053	1203.7%	2
2	SVTM9016	36,801	64.5%	4
3	SVTM9023	35,101	292.5%	3
4	HM58841	31,292	-7.1%	7
5	SVTM9013	27,491	16.1%	4
6	H1996	26,889	176.9%	3
7	HM5522	25,701	12.3%	5
8	N6428	22,580	-22.5%	7
9	HM7103	20,900	140.1%	3
10	H2016	15,439	666.6%	2
11	HM4521	15,429	65.3%	6
12	HM8268	15,012	275.7%	2
13	SVTM9019	11,335	316.0%	3
14	SVTM9027	10,009	17.6%	2
15	H1662	9,773	-38.6%	6
	Total	344,805	256.9%	3.9

2014

Rank	Variety	Loads	▲ 2013	Age
1	H8504	77,738	18.8%	9
2	H5608	56,101	55.5%	5
3	N6366	45,708	-19.9%	10
4	H2401	28,800	25.2%	12
5	DRI319	27,921	124.4%	3
6	N6404	23,012	39.7%	3
7	H5508	21,403	24.8%	5
8	AB0311	18,935	100.0%	3
9	UG19406	17,365	52.1%	4
10	N6397	16,781	590.0%	3
11	N6402	14,998	92.9%	2
12	H4707	13,858	21.8%	6
13	H1015	12,880	-5.6%	3
14	HM1892	12,507	560.3%	1
15	HM9905	10,338	208.0%	3
	Total	398,345	82.3%	4.8

Final PTAB Report

PTAB Variety Movement

Change from 2022

Highest Increase

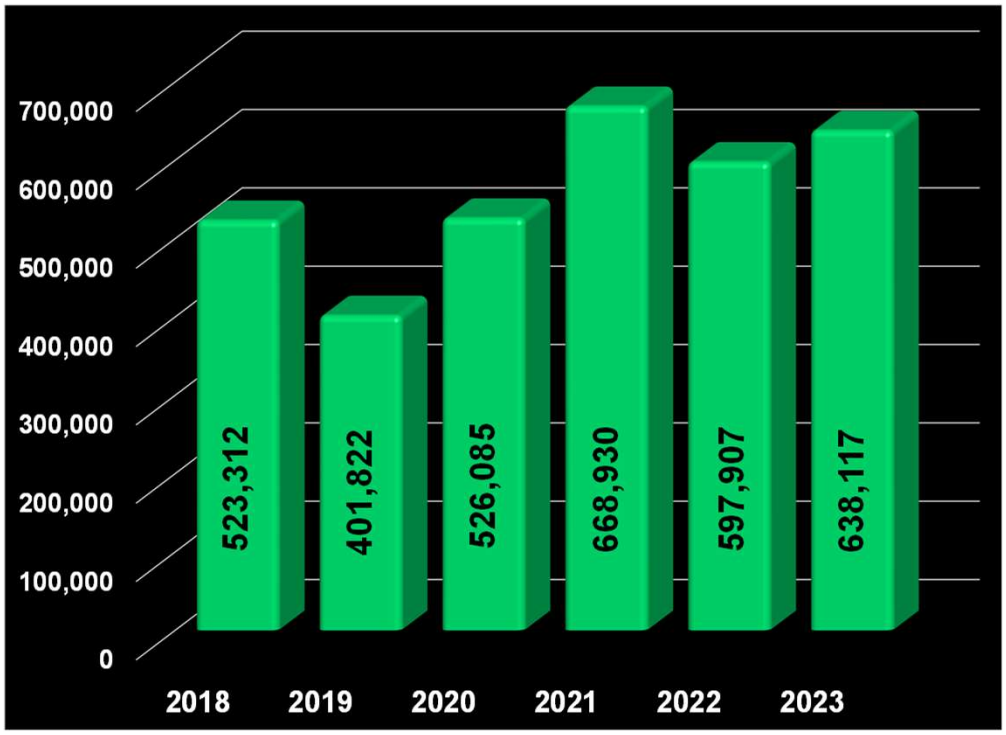
Rank	Variety	Loads	▲ 2022	Age
1	HM8237	37,904	1203.7%	2
2	SVTM9023	26,157	292.5%	3
3	H1996	17,178	176.9%	3
4	SVTM9016	14,431	64.5%	4
5	H2016	13,425	666.6%	2
6	HM7103	12,194	140.1%	3
7	HM8268	11,016	275.7%	2
8	SVTM9019	8,610	316.0%	3
9	HM4521	6,096	65.3%	6
10	SVTM9032	4,971	177.9%	2
11	SVTM9037	4,446	1145.9%	1
12	SVTM9013	3,811	16.1%	4
13	H2010	3,512	233.5%	2
14	SVTM9021	3,166	66.8%	3
15	H2012	3,079	214.6%	2
	Total	169,996	481.1%	2.8

Highest Decrease

Rank	Variety	Loads	▲ 2022	Age
1	SVTM9014	-8,173	-90.2%	4
2	N6428	-6,557	-22.5%	7
3	H1662	-6,155	-38.6%	6
4	H4707	-5,717	-67.9%	15
5	BQ273	-5,387	-56.2%	9
6	BQ403	-4,784	-57.0%	7
7	H1776	-4,505	-98.1%	5
8	HM5511	-4,416	-60.3%	3
9	H2015	-4,067	-71.7%	2
10	N6402	-3,595	-73.7%	12
11	BP43	-3,562	-72.3%	6
12	SVTM9008	-3,185	-92.3%	5
13	SVTM9011	-3,033	-83.5%	4
14	BOS811	-2,789	-24.5%	6
15	UG29814	-2,655	-70.0%	4
	Total	-68,580	-64.3%	6.3

California Organic Production

Historical Organic Tons: 2018 – 2023



2 Year Top 15 Organic Varieties

% Organic Loads & Loads Change from Previous Year

2023

Variety	Loads	% Organic	▲ 2022
SVTM9023	2,609	7.4%	1,897
H1996	1,887	7.0%	1,555
CXD187	1,848	100.0%	642
BQ400	1,726	29.4%	-734
H5608	1,596	19.0%	-634
SVTM9013	1,555	5.7%	-1,523
HM8237	1,376	3.4%	1,216
HM5522	1,145	4.5%	170
SVTM9016	960	2.6%	-400
HM7103	927	4.4%	806
HM58841	866	2.8%	276
HM4521	849	5.5%	337
E247	842	69.2%	842
N6416	794	27.2%	149
SVTM9033	764	73.1%	764
Total	19,744	23.6%	358

2022

Variety	Loads	% Organic	▲ 2021
SVTM9013	3,078	13.0%	1,071
BQ400	2,460	30.0%	-465
H5608	2,230	20.8%	737
BQ273	1,696	17.7%	494
BOS811	1,591	14.0%	168
SVTM9016	1,360	6.1%	871
CXD187	1,206	70.3%	-1,955
SVTM9014	1,155	12.7%	170
HM5522	975	4.3%	753
BQ403	810	9.6%	-1,204
SVTM9023	712	8.0%	-196
SVTM9025	681	9.8%	28
N6416	645	21.1%	-27
HM58841	590	1.8%	23
HM4521	512	5.5%	361
Total	19,701	18.4%	55

California Organic Production

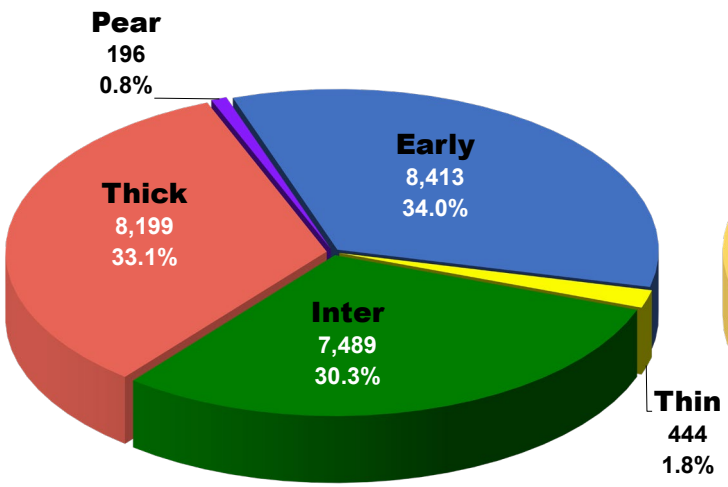
2 Year Tons by Region

County	2022	2023	2022	2023
North	**Short Tons**		**Marketshare %**	
Colusa	-	132	-	0.2%
Solano	-	4,026	-	5.3%
Sutter	27,793	18,944	29.6%	24.8%
Yolo	65,973	53,239	70.4%	69.7%
Total	93,766	76,342	15.7%	12.0%
Coast	**Short Tons**		**Marketshare %**	
Monterey	-	1,503	-	14.9%
San Benito	11,653	6,216	100.0%	61.7%
Santa Clara	-	2,361	-	23.4%
Total	11,653	10,080	1.9%	1.6%
Central	**Short Tons**		**Marketshare %**	
Contra Costa	293	-	0.5%	-
Merced	35,825	38,066	63.2%	56.8%
San Joaquin	13,760	18,682	24.3%	27.9%
Stanislaus	6,787	10,302	12.0%	15.4%
Total	56,665	67,050	9.5%	10.5%
South	**Short Tons**		**Marketshare %**	
Fresno	175,044	219,815	40.2%	45.4%
Kern	170,645	168,828	39.2%	34.8%
Kings	78,837	95,513	18.1%	19.7%
Madera	11,297	-	2.6%	-
Tulare	-	490	-	0.1%
Total	435,824	484,646	72.9%	75.9%
Statewide	597,907	638,117		
Marketshare	5.70%	5.01%		

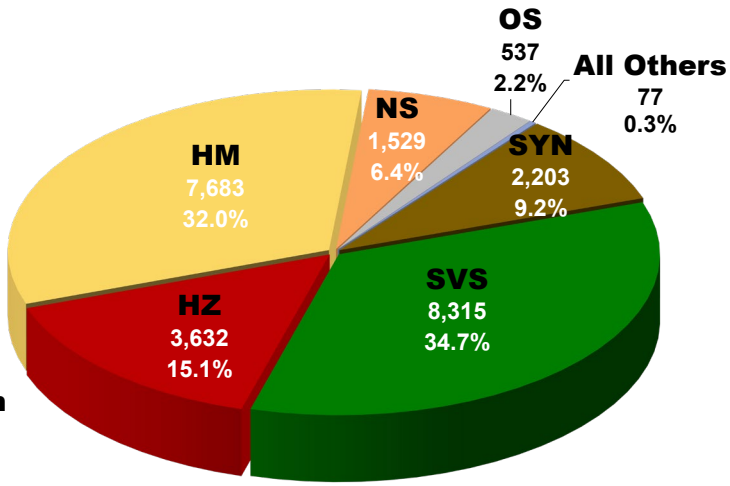
California Organic Production

Class vs Supplier by Organic Loads

Class by Loads



Supplier by Loads

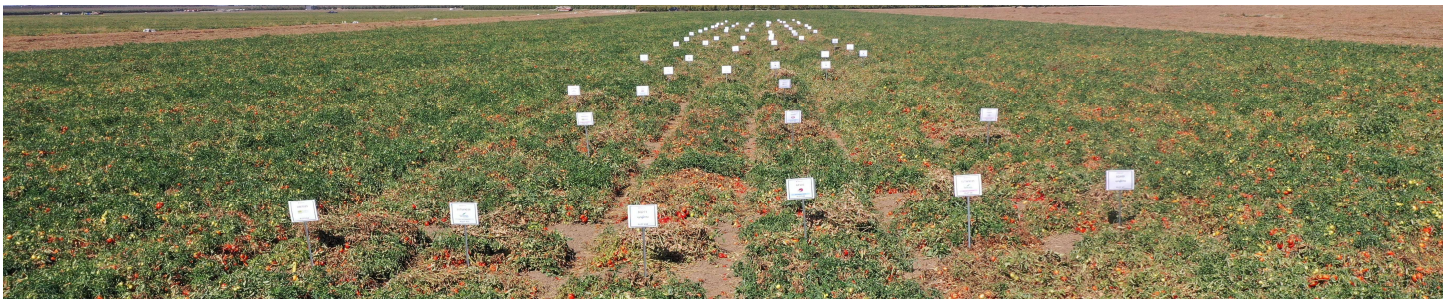


Trial Breakdown

Total 185

Plot: 74 Locations

Chemistry & early indications of horticultural performance



GT: 44 Locations

First true test of yield and commercial viability



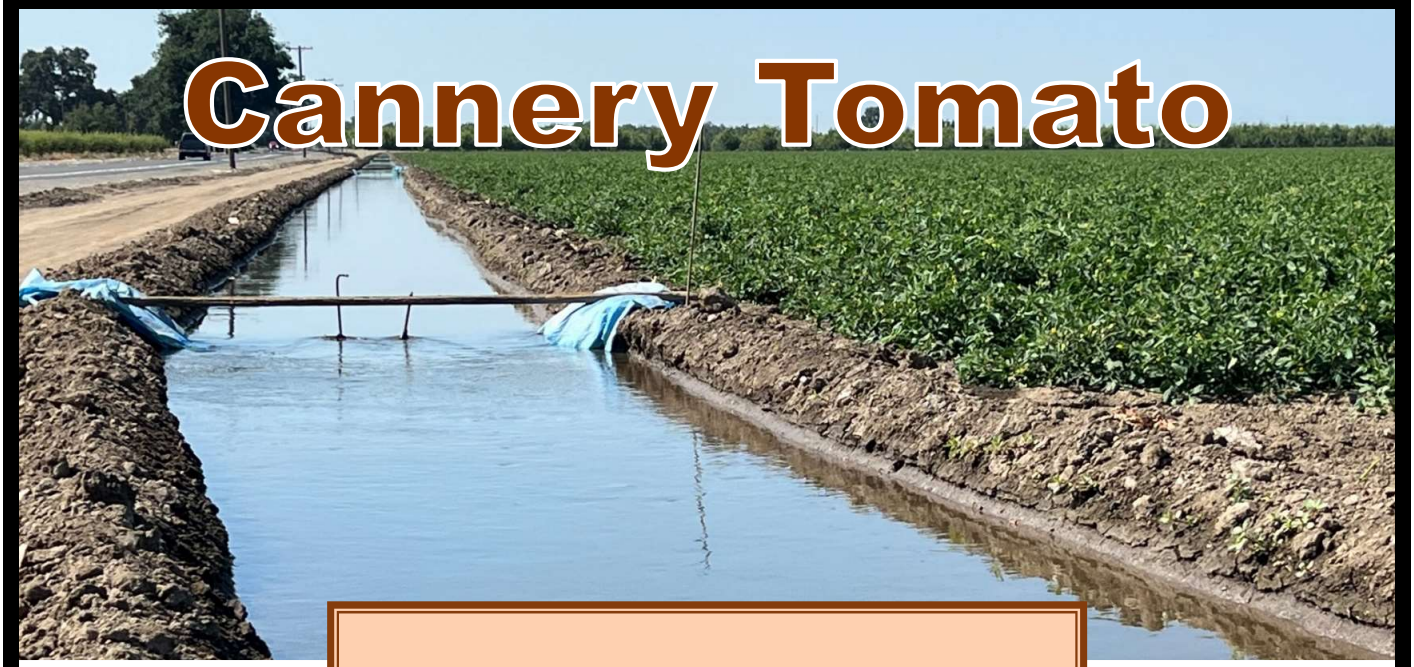
Adaptive: 32 Locations

Confirmation of commercial potential



Specialty: 35 Locations

Testing for chemistry, disease, paste and dice recovery



Cannery Tomato

2023



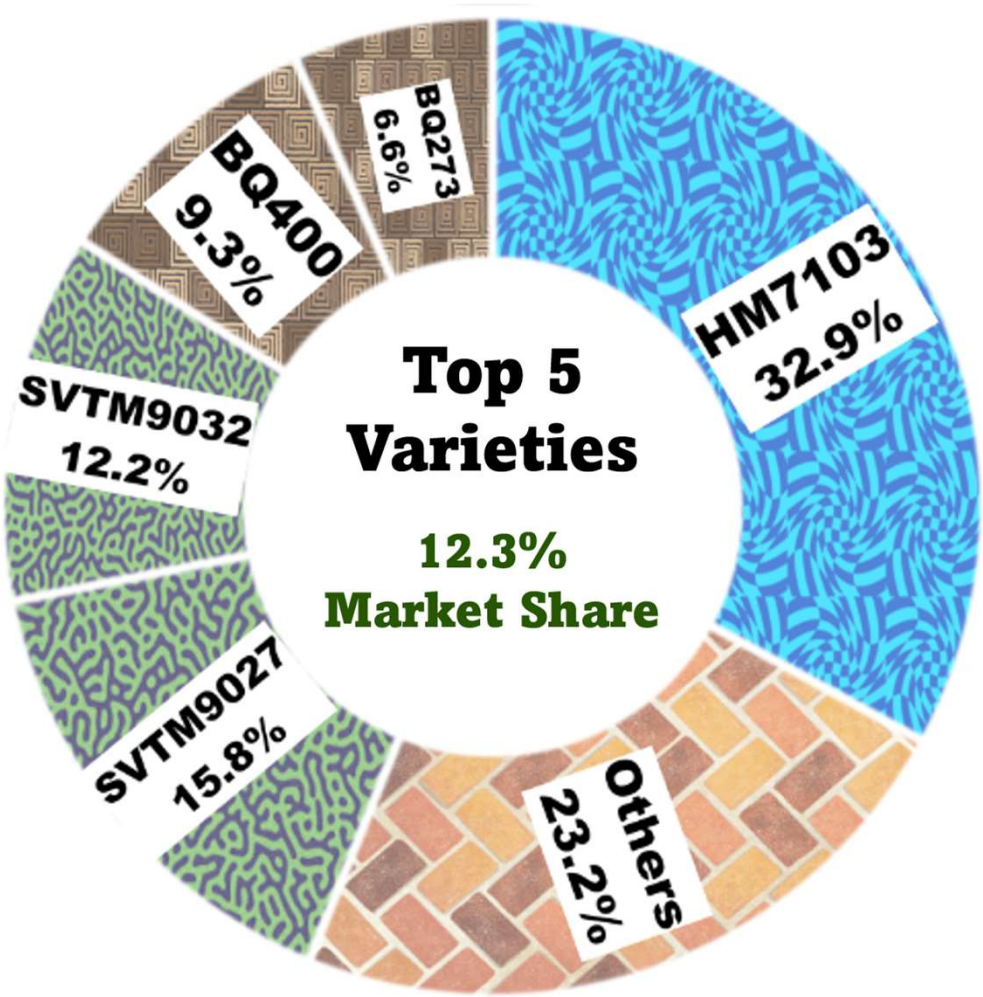
Varieties By Class

Early Varieties

Final PTAB Loads: 63,444

117 Days or Less

Loads Increased	— Vs. 2022 —	Solids Decreased
11.7%		0.17



Early

Harvest by

Aug 10th

HMC0371

Semi-Commercial Variety

Disease

VFFFNtswFrMv

Days: 117

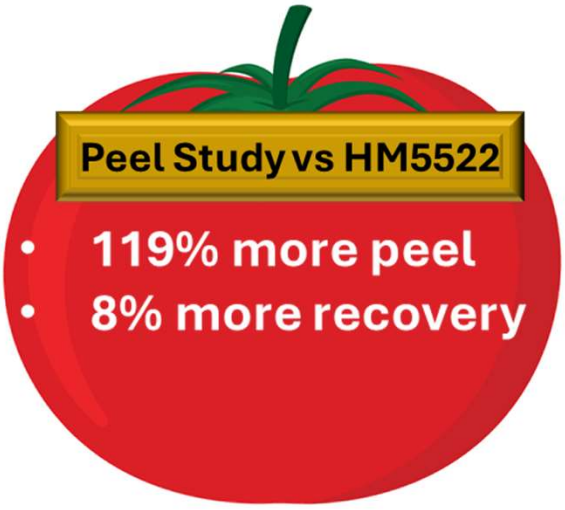
HARRIS MORAN SEED COMPANY

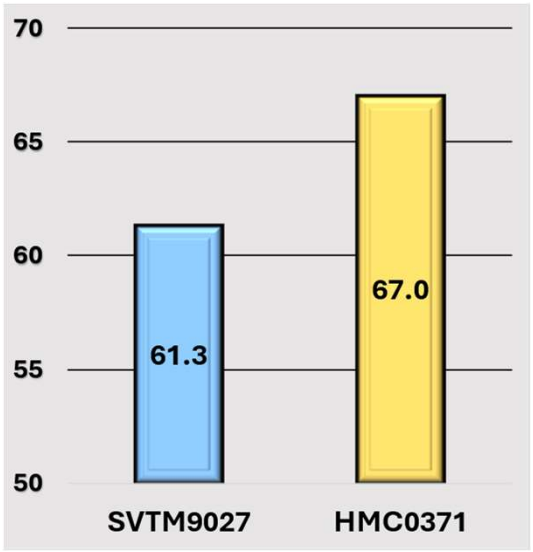
Brix « » Recovery

Limited

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
HMC0371	81	5.55	13.13	4.13	295	2.34
HM7103	73	5.48	15.67	5.28	258	2.23
SVTM9027	86	5.68	14.41	4.99	356	2.22





Yield (Tons per Acre), 12 locations, 2022-2023

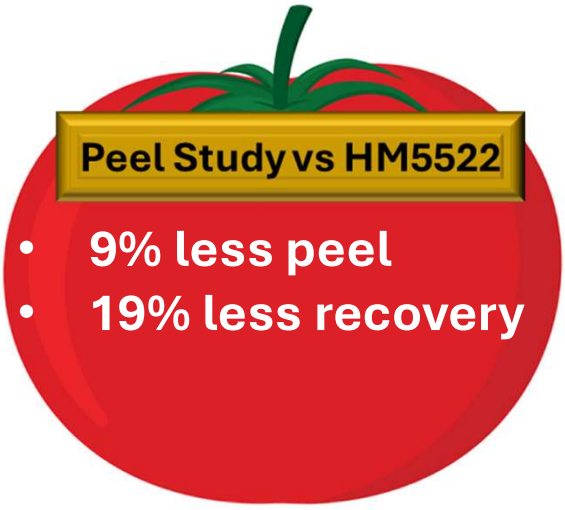
BQ273 SVTM9027 **Class Varieties** SVTM9032 HM7103

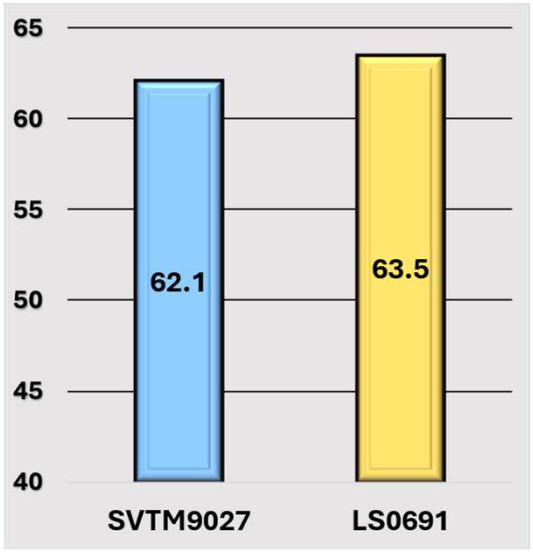
Early		Disease
Harvest by	**LS0691**	VFFFtsw
Aug 10th	Semi-Commercial Variety	Days: 117

Peeler « » Viscosity

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
LS0691	67	5.12	12.99	3.36	368	2.27
HM7103	73	5.48	15.67	5.28	258	2.23
SVTM9027	86	5.68	14.41	4.99	356	2.22





Yield (Tons per Acre), 13 locations, 2022-2023

Early Class

Commercial Varieties

AgSeeds Lab Chemistry

2023: 31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
HM7103	73.2	5.48	15.67	5.28	2.23	257.5	4.27
SVTM9027	86.4	5.68	14.41	4.99	2.22	356.0	4.20
SVTM9032	82.5	5.66	14.19	4.86	2.17	314.2	4.19
BQ400	79.5	5.23	13.32	3.71	2.28	338.3	4.26
SVTM9033	73.4	5.03	11.68	2.56	2.16	468.5	4.23
SVTM9034	85.6	5.76	14.76	5.30	2.24	332.8	4.27
Early	**79.3**	**5.37**	**13.66**	**4.10**	**2.23**	**338.4**	**4.24**

2023 PTAB Grades

Early Class

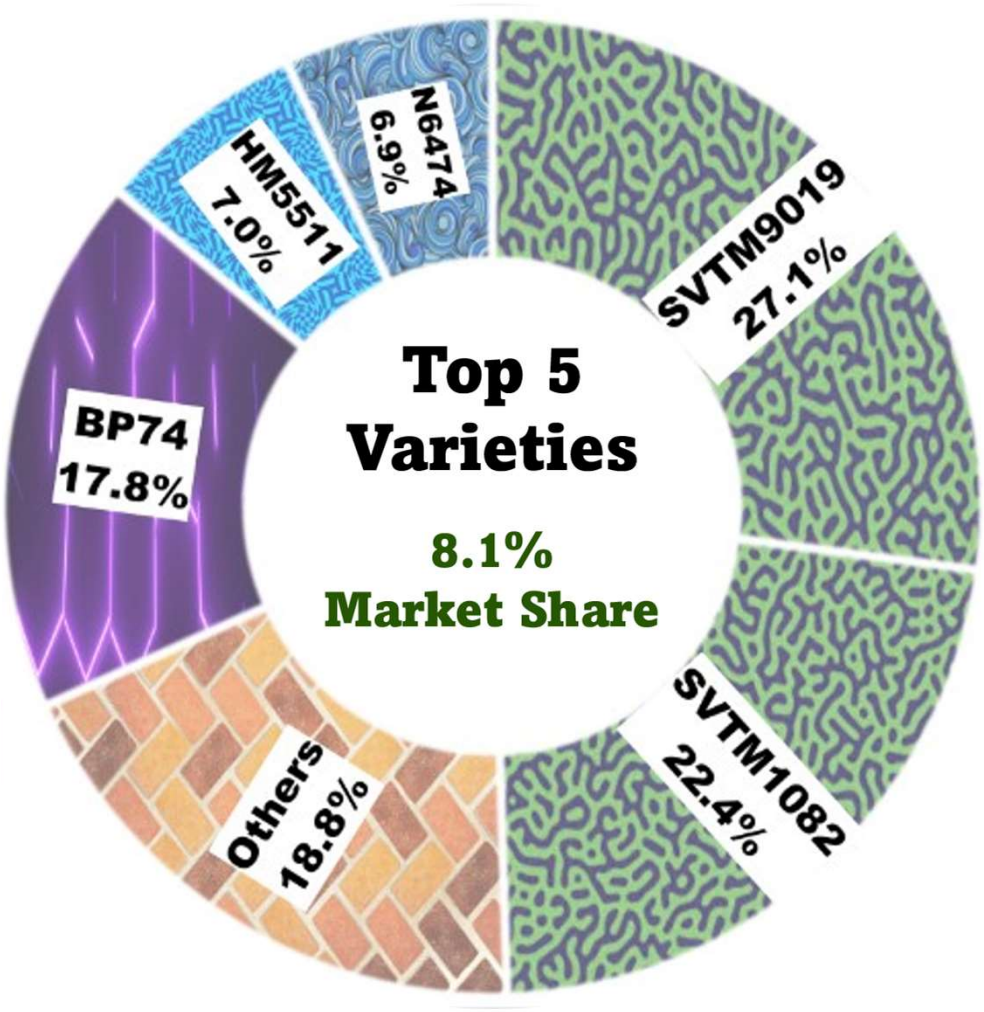
Variety	Attributes	Loads	Brix	Mold	LU	Color	pH
HM7103	EFH	20,900	5.23	0.6	1.5	19.27	4.41
SVTM9027	F3, Lv	10,009	5.47	1.0	1.0	19.15	4.41
SVTM9032	F3, Fr, Lv	7,765	5.33	0.8	1.6	19.87	4.33
BQ400	-	5,870	4.99	0.6	1.0	19.00	4.51
BQ273	-	4,196	5.11	0.8	1.3	20.20	4.38
BQ403	-	3,614	5.22	0.5	2.3	20.39	4.39
SVTM9033	F3	1,045	4.80	0.5	0.4	20.56	4.36
BP13	F3	920	4.96	1.1	2.8	19.36	4.40
SVTM9034	F3	793	5.31	1.0	0.8	19.45	4.43
N6459	F3	714	5.22	3.5	1.2	19.98	4.57
N6397	-	100	5.26	1.4	1.0	19.68	4.49
SVTM9000	Lv	68	4.62	0.1	0.5	20.63	4.41
Early		**63,444**	**5.19**	**0.7**	**1.4**	**19.50**	**4.40**

Thin Varieties

Final PTAB Loads: 41,842

PPB ≥ 4.60

Loads Decreased	— Vs. 2022 —	Solids Decreased
17.3%		0.15



2023 Season Review

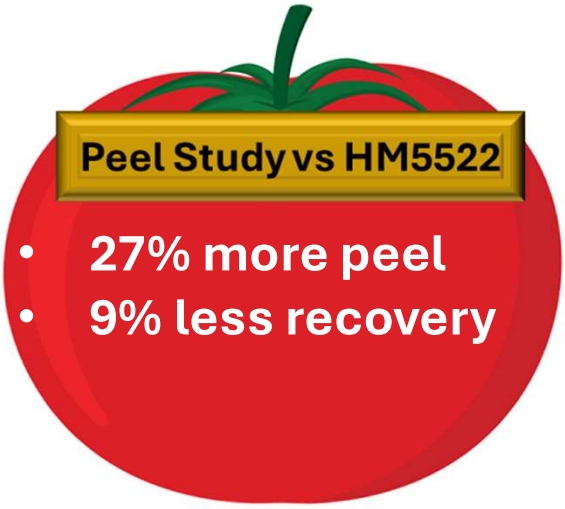
Thin		Disease
Harvest by	**SVTM9019**	VFFFNPtsw*
Aug 31st	Commercial Variety	Days: 127

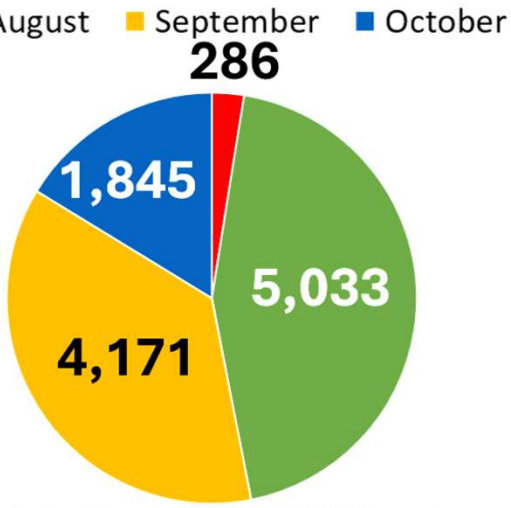
Seminis grow forward

Brix « » Yield

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
SVTM9019	84	5.59	14.06	4.66	287	2.09
HM5522	76	5.76	12.87	4.35	355	2.27
HM8268	81	5.53	12.99	4.04	357	2.28





Loads by Month, Final PTAB Report

2023 PTAB — Final PTAB

Variety	Loads	Brix	Mold	LU	Color	Green	pH
SVTM9019	11,335	5.47	2.2	1.9	20.9	1.3	4.30
HM5522	25,701	5.65	2.2	0.7	19.0	1.5	4.39
HM8268	15,012	5.53	2.4	1.6	18.50	1.30	4.47

HM5511 SVTM9012 **Class Varieties** BP74 SVTM1082

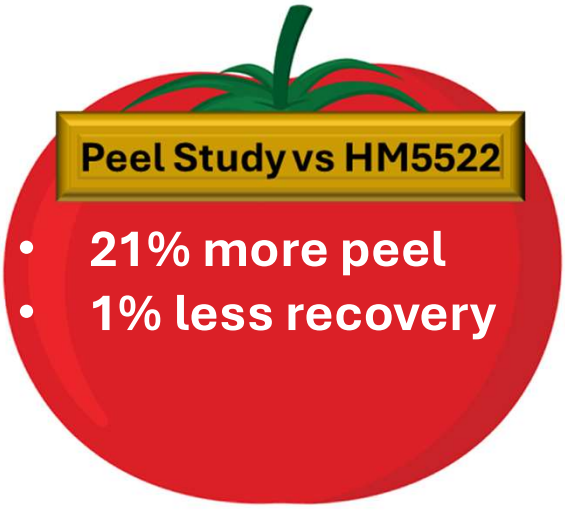
AgSeeds

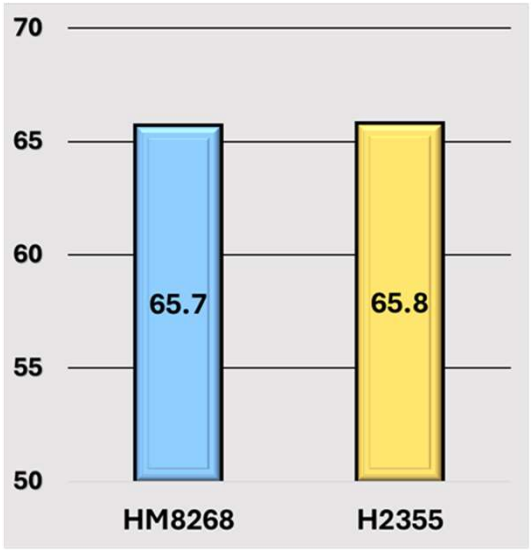
Thin		Disease
Harvest by	**H2355**	FFFNtswFr
Aug 25th	Semi-Commercial Variety	Days: 122

Chemistry

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
H2355	82	5.65	14.15	4.82	260	2.26
HM5522	76	5.76	12.87	4.35	355	2.27
HM8268	81	5.53	12.99	4.04	357	2.28





Yield (Tons per Acre), 5 locations

HM5511 SVTM9012 **Class Varieties** BP74 SVTM1082

Thin Class

Commercial Varieties

AgSeeds Lab Chemistry

2023: 31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
SVTM9019	83.6	5.59	14.06	4.66	2.09	287.2	4.13
BP74	85.6	5.58	14.11	4.67	2.27	288.3	4.23
N6474	80.5	5.43	14.51	4.63	2.18	289.6	4.23
SVTM9012	86.9	5.78	14.84	5.37	2.25	278.5	4.21
Thin	**82.1**	**5.61**	**14.42**	**4.89**	**2.22**	**273.0**	**4.21**

2023 PTAB Grades

Thin Class

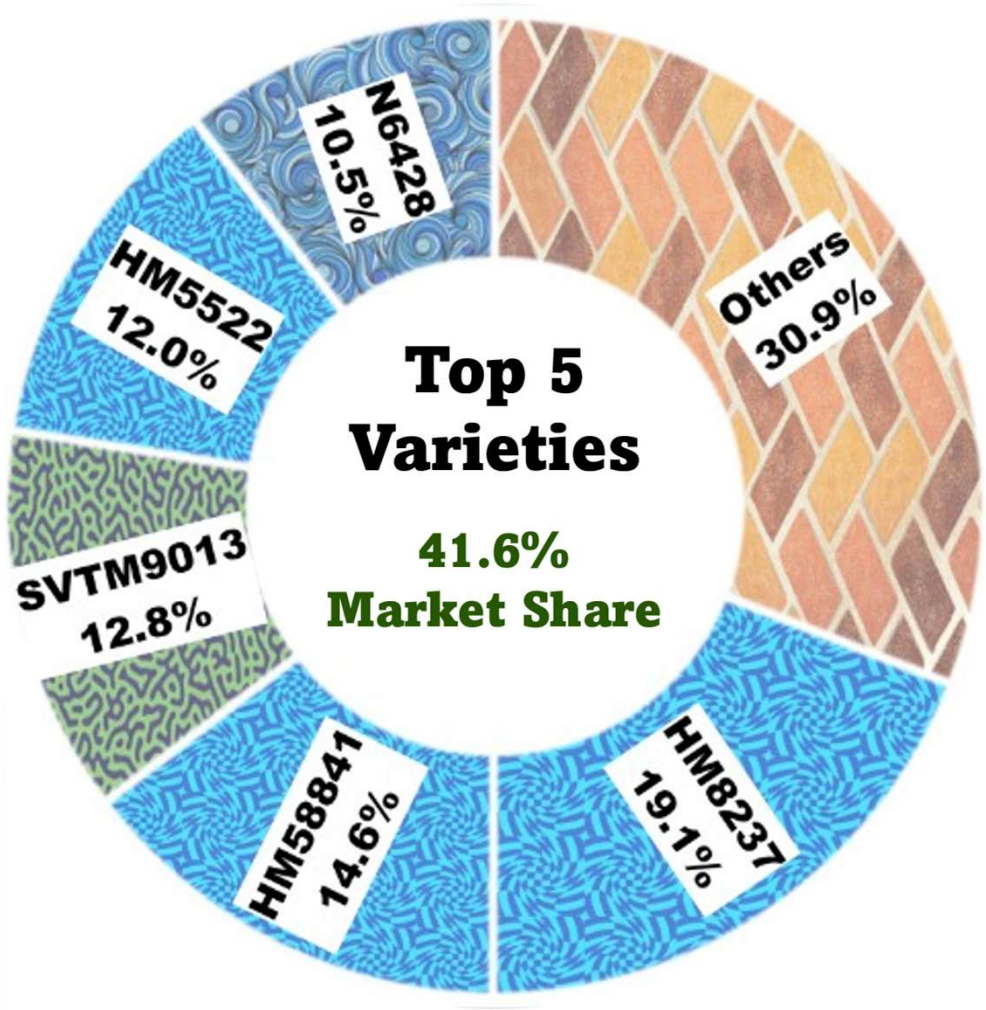
Variety	Attributes	Loads	Brix	Mold	LU	Color	pH
SVTM9019	F3, EFH	11,335	5.41	1.7	2.0	20.90	4.30
SVTM1082	F3	9,383	5.52	2.3	1.3	19.68	4.41
BP74	F3	7,456	5.47	2.7	1.0	19.16	4.48
HM5511	F3, Fr	2,913	5.38	1.7	2.5	18.91	4.46
N6474	F3, EFH	2,890	5.23	2.7	0.9	20.19	4.51
N6366	-	2,207	5.09	1.0	1.9	19.66	4.43
BP43	F3	1,365	5.17	5.3	0.8	19.52	4.53
SVTM9012	F3	1,294	5.46	2.4	1.3	18.83	4.42
N6402	-	1,284	5.65	1.1	1.3	18.58	4.47
SVTM9011	F3	599	5.24	2.1	2.1	19.29	4.36
DRI319	-	440	6.34	1.2	1.5	19.31	4.39
AB0311	-	312	5.55	1.1	1.6	18.88	4.38
Thin		**41,842**	**5.42**	**2.2**	**1.5**	**19.82**	**4.41**

Intermediate Varieties

Final PTAB Loads: 214,410

2.91 ≤ PPB ≤ 4.59

Loads Increased	— Vs. 2022 —	Solids Decreased
31.6%		0.04



2023 Season Review

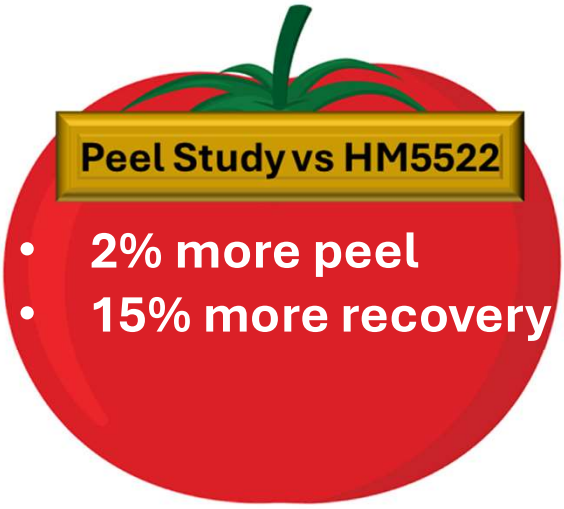
Inter		Disease
Harvest by	**SVTM9036**	VFFFNPtswLv*
Aug 31st	Commercial Variety	Days: 127

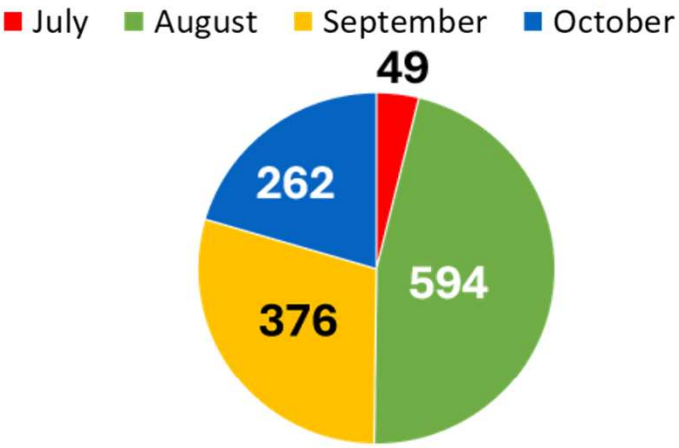
Seminis grow forward

Yield « » Horticulture

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
SVTM9036	86	5.30	12.49	3.41	433	2.21
HM5522	76	5.76	12.87	4.35	355	2.27
HM8268	81	5.53	12.99	4.04	357	2.28





Loads by Month, Final PTAB Report

2023 PTAB — Final PTAB

Variety	Loads	Brix	Mold	LU	Color	Green	pH
SVTM9036	1,281	5.19	2.5	1.3	19.9	1.2	4.46
HM5522	25,701	5.65	2.2	0.7	19.0	1.5	4.39
HM8268	15,012	5.53	2.4	1.6	18.50	1.30	4.47

Class Varieties

HM8237 HM58841 N6428 SVTM9013

AgSeeds

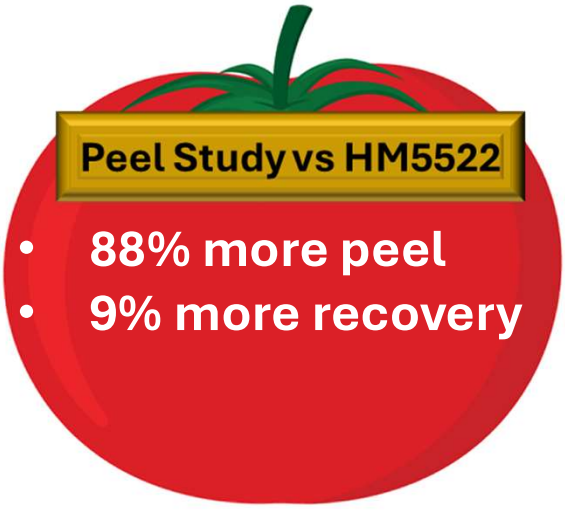
Inter		Disease
Harvest by	**LS0594**	VFFFNP
Aug 25th	Semi-Commercial Variety	Days: 120

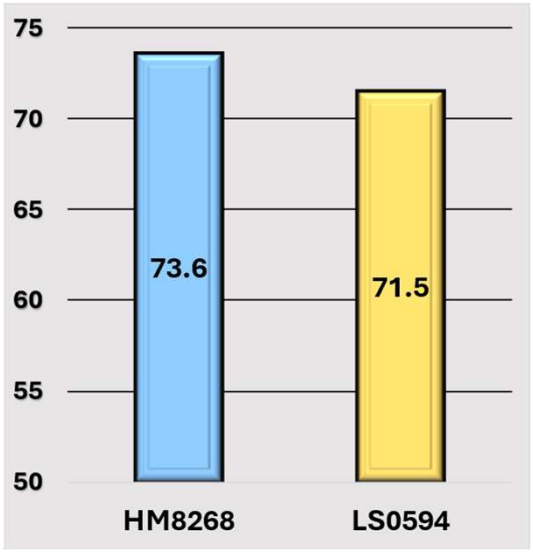
lark seeds international

High Brix « » Recovery

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
LS0594	77	5.74	13.46	4.62	375	2.21
HM5522	76	5.76	12.87	4.35	355	2.27
HM8268	81	5.53	12.99	4.04	357	2.28





Yield (Tons per Acre), 7 locations

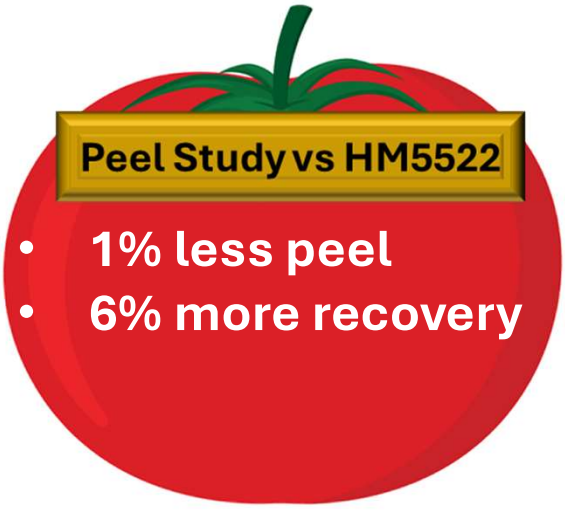
HM8237 HM58841 **Class Varieties** N6428 SVTM9013

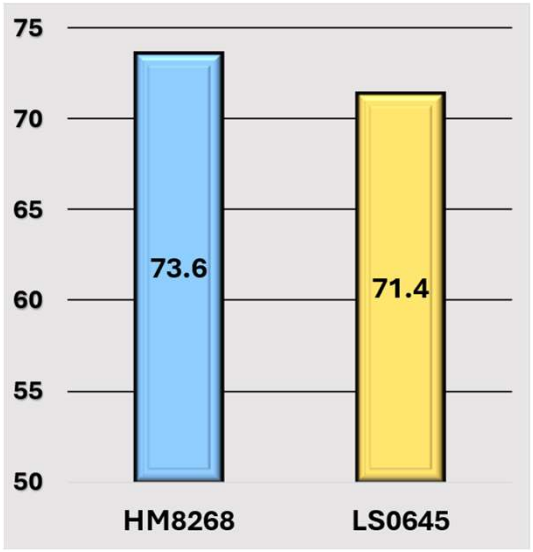
Inter		Disease
Harvest by	**LS0645**	VFFFNtsw
Aug 25th	Semi-Commercial Variety	Days: 120

Brix « » Dicer

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
LS0645	78	5.56	13.89	4.53	326	2.25
HM5522	76	5.76	12.87	4.35	355	2.27
HM8268	81	5.53	12.99	4.04	357	2.28





Yield (Tons per Acre), 7 locations

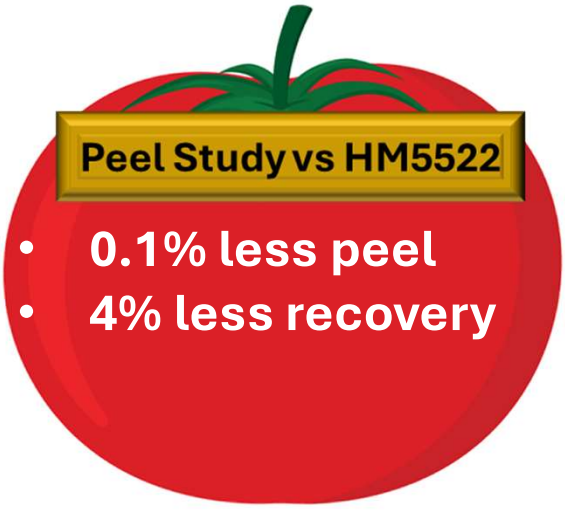
HM8237 HM58841 **Class Varieties** N6428 SVTM9013

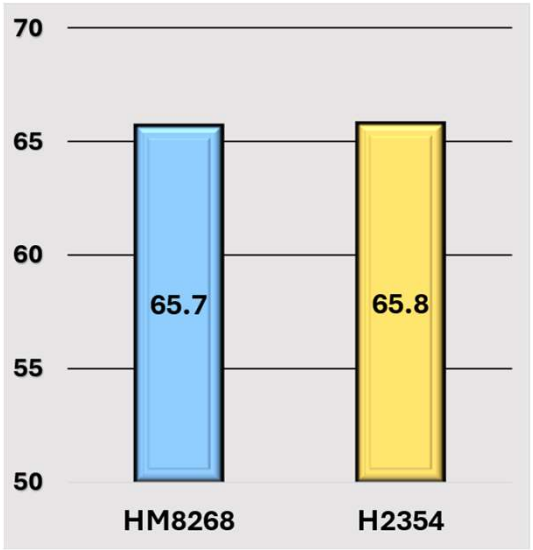
Inter		Disease
Harvest by	**H2354**	VFFFNtswFr
Aug 25th	Semi-Commercial Variety	Days: 119

Crown Rot « » Peeler

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
H2354	87	5.46	14.10	4.47	286	2.19
HM5522	76	5.76	12.87	4.35	355	2.27
HM8268	81	5.53	12.99	4.04	357	2.28





Yield (Tons per Acre), 5 locations

HM8237 HM58841 **Class Varieties** N6428 SVTM9013

Intermediate Class

Commercial Varieties

AgSeeds Lab Chemistry

2023: 31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
HM8237	83.0	5.37	12.77	3.67	2.19	300.1	4.18
HM58841	79.1	5.61	11.26	3.30	2.15	425.2	4.22
HM5522	75.6	5.76	12.87	4.35	2.27	355.3	4.19
N6428	79.0	5.07	13.13	3.35	2.17	392.8	4.22
HM4521	81.0	5.44	12.35	3.57	2.14	348.2	4.18
HM8268	80.5	5.53	12.99	4.04	2.28	357.3	4.23
SVTM9021	83.8	5.47	12.34	3.60	2.20	445.5	4.17
H2010	74.1	5.31	13.04	3.70	2.28	375.5	4.20
H2012	72.7	5.38	11.99	3.29	2.17	458.1	4.20
UG29814	77.2	5.57	11.83	3.52	2.25	438.1	4.18
Inter	**80.2**	**5.45**	**12.84**	**3.83**	**2.23**	**363.3**	**4.22**

2023 PTAB Grades

Intermediate Class

Variety	Attributes	Loads	Brix	Mold	LU	Color	pH
HM8237	F3, Fr, EFH	41,053	5.13	1.6	0.5	19.89	4.40
HM58841	EFH	31,292	5.24	2.1	0.6	19.72	4.45
SVTM9013	F3	27,491	5.06	2.6	1.1	19.37	4.46
HM5522	Fr	25,701	5.66	2.1	0.8	18.66	4.39
N6428	F3, EFH	22,580	4.89	5.2	1.6	20.28	4.52
HM4521	EFH	15,429	5.28	4.9	0.8	19.34	4.43
HM8268	F3	15,012	5.36	2.3	1.4	18.52	4.47
SVTM9021	F3, Fr	7,905	5.15	3.0	0.8	19.72	4.42
H2010	F3, EFS™	5,016	5.04	1.7	1.6	19.31	4.50
N6434	F3, EFH	4,812	4.96	3.3	1.6	20.48	4.54
H2012	F3, EFS™	4,514	5.31	3.2	1.5	20.11	4.46
HM5235	F3	2,789	5.16	2.2	2.1	18.80	4.45
UG29814	F3, EFH	1,137	5.07	3.0	0.6	19.19	4.47
HM3887	-	828	5.16	3.0	1.8	19.60	4.41
SV8011TM	-	707	5.36	1.5	0.8	18.87	4.49
Intermediate		**214,410**	**5.21**	**2.7**	**1.0**	**19.52**	**4.44**

Thick Varieties

Final PTAB Loads: 178,953

PPB ≤ 2.90

Loads Increased	— Vs. 2022 —	Solids Decreased
37.9%		0.03

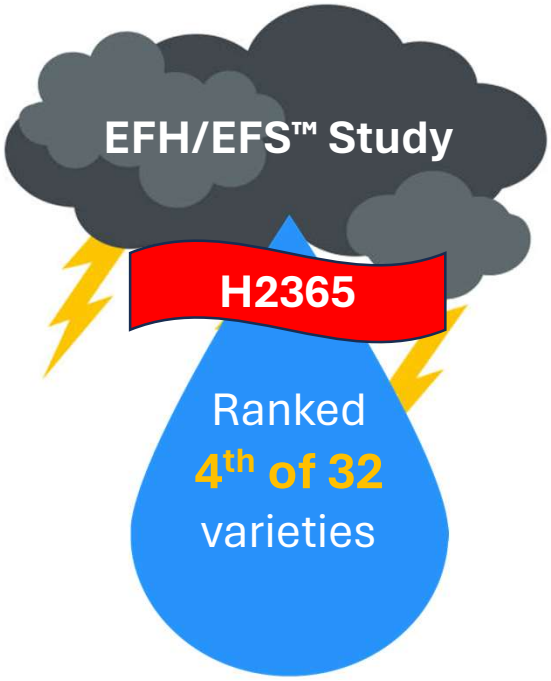


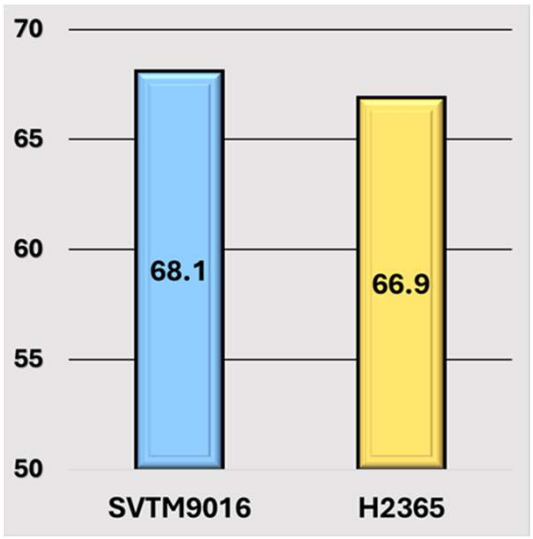
Thick		Disease
Harvest by	**H2365**	VFFFNPtswFr*
Sept 30th	Semi-Commercial Variety	Days: 127

EFS™ « » Viscosity

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
H2365	65	5.03	10.69	2.07	623	2.18
SVTM9016	83	5.14	11.66	2.73	462	2.09
H1996	71	5.11	10.81	2.26	510	2.27





Yield (Tons per Acre), 5 locations

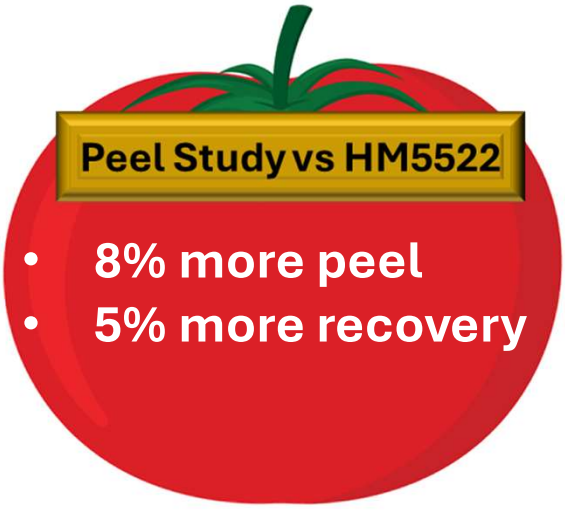
SVTM9016 H2016 **Class Varieties** H1996 N6475

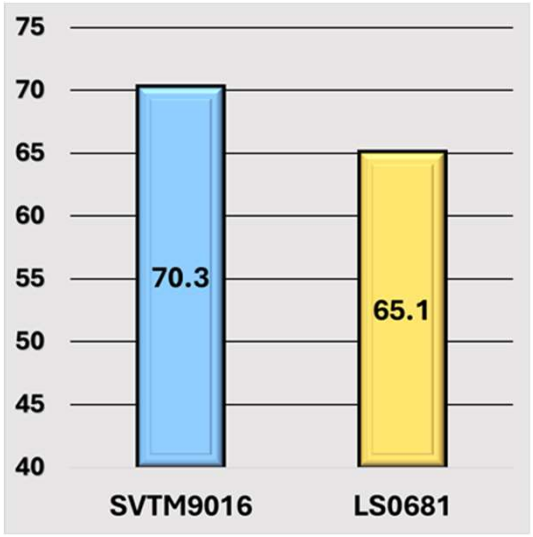
Thick		Disease
Harvest by	**LS0681**	VFFFNPtsw
Aug 25th	Semi-Commercial Variety	Days: 123

Horticulture « » Recovery

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
LS0681	77	5.12	11.98	2.86	455	2.19
SVTM9016	83	5.14	11.66	2.73	462	2.09
H1996	71	5.11	10.81	2.26	510	2.27





Yield (Tons per Acre), 7 locations

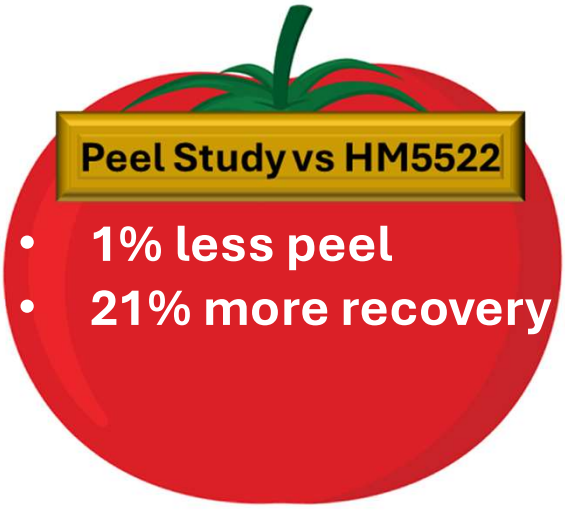
Thick		Disease
Harvest by	**N6480**	VFFFNPtsw*
Aug 31st	Semi-Commercial Variety	Days: 122

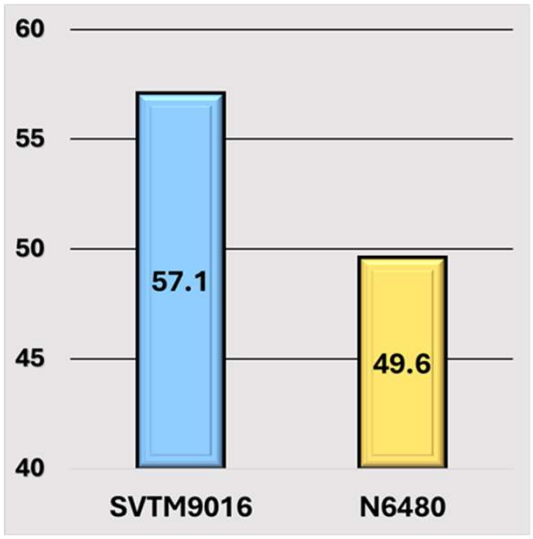
nunhems

Peeler

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
N6480	84	5.10	11.22	2.44	363	2.23
SVTM9016	83	5.14	11.66	2.73	462	2.09
H1996	71	5.11	10.81	2.26	510	2.27





Yield (Tons per Acre), 10 locations

Thick

Harvest by

Sep 30th

SVTM9041

Semi-Commercial Variety

Disease

VFFFNPtsw*

Days: 127

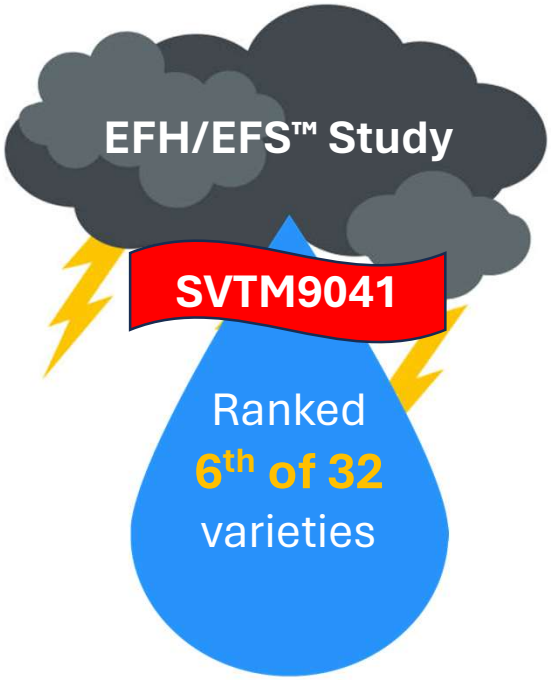
Seminis grow forward

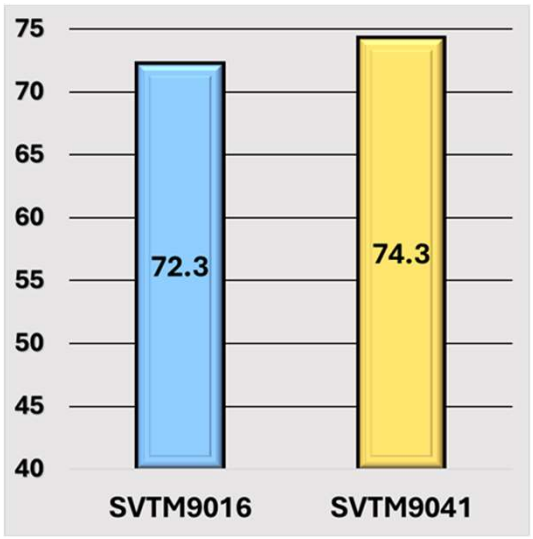
Yield « » Adaptability

Limited

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
SVTM9041	81	5.33	10.84	2.64	546	2.11
SVTM9016	83	5.14	11.66	2.73	462	2.09
H1996	71	5.11	10.81	2.26	510	2.27





Yield (Tons per Acre), 6 locations

SVTM9016 H2016 | Class Varieties | H1996 N6475

Thick Class

Commercial Varieties

AgSeeds Lab Chemistry

2023: 31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
SVTM9016	83.1	5.14	11.66	2.73	2.09	461.6	4.15
SVTM9023	77.9	5.29	11.00	2.62	2.13	522.6	4.19
H1996	71.1	5.11	10.81	2.26	2.27	510.1	4.18
H2016	81.4	4.96	10.61	1.90	2.31	521.4	4.17
H1662	78.0	5.09	10.26	1.95	2.15	672.9	4.20
H5608	74.0	5.02	10.96	2.18	2.27	467.5	4.21
SVTM9025	78.7	5.34	11.20	2.82	2.16	530.6	4.08
N6475	73.7	4.82	10.92	1.84	2.22	377.3	4.25
H2015	69.2	4.91	10.18	1.61	2.35	530.6	4.17
H1776	87.7	5.29	10.40	2.35	2.22	521.1	4.18
Thick	**76.9**	**5.10**	**10.75**	**2.21**	**2.20**	**528.7**	**4.19**

2023 PTAB Grades

Thick Class

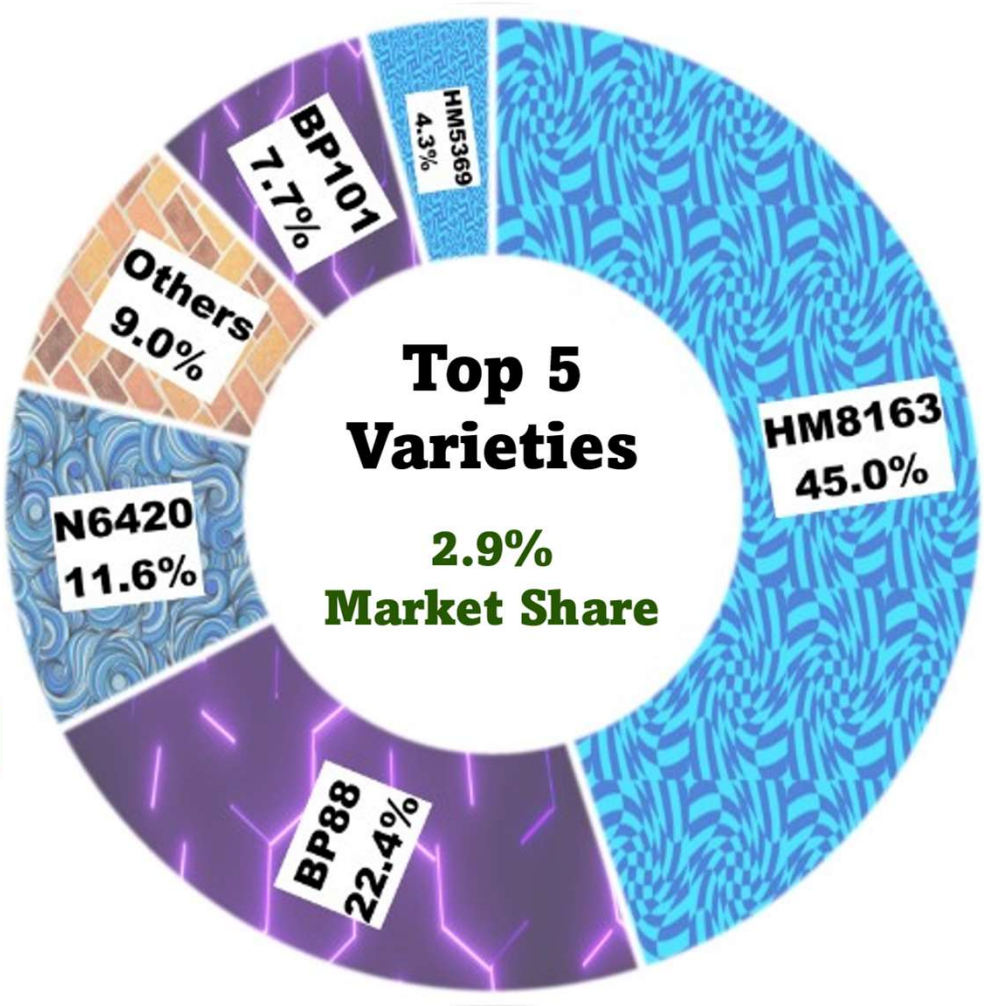
Variety	Attributes	Loads	Brix	Mold	LU	Color	pH
SVTM9016	F3, EFH	36,801	5.10	3.4	0.4	19.94	4.40
SVTM9023	F3, EFH	35,101	5.05	2.4	1.1	20.29	4.48
H1996	F3, EFS™	26,889	4.97	2.5	0.6	19.03	4.48
H2016	F3	15,439	4.92	4.3	0.9	18.48	4.43
H1662	F3, Lv	9,773	5.06	3.2	1.1	20.07	4.51
H5608	-	8,398	4.97	2.2	1.1	18.80	4.43
SVTM9025	F3, Fr, EFH	7,396	5.22	2.0	0.6	19.73	4.34
N6475	F3, EFH	6,893	4.68	4.9	0.7	19.86	4.55
UG16112	EFH	2,754	4.99	1.4	0.4	18.43	4.49
H4707	EFS™	2,702	4.69	1.5	0.6	20.62	4.48
SVTM9024	F3, EFH	1,814	4.94	2.1	0.4	19.24	4.34
H2015	F3	1,603	4.84	4.3	0.7	17.87	4.47
H5508	EFS™	1,374	4.82	1.7	0.5	19.31	4.51
Thick		**178,953**	**5.01**	**3.0**	**0.8**	**19.56**	**4.45**

Pear Varieties

Final PTAB Loads: 14,789

Pear Shape

Loads Increased	— Vs. 2022 —	Solids Decreased
19.5%		0.27



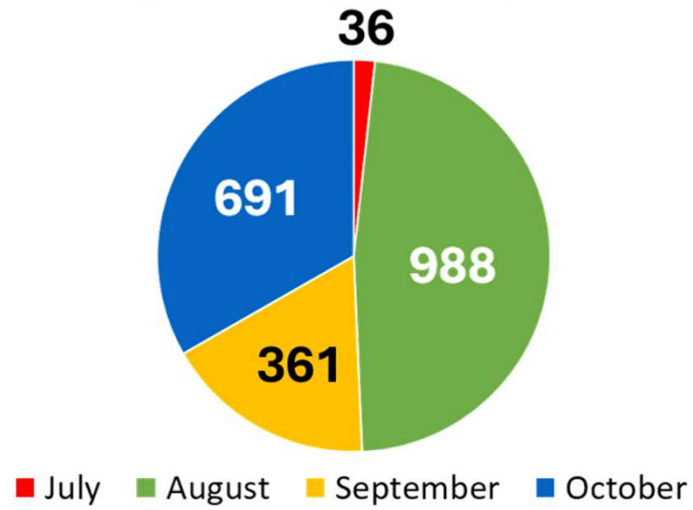
Pear	BP101	Disease
Harvest by	Commercial Variety	VFFFNPtsw
Aug 31st		Days: 123

BHNSeed Hybrid Tomato

F3

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	JB	PPB	Ost	Color
BP101	80	4.91	13.63	3.34	257	2.24
HM8163	77	5.80	12.03	3.99	344	2.26
BP88	86	5.31	14.16	4.26	244	2.27



Loads by Month, Final PTAB Report

2023 PTAB — Final PTAB

Variety	Loads	Brix	Mold	LU	Color	Green	pH
BP101	1,135	4.77	4.0	1.3	19.4	2.0	4.56
HM8163	6,658	5.63	3.3	1.1	18.6	1.1	4.52

HM8163 BP88 — **Class Varieties** — H1293 N6420

AgSeeds

Pear		Disease
Harvest by	**N6485**	VFFFNtswLv
Aug 31st	Semi-Commercial Variety	Days: 125

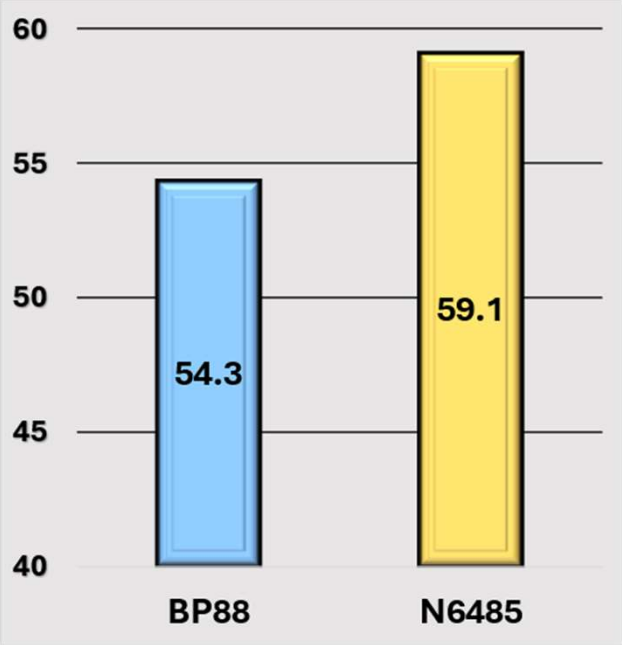
nunhems

Yield « » F3

Limited

2023 AgSeeds Lab — 31 Locations

Variety	FW	Brix	PPB	Ost	Color
N6485	73	4.76	2.71	254	2.25
HM8163	77	5.80	3.99	344	2.26



Yield (Tons per Acre), 8 locations, 2022-2023

HM8163 BP88 **Class Varieties** H1293 N6420

Pear Class

Commercial Varieties

AgSeeds Lab Chemistry

2023: 31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
HM8163	76.6	5.80	12.03	3.99	2.26	343.9	4.27
BP88	85.8	5.31	14.16	4.26	2.27	244.3	4.26
HM8507	76.1	5.74	13.35	4.55	2.34	283.1	4.28
H2128	74.1	5.33	12.94	3.68	2.35	400.0	4.31
Pear	**76.9**	**5.22**	**13.08**	**3.58**	**2.28**	**297.0**	**4.27**

2023 PTAB Grades

Pear Class

Variety	Attributes	Loads	Brix	Mold	LU	Color	pH
HM8163	-	6,658	5.70	2.7	1.2	18.43	4.50
BP88	F3	3,306	5.05	3.9	1.7	18.88	4.57
N6420	-	1,717	5.12	2.6	1.1	19.26	4.58
HM5369	-	636	5.44	2.2	0.5	18.83	4.61
HM8507	F3, Fr	494	5.53	5.6	1.6	17.80	4.60
H2128	F3	311	5.40	4.9	2.4	17.96	4.65
HM7885	EFH	168	4.52	5.5	0.6	20.02	4.64
H1293	-	97	5.33	1.6	1.5	19.07	4.57
Pear		**14,789**	**5.34**	**3.3**	**1.3**	**18.72**	**4.55**