

## In-Shell Nut Sorting Guide for CA Macadamia Nuts

Below is a guide to sorting/culling out nuts prior to sale to market. This includes a description of the disorder as well as suggestions for control. In addition to the sorting guidelines below, Gold Crown does not accept nuts smaller than ¾"dia.

Rat Damage	Empty shell, hole in shell with beveled edges (chew marks). Can cause major crop loss in orchard and post harvest fa- cilities.	Review efficacy of IPM ro- dent control methods.
	cintics.	



Bird Damage	Empty shell with hole pecked into the	Add reflective "scare tape"
Dira Damage	shell. Usually limited crop loss.	to affected trees.



CA Ground Squirrel Robbing	Nuts are gone - Scrapes of husks are of- ten left on the orchard floor. Can cause major crop loss.	Review efficacy of IPM ro- dent control program.
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Small Holes in NutsPhysiological defect, borers, potential mechanical damage.Monitor for pests and effi- cacy of IPM program.
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Open Microphyte	Physiological defect occurring on one end of the nut. Often hole has white margins.	
Hole	of the nut. Often note has write margins.	



Cracked Shell	Older shells, sun baked shells. Often	Review orchard manage-
	cracked along suture lines. Mold may	ment practices. Clean trees
	occur to nut kernels.	of stick-tights. Clean orchard
		floor before harvest.



Cracked Shell	Cracked along suture line. Germination	Review harvest intervals and
(Germination)	from exposure to prolonged moisture. Can happen on the tree or on the orchard floor. Mold may occur to nut kernel.	post harvest drying, storage and management practices.





	weed eaters, mowers, Review orchard manage- rith mechanical husking ment practices. Examine
(mechanical) machines.	and adjust mechanical husk- ers.



Pale Shells, Small Nuts	Immature nuts. Lightweight, often "rattles" when shaken. Can be due to out of season flowering, pre mature harvest- ing (picking nuts from tree), or lack of wa-	Harvest only after nut drop. Review watering guidelines to ensure proper watering.
	ter.	



Dark/Black Shells	Late season or out of season nuts. Stick- tights dropped from previous season.	Review orchard manage- ment practices. Clean trees of stick-tights, clean orchard floor before harvest.



Black Discolora- tion/Staining/	Black mold/stain. Moisture left on nuts too long in orchard. Nuts not dried quickly enough after harvest.	Review harvest intervals and post harvest drying, storage and management
Moldy		practices.

