

2019

Season Highlights

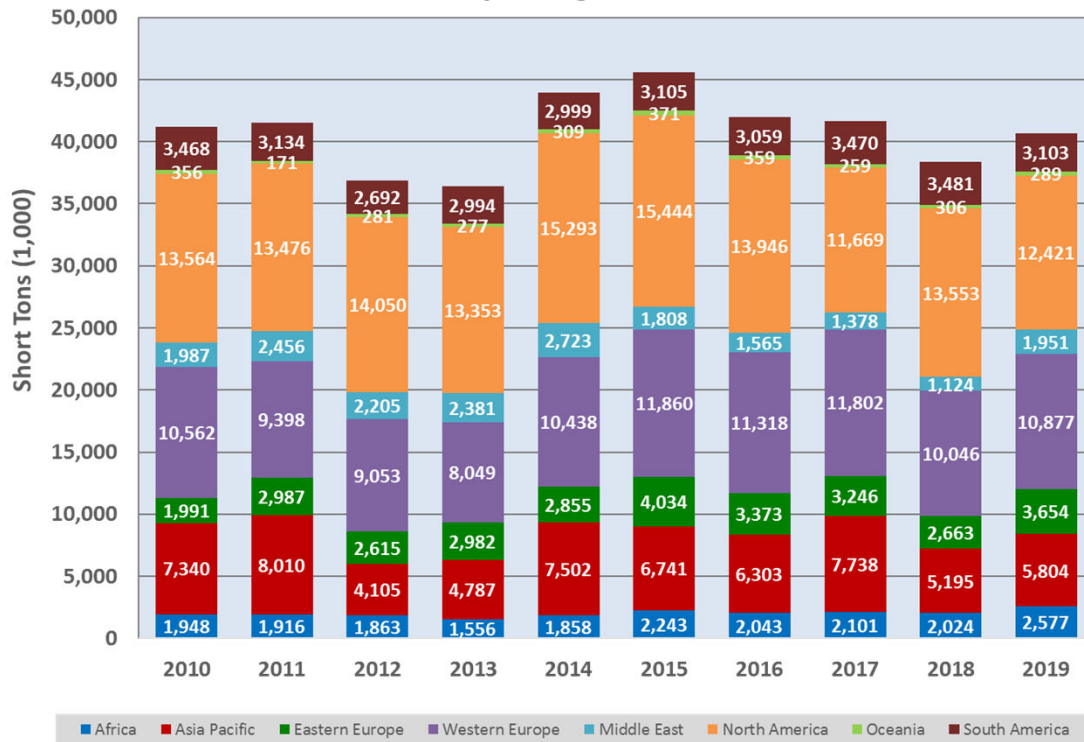


2019 Season Review

2019 Season Review

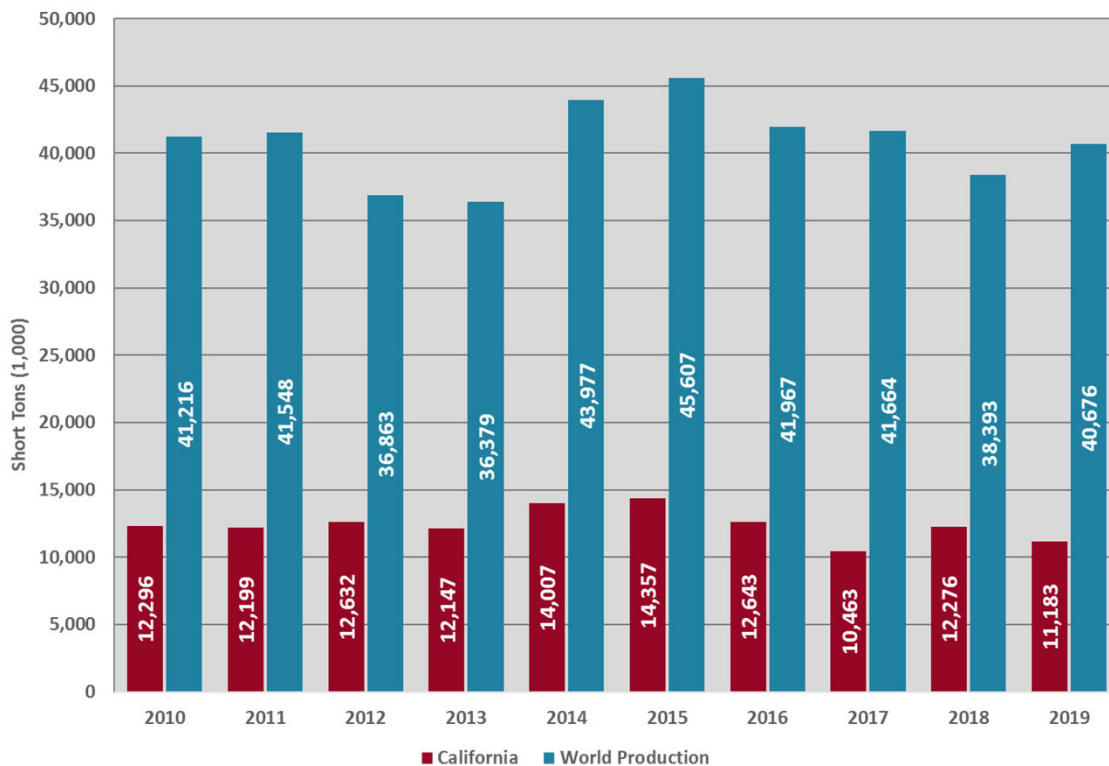
World Production History

Short Tons by Region: 2010-2019



California vs World Production

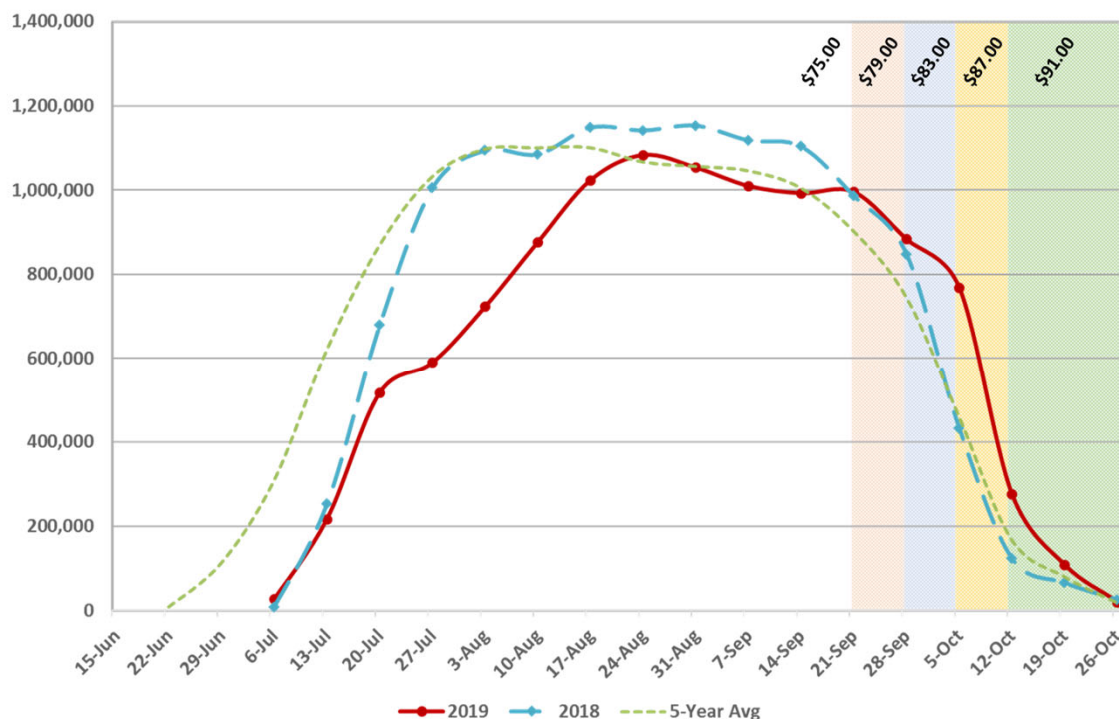
Short Tons: 2010-2019



2019 Season Review

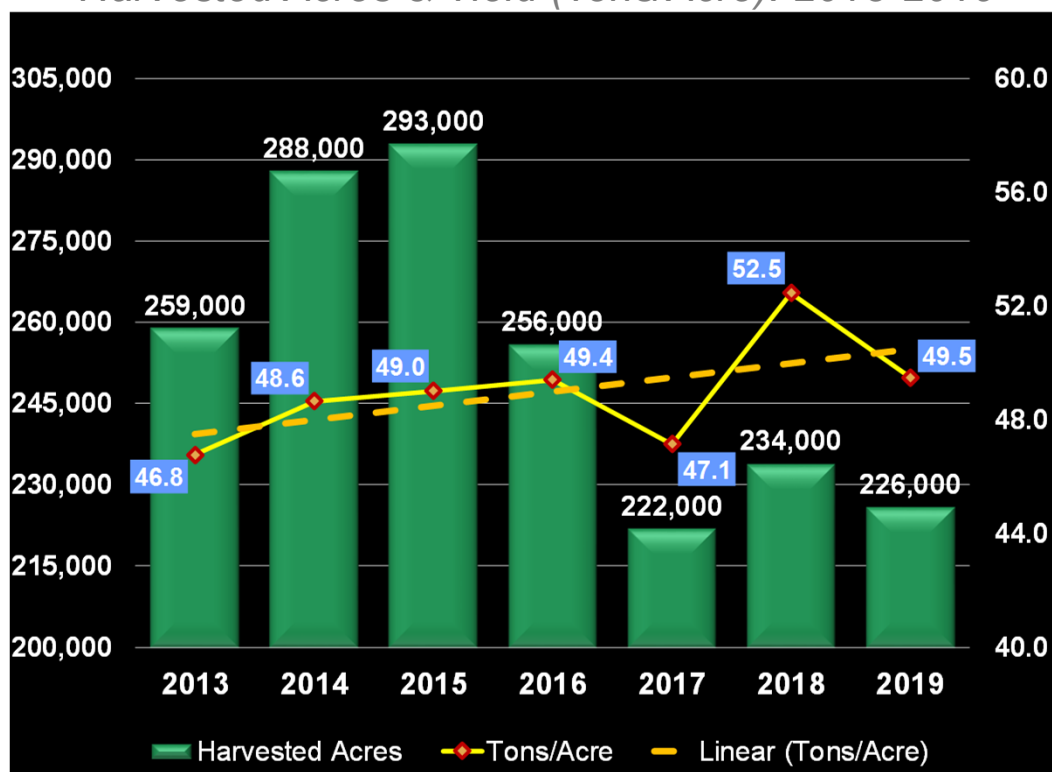
California Processing Tomato Harvest

Tons per Week – 2019, 2018 & 5 Year Average



California Processing Tomato Harvest

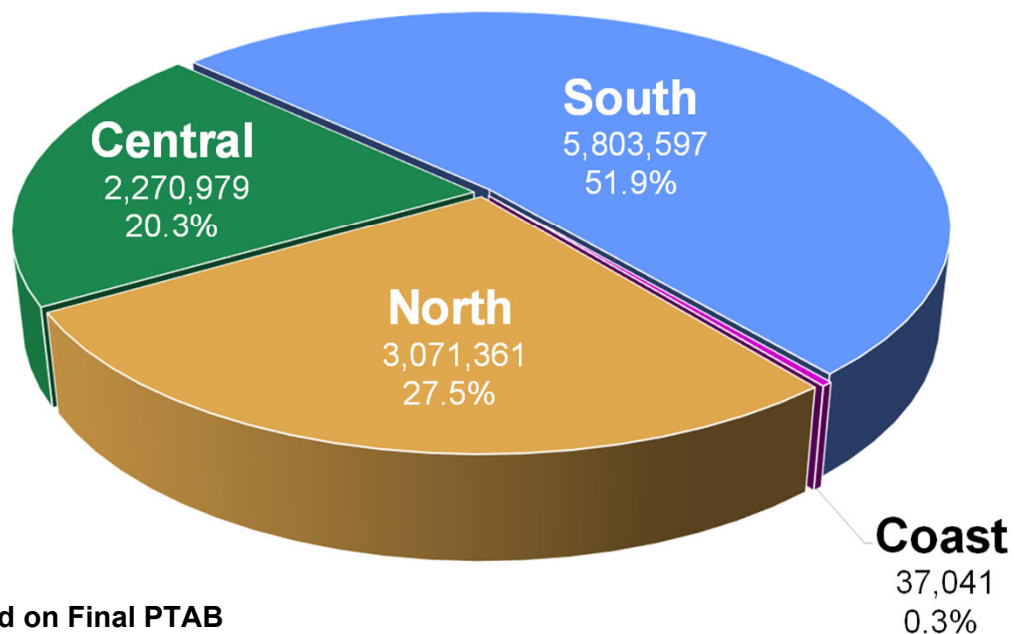
Harvested Acres & Yield (Tons/Acre): 2013-2019





2019 California Production

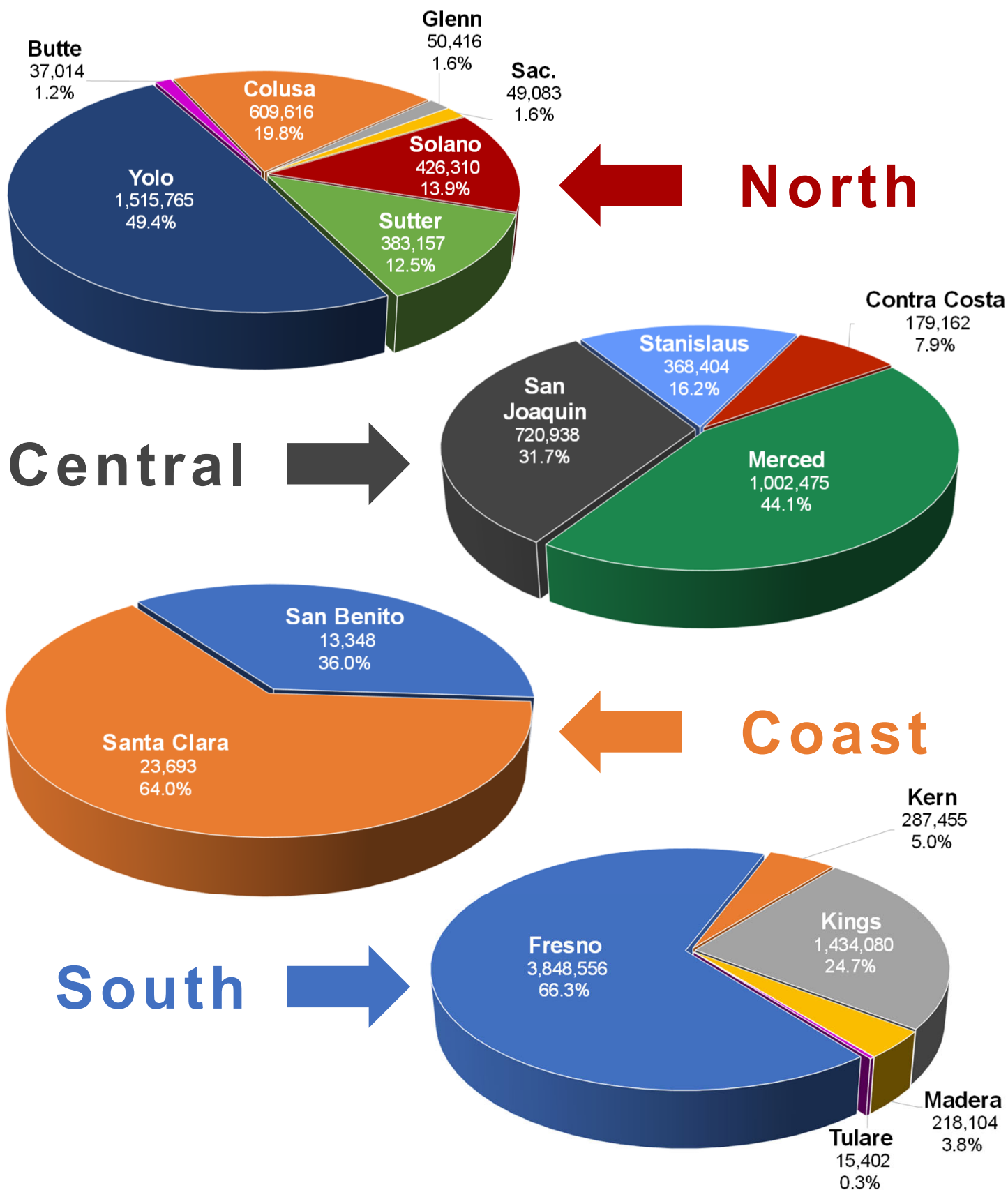
By Region (Short Tons)



Based on Final PTAB

2019 Region Production

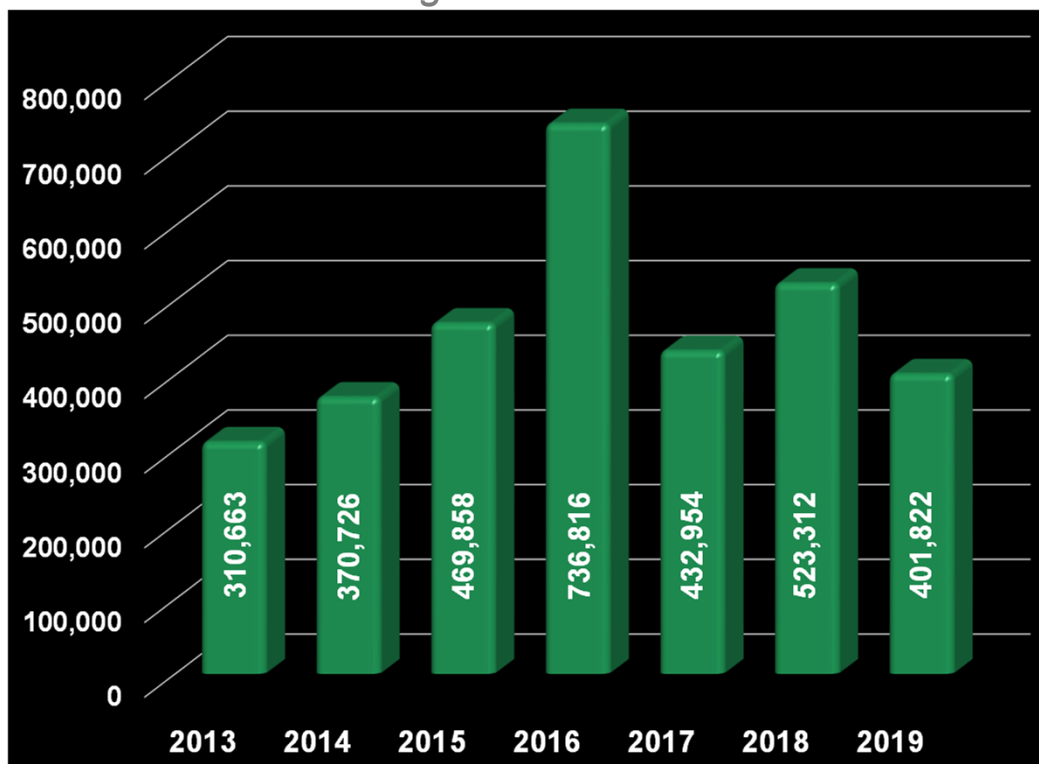
North, Central, Coast & South Final Tons



2019 Season Review

California Processing Tomato Harvest

Historical Organic Tons: 2013 - 2019



California Processing Tomato Harvest

Organic Tons by Region: 2018 & 2019

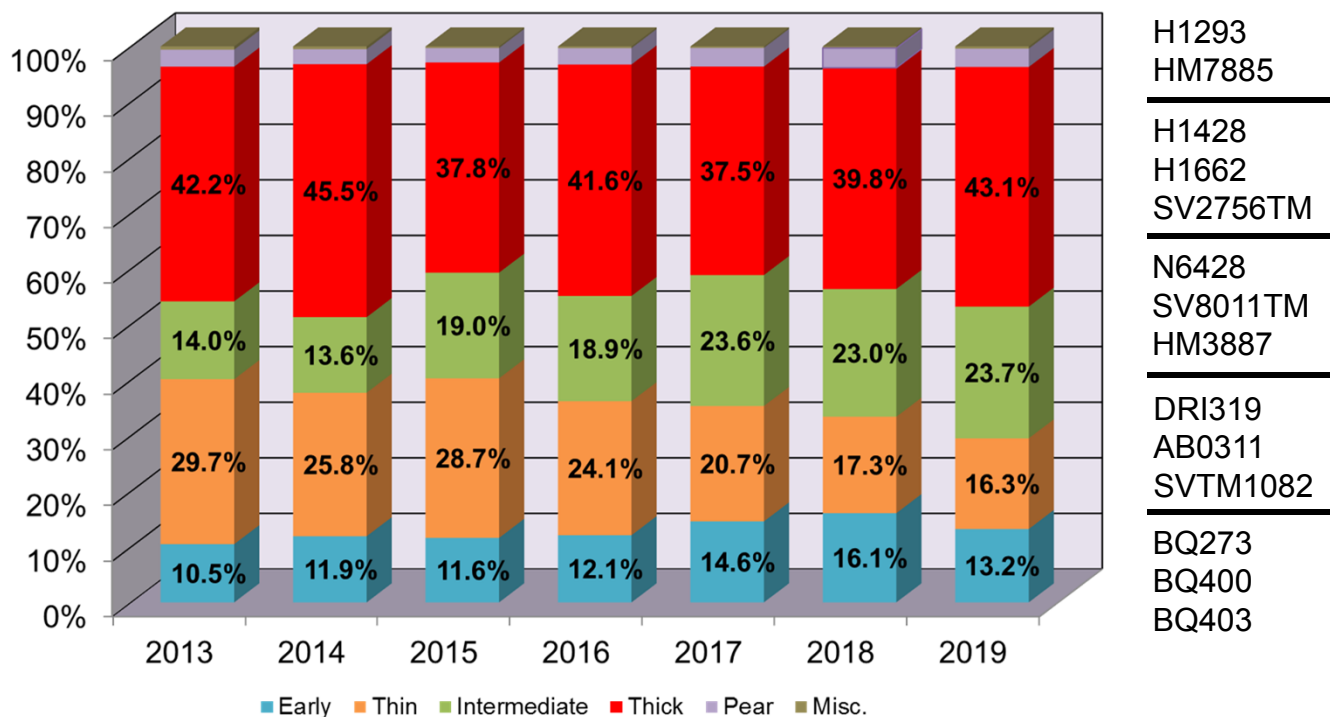
Region	County	2018	2019	% State
North	Colusa	16,873	2,323	27.8%
	Sutter	31,452	25,373	
	Yolo	98,221	83,893	
North Total		146,546	111,589	
Central	Merced	26,457	28,480	8.4%
	San Joaquin	-	3,763	
	Stanislaus	1,944	1,331	
Central Total		28,401	33,574	
South	Fresno	232,482	209,095	63.9%
	Kern	51,143	25,602	
	Kings	44,221	21,962	
	Madera	17,330	-	
South Total		345,176	256,659	
Coast	San Benito	3,189	-	0%
Coast Total		3,189	0	
Organic Total		523,312	401,822	
Market Share of CA		4.26%	3.59%	100.0%

2019 Season Review

AgSeeds Unlimited 2019 Use Category Descriptions



% of Market by Use Category 2013 - 2019



2019 Season Review

2010 vs 2019 PTAB Top 15 Varieties

Total Loads and Years in Market

2010

Variety	Loads	Years in Market
N6366	90,761	6
H8504	57,814	5
AB2	53,677	8
H2401	34,523	8
H9780	29,684	12
H8004	22,998	5
H9663	12,666	13
CXD255	10,713	4
PS345	10,240	5
H4707	10,204	2
CXD187	9,432	13
APT410	8,836	13
N6368	8,635	5
H8892	7,685	16
HP303	7,381	13
Total	375,249	8.5

% of Pack: 79.3%

2019

Variety	Loads	Years in Market
N6428	26,976	3
H1428	25,920	4
BQ273	24,907	5
AB0311	23,733	9
SV8011TM	23,050	4
H1662	22,199	2
DRI319	20,550	8
SV2756TM	19,657	4
H4707	18,664	11
H5608	18,063	10
H2401	13,886	17
SVTM1082	13,660	2
N6415	10,385	5
BQ400	9,635	3
BQ403	9,616	3
Total	280,901	6.0

% of Pack: 63.5%

2019 PTAB Variety Movement

Change from 2018

Top 15 Increased

Variety	Loads	% Gained
H1662	12,404	126.6%
SVTM1082	11,558	549.9%
HM58841	6,052	376.1%
H1428	5,903	29.5%
H1310	5,278	164.3%
BQ403	4,654	93.8%
N6426	3,651	185.7%
HM5235	3,542	204.6%
BOS811	3,530	176.9%
SV8011TM	3,172	16.0%
UG16112	2,871	140.0%
SVTM9008	2,451	-
SVTM9000	2,040	806.3%
BQ413	2,009	-
N6441	1,872	-
Total	70,987	101.6%

* % gained from varieties with over 200 loads in 2018

Top 15 Decreased

Variety	Loads	% Lost
BQ273	-17,205	40.9%
AB0311	-13,720	36.6%
HM3887	-8,397	52.0%
N6366	-6,337	54.3%
HM4885	-6,205	41.3%
N6416	-6,115	77.7%
H4707	-5,931	24.1%
DRI319	-4,510	18.0%
N6415	-4,074	28.2%
H2401	-4,055	22.6%
H5702	-3,484	30.1%
H5608	-3,443	16.0%
UG19406	-2,772	40.8%
H8504	-2,622	46.6%
HM1892	-2,512	49.0%
Total	-91,382	34.7%

2019 Season Review

Supplier Historical Market Share

2015 - 2019

Final PTAB Report

Supplier	2015	2016	2017	2018	2019	# of Varieties
Heinz	35.5%	31.4%	27.1%	30.3%	31.6%	33
Seminis	14.7%	17.0%	19.5%	23.2%	25.0%	22
Nunhems	24.3%	21.7%	16.8%	16.2%	15.0%	19
Harris Moran	14.9%	19.6%	22.8%	13.8%	12.3%	24
Woodbridge	2.7%	4.7%	8.7%	12.1%	11.1%	13
United Genetics	5.9%	3.6%	3.0%	2.7%	2.6%	13
Orsetti	0.5%	0.1%	0.0%	0.5%	1.3%	3
BHN	0.9%	1.4%	1.6%	0.8%	0.7%	10

2019 Supplier Market Share

Use Category

Final PTAB Report

Supplier	Early	Viscosity			Pear	F3	EFS™ EFH	Total
		Thin	Inter.	Thick				
Heinz	5.0%	0.1%	0.5%	67.2%	55.0%	32.7%	43.3%	31.6%
Seminis	4.0%	82.9%	23.1%	12.7%	0.1%	16.9%	11.0%	25.0%
Nunhems	5.2%	13.1%	33.7%	8.4%	18.2%	37.2%	25.1%	15.0%
Harris Moran	1.2%	0.7%	36.2%	5.9%	26.7%	6.9%	16.0%	12.3%
Woodbridge	79.4%	-	2.6%	-	-	3.2%	-	11.1%
United Genetics	-	3.0%	3.9%	2.8%	-	-	4.6%	2.6%
Orsetti	0.2%	-	-	2.9%	-	-	-	1.3%
BHN	5.0%	0.2%	-	-	-	3.2%	-	0.7%

2019 Season Review

2019 Supplier Market Share

Regions

Final PTAB Report

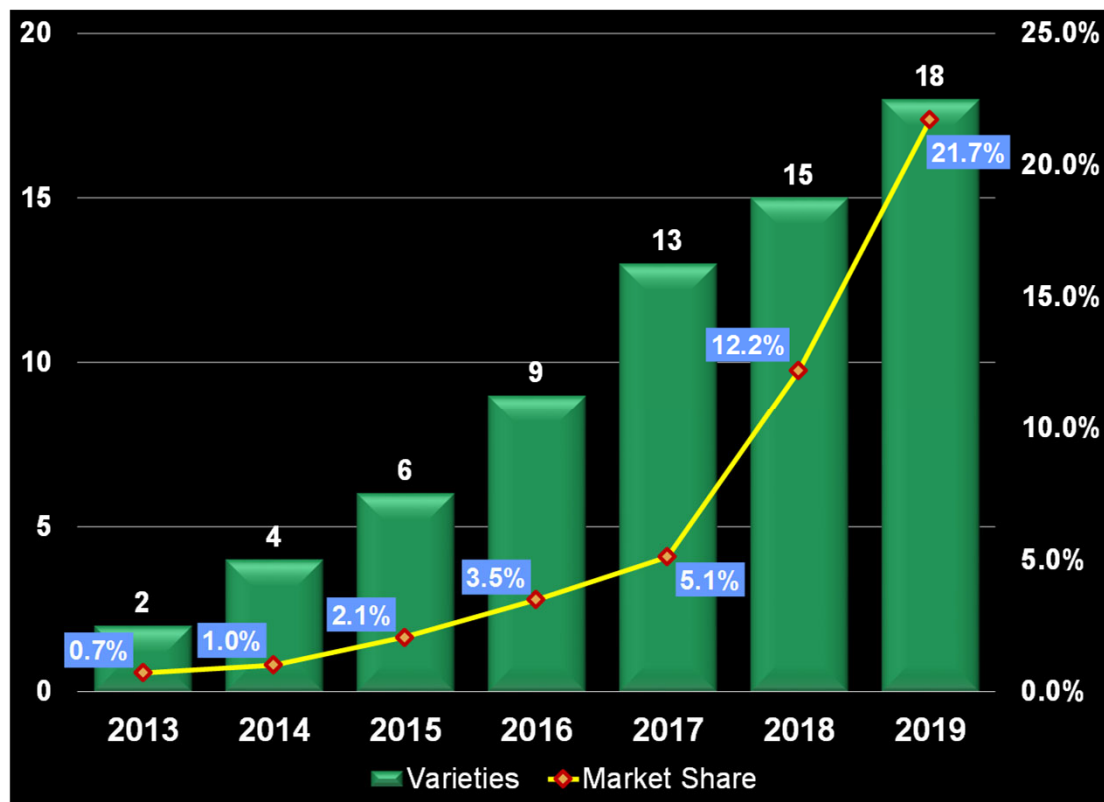
Supplier	North	Central	South	Coast	Total
Heinz	34.1%	36.9%	28.4%	-	31.6%
Seminis	18.6%	30.0%	26.6%	17.9%	25.0%
Nunhems	18.7%	14.9%	12.8%	57.9%	15.0%
Harris Moran	15.7%	12.4%	10.3%	19.7%	12.3%
Woodbridge	7.6%	3.5%	16.0%	4.5%	11.1%
United Genetics	1.8%	1.9%	3.4%	-	2.6%
Orsetti	0.8%	0.1%	2.0%	-	1.3%
BHN	2.4%	-	-	-	0.7%



2019 Season Review

F3 Genetics Growth in California

2013-2019



F3 Genetics Growth in California

F3 Variety Loads on PTAB

Year	PTAB Rank	Variety		
		1st	2nd	3rd
2019	1	N6428	H1662	SVTM1082
2018	3	N6428	H1662	N6434
2017	20	N6428	BP16	BP13
2016	28	BQ141	BP2	BP13
2015	24	BP2	BQ142	BQ141
2014	35	CXD282	SV8232TM	H1310
2013	37	CXD282	AB306	-

Varieties By Use Category



2019

Trial Types

Total
200

Plot: 65 Locations

Chemistry & early indications of horticultural performance



GT: 48 Locations

First true test of yield and commercial viability



Adaptive: 59 Locations

Confirmation of commercial potential



Specialty: 28 Locations

Other trials testing chemistry, yield, paste and dice recovery



EARLY VARIETIES

Early Varieties

13.2% of Total Market

PTAB Loads: 58,554

117 Days or Less

Loads Decreased
21.7%

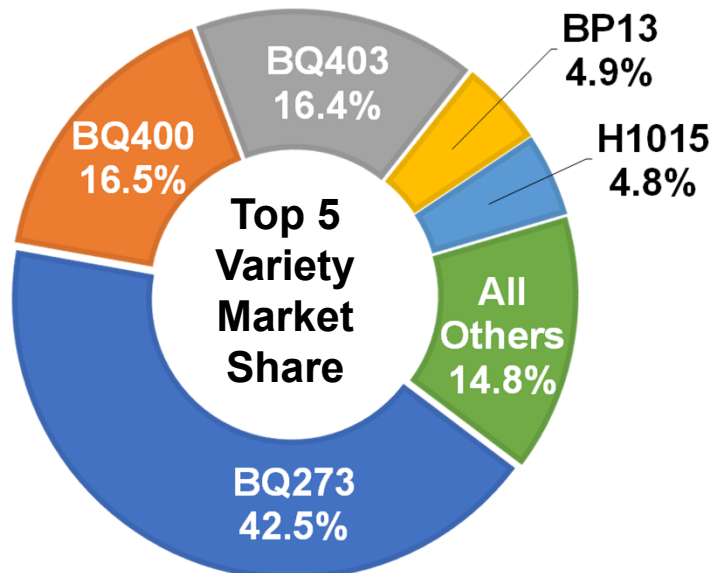
— **Vs. 2018** —

Solids Increased
0.15

Early Pack Timeline

% Packed: 21 Day Intervals

Class	27-Jul	17-Aug	7-Sep	28-Sep
Early	50.3%	89.5%	98.1%	99.4%



Class Market Share

By Region

Class	North	Central	South	Coast
Early	13.4%	2.8%	17.2%	0.0%

2019 Season Review

SVTM9000

VFFNPtswLv



Days: 115

Commercial Variety

Early

Powdery Mildew | | Thick Viscosity

2019 AgSeeds Lab

34 Locations

Variety	BQ273	SVTM9000	BQ400
Fruit Wt	76	80	71
Brix	5.42	5.03	5.16
JB	14.53	13.12	13.68
PPB	4.63	3.28	3.78
pH	4.13	4.23	4.25
A/B	2.23	2.24	2.31
Ostwald	563	547	501

Dice Report Card

Recovery Retention Integrity

Desirable Undesirable Average

Optimal Harvest Date

July 20th → Aug 30th

Comparable Varieties

BQ273

BQ400

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
BQ273	24,907	5.34	0.7	1.3	21.5	4.37
SVTM9000	2,293	5.16	0.6	1.0	20.7	4.45
BQ400	9,635	5.14	0.5	1.1	20.1	4.47

2019 Season Review

BQ413

VFFFN_{tsw}

Woodbridge
Seed

Days: 115

Commercial Variety

Early

F3 | | Strong Vine

2019 AgSeeds Lab

34 Locations

Variety	BQ273	BQ413	BP13
Fruit Wt	76	76	73
Brix	5.42	5.07	5.00
JB	14.53	13.65	15.03
PPB	4.63	3.60	4.19
pH	4.13	4.28	4.20
A/B	2.23	2.25	2.22
Ostwald	563	455	386

Dice Report Card

Recovery	Retention	Integrity
Undesirable	Average	Average

Optimal Harvest Date

July 1st  Aug 1st

Comparable Varieties

BP13

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
BQ273	24,907	5.34	0.7	1.3	21.5	4.37
BQ413	2,164	4.64	1.2	0.9	21.0	4.50
BP13	2,898	4.76	0.6	1.1	21.3	4.39

2019 Season Review

BP51

VFFFN_Ptsw*



Days: 115

Semi-Commercial Variety

Early

F3 | | High Brix

2019 AgSeeds Lab

34 Locations

Variety	BQ273	BP51	BP13
Fruit Wt	76	88	73
Brix	5.42	5.46	5.00
JB	14.53	16.36	15.03
PPB	4.63	5.60	4.19
pH	4.13	4.19	4.20
A/B	2.23	2.25	2.22
Ostwald	563	401	386

Dice Report Card

Recovery Retention Integrity

Undesirable Undesirable Undesirable

Optimal Harvest Date

July 1st → Aug 1st

Comparable Varieties

BP13 BQ413

2019 Adaptive Trial

6 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
BP51	50.7	5.87	1.6	3.5	21.8	4.40
BQ273	48.2	5.54	1.5	1.1	21.5	4.36

2018	GT Data	2019
Vs. BQ273	BP51	Vs. BQ273
-4.49	Tons/Ac Difference	-6.70
4	Locations	2

2019 Season Review

NB63

VFFNP_{tsw}



Days: 116

Semi-Commercial Variety

Early

F3 | | Early Peeler

2019 AgSeeds Lab

34 Locations

Variety	BQ413	NB63	BP13
Fruit Wt	76	72	73
Brix	5.07	5.31	5.00
JB	13.65	15.45	15.03
PPB	3.60	4.91	4.19
pH	4.28	4.24	4.20
A/B	2.25	2.31	2.22
Ostwald	455	369	386

Dice Report Card

Recovery	Retention	Integrity
Undesirable	Desirable	Average

Optimal Harvest Date

July 20th → Aug 30th

Comparable Varieties

BP13 BQ413

2019 Adaptive Trial

3 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
NB63	51.6	5.03	2.0	4.9	21.4	4.57
DRI319	50.1	5.68	4.5	4.3	22.7	4.52

2019 Adaptive Trial

2 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6428	59.9	4.60	0.7	0.5	22.2	4.46
NB63	52.4	4.70	1.9	3.2	20.6	4.56



THIN VARIETIES

Thin Varieties

16.3% of Total Market

PTAB Loads: 71,946

PPB: ≥ 5.00

**Loads Decreased
13.2%**

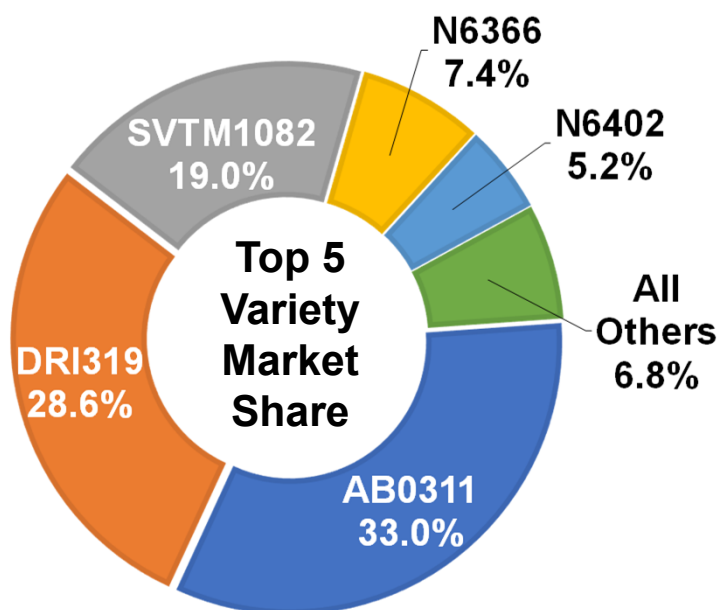
— Vs. 2018 —

**Solids Increased
0.07**

Thin Pack Timeline

% Packed: 21 Day Intervals

Class	27-Jul	17-Aug	7-Sep	28-Sep
Thin	10.7%	40.7%	70.4%	92.1%



Class Market Share

By Region

Class	North	Central	South	Coast
Thin	13.0%	27.4%	13.6%	36.9%

2019 Season Review

BP43

VFFFN_Ptsw



Days: 122

Commercial Variety

Thin

F3 | | Harvest on Time

2019 AgSeeds Lab

34 Locations

Variety	DRI319	BP43	SVTM1082
Fruit Wt	84	80	68
Brix	5.65	5.50	5.61
JB	16.89	15.11	15.64
PPB	6.19	5.05	5.49
pH	4.11	4.15	4.09
A/B	2.18	2.28	2.14
Ostwald	357	405	464

Dice Report Card

Recovery Retention Integrity

Average **Desirable** **Undesirable**

Optimal Harvest Date

July 20th → **Aug 30th**

Comparable Varieties

DRI319 **SVTM1082**

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
DRI319	20,550	5.65	1.8	2.0	21.3	4.40
BP43	101	4.93	1.2	0.7	20.5	4.42
SVTM1082	13,660	5.50	1.3	1.6	21.4	4.38

2019 Season Review

SVTM9011

VFFNP_{tsw}



Days: 122

Semi-Commercial Variety

Thin

Great Peeler | | High Brix

2019 AgSeeds Lab

34 Locations

Variety	AB0311	SVTM9011	SVTM1082
Fruit Wt	82	83	68
Brix	5.76	5.76	5.61
JB	16.09	15.72	15.64
PPB	5.97	5.77	5.49
pH	4.11	4.12	4.09
A/B	2.24	2.24	2.14
Ostwald	398	414	464

Dice Report Card

Recovery	Retention	Integrity
Undesirable	Desirable	Desirable

Optimal Harvest Date

July 20th → **Sept 1st**

Comparable Varieties

AB0311 **SVTM1082**

2019 Adaptive Trial

8 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9011	52.2	6.04	1.7	3.1	21.1	4.40
DRI319	51.8	5.95	2.2	3.8	22.2	4.43

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
AB0311	23,733	5.71	2.1	1.9	20.7	4.41
SVTM9011	1,702	5.56	2.4	1.6	20.7	4.43
SVTM1082	13,660	5.50	1.3	1.6	21.4	4.38

2019 Season Review

SVTM9012

VFFNP_{tsw}



Days: 122

Semi-Commercial Variety

Thin

Great Peeler | | High Brix

2019 AgSeeds Lab

34 Locations

Variety	AB0311	SVTM9012	SVTM1082
Fruit Wt	82	84	68
Brix	5.76	5.75	5.61
JB	16.09	16.19	15.64
PPB	5.97	5.99	5.49
pH	4.11	4.11	4.09
A/B	2.24	2.22	2.14
Ostwald	398	408	464

Dice Report Card

Recovery	Retention	Integrity
Undesirable	Desirable	Average

Optimal Harvest Date

July 20th → **Sept 1st**

Comparable Varieties

AB0311 **SVTM1082**

2019 Adaptive Trial

2 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9012	51.2	5.55	0.9	6.4	21.0	4.53
DRI319	47.2	5.79	2.5	5.9	22.6	4.46

2019 Adaptive Trial

1 Location

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6428	59.0	4.80	0.8	0.0	21.8	4.41
SVTM9012	55.9	5.50	2.5	1.0	20.5	4.39

2019 Season Review





INTERMEDIATE VARIETIES

Intermediate Varieties

23.7% of Total Market

PTAB Loads: 105,043

PPB: 3.31 to 4.99

**Loads Decreased
2.2%**

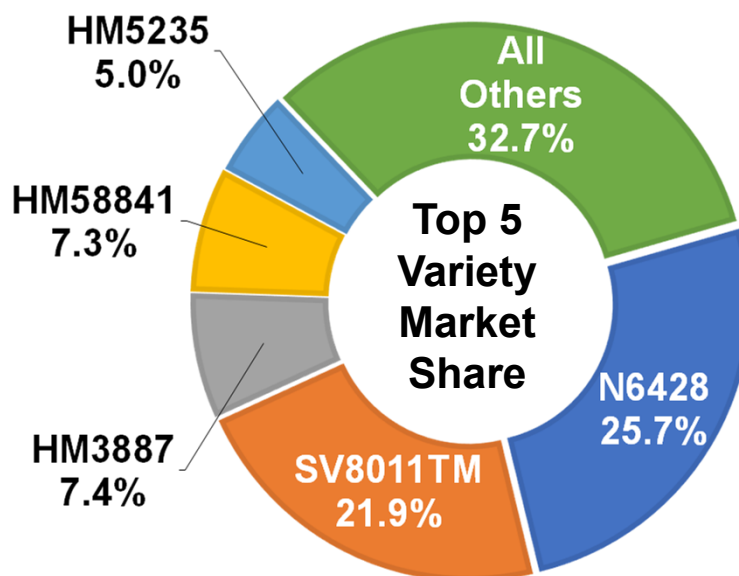
— Vs. 2018 —

**Solids Increased
0.07**

Inter Pack Timeline

% Packed: 21 Day Intervals

Class	27-Jul	17-Aug	7-Sep	28-Sep
Inter	4.2%	26.3%	61.3%	87.5%



Class Market Share

By Region

Class	North	Central	South	Coast
Inter	37.2%	22.6%	16.9%	24.3%

2019 Season Review

HM5522

VFFNtswFr



Days: 122

Commercial Variety

Intermediate

Great Peeler | | High Brix

2019 AgSeeds Lab

34 Locations

Variety	AB0311	HM5522	HM3887
Fruit Wt	82	77	90
Brix	5.76	5.65	5.50
JB	16.09	13.44	14.51
PPB	5.97	4.45	4.75
pH	4.11	4.11	4.15
A/B	2.24	2.28	2.24
Ostwald	398	445	279

Dice Report Card

Recovery	Retention	Integrity
Average	Desirable	Desirable

Optimal Harvest Date

July 20th → **Sept 1st**

Comparable Varieties

AB0311 **HM4909**

2019 Adaptive Trial

5 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
HM5522	58.5	5.83	1.2	0.2	19.3	4.42
DRI319	53.0	5.83	1.5	3.6	21.0	4.47

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
AB0311	23,733	5.71	2.1	1.9	20.7	4.41
HM5522	1,284	5.62	1.3	0.7	20.2	4.37
HM4909	3,772	5.42	1.8	0.7	22.1	4.30

2019 Season Review

HM4521

VFFNP_{tsw}*



Days: 125

Commercial Variety

Intermediate

Strong EFH | | Superior Yield

2019 AgSeeds Lab

34 Locations

Variety	SV8011TM	HM4521	HM58841
Fruit Wt	88	80	79
Brix	5.37	5.31	5.41
JB	12.84	13.05	12.07
PPB	3.69	3.70	3.35
pH	4.14	4.15	4.16
A/B	2.23	2.17	2.12
Ostwald	557	434	524

Dice Report Card

Recovery Retention Integrity

Average **Undesirable** **Average**

Optimal Harvest Date

Aug 1st → **Oct 1st**

Comparable Varieties

UG19406 SV8011TM

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
SV8011TM	23,050	5.20	2.1	1.1	20.7	4.45
HM4521	2,458	5.16	0.7	0.5	21.2	4.40
UG19406	4,016	5.19	1.5	0.6	21.3	4.32

2019 Season Review

N6441

VFFFNtsw*

nunhems

Days: 126

Commercial Variety

Intermediate

Good EFH | | Sub Skin Color

2019 AgSeeds Lab

34 Locations

Variety	H1310	N6441	N6428
Fruit Wt	72	77	78
Brix	5.02	5.22	5.14
JB	12.12	13.16	13.26
PPB	2.76	3.61	3.53
pH	4.20	4.20	4.19
A/B	2.24	2.18	2.15
Ostwald	631	415	491

Dice Report Card

Recovery Retention Integrity

Desirable Undesirable Desirable

Optimal Harvest Date

Aug 1st → Sept 20th

Comparable Varieties

N6428

H1310

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
H1310	8,491	5.02	3.0	0.8	21.3	4.50
N6441	2,012	5.05	2.1	0.7	21.0	4.52
N6428	26,976	4.93	1.9	1.3	21.8	4.49

2019 Season Review

SVTM9013

VFFNP_{tsw}



Days: 123

Semi-Commercial Variety

Intermediate

Great Peeler | | High Yield

2019 AgSeeds Lab

34 Locations

Variety	SV8011TM	SVTM9013	N6428
Fruit Wt	88	89	78
Brix	5.37	5.27	5.14
JB	12.84	12.38	13.26
PPB	3.69	3.31	3.53
pH	4.14	4.13	4.19
A/B	2.23	2.21	2.15
Ostwald	557	524	491

Dice Report Card

Recovery	Retention	Integrity
Desirable	Average	Desirable

Optimal Harvest Date

Aug 1st → **Sept 10th**

Comparable Varieties

SV8011TM **N6428**

2019 Adaptive Trial

17 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6428	57.1	4.93	1.8	1.1	21.6	4.49
SVTM9013	56.1	5.17	2.5	0.8	20.9	4.46

2019 Adaptive Trial

11 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9013	55.2	5.39	1.6	1.2	20.5	4.42
DRI319	50.7	5.82	2.3	3.5	21.8	4.43

2019 Season Review

SVTM9014

VFFNP_{tsw}



Days: 123

Semi-Commercial Variety

Intermediate

Great Peeler | | High Yield

2019 AgSeeds Lab

34 Locations

Variety	SV8011TM	SVTM9014	N6428
Fruit Wt	88	85	78
Brix	5.37	5.33	5.14
JB	12.84	12.27	13.26
PPB	3.69	3.34	3.53
pH	4.14	4.15	4.19
A/B	2.23	2.22	2.15
Ostwald	557	605	491

Dice Report Card

Recovery	Retention	Integrity
Desirable	Desirable	Desirable

Optimal Harvest Date

Aug 1st → **Sept 10th**

Comparable Varieties

SV8011TM **N6428**

2019 Adaptive Trial

16 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6428	57.8	4.90	1.8	1.1	21.7	4.49
SVTM9014	56.2	5.10	2.7	1.2	20.9	4.45

2019 Adaptive Trial

11 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9014	54.5	5.35	1.4	0.9	20.5	4.44
DRI319	50.7	5.82	2.3	3.5	21.8	4.43

2019 Season Review

N6460

VFFFNtsw*

nunhems

Days: 125

Semi-Commercial Variety

Intermediate

| Moderate EFH |

2019 AgSeeds Lab

34 Locations

Variety	N6434	N6460	N6428
Fruit Wt	80	75	78
Brix	5.28	5.28	5.14
JB	14.01	13.87	13.26
PPB	4.13	4.06	3.53
pH	4.18	4.18	4.19
A/B	2.12	2.20	2.15
Ostwald	473	441	491

Dice Report Card

Recovery Retention Integrity

Desirable Undesirable Undesirable

Optimal Harvest Date

Aug 1st → Sept 20th

Comparable Varieties

N6428

N6434

2019 Adaptive Trial

12 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6428	52.8	5.04	1.8	1.2	21.6	4.49
N6460	49.3	5.23	1.3	1.1	21.9	4.48

2019 Adaptive Trial

8 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6460	68.3	4.96	0.5	0.4	21.1	4.47
H1428	59.9	4.96	0.7	0.5	20.2	4.43

2019 Season Review

BP47

VFFNPtsw



Days: 122

Semi-Commercial Variety

Intermediate

High Yield | | Strong Vine

2019 AgSeeds Lab

34 Locations

Variety	HM3887	BP47	N6428
Fruit Wt	90	80	78
Brix	5.50	5.44	5.14
JB	14.51	14.66	13.26
PPB	4.75	4.72	3.53
pH	4.15	4.11	4.19
A/B	2.24	2.14	2.15
Ostwald	279	444	491

Dice Report Card

Recovery Retention Integrity

Desirable Undesirable Undesirable

Optimal Harvest Date

July 20th → Aug 30th

Comparable Varieties

N6428

HM3887

2019 Adaptive Trial

6 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6428	58.6	4.76	2.3	0.9	21.8	4.51
BP47	58.0	5.08	1.3	1.6	22.5	4.36

2019 Adaptive Trial

6 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
BP47	52.4	5.83	0.7	1.8	22.1	4.37
DRI319	47.8	5.98	2.1	4.8	22.5	4.44

2019 Season Review

NB23

VFFNP_{tsw}



Days: 122

Semi-Commercial Variety

Intermediate

Good Peeler | | High Brix

2019 AgSeeds Lab

33 Locations

Variety	DRI319	NB23	SVTM1082
Fruit Wt	84	71	68
Brix	5.63	5.72	5.59
JB	16.92	13.55	15.66
PPB	6.16	4.62	5.47
pH	4.12	4.17	4.09
A/B	2.18	2.19	2.14
Ostwald	357	485	464

Dice Report Card

Recovery	Retention	Integrity
Average	Desirable	Average

Optimal Harvest Date

July 20th → Aug 30th

Comparable Varieties

DRI319 SVTM1082

2019 Adaptive Trial

2 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
NB23	47.8	5.74	1.8	4.1	21.2	4.51
DRI319	47.2	5.79	2.5	5.9	22.6	4.46

2018	GT Data	2019
Vs. N6428	NB23	Vs. N6428
-6.62	Tons/Ac Difference	-9.68
5	Locations	2



THICK VARIETIES

Thick Varieties

43.1% of Total Market

PTAB Loads: 190,651

PPB: ≤ 3.30

**Loads Increased
0.6%**

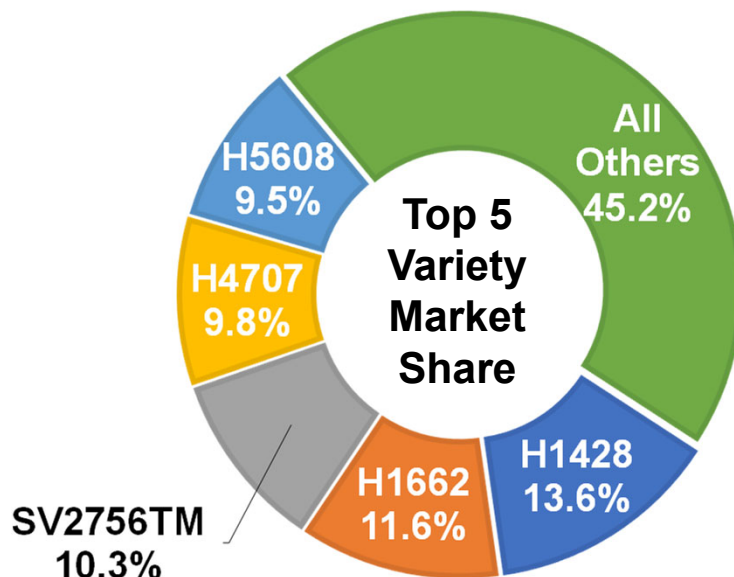
— Vs. 2018 —

**Solids Increased
0.09**

Thick Pack Timeline

% Packed: 21 Day Intervals

Class	27-Jul	17-Aug	7-Sep	28-Sep
Thick	4.9%	20.6%	50.1%	85.1%



Class Market Share

By Region

Class	North	Central	South	Coast
Thick	33.9%	42.8%	48.2%	38.8%

2019 Season Review

H1776

VFFNP_{tsw}*



Days: 122

Commercial Variety

Thick

Great Peeler | Brix | Ostwald

2019 AgSeeds Lab

34 Locations

Variety	H1428	H1776	N6415
Fruit Wt	57	80	75
Brix	5.10	5.33	5.03
JB	11.24	11.59	11.67
PPB	2.46	3.00	2.57
pH	4.12	4.10	4.12
A/B	2.27	2.22	2.19
Ostwald	856	851	613

Dice Report Card

Recovery	Retention	Integrity
Average	Desirable	Desirable

Optimal Harvest Date

July 20th → Sept 20th

Comparable Varieties

H1428 N6415

2019 Adaptive Trial

8 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
H1776	68.9	5.18	1.2	0.5	20.4	4.45
H1428	60.0	4.96	0.7	0.5	20.2	4.43

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
H1428	25,920	4.92	1.4	0.6	20.6	4.45
H1776	1,755	5.16	1.5	0.6	21.3	4.44
N6415	10,385	4.96	1.6	1.1	21.1	4.43

2019 Season Review

SVTM9007

VFFNP_{tsw}



Days: 124

Commercial Variety

Thick

Strong Vine | | Ostwald

2019 AgSeeds Lab

34 Locations

Variety	H1428	SVTM9007	N6415
Fruit Wt	57	65	75
Brix	5.10	5.08	5.03
JB	11.24	11.36	11.67
PPB	2.46	2.47	2.57
pH	4.12	4.19	4.12
A/B	2.27	2.22	2.19
Ostwald	856	864	613

Optimal Harvest Date

**July
20th**



**Sept
1st**

Comparable Varieties

H1428

N6415

2019 Adaptive Trial

5 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
H1428	60.5	5.06	0.7	0.6	20.4	4.41
SVTM9007	59.1	5.02	0.8	0.6	21.0	4.53

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
H1428	25,920	4.92	1.4	0.6	20.6	4.45
SVTM9007	2,124	4.91	1.4	1.4	21.7	4.55
N6415	10,385	4.96	1.6	1.1	21.1	4.43

2019 Season Review

SVTM9008

VFFNP_{tsw}*



Days: 125

Commercial Variety

Thick

Good EFH | | Ostwald

2019 AgSeeds Lab

34 Locations

Variety	H1428	SVTM9008	HM4885
Fruit Wt	57	78	80
Brix	5.10	5.28	5.11
JB	11.24	12.15	12.08
PPB	2.46	3.20	2.88
pH	4.12	4.07	4.10
A/B	2.27	2.17	2.23
Ostwald	856	728	732

Dice Report Card

Recovery	Retention	Integrity
Average	Desirable	Average

Optimal Harvest Date

Aug 1st → Sept 20th

Comparable Varieties

HM4885 SV2756TM

2019 Adaptive Trial

8 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9008	63.6	5.17	0.6	0.3	20.5	4.32
H1428	58.6	4.93	0.7	0.5	20.1	4.41

2019 PTAB Grades

Final PTAB

Variety	# of Loads	Brix	Mold	LU	Color	pH
SV2756TM	19,657	4.87	1.7	0.7	21.1	4.51
SVTM9008	2,455	5.24	1.5	0.4	20.5	4.35
HM4885	8,836	5.05	1.6	0.9	21.0	4.39

2019 Season Review

SVTM9016

VFFNPtsw*



Days: 128

Semi-Commercial Variety

Thick

Superior Yield | | Strong EFH

2019 AgSeeds Lab

34 Locations

Variety	H1662	SVTM9016	H1662
Fruit Wt	77	84	77
Brix	5.20	5.23	5.20
JB	11.46	12.22	11.46
PPB	2.74	3.16	2.74
pH	4.14	4.10	4.14
A/B	2.16	2.11	2.16
Ostwald	882	567	882

Dice Report Card

Recovery Retention Integrity

Average Undesirable Undesirable

Optimal Harvest Date

Aug
1st



Oct
1st

Comparable Varieties

H1662

N6428

2019 Adaptive Trial

4 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9016	56.9	5.01	2.3	0.3	21.0	4.31
N6428	50.3	4.83	1.9	0.3	21.4	4.43

2019 Adaptive Trial

7 Locations

Variety	Tons/Ac	Brix	Mold	LU	Color	pH
SVTM9016	68.5	4.91	1.1	0.3	21.6	4.36
H1428	59.0	4.72	0.6	0.5	20.2	4.41



PEAR VARIETIES

Pear Varieties

3.3% of Total Market

PTAB Loads: 14,503

Pear Shape

Loads Decreased
12.3%

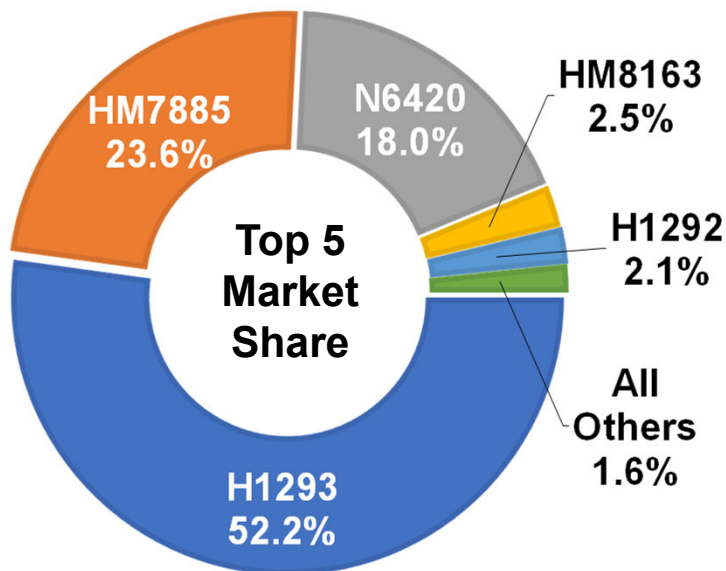
— **Vs. 2018** —

Solids Decreased
0.07

Pear Pack Timeline

% Packed: 21 Day Intervals

Class	27-Jul	17-Aug	7-Sep	28-Sep
Pear	11.7%	43.1%	70.7%	97.7%



Class Market Share

By Region

Class	North	Central	South	Coast
Pear	2.2%	4.2%	3.5%	0.0%

2019 Season Review

HM8163

VFFN_{tsw}



Days: 122

Commercial Variety

Pear

| High Brix |

2019 AgSeeds Lab		33 Locations	
Variety	H1293	HM8163	N6420
Fruit Wt	61	73	81
Brix	5.46	5.65	4.90
JB	14.98	13.09	15.42
PPB	4.91	4.29	4.21
pH	4.29	4.22	4.23
A/B	2.27	2.28	2.18
Ostwald	486	384	305

Optimal Harvest Date

Aug 1st  Sept 15th

Comparable Varieties

H1293 N6420

2019 Adaptive Trial						3 Locations
Variety	Tons/Ac	Brix	Mold	LU	Color	pH
HM8163	42.9	5.52	0.7	1.3	20.5	4.44
N6420	42.8	5.00	0.8	0.5	20.8	4.47
H1293	37.9	5.70	1.1	0.3	20.3	4.53

2019 PTAB Grades						Final PTAB
Variety	# of Loads	Brix	Mold	LU	Color	pH
H1293	7,628	5.37	1.1	1.5	20.5	4.56
HM8163	360	5.88	1.2	2.5	20.9	4.52
N6420	2,637	4.86	2.1	1.4	21.4	4.53

2019 Season Review

HM5369

VFFN_{tsw}



Days: 124

Semi-Commercial Variety

Pear

| Very Firm |

2019 AgSeeds Lab		34 Locations	
Variety	H1293	HM5369	N6420
Fruit Wt	61	77	82
Brix	5.47	5.21	4.90
JB	15.00	13.66	15.39
PPB	4.95	3.84	4.20
pH	4.29	4.29	4.23
A/B	2.27	2.18	2.19
Ostwald	487	334	304

Optimal Harvest Date

July
30th



Sept
1st

Comparable Varieties

H1293

N6420

2019 Adaptive Trial						3 Locations
Variety	Tons/Ac	Brix	Mold	LU	Color	pH
N6420	42.8	5.00	0.8	0.5	20.8	4.47
HM5369	38.3	5.43	0.6	0.8	21.7	4.53
H1293	37.9	5.70	1.1	0.3	20.3	4.53

2019 PTAB Grades						Final PTAB
Variety	# of Loads	Brix	Mold	LU	Color	pH
H1293	7,628	5.37	1.1	1.5	20.5	4.56
HM5369	66	5.41	1.5	1.1	21.9	4.62
N6420	2,637	4.86	2.1	1.4	21.4	4.53