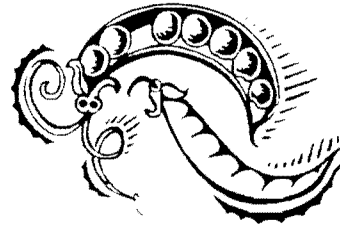


APPENDIX B



RECOMMENDED CONDITIONS: TEMPERATURE and RELATIVE HUMIDITY

The information found in this table was compiled by Marita Cantwell, Department of Vegetable Crops, University of California, Davis (April 1996). For future updates visit: <http://postharvest.ucdavis.edu>

Common Name in English	Scientific Name	Temperature		R.H. %	Approximate Shelf-life
		°C	°F		
African horned melon	<i>Cucumis anguria</i>	13-15	50-60	90	6 months
Amaranth; Pigweed	<i>Amaranthus spp.</i>	0-2	32-36	95-100	10-14 days
Apple	<i>Malus pumila</i>	-1-4	30-40	90-95	1-12 months
Apricot	<i>Prunus armeniaca</i>	-0.5-0	31-32	90-95	1-3 weeks
Artichoke	<i>Cynara scolymus</i>	0	32	95-100	2-3 weeks
Asian Pear, Nashi	<i>Pyrus serotina; P. pyrifolia</i>	1	34	90-95	5-6 months
Asparagus, green, white	<i>Asparagus officinalis</i>	1-2	34-36	95-100	2-3 weeks
Atemoya	<i>Annona squamosa x cherimola</i>	13	55	85-90	4-6 weeks
Avocado	<i>Persea americana</i>				
cv. Fuerte, Hass		7	45	85-90	2-4 weeks
cv. Fuchs, Pollock		13	55	85-90	2 weeks
cv. Lula, Booth-1		4	40	90-95	4-8 weeks
Babaco, Mt. papaya	<i>Carica candamarcensis</i>	7	45	85-90	1-3 weeks
Banana	<i>Musa paradisiaca var. sapientum</i>	13-15	56-59	90-95	1-4 weeks
Barbados cherry	<i>Malpighia glabra</i>	0	32	85-90	7-8 weeks
Basil	<i>Ocimum basilicum</i>	7.5-10	45-50	90	7 days
Beans					
Snapbean; Green Beans	<i>Phaseolus vulgaris</i>	4-7	40-45	95	7-10 days
Faba beans		4-7?	40-45	90-95	7-10 days
Lima beans	<i>Phaseolus lunatus</i>	5-6	41-43	95	5 days
Beet	<i>Beta vulgaris</i>				
bunched		0	32	98-100	10-14 days
topped		0	32	98-100	4 months
Belgian endive; Witloof chicory	<i>Cichorium intybus</i>	2-3	36-38	95-98	2-4 weeks

Common Name in English	Scientific Name	Temperature		R.H. %	Approximate Shelf-life
		°C	°F		
Bittermelon; Bitter gourd	<i>Momordica charantia</i>	10-12	50-54	85-90	2-3 weeks
Black salsify; <i>Scorzonera</i>	<i>Scorzonera hispanica</i>	0-1	32-34	95-98	6 months
Black sapote	<i>Diospyros ebenaster</i>	13-15	55-59	85-90	2-3 weeks
Blackberries	<i>Rubus spp.</i>	-0.5-0	31-32	90-95	3-6 days
Blueberries	<i>Vaccinium corymbosum</i>	-0.5-0	31-32	90-95	2 weeks
Bok choy	<i>Brassica chinensis</i>	0	32	95-100	3 weeks
Breadfruit	<i>Artocarpus altilis</i>	13-15	55-60	85-90	2-6 weeks
Broad bean; Faba bean	<i>Vicia faba</i>	4-5?	40-41?	90-95	1 semana?
Broccoli	<i>Brassica oleracea</i> var. <i>Italica</i>	0	32	95-100	10-14 days
Brussel Sprouts	<i>B. oleracea</i> var. <i>Gemnifera</i>	0	32	95-100	3-5 weeks
Cabbage	<i>B. oleracea</i> var. <i>Capitata</i>				
Early crop		0	32	98-100	3-6 weeks
Late cabbage		0	32	95-100	5-6 months
Cactus leaves, Nopalitos	<i>Opuntia spp.</i>	5-10	41-50	90-95	2-3 weeks
Cactus pear; Prickly pear fruit	<i>Opuntia spp.</i>	5	41	85-90	3 weeks
Caimito, star apple	<i>Chrysophyllum cainito</i>	3	38	90	3 weeks
Calamondin orange	<i>Citrus reticulata</i> x <i>Fortunella spp.</i>	9-10	48-50	90	2 weeks
Canistel, Eggfruit	<i>Pouteria campechiana</i>	13-15	55-60	85-90	3 weeks
Carambola, Starfruit	<i>Averrhoa carambola</i>	9-10	48-50	85-90	3-4 weeks
Carrots	<i>Daucus carota</i>				
bunched; immature		0	32	98-100	10-14 days
topped		0	32	98-100	6-8 months
Cashew apple	<i>Anacardium occidentale</i>	0-2	32-36	85-90	5 weeks
Cassava, Yucca root	<i>Manihot esculenta</i>	0-5	32-41	85-90	1-2 months
Cauliflower	<i>B. oleracea</i> var. <i>Botrytis</i>	0	32	95-98	3-4 weeks
Celeriac	<i>Apium graveolens</i> var. <i>Rapaceum</i>	0	32	98-100	6-8 months
Celery	<i>Apium graveolens</i> var. <i>Dulce</i>	0	32	98-100	1-2 months
Chard	<i>Beta vulgaris</i> var. <i>Cicla</i>	0	32	95-100	10-14 days
Chayote	<i>Sechium edule</i>	7	45	85-90	4-6 weeks
Cherimoya; Custard apple	<i>Annona cherimola</i>	13	55	90-95	2-4 weeks
Chinese broccoli; gailan	<i>Brassica alboglabra</i>	0	32	95-100	10-14 days
Chinese cabbage; Napa cabbage	<i>Brassica campestris</i> var. <i>Pekinensis</i>	0	32	95-100	2-3 months
Chinese Long bean	<i>Vigna sesquipedalis</i>	4-7	40-45	90-95	7-10 days
Chives	<i>Allium schoenoprasum</i>	0	32	95-100	2-3 weeks
Cilantro, Chinese parsley	<i>Coriandrum sativum</i>	0-2	32-34	95-100	2 weeks
Coconut	<i>Cocos nucifera</i>	0-2	32-36	89-85	1-2 months
Collards, Kale	<i>B. oleracea</i> var. <i>Acephala</i>	0	32	95-100	10-14 days
Cool season Leafy Greens	<i>various genera</i>	0	32	95-100	10-14 days
Cranberry	<i>Vaccinium macrocarpon</i>	2-4	36-40	90-95	2-4 months
Cucumber	<i>Cucumis sativus</i>	10	50	85-90	10-14 days
Currants	<i>Ribes sativum</i> ; <i>R. nigrum</i> ; <i>R. rubrum</i>	-0.5-0	31-32	90-95	1-4 weeks
Daikon; Oriental radish	<i>Raphanus sativus</i>	0-1	32-34	95-100	4 months
Date	<i>Phoenix dactylifera</i>	-18-0	0-32	75	6-12 months

Common Name in English	Scientific Name	Temperature		R.H. %	Approximate Shelf-life
		°C	°F		
Dill	<i>Anethum graveolens</i>	0	32	95-100	1-2 weeks
Durian	<i>Durio zibethinus</i>	4-6	39-42	85-90	6-8 weeks
Eggplant	<i>Solanum melongena</i>	10-12	50-54	90-95	1-2 weeks
Endive and Escarole	<i>Cichorium endivia</i>	0	32	95-100	2-3 weeks
Epazote	<i>Chenopodium ambrosioides</i>	0-5	32-41	90-95	1-2 weeks
Feijoa, Pineapple guava	<i>Feijoa sellowiana</i>	5-10	41-50	90	2-3 weeks
Fennel; anise	<i>Foeniculum vulgare</i>	0-2	32-36	90-95	2-3 weeks
Fig	<i>Ficus carica</i>	-0.5-0	31-32	85-90	7-10 days
Garlic	<i>Allium sativum</i>	0	32	65-70	6-7 months
Ginger	<i>Zingiber officinale</i>	13	55	65	6 months
Gooseberry	<i>Ribes grossularia</i>	-0.5-0	31-32	90-95	3-4 weeks
Grape	<i>Vitis vinifera</i>	-0.5 a 0	31-32	90-95	2-8 weeks
American grape	<i>Vitis labrusca</i>	-1 a -0.5	30-31	90-95	1-6 months
Grapefruit	<i>Citrus paradisi</i>				
CA,AZ, dry regions		14-15	58-60	85-90	6-8 weeks
FL, humid regions		10-15	50-60	85-90	6-8 weeks
Guava	<i>Psidium guajava</i>	5-10	41-50	90	2-3 weeks
Horseradish	<i>Armoracia rusticana</i>	-1 a 0	30-32	98-100	10-12 months
Jaboticaba	<i>Myrciaria cauliflora</i> = <i>Eugenia cauliflora</i>	13-15	55-60	90-95	2-3 days
Jackfruit	<i>Artocarpus heterophyllus</i>	13	55	85-90	2-6 weeks
Japanese eggplant	<i>Solanum melongena</i>	8-12	46-54	90-95	1-2 weeks
Jerusalem artichoke	<i>Helianthus tuberosus</i>	-0.5-0	31-32	90-95	4 months
Jicama, Yambean	<i>Pachyrhizus erosus</i>	13-18	55-65	85-90	1-2 months
Kiwi; Chinese gooseberry	<i>Actinidia chinensis</i>	0	32	90-95	3-5 months
Kohlabi	<i>B. oleracea</i> var. <i>Gongylodes</i>	0	32	98-100	2-3 months
Kumquat	<i>Fortunella japonica</i>	4	40	90-95	2-4 weeks
Langsat	<i>Aglaia</i> spp.; <i>Lansium</i> spp.	11-14	52-58	85-90	2 weeks
Leek	<i>Allium porrum</i>	0	32	95-100	2 months
Lemon	<i>Citrus limon</i>	10-13	50-55	85-90	1-6 months
Lettuces	<i>Lactuca sativa</i>	0	32	98-100	2-3 weeks
Lime, Mexican, Tahiti or Persian	<i>Citrus aurantifolia</i> ; <i>C.</i> <i>latifolia</i>	9-10	48-50	85-90	6-8 weeks
Longan	<i>Dimocarpus longan</i> = <i>Euphoria longan</i>	1-2	34-36	90-95	3-5 weeks
Loquat	<i>Eriobotrya japonica</i>	0	32	90	3 weeks
Luffa; Chinese okra	<i>Luffa</i> spp.	10-12	50-54	90-95	1-2 weeks
Lychee, Litchi	<i>Litchi chinensis</i>	1-2	34-36	90-95	3-5 weeks
Malanga, Tania, New cocoyam	<i>Xanthosoma sagittifolium</i>	7	45	70-80	3 months
Mamey	<i>Calocarpum mammosum</i>	13-15	55-60	90-95	2-3 weeks
Mandarin, Tangerine	<i>Citrus reticulata</i>	4	40	90-95	2-4 weeks
Mango	<i>Mangifera indica</i>	13	55	85-90	2-3 weeks
Mangosteen	<i>Garcinia mangostana</i>	13	55	85-90	2-4 weeks
Melon					
Cantaloupe melon	<i>Cucurbita melo</i> var. <i>retrovatus</i>	2-5	36-41	95	2-3 weeks
Casaba, Crenshaw, Honeydew, etc	<i>Cucurbita melo</i>	7-10	45-50	90-95	2-3 weeks
Mint	<i>Mentha</i> spp.	0	32	95-100	2-3 weeks

Common Name in English	Scientific Name	Temperature		R.H. %	Approximate Shelf-life
		°C	°F		
Mombin, Jobo, Hog plum	<i>Spondias spp.</i>	13	55	85-90	1-2 weeks
Mushrooms	<i>Agaricus y otros géneros</i>	0	32	90	7-14 days
Nectarine	<i>Prunus persica</i>	-0.5-0	31-32	90-95	2-4 weeks
Okra	<i>Abelmoschus esculentus</i>	7-10	45-50	90-95	7-10 days
Olives, fresh	<i>Olea europea</i>	5-10	41-50	85-90	4-6 weeks
Onions	<i>Allium cepa</i>				
Mature onion bulbs		0	32	65-70	1-8 months
Green onions		0	32	95-100	3 weeks
Orange	<i>Citrus sinensis</i>				
CA, AZ, dry regions		3-9	38-48	85-90	3-8 weeks
FL; humid regions		0-1	32-34	85-90	8-12 weeks
Blood orange		4-7	40-44	90-95	3-8 weeks
Oregano, fresh	<i>Origanum vulgare</i>	0-5	32-41	90-95	1-2 weeks
Papaya	<i>Carica papaya</i>	7-13	45-55	85-90	1-3 weeks
Parsley	<i>Petroselinum crispum</i>	0	32	95-100	1-2 months
Parsnips	<i>Pastinaca sativa</i>	0	32	95-100	4-6 months
Passionfruit	<i>Passiflora spp.</i>	10	50	85-90	3-4 weeks
Peach	<i>Prunus persica</i>	-0.5-0	31-32	90-95	2-4 weeks
Pear	<i>Pyrus communis</i>	-1.5-0.5	29-31	90-95	2-7 months
Peas, pod	<i>Pisum sativum</i>	0	32	95-98	1-2 weeks
Snow peas	<i>Pisum sativum</i>	0-1	32-34	90-95	1-2 weeks
Southern peas; cowpeas	<i>Vigna sinensis</i> = <i>V. unguiculata</i>	4-5	40-41	95	6-8 days
Peppers					
Bell Pepper	<i>Capsicum annuum</i>	7-10	45-50	95	2-3 weeks
Hot peppers, Chiles	<i>Capsicum annuum y C. frutescens</i>	5-10	41-50	85-95	2-3 weeks
Dried hot chiles	<i>C. annuum y C. frutescens</i>	0-10	32-50	55-65	6 months
Persimmon	<i>Dispyros kaki</i>	-1	30	90	3-4 months
Pineapple	<i>Ananas comosus</i>	7-13	45-55	85-90	2-4 weeks
Plantain	<i>M. paradisiaca var. paradisiaca</i>	13-15	56-59	90-95	1-5 weeks
Plums and Prunes	<i>Prunus domestica</i>	-0.5 - 0	31-32	90-95	2-5 weeks
Pomegranate	<i>Punica granatum</i>	5	41	90-95	2-3 months
Potato	<i>Solanum tuberosum</i>				
early crop		10-15	50-59	90-95	10-14 days
late crop		4-12	40-54	95-98	5-10 months
Pummelo	<i>Citrus grandis</i>	7-9	45-48	85-90	12 weeks
Pumpkin	<i>Cucurbita maxima</i>	12-15	54-59	50-70	2-3 months
Quince	<i>Cydonia oblonga</i>	-0.5-0	31-32	90	2-3 months
Raddichio	<i>Cichorium intybus</i>	0-1	32-34	95-100	3-4 weeks
Radish	<i>Raphanus sativus</i>	0	32	95-100	1-2 months
Rambutan	<i>Nephelium lappaceum</i>	12	54	90-95	1-3 weeks
Raspberries	<i>Rubus idaeus</i>	-0.5-0	31-32	90-95	3-6 days
Rhubarb	<i>Rheum rhaponticum</i>	0	32	95-100	2-4 weeks
Rutabaga	<i>B. napus var. Napobrassica</i>	0	32	98-100	4-6 months

Common Name in English	Scientific Name	Temperature		R.H. %	Approximate Shelf-life
		°C	°F		
Sage	<i>Salvia officinalis</i>	0	32	90-95	2-3 weeks
Salsify, Vegetable oyster	<i>Trapopogon porrifolius</i>	0	32	95-98	2-4 months
Santol	<i>Sandoricum indicum</i>	7-9	45-48	85-90	3 weeks
Sapodilla	<i>Achras sapota</i>	15-20	59-68	85-90	2 weeks
Sour cherries	<i>Prunus cerasus</i>	0	32	90-95	3-7 days
Soursop	<i>Annona muricata</i>	13	55	85-90	1-2 weeks
Spinach	<i>Spinacia oleracea</i>	0	32	95-100	10-14 days
Sprouts from seeds	various genera	0	32	95-100	5-9 days
Squash, summer	<i>Cucurbita pepo</i>	5-10	41-50	95	1-2 weeks
Squash, winter	<i>Cucurbita moschata</i> ; <i>C. maxima</i>	12-15	54-59	50-70	2-3 months
Strawberry	<i>Fragaria spp.</i>	0	32	90-95	7-10 days
Sugar apple; Custard apple	<i>Annona squamosa</i> ; <i>Annona spp.</i>	7	45	85-90	4 weeks
Sweet cherries	<i>Prunus avium</i>	-1 to -0.5	30-31	90-95	2-3 weeks
Sweet corn	<i>Zea mays</i>	0	32	95-98	5-8 days
Sweetpotato	<i>Ipomea batatas</i>	13-15	55-60	85-95	4-7 months
Tamarillo, Tree tomato	<i>Cyphomandra betacea</i>	3-4	37-40	85-95	10 weeks
Tamarind	<i>Tamarindus indica</i>	2-7	36-45	90-95	3-4 weeks
Taro, Cocoyam, Eddoe, Dasheen	<i>Colocasia esculenta</i>	7-10	45-50	85-90	4 months
Thyme	<i>Thymus vulgaris</i>	0	32	90-95	2-3 weeks
Tomatillo; Husk tomato	<i>Physalis ixocarpa</i>	7-13	45-55	85-90	3 weeks
Tomato	<i>Lycopersicon esculentum</i>	10-13	50-55	90	1-3 weeks
Turnip	<i>B. campestris var. Rapifera</i>	0	32	95	4-5 months
Water Chestnuts	<i>Eleocharis dulcis</i>	1-2	32-36	98-100	1-2 months
Watercress; garden cress	<i>Lepidium sativum</i> ; <i>Nasturtium officinales</i>	0	32	95-100	2-3 weeks
Watermelon	<i>Citrullus vulgaris</i>	10-15	50-60	90	2-3 weeks
White sapote	<i>Casimiroa edulis</i>	20	68	85-90	2-3 weeks
Winged Bean	<i>Psophocarpus tetragonolobus</i>	10	50	90	4 weeks
Yam	<i>Dioscorea spp.</i>	15	59	70-80	2-7 months

Sources include unpublished information and:

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