California Avocado Society 1987 Yearbook 71: 39-47

Avocado Varieties for Commercial Planting in California 1988

Prepared by: The Variety Subcommittee, California Avocado Society Reviewed by: University of California, California Avocado Society

CLIMATIC ZONES



NOTE: Zones shown are general and may be interspersed with areas of a different climate than indicated.

AVOCADO VARIETIES FOR COMMERCIAL PLANTING IN CALIFORNIA a

			FRUI	T CHARACTE	RISTICS		
	PEEL COLOR (RIPE)	PEEL TEXTURE	PEEL THICKNESS	PEEL EASE	RELATIVE SEED SIZE	RANGE IN FRUIT SIZE(OZ)	FRUIT SHAPE
Recommended Va	arieties						
ASS	BLACK	ROUGH	MED THICK	VERY GOOD	SM-MED	5-12	OVATE
Varieties in Com	mercial Pr	oduction but NO	T Recommend	ded b			
ACON	DK GRN	SMOOTH	MED THIN	FAIR-GOOD	MED-LG	6-12	OVATE
UERTE	GREEN	SMOOTH	MEDIUM	GOOD-EXC.	MEDIUM	6-14	PEAR
EED	GREEN	SEMI-ROUGH	THICK	GOOD	MEDIUM	8-18	SPHERIODAL
UTANO	YLW/GR	SMOOTH	THIN	FAIR	LARGE	6-12	PEAR
Varieties for Tes	ting C						
WEN	GREEN	ROUGH	MED THICK	VERY GOOD	SM-MED	7-12	THICK-OVATE
INKERTON	DK GRN	SEMI-ROUGH	MED THICK	EXCELLENT	SMALL	8-18	LONG PEAR
HITSELL	DK GRN	ROUGH	THICK	GOOD	SMALL	7-16	SHORT PEAR

a: General characteristics may vary according to climatic zones for all varieties.

b: Other minor varieties including Anaheim, Covacado, Jim, McArthur, Rincon, Santana,

Susan are also not recommended.
c: These varieties are considered to show promise, but have had limited commercial testing.
Data presented is only tentative.

AVOCADO VARIETIES FOR COMMERCIAL PLANTING IN CALIFORNIA ^a

					PR	ODUCTION C	HARACTERIS'	TICS			
			1 st COM- L HARVEST				ALTERNATE		WIND	VEGETA- TIVE FROST	
	PARENTAGE	TOP WORKED	NEW PLANTINGS	Y IELD POTENTIAL	TREE	CANOPY SIZE	BEARING TENDENCY		TOLER- ANCE	TOLER- ANCE	SEASON
Recommen	ded Varieties										
HASS	Mostly Guat	3	4	High	S	Med-Large	Mod-Sev	A	Low	Low	
Varieties in	Commercial Pr	oduction	but NOT Rec	commended b							
BACON	Mostly Mex	3	4	Medium	U	Small	Slight	В	Moderate	High	
FUERTE	Guat & Mex	3	4	Low	S	Large	Irregular	В	High	Moderate	
REED	Guatamalan	3	4	High	U	Medium	Moderate	A	Very Low	Low	
ZUTANO	Mostly Mex	3	4	High	U	Medium	Slight	В	Moderate	Moderate	
Varieties fo	r Testing ^C										
GWEN	Mostly Guat	2	3	Very High	Uf	Small	Moderate	A	Moderate	Low	
PINKERTON	Mostly Guat	3	4	High	S	Medium	Moderate	A	High	Low	
WHITSELL	Mostly Guat	2	3	Very High	I	Small-Med	Severe	В	High	Very Low	

a: General characteristics may vary according to climatic zones for all varieties.
b: Other pinor varieties including Anaheim, Covacado, Jim, McArthur, Rincon, Santana, Susan are also not recommended.
c: These varieties are considered to show promise, but have had limited commercial testing. Data presented is only tentative.

d: S*Spreading; U=Upright; I=Irregular. Topworked trees may exhibit more upright tree shape.
e: Yields may be enhanced by cross pollination with opposite flower type which blooms at the same time.
f: Topworked trees tend to be more upright.

AVOCADO VARIETIES FOR COMMERCIAL PLANTING IN CALIFORNIA ^a

	M	ARKETING CH	HARACTERISTICS	3
	STORAGE & SHELF LIFE	SHIPPING QUALITY	RESPONSE TO ETHYLENE CONDITIONING	RELATIVE PRICE (% RETURN TO GROWER)d
Recommended Var	rieties			,
HASS	GOOD-EXCELLENT	EXCELLENT	EXCELLENT	\$0.30 (100%)
Varieties in Comm	ercial Production by	nt NOT Recor	nmended b	
BACON	POOR	FAIR	POOR	\$0.14 (47%)
FUERTE	GOOD	POOR-FAIR	POOR	\$0.19 (63%)
REED	FAIR	FAIR	POOR	\$0.14 (47%)
ZUTANO	POOR	POOR-FAIR	POOR	\$0.14 (47%)
Varieties for Test	ing ^C			
GWEN	NEe	NE	NE	NE
PINKERTON	GOOD-VERY GOOD	GOOD	EXCELLENT	NE
WHITSELL	NE	NE	NE	NE

- a: General characteristics may vary according to climatic zones for all varieties.
- b: Other minor varieties including Anaheim, Covacado, Jim, McArthur, Rincon, Santana, Susan are also not recommended.
- c: These varieties are considered to show promise, but have had limited commercial testing. Data presented is only tentative.
 d: Source: California Avocado Commission. Assessment Report. Figures
- d: Source: California Avocado Commission. Assessment Report. Figures for Hass and Fuerte are actual return from 11/80-12/87. Figures for Bacon, Reed and Zutano based on "Others" classification which includes all miscellaneous varieties from 11/80-12/87.
- e: NE = Not Established.
- $f\colon$ Early season Pinkerton require ethylene conditioning for satisfactory ripening.

AVERAGE BLOOM AND HARVEST SEASON

ZUTANO

																							1.02					
ZONE	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mai	Ap	r Ma	y Ju	ın Jı	11 /	Aug	Sep	0ct	No	v De	Jan
So. CA Coast-South																												
So. CA Coast-North																												
Cent.CA Coast-South				+++	1111	1111	+									хх	XXX	KXXX	хx									
Cent.CA Coast-North				+++	++++	++++	+											33	XXXX	xx								
So.CA TransSouth				+++	++++	1111	+						xx	xxxx	xxxx	х												
So.CA TransNorth				+++	1111	++++	+							xxx:	XXXX	ХX												
So.CA Interior				+++	1111	1111	+						хx	xxxx														
San Joaquin Valley				+++	++++	++++	+					x	xxxx	х				1 8-01										
																	_									_		

*GWEN

ZONE	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sej	p Oct	t N	lov D	ec.	Jan
So.CA Coast-South					++	1111	++++									XXX	XXXX	KXXX2	(XXX)	XXXX	xxxx	XXXX	XXXX	хx	10		100	
So.CA Coast-North					++	1111	1111								- 7		хх	xxxx	(XXX)	xxx	xxxx	XXXX	(XXX	xxxx	XXX	CXX		
Cent.CA Coast-South		La contra			++	++++	++++													ххх	xxxx	XXX	(XXX	KXXX	XXX	CXXXX	хх	
Cent.CA Coast-North					++		++++			-1.700.00)	XXXX	xxx	xxx
So.CA TransSouth					++		+++									хх	xxxx	KXXXX	(XXX)	XXXX	xxxx	XXXX	(XXX	×				
So.CA TransNorth					++	1111	+++										ж	KXXXX	CXXX	кххх	xxxx	хххх	(XXX	кжжж	XXX	c		
So.CA Interior																	u,											
San Joaquin Valley								000													5.5							

^{*}Tentative

AVERAGE BLOOM AND HARVEST SEASON

PINKERTON

Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Ju1	Aug	Sep	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
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	+++		+++	++++	+++	+++									ххх	хххх	xxxx	XXXX	XXXX	xxxx						
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*WHITSELL

										-									-	_	_	-	_	_	-	-	_
ZONE	Nov	Dec	Jan	F	eb Ma	rApr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Ju1	Aug	Sep	Oct	Nov	Dec	Jan
So.CA Coast-South																											
So.CA Coast-North																											
Cent.CA Coast-South				+	11111	11111	++++									хх	хххх	хххх	xxxx	хххх	XXXX						
Cent.CA Coast-North																					- 20-21-25						
So.CA TransSouth																											
So.CA TransNorth				+	11111	11111	++++		576					xx	xxxx	xxxx	xxxx	ккх									
So.CA Interior																											
San Joaquin Valley																											

^{*}Tentative

	FUER	TE					A	VE	RAGE	BLO	MOM	ANI	HAI	RVEST	T S	EASC	N												
ZONE	Nov	Dec	Jan 1	Feb 2	Mar	Apr	Мау	Ju	n Ju	Aug	S	ep Oc	t No	Dec	J	an Fe	ъМ	ar	Apr	May	Jur	Jul	L	Aug	Sep	Oct	Nov	Dec	Jan
So. CA Coast-South																													
So. CA Coast-North																													
Cent.CA Coast-South																													
Cent.CA Coast-North																													
So.CA TransSouth			++++	++++	++++	+++	+						xx	xxxx	xx	xxxx	xxx	xxx	×××	xxxx	X								
So.CA TransNorth			++++	1111	1111	1111	+						xx	xxxx	xx	XXXX	xxx	xxx	xxx	xxxx	×								
So.CA Interior			++++	1111	1111	+++	+							xxx	СХХ	XXXXX	xxx	xxx	xxx	xx									
San Joaquin Valley																													

	REEI	D																									
ZONE	Nov	Dec	Jan	F	eb Mai	Apr	May	Ju	n Jul	Aug	Se	p Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Au	g Ser	Oct	Nov	Dec	Jan
So.CA Coast-South				+		-																					
So.CA Coast-North																											
Cent.CA Coast-South																											
Cent.CA Coast-North																											
So.CA TransSouth						+++	++++	+++									xx	xxxx	xxxx	xxxx	XXXX	xxx	xxxx				
So.CA TransNorth																											
So.CA Interior																											
San Joaquin Valley																											

AVERAGE BLOOM AND HARVEST SEASON

HASS

																		_					-			_	_		-	
ZONE	Nov	Dec	Jan	Fe	ь	lar	Apr	May	Jun	Jul	Aug	Sep	0c	t No	Dec	J	an F	eb	Mar	Apr	May	Jun	Jul	A	ag S	ep	0ct	Nov	Dec	Jan
So. CA Coast-South						+++	111	+++								х	xxxx	ххх	CXXX	CXXX	XXXX	XXXX	XXXX	XXX	кх					
So. CA Coast-North						+++	+++					200000				-445		ххх	CXXX	CXXX	xxxx	xxxx	xxxx	хх	xxxx	xxx	ххх			
Cent.CA Coast-South						+++	+++	+++						60000							xxx	xxxx	XXXX	XX	xxxx	ххх	XXXX	cxxx		
Cent.CA Coast-North						+++	+++	+++													r50050						хххх	сххх	xxxx	xxxx
So.CA TransSouth						+++	+++	1111							XXX	кхх	xxxx	XXX	(XXX	xxxx:	xxxx	xxxx	xxxx					- 04-25		
So.CA TransNorth						++	1111											XXX	CXXX	кххх	xxxx	xxxx	xxxx	xx	xxxx	xx				
So.CA Interior																	102.13												-170	
San Joaquin Valley																														

BACON

	Dire	OX.																									
ZONE	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	No	v De	Jan
So.CA Coast-South																										1000 1100	
So.CA Coast-North					+++	++++	+++								XXX	хххх	xxxx										
Cent.CA Coast-South					+++	1111	+++										xxx	xxxx	xxxx	xxxx							
Cent.CA Coast-North					+++		+++																	xxx	ххх	xxxx	XXXX
So.CA TransSouth					+++	1111	+++								xxx	xxxx	xxxx	xxxx	xxxx	XXXX	xxxx						
So.CA TransNorth					+++		+++									xxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	хххх				
So.CA Interior																											
San Joaquin Valley																											
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AVERAGE STATEWIDE BLOOM AND HARVEST SEASON a

VARIETY	z	D	J	Ct.	×	A	Σ	٦	ר	A	S	0	Z	Q	ר	PH	E	A	×	ר	ר	A	S	0	z	Q	ר
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BACON	_				Ī	+	I	+					XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXX						
FUERTE			Ī	1		ŧ							XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	xxxx	XXXX	×						
REED						Ī	+ + + + + + + + + + + + + + + + + + + +	İ									×	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX				
ZUTANO				1	+	ŧ						×	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	xxxx								
GWEN	_				Ŧ	+++++++++++++++++++++++++++++++++++++++	H	+								XXX	XXXX	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXX	XXXX	XXXX	XXXX
PINKERTON ++++++++++++++++++++++++++++++++++++	Ŧ	1	=	=	1	+++++++++++++++++++++++++++++++++++++++	I	+						XXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	xxxx	XXXX	XXXX						
WHITSELL					Ŧ	+++++++++++++++++++++++++++++++++++++++	Ī	+								XXX	XXXX	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	KXXX	××					
										1	-	-	-			-			-						-	1	

a + = Approximate Bloom Period may seasonally vary; x = Approximate Harvest Period may seasonally vary.

Note: Absence of a harvest season indication in chart denotes variety not suited for zone or information not available.

b Tentative