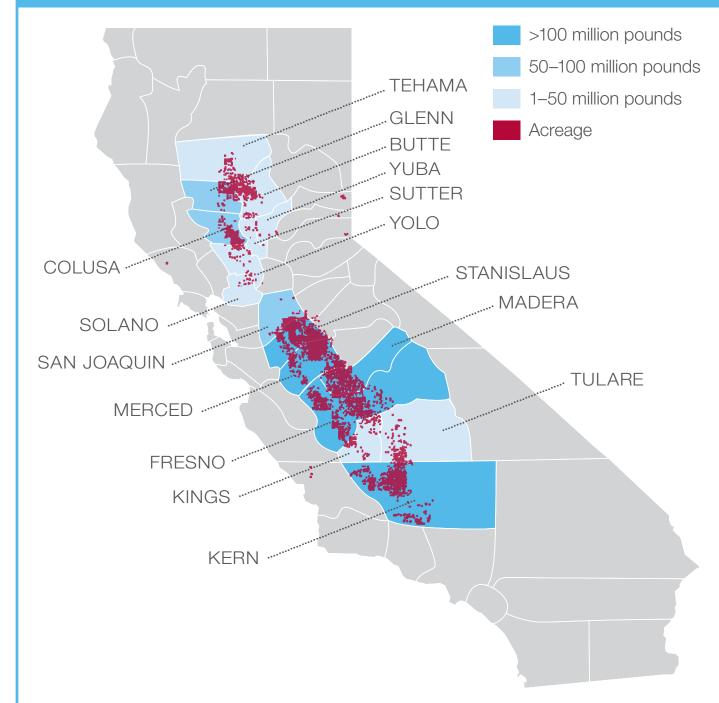
Guide to California Almonds

Almond Production by County



Composition of Whole Natural Almonds

10	00 grams, edible po PROXIMATE	ortion	MINERALS		VITAMINS		SONORA	CLASSIFICATION California type		•		
	Food Energy Protein	575 KCAL 21.2 g	Calcium Iron	264.0 mg 3.7 mg	Vitamin E* Thiamin (B1)	26.2 mg 0.2 mg		SHELL Soft shell, dark brown color, rough surface, high suture opening NUT Large, long narrow shape, light color, smooth surface				
	Total Lipid (fat) Saturated Fatty Acids Monounsaturate Fatty Acids Polyunsaturated	30.9 g d	Magnesium Phosphorus Potassium Sodium Zinc Manganese	268.0 mg 484.0 mg 705.0 mg 1.0 mg 3.1 mg 2.3 mg	Riboflavin (B2) Niacin Vitamin B6 Pantothenic Acio Folate	1.0 mg 3.4 mg 0.1 mg d 0.5 mg 50.0 mcg	FRITZ	CLASSIFICATION California type, Mission type SHELL Semi-hard shell, good shell integrity, low suture opening NUT Small, medium plump shape, fairly wrinkled surface	0	0	0	
	Fatty Acids12.1 g*Alpha-tocopherol.Cholesterol0.0 gDiscLAIMER: The range of values obtained through various private and government investigators are true and accurate to the best knowledge. Variations may occur due to crop differences year to year. Analyses and ranges of values obtained by various private and governmental sources may vary from actual data obtained from current and future crops. Source: USDA National Nutrient Database for Standard References, Release 24 (2011).							CLASSIFICATION California type SHELL Soft shell, dark brown color, rough surface, high suture opening NUT Small, short narrow shape, fairly wrinkled surface				
		NAME AND			alindari yan Kaleka waxana		CLASSIFICATION California type, In-shell/hard shell SHELL Hard shell, good shell integrity, smooth surface, no suture opening NUT Medium, wide shape, fairly wrinkled surface					

Varieties/Sizes* 18/20 20/22 23/25 25/27 27/30 30/32 32/34 **NONPAREIL CLASSIFICATION** Nonpareil SHELL Soft shell, light color, high suture opening NUT Medium, flat shape, smooth surface CARMEL CLASSIFICATION California type SHELL Soft shell, good shell integrity, fair suture opening NUT Medium, narrow shape, slightly wrinkled surface CLASSIFICATION BUTTE California type, Mission type SHELL Semi-hard shell, light color, smooth surface, low suture opening NUT Small, short plump shape, wrinkled surface CLASSIFICATION PADRE California type, Mission type SHELL Hard shell, good shell integrity, no suture opening NUT Small, short wide shape, wrinkled surface MISSION CLASSIFICATION Mission type SHELL Hard shell, good shell integrity, no suture opening NUT Small, short wide shape, dark brown, deeply wrinkled surface **MONTEREY** CLASSIFICATION California type SHELL Hard shell, smooth surface, low suture opening NUT Large, long narrow shape, deeply wrinkled surface

USDA Grades

	Whole Kernels	Minimum Diameter (inches)	Dissimilar	Doubles	Chip & Scratch	Foreign Material	Particles & Dust	Split & Broken	Other Defects	Serious Defects	Undersize
US Fancy			5%	3%	5%	.05%	.1%	1%	2%	1%	
US Extra No. 1			5%	5%	5%	.05%	.1%	1%	4%	1.5%	
US No. 1 (Supreme)*			5%	15%	10%	.05%	.1%	1%	5%	1.5%	
US Select Sheller Run			5%	15%	20%	.1%	.1%	5%	3%	2%	
US Standard Sheller Run			5%	25%	35%	.2%	.1%	15%	3%	2%	
US No. 1 Whole & Broken	30%	20/64 UOS†	5%	35%	Х	.2%	.1%	Х	5%	3%	5%
US No. 1 Pieces	Х	8/64	Х	Х	Х	.2%	1%	Х	5%	3%	5%
X No limit established. Also included in "Other Defects." Includes max. 2% under 20/64 inch. Includes max. 5% under 20/64 inch. % also included									included in "(Chip & Scratch	

*US No. 1 is commonly referred to by industry as Supreme. However, Supreme is not a USDA grade. †UOS = Unless Otherwise Specified. (Effective 3/24/97)

US Fancy

US Extra No. 1

US Standard Sheller Run

*Size, color and/or shape varies by year.

US No. 1 (Supreme)*



US No. 1 Whole & Broken Pieces

USDA Grading Parameters

DOUBLES





Typically used for whole almond applications or for further processing such as blanching and roasting.

Two kernels developing in one shell. One side of a double kernel is flat or concave.



Loss of kernel skin as a result of mechanical processing. Greater than 1/8" (3.2mm) in diameter, it is defined as injury; if affecting, in aggregate, greater than 1/4" (6.4mm) in diameter, it is defined as defect.



FOREIGN MATERIAL

Pieces of shell, hulls, or other foreign matter that will not pass through a round-opening screen measuring 8/64" (3.2mm) in diameter.

PARTICLES & DUST

Fragments of almond kernels or other material that will pass through a round-opening screen measuring 8/64" (3.2mm) in diameter.



SPLIT & BROKEN

Seven-eighths or less of complete whole kernels that will not pass through a round-opening screen measuring 8/64" (3.2mm) in diameter.



OTHER DEFECTS

Any defect that materially detracts from the appearance of the individual kernel or the edible or shipping quality of the almonds. The defects include gum, shrivel, brown spot and discolored.



SERIOUS DEFECTS

Any defect that makes a kernel or piece of kernel unsuitable (includes decay, rancidity, insect injury and damage by mold).



Forms



WHOLE NATURAL OR BLANCHED

COMMON SPECIFICATIONS USDA grades for natural almonds; processor or customer specifications for blanched almonds

TYPICAL APPLICATIONS Natural, roasted or flavored snacks Embedded or enrobed in chocolate Ingredients for confectionery, energy bars, bakery Inputs for processing

SLICED NATURAL OR BLANCHED **COMMON SPECIFICATIONS** THICKNESS Thick: 1.5-1.8 mm Regular: 1.1-1.4 mm Thin: 0.7–1.0 mm Extra Thin: 0.5-0.7 mm **TYPICAL APPLICATIONS** Topping for salads Ingredient for cereal Coating for savory dishes



Garnishing for baked goods, desserts



COMMON SPECIFICATIONS THICKNESS Regular: 3.0–5.0 mm Medium: 4.0-6.0 mm **TYPICAL APPLICATIONS** Roasted or flavored snacks Ingredient for baked goods, cereal Texture for confectionery Topping for prepared foods, salads

SLIVERED

BLANCHED

DICED NATURAL OR BLANCHED

COMMON SPECIFICATIONS Medium: 22/8.....22/64" & 8/64" (8.7 & 3.2 mm) Fine: 8/0 8/64" (3.2 mm)

TYPICAL APPLICATIONS Topping for dairy items, baked goods Coating for ice cream bars Filling for bakery or confectionery Crust for meats, seafood



MEAL OR FLOUR NATURAL OR BLANCHED

COMMON SPECIFICATIONS Coarse ground Fine ground (Grinders and screens determine particle size)

TYPICAL APPLICATIONS Sauce thickener Ingredient and filling for confectionery Flavor enhancer in bakery Coating for fried foods



BUTTER, PASTE NATURAL OR BLANCHED

TYPICAL APPLICATIONS Alternative to other nut butters Filling for chocolate, cereal bars, confectionery, bakery



OIL

COMMON SPECIFICATIONS Cold-pressed, light and pale amber color

TYPICAL APPLICATIONS Cooking oil, non-food (e.g., cosmetics, moisturizer)



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