

Tucson Cactus and Succulent Society

Presents

ABC - 123 CARE CODE*

While the different requirements for all species cannot possibly be covered in a simple code with only 9 permutations, a code with more variables might be too complex to be workable and would then be of no use to the general public. This simple code has thus far been quite useful in giving general guidelines for plant lists and was designed for the climate in and around Tucson and cannot be applied to other areas without modifying the codes appropriately. This would mean that in hotter areas, like Phoenix, many of the "A" rated plants would become "B"s and in areas with long sustained cold periods and lower temperatures the cold hardiness would not be accurate. This code was also designed with mature plants, not seedlings, in mind and also for plants that are receiving adequate care (water and fertilizer).

* Courtesy of Miles To Go

NOTES:

- 1. The first list is sorted alphabetically by Botanical Name; followed by lists sorted by Full Sun, Partial Shade, and Shade.**
- 2. Some plant names may have changed since this information was compiled. We will be updating as time permits.**

A - FULL SUN - Species that will tolerate day long full summer sun.

B - PARTIAL SHADE - Species which require some protection from prolonged hot sun, but which will tolerate about a half-day of full summer sun. Often these species prefer morning sun and afternoon shade.

C - SHADE - Species that will tolerate only a few hours of morning sun in the summer, if that. These species will often tolerate considerable winter sun and generally do well planted so that they can take advantage of the annual shift in the sun's angle.

1 - FULL COLD - Species that will tolerate full cold without protection. Most of the species have only been tested down to 18F for the duration which occur around Tucson. Some of the species rated "1" are probably not hardy to the extreme temperatures in some locations around Tucson which will drop to the low teens in colder years.

2 - SOME COLD PROTECTION - These species will often survive the winter without injury in the warmer Tucson locations without any additional cover. However in the colder locations or during cold years, they will need to be covered. Often, only the tender tips are susceptible to cold and a covering of burlap or other cloth is adequate.

3 - TENDER - These species are damaged by any frost, even when covered. Those species rated with an "A" or "B" often makes good potted plants for the patio, but care must be taken to move them inside during the winter.

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
A1	<i>Acanthocalycium klimpelianum</i>	B1	<i>Agave utahensis v. utahensis</i>
A1	<i>Acanthocalycium peitscherianum</i>	B3	<i>Agave verschafeldii cv. 'Ohi Raijin'</i>
A1	<i>Acanthocalycium violaceum</i>	B1	<i>Agave victoria-reginae</i>
A3	<i>Adansonia fony</i>	B1	<i>Agave victoria-reginae ornata</i>
B3	<i>Adenia fruticosa</i>	B1	<i>Agave victoria-reginae v. compacta</i>
B3	<i>Adenia glauca</i>	A1	<i>Agave x Leopoldtii</i>
B3	<i>Adenia venenata</i>	B3	<i>Alluadia procera</i>
B3	<i>Adenium arabicum</i>	B1	<i>Aloe aristata</i>
B3	<i>Adenium boehmianum</i>	B2	<i>Aloe aristata hybrid</i>
B3	<i>Adenium obesum</i>	A2	<i>Aloe barbadensis Healing Aloe</i>
B3	<i>Adenium obesum 'Bill Jones'</i>	B3	<i>Aloe brevifolia</i>
B3	<i>Adenium obesum hybrid</i>	B3	<i>Aloe ciliaris</i>
B3	<i>Adenium obesum ssp. multiflorum</i>	C3	<i>Aloe descoingsii</i>
B3	<i>Adenium somalense</i>	C3	<i>Aloe descoingsii X haworthioides</i>
B3	<i>Adenium somalense x A. obesum</i>	A2	<i>Aloe dichotoma</i>
B3	<i>Adenium swazicum</i>	C3	<i>Aloe dorothea</i>
B3	<i>Adenium swazicum</i>	A2	<i>Aloe ferox</i>
B3	<i>Adenium x Crimson Star</i>	B3	<i>Aloe harlinii</i>
B1	<i>Adromischus cooperi</i>	C3	<i>Aloe haworthioides</i>
B1	<i>Adromischus cristatus</i>	B1	<i>Aloe humilis</i>
B1	<i>Adromischus marianiae v. hallii</i>	B3	<i>Aloe jacunda</i>
B1	<i>Adromischus marianiae v. immaculatus</i>	A1	<i>Aloe longistyla</i>
B1	<i>Adromischus marianiae v. kubusensis</i>	A2	<i>Aloe marlothii</i>
B1	<i>Adromischus rupicolus</i>	B3	<i>Aloe melanocantha</i>
B1	<i>Adromischus schuldtianus</i>	B2	<i>Aloe nobilis</i>
B1	<i>Adromischus subviridus</i>	B3	<i>Aloe pegrerae</i>
C3	<i>Aeonium arboreum</i>	B3	<i>Aloe plicatilis</i>
C3	<i>Aeonium arboreum crest</i>	A3	<i>Aloe ramosissima</i>
C3	<i>Aeonium arboreum cv. Sunburst</i>	A2	<i>Aloe saponaria</i>
C3	<i>Aeonium decorum</i>	B3	<i>Aloe sincatana</i>
C3	<i>Aeonium tabulaeforme</i>	B2	<i>Aloe striata</i>
A1	<i>Agave americana medio-picta alba</i>	B3	<i>Aloe striata hybrid</i>
A1	<i>Agave angustifolia variegata</i>	A1	<i>Aloe variegata hybrid</i>
A2	<i>Agave bovicronuta</i>	A1	<i>Aloe variegata Partridge Breast</i>
A1	<i>Agave colorata</i>	A3	<i>Aloe wickensii</i>
A1	<i>Agave colorata dwarf</i>	B3	<i>Aloe x Doran Black</i>
A1	<i>Agave felgeri</i>	B3	<i>Aloe x Lizard Lips</i>
A1	<i>Agave ferdinand-regis</i>	B3	<i>Aloe zanzibarica</i>
A1	<i>Agave ferdinand-regis X scabra</i>	B1	<i>Aloinopsis shooneesii</i>
A1	<i>Agave filifera</i>	B2	<i>Ammocharis coranica</i>
A1	<i>Agave geminiflora</i>	B3	<i>Anacampseros rufescens</i>
B3	<i>Agave ghiesbreghtii</i>	B3	<i>Anacampseros rufescens cv. Sunrise</i>
B3	<i>Agave guadalajarana</i>	B3	<i>Anacampseros telephastrum</i>
A1	<i>Agave murphyi</i>	A1	<i>Ancistrocactus uncinatus (Hamatocactus) v. wrightii</i>
A1	<i>Agave ochiai</i>	C3	<i>Aporocactus flagelliformis</i>
B2	<i>Agave parrasana</i>	B2	<i>Ariocarpus agavooides</i>
A1	<i>Agave parryi v. couesii</i>	A1	<i>Ariocarpus fissuratus v. fissuratus</i>
A1	<i>Agave parryi v. huachucensis</i>	B1	<i>Ariocarpus fissuratus v. hintonii</i>
A2	<i>Agave parryi v. patoni</i>	A1	<i>Ariocarpus fissuratus v. lloydii</i>
A1	<i>Agave parryi v. truncata</i>	B1	<i>Ariocarpus kotschoubeyanus</i>
A1	<i>Agave parviflora</i>	B1	<i>Ariocarpus kotschoubeyanus elephantidens</i>
B3	<i>Agave potatorum</i>	B1	<i>Ariocarpus kotschoubeyanus v. albiflora</i>
B2	<i>Agave sp. FO76 (Sierra Mixteca)</i>	A1	<i>Ariocarpus retusus v. furfuraceus</i>
A1	<i>Agave stricta</i>	A1	<i>Ariocarpus retusus v. retusus</i>
B2	<i>Agave stricta nana</i>	A1	<i>Ariocarpus retusus v. retusus "scapharostroides"</i>
A1	<i>Agave toumeyana v. bella</i>	A1	<i>Ariocarpus retusus v. retusus long grey tubercles</i>
B1	<i>Agave utahensis v. eboraspina</i>	A1	<i>Ariocarpus retusus v. retusus San Rafael form</i>
B1	<i>Agave utahensis v. nevadensis</i>	B1	<i>Ariocarpus scapharostrus</i>

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
B2	Ariocarpus trigonus	B3	Cereus peruvianus monstrose minima
C3	Astroloba dodsoniana	B3	Cereus tetragonus monstrose
C3	Astroloba herrei	C3	Ceropegia linearis ssp. woodii
B1	Astrophytum asterias	B1	Chamaecereus silvestrii
B1	Astrophytum asterias x A. capricorne	B1	Chamaecereus x Fire Chief Johnson hybrid
B1	Astrophytum capricorne	B1	Chamaecereus x Flame Johnson hybrid
B1	Astrophytum capricorne v. niveum	B1	Chamaecereus x King Kong
B1	Astrophytum capricorne x A. asterias	B1	Chamaecereus x Tourmaline
A1	Astrophytum coahuilense	B1	Chamaecereus x Yellow Peanut Johnson
A1	Astrophytum myriostigma	B1	Chameacereus x Mephisto Johnson hybrid
B1	Astrophytum myriostigma v. nudum	B1	Cheiridopsis candissimus
A1	Astrophytum myriostigma v. quadricostatum	B3	Cissus tuberosus
A1	Astrophytum ornatum	A2	Cleistocactus straussii Silver Torch
A1	Astrophytum ornatum "niveum"	B1	Cleistocactus X Oreocereus cv. Old Torch
C3	Astroworthia skinneri	A2	Cochemiea setispina
B3	Austrocephalocereus dolichospermaticus	B3	Coleocephalocereus geobelianus
B3	Austrocephalocereus estevesii	B3	Consolea rubescens
B1	Austrocephalocereus streckeri	B3	Copiapoa humilis
B3	Aztekium ritteri	B3	Copiapoa krainziana
B3	Azureocereus hertlingianus	B3	Copiapoa lembckeii
B3	Backebergia militaris	B3	Copiapoa marginata
B3	Backebergia militaris crest	B3	Copiapoa tenuissima
B2	Beaucarnea recurvata	B3	Copiapoa tenuissima monstrose
B2	Beaucarnea stricta	B3	Corallocarpus bainesii
C3	Blossfeldia liliputana	B2	Coryphantha andrea
B3	Bombax elypticum	B2	Coryphantha bumamma
B3	Borzicactus chacoanus crest	A1	Coryphantha cornifera
A1	Brachychiton australis	B1	Coryphantha durangensis
A1	Brachychiton rupestris	A1	Coryphantha echinus
B3	Buiningia brevicylindrica v. longispina	A2	Coryphantha elephantidens
B3	Buiningia purpureus	A1	Coryphantha erecta
A3	Bursera fagaroides	B1	Coryphantha fragrans
A2	Bursera microphylla	B1	Coryphantha henricksonii
A3	Bursera schlectendalii	A1	Coryphantha hesteri
A1	Calibanus hookeri	A1	Coryphantha macromeris
B3	Caralluma lutea	A1	Coryphantha poselgeriana
B3	Caralluma schweinfurthii	A1	Coryphantha recurvata
B3	Caralluma socotrina	B1	Coryphantha runyonii inermis
B3	Caralluma speciosa	B1	Coryphantha sulcata
A1	Carnegiea gigantea	B1	Coryphantha vivipara v. kiabensis
B3	Cephalocereus alensis crest	B1	Coryphantha vivipara v. neomexicana
B3	Cephalocereus chrysacanthus crest	B1	Coryphantha vivipara v. vivipara
B3	Cephalocereus euphorbioides crest	B2	Cotyledon ladismithensis
B3	Cephalocereus maxsonii	B2	Cotyledon ladismithensis variegata
B3	Cephalocereus palmeri	B2	Cotyledon orbiculata
B3	Cephalocereus palmeri crest	B2	Cotyledon orbiculata Chalk Sticks
B2	Cephalocereus polylophus	B2	Cotyledon sinus-alexandri
B2	Cephalocereus senilis	B2	Cotyledon undulata
B3	Cephalocereus senilis crest	C3	Crassula ausiensis v. giessii
B3	Cephalopentandra ecirrhosa	C3	Crassula columella
B3	Ceraria pygmaea	C3	Crassula cornuta ssp. pillansii
C3	Ceratozamia hildae	B3	Crassula falcata
A3	Cereus aethiops	C3	Crassula lycoptoides
A2	Cereus forbesii	C3	Crassula marnieriana
A2	Cereus grandicostatus	C3	Crassula ovallata
A2	Cereus peruvianus	C3	Crassula perforata
A2	Cereus peruvianus monstrose	B3	Crassula portulacea DWARF JADE
A2	Cereus peruvianus spiral form	B3	Crassula portulacea Jade Tree
B3	Cereus peruvianus monstrose Ming Thing	C3	Crassula portulacea variegata

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Code	Botanical Name	Code	Botanical Name
B3	Crassula portulacea 'Dwarf Hobbit'	C2	Echeveria harmsii
B3	Crassula portulacea 'Gollum'	C1	Echeveria lilacina
B3	Crassula portulacea 'Hobbit'	C2	Echeveria minima
C3	Crassula pyramidalis	C1	Echeveria nodulosa
C3	Crassula rupestris hybrid	C2	Echeveria purpusorum
C3	Crassula streyei	C1	Echeveria runyonii monstrose
C3	Crassula teres Rattlesnake Plant	C1	Echeveria setosa
C3	Crassula x Buddha's Temple	C1	Echeveria subsessilis
C3	Crassula x Christine	C2	Echeveria subsessilis variegata
C3	Crassula x Coralita	C2	Echeveria x Arlie Wright
C3	Crassula x Emerald	C1	Echeveria x Dondo
C3	Crassula x Fernwood	C2	Echeveria x Doris Taylor
C3	Crassula x Ivory Pagoda	C2	Echeveria x Firelight
C3	Crassula x Moonglow	C1	Echeveria x Lola
C3	Crassula x Morgan's Pink	C3	Echeveria x Mona Loa
C3	Crassula x Tiny Tim variegata	C3	Echeveria x Paul Bunyon
C2	Cremnosedum x Little Gem	C1	Echeveria x Perle von Nurnberg
B1	Cycas revoluta SAGO PALM	C1	Echeveria x Topsy Turvy
A2	Cyphostemma juttae	C2	Echeveria x Wavy Curls
A2	Cyphostemma juttae	A1	Echinocactus grusonii
B3	Cyphostemma montagnaci	B2	Echinocactus grusonii crest
B3	Cyphostemma sandersii	B2	Echinocactus grusonii albispina White Barrel
A1	Dasylirion longissima	A1	Echinocactus horizonthalonius v. horizonthalonius
A1	Dasylirion wheeleri	A1	Echinocactus ingens
B1	Delosperma bosseranum	A1	Echinocactus texensis
A1	Denmoza rhodacantha	B1	Echinocereus adustus
A1	Dioone edule	A1	Echinocereus baileyi
B3	Dioone spinulosum	A1	Echinocereus baileyi v. bruniespinus
B3	Dioscorea elephantipes	B1	Echinocereus berlandieri
B3	Discocactus albispinus HU 390	B1	Echinocereus coccineus v. inermis
B3	Discocactus alteolens HU 232	B1	Echinocereus coccineus v. paucispinus
B3	Discocactus araniespinus	B1	Echinocereus delaetii
B3	Discocactus bueneckeri	B1	Echinocereus enneacanthus
B3	Discocactus catingicola HU 392	A1	Echinocereus fendleri v. boyce-thompsonii
B3	Discocactus cephaliaciculosis HU 644	A1	Echinocereus fendleri v. rectispinus
B3	Discocactus chrysalophyllos HU 582	A1	Echinocereus fitchii
B3	Discocactus chrysalophyllus HU 582	B1	Echinocereus knippelianus v. knippelianus
B3	Discocactus horstii	B1	Echinocereus knippelianus v. kruegeri
B3	Discocactus insignis HU 347	B1	Echinocereus knippelianus v. reyesii
B3	Discocactus latispinus HU 146	B1	Echinocereus lauui
B3	Discocactus nigraetosus HU 448	A1	Echinocereus ledingii
B3	Discocactus placentiformis HU 105	B3	Echinocereus leucanthus (Wilcoxia albiflora)
B3	Discocactus pugionacanthus HU 402	B2	Echinocereus luteus
B3	Discocactus sp. nova HU 544	A1	Echinocereus melanocentrus
B3	Discocactus sp. nova HU 639	B1	Echinocereus morrallii
B3	Discocactus sp. nova HU 640	A1	Echinocereus nicholii
B3	Discocactus sp. nova HU 645	B1	Echinocereus nivosus
B3	Discocactus sp. nova HU 646	B3	Echinocereus pacificus
B3	Discocactus sp. nova HU 651	B1	Echinocereus pappilosus
B3	Discocactus subviridigriseus HU 438	B1	Echinocereus parkerii v. gonzalesii
B3	Dorstenia crispa	A1	Echinocereus pectinatus v. pectinatus
C3	Dudleya greenii cv. White Sprite	A1	Echinocereus pectinatus v. rigidissimus
B2	Dyckia marnier-lapostolle	B1	Echinocereus pectinatus v. rubispinus
C2	Echeveria affinis	B1	Echinocereus pentalophus
C2	Echeveria agavoides	B2	Echinocereus pentalophus crest
C2	Echeveria bella	B1	Echinocereus pentalophus monstrose
C1	Echeveria chihuahuaensis	B1	Echinocereus polyacanthus
C2	Echeveria derenbergii	A1	Echinocereus polyacanthus v. nova
C1	Echeveria glauca	B1	Echinocereus poselgerii (Wilcoxia)

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
B1	Echinocereus pulchellus v. pulchellus	B1	Echinopsis x Jean's Delight "Chamaelobivia"
B1	Echinocereus pulchellus v. weinbergii	B1	Echinopsis x June Noon Dimmitt hybrid
B1	Echinocereus reichenbachii v. albertii	B1	Echinopsis x Kawinai Chameacereus hybrid
B1	Echinocereus reichenbachii v. albispinus	B1	Echinopsis x Kent Sunrise "Chamealobivia"
B2	Echinocereus reichenbachii v. albispinus crest	B1	Echinopsis x Los Angeles Paramount hybrid
A1	Echinocereus rigidissimus	B1	Echinopsis x Mars Paramount hybrid
B2	Echinocereus russanthus v. vulpis-cauda	B1	Echinopsis x Mephisto Johnson hybrid
B1	Echinocereus scheerii v. obscurensis	B1	Echinopsis x Northern Lights Paramount hybrid
B1	Echinocereus scheeryi v. gentryi	B1	Echinopsis x Oh Wow! Dimmitt hybrid
B1	Echinocereus schmollii (Wilcoxia)	B1	Echinopsis x Pacific Sunset
B2	Echinocereus spinigemmatus	B1	Echinopsis x Pink and White Johnson hybrid
A1	Echinocereus stramineus	B1	Echinopsis x Pink Flamingo Chameacereus hybrid
B2	Echinocereus subinermis v. ochoterenae	B1	Echinopsis x Pink Glory
A1	Echinocereus triglochidaitus v. rosei	B1	Echinopsis x Ralph's Orange Chameacereus hybrid
A1	Echinocereus triglochidiatus SB201	B1	Echinopsis x Red King Paramount hybrid
A1	Echinocereus triglochidiatus v. gonacanthus	B1	Echinopsis x Red Meteor Paramount hybrid
A1	Echinocereus triglochidiatus v. mohavensis	B1	Echinopsis x Red Paramount Paramount hybrid
A1	Echinocereus triglochidiatus v. octacanthus	B3	Echinopsis x Red Riding Hood crest
B1	Echinocereus viridiflorus	B1	Echinopsis x Salmonella M2G hybrid
B1	Echinocereus viridiflorus v. correllii	B1	Echinopsis x Scarlett O'Hara Paramount hybrid
A1	Echinomastus intertextus	B1	Echinopsis x Son of Shot Scarlet Chameacereus hybrid
B1	Echinopsis ancistrophora crest	B1	Echinopsis x Stars & Stripes Paramount
B1	Echinopsis argentinensis	B1	Echinopsis x Sunset Paramount hybrid
B1	Echinopsis chloranthus	B1	Echinopsis x Toxic Waste Miles' To Go hybrid
B1	Echinopsis grandiflorus	B1	Echinopsis x Tropic Sunset Paramount hybrid
B1	Echinopsis hauscha v. rubra	B1	Echinopsis x Uncle Arthur Chameacereus hybrid
B1	Echinopsis multiplex crest	B1	Echinopsis x Volcanic Sunset Dimmitt hybrid
B1	Echinopsis pelecyrrachis	B1	Echinopsis x Watermelon Paramount
B1	Echinopsis silvestrii	B3	Echinopsis x White Knight variegate
B1	Echinopsis sp. nov. P255	B1	Echinopsis x White Peanut Chameacereus hybrid
B1	Echinopsis subdenudatum	B1	Echinopsis x Yellow Bird Chameacereus hybrid
B1	Echinopsis tubiflora cv. HAKUJOMARU	B1	Echinopsis multiplex crest Johnson's Pink Flowered Hedgehog
B1	Echinopsis turbinata	C3	Edithcolea grandis
B1	Echinopsis x "Pragochameacereus - Fric hybrid"	B1	Encephalocarpus strobiliformis
B1	Echinopsis x Apricot Glow Dimmitt hybrid	B1	Epithelantha micromeris
B1	Echinopsis x Arachnacot M2G hybrid	B1	Epithelantha micromeris v. rufispina
B1	Echinopsis x Atomic Paramount hybrid	B1	Epithelantha polycephala
B1	Echinopsis x Aurora Paramount hybrid	B1	Epithelantha unguispina
B1	Echinopsis x Barber Pole Paramount hybrid	A2	Erythrina flabelliformis
B1	Echinopsis x Betelguese Paramount hybrid	B1	Escobaria chihuahuensis
B1	Echinopsis x Blaze Paramount hybrid	B1	Escobaria vivipara v. bisbeeana
B1	Echinopsis x Blue Lights Paramount hybrid	B1	Escobaria zilziana
B1	Echinopsis x Blush Paramount hybrid	B2	Espostoa lanata
B1	Echinopsis x Bowl of Orange "Chamaelobivia"	B2	Espostoa melanostele
B1	Echinopsis x Cherry Red Bach's hybrid	B3	Espostoa melanostele v. nana
B1	Echinopsis x Dainty Bess Paramount hybrid	B3	Espostoa mirabolis
B1	Echinopsis X Epic B&B hybrid	B3	Espostoa ritteri
B1	Echinopsis x First Light Dimmitt hybrid	B3	Espostoa saxitilis v. densilanatus
B1	Echinopsis x Flaming Orange Chameacereus hybrid	B3	Euphorbia acruensis
B1	Echinopsis x Fluffy Ruffles Paramount hybrid	B3	Euphorbia aeruginosa
B1	Echinopsis x Flying Saucer	B3	Euphorbia ammak variegata
B1	Echinopsis x Giant Peanut Johnson hybrid	A1	Euphorbia antisyphilitica
B1	Echinopsis x Glorious	B3	Euphorbia bupleurifolia
B1	Echinopsis x Harlequin Paramount hybrid	B3	Euphorbia cactus
B1	Echinopsis x Hemaglow M2G hybrid	B3	Euphorbia canariensis
B1	Echinopsis x Hollyberry M2G hybrid	A3	Euphorbia candelabrum
B1	Echinopsis x Iridina M2G hybrid	C3	Euphorbia cap-saintmariensis
B1	Echinopsis x Iris Myers Chameacereus hybrid		
B1	Echinopsis x Japan NO 1 Chameacereus hybrid		

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
B3	Euphorbia carlsonii	B1	Fenestraria cv. "Fireworth"
C3	Euphorbia decaryi v. decaryi	B2	Fenestraria hybrids BABY TOES
C3	Euphorbia decaryi v. spirosticha	A1	Ferocactus chrysacanthus
B3	Euphorbia echinus	A1	Ferocactus covillei
B3	Euphorbia enopla	A2	Ferocactus cylindraceus v. tortulospinus
B3	Euphorbia ferox	A2	Ferocactus diguetii
B3	Euphorbia flanaganii arm crest	A2	Ferocactus echidne
B3	Euphorbia flanaganii MEDUSA'S HEAD	A2	Ferocactus fordii
B3	Euphorbia francoisii	A2	Ferocactus gatesii
B3	Euphorbia fruticosa "spines form"	B2	Ferocactus glaucescens
B3	Euphorbia fruticosa Blue form	A1	Ferocactus gracilis
B3	Euphorbia gorgonis	A1	Ferocactus gracilis v. coloratus
B3	Euphorbia grandicornis	A1	Ferocactus hamatacanthus v. hamatacanthus
B3	Euphorbia hermentiana	A1	Ferocactus hamatacanthus v. sinuatus
B2	Euphorbia horrida v. horrida	A1	Ferocactus herrerae
B3	Euphorbia horrida v. nova	A2	Ferocactus hystrix
B2	Euphorbia horrida v. striata	A1	Ferocactus latispinus
B2	Euphorbia horrida x polygona	A1	Ferocactus latispinus (yellow spined)
B3	Euphorbia inermis v. huttonae	B2	Ferocactus macrodiscus
B3	Euphorbia ingens monstrose	A2	Ferocactus nobilis
C3	Euphorbia knuthii	A1	Ferocactus orcuttii
B3	Euphorbia lactea	A1	Ferocactus peninsulae
B3	Euphorbia lactea crest	A1	Ferocactus pilosus
B3	Euphorbia lactea White Ghost	A2	Ferocactus pottsii v. alamosanus
B3	Euphorbia lactea variegate crest White Ghost Crest	A1	Ferocactus pringlei
B3	Euphorbia makallensis	A1	Ferocactus rectispinus
B3	Euphorbia mammillaris	B2	Ferocactus robustus
B3	Euphorbia mammillaris variegata	A1	Ferocactus schwarzii
B3	Euphorbia meloformis	B1	Ferocactus stainesii
C3	Euphorbia milii v. imperatae Mini Crown of Thorns	B1	Ferocactus viridescens
B3	Euphorbia nesmannii	A1	Ferocactus wislizenii
B2	Euphorbia obesa	A3	Ficus palmeri
B3	Euphorbia obesa crest	A3	Ficus petiolaris
B3	Euphorbia obesa hybrid	C3	Fockea edulis
B3	Euphorbia opuntioides	B3	Folotsia sp.
B3	Euphorbia piscidermis	A1	Fouquieria fasciculata
B3	Euphorbia polyacantha	A1	Fouquieria splendens
B3	Euphorbia polygona	B3	Frailea castanae
B3	Euphorbia polygona hybrid	B3	Frailea phaeodisca
B3	Euphorbia pulvinata	B2	Frithia pulchra
A2	Euphorbia resinifera	B3	Gasteraloe hybrid
B3	Euphorbia restricta	B3	Gasteria armstrongii
A1	Euphorbia rigida	B3	Gasteria armstrongii hybrid variegate
A2	Euphorbia rowleyana	B3	Gasteria batesiana
B3	Euphorbia samburuensis	C3	Gasteria liliputana
B3	Euphorbia squarrosa	B3	Gasteria nigricans v. marmorata
B3	Euphorbia stenoclada	B3	Gasteria nigricans variegata
B3	Euphorbia suzannae	C3	Gasteria obtusifolia
B3	Euphorbia suzannae crest	C3	Gasteria verruculosa
B3	Euphorbia symmetrica	C3	Gasteria x Frosty
B3	Euphorbia tirucallii	C3	Gasterorthia x Gordo
B3	Euphorbia tortirama	B2	Gonolobus (Matelea) cyclophyllus
A3	Euphorbia trigona	B2	Grahamia coahuilensis
A3	Euphorbia trigona Red Form	C1	Graptopetalum bellum (Tacitus)
B3	Euphorbia trigona variegata	C3	Graptopetalum superbum
B3	Euphorbia viguieri v. capuroniana	B1	Gymnocalycium beguinii v. senilis
B3	Euphorbia x Cocklebur	B1	Gymnocalycium gielsdorffianus
B3	Euphorbia x Thumbleina	B1	Gymnocalycium sauferi
B2	Faucaria tigrina TIGER JAWS	B1	Gymnocalycium subterraneus v. zaragozae

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
B1	<i>Gymnocalycium ysabelae</i>	C3	<i>Haworthia herrei v. herrei</i>
B1	<i>Gymnocalycium andrea v. longiflorum</i>	C3	<i>Haworthia herrei v. jacobseniana</i>
B1	<i>Gymnocalycium artigas</i>	C3	<i>Haworthia koelmaniorum</i>
B1	<i>Gymnocalycium baldianum</i>	C3	<i>Haworthia limifolia</i>
B1	<i>Gymnocalycium bayrianum</i>	C3	<i>Haworthia lockwoodii</i>
B1	<i>Gymnocalycium bruchii</i>	C3	<i>Haworthia magnifica v. magnifica</i>
B1	<i>Gymnocalycium cardenasianum</i>	C3	<i>Haworthia magnifica v. major</i>
B2	<i>Gymnocalycium damsii v. rotundolum</i>	C3	<i>Haworthia magnifica v. paradoxa</i>
B1	<i>Gymnocalycium denudatum</i>	C3	<i>Haworthia magnifica v. major</i>
B1	<i>Gymnocalycium doppianum</i>	C3	<i>Haworthia marumiana</i>
B1	<i>Gymnocalycium erinaceum</i>	C3	<i>Haworthia marumiana</i>
B2	<i>Gymnocalycium eurypleurum</i>	C3	<i>Haworthia maughanii</i>
B2	<i>Gymnocalycium fleischerianum</i>	C3	<i>Haworthia maughanii X truncata</i>
C3	<i>Gymnocalycium friedrichii Red Cap</i>	C3	<i>Haworthia minima</i>
B1	<i>Gymnocalycium friedrickii</i>	C3	<i>Haworthia mirabolis</i>
B1	<i>Gymnocalycium gibbosum</i>	C3	<i>Haworthia mutica</i>
B1	<i>Gymnocalycium horridispinum</i>	C3	<i>Haworthia nigra</i>
B1	<i>Gymnocalycium horstii</i>	C3	<i>Haworthia parksiana</i>
B1	<i>Gymnocalycium leeanum</i>	C3	<i>Haworthia pumila</i>
B1	<i>Gymnocalycium manzanense</i>	C3	<i>Haworthia pygmeae</i>
B1	<i>Gymnocalycium matoense</i>	C3	<i>Haworthia reinwardtii v. chalumnensis</i>
B1	<i>Gymnocalycium monvillei</i>	C3	<i>Haworthia reinwardtii v. chalwinii</i>
B1	<i>Gymnocalycium multiflorum</i>	C3	<i>Haworthia reinwardtii v. conspicua</i>
B2	<i>Gymnocalycium ousselianum</i>	C3	<i>Haworthia reinwardtii v. kaffirdriftensis</i>
B1	<i>Gymnocalycium paedophilum</i>	C3	<i>Haworthia reinwardtii v. tenuis</i>
B2	<i>Gymnocalycium pflanzii v. albopulpa</i>	C3	<i>Haworthia reinwardtii v. zebrina</i>
B2	<i>Gymnocalycium pflanzii v. camaparense</i>	C3	<i>Haworthia resendeana</i>
B1	<i>Gymnocalycium pflanzii v. marquezii</i>	C3	<i>Haworthia reticulata v. hurlingii</i>
B2	<i>Gymnocalycium ragonesii</i>	C3	<i>Haworthia reticulata v. reticulata</i>
A1	<i>Gymnocalycium saglione</i>	C3	<i>Haworthia retusa</i>
B1	<i>Gymnocalycium schroederianum</i>	C3	<i>Haworthia retusa (large)</i>
B1	<i>Gymnocalycium spegazzini</i>	C3	<i>Haworthia retusa fm. geraldii</i>
B2	<i>Gymnocalycium stenogonium</i>	C3	<i>Haworthia retusa v. acuminata</i>
B1	<i>Gymnocalycium tillianum</i>	C3	<i>Haworthia retusa v. dekenahii</i>
B1	<i>Gymnocalycium triacanthum</i>	C3	<i>Haworthia retusa v. multilineata</i>
B2	<i>Gymnocalycium valnicekianum</i>	C3	<i>Haworthia retusa X truncata</i>
B3	<i>Harrisia justbertii</i>	C3	<i>Haworthia retusa X truncata Harry Johnson III</i>
C3	<i>Hatiora salicornoides</i>	C3	<i>Haworthia roseoluteus</i>
C3	<i>Haworthia angustifolia Riebeeck East</i>	C3	<i>Haworthia scabra</i>
C3	<i>Haworthia attenuata</i>	C3	<i>Haworthia scabra v. morrisae</i>
C3	<i>Haworthia attenuata v. clariperla</i>	C3	<i>Haworthia sordida</i>
C3	<i>Haworthia baccata</i>	C3	<i>Haworthia springbokvlakensis</i>
C3	<i>Haworthia baccata X reinwardtii</i>	C3	<i>Haworthia translucens v. tenera</i>
C3	<i>Haworthia bolusii v. bolusii</i>	C3	<i>Haworthia truncata</i>
C3	<i>Haworthia browniana</i>	C3	<i>Haworthia turgida v. rodinii</i>
C3	<i>Haworthia coarctata v. coarctata</i>	C3	<i>Haworthia turgida v. turgida</i>
C3	<i>Haworthia coarctata v. coarctata greenii</i>	C3	<i>Haworthia unicolor</i>
C3	<i>Haworthia comptoniana</i>	C3	<i>Haworthia variegata</i>
C3	<i>Haworthia cooperi</i>	C3	<i>Haworthia venosa ssp. tessellata</i>
C3	<i>Haworthia cooperi v. leightonii</i>	C3	<i>Haworthia viscosa v. caespitosa</i>
C3	<i>Haworthia cymbiformis lepida</i>	C3	<i>Haworthia viscosa v. viscosa</i>
C3	<i>Haworthia cymbiformis mucronata</i>	C3	<i>Haworthia wooleyii</i>
C3	<i>Haworthia cymbiformis obtusa</i>	C3	<i>Haworthia x Fatso</i>
C3	<i>Haworthia cymbiformis transiens</i>	C3	<i>Haworthia x Manda's Hybrid</i>
C3	<i>Haworthia emelyae v. mutlifolia</i>	C3	<i>Haworthia xyphiophylla</i>
C3	<i>Haworthia fasciata</i>	C3	<i>Haworthia zantneriana</i>
C3	<i>Haworthia fouchei</i>	C3	<i>Haworthia emelyae (picta)</i>
C3	<i>Haworthia herbacea</i>	B3	<i>Herreroa dyeri</i>
C3	<i>Haworthia herrei v. glauca</i>	A1	<i>Hesperaloe funifera</i>

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
A1	Hesperaloe parviflora	B1	Lithops schwantesii v. christinae
B3	Hoodia gordonii	B1	Lithops verruculosa
B3	Hoodia macrantha	B1	Lobivia acanthoplegma v. rosieflora
B3	Hoodia (Trichocaulon) officinale	B1	Lobivia andalgalensis
B3	Huernia thuretii	B1	Lobivia arachnacantha
B3	Huernia zebrina	B1	Lobivia aurea red flowered form
B1	Ibervillea sonorae v. penninsulæ	B1	Lobivia aurea (syn. L. luteaflora) yellow flowered form
B2	Ibervillea tenuisecta	B1	Lobivia cardenasiana
A1	Idria columnaris BOOJUM	B1	Lobivia cinnabarina
A2	Ipomoea platense	B1	Lobivia ferox
B3	Jacarata hasseleriana	B1	Lobivia jajoiana v. nigristoma
B2	Jatropha cathartica =(bertlandieri)	B1	Lobivia kermisina
A3	Jatropha cordata	B1	Lobivia leucomalla
A3	Jatropha cuneata	B1	Lobivia obrepanda calorubra
B3	Jatropha plantanifolia	B1	Lobivia pojoensis v. grandiflora
B3	Jatropha podagrica	B1	Lobivia winteriana
B3	Kalanchoe beharensis minima	B1	Lobivia wrightiana
C3	Kalanchoe beharensis monstrose	A2	Lophocereus schottii Sonita
B3	Kalanchoe beharensis 'Fang'	A2	Lophocereus schottii monstrose TOTEM POLE
C3	Kalanchoe eriophylla	B3	Luckhoffia buekmannii
B3	Kalanchoe scapigera	B3	Luckhoffia buekmannii crest
B3	Kalanchoe thrysifolia	B3	Macrozamia moorei
C3	Kalanchoe tomentosa	B2	Malacocarpus sellowii
B3	Kalanchoe tomentosa Chocolate Soldier	B1	Mammillaria ahniana
B2	Lapidaria margaretae	B2	Mammillaria albicans
C3	Ledebouria socialis	B3	Mammillaria albiflora
A1	Leuchtenbergia principis	B2	Mammillaria albilanata
B1	Lithops aucampiae	B2	Mammillaria albilanata v. fauxiana
B1	Lithops bromfieldii	A1	Mammillaria apozolensis v. saltensis
B1	Lithops dorotheae	B1	Mammillaria auriehamata
B1	Lithops fulviceps v. lactinae	B1	Mammillaria aurielanata
B1	Lithops gesinae v. annae	B2	Mammillaria aurielanata fma. alba
B1	Lithops gracilidelineata	B1	Mammillaria bachmannii
B1	Lithops hallii	B3	Mammillaria bambusiphilla
B1	Lithops helmutii	B1	Mammillaria baumii
B1	Lithops hookeri	B3	Mammillaria baxteriana
B1	Lithops hookeri "vermiculate form"	B2	Mammillaria beiselii
B1	Lithops hookeri v. elephina	B3	Mammillaria benecke variegata
B1	Lithops hookeri v. sussannae	B2	Mammillaria berkeana
B1	Lithops jullii	A3	Mammillaria blossfeldiana
B1	Lithops karasmontana	B1	Mammillaria bocasana multilanata
B1	Lithops karasmontana v. eberlanzii	B1	Mammillaria bocasana roseiflora
B1	Lithops karasmontana v. lericheana	B2	Mammillaria bocasana monstrose cv. Fred
B1	Lithops karasmontana v. tischeri	A1	Mammillaria bocensis
B1	Lithops karasmontana [Mickbergensis]	B2	Mammillaria bombycina
B1	Lithops karasmontana [Summitatum]	A3	Mammillaria boolii
B1	Lithops lesliei	A1	Mammillaria buchareliensis
B1	Lithops lesliei "warrenton"	B2	Mammillaria camptotricha
B1	Lithops lesliei fma. albinica	A1	Mammillaria candida
B1	Lithops lesliei v. burchellii	B2	Mammillaria canelensis
B1	Lithops lesliei v. rubrobrunnea	B2	Mammillaria carmenae
B1	Lithops lesliei v. venteri	B1	Mammillaria carneae
B1	Lithops marmorata v. elishae	B2	Mammillaria carretii
B1	Lithops otzeniana	B2	Mammillaria casoi
B1	Lithops pseudotruncatella	B1	Mammillaria celsiana
B1	Lithops pseudotruncatella v. dendritica	B1	Mammillaria coahuilense (Porfuria schwartzii)
B1	Lithops ruschiorum	B3	Mammillaria columbiana
B1	Lithops salicola	A1	Mammillaria compressa
B1	Lithops schwantesii		

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Code	Botanical Name	Code	Botanical Name
B2	Mammillaria cowperae	B1	Mammillaria lloydii
A1	Mammillaria craigii Lau 086	B1	Mammillaria longiflora fma. longiflora
B1	Mammillaria crassimammillis	B1	Mammillaria longiflora fma. stampferi
B1	Mammillaria crispiseta	B1	Mammillaria longimamma v. longimamma
B1	Mammillaria crocidiata	B2	Mammillaria longimamma v. uberiformis
B2	Mammillaria crucigera	B1	Mammillaria macracantha
B2	Mammillaria dehertiana	B3	Mammillaria magnifica
B2	Mammillaria densispina	A1	Mammillaria magnimamma
B2	Mammillaria dixanthocentron	B1	Mammillaria mainiae
B3	Mammillaria duoformis	A3	Mammillaria maritima
B2	Mammillaria duraspina	B1	Mammillaria marksiana
B1	Mammillaria duwei	B3	Mammillaria matudae
B2	Mammillaria eichlamii	B1	Mammillaria meigeana
A1	Mammillaria elegans	B1	Mammillaria melaleuca
A1	Mammillaria elegans (San Jose Lacheguir)	A1	Mammillaria melanocentra
B1	Mammillaria elegans v. schmollii	B1	Mammillaria mendeliana
B1	Mammillaria elongata	B1	Mammillaria microhelia
B2	Mammillaria elongata crest	B1	Mammillaria microthele
B2	Mammillaria elongata crest Brown Brain	B1	Mammillaria moelleriana
B3	Mammillaria evermanniana	B1	Mammillaria montensis
B1	Mammillaria fittkauii	A1	Mammillaria morganiana
A1	Mammillaria formosa	A1	Mammillaria movensis Rio Yaqui form
B1	Mammillaria gasserana	B1	Mammillaria mystax
A1	Mammillaria geminispina	B1	Mammillaria napina
A1	Mammillaria geminispina nobilis	B1	Mammillaria nazasensis
A1	Mammillaria gigantea	A2	Mammillaria nejapensis
B1	Mammillaria glassii Lau 1357	B3	Mammillaria nivosa
B1	Mammillaria glassii v. nominis-dulcis	B1	Mammillaria obscura
B2	Mammillaria glochidiata	B1	Mammillaria obscura v. tortulospina
B1	Mammillaria grahamii (syn. M. microcarpa)	A1	Mammillaria octillensis
A1	Mammillaria grusonii	A1	Mammillaria pachycylindrica
B1	Mammillaria guelzowiana	B1	Mammillaria papasquiarensis
A3	Mammillaria guerreronis	A1	Mammillaria parkinsonii
B1	Mammillaria guillauminiana	B1	Mammillaria pectinifera
B1	Mammillaria haageana v. schmollii	A3	Mammillaria peninsularis
B1	Mammillaria hahniana	B1	Mammillaria pennispinosa
B2	Mammillaria heidiae	A1	Mammillaria perbella
B1	Mammillaria hemispherica	B1	Mammillaria perezdelarosae
B3	Mammillaria hernandezii	B1	Mammillaria pettersonii
B3	Mammillaria herrerae	B2	Mammillaria pilcayensis
B3	Mammillaria herrerae crest	B1	Mammillaria plumosa
B1	Mammillaria hertrichiana	A3	Mammillaria posegneri
B1	Mammillaria hildagensis	B1	Mammillaria pottsii
B3	Mammillaria hiutziopochtli	B1	Mammillaria priessnitzzii
B1	Mammillaria humboldtii	B1	Mammillaria pseudoperbella
B3	Mammillaria humboldtii (large form)	B2	Mammillaria rekoi v. aurispina
B1	Mammillaria infernillensis	B1	Mammillaria rekoi v. leptacantha
B1	Mammillaria johnstonii v. sancarlensis	B2	Mammillaria rettigiana
A1	Mammillaria karwinskiana	B1	Mammillaria rhodantha (syn. M. pringlei)
A1	Mammillaria klissingiana	B1	Mammillaria ritteriana
B1	Mammillaria knebeliana	B1	Mammillaria rubrograndis
B1	Mammillaria knuthii	B1	Mammillaria rubrograndis pale flowered
B1	Mammillaria kraehenbuehlii	B1	Mammillaria runyonii
B2	Mammillaria lanata	B1	Mammillaria saboae v. goldii
B1	Mammillaria lasiacantha	B1	Mammillaria saboae v. haudeana
B2	Mammillaria lauui fma. lauui	B1	Mammillaria saboae v. saboae
B2	Mammillaria lauui fma. subducta	B2	Mammillaria sartorii
B1	Mammillaria lenta	B1	Mammillaria schiedeana v. plumosa
B2	Mammillaria lindsayi	B1	Mammillaria schiedeana v. schiedeana

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
A3	Mammillaria schumannii v. globosa	C3	Melocactus pachyacanthus
A3	Mammillaria schumannii v. schumannii	C3	Melocactus rubrispinus
B1	Mammillaria schwarpii	C3	Melocactus violaceus
B1	Mammillaria scrippsiana	C3	Melocactus warasii
B1	Mammillaria sempervivi v. sempervivi	B1	Mestoklema tuberosa
B1	Mammillaria sempervivi v. tetracantha	B3	Micranthocereus streckeri
B1	Mammillaria senilis	A3	Momordica rostrata
A2	Mammillaria setispinus (Cochemiea)	B3	Monadenium coccineum
B2	Mammillaria solisioides	B3	Monadenium invenustum
A1	Mammillaria sonorensis	B3	Monadenium lugardae
B2	Mammillaria sp. Lau 1050 (S.J. Capistrano)	B3	Monadenium ritchiei
B1	Mammillaria sp. nova - heyderi group Ascencion, Neuvo Leon	B3	Monadenium rubellum
B1	Mammillaria sphaerica	B3	Monvillea spegazzini crest/monstrose
B2	Mammillaria spinosissima	B1	Morawetzia serricata
B2	Mammillaria spinosissima crest	A3	Moringa ovalifolia
B2	Mammillaria standleyi	B3	Myrtillocactus cochal crest
B2	Mammillaria supertexta	A2	Myrtillocactus geometrizans
B1	Mammillaria surculosa	A2	Myrtillocactus geometrizans crest
B2	Mammillaria swinglei	B1	Neobesseyea similis v. robustior
B1	Mammillaria taylororum	B3	Neobuxbaumia euphorbioides crest
B1	Mammillaria tesopacensis	B1	Neochilenia napina
B3	Mammillaria theresae	B1	Neochilenia pulchella
B2	Mammillaria tlalocii	B1	Neolloydia conoidea
B3	Mammillaria vallensis Tenango de Valle	B1	Neopoteria atrispinosa
B2	Mammillaria viperina	B1	Neopoteria laniceps
B2	Mammillaria wiesingeri	B1	Neopoteria nidus-senilis
B1	Mammillaria wildii	B1	Neopoteria occulta
A1	Mammillaria winterae	B1	Neopoteria paucicostata
B3	Mammillaria woburnensis	B1	Neopoteria scoparia
B1	Mammillaria woodsii	B1	Neopoteria sp.Lau 869 (de Taltal)
B1	Mammillaria wrightii	B1	Neopoteria wagenknechtii
B1	Mammillaria wrightii v. wilcoxii	B3	Neoramondia gigantea
B1	Mammillaria x Pink Nymph	B3	Neoramondia roseiflora
B1	Mammillaria zeilmanniana	B1	Notocactus agnetae
B1	Mammillaria zephyranthoides	B1	Notocactus antangularis
B3	Matucana aurieflora	B1	Notocactus apricus
B3	Matucana formosa	B2	Notocactus buiningii
B3	Matucana madisoniorum	B1	Notocactus claviceps
B3	Matucana mammillaris KK 1638	B1	Notocactus elegans
B2	Matucana paucicostata	B1	Notocactus euginiae
B3	Matucana weberbaueri	B1	Notocactus glaucinus v. depressus
C3	Melocactus axinophorus	B1	Notocactus graessneri
C3	Melocactus azulensis	C2	Notocactus haselbergii
C3	Melocactus azureus	B2	Notocactus herteri
C3	Melocactus broadwayi	B1	Notocactus horstii
C3	Melocactus concinnus	B1	Notocactus leninghausii
C3	Melocactus conoides	B1	Notocactus magnificus
C3	Melocactus deynacanthus	B1	Notocactus mammulosus
C3	Melocactus diersianus	B2	Notocactus purpureus
C3	Melocactus disciformis	B1	Notocactus roseoluteus
C3	Melocactus ernestii	B1	Notocactus rosiflorus
C3	Melocactus ferrophillus v. longispinus	B2	Notocactus rudibuenecieri
C3	Melocactus guitarti	B1	Notocactus rutilans
C3	Melocactus iacuensis HU 166	B1	Notocactus schlosseri
C3	Melocactus lentselinkianus	B3	Notocactus scopa v. murriellii
C3	Melocactus macrodiscus	B3	Notocactus scopa v. prolifera
C3	Melocactus matanzanus	B3	Notocactus scopa v. scopa
C3	Melocactus neomontanus	B3	Notocactus scopa variegata
		B2	Notocactus succineus

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
B2	<i>Notocactus succineus</i> v. <i>albispinus</i>	B3	<i>Parodia auriespina</i>
B1	<i>Notocactus tureczekianus</i>	B3	<i>Parodia chrysacanthion</i>
B1	<i>Notocactus uebelmannianus</i>	B3	<i>Parodia fuscato-viridis</i>
B1	<i>Notocactus vanvlietii</i>	B3	<i>Parodia herzogii</i>
B1	<i>Notocactus warasii</i>	B3	<i>Parodia lauii</i>
B1	<i>Notocactus winkleri</i>	B3	<i>Parodia mairanana</i>
B1	<i>Obregonia denegrii</i>	B3	<i>Parodia massii</i>
A3	<i>Operculicarya decaryi</i>	B3	<i>Parodia nivosa</i>
A1	<i>Opuntia arbuscula</i>	B3	<i>Parodia penicillata</i>
A1	<i>Opuntia basilaris</i>	B3	<i>Parodia rubellihamata</i>
A1	<i>Opuntia basilaris monstrose</i>	B3	<i>Parodia rubida</i>
A1	<i>Opuntia basilaris X violacea</i> v. <i>Santa Rita</i>	B1	<i>Parodia sanguiniflora</i>
A1	<i>Opuntia engelmannii</i> v. <i>alta</i>	B1	<i>Pediocactus despainii</i>
A1	<i>Opuntia erinacea</i>	B1	<i>Pediocactus simpsonii</i> v. <i>minor</i>
A1	<i>Opuntia fragilis</i> v. <i>denudata</i>	B1	<i>Pelecyphora aselliformis</i>
A1	<i>Opuntia fulgida</i> crest	B1	<i>Peniocereus greggii</i> Queen of the Night
A1	<i>Opuntia leptocaulis</i>	B2	<i>Peniocereus marianus</i>
A1	<i>Opuntia microdasys monstrose</i>	A2	<i>Pereskia diaz-romeroana</i>
A1	<i>Opuntia microdasys</i> v. <i>albata</i>	A2	<i>Pereskia grandiflora</i>
A1	<i>Opuntia microdasys</i> v. <i>albispina</i>	A2	<i>Pereskia weberiana</i>
A1	<i>Opuntia microdasys</i> v. <i>microdasys</i>	B3	<i>Piaranthus foetidus</i>
A1	<i>Opuntia microdasys</i> v. <i>rufida</i>	B3	<i>Pilosocereus azureus</i>
A1	<i>Opuntia molesta</i>	B3	<i>Pilosocereus gounellei</i>
B1	<i>Opuntia picardoi</i>	B3	<i>Pilosocereus magnificus</i>
A1	<i>Opuntia ramosissima</i>	B3	<i>Pilosocereus pachycladus</i>
A1	<i>Opuntia robusta</i>	B3	<i>Pilosocereus palmeri</i>
A2	<i>Opuntia subulata</i>	B3	<i>Pilosocereus superfloccosus</i>
A2	<i>Opuntia subulata</i> crest	B3	<i>Pilosocereus tillianus</i>
B2	<i>Opuntia vestita</i>	B1	<i>Pleospilos bolusii</i>
A1	<i>Opuntia violacea</i> v. <i>macrocentra</i>	B2	<i>Pleospilos nelii</i>
A1	<i>Opuntia violacea</i> v. <i>santa-rita</i>	B2	<i>Polaskia chichipe</i>
B2	<i>Opuntia vulgaris</i> variegata cv. <i>Maverick</i>	B3	<i>Portulacaria afra</i>
B3	<i>Orbea melanantha</i>	B3	<i>Portulacaria afra</i> variegata
B3	<i>Orbea pulchella</i> PVB 4262 Humewood, Port Elizabeth	B1	<i>Pterocactus australis</i>
B2	<i>Oreocereus celsianus</i>	B1	<i>Pterocactus fischeri</i>
B2	<i>Oreocereus henricksenianus</i> v. <i>densilanatus</i>	B1	<i>Pterocactus gonjiani</i>
B3	<i>Oreocereus neocelsianus</i> crest	B1	<i>Pterocactus hickenii</i>
B1	<i>Oreocereus trollii</i> v. <i>trollii</i>	B1	<i>Pterocactus kuntzii</i>
B1	<i>Oreocereus fossulatus</i> x <i>Cleistocactus straussii</i> cv. James Pickering	B1	<i>Pterocactus meglioli</i>
B2	<i>Oroya peruviana</i>	B1	<i>Pterocactus valentinii</i>
B2	<i>Ortegocactus macdougallii</i>	B1	<i>Puna bonniea</i>
A3	<i>Pachycereus pringlei</i>	B1	<i>Puna clavarioides</i>
A3	<i>Pachycormus discolor</i>	B1	<i>Puna subterraneae</i>
C1	<i>Pachyphytum amethystinum</i>	B2	<i>Pyrrhocactus bulbocalyx</i>
C1	<i>Pachyphytum oviferum</i>	B3	<i>Raphionacme flanaganii</i>
C1	<i>Pachyphytum oviferum</i> hybrid	B3	<i>Rathbunia alamosanus</i> crest
B3	<i>Pachypodium baronii</i> v. <i>windsorii</i>	C1	<i>Rebutia albipilosa</i>
B3	<i>Pachypodium bispinosum</i>	C1	<i>Rebutia donaldiana</i>
A3	<i>Pachypodium geayi</i>	C1	<i>Rebutia flavistylla</i>
B3	<i>Pachypodium horombense</i>	C1	<i>Rebutia glomeriseta</i>
A3	<i>Pachypodium lamerei</i>	C1	<i>Rebutia graciliflora</i> v. <i>borealis</i>
B3	<i>Pachypodium lamerei</i> v. <i>ramosum</i>	C1	<i>Rebutia heliosa</i> v. <i>condorensis</i>
B2	<i>Pachypodium namaquanum</i>	C1	<i>Rebutia heliosa</i> v. <i>heliosa</i>
B3	<i>Pachypodium rosulatum</i>	C1	<i>Rebutia jujuyana</i>
B3	<i>Pachypodium saundersii</i>	C1	<i>Rebutia krainziana</i>
B3	<i>Pachypodium succulentum</i>	C1	<i>Rebutia kupperiana</i>
C2	<i>Pachyveria</i> hybrid	C1	<i>Rebutia marsoneri</i>
		C1	<i>Rebutia miniscula</i>
		C1	<i>Rebutia muscula</i>

Alphabetical Plant List

Code	Botanical Name	Code	Botanical Name
C1	Rebutia perplexa	B1	Sulcorebutia frankiana
C1	Rebutia pulchella	B1	Sulcorebutia glomeriseta
C1	Rebutia pygmaea	B1	Sulcorebutia mentosa
C1	Rebutia violacea	B1	Sulcorebutia rauschii
C1	Rebutia albiflora R. heliosa cv. Sunrise	B1	Sulcorebutia rauschii (green form)
C1	Rosularia platyphylla	A1	Talinum aurantiacum
B3	Sansevieria kirkii pulchra	A1	Tephrocactus articulatus
B3	Sansevieria singularis	A1	Tephrocactus articulatus inermis
B3	Sarcocaulon multifidum	B1	Tephrocactus glomeratus
B3	Sarcocaulon penniculum	B1	Tephrocactus inarmatus
B3	Sarcocaulon vanderietiae	A1	Tephrocactus paediophylla
B1	Sclerocactus glaucus	A1	Thelocactus bicolor v. bicolor
B1	Sclerocactus mesae-verdae	A1	Thelocactus bicolor v. bolaensis
B1	Sclerocactus parviflorus	A1	Thelocactus bicolor v. flavidispinus
B1	Sclerocactus spinosior	A1	Thelocactus bicolor v. schottii
B1	Sclerocactus spinosior v. schlesseri	A1	Thelocactus bicolor v. tricolor
B1	Sclerocactus wetlandicus	B1	Thelocactus heterochromus
B1	Sclerocactus whipplei	A1	Thelocactus hexaedrophorus
B1	Sclerocactus wrightiae	B1	Thelocactus lausseri
C3	Sedum furfuraceum	B1	Thelocactus leucacanthus v. schmollii
B2	Sedum prealtum crest	A1	Thelocactus macdowellii
B3	Sedum torulosum	A1	Thelocactus rinconensis
C1	Sempervivum aracnoideum	B1	Thelocactus setispinus
C1	Sempervivum calcareum	A1	Thelocactus setispinus fma. flavibaccatus
C1	Sempervivum tectorum	B3	Thrixantocereus blossfeldianus
B3	Senecio crassissimus	B1	Titanopsis calcareum
B3	Senecio herreianus variegata	B2	Titanopsis hugo-schlechteri
B3	Senecio macroglossus variegata	B1	Toumeya papyracantha
B3	Senecio repens	B3	Trichocereus camarguensis crest
B3	Senecio saginata	B2	Trichocereus chilensis
B3	Senecio stapeliaformis	A1	Trichocereus macrogonus
B3	Seyrigia humbertii	B2	Trichocereus pachanoi crest
B3	Stapelia gettleffii	A2	Trichocereus pachanoi SAN PEDRO
B3	Stapelia leendertziae crest	A1	Trichocereus pasacana
B3	Stapelia nobilis	A2	Trichocereus peruvianus
A1	Stenocactus coptogonus	B1	Trichocereus poco
A1	Stenocactus lloydii	A1	Trichocereus tarijensis
A1	Stenocactus longispinus	A1	Trichocereus terscheckii v. montanus
A1	Stenocactus parksianus	A1	Trichocereus terscheckii v. terscheckii
A1	Stenocactus pentacanthus	B1	Trichocereus thelogonus crest
A1	Stenocactus phiacanthus v. violaciflorus	B1	Trichodiadema bulbosum
A1	Stenocactus sp. nova Lau 738 Rio de Mayo	B1	Trichodiadema densum
A3	Stenocereus dumortieri	B1	Turbinicarpus lauii
B3	Stenocereus eruca	B1	Turbinicarpus lophophoroides
B3	Stenocereus hollianus crest	B1	Turbinicarpus pseudomacrochele v. krainzianus
A2	Stenocereus marginatus	B1	Turbinicarpus pseudomacrochele v. pseudomacrochele
B3	Stenocereus pruinosus	B1	Turbinicarpus pseudopectinatus
B3	Stenocereus pruinosus	B1	Turbinicarpus roseiflora
B3	Stenocereus pruinosus	B1	Turbinicarpus schmiedickianus v. dickisoniae
A2	Stenocereus thurberi	B1	Turbinicarpus schmiedickianus v. flaviflorus
B3	Stenocereus thurberi crest	B1	Turbinicarpus schmiedickianus v. gracilis
A3	Stenocereus victoriensis	B1	Turbinicarpus schmiedickianus v. klinkerianus
A3	Stenocereus victoriensis crest	B1	Turbinicarpus schmiedickianus v. macrochele
B3	Stephanocereus leucostele	B1	Turbinicarpus schmiedickianus v. schmiedickianus
A1	Stetsonia coryne	B1	Turbinicarpus schmiedickianus v. schwarzi
B3	Stetsonia coryne monstrose	B1	Turbinicarpus swobodae
B1	Sulcorebutia arenacea	B1	Turbinicarpus valdezianus (purple flowered)
B1	Sulcorebutia candiae	B1	Turbinicarpus valdezianus albiflora
B1	Sulcorebutia crispata		

Alphabetical Plant List

Code Botanical Name

B2 Tylecodon sinus-alexandrii
 B3 Uebelmannia buiningii
 B3 Uebelmannia crebispina
 B3 Uebelmannia flavispina
 B3 Uebelmannia gummifera
 B3 Uebelmannia meninensis
 B3 Uebelmannia meninensis rubra
 B3 Uebelmannia pectinifera
 B3 Uebelmannia pectinifera multicostata
 B3 Weingartia erinacea v. catarinense
 B3 Weingartia lanata
 B3 Weingartia neumanniana
 B3 Winterocereus auriespinus
 B3 Winterocereus auriespinus crest
 C1 x Graptoveria Amethorum

Code Botanical Name

C2 x Graptoveria Debbie
 C1 x Graptoveria Silver Star
 B2 x Pachyveria hybrid cristate
 A1 Yucca australis
 A1 Yucca baccata
 A1 Yucca carnerosana (Y. faxoniana)
 A1 Yucca elata
 A1 Yucca filifera
 A1 Yucca rostrata
 A1 Yucca schottii
 A1 Yucca thompsonii
 B3 Zamia furfuracea CARDBOARD PALM
 B3 Zamia pumilla

Cactus & Succulents for the Full Sun

Code Botanical Name

A1	<i>Acanthocalycium klimpelianum</i>
A1	<i>Acanthocalycium peitscherianum</i>
A1	<i>Acanthocalycium violaceum</i>
A1	<i>Agave americana medio-picta alba</i>
A1	<i>Agave angustifolia variegata</i>
A1	<i>Agave colorata</i>
A1	<i>Agave colorata dwarf</i>
A1	<i>Agave felgeri</i>
A1	<i>Agave ferdinand-regis</i>
A1	<i>Agave ferdinand-regis X scabra</i>
A1	<i>Agave filifera</i>
A1	<i>Agave geminiflora</i>
A1	<i>Agave murphyi</i>
A1	<i>Agave ochiai</i>
A1	<i>Agave parryi v. couesii</i>
A1	<i>Agave parryi v. huachucensis</i>
A1	<i>Agave parryi v. truncata</i>
A1	<i>Agave parviflora</i>
A1	<i>Agave stricta</i>
A1	<i>Agave toumeyana v. bella</i>
A1	<i>Agave x Leopoldtii</i>
A1	<i>Aloe longistyla</i>
A1	<i>Aloe variegata hybrid</i>
A1	<i>Aloe variegata Partridge Breast</i>
A1	<i>Ancistrocactus uncinatus (Hamatocactus) v. wrightii</i>
A1	<i>Ariocarpus fissuratus v. fissuratus</i>
A1	<i>Ariocarpus fissuratus v. lloydii</i>
A1	<i>Ariocarpus retusus v. furfuraceus</i>
A1	<i>Ariocarpus retusus v. retusus</i>
A1	<i>Ariocarpus retusus v. retusus "scapharostroides"</i>
A1	<i>Ariocarpus retusus v. retusus long grey tubercles</i>
A1	<i>Ariocarpus retusus v. retusus San Rafael form</i>
A1	<i>Astrophytum coahuilense</i>
A1	<i>Astrophytum myriostigma</i>
A1	<i>Astrophytum myriostigma v. quadricostatum</i>
A1	<i>Astrophytum ornatum</i>
A1	<i>Astrophytum ornatum "niveum"</i>
A1	<i>Brachychiton australis</i>
A1	<i>Brachychiton rupestris</i>
A1	<i>Calibanus hookeri</i>
A1	<i>Carnegiea gigantea</i>
A1	<i>Coryphantha cornifera</i>
A1	<i>Coryphantha echinus</i>
A1	<i>Coryphantha erecta</i>
A1	<i>Coryphantha hesteri</i>
A1	<i>Coryphantha macromeris</i>
A1	<i>Coryphantha poselgeriana</i>
A1	<i>Coryphantha recurvata</i>
A1	<i>Dasyllirion longissima</i>
A1	<i>Dasyllirion wheeleri</i>
A1	<i>Denmoza rhodacantha</i>
A1	<i>Dioone edule</i>
A1	<i>Echinocactus grusonii</i>
A1	<i>Echinocactus horizonthalonius v. horizonthalonius</i>
A1	<i>Echinocactus ingens</i>
A1	<i>Echinocactus texensis</i>
A1	<i>Echinocereus baileyi</i>
A1	<i>Echinocereus baileyi v. bruniespinus</i>

Code Botanical Name

A1	<i>Echinocereus fendleri v. boyce-thompsonii</i>
A1	<i>Echinocereus fendleri v. rectispinus</i>
A1	<i>Echinocereus fitchii</i>
A1	<i>Echinocereus ledingii</i>
A1	<i>Echinocereus melanocentrus</i>
A1	<i>Echinocereus nicholii</i>
A1	<i>Echinocereus pectinatus v. pectinatus</i>
A1	<i>Echinocereus pectinatus v. rigidissimus</i>
A1	<i>Echinocereus polyacanthus v. nova</i>
A1	<i>Echinocereus rigidissimus</i>
A1	<i>Echinocereus stramineus</i>
A1	<i>Echinocereus triglochidaitus v. rosei</i>
A1	<i>Echinocereus triglochidiatus SB201</i>
A1	<i>Echinocereus triglochidiatus v. gonacanthus</i>
A1	<i>Echinocereus triglochidiatus v. mohavensis</i>
A1	<i>Echinocereus triglochidiatus v. octacanthus</i>
A1	<i>Echinomastus intertextus</i>
A1	<i>Euphorbia antisyphilitica</i>
A1	<i>Euphorbia rigida</i>
A1	<i>Ferocactus chrysacanthus</i>
A1	<i>Ferocactus covillei</i>
A1	<i>Ferocactus gracilis</i>
A1	<i>Ferocactus gracilis v. coloratus</i>
A1	<i>Ferocactus hamatacanthus v. hamatacanthus</i>
A1	<i>Ferocactus hamatacanthus v. sinuatus</i>
A1	<i>Ferocactus herrerae</i>
A1	<i>Ferocactus latispinus</i>
A1	<i>Ferocactus latispinus (yellow spined)</i>
A1	<i>Ferocactus orcuttii</i>
A1	<i>Ferocactus peninsulae</i>
A1	<i>Ferocactus pilosus</i>
A1	<i>Ferocactus pringlei</i>
A1	<i>Ferocactus rectispinus</i>
A1	<i>Ferocactus schwarzii</i>
A1	<i>Ferocactus wislizenii</i>
A1	<i>Fouquieria fasciculata</i>
A1	<i>Fouquieria splendens</i>
A1	<i>Gymnocalycium saglionis</i>
A1	<i>Hesperaloe funifera</i>
A1	<i>Hesperaloe parviflora</i>
A1	<i>Idria columnaris BOOJUM</i>
A1	<i>Leuchtenbergia principis</i>
A1	<i>Mammillaria apozolensis v. saltensis</i>
A1	<i>Mammillaria bocensis</i>
A1	<i>Mammillaria buchareliensis</i>
A1	<i>Mammillaria candida</i>
A1	<i>Mammillaria compressa</i>
A1	<i>Mammillaria craigii Lau 086</i>
A1	<i>Mammillaria elegans</i>
A1	<i>Mammillaria elegans (San Jose Lacheguir)</i>
A1	<i>Mammillaria formosa</i>
A1	<i>Mammillaria geminispina</i>
A1	<i>Mammillaria geminispina nobilis</i>
A1	<i>Mammillaria gigantea</i>
A1	<i>Mammillaria grusonii</i>
A1	<i>Mammillaria karwinskiana</i>
A1	<i>Mammillaria klissingiana</i>
A1	<i>Mammillaria magnimamma</i>
A1	<i>Mammillaria melanocentra</i>

Cactus & Succulents for the Full Sun

Code	Botanical Name	Code	Botanical Name
A1	Mammillaria morganiana	A1	Yucca schottii
A1	Mammillaria movensis Rio Yaqui form	A1	Yucca thompsonii
A1	Mammillaria ocoatlensis	A2	Agave bovicronuta
A1	Mammillaria pachycylindrica	A2	Agave parryi v. patoni
A1	Mammillaria parkinsonii	A2	Aloe barbadensis Healing Aloe
A1	Mammillaria perbella	A2	Aloe dichotoma
A1	Mammillaria sonorensis	A2	Aloe ferox
A1	Mammillaria winterae	A2	Aloe marlothii
A1	Opuntia arborescens	A2	Aloe saponaria
A1	Opuntia basilaris	A2	Bursera microphylla
A1	Opuntia basilaris monstrose	A2	Cereus forbesii
A1	Opuntia basilaris X violacea v. Santa Rita	A2	Cereus grandicostatus
A1	Opuntia engelmannii v. alta	A2	Cereus peruvianus
A1	Opuntia erinacea	A2	Cereus peruvianus monstrose
A1	Opuntia fragilis v. denudata	A2	Cereus peruvianus spiral form
A1	Opuntia fulgida crest	A2	Cleistocactus straussii Silver Torch
A1	Opuntia leptocaulis	A2	Cochemiea setispina
A1	Opuntia microdasys monstrose	A2	Coryphantha elephantidens
A1	Opuntia microdasys v. albata	A2	Cyphostemma juttae
A1	Opuntia microdasys v. albispina	A2	Cyphostemma juttae
A1	Opuntia microdasys v. microdasys	A2	Erythrina flabelliformis
A1	Opuntia microdasys v. rufida	A2	Euphorbia resinifera
A1	Opuntia molesta	A2	Euphorbia rowleyana
A1	Opuntia ramosissima	A2	Ferocactus cylindraceus v. tortulospinus
A1	Opuntia robusta	A2	Ferocactus diguetii
A1	Opuntia violacea v. macrocentra	A2	Ferocactus echidne
A1	Opuntia violacea v. santa-rita	A2	Ferocactus fordii
A1	Stenocactus coptogonus	A2	Ferocactus gatesii
A1	Stenocactus lloydii	A2	Ferocactus hystrix
A1	Stenocactus longispinus	A2	Ferocactus nobilis
A1	Stenocactus parksianus	A2	Ferocactus pottsii v. alamosanus
A1	Stenocactus pentacanthus	A2	Ipomoea platense
A1	Stenocactus phiacanthus v. violaciflorus	A2	Lophocereus schottii monstrose TOTEM POLE
A1	Stenocactus sp. nova Lau 738 Rio de Mayo	A2	Lophocereus schottii Sonita
A1	Stetsonia coryne	A2	Mammillaria nejapensis
A1	Talinum aurantiacum	A2	Mammillaria setispinus (Cochemiea)
A1	Tephrocactus articulatus	A2	Myrtillocactus geometrizans
A1	Tephrocactus articulatus inermis	A2	Myrtillocactus geometrizans crest
A1	Tephrocactus paediophylla	A2	Opuntia subulata
A1	Thelocactus bicolor v. bicolor	A2	Opuntia subulata crest
A1	Thelocactus bicolor v. bolaensis	A2	Pereskia diaz-romeroana
A1	Thelocactus bicolor v. flavidispinus	A2	Pereskia grandiflora
A1	Thelocactus bicolor v. schottii	A2	Pereskia weberiana
A1	Thelocactus bicolor v. tricolor	A2	Stenocereus marginatus
A1	Thelocactus hexaedrophorus	A2	Stenocereus thurberi
A1	Thelocactus macdowellii	A2	Trichocereus pachanoi SAN PEDRO
A1	Thelocactus rinconensis	A2	Trichocereus peruvianus
A1	Thelocactus setispinus fma. flavibaccatus	A3	Adansonia fony
A1	Trichocereus macrogonus	A3	Aloe ramosissima
A1	Trichocereus pasacana	A3	Aloe wickensii
A1	Trichocereus tarijensis	A3	Bursera fagaroides
A1	Trichocereus terscheckii v. montanus	A3	Bursera schlectendalii
A1	Trichocereus terscheckii v. terscheckii	A3	Cereus aethiops
A1	Yucca australis	A3	Euphorbia candelabrum
A1	Yucca baccata	A3	Euphorbia trigona
A1	Yucca carnerosana (Y. faxoniana)	A3	Euphorbia trigona Red Form
A1	Yucca elata	A3	Ficus palmeri
A1	Yucca filifera	A3	Ficus petiolaris
A1	Yucca rostrata	A3	Jatropha cordata

Cactus & Succulents for the Full Sun

Code Botanical Name

A3 *Jatropha cuneata*
A3 *Mammillaria blossfeldiana*
A3 *Mammillaria boolii*
A3 *Mammillaria guerrerensis*
A3 *Mammillaria maritima*
A3 *Mammillaria peninsularis*
A3 *Mammillaria poselgeri*
A3 *Mammillaria schumannii v. globosa*
A3 *Mammillaria schumannii v. schumannii*
A3 *Momordica rostrata*

Code Botanical Name

A3 *Moringa ovalifolia*
A3 *Operculicarya decaryi*
A3 *Pachycereus pringlei*
A3 *Pachycormus discolor*
A3 *Pachypodium geayi*
A3 *Pachypodium lamerei*
A3 *Stenocereus dumortieri*
A3 *Stenocereus victoriensis*
A3 *Stenocereus victoriensis crest*

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B1	<i>Adromischus cooperi</i>	B1	<i>Echinocereus morrallii</i>
B1	<i>Adromischus cristatus</i>	B1	<i>Echinocereus nivosus</i>
B1	<i>Adromischus marianiae v. hallii</i>	B1	<i>Echinocereus pappilosus</i>
B1	<i>Adromischus marianiae v. immaculatus</i>	B1	<i>Echinocereus parkerii v. gonzalesii</i>
B1	<i>Adromischus marianiae v. kubusensis</i>	B1	<i>Echinocereus pectinatus v. rubispinus</i>
B1	<i>Adromischus rupicolus</i>	B1	<i>Echinocereus pentalophus</i>
B1	<i>Adromischus schuldtianus</i>	B1	<i>Echinocereus pentalophus monstrose</i>
B1	<i>Adromischus subviridus</i>	B1	<i>Echinocereus polyacanthus</i>
B1	<i>Agave utahensis v. eboraspina</i>	B1	<i>Echinocereus posegneri (Wilcoxia)</i>
B1	<i>Agave utahensis v. nevadensis</i>	B1	<i>Echinocereus pulchellus v. pulchellus</i>
B1	<i>Agave utahensis v. utahensis</i>	B1	<i>Echinocereus pulchellus v. weinbergii</i>
B1	<i>Agave victoria-reginae</i>	B1	<i>Echinocereus reichenbachii v. albertii</i>
B1	<i>Agave victoria-reginae ornata</i>	B1	<i>Echinocereus reichenbachii v. albispinus</i>
B1	<i>Agave victoria-reginae v. compacta</i>	B1	<i>Echinocereus scheerii v. obscurensis</i>
B1	<i>Aloe aristata</i>	B1	<i>Echinocereus scheerii v. gentryi</i>
B1	<i>Aloe humilis</i>	B1	<i>Echinocereus schmollii (Wilcoxia)</i>
B1	<i>Alloinopsis shooneesii</i>	B1	<i>Echinocereus viridiflorus</i>
B1	<i>Ariocarpus fissuratus v. hintonii</i>	B1	<i>Echinocereus viridiflorus v. correllii</i>
B1	<i>Ariocarpus kotschoubeyanus</i>	B1	<i>Echinopsis ancistrophora crest</i>
B1	<i>Ariocarpus kotschoubeyanus elephantidens</i>	B1	<i>Echinopsis argentinensis</i>
B1	<i>Ariocarpus kotschoubeyanus v. albiflora</i>	B1	<i>Echinopsis chloranthus</i>
B1	<i>Ariocarpus scapharostrus</i>	B1	<i>Echinopsis grandiflorus</i>
B1	<i>Astrophytum asterias</i>	B1	<i>Echinopsis hauscha v. rubra</i>
B1	<i>Astrophytum asterias x A. capricorne</i>	B1	<i>Echinopsis multiplex crest</i>
B1	<i>Astrophytum capricorne</i>	B1	<i>Echinopsis multiplex crest Johnson's Pink Flowered Hedgehog</i>
B1	<i>Astrophytum capricorne v. niveum</i>	B1	<i>Echinopsis pelecyrrachis</i>
B1	<i>Astrophytum capricorne x A. asterias</i>	B1	<i>Echinopsis silvestrii</i>
B1	<i>Astrophytum myriostigma v. nudum</i>	B1	<i>Echinopsis sp. nov. P255</i>
B1	<i>Astrocephalocereus streckeri</i>	B1	<i>Echinopsis subdenudatum</i>
B1	<i>Chamaecereus silvestrii</i>	B1	<i>Echinopsis tubiflora cv. HAKUJOMARU</i>
B1	<i>Chamaecereus x Fire Chief Johnson hybrid</i>	B1	<i>Echinopsis turbinata</i>
B1	<i>Chamaecereus x Flame Johnson hybrid</i>	B1	<i>Echinopsis x "Pragochameacereus - Fric hybrid"</i>
B1	<i>Chamaecereus x King Kong</i>	B1	<i>Echinopsis x Apricot Glow Dimmitt hybrid</i>
B1	<i>Chamaecereus x Tourmaline</i>	B1	<i>Echinopsis x Arachnacot M2G hybrid</i>
B1	<i>Chamaecereus x Yellow Peanut Johnson</i>	B1	<i>Echinopsis x Atomic Paramount hybrid</i>
B1	<i>Chameacereus x Mephisto Johnson hybrid</i>	B1	<i>Echinopsis x Aurora Paramount hybrid</i>
B1	<i>Cheiridopsis candissimus</i>	B1	<i>Echinopsis x Barber Pole Paramount hybrid</i>
B1	<i>Cleistocactus X Oreocereus cv. Old Torch</i>	B1	<i>Echinopsis x Betelgeuse Paramount hybrid</i>
B1	<i>Coryphantha durangensis</i>	B1	<i>Echinopsis x Blaze Paramount hybrid</i>
B1	<i>Coryphantha fragrans</i>	B1	<i>Echinopsis x Blue Lights Paramount hybrid</i>
B1	<i>Coryphantha henricksonii</i>	B1	<i>Echinopsis x Blush Paramount hybrid</i>
B1	<i>Coryphantha runyonii inermis</i>	B1	<i>Echinopsis x Bowl of Orange "Chamaelobivia"</i>
B1	<i>Coryphantha sulcata</i>	B1	<i>Echinopsis x Cherry Red Bach's hybrid</i>
B1	<i>Coryphantha vivipara v. kiababensis</i>	B1	<i>Echinopsis x Dainty Bess Paramount hybrid</i>
B1	<i>Coryphantha vivipara v. neomexicana</i>	B1	<i>Echinopsis X Epic B&B hybrid</i>
B1	<i>Coryphantha vivipara v. vivipara</i>	B1	<i>Echinopsis x First Light Dimmitt hybrid</i>
B1	<i>Cycas revoluta SAGO PALM</i>	B1	<i>Echinopsis x Flaming Orange Chamaecereus hybrid</i>
B1	<i>Delosperma bosseranum</i>	B1	<i>Echinopsis x Fluffy Ruffles Paramount hybrid</i>
B1	<i>Echinocereus adustus</i>	B1	<i>Echinopsis x Flying Saucer</i>
B1	<i>Echinocereus berlandieri</i>	B1	<i>Echinopsis x Giant Peanut Johnson hybrid</i>
B1	<i>Echinocereus coccineus v. inermis</i>	B1	<i>Echinopsis x Glorious</i>
B1	<i>Echinocereus coccineus v. paucispinus</i>	B1	<i>Echinopsis x Harlequin Paramount hybrid</i>
B1	<i>Echinocereus delaetii</i>	B1	<i>Echinopsis x Hemaglow M2G hybrid</i>
B1	<i>Echinocereus enneacanthus</i>	B1	<i>Echinopsis x Hollyberry M2G hybrid</i>
B1	<i>Echinocereus knippelianus v. knippelianus</i>	B1	<i>Echinopsis x Iridina M2G hybrid</i>
B1	<i>Echinocereus knippelianus v. kruegeri</i>	B1	<i>Echinopsis x Iris Myers Chameacereus hybrid</i>
B1	<i>Echinocereus knippelianus v. reyesii</i>	B1	<i>Echinopsis x Japan NO 1 Chameacereus hybrid</i>
B1	<i>Echinocereus lauui</i>	B1	<i>Echinopsis x Jean's Delight "Chamaelobivia"</i>

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B1	Echinopsis x June Noon Dimmitt hybrid	B1	Gymnocalycium manzanense
B1	Echinopsis x Kawinai Chameacereus hybrid	B1	Gymnocalycium matoense
B1	Echinopsis x Kent Sunrise "Chamealobivia"	B1	Gymnocalycium monvillei
B1	Echinopsis x Los Angeles Paramount hybrid	B1	Gymnocalycium multiflorum
B1	Echinopsis x Mars Paramount hybrid	B1	Gymnocalycium paediophilum
B1	Echinopsis x Mephisto Johnson hybrid	B1	Gymnocalycium pflanzii v. marquezii
B1	Echinopsis x Northern Lights Paramount hybrid	B1	Gymnocalycium schroederianum
B1	Echinopsis x Oh Wow! Dimmitt hybrid	B1	Gymnocalycium spegazzini
B1	Echinopsis x Pacific Sunset	B1	Gymnocalycium tillianum
B1	Echinopsis x Pink and White Johnson hybrid	B1	Gymnocalycium triacanthum
B1	Echinopsis x Pink Flamingo Chameacereus hybrid	B1	Ibervillea sonorae v. penninsulae
B1	Echinopsis x Pink Glory	B1	Lithops aucampiae
B1	Echinopsis x Ralph's Orange Chameacereus hybrid	B1	Lithops bromfieldii
B1	Echinopsis x Red King Paramount hybrid	B1	Lithops dorotheae
B1	Echinopsis x Red Meteor Paramount hybrid	B1	Lithops fulviceps v. lactinae
B1	Echinopsis x Red Paramount Paramount hybrid	B1	Lithops gesinae v. annae
B1	Echinopsis x Salmonella M2G hybrid	B1	Lithops gracilidelineata
B1	Echinopsis x Scarlett O'Hara Paramount hybrid	B1	Lithops hallii
B1	Echinopsis x Son of Shot Scarlet Chameacereus hybrid	B1	Lithops helmutii
B1	Echinopsis x Stars & Stripes Paramount	B1	Lithops hookeri
B1	Echinopsis x Sunset Paramount hybrid	B1	Lithops hookeri "vermiculate form"
B1	Echinopsis x Toxic Waste Miles' To Go hybrid	B1	Lithops hookeri v. elephina
B1	Echinopsis x Tropic Sunset Paramount hybrid	B1	Lithops hookeri v. sussannae
B1	Echinopsis x Uncle Arthur Chameacereus hybrid	B1	Lithops jullii
B1	Echinopsis x Volcanic Sunset Dimmitt hybrid	B1	Lithops karasmontana
B1	Echinopsis x Watermelon Paramount	B1	Lithops karasmontana [Mickbergensis]
B1	Echinopsis x White Peanut Chameacereus hybrid	B1	Lithops karasmontana [Summitatum]
B1	Echinopsis x Yellow Bird Chameacereus hybrid	B1	Lithops karasmontana v. eberlanzii
B1	Encephalocarpus strobiliformis	B1	Lithops karasmontana v. lericheana
B1	Epithelantha micromeris	B1	Lithops karasmontana v. tischeri
B1	Epithelantha micromeris v. rufispina	B1	Lithops lesliei
B1	Epithelantha polycepala	B1	Lithops lesliei "warrenton"
B1	Epithelantha unguispina	B1	Lithops lesliei fma. albinica
B1	Escobaria chihuahuensis	B1	Lithops lesliei v. burchellii
B1	Escobaria vivipara v. bisbeeana	B1	Lithops lesliei v. rubrobrunnea
B1	Escobaria zilziana	B1	Lithops lesliei v. venteri
B1	Fenestraria cv. "Fireworth"	B1	Lithops marmorata v. elishae
B1	Ferocactus stainsii	B1	Lithops otzeniana
B1	Ferocactus viridescens	B1	Lithops pseudotruncatella
B1	Gymnocalycium beguinii v. senilis	B1	Lithops pseudotruncatella v. dendritica
B1	Gymnocalycium gielsdorffianus	B1	Lithops ruschiorum
B1	Gymnocalycium sauerae	B1	Lithops salicola
B1	Gymnocalycium subterraneus v. zaragozae	B1	Lithops schwantesii
B1	Gymnocalycium ysabelae	B1	Lithops schwantesii v. christinae
B1	Gymnocalycium andrea v. longiflorum	B1	Lithops verruculosa
B1	Gymnocalycium artigas	B1	Lobivia acanthoplegma v. rosieflora
B1	Gymnocalycium baldianum	B1	Lobivia andalgalensis
B1	Gymnocalycium bayrianum	B1	Lobivia arachnacantha
B1	Gymnocalycium bruchii	B1	Lobivia aurea (syn. L. luteaflora) yellow flowered form
B1	Gymnocalycium cardenasianum	B1	Lobivia aurea red flowered form
B1	Gymnocalycium denudatum	B1	Lobivia cardenasiana
B1	Gymnocalycium doppianum	B1	Lobivia cinnabarina
B1	Gymnocalycium erinaceum	B1	Lobivia ferox
B1	Gymnocalycium friedericii	B1	Lobivia jajoiana v. nigristoma
B1	Gymnocalycium gibbosum	B1	Lobivia kermisina
B1	Gymnocalycium horridispinum	B1	Lobivia leucomalla
B1	Gymnocalycium horstii	B1	Lobivia obrepanda calorubra
B1	Gymnocalycium leeannum	B1	Lobivia pojoensis v. grandiflora

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B1	Lobivia winteriana	B1	Mammillaria pennispinosa
B1	Lobivia wrightiana	B1	Mammillaria perezdelarosae
B1	Mammillaria ahniana	B1	Mammillaria pettersonii
B1	Mammillaria auriehamata	B1	Mammillaria plumosa
B1	Mammillaria aurielanata	B1	Mammillaria pottsii
B1	Mammillaria bachmannii	B1	Mammillaria priessnitzi
B1	Mammillaria baumii	B1	Mammillaria pseudoperbella
B1	Mammillaria bocasana multilanata	B1	Mammillaria rekoi v. leptacantha
B1	Mammillaria bocasana roseiflora	B1	Mammillaria rhodantha (syn. M. pringlei)
B1	Mammillaria carnea	B1	Mammillaria ritteriana
B1	Mammillaria celsiana	B1	Mammillaria rubrograndis
B1	Mammillaria coahuilense (Porfuria schwartzii)	B1	Mammillaria rubrograndis pale flowered
B1	Mammillaria crassimammillis	B1	Mammillaria runyonii
B1	Mammillaria crispiseta	B1	Mammillaria saboae v. goldii
B1	Mammillaria crocidiata	B1	Mammillaria saboae v. haudeana
B1	Mammillaria duwei	B1	Mammillaria saboae v. saboae
B1	Mammillaria elegans v. schmollii	B1	Mammillaria schiedeana v. plumosa
B1	Mammillaria elongata	B1	Mammillaria schiedeana v. schiedeana
B1	Mammillaria fittkauii	B1	Mammillaria schwarpii
B1	Mammillaria gasserana	B1	Mammillaria scrippsiana
B1	Mammillaria glassii Lau 1357	B1	Mammillaria sempervivi v. sempervivi
B1	Mammillaria glassii v. nominis-dulcis	B1	Mammillaria sempervivi v. tetracantha
B1	Mammillaria grahamii (syn. M. microcarpa)	B1	Mammillaria senilis
B1	Mammillaria guelzowiana	B1	Mammillaria sp. nova - heyderi group Ascencion, Neuvo Leon
B1	Mammillaria guillauminiana	B1	Mammillaria sphaerica
B1	Mammillaria haageana v. schmollii	B1	Mammillaria surculosa
B1	Mammillaria hahniana	B1	Mammillaria tayloriorum
B1	Mammillaria hemispherica	B1	Mammillaria tesopacensis
B1	Mammillaria hertrichiana	B1	Mammillaria wildii
B1	Mammillaria hildagensis	B1	Mammillaria woodsi
B1	Mammillaria humboldtii	B1	Mammillaria wrightii
B1	Mammillaria infernillensis	B1	Mammillaria wrightii v. wilcoxii
B1	Mammillaria johnstonii v. sancarlensis	B1	Mammillaria x Pink Nymph
B1	Mammillaria knebeliana	B1	Mammillaria zeilmanniana
B1	Mammillaria knuthii	B1	Mammillaria zephyranthoides
B1	Mammillaria kraehenbuehlii	B1	Mestoklema tuberosa
B1	Mammillaria lasiacantha	B1	Morawetzia serricata
B1	Mammillaria lenta	B1	Neobesseyea similis v. robustior
B1	Mammillaria lloydii	B1	Neochilenia napina
B1	Mammillaria longiflora fma. longiflora	B1	Neochilenia pulchella
B1	Mammillaria longiflora fma. stampferi	B1	Neolloydia conoidea
B1	Mammillaria longimamma v. longimamma	B1	Neoporteria atrispinosa
B1	Mammillaria macracantha	B1	Neoporteria laniceps
B1	Mammillaria mainiae	B1	Neoporteria nidus-senilis
B1	Mammillaria marksiana	B1	Neoporteria occulta
B1	Mammillaria meigeana	B1	Neoporteria paucicostata
B1	Mammillaria melaleuca	B1	Neoporteria scoparia
B1	Mammillaria mendeliana	B1	Neoporteria sp.Lau 869 (de Taltal)
B1	Mammillaria microhelia	B1	Neoporteria wagenknechti
B1	Mammillaria microthele	B1	Notocactus agnetae
B1	Mammillaria moelleriana	B1	Notocactus antangularis
B1	Mammillaria montensis	B1	Notocactus apricus
B1	Mammillaria mystax	B1	Notocactus claviceps
B1	Mammillaria napina	B1	Notocactus elegans
B1	Mammillaria nazasensis	B1	Notocactus euginiae
B1	Mammillaria obscura	B1	Notocactus glaucinus v. depressus
B1	Mammillaria obscura v. tortulospina	B1	Notocactus graessneri
B1	Mammillaria papasquiarensis	B1	Notocactus horstii
B1	Mammillaria pectinifera		

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B1	<i>Notocactus leninghausii</i>	B1	<i>Trichodiadema bulbosum</i>
B1	<i>Notocactus magnificus</i>	B1	<i>Trichodiadema densum</i>
B1	<i>Notocactus mammulosus</i>	B1	<i>Turbinicarpus lauii</i>
B1	<i>Notocactus roseoluteus</i>	B1	<i>Turbinicarpus lophophoroides</i>
B1	<i>Notocactus rosieflorus</i>	B1	<i>Turbinicarpus pseudomacrochele v. krainzianus</i>
B1	<i>Notocactus rutilans</i>	B1	<i>Turbinicarpus pseudomacrochele v. pseudomacrochele</i>
B1	<i>Notocactus schlosseri</i>	B1	<i>Turbinicarpus pseudopectinatus</i>
B1	<i>Notocactus tureczekianus</i>	B1	<i>Turbinicarpus roseiflora</i>
B1	<i>Notocactus uebelmannianus</i>	B1	<i>Turbinicarpus schmiedickianus v. dickisoniae</i>
B1	<i>Notocactus vanvlietii</i>	B1	<i>Turbinicarpus schmiedickianus v. flaviflorus</i>
B1	<i>Notocactus warasii</i>	B1	<i>Turbinicarpus schmiedickianus v. gracilis</i>
B1	<i>Notocactus winkleri</i>	B1	<i>Turbinicarpus schmiedickianus v. klinkerianus</i>
B1	<i>Obregonia denegrii</i>	B1	<i>Turbinicarpus schmiedickianus v. macrochele</i>
B1	<i>Opuntia picardoi</i>	B1	<i>Turbinicarpus schmiedickianus v. schmiedickianus</i>
B1	<i>Oreocereus fossulatus x Cleistocactus straussii</i> cv. James Pickering	B1	<i>Turbinicarpus schmiedickianus v. schwarzi</i>
B1	<i>Oreocereus trollii</i> v. <i>trollii</i>	B1	<i>Turbinicarpus swobodae</i>
B1	<i>Parodia sanguiniflora</i>	B1	<i>Turbinicarpus valdezianus</i> (purple flowered)
B1	<i>Pediocactus despainii</i>	B1	<i>Turbinicarpus valdezianus albiflora</i>
B1	<i>Pediocactus simpsonii</i> v. <i>minor</i>	B2	<i>Agave parrasana</i>
B1	<i>Pelecyphora aselliformis</i>	B2	<i>Agave</i> sp. FO76 (Sierra Mixteca)
B1	<i>Peniocereus greggii</i> Queen of the Night	B2	<i>Agave stricta nana</i>
B1	<i>Pleiospilos bolusii</i>	B2	<i>Aloe aristata</i> hybrid
B1	<i>Pterocactus australis</i>	B2	<i>Aloe nobilis</i>
B1	<i>Pterocactus fischeri</i>	B2	<i>Aloe striata</i>
B1	<i>Pterocactus gonjianii</i>	B2	<i>Ammocharis coranica</i>
B1	<i>Pterocactus hickenii</i>	B2	<i>Ariocarpus agavooides</i>
B1	<i>Pterocactus kuntzii</i>	B2	<i>Ariocarpus trigonus</i>
B1	<i>Pterocactus meglioli</i>	B2	<i>Beaucarnea recurvata</i>
B1	<i>Pterocactus valentinii</i>	B2	<i>Beaucarnea stricta</i>
B1	<i>Puna bonniea</i>	B2	<i>Cephalocereus polylophus</i>
B1	<i>Puna clavarioides</i>	B2	<i>Cephalocereus senilis</i>
B1	<i>Puna subterranae</i>	B2	<i>Coryphantha andrea</i>
B1	<i>Sclerocactus glaucus</i>	B2	<i>Coryphantha bumamma</i>
B1	<i>Sclerocactus mesae-verdae</i>	B2	<i>Cotyledon ladismithensis</i>
B1	<i>Sclerocactus parviflorus</i>	B2	<i>Cotyledon ladismithensis variegata</i>
B1	<i>Sclerocactus spinosior</i>	B2	<i>Cotyledon orbiculata</i>
B1	<i>Sclerocactus spinosior</i> v. <i>schlesseri</i>	B2	<i>Cotyledon orbiculata Chalk Sticks</i>
B1	<i>Sclerocactus wetlandicus</i>	B2	<i>Cotyledon sinus-alexandri</i>
B1	<i>Sclerocactus whipplei</i>	B2	<i>Cotyledon undulata</i>
B1	<i>Sclerocactus wrightiae</i>	B2	<i>Dyckia marnier-lapostolle</i>
B1	<i>Sulcorebutia arenacea</i>	B2	<i>Echinocactus grusonii albispina</i> White Barrel
B1	<i>Sulcorebutia candiae</i>	B2	<i>Echinocactus grusonii</i> crest
B1	<i>Sulcorebutia crispata</i>	B2	<i>Echinocereus luteus</i>
B1	<i>Sulcorebutia frankiana</i>	B2	<i>Echinocereus pentalophus</i> crest
B1	<i>Sulcorebutia glomeriseta</i>	B2	<i>Echinocereus reichenbachii</i> v. <i>albispinus</i> crest
B1	<i>Sulcorebutia mentosa</i>	B2	<i>Echinocereus russanthus</i> v. <i>vulpis-cauda</i>
B1	<i>Sulcorebutia rauschii</i>	B2	<i>Echinocereus spinigemmatus</i>
B1	<i>Sulcorebutia rauschii</i> (green form)	B2	<i>Echinocereus subinermis</i> v. <i>ochoterenae</i>
B1	<i>Tephrocactus glomeratus</i>	B2	<i>Epostoa lanata</i>
B1	<i>Tephrocactus inarmatus</i>	B2	<i>Epostoa melanostele</i>
B1	<i>Thelocactus heterochromus</i>	B2	<i>Euphorbia horrida</i> v. <i>horrida</i>
B1	<i>Thelocactus lausseri</i>	B2	<i>Euphorbia horrida</i> v. <i>striata</i>
B1	<i>Thelocactus leucacanthus</i> v. <i>schmollii</i>	B2	<i>Euphorbia horrida</i> x <i>polygona</i>
B1	<i>Thelocactus setispinus</i>	B2	<i>Euphorbia obesa</i>
B1	<i>Titanopsis calcareum</i>	B2	<i>Faucaria tigrina</i> TIGER JAWS
B1	<i>Toumeya papyracantha</i>	B2	<i>Fenestraria hybrids</i> BABY TOES
B1	<i>Trichocereus poco</i>	B2	<i>Ferocactus glaucescens</i>
B1	<i>Trichocereus thelogonus</i> crest	B2	<i>Ferocactus macrodiscus</i>

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B2	<i>Ferocactus robustus</i>	B2	<i>Mammillaria wiesingeri</i>
B2	<i>Frithia pulchra</i>	B2	<i>Matucana paucicostata</i>
B2	<i>Gonolobus (Matelea) cyclophyllus</i>	B2	<i>Notocactus buiningii</i>
B2	<i>Grahamia coahuilensis</i>	B2	<i>Notocactus herteri</i>
B2	<i>Gymnocalycium damsii v. rotundulum</i>	B2	<i>Notocactus purpureus</i>
B2	<i>Gymnocalycium eurypleurum</i>	B2	<i>Notocactus rudibuenecieri</i>
B2	<i>Gymnocalycium fleischerianum</i>	B2	<i>Notocactus succineus</i>
B2	<i>Gymnocalycium ourselianum</i>	B2	<i>Notocactus succineus v. albispinus</i>
B2	<i>Gymnocalycium pflanzii v. albopulpa</i>	B2	<i>Opuntia vestita</i>
B2	<i>Gymnocalycium pflanzii v. camaparense</i>	B2	<i>Opuntia vulgaris variegata cv. Maverick</i>
B2	<i>Gymnocalycium ragonesii</i>	B2	<i>Oreocereus celsianus</i>
B2	<i>Gymnocalycium stenogonium</i>	B2	<i>Oreocereus henricksonianus v. densilanatus</i>
B2	<i>Gymnocalycium valnicekianum</i>	B2	<i>Oroya peruviana</i>
B2	<i>Ibervillea tenuisecta</i>	B2	<i>Ortegocactus macdougallii</i>
B2	<i>Jatropha cathartica</i> =(<i>bertlandieri</i>)	B2	<i>Pachypodium namaquanum</i>
B2	<i>Lapidaria margaretae</i>	B2	<i>Peniocereus marianus</i>
B2	<i>Malacocarpus sellowii</i>	B2	<i>Pleiospilos nelii</i>
B2	<i>Mammillaria albicans</i>	B2	<i>Polaskia chichipe</i>
B2	<i>Mammillaria albilanata</i>	B2	<i>Pyrrhocactus bulbocalyx</i>
B2	<i>Mammillaria albilanata v. fauxiana</i>	B2	<i>Sedum prealtum crest</i>
B2	<i>Mammillaria aurielanata fma. alba</i>	B2	<i>Titanopsis hugo-schlechteri</i>
B2	<i>Mammillaria beiselii</i>	B2	<i>Trichocereus chilensis</i>
B2	<i>Mammillaria berkeana</i>	B2	<i>Trichocereus pachanoi crest</i>
B2	<i>Mammillaria bocasana monstrose</i> cv. Fred	B2	<i>Tylecodon sinus-alexandrii</i>
B2	<i>Mammillaria bombycinia</i>	B2	x <i>Pachyveria</i> hybrid cristate
B2	<i>Mammillaria camptotricha</i>	B3	<i>Adenia fruticosa</i>
B2	<i>Mammillaria canelensis</i>	B3	<i>Adenia glauca</i>
B2	<i>Mammillaria carmenae</i>	B3	<i>Adenia venenata</i>
B2	<i>Mammillaria carrettii</i>	B3	<i>Adenium arabicum</i>
B2	<i>Mammillaria casoi</i>	B3	<i>Adenium boehmianum</i>
B2	<i>Mammillaria cowperae</i>	B3	<i>Adenium obesum</i>
B2	<i>Mammillaria crucigera</i>	B3	<i>Adenium obesum 'Bill Jones'</i>
B2	<i>Mammillaria dehertiana</i>	B3	<i>Adenium obesum hybrid</i>
B2	<i>Mammillaria densispina</i>	B3	<i>Adenium obesum ssp. multiflorum</i>
B2	<i>Mammillaria dixanthocentron</i>	B3	<i>Adenium somalense</i>
B2	<i>Mammillaria duraspina</i>	B3	<i>Adenium somalense x A. obesum</i>
B2	<i>Mammillaria eichlamii</i>	B3	<i>Adenium swazicum</i>
B2	<i>Mammillaria elongata crest</i>	B3	<i>Adenium swazicum</i>
B2	<i>Mammillaria elongata crest Brown Brain</i>	B3	<i>Adenium x Crimson Star</i>
B2	<i>Mammillaria glochidiata</i>	B3	<i>Agave ghiesbreghtii</i>
B2	<i>Mammillaria heidiae</i>	B3	<i>Agave guadalajarana</i>
B2	<i>Mammillaria lanata</i>	B3	<i>Agave potatorum</i>
B2	<i>Mammillaria lauii fma. lauii</i>	B3	<i>Agave verschaffeldii</i> cv. 'Ohi Rajin'
B2	<i>Mammillaria lauii fma. subducta</i>	B3	<i>Alluadia procera</i>
B2	<i>Mammillaria lindsayi</i>	B3	<i>Aloe brevifolia</i>
B2	<i>Mammillaria longimamma v. uberiformis</i>	B3	<i>Aloe ciliaris</i>
B2	<i>Mammillaria pilcayensis</i>	B3	<i>Aloe claviflora</i>
B2	<i>Mammillaria rekoi v. auriespina</i>	B3	<i>Aloe harlinii</i>
B2	<i>Mammillaria rettigiana</i>	B3	<i>Aloe jacunda</i>
B2	<i>Mammillaria sartorii</i>	B3	<i>Aloe melanocantha</i>
B2	<i>Mammillaria solisioides</i>	B3	<i>Aloe pegerae</i>
B2	<i>Mammillaria sp. Lau 1050</i> (S.J. Capistrano)	B3	<i>Aloe plicatilis</i>
B2	<i>Mammillaria spinosissima</i>	B3	<i>Aloe sincatana</i>
B2	<i>Mammillaria spinosissima crest</i>	B3	<i>Aloe striata hybrid</i>
B2	<i>Mammillaria standleyi</i>	B3	<i>Aloe x Doran Black</i>
B2	<i>Mammillaria supertexta</i>	B3	<i>Aloe x Lizard Lips</i>
B2	<i>Mammillaria swinglei</i>	B3	<i>Aloe zanzibarica</i>
B2	<i>Mammillaria tlalocii</i>	B3	<i>Anacampseros rufescens</i>
B2	<i>Mammillaria viperina</i>	B3	<i>Anacampseros rufescens</i> cv. Sunrise

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B3	Anacampseros telephiastrum	B3	Discocactus placentiformis HU 105
B3	Astrocephalocereus dolichospermaticus	B3	Discocactus pugionacanthus HU 402
B3	Astrocephalocereus estevesii	B3	Discocactus sp. nova HU 544
B3	Aztekium ritteri	B3	Discocactus sp. nova HU 639
B3	Azureocereus hertlingianus	B3	Discocactus sp. nova HU 640
B3	Backebergia militaris	B3	Discocactus sp. nova HU 645
B3	Backebergia militaris crest	B3	Discocactus sp. nova HU 646
B3	Bombax elypticum	B3	Discocactus sp. nova HU 651
B3	Borzicactus chacoanus crest	B3	Discocactus subviridigriseus HU 438
B3	Buiningia brevicylindrica v. longispina	B3	Dorstenia crispa
B3	Buiningia purpureus	B3	Echinocereus leucanthus (Wilcoxia albiflora)
B3	Caralluma lutea	B3	Echinocereus pacificus
B3	Caralluma schweinfurthii	B3	Echinopsis x Red Riding Hood crest
B3	Caralluma socotrana	B3	Echinopsis x White Knight variegate
B3	Caralluma speciosa	B3	Epostoa melanostele v. nana
B3	Cephalocereus alensis crest	B3	Epostoa mirabolis
B3	Cephalocereus chrysacanthus crest	B3	Epostoa ritteri
B3	Cephalocereus euphorbioides crest	B3	Epostoa saxitilis v. densilanatus
B3	Cephalocereus maxsonii	B3	Euphorbia acruensis
B3	Cephalocereus palmeri	B3	Euphorbia aeruginosa
B3	Cephalocereus palmeri crest	B3	Euphorbia ammak variegata
B3	Cephalocereus senilis crest	B3	Euphorbia bupleurifolia
B3	Cephalopentandra ecirrhosa	B3	Euphorbia cactus
B3	Ceraria pygmaea	B3	Euphorbia canariensis
B3	Cereus peruvianus monstrose Ming Thing	B3	Euphorbia carlsonii
B3	Cereus peruvianus monstrose minima	B3	Euphorbia echinus
B3	Cereus tetragonus monstrose	B3	Euphorbia enopla
B3	Cissus tuberosus	B3	Euphorbia ferox
B3	Coleocephalocereus geobelianus	B3	Euphorbia flanaganii arm crest
B3	Consolea rubescens	B3	Euphorbia flanaganii MEDUSA'S HEAD
B3	Copiapoa humilis	B3	Euphorbia francoisii
B3	Copiapoa krainziana	B3	Euphorbia fruticosa "spines form"
B3	Copiapoa lembckeii	B3	Euphorbia fruticosa Blue form
B3	Copiapoa marginata	B3	Euphorbia gorgonis
B3	Copiapoa tenuissima	B3	Euphorbia grandicornis
B3	Copiapoa tenuissima monstrose	B3	Euphorbia hermentiana
B3	Corallocarpus bainesii	B3	Euphorbia horrida v. nova
B3	Crassula falcata	B3	Euphorbia inermis v. huttonae
B3	Crassula portulacea 'Dwarf Hobbit'	B3	Euphorbia ingens monstrose
B3	Crassula portulacea 'Gollum'	B3	Euphorbia lactea
B3	Crassula portulacea 'Hobbit'	B3	Euphorbia lactea crest
B3	Crassula portulacea DWARF JADE	B3	Euphorbia lactea variegate crest White Ghost Crest
B3	Crassula portulacea Jade Tree	B3	Euphorbia lactea White Ghost
B3	Cyphostemma montagnaci	B3	Euphorbia makallensis
B3	Cyphostemma sandersii	B3	Euphorbia mammillaris
B3	Dioone spinulosum	B3	Euphorbia mammillaris variegata
B3	Dioscorea elephantipes	B3	Euphorbia meloformis
B3	Discocactus albispinus HU 390	B3	Euphorbia nesmannii
B3	Discocactus alteolens HU 232	B3	Euphorbia obesa crest
B3	Discocactus araniespinus	B3	Euphorbia obesa hybrid
B3	Discocactus bueneckeri	B3	Euphorbia opuntioides
B3	Discocactus catingicola HU 392	B3	Euphorbia piscidermis
B3	Discocactus cephaliaciculosus HU 644	B3	Euphorbia polyacantha
B3	Discocactus chrysalophyllos HU 582	B3	Euphorbia polygona
B3	Discocactus chrysalophyllus HU 582	B3	Euphorbia polygona hybrid
B3	Discocactus horstii	B3	Euphorbia pulvinata
B3	Discocactus insignis HU 347	B3	Euphorbia restricta
B3	Discocactus latispinus HU 146	B3	Euphorbia samburuensis
B3	Discocactus nigrisaetosus HU 448	B3	Euphorbia squarrosa

Cactus & Succulents for Partial Shade

Code	Botanical Name	Code	Botanical Name
B3	Euphorbia stenoclada	B3	Matucana weberbaueri
B3	Euphorbia suzannae	B3	Micranthocereus streckeri
B3	Euphorbia suzannae crest	B3	Monadenium coccineum
B3	Euphorbia symmetrica	B3	Monadenium invenustum
B3	Euphorbia tirucallii	B3	Monadenium lugardae
B3	Euphorbia tortirama	B3	Monadenium ritchiei
B3	Euphorbia trigona variegata	B3	Monadenium rubellum
B3	Euphorbia viguieri v. capuroniana	B3	Monvillea spegazzini crest/monstroso
B3	Euphorbia x Cocklebur	B3	Myrtillocactus cochal crest
B3	Euphorbia x Thumbleina	B3	Neobuxbaumia euphorbioides crest
B3	Folotsia sp.	B3	Neoraimondia gigantea
B3	Frailea castanae	B3	Neoraimondia roseiflora
B3	Frailea phaeodisca	B3	Notocactus scopula v. murriellii
B3	Gasteraloe hybrid	B3	Notocactus scopula v. prolifera
B3	Gasteria armstrongii	B3	Notocactus scopula v. scopula
B3	Gasteria armstrongii hybrid variegata	B3	Notocactus scopula variegata
B3	Gasteria batesiana	B3	Orbea melanantha
B3	Gasteria nigricans v. marmorata	B3	Orbea pulchella PVB 4262 Humewood, Port Elizabeth
B3	Gasteria nigricans variegata	B3	Oreocereus neocelsianus crest
B3	Harrisia justbertii	B3	Pachypodium baronii v. windsorii
B3	Herreroa dyeri	B3	Pachypodium bispinosum
B3	Hoodia (Trichocaulon) officinale	B3	Pachypodium horombense
B3	Hoodia gordoni	B3	Pachypodium lamerei v. ramosum
B3	Hoodia macrantha	B3	Pachypodium rosulatum
B3	Huernia thuretii	B3	Pachypodium saundersii
B3	Huernia zebrina	B3	Pachypodium succulentum
B3	Jacaratia hasseleriana	B3	Parodia auriespina
B3	Jatropha plantanifolia	B3	Parodia chrysacanthion
B3	Jatropha podagrica	B3	Parodia fuscato-viridis
B3	Kalanchoe beharensis 'Fang'	B3	Parodia herzogii
B3	Kalanchoe beharensis minima	B3	Parodia lauui
B3	Kalanchoe scapigera	B3	Parodia mairanana
B3	Kalanchoe thrysifolia	B3	Parodia massii
B3	Kalanchoe tomentosa Chocolate Soldier	B3	Parodia nivosa
B3	Luckhoffia buckmannii	B3	Parodia penicillata
B3	Luckhoffia buckmannii crest	B3	Parodia rubellihamata
B3	Macrozamia moorei	B3	Parodia rubida
B3	Mammillaria albiflora	B3	Piaranthus foetidus
B3	Mammillaria bambusiphilla	B3	Pilosocereus azureus
B3	Mammillaria baxteriana	B3	Pilosocereus gounellei
B3	Mammillaria beneckeii variegata	B3	Pilosocereus magnificus
B3	Mammillaria columbiana	B3	Pilosocereus pachycladus
B3	Mammillaria duoformis	B3	Pilosocereus palmeri
B3	Mammillaria evermanniana	B3	Pilosocereus superfloccosus
B3	Mammillaria hernandezii	B3	Pilosocereus tillianus
B3	Mammillaria herrerae	B3	Portulacaria afra
B3	Mammillaria herrerae crest	B3	Portulacaria afra variegata
B3	Mammillaria hiutziopochtli	B3	Raphionacme flanaganii
B3	Mammillaria humboldtii (large form)	B3	Rathbunia alamosanus crest
B3	Mammillaria magnifica	B3	Sansevieria kirkii pulchra
B3	Mammillaria matudae	B3	Sansevieria singularis
B3	Mammillaria nivosa	B3	Sarcocaulon multifidum
B3	Mammillaria theresae	B3	Sarcocaulon penniculinum
B3	Mammillaria vallensis Tenango de Valle	B3	Sarcocaulon vanderietiae
B3	Mammillaria woburnensis	B3	Sedum torulosum
B3	Matucana auriflora	B3	Senecio crassissimus
B3	Matucana formosa	B3	Senecio herreianus variegata
B3	Matucana madisoniorum	B3	Senecio macroglossus variegata
B3	Matucana mammillaris KK 1638		

Cactus & Succulents for Partial Shade

Code Botanical Name

B3 *Senecio repens*
B3 *Senecio saginata*
B3 *Senecio stapeliaformis*
B3 *Seyrigia humbertii*
B3 *Stapelia gettleffii*
B3 *Stapelia leendertziae crest*
B3 *Stapelia nobilis*
B3 *Stenocereus eruca*
B3 *Stenocereus holianus crest*
B3 *Stenocereus pruinosus*
B3 *Stenocereus pruinosus*
B3 *Stenocereus pruinosus*
B3 *Stenocereus thurberi crest*
B3 *Stephanocereus leucostele*
B3 *Stetsonia coryne monstrose*
B3 *Thrixantocereus blossfeldianus*
B3 *Trichocereus camarguensis crest*
B3 *Uebelmannia buiningii*

Code Botanical Name

B3 *Uebelmannia crebispina*
B3 *Uebelmannia flavigaster*
B3 *Uebelmannia gummifera*
B3 *Uebelmannia meninensis*
B3 *Uebelmannia meninensis rubra*
B3 *Uebelmannia pectinifera*
B3 *Uebelmannia pectinifera multicostata*
B3 *Weingartia erinacea v. catarinense*
B3 *Weingartia lanata*
B3 *Weingartia neumanniana*
B3 *Winterocereus auriespinus*
B3 *Winterocereus auriespinus crest*
B3 *Zamia furfuracea CARDBOARD PALM*
B3 *Zamia pumilla*

Cactus & Succulents for Shade

Code	Botanical Name	Code	Botanical Name
C1	<i>Echeveria chihuahuaensis</i>	C3	<i>Aeonium decorum</i>
C1	<i>Echeveria glauca</i>	C3	<i>Aeonium tabulaeforme</i>
C1	<i>Echeveria lilacina</i>	C3	<i>Aloe descoingsii</i>
C1	<i>Echeveria nodulosa</i>	C3	<i>Aloe descoingsii X haworthioides</i>
C1	<i>Echeveria runyonii monstrose</i>	C3	<i>Aloe dorothea</i>
C1	<i>Echeveria setosa</i>	C3	<i>Aloe haworthioides</i>
C1	<i>Echeveria subsessilis</i>	C3	<i>Aporocactus flagelliformis</i>
C1	<i>Echeveria x Dondo</i>	C3	<i>Astroloba dodsoniana</i>
C1	<i>Echeveria x Lola</i>	C3	<i>Astroloba herrei</i>
C1	<i>Echeveria x Perle von Nurnberg</i>	C3	<i>Astroworthia skinneri</i>
C1	<i>Echeveria x Topsy Turvy</i>	C3	<i>Blossfeldia liliputana</i>
C1	<i>Graptopetalum bellum (Tacitus)</i>	C3	<i>Ceratozamia hildae</i>
C1	<i>Pachyphytum amethystinum</i>	C3	<i>Ceropegia linearis ssp. woodii</i>
C1	<i>Pachyphytum oviferum</i>	C3	<i>Crassula ausiensis v. giessii</i>
C1	<i>Pachyphytum oviferum hybrid</i>	C3	<i>Crassula columella</i>
C1	<i>Rebutia albiflora R. heliosa cv. Sunrise</i>	C3	<i>Crassula cornuta ssp. pillansii</i>
C1	<i>Rebutia albipilosa</i>	C3	<i>Crassula lycopodioides</i>
C1	<i>Rebutia donaldiana</i>	C3	<i>Crassula marnieriana</i>
C1	<i>Rebutia flavistylla</i>	C3	<i>Crassula obvallata</i>
C1	<i>Rebutia glomeriseta</i>	C3	<i>Crassula perforata</i>
C1	<i>Rebutia graciliflora v. borealis</i>	C3	<i>Crassula portulacea variegata</i>
C1	<i>Rebutia heliosa v. condorensis</i>	C3	<i>Crassula pyramidalis</i>
C1	<i>Rebutia heliosa v. heliosa</i>	C3	<i>Crassula rupestris hybrid</i>
C1	<i>Rebutia jujuyana</i>	C3	<i>Crassula streyei</i>
C1	<i>Rebutia krainziana</i>	C3	<i>Crassula teres Rattlesnake Plant</i>
C1	<i>Rebutia kupperiana</i>	C3	<i>Crassula x Buddha's Temple</i>
C1	<i>Rebutia marsoneri</i>	C3	<i>Crassula x Christine</i>
C1	<i>Rebutia miniscula</i>	C3	<i>Crassula x Coralita</i>
C1	<i>Rebutia muscula</i>	C3	<i>Crassula x Emerald</i>
C1	<i>Rebutia perplexa</i>	C3	<i>Crassula x Fernwood</i>
C1	<i>Rebutia pulchella</i>	C3	<i>Crassula x Ivory Pagoda</i>
C1	<i>Rebutia pygmaea</i>	C3	<i>Crassula x Moonglow</i>
C1	<i>Rebutia violacea</i>	C3	<i>Crassula x Morgan's Pink</i>
C1	<i>Rosularia platyphyllo</i>	C3	<i>Crassula x Tiny Tim variegata</i>
C1	<i>Sempervivum aracnoideum</i>	C3	<i>Dudleya greenii cv. White Sprite</i>
C1	<i>Sempervivum calcareum</i>	C3	<i>Echeveria x Mona Loa</i>
C1	<i>Sempervivum tectorum</i>	C3	<i>Echeveria x Paul Bunyon</i>
C1	<i>x Graptoveria Amethorum</i>	C3	<i>Edithcolea grandis</i>
C1	<i>x Graptoveria Silver Star</i>	C3	<i>Euphorbia cap-saintmariensis</i>
C2	<i>Cremonosedium x Little Gem</i>	C3	<i>Euphorbia decaryi v. decaryi</i>
C2	<i>Echeveria affinis</i>	C3	<i>Euphorbia decaryi v. spirosticha</i>
C2	<i>Echeveria agavoidea</i>	C3	<i>Euphorbia knuthii</i>
C2	<i>Echeveria bella</i>	C3	<i>Euphorbia milii v. imperatae Mini Crown of thorns</i>
C2	<i>Echeveria derenbergii</i>	C3	<i>Fockea edulis</i>
C2	<i>Echeveria harmsii</i>	C3	<i>Gasteria liliputana</i>
C2	<i>Echeveria minima</i>	C3	<i>Gasteria obtusifolia</i>
C2	<i>Echeveria purpusorum</i>	C3	<i>Gasteria verruculosa</i>
C2	<i>Echeveria subsessilis variegata</i>	C3	<i>Gasteria x Frosty</i>
C2	<i>Echeveria x Arlie Wright</i>	C3	<i>Gasterworthia x Gordo</i>
C2	<i>Echeveria x Doris Taylor</i>	C3	<i>Graptopetalum superbum</i>
C2	<i>Echeveria x Firelight</i>	C3	<i>Gymnocalycium friedrichii Red Cap</i>
C2	<i>Echeveria x Wavy Curls</i>	C3	<i>Hatiora salicornoides</i>
C2	<i>Notocactus haselbergii</i>	C3	<i>Haworthia angustifolia Riebeeck East</i>
C2	<i>Pachyveria hybrid</i>	C3	<i>Haworthia attenuata</i>
C2	<i>x Graptoveria Debbie</i>	C3	<i>Haworthia attenuata v. clariperla</i>
C3	<i>Aeonium arboreum</i>	C3	<i>Haworthia baccata</i>
C3	<i>Aeonium arboreum crest</i>	C3	<i>Haworthia baccata X reinwardtii</i>
C3	<i>Aeonium arboreum cv. Sunburst</i>	C3	<i>Haworthia bolusii v. bolusii</i>
		C3	<i>Haworthia browniana</i>

Cactus & Succulents for Shade

Code	Botanical Name	Code	Botanical Name
C3	<i>Haworthia coarctata</i> v. <i>coarctata</i>	C3	<i>Haworthia retusa</i> X <i>truncata</i>
C3	<i>Haworthia coarctata</i> v. <i>coarctata</i> <i>greenii</i>	C3	<i>Haworthia retusa</i> X <i>truncata</i> Harry Johnson III
C3	<i>Haworthia comptoniana</i>	C3	<i>Haworthia roseoluteus</i>
C3	<i>Haworthia cooperi</i>	C3	<i>Haworthia scabra</i>
C3	<i>Haworthia cooperi</i> v. <i>leightonii</i>	C3	<i>Haworthia scabra</i> v. <i>morriseae</i>
C3	<i>Haworthia cymbiformis</i> <i>lepidia</i>	C3	<i>Haworthia sordida</i>
C3	<i>Haworthia cymbiformis</i> <i>mucronata</i>	C3	<i>Haworthia springbokvlakensis</i>
C3	<i>Haworthia cymbiformis</i> <i>obtusa</i>	C3	<i>Haworthia translucens</i> v. <i>tenera</i>
C3	<i>Haworthia cymbiformis</i> <i>transciens</i>	C3	<i>Haworthia truncata</i>
C3	<i>Haworthia emelyae</i> v. <i>multifolia</i>	C3	<i>Haworthia turgida</i> v. <i>rodinii</i>
C3	<i>Haworthia fasciata</i>	C3	<i>Haworthia turgida</i> v. <i>turgida</i>
C3	<i>Haworthia fouchei</i>	C3	<i>Haworthia unicolor</i>
C3	<i>Haworthia herbacea</i>	C3	<i>Haworthia variegata</i>
C3	<i>Haworthia herrei</i> v. <i>glaucha</i>	C3	<i>Haworthia venosa</i> ssp. <i>tesselata</i>
C3	<i>Haworthia herrei</i> v. <i>herrei</i>	C3	<i>Haworthia viscosa</i> v. <i>caespitosa</i>
C3	<i>Haworthia herrei</i> v. <i>jacobseniana</i>	C3	<i>Haworthia viscosa</i> v. <i>viscosa</i>
C3	<i>Haworthia koelmaniorum</i>	C3	<i>Haworthia wooleyii</i>
C3	<i>Haworthia limifolia</i>	C3	<i>Haworthia x Fatso</i>
C3	<i>Haworthia lockwoodii</i>	C3	<i>Haworthia x Manda's Hybrid</i>
C3	<i>Haworthia magnifica</i> v. <i>magnifica</i>	C3	<i>Haworthia xyphiphylla</i>
C3	<i>Haworthia magnifica</i> v. <i>major</i>	C3	<i>Haworthia zantneriana</i>
C3	<i>Haworthia magnifica</i> v. <i>major</i>	C3	<i>Haworthia emelyae</i> (<i>picta</i>)
C3	<i>Haworthia magnifica</i> v. <i>paradoxa</i>	C3	<i>Kalanchoe beharensis</i> <i>monstrose</i>
C3	<i>Haworthia marumiana</i>	C3	<i>Kalanchoe eriophylla</i>
C3	<i>Haworthia marumiana</i>	C3	<i>Kalanchoe tomentosa</i>
C3	<i>Haworthia maughanii</i>	C3	<i>Ledebouria socialis</i>
C3	<i>Haworthia maughanii</i> X <i>truncata</i>	C3	<i>Melocactus axinophorus</i>
C3	<i>Haworthia minima</i>	C3	<i>Melocactus azulensis</i>
C3	<i>Haworthia mirabolis</i>	C3	<i>Melocactus azureus</i>
C3	<i>Haworthia mutica</i>	C3	<i>Melocactus broadwayi</i>
C3	<i>Haworthia nigra</i>	C3	<i>Melocactus concinnus</i>
C3	<i>Haworthia parksiana</i>	C3	<i>Melocactus conoides</i>
C3	<i>Haworthia pumila</i>	C3	<i>Melocactus deynacanthus</i>
C3	<i>Haworthia pygmaea</i>	C3	<i>Melocactus diersianus</i>
C3	<i>Haworthia reinwardtii</i> v. <i>chalumnensis</i>	C3	<i>Melocactus disciformis</i>
C3	<i>Haworthia reinwardtii</i> v. <i>chalwinii</i>	C3	<i>Melocactus ernestii</i>
C3	<i>Haworthia reinwardtii</i> v. <i>conspicua</i>	C3	<i>Melocactus ferrophillus</i> v. <i>longispinus</i>
C3	<i>Haworthia reinwardtii</i> v. <i>kaffirdriftensis</i>	C3	<i>Melocactus guttarti</i>
C3	<i>Haworthia reinwardtii</i> v. <i>tenuis</i>	C3	<i>Melocactus iacuensis</i> HU 166
C3	<i>Haworthia reinwardtii</i> v. <i>zebrina</i>	C3	<i>Melocactus lindselinkianus</i>
C3	<i>Haworthia resendeana</i>	C3	<i>Melocactus macrodiscus</i>
C3	<i>Haworthia reticulata</i> v. <i>hurlingii</i>	C3	<i>Melocactus matanzanus</i>
C3	<i>Haworthia reticulata</i> v. <i>reticulata</i>	C3	<i>Melocactus neomontanus</i>
C3	<i>Haworthia retusa</i>	C3	<i>Melocactus pachyacanthus</i>
C3	<i>Haworthia retusa</i> (large)	C3	<i>Melocactus rubrispinus</i>
C3	<i>Haworthia retusa</i> fm. <i>geraldii</i>	C3	<i>Melocactus violaceus</i>
C3	<i>Haworthia retusa</i> v. <i>acuminata</i>	C3	<i>Melocactus warasii</i>
C3	<i>Haworthia retusa</i> v. <i>dekenahii</i>	C3	<i>Sedum furfuraceum</i>
C3	<i>Haworthia retusa</i> v. <i>multilineata</i>		