

2020

Season Highlights

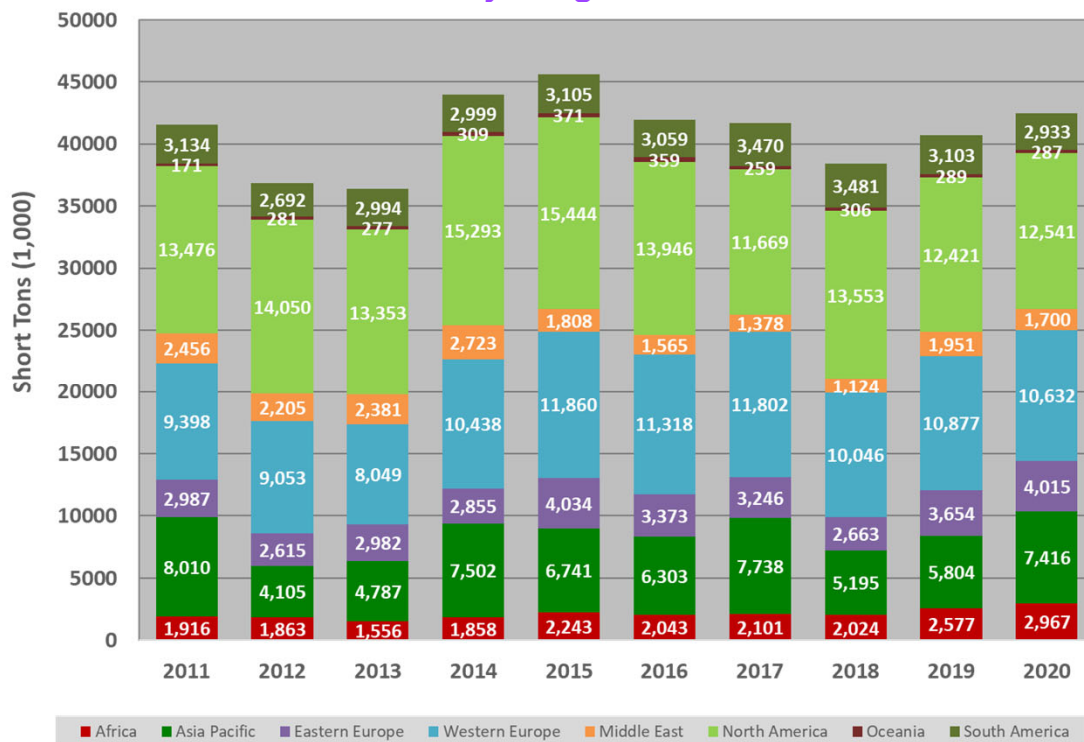


2020 Season Review

2020 Season Review

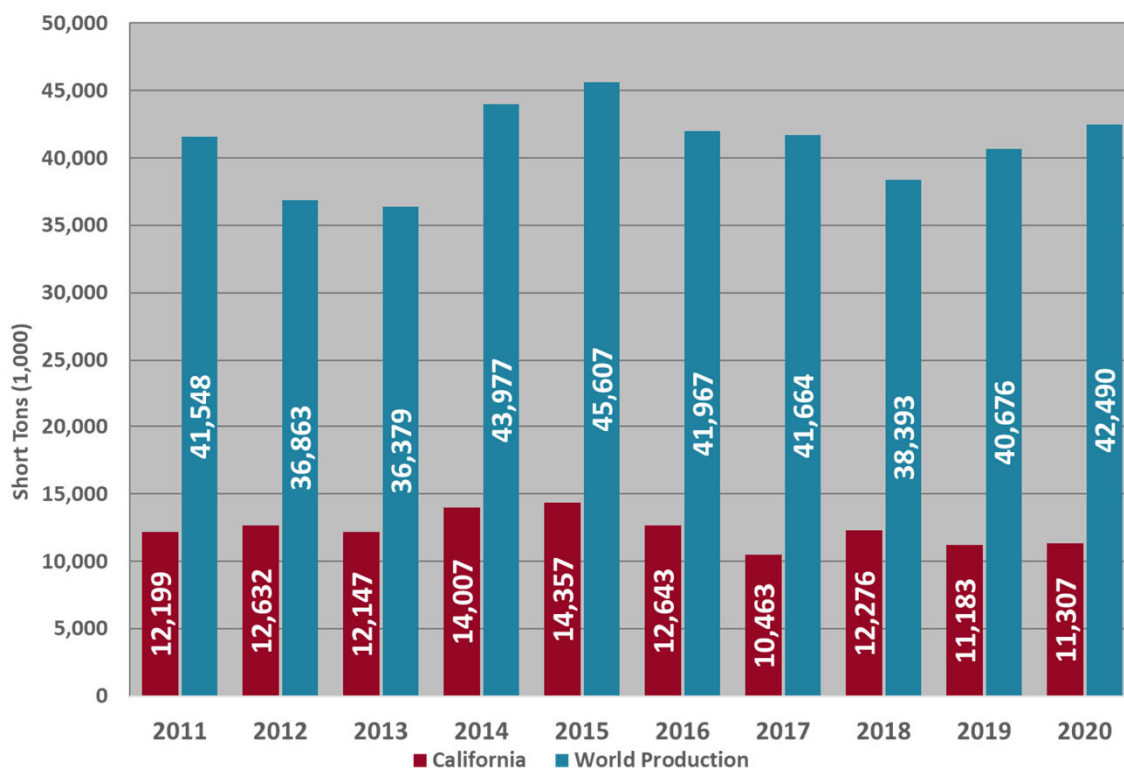
World Production History

Short Tons by Region: 2011-2020



California vs World Production

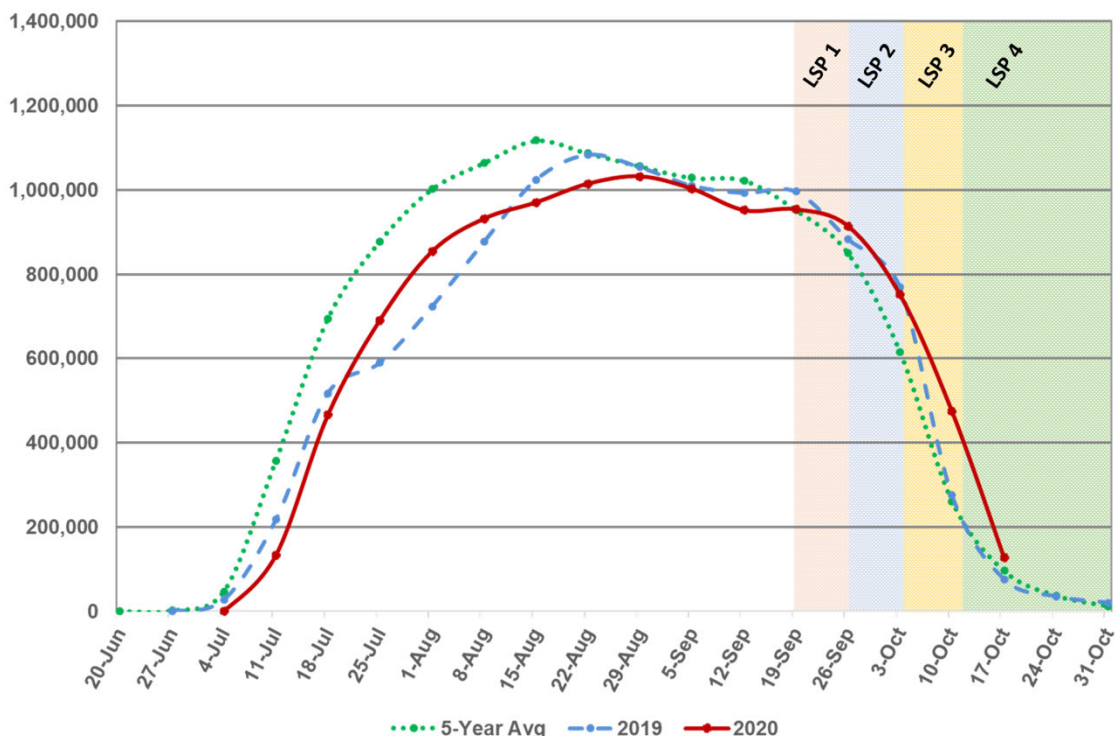
Short Tons: 2011-2020



2020 Season Review

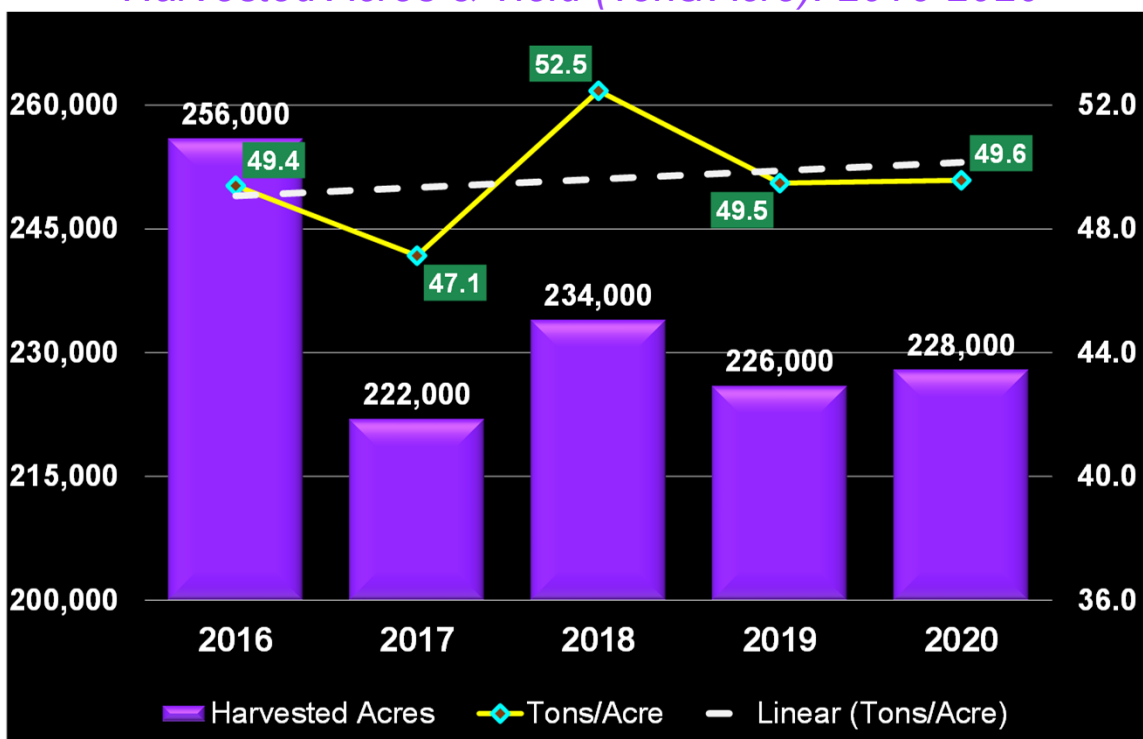
California Processing Tomato Harvest

Tons per Week – 2019-2020 & 5 Year Average



California Processing Tomato Harvest

Harvested Acres & Yield (Tons/Acre): 2016-2020

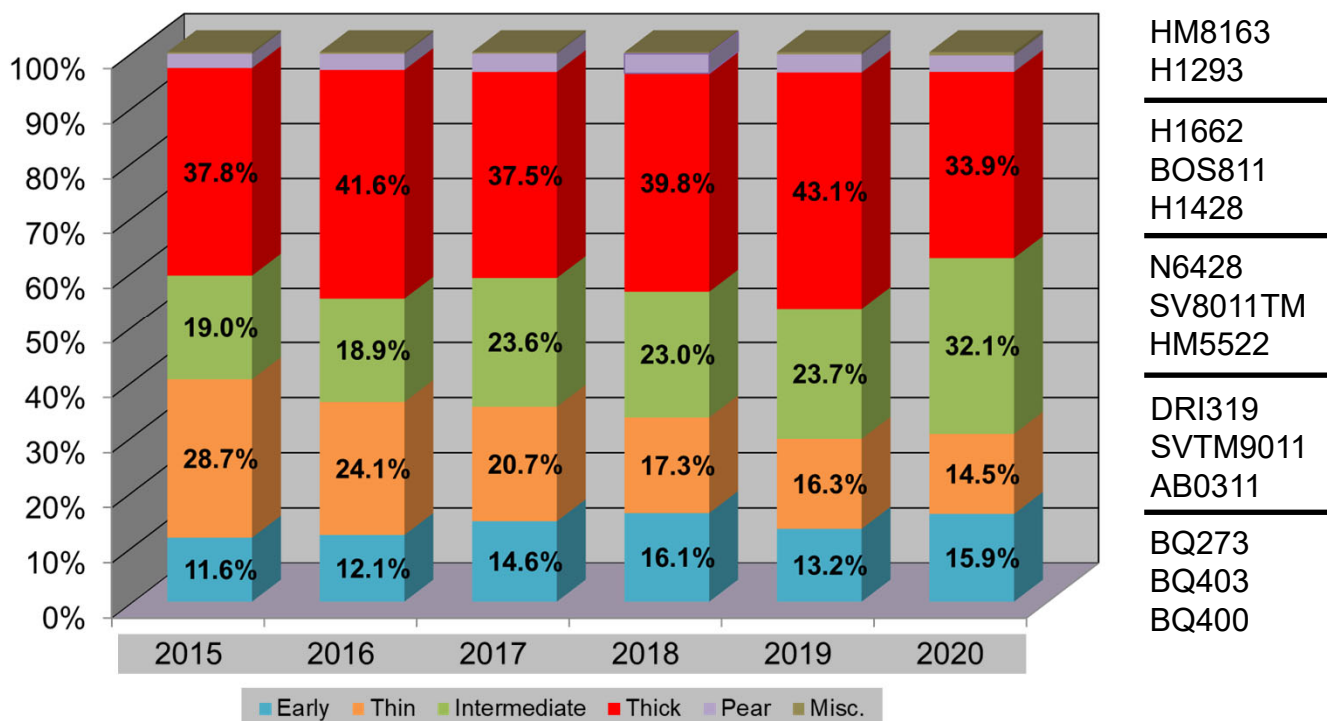


2020 Season Review

AgSeeds Unlimited Use Category Descriptions

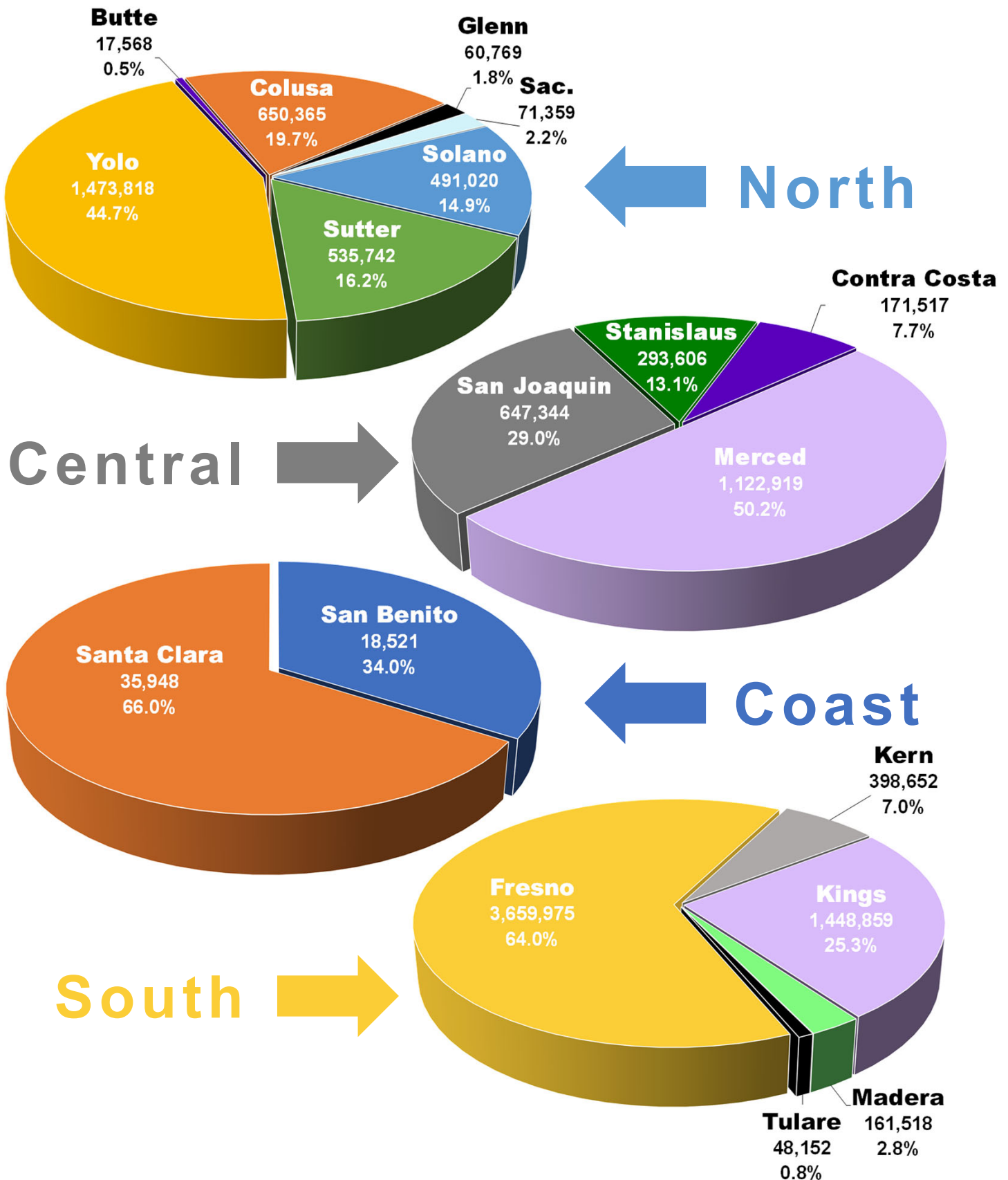


Market Share by Class 2015 - 2020



Region Production

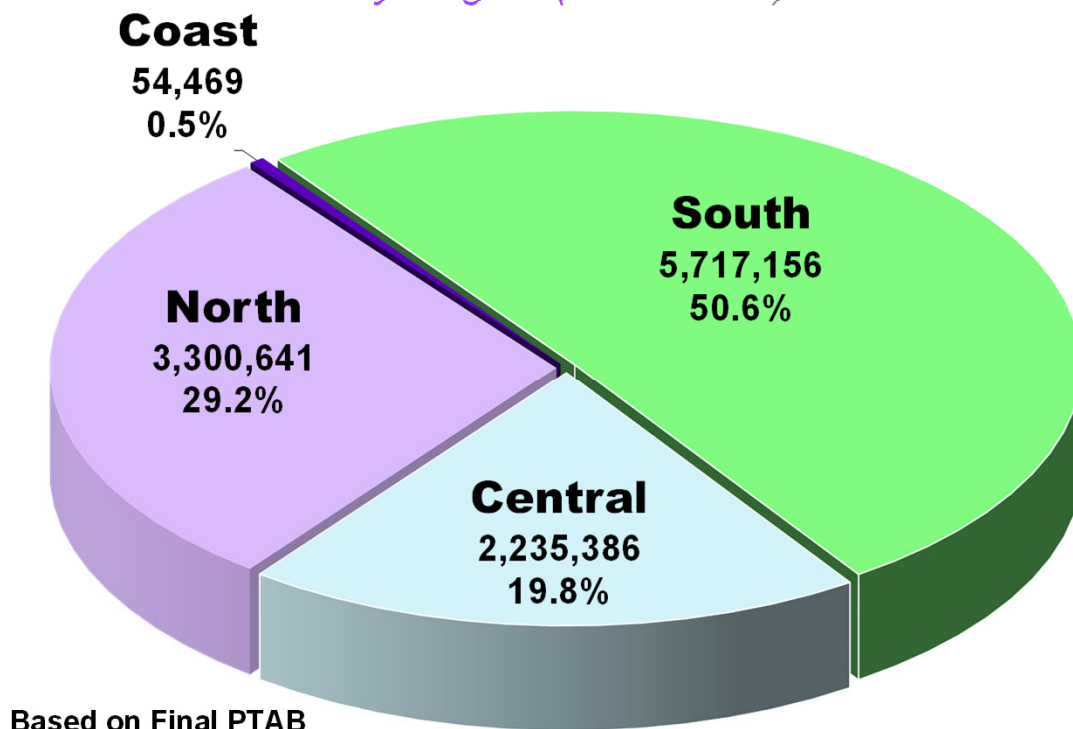
North, Central, Coast & South Final Tons



2020 Season Review

California Production

By Region (Short Tons)



Class Pack Timeline

% Packed - 21 Day Intervals

Final PTAB Report

Class	25-Jul	15-Aug	5-Sep	26-Sep	Loads
Early	47.4%	92.4%	97.0%	99.4%	70,253
Thin	9.6%	38.1%	70.0%	92.4%	64,466
Inter	2.5%	26.6%	61.2%	83.0%	142,280
Thick	2.9%	14.6%	41.5%	83.0%	149,796
Pear	9.0%	38.6%	78.4%	98.4%	13,399
Total Pack	11.0%	35.0%	62.0%	87.4%	442,120

2020 Season Review

2020 vs 2011 PTAB Top 15 Varieties

Age for Respective Year & Rank Movement from Previous Year

2020

Variety	Loads	Age	Movement
N6428	43,534	4	0
BQ273	24,279	6	+1
H1662	23,619	3	+3
SV8011TM	21,489	5	+1
DRI319	15,402	10	+2
BOS811	14,682	3	+17
SVTM9011	14,285	1	+43
H1428	14,195	5	-6
H4707	13,348	12	0
BQ403	13,289	4	+5
AB0311	13,194	10	-7
BQ400	12,103	4	+2
HM5522	11,518	2	+41
H5608	11,066	11	-4
H2401	9,630	18	-4
Total	255,633	6.5	Average

% of Pack: 57.8%

2011

Variety	Loads	Age	Movement
N6366	87,701	7	0
H8504	63,390	6	0
AB2	37,402	9	0
H2401	34,816	9	0
H9780	29,032	13	0
H9663	15,609	13	+1
CXD187	12,093	14	+4
H3402	11,747	1	+34
H4707	11,660	3	+1
N6368	9,941	6	+3
CXD255	9,671	5	-3
H5608	9,067	2	+22
APT410	8,754	14	-1
AB3	7,718	2	+2
H8004	7,175	6	-9
Total	355,776	7.3	Average

% of Pack: 76.8%

PTAB Variety Movement

Change from 2019

Top 15 Increase

Variety	Loads	% Gained
N6428	16,558	61%
SVTM9011	12,583	739%
HM5522	10,234	797%
BOS811	9,156	166%
SVTM9016	8,476	-
SVTM9013	6,318	1,319%
SVTM9008	6,281	256%
SVTM9014	5,184	1,481%
HM8163	4,251	1,181%
BQ403	3,673	38%
HM5235	3,570	68%
HM4521	3,346	136%
HM58801	2,555	193%
BQ400	2,468	26%
BP43	2,177	2,155%
Total	96,830	143.3%

* Must have over 100 loads in 2019

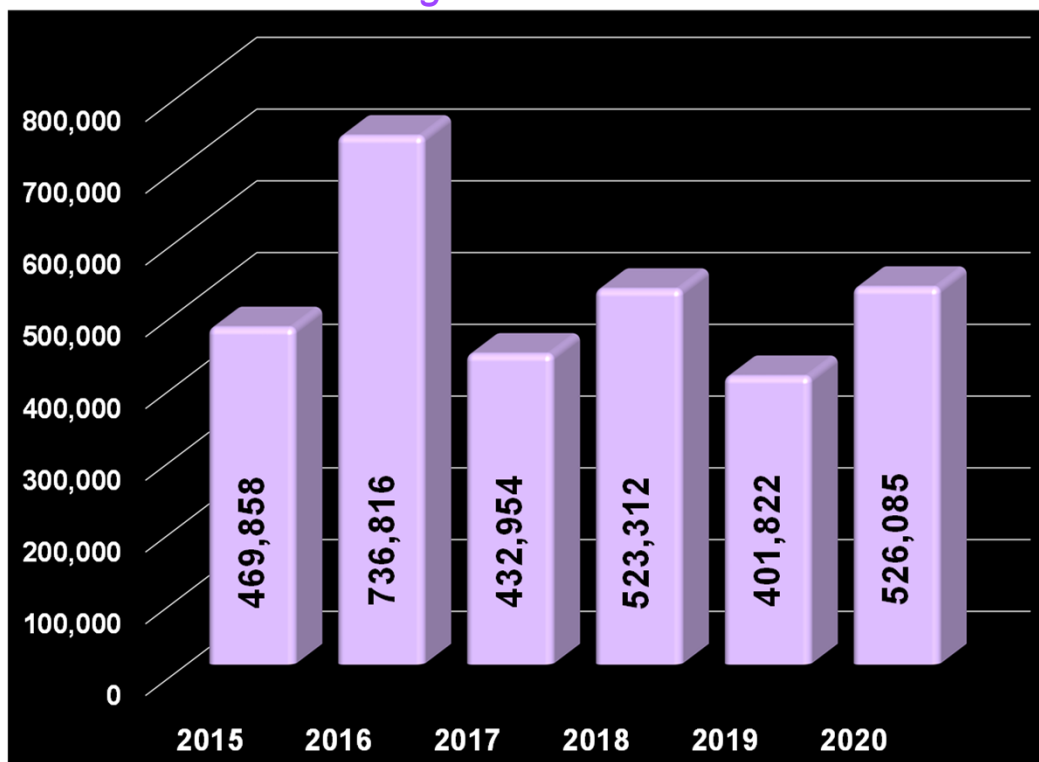
Top 15 Decrease

Variety	Loads	% Lost
H1428	-11,725	45%
SV2756TM	-11,690	59%
SVTM1082	-10,785	79%
AB0311	-10,539	44%
N6415	-8,646	83%
H5608	-6,997	39%
H5702	-6,934	86%
H1310	-6,252	74%
H4707	-5,316	28%
DRI319	-5,148	25%
H2401	-4,256	31%
H1293	-3,833	50%
HM4885	-3,225	36%
N6426	-2,521	45%
HM3887	-2,344	30%
Total	-100,211	47.5%

2020 Season Review

California Production

Historical Organic Tons: 2015 - 2020



California Production

Organic Tons by Region: 2019 & 2020

% State	County	2019	2020
North	Colusa	2,323	-
	Sutter	25,373	20,630
	Yolo	83,893	74,728
18.1%	Total	111,589	95,358
Central	Merced	28,480	26,985
	San Joaquin	3,763	8,993
	Stanislaus	1,331	3,915
7.6%	Total	33,574	39,893
South	Fresno	209,095	223,352
	Kern	25,602	103,208
	Kings	21,962	64,274
74.3%	Total	256,659	390,834
Organic Total		401,822	526,085
Market Share of CA		3.59%	4.65%

2020 Season Review

Supplier Historical Market Share 2016 - 2020

Final PTAB Report

Supplier	2016	2017	2018	2019	2020	Varieties
Seminis	17.0%	19.5%	23.2%	25.0%	25.2%	23
Heinz	31.4%	27.1%	30.3%	31.6%	20.9%	25
Harris Moran	19.6%	22.8%	13.8%	12.3%	16.2%	23
Nunhems	21.7%	16.8%	16.2%	15.0%	15.9%	17
Syngenta	4.7%	8.7%	12.1%	11.1%	12.7%	13
Orsetti	0.1%	0.0%	0.5%	1.3%	3.4%	7
United Genetics	3.6%	3.0%	2.7%	2.6%	3.0%	12
BHN	1.4%	1.6%	0.8%	0.7%	1.9%	12
Others	0.7%	0.5%	0.4%	0.4%	0.8%	14

Supplier Market Share Use Category

Final PTAB Report

Supplier	Early	Viscosity			Pear	F3	EFS™ EFH	Total
		Thin	Inter	Thick				
Seminis	3.8%	73.5%	23.8%	18.2%	0.3%	27.9%	13.5%	25.2%
Heinz	3.7%	0.1%	-	57.4%	29.2%	19.3%	26.9%	20.9%
Harris Moran	3.1%	1.1%	36.5%	6.3%	53.4%	8.8%	18.1%	16.2%
Nunhems	3.7%	18.7%	34.2%	3.2%	16.3%	33.6%	28.2%	15.9%
Syngenta	75.0%	0.3%	2.2%	0.1%	-	3.0%	-	12.7%
Orsetti	0.3%	0.0%	0.0%	10.0%	-	0.0%	7.7%	3.4%
United Genetics	2.3%	1.8%	2.5%	4.6%	-	0.9%	5.4%	3.0%
BHN	7.4%	3.8%	0.5%	0.1%	-	5.8%	0.2%	1.9%
Others	0.8%	0.8%	0.2%	0.1%	0.8%	0.6%	-	0.8%

2020 Season Review

Supplier Market Share

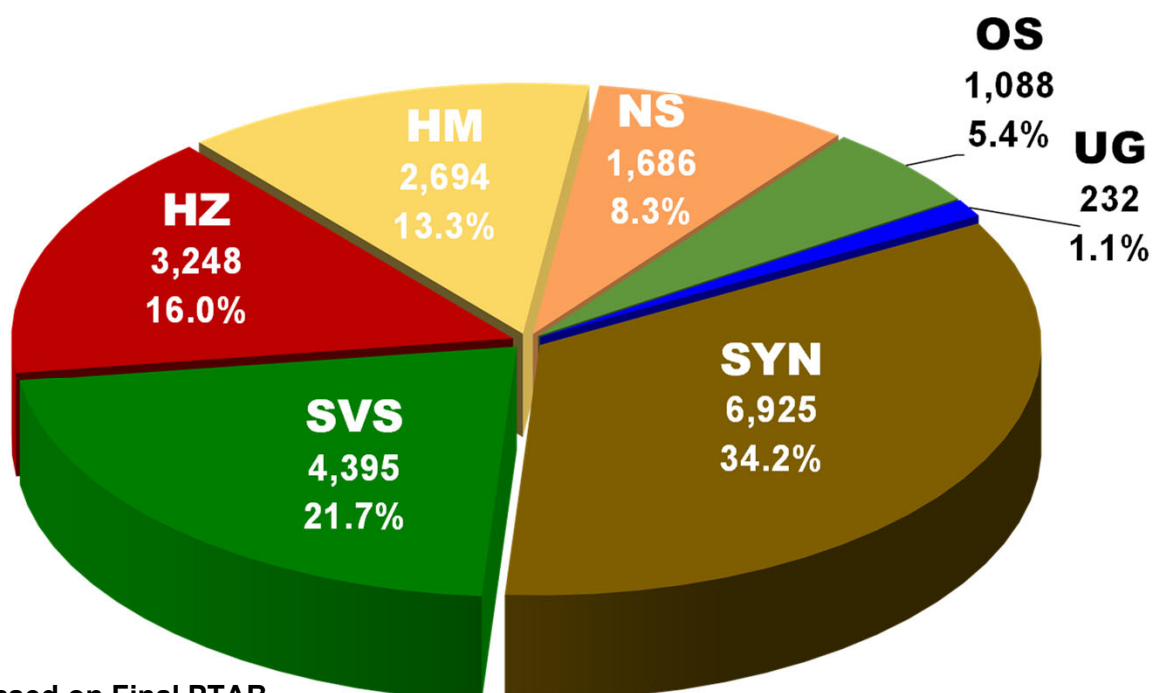
Regions

Final PTAB Report

Supplier	North	Central	South	Coast	Total
Seminis	19.7%	31.2%	26.2%	1.1%	25.2%
Heinz	23.5%	24.1%	18.4%	-	20.9%
Harris Moran	17.9%	20.2%	13.6%	20.7%	16.2%
Nunhems	25.6%	14.1%	10.7%	48.2%	15.9%
Syngenta	4.8%	3.5%	20.9%	11.9%	12.7%
Orsetti	1.3%	3.1%	4.7%	16.6%	3.4%
United Genetics	2.1%	0.7%	4.4%	1.4%	3.0%
BHN	4.5%	1.6%	0.5%	-	1.9%
Others	0.5%	1.4%	0.7%	0.2%	0.8%

Supplier Market Share

Organic Loads



2020

Varieties by Class

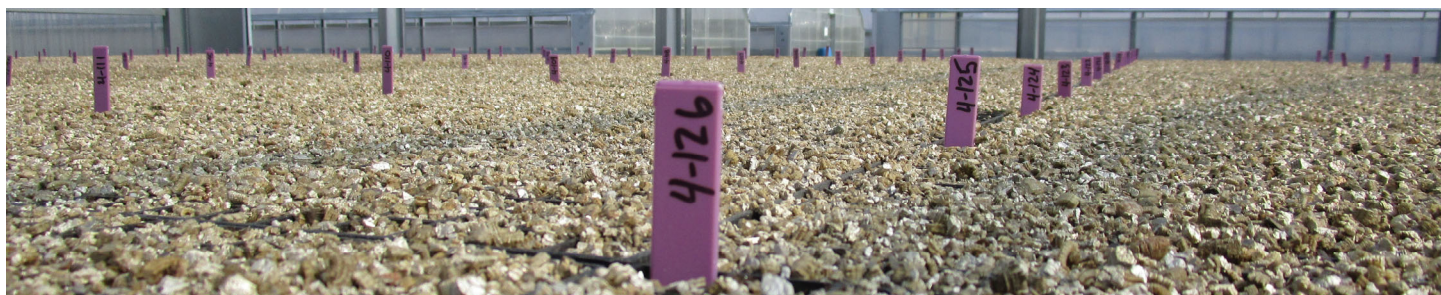


Trial Types

Total
240

Plot: 73 Locations

Chemistry & early indications of horticultural performance



GT: 45 Locations

First true test of yield and commercial viability



Adaptive: 62 Locations

Confirmation of commercial potential



Specialty: 60 Locations

Testing for chemistry, disease, paste and dice recovery

Early Varieties

15.9% of Total Market

PTAB Loads: 70,254

117 Days or Less

Loads **Increased**
20.0%

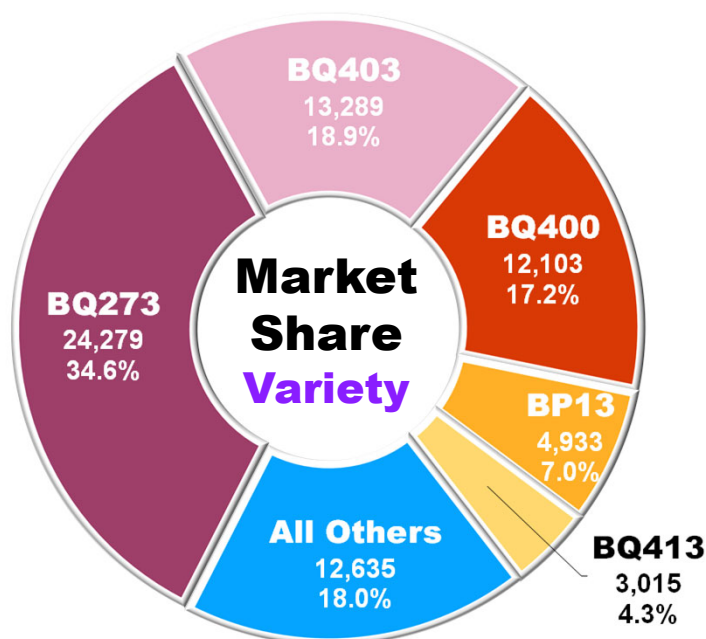
— Vs. 2019 —

Solids **Increased**
0.05

Early Pack Timeline

% Packed: 21 Day Intervals

Class	25-Jul	15-Aug	5-Sep	26-Sep
Early	47.4%	92.4%	97.0%	99.4%



Class Market Share *By Region*

Class	North	Central	South	Coast
Early	11.4%	2.9%	23.6%	13.1%

2020 Season Review

BP51

Disease: VFFFNptsw*

Days: 115

Early

Commercial Variety

EFH High Brix



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
BP13	73	4.87	15.09	4.01	2.22	390	4.15
BP51	91	5.31	16.75	5.55	2.27	411	4.14
BQ413	77	4.99	13.72	3.51	2.27	505	4.21

BQ273

BP51

Tier	Rank	Peel / Dice	Rank	Tier
Average	4	Recovery	8	Undesirable
Desirable	1	Retention	8	Undesirable

Optimal Harvest Date

July
1st



Aug
1st

Comparable Varieties

BP13

BQ413

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
BP13	4,933	4.86	0.4	1.6	21.6	3.4	4.38
BP51	255	5.84	0.3	2.9	21.8	1.3	4.34
BQ413	3,015	4.67	1.9	1.7	21.4	2.7	4.53

2020 Season Review

NB63

Disease: VFFFNPTsw

Days: 117

Early

Commercial Variety

Early Peeler

Great Color



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
BP13	73	4.87	15.09	4.01	2.22	390	4.15
NB63	76	5.25	15.38	4.77	2.33	403	4.23
BQ413	77	4.99	13.72	3.51	2.27	505	4.21

BQ273

NB63

Tier	Rank	Peel / Dice	Rank	Tier
Average	4	Recovery	5	Average
Desirable	1	Retention	4	Average
Desirable	2	Integrity	1	Desirable

Optimal Harvest Date

**July
20th**



**Aug
30th**

Comparable Varieties

BP13

BQ413

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
BP13	4,933	4.86	0.4	1.6	21.6	3.4	4.38
NB63	534	4.93	2.1	1.5	20.7	2.5	4.50
BQ413	3,015	4.67	1.9	1.7	21.4	2.7	4.53

2020 Season Review

Disease: VFFNPtswLv

Days: 115

SVTM9000

Early

Commercial Variety

Powdery Mildew

Ostwald



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
BQ273	80	5.10	14.29	3.98	2.21	500	4.10
SVTM9000	80	4.91	13.66	3.35	2.25	578	4.16
BQ400	74	5.09	13.78	3.70	2.28	505	4.11

Optimal Harvest Date

**July
20th**



**Aug
30th**

Comparable Varieties

BQ273

BQ400

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
BQ273	24,279	5.38	0.8	1.7	21.1	2.0	4.38
SVTM9000	2,566	5.05	0.4	0.5	20.9	0.8	4.42
BQ400	12,103	5.25	0.5	1.2	20.1	1.7	4.47

2020 Season Review

Disease: VFFFNtswFr

Days: 112

SVTM9018

Early

Semi-Commercial Variety

Crown Rot Heavy Crops



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
BP13	73	4.87	15.09	4.01	2.22	390	4.15
SVTM9018	70	4.99	17.14	5.22	2.22	317	4.11
BQ413	77	4.99	13.72	3.51	2.27	505	4.21

BQ273

SVTM9018

Tier	Rank	Peel / Dice	Rank	Tier
Average	4	Recovery	6	Average
Desirable	1	Retention	7	Average

Optimal Harvest Date

**July
20th**



**Aug
30th**

Comparable Varieties

BP13

BQ413

2020 Adaptives

8 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
SVTM9018	65.9	6.3%	4.91	0.1	0.7	21.3	0.7
BQ273	62.0	0.0%	5.40	0.3	0.7	20.9	1.3

2020 Season Review

Disease: VFFNtsw*

Days: 116

HM7103

Early

Semi-Commercial Variety

Early Brix

Yield Boost



2020 AgSeeds Lab

28 Locations

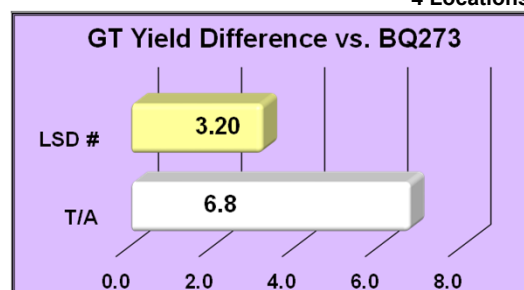
Variety	FW	Brix	JB	PPB	A/B	Ost	pH
BQ273	80	5.10	14.29	3.98	2.21	500	4.10
HM7103	77	5.42	16.74	5.72	2.22	347	4.19
BQ403	80	5.35	16.48	5.48	2.28	398	4.13

BQ273

HM7103

Tier	Rank	Peel / Dice	Rank	Tier
Average	4	Recovery	7	Average
Desirable	1	Retention	6	Average
Desirable	2	Integrity	3	Average

4 Locations



Optimal Harvest Date

**July
20th**



**Aug
30th**

Comparable Varieties

BQ273

BQ403

2020 Adaptives

2 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
HM7103	75.5	15.4%	5.49	0.1	1.3	20.6	0.3
BQ273	65.4	0.0%	5.35	0.0	0.9	21.2	0.8

2020 Season Review

Disease: VFFNPtsw*

Days: 117

UG4014

Early

Semi-Commercial Variety

Early Peeler

Great Color

United Genetics

2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
BQ273	80	5.10	14.29	3.98	2.21	500	4.10
UG4014	74	5.23	14.76	4.43	2.34	410	4.22
BQ400	74	5.09	13.78	3.70	2.28	505	4.11

BQ273

UG4014

Tier	Rank	Peel / Dice	Rank	Tier
Average	4	Recovery	1	Desirable
Desirable	1	Retention	3	Desirable
Desirable	2	Integrity	4	Average

Optimal Harvest Date

**July
20th**



**Aug
30th**

Comparable Varieties

BQ273

BQ400

2020 Adaptives

7 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
BQ273	62.3	0.0%	5.38	0.3	0.8	20.9	1.4
UG4014	59.6	-4.3%	5.32	0.2	0.3	20.0	1.6

Thin Varieties

14.5% of Total Market

PTAB Loads: 64,050

PPB: ≥ 4.70

Loads Decreased
11.0%

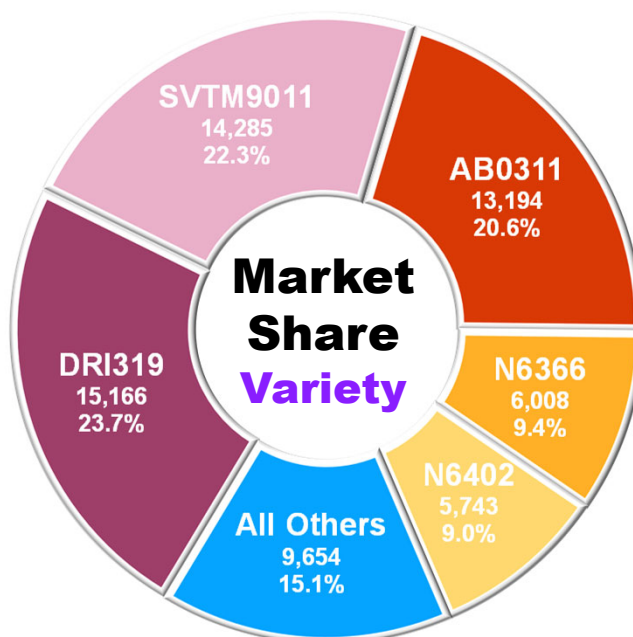
— Vs. 2019 —

Solids Increased
0.05

Thin Pack Timeline

% Packed: 21 Day Intervals

Class	25-Jul	15-Aug	5-Sep	26-Sep
Thin	9.6%	38.3%	70.4%	93.0%



Class Market Share

By Region

Class	North	Central	South	Coast
Thin	10.5%	23.2%	13.3%	45.4%

2020 Season Review

BP74

Disease: VFFFNPTsw*

Days: 123

Thin

Commercial Variety

Color Dice Recovery



2020 AgSeeds Lab

30 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
DRI319	83	5.61	16.47	5.91	2.16	349	4.08
BP74	86	5.52	15.07	5.06	2.27	411	4.13
SVTM9011	80	5.66	14.76	5.14	2.23	458	4.09

DRI319

BP74

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	15	Average
Desirable	2	Retention	13	Desirable
Desirable	3	Integrity	5	Desirable

Optimal Harvest Date

July
20th



Sept
1st

Comparable Varieties

DRI319

SVTM9011

2020 Adaptives

6 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
BP74	53.2	3.1%	5.75	1.1	1.2	21.2	1.5
DRI319	51.6	0.0%	5.95	1.0	3.4	21.8	0.8

2020 Season Review

Disease: VFFFNPTsw

Days: 122

SVTM9011

Thin

SVTM9012

Commercial Varieties

High Brix

Great Peeler



2020 AgSeeds Lab

30 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
SVTM9011	81	5.68	14.71	5.14	2.24	469	4.09
AB0311	83	5.64	16.01	5.72	2.23	401	4.12
SVTM9012	84	5.66	15.77	5.63	2.22	397	4.09

Optimal Harvest Date

**July
20th**



**Sept
1st**

Comparable Varieties

AB0311

SVTM1082

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
SVTM9011	14,285	5.65	2.9	1.8	20.7	1.6	4.43
AB0311	13,194	5.83	2.3	1.8	20.8	1.1	4.39
SVTM9012	1,604	5.46	2.9	1.9	20.6	0.8	4.42

2020 Season Review

Disease: VFFFNPTsw*

Days: 125

SVTM9019

Thin

Semi-Commercial Variety

EFH High Yield



2020 AgSeeds Lab

28 Locations

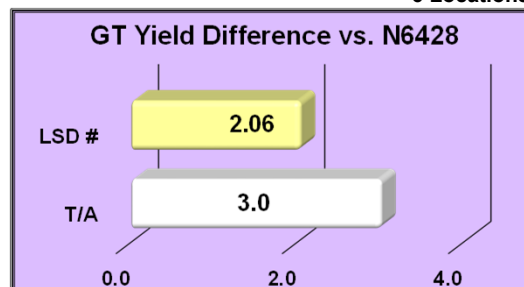
Variety	FW	Brix	JB	PPB	A/B	Ost	pH
AB0311	86	5.59	16.01	5.65	2.24	408	4.11
SVTM9019	84	5.48	15.75	5.33	2.10	349	4.05
N6428	80	5.07	13.65	3.61	2.16	438	4.16

DRI319

SVTM9019

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	33	Undesirable
Desirable	2	Retention	37	Undesirable
Desirable	3	Integrity	19	Undesirable

6 Locations



Optimal Harvest Date

**Aug
1st**



**Sept
10th**

Comparable Varieties

AB0311

SVTM1082

2020 Adaptives

5 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
SVTM9019	61.5	14.6%	5.62	0.7	1.6	21.9	0.4
DRI319	53.7	0.0%	5.91	0.8	2.3	21.2	0.5

2020 Season Review

Disease: VFFFNtswFrMv

Days: 124

HM5511

Thin

Semi-Commercial Variety

Crown Rot

New Thin



2020 AgSeeds Lab

30 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
DRI319	83	5.61	16.47	5.91	2.16	349	4.08
HM5511	75	5.53	14.50	4.80	2.22	326	4.12
SVTM9011	80	5.66	14.76	5.14	2.23	458	4.09

DRI319			HM5511		
Tier	Rank	Peel / Dice	Rank	Tier	
Undesirable	32	Recovery	37	Undesirable	
Desirable	2	Retention	18	Average	
Desirable	3	Integrity	12	Average	

Optimal Harvest Date

**July
20th**

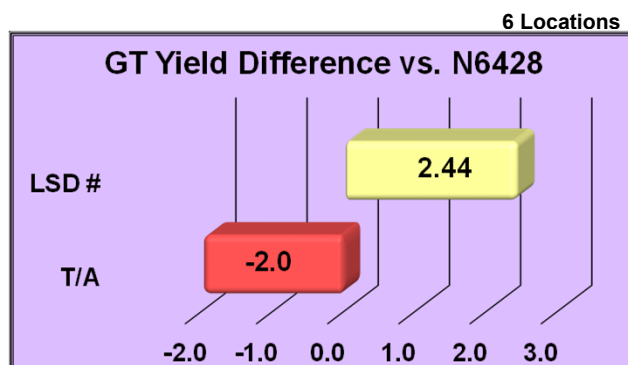


**Aug
31st**

Comparable Varieties

DRI319

SVTM9011



2020 Season Review

Disease: VFFFNtsw

Days: 120

BQ393

Thin

Semi-Commercial Variety

Strong Vine

New Thin

syngenta

2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
AB0311	86	5.59	16.01	5.65	2.24	408	4.11
BQ393	74	4.99	16.48	4.89	2.22	448	4.19
N6428	80	5.07	13.65	3.61	2.16	438	4.16

DRI319

BQ393

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	31	Undesirable
Desirable	2	Retention	23	Average

Optimal Harvest Date

**July
20th**



**Aug
31st**

Comparable Varieties

AB0311

SVTM9011

2020 Adaptives

3 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
BQ393	53.1	6.6%	5.17	1.6	6.5	22.4	2.5
DRI319	49.8	0.0%	6.20	2.8	5.1	22.8	1.7

Intermediate Varieties

32.1% of Total Market

PTAB Loads: 141,452

PPB: 2.81 to 4.69

Loads Increased
34.7%

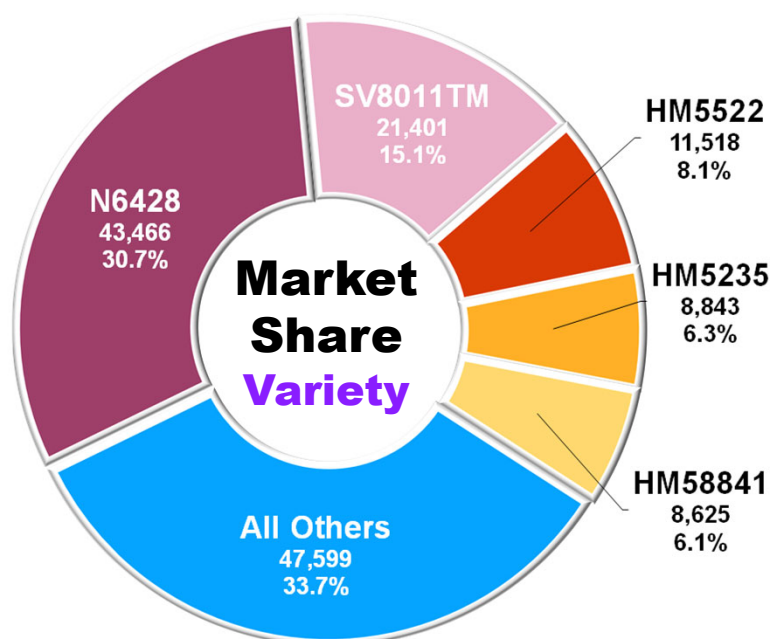
— Vs. 2019 —

Solids Increased
0.01

Inter Pack Timeline

% Packed: 21 Day Intervals

Class	25-Jul	15-Aug	5-Sep	26-Sep
Inter	2.5%	26.8%	61.6%	83.4%



Class Market Share

By Region

Class	North	Central	South	Coast
Inter	46.9%	35.3%	22.4%	20.8%

2020 Season Review

Disease: VFFNPtsw*

Days: 125

HM4521

Intermediate

Commercial Variety

Strong EFH

Heavy Crop



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
SV8011TM	90	5.29	12.49	3.39	2.23	583	4.13
HM4521	79	5.31	13.06	3.71	2.17	441	4.11
HM58841	78	5.46	11.79	3.32	2.17	551	4.11

HM4521

Mold	Rank	PTAB	Rank	LU
0.8	10	2020	3	0.5
0.7	10	2019	5	0.5
1.6	-	2018	-	0.8

* Must have over 1,000 PTAB loads to be ranked

Optimal Harvest Date

**Aug
1st**



**Sept
30th**

Comparable Varieties

AB0311

HM3887

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
SV8011TM	21,489	5.40	2.0	1.2	20.6	1.4	4.43
HM4521	5,804	5.30	0.8	0.5	21.1	1.3	4.38
HM58841	8,892	5.12	1.4	0.7	21.1	1.0	4.40

2020 Season Review

HM58841

Disease: VFFNtsw*

Days: 124

Intermediate

Commercial Variety

Adaptability Strong EFH



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
SV8011TM	90	5.29	12.49	3.39	2.23	583	4.13
HM58841	78	5.46	11.79	3.32	2.17	551	4.11
N6428	80	5.07	13.65	3.61	2.16	438	4.16

DRI319

HM58841

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	5	Desirable
Desirable	2	Retention	12	Desirable
Desirable	3	Integrity	6	Desirable

Optimal Harvest Date

Aug
1st



Sept
30th

Comparable Varieties

SV8011TM

BOS811

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
SV8011TM	21,489	5.40	2.0	1.2	20.6	1.4	4.43
HM58841	8,892	5.12	1.4	0.7	21.1	1.0	4.40
BOS811	14,682	5.12	1.4	0.7	20.3	1.5	4.40

2020 Season Review

Disease: VFFNtswFr

Days: 122

HM5522

Intermediate

Commercial Variety

Crown Rot

Great Peeler



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
AB0311	86	5.59	16.01	5.65	2.24	408	4.11
HM5522	76	5.51	13.76	4.39	2.27	382	4.11
HM3887	93	5.32	14.94	4.66	2.23	262	4.14

DRI319

HM5522

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	13	Desirable
Desirable	2	Retention	4	Desirable
Desirable	3	Integrity	4	Desirable

Optimal Harvest Date

July
20th



Sept
1st

Comparable Varieties

AB0311

HM3887

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
AB0311	13,194	5.83	2.3	1.8	20.8	1.1	4.39
HM5522	11,518	5.75	1.0	0.7	20.3	0.8	4.37
HM3887	5,400	5.53	1.7	1.6	21.2	2.5	4.44

2020 Season Review

Disease: VFFFPtsw

Days: 123

SVTM9013

Inter

SVTM9014

Commercial Varieties

Large Fruit

Great Peeler



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
SVTM9013	90	5.29	12.27	3.27	2.24	595	4.13
N6428	80	5.07	13.65	3.61	2.16	438	4.16
SVTM9014	83	5.37	12.04	3.30	2.25	565	4.10

Optimal Harvest Date

**July
20th**



**Sept
1st**

Comparable Varieties

N6428

SV8011TM

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
SVTM9013	6,797	5.16	2.4	1.4	20.7	1.4	4.43
N6428	43,534	4.81	2.6	2.1	22.0	2.6	4.50
SVTM9014	5,534	5.05	2.7	1.3	20.7	1.0	4.42

2020 Season Review

Disease: VFFFNptsw*

Days: 125

UG29814

Intermediate

Commercial Variety

EFH

Good Color

United Genetics

2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
UG29814	75	5.29	12.80	3.54	2.26	548	4.14
SVTM9013	90	5.29	12.27	3.27	2.24	595	4.13

Optimal Harvest Date

**Aug
1st**



**Sept
15th**

Comparable Varieties

N6428

SVTM9013

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
N6428	43,534	4.81	2.6	2.1	22.0	2.6	4.50
UG29814	1,299	5.61	1.7	0.7	20.9	1.6	4.47
SVTM9013	6,797	5.16	2.4	1.4	20.7	1.4	4.43

2020 Season Review

Disease: VFFFNtsw*

Days: 124

H2010

Intermediate

Semi-Commercial Variety

EFS™

Great Color



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
H2010	77	5.09	13.71	3.68	2.29	450	4.12
SVTM9013	90	5.29	12.27	3.27	2.24	595	4.13

DRI319

H2010

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	29	Undesirable
Desirable	2	Retention	34	Undesirable
Desirable	3	Integrity	8	Average

Optimal Harvest Date

**Aug
1st**



**Sept
10th**

Comparable Varieties

N6428

SVTM9013

2020 Adaptives

11 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
H2010	59.7	3.5%	4.92	3.5	3.4	20.8	2.3
N6428	57.7	0.0%	4.77	4.5	2.0	21.6	3.3

2020 Season Review

Disease: VFFFNPTswFrMV*

Days: 126

HM8237

Intermediate

Semi-Commercial Variety

Crown Rot Yield Boost



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
HM8237	83	5.32	13.38	3.88	2.19	323	4.11
SVTM9013	90	5.29	12.27	3.27	2.24	595	4.13

DRI319

HM8237

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	9	Desirable
Desirable	2	Retention	25	Average

Optimal Harvest Date

**Aug
15th**



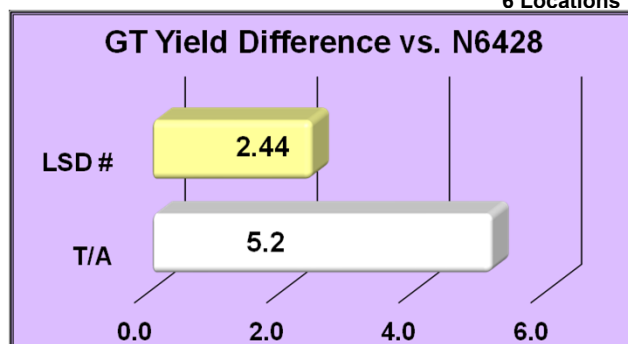
**Sept
30th**

Comparable Varieties

N6428

SVTM9013

6 Locations



2020 Season Review

Disease: VFFFNPtswFr

Days: 125

SVTM9021

Intermediate

Semi-Commercial Variety

Crown Rot

Peeler



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
SVTM9021	85	5.26	13.08	3.64	2.24	497	4.06
N6434	83	5.16	13.87	3.86	2.14	451	4.17

DRI319

SVTM9021

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	26	Undesirable
Desirable	2	Retention	5	Desirable
Desirable	3	Integrity	1	Desirable

Optimal Harvest Date

Comparable Varieties

**July
20th**

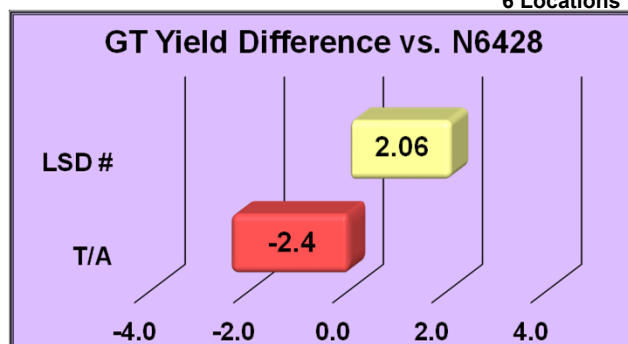


**Sept
1st**

N6428

SVTM9013

6 Locations



Thick Varieties

33.9% of Total Market

PTAB Loads: 149,470

PPB: ≤ 2.80

Loads Decreased
21.7%

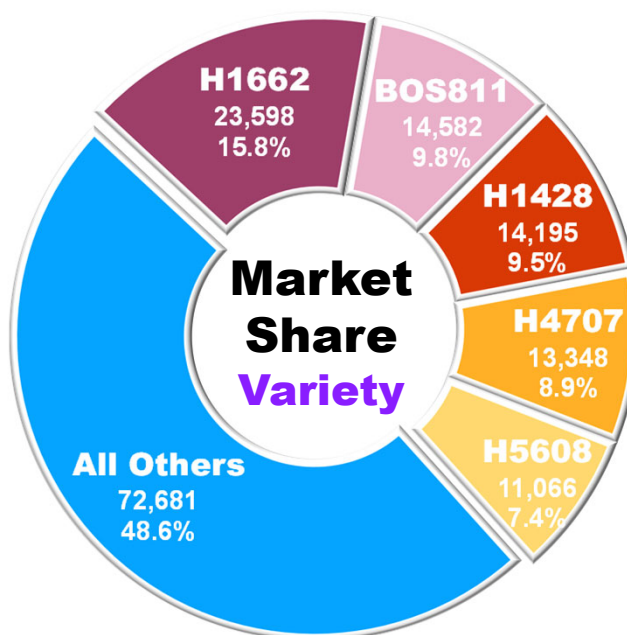
— **Vs. 2019** —

Solids Increased
0.07

Thick Pack Timeline

% Packed: 21 Day Intervals

Class	25-Jul	15-Aug	5-Sep	26-Sep
Thick	2.9%	14.6%	41.6%	83.2%



Class Market Share

By Region

Class	North	Central	South	Coast
Thick	28.7%	35.1%	36.6%	20.6%

2020 Season Review

Disease: VFFFNptsw*

Days: 128

SVTM9016

Thick

Commercial Variety

EFH High Yield



2020 AgSeeds Lab

31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
SVTM9016	88	5.14	11.28	2.53	2.10	596	4.09
N6434	83	5.16	13.87	3.86	2.14	451	4.17

SVTM9016

Mold	Rank	PTAB	Rank	LU
2.5	49	2020	8	0.6
1.5	-	2019	-	0.5

* Must have over 1,000 PTAB loads to be ranked

Optimal Harvest Date

**Aug
1st**



**Sept
20th**

Comparable Varieties

N6428

N6434

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
N6428	43,534	4.81	2.6	2.1	22.0	2.6	4.50
SVTM9016	8,520	4.89	2.5	0.6	21.7	2.0	4.38
N6434	4,082	5.06	2.3	2.1	22.0	2.5	4.50

2020 Season Review

Disease: VFFFNPTswLv

Days: 125

H1662

Thick

Commercial Variety

Powdery Mildew

Thick F3



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
H1662	77	5.09	11.17	2.41	2.15	869	4.12
SVTM9016	88	5.14	11.28	2.53	2.10	596	4.09

H1662

Mold	Rank	PTAB	Rank	LU
2.2	39	2020	39	1.6
1.8	45	2019	33	1.1
1.9	36	2018	28	1.3

* Must have over 1,000 PTAB loads to be ranked

Optimal Harvest Date

Comparable Varieties

**Aug
1st**



**Sept
1st**

N6428

SVTM9016

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
N6428	43,534	4.81	2.6	2.1	22.0	2.6	4.50
H1662	23,619	4.99	2.2	1.6	21.9	2.6	4.46
SVTM9016	8,520	4.89	2.5	0.6	21.7	2.0	4.38

2020 Season Review

H1776

Disease: VFFNtsw*

Days: 122

Thick

Commercial Variety

EFS™

Peeler



2020 AgSeeds Lab

31 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.04	13.68	3.34	2.17	428	4.15
H1776	83	5.26	10.80	2.05	2.24	742	4.11
H1428	59	5.06	10.20	1.87	2.25	893	4.13

H1776

Mold	Rank	PTAB	Rank	LU
2.4	48	2020	9	0.6
1.5	31	2019	9	0.6
1.8	-	2018	-	0.8

* Must have over 1,000 PTAB loads to be ranked

Optimal Harvest Date

**Aug
1st**



**Sept
20th**

Comparable Varieties

H1428

N6415

2020 PTAB

Final Report

Variety	Loads	Brix	Mold	LU	Color	Green	pH
H1428	14,195	4.83	2.0	0.9	21.2	2.6	4.49
H1776	1,120	5.31	2.4	0.6	20.9	1.4	4.44
N6415	1,739	5.17	0.6	0.8	21.3	2.1	4.43

2020 Season Review

Disease: VFFFNPTsw*

Days: 125

H1996

Thick

Semi-Commercial Variety

Strong EFS™

High Yield



2020 AgSeeds Lab

28 Locations

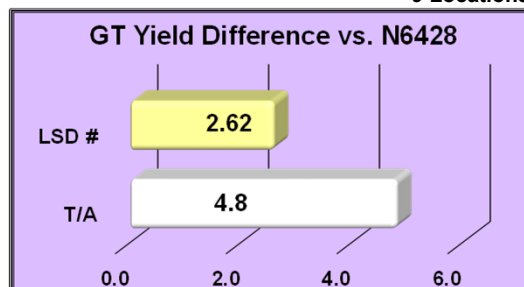
Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
H1996	72	5.07	11.53	2.55	2.28	704	4.10
H1310	67	4.98	11.50	2.39	2.22	722	4.16

DRI319

H1996

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	3	Desirable
Desirable	2	Retention	29	Undesirable
Desirable	3	Integrity	9	Average

9 Locations



Optimal Harvest Date

**Aug
1st**



**Sept
20th**

Comparable Varieties

N6428

H1310

2020 Adaptives

25 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
H1996	60.9	3.0%	5.05	1.8	0.9	20.5	1.7
N6428	59.2	0.0%	4.82	3.6	1.7	21.6	2.2

2020 Season Review

Disease: VFFFNtsw*

Days: 125

H1994

Thick

Semi-Commercial Variety

EFS™



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
H1994	67	5.12	11.01	2.37	2.22	798	4.08
H1662	77	5.09	11.17	2.41	2.15	869	4.12

DRI319

H1994

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	24	Average
Desirable	2	Retention	17	Average
Desirable	3	Integrity	18	Undesirable

Optimal Harvest Date

**July
30th**



**Sept
10th**

Comparable Varieties

N6428

H1662

2020 Adaptives

25 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
N6428	58.4	0.0%	4.79	3.9	1.7	21.7	2.3
H1994	55.7	-4.6%	5.01	1.8	1.3	21.3	1.5

2020 Season Review

Disease: VFFFNptsw

Days: 124

H1991

Thick

Semi-Commercial Variety

Great Color



2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
H1991	72	5.11	11.81	2.75	2.35	742	4.12
H1662	77	5.09	11.17	2.41	2.15	869	4.12

DRI319

H1991

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	19	Average
Desirable	2	Retention	20	Average
Desirable	3	Integrity	16	Undesirable

Optimal Harvest Date

**July
30th**



**Aug
31st**

Comparable Varieties

N6428

H1662

2020 Adaptives

24 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
N6428	59.2	0.0%	4.80	3.5	1.7	21.7	2.3
H1991	57.0	-3.7%	4.86	5.4	1.3	20.2	1.6

2020 Season Review

Disease: VFFFNPTsw*

Days: 125

SVTM9023

Thick

Semi-Commercial Variety

EFH Heavy Crop



2020 AgSeeds Lab

28 Locations

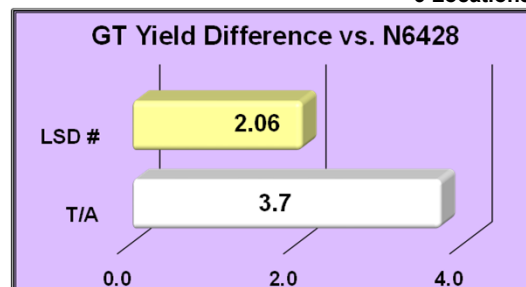
Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
SVTM9023	78	5.20	11.50	2.76	2.11	629	4.13
SVTM9008	80	5.19	11.19	2.57	2.17	723	4.05

DRI319

SVTM9023

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	16	Average
Desirable	2	Retention	8	Desirable
Desirable	3	Integrity	13	Average

6 Locations



Optimal Harvest Date

**Aug
1st**



**Sept
20th**

Comparable Varieties

N6428

SVTM9008

2020 Adaptives

19 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
SVTM9023	62.3	8.0%	5.11	2.5	1.3	22.1	0.8
N6428	57.7	0.0%	4.86	3.2	1.4	21.8	1.1

2020 Season Review

Disease: VFFFNPTsw*

Days: 125

SVTM9024

Thick

Semi-Commercial Variety

EFH Good Peeler



2020 AgSeeds Lab

28 Locations

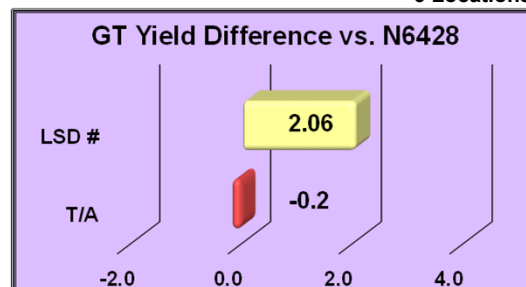
Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
SVTM9024	77	5.20	11.28	2.64	2.17	691	4.04
SVTM9008	80	5.19	11.19	2.57	2.17	723	4.05

DRI319

SVTM9024

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	25	Average
Desirable	2	Retention	9	Desirable
Desirable	3	Integrity	11	Average

6 Locations



Optimal Harvest Date

**Aug
1st**



**Sept
20th**

Comparable Varieties

N6428

SVTM9008

2020 Adaptives

18 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
SVTM9024	56.5	0.3%	5.08	2.0	0.9	21.4	1.0
N6428	56.4	0.0%	4.93	2.8	1.4	21.7	1.1

2020 Season Review

Disease: VFFFNptswFr*

Days: 125

SVTM9025

Thick

Semi-Commercial Variety

Crown Rot

Good Peeler



2020 AgSeeds Lab

28 Locations

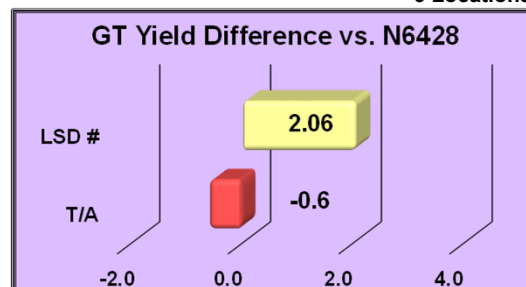
Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
SVTM9025	81	5.21	11.46	2.74	2.15	708	4.00
SVTM9008	80	5.19	11.19	2.57	2.17	723	4.05

DRI319

SVTM9025

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	20	Average
Desirable	2	Retention	1	Desirable
Desirable	3	Integrity	14	Average

6 Locations



Optimal Harvest Date

**Aug
1st**



**Sept
20th**

Comparable Varieties

N6428

SVTM9008

2020 Adaptives

21 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
SVTM9025	58.7	3.9%	5.24	1.8	1.0	21.6	0.9
N6428	56.5	0.0%	4.90	3.0	1.4	21.8	1.0

2020 Season Review

Disease: VFFFNtsw

Days: 124

BQ391

Thick

Semi-Commercial Variety

F3 Thick

Ostwald

syngenta

2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
BQ391	71	4.99	11.22	2.26	2.19	753	4.15
H1662	77	5.09	11.17	2.41	2.15	869	4.12

DRI319

BQ391

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	7	Desirable
Desirable	2	Retention	19	Average
Desirable	3	Integrity	10	Average

Optimal Harvest Date

**July
30th**



**Aug
31st**

Comparable Varieties

N6428

H1662

2020 Adaptives

9 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
N6428	63.5	0.0%	4.85	1.9	1.0	21.7	2.0
BQ391	52.0	-18.1%	4.87	4.2	1.3	20.8	2.6

2020 Season Review

Disease: VFFFNtsw

Days: 124

BQ395

Thick

Semi-Commercial Variety

F3 Thick

syngenta

2020 AgSeeds Lab

28 Locations

Variety	FW	Brix	JB	PPB	A/B	Ost	pH
N6428	80	5.07	13.65	3.61	2.16	438	4.16
BQ395	77	4.87	11.65	2.28	2.22	695	4.14
H1662	77	5.09	11.17	2.41	2.15	869	4.12

DRI319

BQ395

Tier	Rank	Peel / Dice	Rank	Tier
Undesirable	32	Recovery	21	Average
Desirable	2	Retention	26	Undesirable
Desirable	3	Integrity	17	Undesirable

Optimal Harvest Date

**July
30th**



**Aug
31st**

Comparable Varieties

N6428

H1662

2020 Adaptives

9 Locations

Variety	T/A	YC	Brix	Mold	LU	Color	Green
N6428	62.9	0.0%	4.84	2.0	0.8	21.5	2.0
BQ395	55.5	-11.8%	4.70	4.6	2.1	20.6	1.8

Pear Varieties

3.0% of Total Market

PTAB Loads: 13,382

Pear Shape

Loads **Decreased**
7.8%

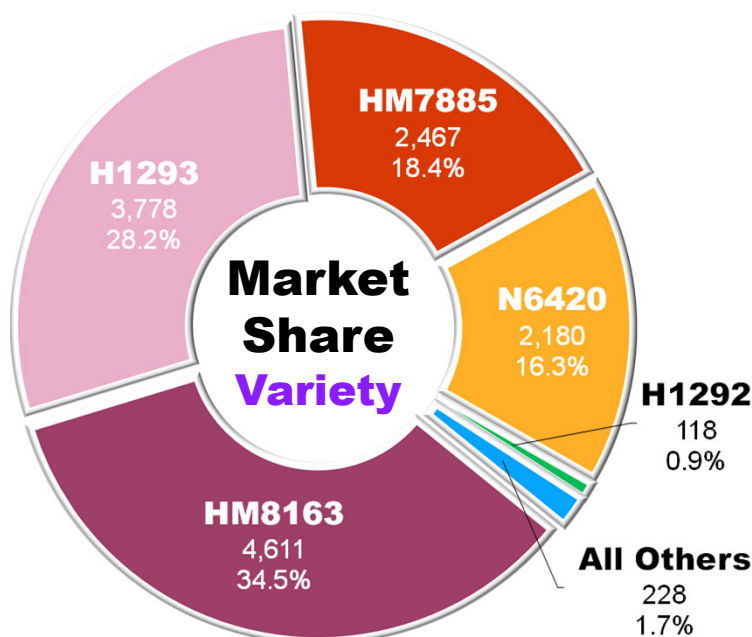
— Vs. 2019 —

Solids **Increased**
0.29

Pear Pack Timeline

% Packed: 21 Day Intervals

Class	25-Jul	15-Aug	5-Sep	26-Sep
Pear	9.0%	38.7%	78.5%	98.6%



Class Market Share

By Region

Class	North	Central	South	Coast
Pear	2.1%	3.0%	3.6%	-