

# **LIST & SEARCH INSTRUCTIONS**

## **Two methods to quickly find specific information in this document**

These techniques apply to a PC laptop and often work on other devices.

### **QUICK SEQUENTIAL REVIEW OF INFORMATION BY BOOKMARKS (Like a TOC)**

- 1) Click on this pdfs' "Bookmarks" or "Table of Contents" icon
- 2) A column will appear listing the contents by pages or sections
- 3) Scroll down the list and click on desired item to jump to that page

### **SEARCH FOR PARTIAL OR EXACT WORDS ANYWHERE IN THE DOCUMENT**

- 1) Activate the pdf "Find" function by clicking on its icon (or press Ctrl and F keys)
- 2) Enter your search characters in the white rectangle box at the top of the page
- 3) Note, as you start typing it will begin searching, showing the number of found characters strings that you are typing
- 4) If the document is large the search may takes a minute or two
- 5) As you type characters the number of matches will probably decrease
- 6) The found characters will be highlighted, the highlight is often very subtle
- 7) Use the up/down arrows or previous/next words to go to found word pages



# Tucson Cactus and Succulent Society January 2020

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Agave chazaroi

- **Raffle**
- **Origin: Mexico (Jalisco)**
- **Min temp: protect from frost**
- **Recently described (2007)**
- **Forms large open rosette**
  - **Height: to 5 ft**
  - **Diameter: to 5 ft**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well drained soil mix**



# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Head height: to 6 in
  - Head diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave victoria-reginae

- **Raffle plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Often found with Hechtia in native habitat**
- **Grows slowly as dense rosette**
  - **Height: to 10 in**
  - **Diameter: to 18 in**
- **Propagated from seed**
- **Full / filtered sun**
- **Water when dry in warm weather**
- **Use well-drained soil mix**



# Echinocereus triglochidiatus



- Raffle plant
- Origin: Mexico, USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas)
- Min temp: to 14 deg F
- Forms cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Senecio stapeliformis

- Raffle
- Origin: South Africa
- Min temp: protect from frost
- Underground shoots emerge to form upright stems
  - Height: to 12 in
  - Stem diameter: to ½ in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil





# Stenocereus thurberi



- Raffle
- Origin: Arizona, Mexico
- Min temp: to 24 deg F
- AKA 'Organ Pipe Cactus'
- Forms cluster of tall stems
  - Stem diameter to 8 in
  - Height: to 15 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Aloe nobilis variegata

- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: up to 6 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus hexadrophorus



- Door prize
- Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Monadenium guentheri

- Door prize
- Origin: East Africa, Kenya
- Protect from frost
- Forms compact clumps
  - Height: to 8 in
  - Stem diameter: to 1 in
- Propagated from cuttings, underground shoots, seeds
- Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter



# Ferocactus stainesii



- Door prize
- Origin: Mexico (Nuevo Leon, San Luis Potosi, Coahuila, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form clumps in time
  - Diameter: to 15 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Oscularia deltooides

- Door prize
- Origin: South Africa
- Min temp: protect from frost
- AKA 'Ice Plant'
- Grows into dense cluster
  - Diameter: to 11 in
  - Height: to 11 in
- Propagated from seed, cuttings
- Filtered sun
- Well-drained soil



# Echinocereus klapperi



- Door prize
- Origin: Mexico (Sonora)
- Min temp: protect from frost
- In habitat grows in oak woodland
- Clusters
  - Stem diameter: to 1 in
  - Height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Astrophytum myriostigma quadricostatum



- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria camptotricha cv marnier-lapostollei

- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Forms large, flat clump of stems
  - Stem diameter: to 2 in
  - Clump height: to 4 in
- Full / Filtered sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Echinocereus reichenbachii ssp fitchii



- Free plant
- Origin: Texas (Starr, Webb, Zapadta Counties)
- Min temp: to 14 deg F
- Brown central spines
- Branches freely from base
  - Stem diameter: to 4 in
  - Stem height: to 14 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Leuchtenbergia principis

- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus rigidissimus var rubrispinus 'albiflorus'



- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Spines grow in dusty red-purple bands
- Solitary
  - Height: to 5 inches
  - Diameter: to 2 inches
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia winteriana



- **Free plant**
- **Origin: Peru (altitudes ~ 9,000)**
- **Min temp: to 30 deg F**
- **Usually solitary, may branch at base**
  - **Diameter: to 3 in**
  - **Height: to 5 in**
- **Propagated from seed or offsets**
- **Full / Filtered sun**
- **Likes cooler temperatures**
- **Water when dry during warm weather**
- **Well-drained soil**



# Gymnocalycium bruchii ssp matznetteri

- Free plant
- Origin: Argentina (Cordoba)
- Min temp: to 14 deg F
- May form clusters at base
  - Stem height: to 3 in
  - Stem diameter: to 2 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Neoporteria huascensis

- Free plant
- Origin: Chile (Atacama)
- Min temp: to 14 deg F
- Occurs in coastal areas where little else grows
- Grows buried in ground – almost impossible to spot without flowers
  - Stem diameter: to 4 in
  - Stem height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum capricorne var senilis



- Free plant
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- In habitat grows among grasses in rock crevices
- Usually solitary
  - Diameter: to 6 in
  - Height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria hahniana



- Free plant
- Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil

# Acanthocalycium violaceum



## Free plant

- Origin: Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 18 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus hamatacanthus ssp hamatacanthus

- Free plant
- Origin: New Mexico, Texas, Northern Mexico
- Min temp: 18 deg F
- Solitary
  - Width: up to 12 inches
  - Height: up to 24 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus macrodiscus



- Free plant
- Origin: Mexico (San Luis Potosi, Guanajuato, Oaxaca)
- Min temp: protect from frost in colder areas
- Grows very slowly and stays low
- Usually solitary
  - Diameter: to 12 in
  - Height: to 5 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium pflanzii

## v albipulpa

- Free plant
- Origin: Bolivia
- Min temp: 15 deg F
- Fruit pulp is white
- Usually solitary, may cluster with age
  - Diameter: to 6 inches
  - Height: to 4 inches
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Notocactus warasii



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: protect from frost in colder areas**
- **In habitat grows in rock cracks on walls**
- **Solitary at first, may cluster in time**
  - **Stem height: to 18 in**
  - **Stem diameter: to 8 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Well-drained soil**

# Notocactus vanvlietii



- Free plant
- Origin: Uruguay
- Min temp: protect from frost in colder areas
- Flowers are glossy yellow
- Usually solitary
  - Stem height: to 5 in
  - Stem diameter: to 4 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Mammillaria longiflora ssp stampfera

- Free plant
- Origin: Mexico (Durango, Chihuahua)
- Min temp: protect from frost in colder areas
- Forms small clusters
  - Stem diameter: to 3 inches
  - Stem height: to 2 inches
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus magnificus



- **Free plant**
- **Origin: Brazil, Paraguay, Uruguay, Argentina**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem height: to 12 in**
  - **Stem diameter: to 6 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Well-drained soil**

# Gymnocalycium damsii v rotundulum

- Free plant
- Origin: Bolivia, Brazil, Paraguay
- Min temp: protect from frost in colder areas
- Usually solitary
  - Stem diameter: to 4 inches
  - Stem height: to 4 inches
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus lauii



- **Free plant**
- **Origin: Mexico (Sonora, Chihuahua)**
- **Min temp: to 14 deg F**
- **Forms cluster at base**
  - **Stem height: to 4 in**
  - **Stem diameter: to 1 1/2 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Well-drained soil**

# Mammillaria polyedra

- Free plant
- Origin: Mexico (Guerrero, Oaxaca, Puebla)
- Min temp: protect from frost in colder areas
- Forms large clusters
  - Stem diameter: to 5 inches
  - Stem height: to 12 inches
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thank You To Our Plant Suppliers This Month:

- Miles' To Go
- Shady Way Gardens
- Starr Nursery







# Tucson Cactus and Succulent Society February 2020

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Carnegiea gigantea 'Saguaro'



- Special Raffle
- 36-inch rescued saguaro
- From Kolb Road widening project
- White tickets
  - \$5 each
  - 5 tickets for \$20

# Mammillaria montensis

- Raffle
- Origin: Mexico (Chihuahua, Sonora)
- Min temp: to 14 deg F
- Solitary
  - Diameter: to 6 in
  - Height: to 5 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave hybrid 'Blue Glow'

*A attenuata* x *A ocahui*

- **Raffle**
- **Origin: Cultivar**
- **Min temp: 20 deg F**
- **Solitary rosette**
  - Height: up to 2 ft
  - Diameter: up to 3 ft
- **Propagated by pups and coring**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Echinocereus triglochidiatus



- **Raffle**
- **Origin: Mexico, USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas)**
- **Min temp: to 14 deg F**
- **Forms cluster**
  - **Stem diameter: to 3 in**
  - **Height: to 1 ft**
- **Propagated from seed**
- **Full / Filtered sun**
- **Well-drained soil**

# Euphorbia clavigera f persistens

- Raffle
- Origin: Swaziland, Mozambique, South Africa
- Min temp: protect from frost
- Forms spreading clusters with caudex
  - Height: to 12 in
  - Diameter: to 12 in
  - Caudex diameter: to 5 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Ferocactus townsendianus



- Raffle
- Origin: Mexico (Baja California)
- Min temp: 25 deg F
- Grows slowly
- Usually solitary
  - Diameter: to 12 in
  - Height: to 20 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia horrida nova

- **Raffle**
- **Origin: South Africa (Great Karoo)**
- **Min temp: protect from frost**
- **Stem has stripes of white and green**
- **Forms clusters of cylindrical stems**
  - **Stem height: 2 ft**
  - **Stem diameter: to 8 in**
- **Propagated from seed, cuttings**
- **Full / Filtered sun**
- **Medium water use**
- **Use well drained soil mix**



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Echinocactus platyacanthus



- Door prize
- Origin: Mexico (Northeast, Central)
- Min temp: to 14 deg F
- Slow growing; forms massive barrel
  - Diameter: to 4 ft
  - Height: to 7 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Sansevieria singularis

- Door prize
- Origin: Kenya, Tanzania
- Min temp: protect from frost
- Forms tall spears and rosettes
  - Height: to 5 ft
  - Diameter: to 1 1/2 in
- Propagated from seed, cuttings
- Filtered sun / Shade
- Water when dry during warm weather
- Use well drained soil mix



# Mammillaria longimamma



- Door prize
- Origin: Mexico (Hidalgo, Queretaro)
- Min temp: to 14 deg F
- At first solitary but forms clusters in time
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Gerrardanthus macrorhizus

- Door prize
- Origin: S Africa (Eastern Cape, KwaZulu-Natal)
- Min temp: protect from frost
- Climbing vine that forms caudex
  - Caudex diameter: to 16 in
  - Caudex height: to 7 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteraloe beguinii

- Door prize
- Origin: Cultivar
- Protect from frost
- *Aloe aristata* x *Gasteria carinata* v *verrucosa*
- Forms round rosettes
  - Height: to 10 in
  - Diameter: to 10 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter



# Ferocactus schwarzii



- Door prize
- Origin: Mexico (Sinaloa)
- Min temp: to 14 deg F
- Becomes nearly spineless with age
- Usually solitary
  - Diameter: to 1.5 ft
  - Height: to 2.5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Echeveria 'Lola'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- *Echeveria lilacina* x *E deresina*
- Forms rosette with offsets
  - Stem diameter: to 3 in
  - Stem height: to 2 in
- Full / Filtered sun
- Propagated from offsets, seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia venosa tessellata

- Free plant
- Origin: South Africa, Namibia
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 5 in
  - Stem diameter: to 3 in
- Propagated from offsets
- Pattern on leaves more prominent with bright sun
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia cuspidata

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- *Haworthia retusa* x *H cymbiformis*
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus magnificus



- **Free plant**
- **Origin: Brazil, Paraguay, Uruguay, Argentina**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem height: to 12 in**
  - **Stem diameter: to 6 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Well-drained soil**

# Plectranthus amboinicus

- Free plant
- Origin: Southern and Eastern Africa
- Min temp: protect from frost
- Has aromatic leaves
- Forms small hanging shrub
  - Plant diameter: to 3 in
  - Stem height: to 8 in
- Propagated by seed, stem cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Echinocereus reichenbachii ssp fitchii



- Free plant
- Origin: Texas (Starr, Webb, Zapata Counties)
- Min temp: to 14 deg F
- Brown central spines
- Branches freely from base
  - Stem diameter: to 4 in
  - Stem height: to 14 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echeveria minima

- Free plant
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 4 in
  - Stem height: to 1 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus lenginghausii

- Free plant
- Origin: Brazil (Rio Grande do Sul)
- Min temp: to 14 deg F
- Starts as a columnar cactus that clusters from its base
  - Stem height: to 2 ft
  - Stem diameter: to 5 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Kalanchoe humilis

- **Free plant**
- **Origin: Africa (Tanzania, Mozambique)**
- **Min temp: protect from frost**
- **May form low-growing shrub**
  - **Stem height: to 24 in**
  - **Plant diameter: to 24 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Neochilenia jessieui



- Free plant
- Origin: Chile
- Min temp: to 14 deg F
- Usually solitary, may branch at base
  - Diameter: to 3 in
  - Height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Adromischus sp

- Free plant
- Origin: S Africa
- Min temp: protect from frost
- Forms clusters
  - Plant diameter: to 4 in
  - Stem height: to 8 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Graptopetalum bellum

- **Free plant**
- **Origin: Mexico (Chihuahua, Sonora)**
- **Min temp: protect from frost**
- **Solitary, may cluster with age**
  - **Diameter: to 4 in**
  - **Height: to 2 in**
- **Propagated by seed, offsets, rooting of individual leaves**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



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- EcoGro LLC
- Shady Way Gardens
- Miles' To Go







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FREE PLANTS**

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# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Ferocactus acanthodes var lecontei



- Special Raffle
- 12-inch rescued barrel
- From Kingman rescue
- White tickets
  - \$5 each
  - 5 tickets for \$20

# Yucca schottii

- Raffle
- Origin: USA (Arizona, New Mexico), Mexico (Sonora, Coahuila)
- Min temp: to 14 deg F
- Forms one or two branches
  - Branch diameter: to 6 ft
  - Branch height: to 12 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Oreocereus trollii

‘Old Man of the Andes’



- Raffle
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Habitat: Arid mountains to 13,000 ft
- Forms chunky clustered columns
  - Diameter per stem: to 6 in
  - Height: to 2 ft
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Yucca rupicola

- Raffle
- Origin: Texas (west-central)
- Min temp: to 14 deg
- AKA 'Twisted-Leaf Yucca'
- Eventually forms clump
  - Stem height: to 2 ft
  - Stem diameter: to 2 ft
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather (does not need to be watered once established)
- Use well drained soil mix



# Mammillaria candida

- Raffle
- Origin: Mexico (Coahuila, Guanajuato, Nuevo Leon, San Luis Potosi, Tamaulipas)
- Min temp: to 14 deg F
- Aka 'Snowball Cactus'
- Forms small clusters
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus emoryi ssp covillei



- Raffle
- Origin: Mexico (Sonora); Arizona (Yuma, Maricopa Co)
- Min temp: to 14 deg F
- Usually solitary, forms heavy spines
  - Diameter: to 18 in
  - Height: to 2 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Gonialoe sladeniana

- Raffle
- Origin: Namibia
- Min temp: protect from frost
- Grows very slowly
- Forms dense clump
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seeds, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Astrophytum ornatum



- Door prize
- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: to 14 deg F
- Forms solitary short column
  - Diameter: to 1 ft
  - Height: to 3 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Yucca baccata

- Door prize
- Origin: SW USA (Arizona, California, Utah, Texas); NW Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg
- May be solitary or clumped
  - Stem height: to 3 ft
  - Stem diameter: to 2 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Use well drained soil mix



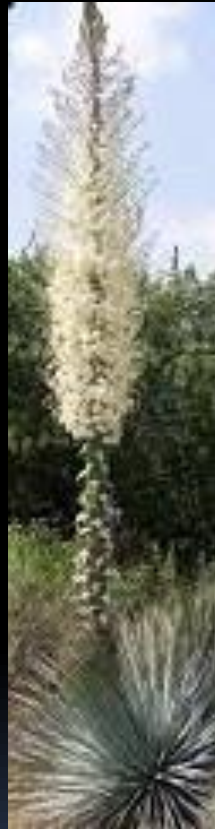
# Echinocereus triglochidiatus



- Door prize
- Origin: Mexico, USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas)
- Min temp: to 14 deg F
- Forms cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Yucca whipplei

- Door prize
- Origin: USA (California)
- Min temp: to 10 deg F
- Plant dies after blooming but is often replaced by offsets
- Aka "Hesperoyucca"
- Forms dense rosette
  - Height: to 4 ft
  - Width: to 5 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Echinocactus texensis



- Door prize
- Origin: USA (Texas, New Mexico, Oklahoma); Mexico (Coahuila, Nuevo Leon, Durango, Tamaulipas)
- Min temp: to 14 deg F
- Habitat: Open oak woodland, often hidden in grass (hence nickname, 'Horse Crippler')
- Grows as flat, circular barrel
  - Diameter: to 1 ft
  - Height: to 6 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave montana

- Door prize
- Origin: NE Mexico
- Min temp: to 10 deg F
- Habitat
  - Mountains to 9000 feet
- Forms compact rosette
- Solitary
  - Height: up to 4 ft
  - Diameter: up to 5 ft
- Propagated from seed
- Full / filtered sun
- Water when dry in warm weather
- Use well-drained soil mix





# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Coryphantha cornifera



- **Free plant**
- **Origin: Mexico (Queretaro, Hidalgo)**
- **Min temp: 14 deg F**
- **Usually solitary**
  - **Diameter: to 6 in**
  - **Height: to 6 in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Gymnocalycium chiquitanum



- Free plant
- Origin: Bolivia
- Min temp: protect from frost
- Usually solitary
  - Stem height: to 2 in
  - Stem diameter: to 3 in
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Mammillaria sphaerica



- Free plant
- Origin: USA (SE Texas), Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Prolific bloomer
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil

# Haworthia venosa tessellata

- Free plant
- Origin: South Africa, Namibia
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 5 in
  - Stem diameter: to 3 in
- Propagated from offsets
- Pattern on leaves more prominent with bright sun
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia cuspidata

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- *Haworthia retusa* x *H cymbiformis*
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Trichocereus terscheckii



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus lenginghausii

- Free plant
- Origin: Brazil (Rio Grande do Sul)
- Min temp: to 14 deg F
- Starts as a columnar cactus that clusters from its base
  - Stem height: to 2 ft
  - Stem diameter: to 5 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Neochilenia jessieui



- Free plant
- Origin: Chile
- Min temp: to 14 deg F
- Usually solitary, may branch at base
  - Diameter: to 3 in
  - Height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Kalanchoe rhombopilosa

- Free plant
- Origin: S Madagascar
- Min temp: protect from frost
- Forms clusters
  - Plant diameter: to 4 in
  - Stem height: to 8 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus latispinus



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Solitary**
  - **Stem diameter: to 14 in**
  - **Stem height: to 12 in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave parryi v huachuensis



- Free plant
- Origin: SE Arizona; Mexico (Chihuahua)
- Min temp: to 14 deg F
- Forms fairly compact clusters with broad leaves
  - Rosette diameter: to 24 in
  - Rosette height: to 18 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Stenocereus thurberi



- Free plant
- Origin: Arizona, Mexico
- Min temp: to 24 deg F
- AKA 'Organ Pipe Cactus'
- Forms cluster of tall stems
  - Stem diameter to 8 in
  - Height: to 15 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave filifera

- **Free plant**
- **Origin: Mexico (Queretero)**
- **Min temp: to 14 deg F**
- **AKA 'thread agave'**
- **Forms medium size rosette**
  - **Diameter: to 2 ft**
  - **Height: to 2 ft**
- **Propagated by seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Echinopsis subdenudata

- **Free plant**
- **Origin: Bolivia, Paraguay**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**





# Mammillaria standleyi



- Free plant
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria parkinsonii



- Free plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Aka 'Owl's Eyes'
- Forms clusters
  - Head height: to 6 in
  - Head diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria melanocentra

- Free plant
- Origin: Mexico (Coahuila, Durango, Tamaulipas, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 4 inches
  - Width: up to 6 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria matudae



## Free plant

- Origin: Mexico (Michoacan)
- Min temp: protect from frost
- Forms wide clusters in time
  - Stem length: to 20 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Bach's Greenhouse Cactus Nursery
  - EcoGro LLC
- Shady Way Gardens
  - Starr Nursery





# Tucson Cactus and Succulent Society January 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Yucca rostrata

- **Raffle plant**
- **Origin: Texas; Mexico (Coahuila, Chihuahua)**
- **Min temp: to 14 deg**
- **AKA 'Big Bend Yucca'**
- **May be solitary or branching**
  - **Stem height: to 12-16 ft**
  - **Stem diameter: to 3 ft**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather (does not need to be watered once established)**
- **Use well drained soil mix**





# Uebelmannia pectinifera



- **Raffle plant**
- **Origin: Brazil (Minas Gerais)**
- **Min temp: protect from frost**
- **Often grafted**
- **Rare**
- **Usually solitary**
  - **Stem height: to 24 in**
  - **Stem diameter: to 5 in**
- **Propagated by seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Beaucarnea recurvata

- **Raffle plant**
- **Origin: Mexico (Tamaulipas, Veracruz)**
- **Min temp: 25 deg F**
- **Grows slowly**
- **Usually has solitary caudex with single trunk**
  - **Diameter: to 24 inches**
  - **Height: to 15 feet**
- **Propagated from seed, offsets taken from base**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria thornberi



- Raffle plant
- Origin: Arizona; Mexico (Sonora)
  - TCSS Field Guide page 150
- Min temp: to 14 deg F
- Grows under nurse plants
- Forms a cluster with branches that all root in the ground
  - Stem height: to 4 in
  - Stem diameter: to 1 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia nerifolia variegata

- Raffle plant
- Origin: India
- Min temp: protect from frost
- Habitat: dry rocky ground
- Forms small tree
  - Height: to 12 ft
  - Diameter: to 3 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Use well-drained soil



# Opuntia pycnantha



- Raffle plant
- Origin: Mexico (Baja California)
- Min temp: protect from frost?
- Grows in coastal scrub in sandy soil or dunes
- Forms numerous branches
  - Height: to 2 ft
  - Diameter: to 2 ft
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Mammillaria prolifera



- Door prize
- Origin: USA (Texas); Mexico (Coahuila, Nuevo Leon); Cuba; Dominican Republic; Haiti
- Min temp: to 14 deg F
- Forms clusters with age
  - Stem diameter: to 2 in
  - Stem height: to 2 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Euphorbia tirucalli 'Firestick'

- Door prize
- Origin: South Africa, India
- Min temp: to 25 deg F
- Forms shrub
  - Diameter: to 6 ft
  - Height: to 6 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria standleyi



- Door prize
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid 'nobilis'

- Door prize
- Origin: South Africa
- Hardy to 25 deg F
- Forms clusters
  - Stem diameter: to 7 in
  - Height: up to 24 inches
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Opuntia sulfurea



- Door prize
- Origin: Argentina, Bolivia
- Min temp: to 25 deg F
- Branching pads
  - Height: to 18 inches
  - Joint length: to 8 in
- Propagated from seed or cuttings
- Full sun
- Water when dry during warm weather
- Use well-drained soil

# Agave potatorum (dwarf)

- Door prize
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 8 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# FREE PLANTS

## **Rules:**

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**Please be courteous**

# Mammillaria longimamma



- Free plant
- Origin: Mexico (Hidalgo, Queretaro)
- Min temp: to 14 deg F
- At first solitary but forms clusters in time
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Dyckia rariflora

- **Free plant**
- **Origin: Brazil (Minas Gerais)**
- **Min temp: protect from frost**
- **Forms small clusters**
  - **Diameter: to 12 in**
  - **Leaf length: to 8 in**
- **Full / Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Pleiospilos nelli

- Free plant
- Origin: South Africa (Little Karoo, Great Karoo)
- Min temp: protect from frost
- Forms small clusters
  - Stem diameter: to 3 in
  - Clump height: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Didierea trollii

- Free plant
- Origin: Madagascar
- Min temp: protect from frost
- Spiny stems initially grow along the ground
- Eventually grow into erect shrub resembling an octopus
  - Shrub height: to 6 ft
  - Shrub width: to 2 ft
- Filtered sun
- Propagated from offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# Sulcorebutia candiae



- Free plant
- Origin: Bolivia
- Min temp: to 14 deg F
- Solitary, may form clusters with age
  - Stem diameter: to 2 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Lithops (assorted species)

## Free plant

- Origin: South Africa
- Min temp: protect from frost
- Flower - white or yellow
- Forms small clusters
  - Stem diameter: to 2 in
  - Height: to 1 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum ornatum



- Free plant
- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: to 14 deg F
- Forms solitary short column
  - Diameter: to 1 ft
  - Height: to 3 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Albuca namaquensis

- Free plant
- Origin: South Africa (Eastern Cape); Namibia
- Min temp: protect from frost
- Forms clusters of bulbs
  - Height: to 6 in
  - Bulb width: to 1 in
- Filtered sun
- Propagated from offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# Mammillaria decipiens

## ssp decipiens



- Free plant
- Origin: Mexico (San Luis Potosi, Guanajuato, Queretaro)
- Min temp: protect from frost in colder areas
- Forms clusters
  - Stem diameter: to 2 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Albuca bracteata

- Free plant
- Origin: South Africa (Cape Provinces, KwaZulu-Natal)
- Min temp: protect from frost
- Forms clusters of bulbs above ground
  - Height: to 6 in
  - Bulb width: to 1 in
- Sap can cause contact dermatitis
- Filtered sun
- Propagated from bulbets, seed
- Water when dry during warm weather
- Use porous, well-drained soil



# Coryphantha macromeris



- **Free plant**
- **Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Durango, Zacatecas)**
- **Min temp: to 14 deg F**
- **Has deep taproot**
- **Branches, forms low mound**
  - **Stem diameter: to 4 in**
  - **Stem height: to 6 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Euphorbia fruticosa

- Free plant
- Origin: Yemen
- Min temp: protect from frost
- Grows in drought-deciduous shrub-land
- Forms clusters branching at base
  - Stem height: to 16 in
  - Stem width: to 3 in
- Sap can cause contact dermatitis
- Filtered sun
- Propagated from offsets, seed
- Water when dry during warm weather
- Use porous, well-drained soil



# Copiapoa barquitenensis



- Free plant
- Origin: Chile (Antofagasta)
- Min temp: protect from frost
- Usually solitary
  - Width: to 2 in
  - Height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pachycereus schottii var mieckleyanus monstrose



- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Grows slowly
- This form has thinner stems with less tubercles
- Forms tall columnar stems that branch at the base
  - Stem height: to 12 ft
  - Stem width: to 3 in
- Full / Filtered sun
- Propagated from cuttings, offsets
- Water when dry during warm weather
- Use porous, well-drained soil

# Tylocodon paniculatus var dinteri

- Free plant
- Origin: South Africa (Cape Provinces); Namibia
- Min temp: protect from frost
- Deciduous in summer heat
- Forms short branching tree
  - Height: to 3 ft
  - Width: to 3 ft
- Filtered sun
- Propagated from cuttings, seed
- Water when dry during warm weather
- Use porous, well-drained soil



# Ferocactus wislizeni



- Free plant
- Origin: USA (Arizona, New Mexico, Texas); Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Aka 'Fishhook Barrel'
- Usually solitary
  - Stem diameter: to 24 in
  - Stem height: to 6 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Mike Ellis
- EcoGrow
- TCSS Cactus Rescue Crew







# Tucson Cactus and Succulent Society February 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Ferocactus histrix



- Raffle
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave colorata hybrid

- Raffle
- Origin: Mexico (Sonora)
- Min temp: to 18 deg F
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 2 ft
- Propagated from seed and cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria rubrograndis

- Raffle
- Origin: Mexico (Coahuila, Durango, Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 7 in
  - Height: to 5 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use porous, well-drained soil



# Agave macroacantha x victoria-reginae

- Raffle
- Origin: Mexico
- Min temp: to 23 deg F
- Solitary and compact
  - Height: to 18 in
  - Diameter: to 2 ft
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather (does not need to be watered once established)
- Use well drained soil mix



# Agave murpheyi 'Rodney'

- Raffle
- Origin: Arizona, Mexico (Sonora)
- Min temp: to 10 deg F
- Named after Rodney Engard, former director of Desert and Tucson Botanical Gardens
- Forms clusters
  - Diameter: to 3 ft
  - Height: to 3 ft
- Propagated from plantlets on blooming stalk
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus townsendianus

- Raffle
- Origin: Mexico (Baja California)
- Min temp: 25 deg F
- Grows slowly
- Usually solitary
  - Diameter: to 12 in
  - Height: to 20 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Mammillaria thornberi



- Door Prize
- Origin: Arizona; Mexico (Sonora)
  - TCSS Field Guide page 150
- Min temp: to 14 deg F
- Grows under nurse plants
- Forms a cluster with branches that all root in the ground
  - Stem height: to 4 in
  - Stem diameter: to 1 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria geminispina



- Door Prize
- Origin: Mexico (Hidalgo, Queretaro, San Luis Potosi)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia horrida

- Door Prize
- Origin: South Africa (Great Karoo)
- Min temp: give protection in colder areas
- Forms clusters of cylindrical stems
  - Stem height: 2 ft
  - Stem diameter: to 8 in
- Propagated from seed, cuttings
- Full / Filtered sun
- Medium water use
- Use well drained soil mix



# Echinocactus platyacanthus



- Door prize
- Origin: Mexico (Northeast, Central)
- Min temp: to 14 deg F
- Slow growing; forms massive barrel
  - Diameter: to 4 ft
  - Height: to 7 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave montana

- Door prize
- Origin: Mexico
- Min temp: to 10 deg F
- Forms low clusters
  - Diameter: to 4 ft
  - Height: to 4 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave parryi v couesii



- Door prize
- Origin: Arizona (Coconino, Yavapai, Gila counties)
- Min temp: to 14 deg F
- Forms large clusters
  - Rosette diameter: to 24 in
  - Rosette height: to 18 in
- TCSS field guide p. 229
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**



# Lobivia aculeata

- Free plant
- Origin: Bolivia (Tinquipaya, Potosi) (altitudes ~ 11,000)
- Min temp: to 14 deg G
- Form of *Echinopsis pentlandii*
- Forms clusters
  - Diameter: to 3 in
  - Height: to 5 in
- Propagated from seed or offsets
- Filtered sun
- Likes cooler temperatures
- Water when dry during warm weather
- Well-drained soil



# Notocactus herteri ssp roseoluteus



- Free plant
- Origin: Brazil (Rio Grande do Sul), Uruguay, Argentina
- Min temp: to 14 deg F
- Usually forms single rosette
  - Stem diameter: to 7 in
  - Height: to 6 in
- Filtered sun
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria schiedeana

## ssp schiedeana

### Free plant

- Origin: Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Ferocactus glaucescens 'inermis'



- **Free plant**
- **Origin: Cultivar**
- **Min temp: give protection in colder areas**
- **Spines tend to fall off as plant ages**
- **Initially solitary, may form large mound of multiple heads**
  - **Height: to 2 ft**
  - **Diameter: to 18 in**
- **Has white fruit**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Soehrensia korethroides

## (Echinopsis formosa ssp korethroides)

- Free plant
- Origin: Argentina (Los Andes)
- Min temp: to 10 deg F
- Tolerates ice, snow, hail and rain
- Solitary at first, forms colonies with age
- Matures into barrel with dense spines
  - Stem height: to 2 ft
  - Stem width: to 1 ft
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather,
- Use porous, well-drained soil



# Turbincarpus horripilus

## var horripilus



- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: to 14 deg F
- Eventually forms cluster
  - Stem diameter: to 3 in
  - Stem height: to 7 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Astrophytum myriostigma

## 'nudum'

- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Mammillaria plumosa



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Has soft, feathery spines
- Forms low dense clumps
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia obrepanda calorubra

- Free plant
- Origin: Bolivia
- Min temp: to 14 deg F
- Natural hybrid
- Readily forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated by cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma quadricostatum



- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Ferocactus viridescens

- Free plant
- Origin: Baja California (Mexico) and southwestern California
- Min temp: 25 deg F
- Found in rocky coastal bluffs
- Usually solitary
  - Width: up to 10 inches
  - Height: up to 15 inches
- Propagated from seed
- Full/ filtered sun
- Water when dry during warm weather
- Well-drained soil



# Oreocereus trollii

‘Old Man of the Andes’



- Free plant
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Habitat: Arid mountains to 13,000 ft
- Forms chunky clustered columns
  - Diameter per stem: to 6 in
  - Height: to 2 ft
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium friedrichii

- Free plant
- Origin: Paraguay
- Min temp: Protect from frost in colder areas
- Solitary plant with banded body
  - Height: to 5 in
  - Diameter: to 5 in
- Has gray-green fruit
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum ornatum



- Free plant
- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: to 14 deg F
- Forms solitary short column
  - Diameter: to 1 ft
  - Height: to 3 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Coryphantha greenwoodii

- Free plant
- Origin: Mexico (Piedras Blancas, Veracruz)
- Min temp: to 14 deg F
- Usually solitary, may cluster in time
  - Stem height: to 5 in
  - Stem diameter: to 5 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus rigidissimus var rubrispinus 'albiflorus'



- **Free plant**
- **Origin: Cultivar**
- **Min temp: to 14 deg F**
- **Solitary**
  - **Height: to 5 inches**
  - **Diameter: to 2 inches**
- **Propagated from seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Haworthia species



- **Free plant**
- **Origin: East Africa**
- **Protect from frost**
- **Forms rosettes that cluster**
  - **Stem diameter: to 4 in**
  - **Stem height: to 4 in**
- **Propagated from offsets, seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echinopsis 'Maria Piazza' (Schick)

- **Free plant**
- **Origin: Cultivar**
- **Min temp: to 14 deg F**
- **Popular variety**
- **Forms clusters of globes**
  - **Stem height: to 3 in**
  - **Stem diameter: to 3**
- **Propagated from cuttings**
- **Filtered sun**
- **Well-drained soil**



# Haworthia limifolia striata hybrid



- **Free plant**
- **Origin: East Africa**
- **Protect from frost**
- **Forms rosettes that cluster**
  - **Stem diameter: to 4 in**
  - **Stem height: to 4 in**
- **Propagated from offsets, seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Thank You To Our Plant Suppliers This Month:

- Miles' To Go
- B & B Cactus Farm
- Shady Way Gardens
- TCSS Cactus Rescue Crew





# Tucson Cactus and Succulent Society March 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Head height: to 6 in
  - Head diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Echeveria gibbiflora

- Raffle plant
- Origin: Cultivar
- Min temp: protect from frost
- Usually solitary rosette
  - Diameter: to 12 in
  - Height: to 1 ft
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria apozolensis



- **Raffle plant**
- **Origin: Mexico (Guanajuato, Queretaro, Zacatecas)**
- **Min temp: to 14 deg F**
- **Usually solitary, may form cluster in time**
  - **Stem height: to 10 in**
  - **Stem diameter: to 9 in**
- **Propagated by seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Pachypodium sofienae

- Raffle plant
- Origin: Madagascar (Sofia River)
- Min temp: protect from frost
- May branch at base
  - Diameter: to 1 ft
  - Height: to 20 ft
- Propagated from seed and cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus histrix



- Raffle plant
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid

- Raffle plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Diameter: to 12 in
  - Height: to 14 in
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Oreocereus trollii

‘Old Man of the Andes’



- Door prize
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Habitat: Arid mountains to 13,000 ft
- Forms chunky clustered columns
  - Diameter per stem: to 6 in
  - Height: to 2 ft
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aeonium kiwi 'Sunburst'

- Door prize
- Origin: Cultivar (haworthia hybrid)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 6 in
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil





# Thelocactus rinconensis var freudenbergeri



- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 15 deg F
- Solitary
  - Height: to 4 in
  - Diameter: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Kalanchoe tomentosa

## ‘Chocolate Soldier’

- Door prize
- Origin: Madagascar
- Min temp: to 25 deg F
- Forms small shrub
  - Stem diameter: to 3 in
  - Stem height: to 2 ft
- Propagated from seed, leaf cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria mystax



- Door prize
- Origin: Mexico (central)
- Min temp: to 14 deg F
- Flowers rose-purple
- Usually solitary
  - Height: to 6 in
  - Diameter: to 4 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Echeveria gibbiflora

- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Usually solitary rosette
  - Diameter: to 12 in
  - Height: to 1 ft
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia retusa

- **Free plant**
- **Origin: South Africa (Cape Province)**
- **Min temp: protect from frost**
- **Has fenestrate (window-like) leaves**
- **Forms shiny star-shaped rosette**
  - **Stem diameter: to 2 in**
  - **Height: to 2 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Ferocactus macrodiscus



- Free plant
- Origin: San Luis Potosi, Guanajuato, Mexico
- Min temp: 25 deg F
- Solitary; slow growing
- Aka: 'Candy Barrel'
- Height: up to 12 inches
- Diameter: up to 12 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia 'White Ghost'

- **Free plant**
- **Origin: South Africa (Cape Province)**
- **Min temp: protect from frost**
- **Has fenestrate (window-like) leaves**
- **Forms shiny star-shaped rosette**
  - **Stem diameter: to 2 in**
  - **Height: to 2 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia cooperi

- **Free plant**
- **Origin: South Africa (Eastern Cape Province)**
- **Min temp: protect from frost**
- **Forms cluster**
  - **Rosette diameter: to 4 in**
  - **Rosette height: to 4 in**
- **Propagated from seed or offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Stenocactus albatus



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 6 inches
  - Width: up to 4 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echeveria chihuahuensis

- **Free plant**
- **Origin: Mexico**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem height: to 6 in**
  - **Stem diameter: to 4 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Well-drained soil**



# Mammillaria tlayecac (R0831)



- Free plant
- Origin: Mexico (Tlayecac)
- Min temp: protect from frost
- Possibly M multisetata?
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus alamosanus

- Free plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Thank You To Our Plant Suppliers This Month:

- EcoGro
- Miles' To Go
- Shady Way Gardens







# Tucson Cactus and Succulent Society April 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria rekoii v leptacantha



- **Raffle**
- **Origin: Mexico (Oaxaca)**
- **Min temp: to 15 deg F**
- **Forms mounded clusters**
  - **Stem height: to 8 in**
  - **Stem diameter: to 4 in**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave filifera

- **Raffle**
- **Origin: Mexico (Queretero)**
- **Min temp: to 14 deg F**
- **AKA 'thread agave'**
- **Forms medium size rosette**
  - **Diameter: to 2 ft**
  - **Height: to 2 ft**
- **Propagated by seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Ferocactus rectispinus



- Raffle
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 24 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Well-drained soil

# Pachypodium geayi

- Raffle
- Origin: Madagascar
- Min temp: protect from frost
- Leaves have a white stripe
- Forms tall bottle-shaped tree that may branch in time
  - Stem diameter: to 2 ft
  - Height: to 15 ft
- Propagated by seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus rinconensis



- **Raffle**
- **Origin: Mexico (Nuevo Leon)**
- **Min temp: to 15 deg F**
- **Solitary**
  - **Height: to 4 in**
  - **Diameter: to 8 in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave bovicornuta

- **Raffle**
- Origin: Mexico (Sonora, Sinaloa, Chihuahua)
- Min temp: to 25 deg F
- Usually solitary
  - Diameter : to 5 ft
  - Height: to 3 ft
- Filtered sun
- Propagated by seed
- Water when dry during warm weather
- Well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Mammillaria spinosissima



- Door prize
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave montana

- Door prize
- Origin: Mexico
- Min temp: to 10 deg F
- Forms low clusters
  - Diameter: to 4 ft
  - Height: to 4 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus histrix



- Door prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Dasyllirion quadrangulatum



- Door prize
- Origin: Mexico (Coahuila, Tamaulipas, San Luis Potosi)
- Min temp: to 14 deg
- AKA 'Mexican grass tree'
- Usually solitary
  - Stem height: to 10 ft
  - Stem diameter: to 5 ft
- Full sun
- Propagated by seed
- Water when dry during warm weather (does not need to be watered once established)
- Use well drained soil mix

# Mammillaria longimamma



- Door prize
- Origin: Mexico (Hidalgo, Queretaro)
- Min temp: to 14 deg F
- At first solitary but forms clusters in time
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid

- Door Prize
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: to 14 in
- Filtered sun
- Water when dry in warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**



# Thelocactus hexadrophorus



- **Free plant**
- **Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 8 in**
  - **Stem height: to 3 in**
- **Full sun**
- **Propagated from seed**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Pachypodium succulentum

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Slow growing
- Forms large turnip-shaped caudex
  - Height: to 6 ft
  - Diameter of caudex: to 10 in
- Propagated from seeds and root or stem cuttings
- Full / Filtered sun
- Water when dry in warm weather
- Use well-drained soil mix



# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



# Astrophytum capricorne



- Free plant
- Origin: Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Spines serve as camouflage in grass
- Usually solitary
  - Stem diameter: to 6 in
  - Stem height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms small cluster
  - Diameter: to 6 in
  - Height: to 12 in
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Dorstenia species

- Free plant
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria tlayecac (R0831)



- Free plant
- Origin: Mexico (Tlayecac)
- Min temp: protect from frost
- Possibly M multisetata?
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus viridescens

- Free plant
- Origin: Baja California (Mexico) and southwestern California
- Min temp: 25 deg F
- Found in rocky coastal bluffs
- Usually solitary
  - Width: up to 10 inches
  - Height: up to 15 inches
- Propagated from seed
- Full/ filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus herteri ssp roseoluteus



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul), Uruguay, Argentina**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 7 in**
  - **Height: to 6 in**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Coryphantha greenwoodii

- Free plant
- Origin: Mexico (Piedras Blancas, Veracruz)
- Min temp: to 14 deg F
- Usually solitary, may cluster in time
  - Stem height: to 5 in
  - Stem diameter: to 5 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinopsis 'Maria Piazza' (Schick)

- **Free plant**
- **Origin: Cultivar**
- **Min temp: to 14 deg F**
- **Popular variety**
- **Forms clusters of globes**
  - **Stem height: to 3 in**
  - **Stem diameter: to 3**
- **Propagated from cuttings**
- **Filtered sun**
- **Well-drained soil**



# Lobivia aculeata

- Free plant
- Origin: Bolivia (Tinquipaya, Potosi) (altitudes ~ 11,000)
- Min temp: to 14 deg G
- Form of *Echinopsis pentlandii*
- Forms clusters
  - Diameter: to 3 in
  - Height: to 5 in
- Propagated from seed or offsets
- Filtered sun
- Likes cooler temperatures
- Water when dry during warm weather
- Well-drained soil



# Turbincarpus horripilus

## var horripilus



- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: to 14 deg F
- Eventually forms cluster
  - Stem diameter: to 3 in
  - Stem height: to 7 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Starr Nursery
  - Miles' To Go
    - EcoGro
- Shady Way Gardens
  - Skip Brown





# Tucson Cactus and Succulent Society May 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**



# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# SPECIAL RAFFLE

## Queen of the Night

*Peniocereus greggii*

- Tuber : 13 lbs
- White tickets
- Price \$5 each / 5 for \$20

Rescued by Rob Romero at Saguaros Viejos in Oro Valley



# Mammillaria rekoii v leptacantha



- **Raffle**
- **Origin: Mexico (Oaxaca)**
- **Min temp: to 15 deg F**
- **Forms mounded clusters**
  - **Stem height: to 8 in**
  - **Stem diameter: to 4 in**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave chazaroi

- **Raffle**
- **Origin: Mexico (Jalisco)**
- **Min temp: protect from frost**
- **Recently described (2007)**
- **Forms large open rosette**
  - **Height: to 5 ft**
  - **Diameter: to 5 ft**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well drained soil mix**



# Astrophytum ornatum



- Raffle
- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: to 14 deg F
- Forms solitary short column
  - Diameter: to 1 ft
  - Height: to 3 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Agave celsii variegata

- **Raffle**
- Origin: Mexico (Jalisco)
- Min temp: to 20 deg F
- Forms large open rosette
  - Height: to 2 ft
  - Diameter: to 2 ft
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well drained soil mix



# Mammillaria apozolensis



- **Raffle**
- **Origin: Mexico (Guanajuato, Queretaro, Zacatecas)**
- **Min temp: to 14 deg F**
- **Usually solitary, may form cluster in time**
  - **Stem height: to 10 in**
  - **Stem diameter: to 9 in**
- **Propagated by seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Sansevieria fischeri

- **Raffle**
- **Origin: Kenya, Tanzania**
- **Min temp: protect from frost**
- **Forms tall spears and rosettes**
  - **Height: to 5 ft**
  - **Diameter: to 1 1/2 in**
- **Propagated from seed**
- **Filtered sun / Shade**
- **Water when dry during warm weather**
- **Use well drained soil mix**





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Echinocereus stoloniferus



- Door prize
- Origin: Mexico (Sonora, Chihuahua)
- Min temp: to 20 deg F
- Forms clumps via underground stolons
  - Stem diameter: to 2 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Senecio rowleyanus

- Door prize
- Origin: Southwest Africa
- Min temp: protect from frost
- Forms trailing stems
  - Diameter: to ½ in
  - Length: to 2 ft
- Spherical leaves have an 'epidermal window' that allows sunlight to enter and irradiate interior
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Coleocephalocereus aureus



- Door prize
- Origin: Brazil (Minas Gerais)
- Min temp: protect from frost
- Forms small columnar cactus
  - Stem diameter: to 5 in
  - Stem height: to 3 ft
- Forms cephalum along one side when mature enough to flower
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia tirucalli 'Firestick'

- Door prize
- Origin: South Africa, India
- Min temp: to 25 deg F
- Forms shrub
  - Diameter: to 6 ft
  - Height: to 6 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus alamosanus



- Door prize
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe Haworthia hybrid

- Door Prize
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 5 in
- Filtered sun
- Water when dry in warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Faucaria tigrina

- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Trichocereus terscheckii



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave pelona

- **Free plant**
- **Origin: Mexico (Sonora)**
- **Min temp: to 21 deg F**
- **Forms round solitary rosette**
  - **Diameter: to 6 ft**
  - **Height: to 6 ft**
- **Propagated from seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Echinopsis chamaecereus hybrid (‘Peanut Cactus’)



- Free plant
- Origin: Argentina? (Has not been found in the wild since 1900)
- Min temp: to 14 deg F
- Forms hanging clumps
  - Stem diameter: to 1 in
  - Stem length: to 6 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Crassula hybrid

## 'Baby's Necklace'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms a cluster with multiple stems that eventually creep
  - Height: to 12 in
  - Diameter: to ½ in
- *C perforata* x *rupestris*  
ssp *marnieriana*
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Thelocactus hexadrophorus



- Free plant
- Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Pachypodium succulentum

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Slow growing
- Forms large turnip-shaped caudex
  - Height: to 6 ft
  - Diameter of caudex: to 10 in
- Propagated from seeds and root or stem cuttings
- Full / Filtered sun
- Water when dry in warm weather
- Use well-drained soil mix





# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



# Astrophytum capricorne



- Free plant
- Origin: Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Spines serve as camouflage in grass
- Usually solitary
  - Stem diameter: to 6 in
  - Stem height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms small cluster
  - Diameter: to 6 in
  - Height: to 12 in
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria tlayecac (R0831)



- Free plant
- Origin: Mexico (Tlayecac)
- Min temp: protect from frost
- Possibly M multisetata?
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Coryphantha greenwoodii

- **Free plant**
- **Origin: Mexico (Piedras Blancas, Veracruz)**
- **Min temp: to 14 deg F**
- **Usually solitary, may cluster in time**
  - **Stem height: to 5 in**
  - **Stem diameter: to 5 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Kalanchoe synsepala



- **Free plant**
- **Origin: S Africa (Northern Cape)**
- **Min temp: protect from frost**
- **Forms hanging offsets that can 'walk' from one pot to another**
  - **Diameter: to 9 inches**
  - **Height: to 10 inches**
- **Propagated from seed or offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Coryphantha salinensis

- **Free plant**
- **Origin: Mexico (Coahuila, Hidalgo, Nuevo Leon)**
- **Min temp: give some protection in colder areas**
- **Usually solitary**
  - **Stem height: to 6 in**
  - **Stem diameter: to 4 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**





# Corpuscularia taylorii



- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Diameter: to 3 in
  - Height: to 8 in
- Propagated from seed or offsets
- Filtered sun
- AKA 'Ice plant'
- Water when dry during warm weather
- Well-drained soil

# Escobaria missouriensis var asperispina

- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- May form clusters
  - Stem height: to 6 in
  - Stem diameter: to 4 in
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Titanopsis calcarea



- **Free plant**
- **Origin: Namibia, South Africa (Cape Province, Orange Free State)**
- **Min temp: protect from frost**
- **Forms small, low rosette**
  - **Stem diameter: to 3 in**
  - **Stem height: to 1 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

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- Bach's Greenhouse Cactus Nursery
  - Miles' To Go
- Shady Way Gardens
  - Starr Nursery
    - EcoGro
  - Rob Romero
  - Skip Brown
  - Donna Ellis





# Tucson Cactus and Succulent Society June 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria rekoii v leptacantha



- Raffle
- Origin: Mexico (Oaxaca)
- Min temp: to 15 deg F
- Forms mounded clusters
  - Stem height: to 8 in
  - Stem diameter: to 4 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Manfreda hybrid 'Macho Mocha'

- **Raffle**
- **Origin: Mexico**
- **Min temp: to 10 deg F**
- **Agave celsii x Manfreda variegata**
- **Forms a rosette**
  - **Height: to 3 ft**
  - **Diameter: to 5 ft**
- **Propagated by seed**
- **Full / Filtered sun**
- **Well-drained soil**





# Ferocactus townsendianus



- Raffle
- Origin: Mexico (Baja California)
- Min temp: 25 deg F
- Grows slowly
- Usually solitary
  - Diameter: to 12 in
  - Height: to 20 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Didieria trollii

- Raffle
- Origin: SW Madagascar
- Min temp: protect from frost
- Habitat: sandy dunes
- Grows prostrate for years before growing erect
  - Height: to 15 ft
  - Width: to 12 ft
  - Cane diameter: to 6 in
- Propagated from seed, grafts
- Full / filtered sun
- Water when dry in warm weather
- Use well-drained soil mix



# Mammillaria rubrograndis



- Raffle
- Origin: Mexico (Coahuila, Durango, Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 7 in
  - Height: to 5 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use porous, well-drained soil

# Cyphostemma juttae

- **Raffle**
- **Origin: Namibia, South Africa**
- **Min temp: can tolerate light frost**
- **Slow growing**
- **Deciduous in winter**
- **Forms caudiciform trunk**
  - **Height: to 6 ft**
  - **Diameter: to 3 ft**
- **Propagated from seed, cuttings**
- **Full / Filtered sun**
- **Use well-drained soil**



# DOOR PRIZES

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# Echinocereus bartheLOWanus



- Door prize
- Origin: Mexico (Baja California Sur, Magdalena and Margarita Islands)
- Min temp: protect from frost
- Forms clusters of loosely connected stems
  - Stem diameter: to 2 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Fouquieria splendens

- Door prize
- Origin: Arizona
- Min temp: to 14 deg F
- Aka 'Ocotillo'
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 12 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Mammillaria sonorensis

## Rio Yaqui form



- Door prize
- Origin: Mexico (Sonora, Sinaloa, Chihuahua)
- Min temp: to 14 deg F
- Grows slowly
- Eventually forms large mounds
  - Stem height: to 6 in
  - Diameter per stem: to 6 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil



# Yucca rostrata

- Door prize
- Origin: Texas; Mexico (Coahuila, Chihuahua)
- Min temp: to 14 deg
- AKA 'Big Bend Yucca'
- May be solitary or branching
  - Stem height: to 12-16 ft
  - Stem diameter: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather (does not need to be watered once established)
- Use well drained soil mix



# Denmoza rhodacantha



- Door prize
- Origin: Argentina (Mendoza—Salta)
- Min temp: to 14 deg F
- Grows slowly, eventually forms columnar cactus
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia hybrid

- Door Prize
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 5 in
- Filtered sun
- Water when dry in warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

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**Please be courteous**

# Leuchtenbergia principis

- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Corpuscularia taylorii



- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Diameter: to 3 in
  - Height: to 8 in
- Propagated from seed or offsets
- Filtered sun
- AKA 'Ice plant'
- Water when dry during warm weather
- Well-drained soil

# Mammillaria perbella

- Free plant
- Origin: Central Mexico
- Min temp: to 14 deg F
- Aka 'Owl Eye Cactus'
- Forms dichotomous branching
  - Stem diameter: to 5 in
  - Stem height: to 8 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Monadenium ritchiei



- **Free plant**
- **Origin: East Africa, Kenya**
- **Protect from frost**
- **Forms compact clumps**
  - **Height: to 8 in**
  - **Stem diameter: to 1 in**
- **Leaves, stems take on purplish hue in enough light**
- **Propagated from cuttings, underground shoots, seeds**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**
- **Keep dry in winter**



# Mammillaria camptotricha cv marnier-lapostollei

- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Forms large, flat clump of stems
  - Stem diameter: to 2 in
  - Clump height: to 4 in
- Full / Filtered sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Plectranthis tenuiformis



- **Free plant**
- **Origin: Ethiopia, Somalia, East Africa**
- **Min temp: protect from frost**
- **Forms spreading clusters with woody stems**
  - **Height: to 12 in**
  - **Diameter: to 12 in**
- **Member of mint family**
  - **Leaves highly aromatic**
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Mammillaria schiedeana

## ssp schiedeana

### Free plant

- Origin: Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Euphorbia clavigera f persistens



- Free plant
- Origin: Swaziland, Mozambique, South Africa
- Min temp: protect from frost
- Forms spreading clusters with caudex
  - Height: to 12 in
  - Diameter: to 12 in
  - Caudex diameter: to 5 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Mammillaria plumosa



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Has soft, feathery spines
- Forms low dense clumps
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Faucaria tigrina

- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Trichocereus terscheckii



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave pelona

- **Free plant**
- **Origin: Mexico (Sonora)**
- **Min temp: to 21 deg F**
- **Forms round solitary rosette**
  - **Diameter: to 6 ft**
  - **Height: to 6 ft**
- **Propagated from seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**





# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Coryphantha salinensis

- **Free plant**
- **Origin: Mexico (Coahuila, Hidalgo, Nuevo Leon)**
- **Min temp: give some protection in colder areas**
- **Usually solitary**
  - **Stem height: to 6 in**
  - **Stem diameter: to 4 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Escobaria missouriensis var asperispina

- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- May form clusters
  - Stem height: to 6 in
  - Stem diameter: to 4 in
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



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    - Skip Brown





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**RAFFLE PLANTS  
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FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Ferocactus latispinus



- Raffle
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Yucca rostrata

- **Raffle**
- **Origin: Texas; Mexico (Coahuila, Chihuahua)**
- **Min temp: to 14 deg**
- **AKA 'Big Bend Yucca'**
- **May be solitary or branching**
  - **Stem height: to 12-16 ft**
  - **Stem diameter: to 3 ft**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather (does not need to be watered once established)**
- **Use well drained soil mix**



# Mammillaria rekoii v leptacantha



- Raffle
- Origin: Mexico (Oaxaca)
- Min temp: to 15 deg F
- Forms mounded clusters
  - Stem height: to 8 in
  - Stem diameter: to 4 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Dasyllirion texanum

## ‘Texas or Green Soto1’

- **Raffle**
- Origin: Texas (Trans-Pecos), Mexico
- Min temp: to 14 deg
- May be solitary or clumped
  - Height: to 6 ft
  - Diameter: to 4 ft
- Propagated from seed
- Full sun
- To establish, water when dry during warm weather
  - Shouldn't need water after that
- Use well drained soil mix



# Mammillaria geminispina



- **Raffle**
- **Origin: Mexico (Hidalgo, Queretaro, San Luis Potosi)**
- **Min temp: to 14 deg F**
- **Forms large clusters**
  - **Stem diameter to 3 in**
  - **Height: to 15 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Yucca rigida



- **Raffle**
- **Origin: Mexico (Chihuahua, Durango, Zacatecas)**
- **Min temp: to 14 deg F**
- **Has minimal branching near top**
- **Slow growing, tree-like yucca**
  - **Height: to 12 ft**
  - **Diameter: to 5 ft**
- **Propagated from seeds**
- **Full / filtered sun**
- **To establish, water when dry during warm weather**
  - **Shouldn't need water after that**
- **Well-drained soil**

# DOOR PRIZES

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**Must have your name tag**

# Echinocereus coccineus

## 'orange flower'



- Door Prize
- Origin: USA (Arizona, Texas, New Mexico, Colorado, Utah, Nevada, California) and Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter: to 4 in.
  - Stem height: to 15 in.
- Spination highly variable
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Huernia species



- Door prize
- Origin: East and South Africa
- Min temp: protect from frost
- Grows slowly
- Has star-shaped flowers that may smell
- Eventually forms clusters
  - Stem height: to 6 in
  - Cluster diameter: to 12 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil



# Ferocactus stainesii

## var pilosus

- Door prize
- Origin: Mexico (Nuevo Leon, San Luis Potosi, Coahuila, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form clumps in time
  - Diameter: to 15 in
  - Height: to 3 ft
- Propagated from seed or offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pereskia aculeata cv godseffiana

- Door prize
- Origin: Cultivar
- Original species native to Brazil, Central America, West Indies
- Min temp: protect from frost
- Considered best living representative of ancestral cacti
- Creates spreading leafy shrub
  - Height: to 4 ft
- Propagated from seed, cuttings
- Needs extra water
- Full / Filtered sun
- Use well-drained soil



# Mammillaria standleyi



- Door prize
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia tortilis

- Door Prize
- Origin: India
- Min temp: protect from frost
- Forms rigid, erect tree
  - Height: to 4 ft
  - Diameter: to 24 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# FREE PLANTS

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**Please be courteous**

# Leuchtenbergia principis

- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia makallensis



- **Free plant**
- **Origin: Ethiopia**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 1 in**
  - **Stem height: to 4 in**
- **Filtered sun**
- **Water when dry in warm weather**
- **Well-drained soil**

# Mammillaria plumosa



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Has soft, feathery spines
- Forms low dense clumps
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria schiedeana

## ssp schiedeana

### Free plant

- Origin: Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Faucaria tigrina

- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria perbella

- Free plant
- Origin: Central Mexico
- Min temp: to 14 deg F
- Aka 'Owl Eye Cactus'
- Forms dichotomous branching
  - Stem diameter: to 5 in
  - Stem height: to 8 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus rigidissimus ssp rubispinus 'albiflorus'



- Free plant
- Origin: Chihuahua, Mexico
- Min temp: 15 deg F
- Solitary
  - Height: up to 8 inches
  - Diameter: up to 4 inches
- Spine color varies between reddish brown, grey, pink, and white in alternating horizontal bands
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in cold weather

# Monadenium ritchiei



- **Free plant**
- **Origin: East Africa, Kenya**
- **Protect from frost**
- **Forms compact clumps**
  - **Height: to 8 in**
  - **Stem diameter: to 1 in**
- **Leaves, stems take on purplish hue in enough light**
- **Propagated from cuttings, underground shoots, seeds**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**
- **Keep dry in winter**

# Astrophytum myriostigma quadricostatum



- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Aloe variegata

- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**





# Notocactus scopa

- **Free plant**
- **Origin: Southern Brazil, Uruguay**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 4 in**
  - **Height: to 15 in**
- **Full / filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**



# Ferocactus viridescens

- **Free plant**
- Origin: Baja California (Mexico) and southwestern California
- Aka "Coast Barrel" or "San Diego Barrel"
- Min temp: 25 deg F
- Found in rocky coastal bluffs
- Usually solitary
  - Width: up to 10 inches
  - Height: up to 15 inches
- Propagated from seed
- Full/ filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus buiningii

- Free plant
- Origin: Brazil, Uruguay
- Min temp: can tolerate occasional frost in warmer areas of town
- Usually solitary
  - Stem diameter: to 5 in
  - Stem height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus herteri ssp roseoluteus



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul), Uruguay, Argentina**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 7 in**
  - **Height: to 6 in**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Ferocactus macrodiscus



- Free plant
- Origin: Mexico (San Luis Potosi, Guanajuato, Oaxaca)
- Min temp: protect from frost in colder areas
- Grows very slowly and stays low
- Usually solitary
  - Diameter: to 12 in
  - Height: to 5 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria zeilmanniana



- **Free plant**
- **Origin: Central Mexico**
- **Min temp: 25 deg F**
- **Prolific bloomer**
- **Readily forms clusters**
  - **Height: up to 10 inches**
  - **Diameter: up to 12 inches**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Mammillaria bocasana var 'roseiflora'



- **Free plant**
- **Origin: Mexico (Zacatecas, San Luis Potosi)**
- **Min temp: to 14 deg F**
- **Forms multi-headed clumps**
  - **Stem height: to 2 in**
  - **Stem diameter: to 2 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Frailea bueneckeri

- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: protect from frost**
- **Usually solitary, may form clusters in time**
  - **Stem height: to 1 in**
  - **Stem diameter: to 1 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**





# Lobivia distefanoiana

- **Free plant**
- **Origin: Bolivia, Argentina**
- **Min temp: hardy to 14 deg F**
- **Forms clusters**
  - **Stem height: to 1 in**
  - **Stem diameter: to 1 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Corpuscularia taylorii



- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Diameter: to 3 in
  - Height: to 8 in
- Propagated from seed or offsets
- Filtered sun
- AKA 'Ice plant'
- Water when dry during warm weather
- Well-drained soil

# Mammillaria duwei

- **Free plant**
- **Origin: Mexico (Guanajuato)**
- **Min temp: hardy to 14 deg F**
- **Forms clusters**
  - **Stem height: to 1 in**
  - **Stem diameter: to 1 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Stenocactus erectocentrus

- **Free plant**
- **Origin: Mexico (Coahuila, Chihuahua, Durango)**
- **Min temp: hardy to 14 deg F**
- **Usually solitary**
  - **Stem height: to 5 in**
  - **Stem diameter: to 6 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Plectranthis tenuiformis



- **Free plant**
- **Origin: Ethiopia, Somalia, East Africa**
- **Min temp: protect from frost**
- **Forms spreading clusters with woody stems**
  - **Height: to 12 in**
  - **Diameter: to 12 in**
- **Member of mint family**
  - **Leaves highly aromatic**
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Gymnocalycium bruchii ssp matznetteri

- Free plant
- Origin: Argentina (Cordoba)
- Min temp: to 14 deg F
- May form clusters at base
  - Stem height: to 3 in
  - Stem diameter: to 2 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia clavigera f persistens



- Free plant
- Origin: Swaziland, Mozambique, South Africa
- Min temp: protect from frost
- Forms spreading clusters with caudex
  - Height: to 12 in
  - Diameter: to 12 in
  - Caudex diameter: to 5 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Miles' To Go
- Bach's Greenhouse Cactus Nursery
  - Shady Way Gardens
  - Skip Brown







# Tucson Cactus and Succulent Society August 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# SPECIAL RAFFLE

## Queen of the Night

*Peniocereus greggii*

- Tuber : 8 lbs
- White tickets
- Price \$5 each / 5 for \$20



Rescued by Rob Romero at Santa Rita Road

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Head height: to 6 in
  - Head diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid 'Starry Night'

- **Raffle**
- **Origin: Cultivar**
- **Min temp: protect from frost**
- **Forms rosette**
  - **Height: to 9 in**
  - **Diameter: to 9 in**
- **Propagated from cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well drained soil mix**



# Mammillaria magnimamma



- Raffle
- Origin: Central Mexico
- Min temp: to 14 deg F
- Forms large mounds
  - Stem diameter: to 5 in
  - Stem height: to 6 in
- Full sun
- Propagated from seed or offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Agave pygmaea

- Raffle
- Origin: Guatemala, Mexico (Chiapas)
- Min temp: protect from frost
- Dwarf hybrid 'Dragon Toes'
- Forms rosette
  - Height: to 12 in
  - Diameter: to 12 in
- Grows slowly
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus bartheLowanus



- Raffle
- Origin: Mexico (Baja California Sur, Magdalena and Margarita Islands)
- Min temp: protect from frost
- Forms clusters of loosely connected stems
  - Stem diameter: to 2 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave decipiens (hybrid?)

- Raffle
- Origin: Florida
- Min temp: protect from frost
- Forms clusters
  - Height: to 12 in
  - Diameter: to 10 in
- Propagated from offsets
- Filtered sun
- To establish, water when dry during warm weather
- Use well drained soil mix



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Echinocereus pacificus



- Door Prize
- Origin: Mexico (Baja California)
- Min temp: protect from frost
- Forms small upright clusters
  - Stem diameter: to 4 in.
  - Stem height: to 15 in.
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pedilanthus tithymaloides



- Door prize
- Origin: Central America
- Min temp: protect from frost
- Grows into shrub
  - Height: to 6 ft
  - Diameter: to 2 ft
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Coryphantha cornifera



- Door prize
- Origin: Mexico (Queretaro, Hidalgo)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 6 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe nobilis variegata

- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: up to 6 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus alamosanus



- Door prize
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Sedum hernandezii

- Door Prize
- Origin: Mexico (Puebla)
- Min temp: protect from frost
- Forms clusters of stems
  - Stem height: to 4 in
  - Stem diameter: to 2 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil





# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lapidaria margaretae



- Free plant
- Origin: South Africa, Namibia
- Min temp: protect from frost in colder areas
- Forms cluster
  - Plant height: to 3 in
  - Stem diameter: to 3 in
- Propagated from seed or offsets
- Filtered sun
- Water sparsely to avoid splitting epidermis of plant
- Water when dry during warm weather
- Well-drained gritty soil

# Mammillaria camptotricha cv marnier-lapostollei

- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Forms large, flat clump of stems
  - Stem diameter: to 2 in
  - Clump height: to 4 in
- Full / Filtered sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Anacampseros rufescens

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms small caudex with age
  - Height: to 6 in
  - Caudex diameter: to 2 in
- Propagated from seeds or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Titanopsis calcarea



- Free plant
- Origin: Namibia, South Africa (Cape Province, Orange Free State)
- Min temp: protect from frost
- Forms small, low rosette
  - Stem diameter: to 3 in
  - Stem height: to 1 in
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Rebutia fiebrigii

- Free plant
- Origin: Bolivia
- Min temp: to 14 deg F
- Forms dense cluster of stems
  - Stem diameter: to 1 in
  - Stem height: to 1 in
- Full / Filtered sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Leuchtenbergia principis

- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil





# Plectranthus tomentosus



- **Free plant**
- **Origin: Possibly India**
- **Min temp: protect from frost**
- **Has aromatic leaves**
- **Forms small hanging shrub**
  - **Stem diameter: to 3 in**
  - **Stem height: to 8 in**
- **Propagated by seed, stem cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Euphorbia makallensis



- **Free plant**
- **Origin: Ethiopia**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 1 in**
  - **Stem height: to 4 in**
- **Filtered sun**
- **Water when dry in warm weather**
- **Well-drained soil**

# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Mammillaria schiedeana

## ssp schiedeana

### Free plant

- Origin: Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Faucaria tigrina

- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Plectranthus amboinicus



- **Free plant**
- **Origin: Indonesia (Maluku Islands)**
- **Min temp: protect from frost**
- **Has aromatic leaves**
- **Forms small hanging shrub**
  - **Stem diameter: to 3 in**
  - **Stem height: to 8 in**
- **Propagated by seed, stem cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Astrophytum myriostigma quadricostatum



- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Aloe variegata

- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**





# Notocactus buiningii

- Free plant
- Origin: Brazil, Uruguay
- Min temp: can tolerate occasional frost in warmer areas of town
- Usually solitary
  - Stem diameter: to 5 in
  - Stem height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus macrodiscus



- Free plant
- Origin: Mexico (San Luis Potosi, Guanajuato, Oaxaca)
- Min temp: protect from frost in colder areas
- Grows very slowly and stays low
- Usually solitary
  - Diameter: to 12 in
  - Height: to 5 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria bocasana var 'roseiflora'



- **Free plant**
- **Origin: Mexico (Zacatecas, San Luis Potosi)**
- **Min temp: to 14 deg F**
- **Forms multi-headed clumps**
  - **Stem height: to 2 in**
  - **Stem diameter: to 2 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Gymnocalycium bruchii ssp matznetteri

- Free plant
- Origin: Argentina (Cordoba)
- Min temp: to 14 deg F
- May form clusters at base
  - Stem height: to 3 in
  - Stem diameter: to 2 in
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thank You To Our Plant Suppliers This Month:

- B & B Cactus Farm
  - Miles' To Go
    - Mike Ellis
  - Shady Way Gardens
- TCSS Cactus Rescue Crew





# Tucson Cactus and Succulent Society September 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Prococo Coco Peat Block



- Raffle
- Compressed coconut cor fiber
- 10-lb brick
- Donated by EcoGro



# Lophocereus schottii monstrose



- Raffle
- Origin: Mexico (Sonora, Baja California)
- Min temp: to 14 deg G
- Grows as tall, irregularly shaped pole
  - Diameter: to 6 in
  - Height: to 10 ft
- Naturally occurring hybrid that rarely flowers
- Propagated from cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pachypodium lamerei



- **Raffle**
- Origin: Madagascar
- Min temp: protect from frost
- Forms semi-deciduous stemmed tree with a stout trunk
  - Trunk diameter: to 1 ft
  - Height: to 15 ft
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Trichocereus terscheckii



- Raffle
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia milii v imperatae

- Raffle
- Origin: Madagascar
- Min temp: protect from frost
- Smallest variety of milii
- Forms dwarf shrub
  - Height: to 1 ft
  - Diameter: to 1 ft
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Opuntia ficus-indica cv 'Sunburst'



- Raffle
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters of oval pads
  - Cluster height: to 3 ft
  - Pad length: to 10 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Fouquieria macdougallii

- Raffle
- Origin: Mexico (Sonora)
- Min temp: to 25 deg F
- In same genus as Ocotillo (*Fouquieria splendens*)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Denmoza rhodacantha



- Door prize
- Origin: Argentina (Mendoza—Salta)
- Min temp: to 14 deg F
- Grows slowly, eventually forms columnar cactus
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave parrasana



- Door prize
- Origin: Mexico (Coahuila)
- Grows in Parras Mountains from 4500-8000 ft elevation
- Min temp: to 14 deg F
- Aka 'Cabbage Head Agave'
- Forms compact rosette with few offsets
  - Diameter: to 2 ft
  - Height: to 2 ft
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus pacificus



- Door prize
- Origin: Mexico (Baja California)
- Min temp: protect from frost
- Forms small upright clusters
  - Stem diameter: to 4 in.
  - Stem height: to 15 in.
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Hesperaloe parviflora

- Door prize
- Origin: SW USA (Texas); NE Mexico (Coahuila)
- Min temp: to 14 deg
- Forms arching rosettes
  - Height: to 18 in
  - Diameter: to 22 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil



# Mammillaria mystax



- Door prize
- Origin: Mexico (central)
- Min temp: to 14 deg F
- Flowers rose-purple
- Usually solitary
  - Height: to 6 in
  - Diameter: to 4 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Aloe hybrid

- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms small cluster
  - Diameter: to 6 in
  - Height: to 12 in
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lapidaria margaretae



- Free plant
- Origin: South Africa, Namibia
- Min temp: protect from frost in colder areas
- Forms cluster
  - Plant height: to 3 in
  - Stem diameter: to 3 in
- Propagated from seed or offsets
- Filtered sun
- Water sparsely to avoid splitting epidermis of plant
- Water when dry during warm weather
- Well-drained gritty soil



# Mammillaria camptotricha cv marnier-lapostollei

- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Forms large, flat clump of stems
  - Stem diameter: to 2 in
  - Clump height: to 4 in
- Full / Filtered sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Anacampseros rufescens

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms small caudex with age
  - Height: to 6 in
  - Caudex diameter: to 2 in
- Propagated from seeds or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Titanopsis calcarea



- Free plant
- Origin: Namibia, South Africa (Cape Province, Orange Free State)
- Min temp: protect from frost
- Forms small, low rosette
  - Stem diameter: to 3 in
  - Stem height: to 1 in
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Drimiopsis maculata

- Free plant
- Origin: South Africa
- Min temp: to 25 deg F
- Deciduous bulb
- Forms low spreading clusters
  - Height: to 12 in
  - Diameter: to 12 in
- Medium water needs
- Propagated from bulbs
- Filtered sun
- Use well-drained soil



# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Euphorbia trigona rubra

- **Free plant**
- **Origin: Africa (Angola, Malawi, Gabon)**
- **Min temp: protect from frost**
- **Forms densely compact erect shrub**
  - **Stem width: to 3 in**
  - **Stem height: to 3 ft**
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Gymnocalycium friedrichii



- Free plant
- Origin: Paraguay
- Min temp: to 14 deg F
- Solitary plant with banded body
  - Height: to 5 in
  - Diameter: to 5 in
- Has gray-green fruit
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia venosa tessellata

- Free plants
- Origin: South Africa, Namibia
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 5 in
  - Stem diameter: to 3 in
- Propagated from stolon, offsets
- Pattern on leaves more prominent with bright sun
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Euphorbia stenoclada



- **Free plant**
- **Origin: Madagascar**
- **Min temp: tolerates light frost**
- **Habitat: Rocky outcrops in subtropical dry forest**
- **Forms dense thicket**
  - **Diameter: to 6 ft**
  - **Height: to 6 ft**
- **Propagated from seed germinated in agar, woody stem cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Echinocactus grusonii

- **Free plant**
- **Origin: Mexico (Queretaro)**
- **Min temp: to 14 deg F**
- **Hardy; one of most common cacti in cultivation**
- **Usually solitary, may cluster with age or injury to growing apex**
  - **Diameter: to 18 in**
  - **Height: to 2 ft**
- **Propagated from seed or offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Euphorbia esculenta



- **Free plant**
- **Origin: South Africa (Cape Province)**
- **Min temp: protect from frost**
- **Grows in a spiral and eventually forms underground caudex**
  - **Diameter: to 1 ft**
  - **Height: to 6 in**
- **Propagated from woody stem cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Notocactus ottonis

- Free plant
- Origin: Argentina, Brazil, Paraguay, Uruguay
- Min temp: can tolerate occasional frost
- Forms dwarf clumps
  - Stem diameter: to 5 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia attenuata



- **Free plant**
- **Origin: South Africa (Eastern Cape Province)**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 4 in**
- **Propagated from offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Echinopsis chamaecereus hybrid (‘Peanut Cactus’)



- Free plant
- Origin: Argentina? (Has not been found in the wild since 1900)
- Min temp: to 14 deg F
- Forms hanging clumps
  - Stem diameter: to 1 in
  - Stem length: to 6 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Monadenium ritchiei



- **Free plant**
- **Origin: East Africa, Kenya**
- **Protect from frost**
- **Forms compact clumps**
  - **Height: to 8 in**
  - **Stem diameter: to 1 in**
- **Leaves, stems take on purplish hue in enough light**
- **Propagated from cuttings, underground shoots, seeds**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**
- **Keep dry in winter**

# Opuntia microdasys monstrose



- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Forms dense clusters with twisted pads
- Pads have bright yellow clusters of glochids that fall off easily and irritate skin
  - Pad diameter: to 6 in
  - Shrub height: to 3 ft
- Propagated from pads
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Thank You To Our Plant Suppliers This Month:

- EcoGro
- B & B Cactus Garden
  - Miles' To Go
  - Robert Ellis





# Tucson Cactus and Succulent Society October 2019

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Chips-N-Fiber Block



- Raffle
- Compressed coconut husk
- 10-lb brick
- Donated by EcoGro

# Coleocephalocereus aureus



- Raffle
- Origin: Brazil (Minas Gerais)
- Min temp: protect from frost
- Forms small columnar cactus
  - Stem diameter: to 5 in
  - Stem height: to 16 in
- Forms cephalum along one side when mature enough to flower
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pachypodium lealii ssp saundersii



- Raffle
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria rekoii v leptacantha



- Raffle
- Origin: Mexico (Oaxaca)
- Min temp: to 15 deg F
- Forms mounded clusters
  - Stem height: to 8 in
  - Stem diameter: to 4 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave nickelsiae

- Raffle
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Platyopuntia sulphurea



- **Raffle**
- **Origin: Argentina, Bolivia**
- **Min temp: to 25 deg F**
- **Branching pads**
  - **Height: to 18 inches**
  - **Joint length: to 8 in**
- **Propagated from seed or cuttings**
- **Full sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Euphorbia resinifera

## ‘Moroccan Mound’

- Raffle
- Origin: Morocco
- Min temp: to 20 deg F
- Habitat: Atlas Mountains
- Forms dense rounded mat
  - Diameter: to 3 ft
  - Height: to 2 ft
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus hystrix

- Door prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia tortilis

- Door Prize
- Origin: India
- Min temp: protect from frost
- Forms rigid, erect tree
  - Height: to 4 ft
  - Diameter: to 24 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria grusonii



- Door Prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- One of the largest species in genus
- Usually solitary
  - Diameter: to 12 in
  - Height: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Adenium obesum

- Door Prize
- Origin: Africa, Arabian Peninsula
- Min temp: protect from frost
- Forms caudiciform trunk
  - Plant height: to 6 ft
  - Plant diameter: to 4 ft
- Plant in shallow, wide container to encourage fat caudex
- Propagated from cuttings, seed
- Full / filtered sun
- Well-drained soil



# Oreocereus celsianus



- Door Prize
- Origin: Argentina, Bolivia, Peru
- Min temp: 14 deg F
- “Old Man of the Andes”
- Usually solitary, may cluster at base
  - Width of stem: up to 8 in
  - Height: to 10 ft
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Hesperaloe parviflora

- Door prize
- Origin: SW USA (Texas); NE Mexico (Coahuila)
- Min temp: to 14 deg
- Forms arching rosettes
  - Height: to 18 in
  - Diameter: to 22 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Agave parryi v huachuensis



- Free plant
- Origin: SE Arizona; Mexico (Chihuahua)
- Min temp: to 14 deg F
- Forms fairly compact clusters with broad leaves
  - Rosette diameter: to 24 in
  - Rosette height: to 18 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echinopsis chamaecereus hybrid (‘Peanut Cactus’)



- Free plant
- Origin: Argentina? (Has not been found in the wild since 1900)
- Min temp: to 14 deg F
- Forms hanging clumps
  - Stem diameter: to 1 in
  - Stem length: to 6 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Anacampseros rufescens

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms small caudex with age
  - Height: to 6 in
  - Caudex diameter: to 2 in
- Propagated from seeds or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria backebergiana



- **Free Plant**
- **Origin: Mexico (Guerrero, Michoacan)**
- **Min temp: give some protection in colder areas**
- **Forms slender recumbent column that may cluster in time**
  - **Stem diameter: to 2½ in**
  - **Stem height: to 12 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Titanopsis calcarea



- **Free plant**
- **Origin: Namibia, South Africa (Cape Province, Orange Free State)**
- **Min temp: protect from frost**
- **Forms small, low rosette**
  - **Stem diameter: to 3 in**
  - **Stem height: to 1 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Coryphantha salinensis

- **Free plant**
- **Origin: Mexico (Coahuila, Hidalgo, Nuevo Leon)**
- **Min temp: give some protection in colder areas**
- **Usually solitary**
  - **Stem height: to 6 in**
  - **Stem diameter: to 4 in**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Drimiopsis maculata

- Free plant
- Origin: South Africa
- Min temp: to 25 deg F
- Deciduous bulb
- Forms low spreading clusters
  - Height: to 12 in
  - Diameter: to 12 in
- Medium water needs
- Propagated from bulbs
- Filtered sun
- Use well-drained soil



# Coryphantha recurvata



- **Free plant**
- **Origin: Arizona, Mexico (Sonora)**
- **Min temp: to 14 deg F**
- **Grows very slowly**
  - TCSS field guide pp 38-39
- **Usually solitary, forms clumps with age**
  - Stem height: to 8 in
  - Stem diameter: to 7 in
- **Propagated by seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia venosa tessellata

- Free plant
- Origin: South Africa, Namibia
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 5 in
  - Stem diameter: to 3 in
- Propagated from stolon, offsets
- Pattern on leaves more prominent with bright sun
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria melanocentra

- Free plant
- Origin: Mexico (Coahuila, Durango, Tamaulipas, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 4 inches
  - Width: up to 6 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia makallensis



- **Free plant**
- **Origin: Ethiopia**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 1 in**
  - **Stem height: to 4 in**
- **Filtered sun**
- **Water when dry in warm weather**
- **Well-drained soil**

# Astrophytum capricorne



- Free plant
- Origin: Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Spines serve as camouflage in grass
- Usually solitary
  - Stem diameter: to 6 in
  - Stem height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia esculenta

- **Free plant**
- **Origin: South Africa (Cape Province)**
- **Min temp: protect from frost**
- **Grows in a spiral and eventually forms underground caudex**
  - **Diameter: to 1 ft**
  - **Height: to 6 in**
- **Propagated from woody stem cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria matudae



## Free plant

- Origin: Mexico (Michoacan)
- Min temp: protect from frost
- Forms wide clusters in time
  - Stem length: to 20 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia attenuata



- **Free plant**
- **Origin: South Africa (Eastern Cape Province)**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 4 in**
- **Propagated from offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Echinopsis subdenudata

- Free plant
- Origin: Bolivia, Paraguay
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria heyderi v heyderi



## Free plant

- Origin: New Mexico, Oklahoma, Texas; Mexico (Tamaulipas, Nuevo Leon, Coahuila)
- Min temp: to 14 deg F
- Solitary, grows low to the ground
  - Stem height: to 2 in
  - Stem diameter: to 4 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

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  - B & B Cactus Garden
    - Miles' To Go
    - Skip Brown





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**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**



# Beaucarnea gracilis

- Raffle
- Origin: Mexico
- Min temp: protect from frost in colder areas
- Forms caudiciform trunk
  - Caudex diameter: to 3 ft+
  - Height: to 12 ft+
- Has white flowers
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria rhodantha ssp pringlei



- Raffle
- Origin: Mexico (San Luis Potosi, Jalisco, Guanajuato, Queretaro, Hidalgo)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 5 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave aurea ssp promontorii

- Raffle
- Origin: Mexico (southern Baja California)
- Min temp: protect plant at 25 deg F
- Forms open rosette
  - Diameter: to 8 ft
  - Height: to 6 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Ferocactus hematacanthus



## Raffle

- Origin: USA (New Mexico, Texas); Mexico (Chihuahua)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 8 in
  - Height: to 16 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Cyphostemma juttae

- **Raffle**
- **Origin: Namibia, South Africa**
- **Min temp: can tolerate light frost**
- **Slow growing**
- **Deciduous in winter**
- **Forms caudiciform trunk**
  - **Height: to 6 ft**
  - **Diameter: to 3 ft**
- **Propagated from seed, cuttings**
- **Full / Filtered sun**
- **Use well-drained soil**



# Mammillaria geminispina



- Raffle
- Origin: Mexico (Hidalgo, Queretaro, San Luis Potosi)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Pachypodium bispinosum



- Door prize
- Origin: S Africa (Eastern Cape)
- Min temp: tolerates frost
- Deciduous caudiciform shrub
  - Height: to 5 ft.
  - Base diameter: to 8 in
- Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Trichocereus hybrid (color unknown)

- Door prize
- Origin: Cultivar, most parent species native to Argentina
- Min temp: to 14 deg F
- Flower color ranges from white to yellow, orange, pink, red
- Forms clusters of stems
  - Stem diameter: to 4 in.
  - Height: to 18 in.
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Fouquieria macdougalii

- Door prize
- Origin: Mexico (Sonora)
- Min temp: to 25 deg F
- In same genus as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



# Echinocactus texensis



- Door prize
- Origin: USA (Texas, New Mexico, Oklahoma); Mexico (Coahuila, Nuevo Leon, Durango, Tamaulipas)
- Min temp: to 14 deg F
- Habitat: Open oak woodland, often hidden in grass (hence nickname, 'Horse Crippler')
- Grows as flat, circular barrel
  - Diameter: to 1 ft
  - Height: to 6 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave maximilliana



- Door prize
- Origin: Mexico (Jalisco, Nayarit, Zacatecas)
- Min temp: to 30 deg F
- Usually solitary
  - Diameter: to 24 in
  - Height: to 12 in
- Propagated from seed, rarely from offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria standleyi



- Door prize
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

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**Must stay until end of meeting**

**Please be courteous**

# Agave cerulata

- Free plant
- Origin: Mexico (Baja California)
- Min temp: ?? protect from frost
- Forms clusters at base
  - Diameter: up to 2 ft
  - Height: to 15 in
- Propagated by seeds, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pachypodium bispinosum



- Free plant
- Origin: S Africa (Eastern Cape)
- Min temp: tolerates frost
- Deciduous caudiciform shrub
  - Height: to 5 ft.
  - Base diameter: to 8 in
- Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Agave multiflifera

- Free plant
- Origin: Mexico (Chihuahua, Durango, Sinaloa)
- Min temp: to 14 deg F
- Grows slowly
- Forms dense solitary rosette
  - Diameter: to 4 ft
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Ferocactus gracilis



- Free plant
- Origin: North central Baja California
- Coastal fog desert
- Min temp: 18 deg F
- Solitary
  - Height: up to 3 feet
  - Diameter: up to 12 inches
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave sobria



- Free plant
- Origin: Mexico (Baja California)
- Min temp: tolerated light snowfall last year at Desert Museum
- Forms open rosette with wide-spaced red teeth
  - Diameter: to 3 ft
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Well-drained soil

# Mammillaria backebergiana



- **Free Plant**
- **Origin: Mexico (Guerrero, Michoacan)**
- **Min temp: give some protection in colder areas**
- **Forms slender recumbent column that may cluster in time**
  - **Stem diameter: to 2½ in**
  - **Stem height: to 12 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave bovicornuta

- **Free plant**
- **Origin: Mexico (Sonora, Sinaloa, Chihuahua)**
- **Min temp: to 25 deg F**
- **Usually solitary**
  - **Diameter : to 5 ft**
  - **Height: to 3 ft**
- **Filtered sun**
- **Propagated by seed**
- **Water when dry during warm weather**
- **Well-drained soil**



# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



# Albuca 'Augrabies Hill'



- **Free plant**
- **Origin: South Africa**
- **Min temp: protect from frost**
- **Forms clusters of stems with exposed bulbs**
  - **Bulb diameter: to 2 in**
  - **Stem height: to 6 in**
- **Propagated by seed, offset bulbs**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Coryphantha recurvata



- **Free plant**
- **Origin: Arizona, Mexico (Sonora)**
- **Min temp: to 14 deg F**
- **Grows very slowly**
  - TCSS field guide pp 38-39
- **Usually solitary, forms clumps with age**
  - Stem height: to 8 in
  - Stem diameter: to 7 in
- **Propagated by seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria melanocentra

- Free plant
- Origin: Mexico (Coahuila, Durango, Tamaulipas, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 4 inches
  - Width: up to 6 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia makallensis



- **Free plant**
- **Origin: Ethiopia**
- **Min temp: protect from frost**
- **Forms clusters**
  - **Stem diameter: to 1 in**
  - **Stem height: to 4 in**
- **Filtered sun**
- **Water when dry in warm weather**
- **Well-drained soil**

# Astrophytum capricorne



- Free plant
- Origin: Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Spines serve as camouflage in grass
- Usually solitary
  - Stem diameter: to 6 in
  - Stem height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria matudae



## Free plant

- Origin: Mexico (Michoacan)
- Min temp: protect from frost
- Forms wide clusters in time
  - Stem length: to 20 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria heyderi v heyderi



## Free plant

- Origin: New Mexico, Oklahoma, Texas; Mexico (Tamaulipas, Nuevo Leon, Coahuila)
- Min temp: to 14 deg F
- Solitary, grows low to the ground
  - Stem height: to 2 in
  - Stem diameter: to 4 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Starr Nursery
- Bach's Greenhouse Cactus Nursery
  - Shady Way Gardens
    - Miles' To Go





# Tucson Cactus and Succulent Society January 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**



# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria mystax



- **Raffle plant**
- **Origin: Mexico (central)**
- **Min temp: to 14 deg F**
- **Flowers rose-purple**
- **Usually solitary**
  - **Height: to 6 in**
  - **Diameter: to 4 in**
- **Propagated from seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Yucca rostrata

- **Raffle plant**
- **Origin: Texas; Mexico (Coahuila, Chihuahua)**
- **Min temp: to 14 deg**
- **AKA 'Big Bend Yucca'**
- **May be solitary or branching**
  - **Stem height: to 12-16 ft**
  - **Stem diameter: to 3 ft**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather (does not need to be watered once established)**
- **Use well drained soil mix**



# Echinocereus coccineus



- Raffle plant
- Origin: USA (Arizona, Texas, New Mexico, Colorado, Utah, Nevada, California) and Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter: to 4 in.
  - Stem height: to 15 in.
- Spination highly variable
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia resinifera

## ‘Moroccan Mound’

- Raffle plant
- Origin: Morocco
- Min temp: to 20 deg F
- Habitat: Atlas Mountains
- Forms dense rounded mat
  - Diameter: to 3 ft
  - Height: to 2 ft
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Dasytirion longissimum



- Raffle plant
- Origin: Mexico
- Min temp: to 14 deg F
- Grows tall flowering stalk
- Eventually forms a shaggy tree w/trunk
  - Diameter: to 6 ft
  - Height: to 9 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather (does not need to be watered once established)
- Well-drained soil

# Grusonia kunzei

- Raffle plant
- Origin: USA (Arizona); Mexico (Baja California, Sonora)
- Min temp: to 14 deg F
- Forms dense mats
  - Stem height: to 18 in
  - Stem diameter: to 4 in
- Propagated by seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Pachypodium saundersii

- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus hamatacanthus



- Door prize
- Origin: Texas, New Mexico, Mexico
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 10 in
  - Height: to 18 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Pereskia portulacifolia

- Door prize
- Origin: Dominican Republic, Haiti
- Min temp: protect from frost
- Attracts butterflies, hummingbirds
- Forms small shrub
  - Width: to 2 ft
  - Height: to 5 ft
- Full / filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use porous, well-drained soil



# Mammillaria grusonii



- Door prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- One of the largest species in genus
- Usually solitary
  - Diameter: to 12 in
  - Height: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Stapelia grandiflora

- Door prize
- Origin: South Africa
- Min temp: protect from frost
- Forms large, hanging clusters
  - Stem height: to 10 in
  - Stem diameter: to 1 in
- Propagated from seed and cuttings
- Filtered sun
- Well-drained soil



# Matucana aureiflora



- Door prize
- Origin: Peru (Camajarca)
- Min temp: protect from frost
- Flowers stay open day and night
- Usually solitary
  - Diameter: to 8 in
  - Height: to 4 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Mammillaria camptotricha cv marnier-lapostollei

- Free plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Forms large, flat clump of stems
  - Stem diameter: to 2 in
  - Clump height: to 4 in
- Full / Filtered sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Euphorbia mamillaris variegata



## Free plant

- Origin: South Africa (Little Karoo and Southern Cape)
- Min temp: to 20 deg F
- Grows quickly
- Forms short shrublet
  - Stem diameter: to 1 in
  - Height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Fouquieria macdougalii

- Free plant
- Origin: Mexico (Sonora)
- Min temp: to 25 deg F
- In same genus as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



# Agave stricta nana

- Free plant
- Origin: Mexico (Puebla)
- Min temp: to 20 deg F
- Grows slowly, stays small
- Forms new offsets at base
  - Rosette diameter: to 10 in
  - Rosette height: to 10 in
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Lobivia draxleriana



- **Free plant**
- **Origin: Bolivia, Argentina**
- **Min temp: to 14 deg F**
- **Found in higher Andes**
- **Forms flattened sphere**
- **Usually solitary, may form clumps**
  - **Height: to 6 in**
  - **Stem diameter: to 6 in**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Neoporteria huascensis

- Free plant
- Origin: Chile (Atacama)
- Min temp: to 14 deg F
- Occurs in coastal areas where little else grows
- Grows buried in ground – almost impossible to spot without flowers
  - Stem diameter: to 4 in
  - Stem height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Anacampseros rufescens



- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms small caudex with age
  - Height: to 6 in
  - Caudex diameter: to 2 in
- Propagated from seeds or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium cardenasianum

- Free plant
- Origin: Bolivia
- Min temp: give protection in colder areas
- Covered with strong twisted spines that often prevent flower from opening fully
- Usually solitary
  - Diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Faucaria tigrina

- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil





# Gymnocalycium neuhuberi



- Free plant
- Origin: Argentina (San Luis)
- Min temp: to 14 deg F
- Endangered in habitat
- Usually solitary, may cluster
  - Diameter: to 6 in
  - Height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Adromischus cristatus

- Free plant
- Origin: South Africa
- Min temp: to 25 deg F
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria hahniana



- Free plant
- Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil

# Aeonium haworthia hybrid

## 'Kiwi'

- Free plant
- Origin: Morocco
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 6 in
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave nickelsiae



- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Chamaecereus sylvestrii

## ( 'Peanut Cactus' )



- Free plant
- Origin: Unknown (has not been found in the wild)
- Min temp: to 14 deg F
- Forms clumps
  - Stem diameter: to ½ in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria dixanthocentron

- Free plant
- Origin: Mexico (Oaxaca, Pueblo)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Stem diameter: to 3 in
  - Height: to 11 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil





# Ferocactus herrerae

## 'Twisted Barrel'



- Free plant
- Origin: Mexico (Sonora, Sinaloa, Durango)
- Min temp: to 14 deg F
- Ribs form deep spirals
- Usually solitary
  - Height: to 5 ft
  - Diameter: to 18 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Glottiphyllum depressum



- Free plant
- Origin: South Africa (Little Karoo, Western Cape)
- Min temp: protect from frost
- Forms clusters close to the ground
  - Cluster diameter: to 12 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Notocactus agnetae



- **Free plant**
- **Origin: Uruguay**
- **Min temp: to 14 deg F**
- **Forms small sphere**
  - **Stem height: to 4 in**
  - **Stem diameter: to 4 in**
- **Propagated from seed**
- **Filtered sun**
- **Well-drained soil**

# Sempervivum species

- **Free plant**
- **Origin: Europe (Apennine, Alps, Carpathian mountains)**
- **Min temp: to 14 deg F**
- **Forms prolific clusters**
  - **Stem diameter: to 8 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Lobivia tiegeliana v dimorphypetalia



- Free plant
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Forms small, flat sphere
  - Stem diameter: to 6 in
  - Stem height: to 4 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gasteraloe 'Green Ice'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus warasii



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: protect from frost in colder areas**
- **In habitat grows in rock cracks on walls**
- **Solitary at first, may cluster in time**
  - **Stem height: to 18 in**
  - **Stem diameter: to 12 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Well-drained soil**



# Mammillaria bombycina



- Free plant
- Origin: Mexico (Jalisco, Aguascalientes)
- Min temp: give protection in colder areas
- Forms clumps
  - Stem diameter: to 2 in
  - Stem height: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus weedinii (Davis Mountains)

## Free plant

- Origin: Texas (Trans-Pecos)
- Min temp: to 14 deg F
- Usually solitary, may form clumps
  - Height: to 8 in
  - Stem diameter: to 2 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Aloe variegata



- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Ferocactus alamosanus

- Free plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria sonorensis



- **Free plant**
- **Origin: Mexico (Sonora, Sinaloa, Chihuahua)**
- **Min temp: to 14 deg F**
- **Grows slowly**
- **Eventually forms large mounds**
  - **Stem height: to 6 in**
  - **Diameter per stem: to 6 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Well-drained soil**

# Adromischus maculatus

- Free plant
- Origin: South Africa (Cape Province)
- Min temp: protect from frost in colder areas
- Forms small clusters or mats
  - Leaf diameter: to 1 in
  - Cluster height: to 3 in
- Develops caudex with age
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Mammillaria sempervivi var tetracantha

- Free plant
- Origin: Mexico (Hidalgo, San Luis Potosi, Nuevo Leon, Guanajuato)
- Min temp: to 14 deg F
- Grows slowly
- Solitary at first, may cluster
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil



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- Miles' to Go
- Bach's Greenhouse Cactus Nursery
- Doug Rowsell







# Tucson Cactus and Succulent Society February 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# SPECIAL RAFFLE

## Large Queen of the Night (*Peniocereus greggii*)

- Weighs 24 lbs.
- Tickets: \$5 each
- First 20 ticket buyers get complimentary bag of potting soil (one bag per person)



# Peniocereus greggii v transmontanus



- Special Raffle Plant
- Origin: Arizona, Mexico (Sonora)
- Min temp: to 14 deg F
- Aromatic flowers bloom at night
- Forms underground tubers that send slender stems above ground
  - Stem height: to 5 ft
  - Stem diameter: to 1 in
- TCSS guide: page 204
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Echinocereus triglochidiatus var mojavensis

- Raffle plant
- Origin: USA (Arizona, Nevada, Utah) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Dasyllirion acrotriche



- **Raffle plant**
- **Origin: Mexico (Coahuila, Chihuahua)**
- **Min temp: to 14 deg**
- **AKA 'Green Sotol'**
- **Usually solitary**
  - **Stem height: to 6 ft**
  - **Stem diameter: to 5 ft**
- **Full sun**
- **Water when dry during warm weather (does not need to be watered once established)**
- **Use well drained soil mix**

# Opuntia polyacantha var erinacea



- Raffle plant
- Origin: USA (Arizona, California, New Mexico, Colorado, Nevada, Utah)
- Min temp: to 14 deg F
- AKA 'Grizzlybear Prickly Pear'
- Forms large clusters
  - Stem diameter: to 5 in.
  - Stem height: to 18 in.
- Spination highly variable
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave stricta

- Raffle plant
- Origin: Mexico (Puebla, Oaxaca)
- Min temp: to 14 deg F
- May turn red in cold, strong sun
- Rosettes eventually form clusters
  - Rosette diameter: to 2 ft
  - Rosette height: to 2 ft
- Full sun
- Propagated from offsets, seed
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Agave americana medio-picta var alba

- Raffle plant
- Origin: Mexico
- Min temp: to 20 deg F
- Cultivar—smaller than other Agave americanas
- May eventually form clump
  - Diameter: to 3 ft
  - Height: to 2 ft
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Echinocereus enneacanthus



- Raffle plant
- Origin: USA (Texas, New Mexico); Mexico (Sonora, Durango, Nuevo Leon, Coahuila)
- Min temp: to 14 deg
- Forms loose clumps
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated via cuttings, seed
- Full sunlight
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Mammillaria mystax



- Door prize
- Origin: Mexico (central)
- Min temp: to 14 deg F
- Flowers rose-purple
- Usually solitary
  - Height: to 6 in
  - Diameter: to 4 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Pachypodium saundersii

- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus wislizeni



- Door prize
- Origin: Texas, New Mexico, Arizona
- Min temp: to 14 deg F
- Native 'Fishhook Barrel'
- Usually solitary, may form clusters
  - Stem diameter: to 18 in
  - Height: to 7 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Pereskia portulacifolia

- Door prize
- Origin: Dominican Republic, Haiti
- Min temp: protect from frost
- Attracts butterflies, hummingbirds
- Forms small shrub
  - Width: to 2 ft
  - Height: to 5 ft
- Full / filtered sun
- Propagated from seed, cuttings
- Water when dry during warm weather
- Use porous, well-drained soil



# Astrophytum capricorne var senilis



- Door prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- In habitat grows among grasses in rock crevices
- Usually solitary
  - Diameter: to 6 in
  - Height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Gasteraloe 'Green Ice'

- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Grusonia invicta



- Free plant
- Origin: Mexico (Central Baja California)
- Min temp: tolerates occasional light frost
- Forms a low, wide mat
  - Height: to 12 in
  - Mat diameter: to 5 ft
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia mamillaris variegata



## Free plant

- Origin: South Africa (Little Karoo and Southern Cape)
- Min temp: to 20 deg F
- Grows quickly
- Forms short shrublet
  - Stem diameter: to 1 in
  - Height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria camptotricha cv marnier-lapostollei

- **Free plant**
- **Origin: Cultivar**
- **Min temp: to 14 deg F**
- **Forms large, flat clump of stems**
  - **Stem diameter: to 2 in**
  - **Clump height: to 4 in**
- **Full / Filtered sun**
- **Propagated from cuttings**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**



# Fouquieria macdougallii

- Free plant
- Origin: Mexico (Sonora)
- Min temp: to 25 deg F
- In same genus as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



# Ferocactus alamosanus

- Free plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave stricta nana

- Free plant
- Origin: Mexico (Puebla)
- Min temp: to 20 deg F
- Grows slowly, stays small
- Forms new offsets at base
  - Rosette diameter: to 10 in
  - Rosette height: to 10 in
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Lobivia draxleriana



- **Free plant**
- **Origin: Bolivia, Argentina**
- **Min temp: to 14 deg F**
- **Found in higher Andes**
- **Forms flattened sphere**
- **Usually solitary, may form clumps**
  - **Height: to 6 in**
  - **Stem diameter: to 6 in**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Neoporteria huascensis

- Free plant
- Origin: Chile (Atacama)
- Min temp: to 14 deg F
- Occurs in coastal areas where little else grows
- Grows buried in ground – almost impossible to spot without flowers
  - Stem diameter: to 4 in
  - Stem height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Anacampseros rufescens



- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms small caudex with age
  - Height: to 6 in
  - Caudex diameter: to 2 in
- Propagated from seeds or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium cardenasianum

- Free plant
- Origin: Bolivia
- Min temp: give protection in colder areas
- Covered with strong twisted spines that often prevent flower from opening fully
- Usually solitary
  - Diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Faucaria tigrina

- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Gymnocalycium neuhuberi



- Free plant
- Origin: Argentina (San Luis)
- Min temp: to 14 deg F
- Endangered in habitat
- Usually solitary, may cluster
  - Diameter: to 6 in
  - Height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Adromischus cristatus

- Free plant
- Origin: South Africa
- Min temp: to 25 deg F
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria hahniana



- Free plant
- Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil



# Aeonium haworthia hybrid

## 'Kiwi'

- Free plant
- Origin: Morocco
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 6 in
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave nickelsiae



- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria dixanthocentron

- Free plant
- Origin: Mexico (Oaxaca, Pueblo)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Stem diameter: to 3 in
  - Height: to 11 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Sempervivum species

- Free plant
- Origin: Europe (Apennine, Alps, Carpathian mountains)
- Min temp: to 14 deg F
- Forms prolific clusters
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia tiegeliana v dimorphypetalia



- Free plant
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Forms small, flat sphere
  - Stem diameter: to 6 in
  - Stem height: to 4 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Notocactus warasii



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: protect from frost in colder areas**
- **In habitat grows in rock cracks on walls**
- **Solitary at first, may cluster in time**
  - **Stem height: to 18 in**
  - **Stem diameter: to 12 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Well-drained soil**

# Mammillaria bombycina



- Free plant
- Origin: Mexico (Jalisco, Aguascalientes)
- Min temp: give protection in colder areas
- Forms clumps
  - Stem diameter: to 2 in
  - Stem height: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus weedinii (Davis Mountains)

## Free plant

- Origin: Texas (Trans-Pecos)
- Min temp: to 14 deg F
- Usually solitary, may form clumps
  - Height: to 8 in
  - Stem diameter: to 2 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Aloe variegata

- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Adromischus maculatus

- Free plant
- Origin: South Africa (Cape Province)
- Min temp: protect from frost in colder areas
- Forms small clusters or mats
  - Leaf diameter: to 1 in
  - Cluster height: to 3 in
- Develops caudex with age
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Mammillaria sempervivi var tetracantha

- Free plant
- Origin: Mexico (Hidalgo, San Luis Potosi, Nuevo Leon, Guanajuato)
- Min temp: to 14 deg F
- Grows slowly
- Solitary at first, may cluster
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil



# Thank You To Our Plant Suppliers This Month:

- Miles' to Go
- Bach's Greenhouse Cactus Nursery
  - Doug Rowsell
  - Robert Ellis





# Tucson Cactus and Succulent Society March 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Peniocereus greggii v transmontanus

- Raffle plant
- Origin: Arizona, Mexico (Sonora)
- Min temp: to 14 deg F
- Forms large underground tubers that send slender stems above ground
  - Stem height: to 5 ft
  - Stem diameter: to 1 in
- TCSS guide: page 204
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Yucca rupicola



- Raffle plant
- Origin: Texas (west-central)
- Min temp: to 14 deg
- AKA 'Twisted-Leaf Yucca'
- Eventually forms clump
  - Stem height: to 2 ft
  - Stem diameter: to 2 ft
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather (does not need to be watered once established)
- Use well drained soil mix

# Gymnocalycium bruchii x denudatum

- Raffle plant
- Origin: Cultivar
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Yucca endlichiana



- **Raffle plant**
- **Origin: Mexico (Chihuahua)**
- **Min temp: 15 deg F**
- **Forms clusters**
  - **Height: to 14 in**
  - **Diameter: to 24 in**
- **Very slow growing**
- **Red-orange flower grows close to ground; opens to reveal white blossom**
- **Full / filtered sunlight**
- **Propagate by seed, offsets**
- **Water when dry during warm weather**

# Agave parryi var truncata 'Huntington'



- Raffle plant
- Origin: Mexico
- Min temp: to 14 deg F
- Clone originally grown at Huntington Botanical Garden
- Rosettes eventually form clusters
  - Rosette diameter: to 2 ft
  - Rosette height: to 2 ft
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Ferocactus macrodiscus

- Raffle plant
- Origin: San Luis Potosi, Guanajuato, Mexico
- Min temp: 25 deg F
- Solitary; slow growing
- Aka: 'Candy Barrel'
- Height: up to 12 inches
- Diameter: up to 12 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Aloe hybrid 'Nobilis'

- Door prize
- Origin: South Africa
- Hardy to 25 deg F
- Width: Clusters to 24 inches
- Height: up to 24 inches
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus rinconensis var freudenbergeri



- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 15 deg F
- Solitary
  - Height: to 4 in
  - Diameter: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Stenocereus eruca

- Door prize
- Origin: Mexico (Baja California)
- Min temp: protect from frost in colder areas
- Flowers pale pink to cream, bloom at night
- 'Creeping Devil'
- Creates mass of prostrate stems
  - Width of stem: up to 4 in
  - Length: to 10 ft
- Propagated by seed, cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Glottiphyllum depressum



- Door prize
- Origin: South Africa (Little Karoo, Western Cape)
- Min temp: protect from frost
- Forms clusters close to the ground
  - Cluster diameter: to 12 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Ferocactus wislizeni



- Door prize
- Origin: Texas, New Mexico, Arizona
- Min temp: to 14 deg F
- Native 'Fishhook Barrel'
- Usually solitary, may form clusters
  - Stem diameter: to 18 in
  - Height: to 7 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe variegata

- **Door prize**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Pachycereus marginatus



- Free plant
- Origin: Central Mexico (San Luis Potosi, Queretaro, Guanajuato, Oaxaca)
- Min temp: give frost protection in colder areas
- Usually solitary, may branch from base
  - Stem diameter: to 8 in
  - Height: to 12 ft
- Full sun
- Propagated from seed, cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Aloe brevipolia

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: to 25 deg F
- Forms small-scale ground cover
- Rosette, eventually forms clump
  - Rosette diameter : to 4 in
  - Clump height: to 12 in
- Propagated from offsets, seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Grusonia invicta



- Free plant
- Origin: Mexico (Central Baja California)
- Min temp: tolerates occasional light frost
- Forms a low, wide mat
  - Height: to 12 in
  - Mat diameter: to 5 ft
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Senecio stapelliiformis

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Underground shoots emerge to form upright stems
  - Height: to 12 in
  - Stem diameter: to ½ in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Parodia haselbergii



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: give some protection in colder areas**
- **Usually solitary**
  - **Diameter: to 6 in**
  - **Height: to 4 in**
- **Filtered sun**
- **Propagated from seed**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Faucaria paucidens

- Free plant
- Origin: South Africa (Eastern Cape)
- Min temp: can tolerate a short period of light frost
- Forms a ground cover
  - Height: to 6 in
  - Rosette diameter: to 4 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Rebutia muscula



- **Free plant**
- **Origin: Bolivia (Narvaez, Tarija)**
- **Min temp: to 14 deg F**
- **Forms large low clumps**
  - **Diameter of stem: to 1 in**
  - **Height: to 2 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia cuspidata

- Free plant
- Origin: Cultivar
- Probably a hybrid of *H. cymbiformis* x *H. retusa*
- Min temp: protect from frost
- Forms a rosette that eventually clusters
  - Height: to 4 in
  - Stem diameter: to 4 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Mammillaria sempervivi



- **Free plant**
- **Origin: Mexico (Hidalgo, San Luis Potosi, Nuevo Leon, Guanajuato)**
- **Min temp: to 14 deg F**
- **Grows slowly**
- **Solitary at first, may cluster**
  - **Stem height: to 6 in**
  - **Stem diameter: to 6 in**
- **Propagated from seed**
- **Full / Filtered sun**
- **Well-drained soil**

# Thank You To Our Plant Suppliers This Month:

- B & B Cactus Farm
  - Miles' to Go
  - Robert Ellis





# Tucson Cactus and Succulent Society April 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**



# RAFFLE PLANTS

**Prices:**

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**Six tickets for \$5**

# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Hesperaloe parviflora

## ‘Brakelights’



- Raffle plant
- Cultivar
- Origin: SW USA (Texas); NE Mexico (Coahuila)
- Min temp: to 14 deg
- Forms arching rosettes
  - Height: to 18 in
  - Diameter: to 22 in
- Propagated from offsets
- Full sun
- Well-drained soil

# Mammillaria petterssonii



- Raffle plant
- Origin: Mexico (Guanajuato, Queretaro, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form cluster in time
  - Stem height: to 10 in
  - Stem diameter: to 9 in
- Propagated by seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid 'Nobilis'

- Raffle plant
- Origin: South Africa
- Hardy to 25 deg F
- Width: Clusters to 24 inches
- Height: up to 24 inches
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Yucca faxoniana



- Raffle plant
- Origin: West Texas
- Min temp: To 14 deg G
- Aka 'Spanish Dagger'
- Forms tree-like trunk with multiple heads
  - Height: To 12 ft
  - Diameter: to 6 ft
- Propagated from seed, offsets
- Full sun
- Well-drained soil

# Ferocactus glaucescens

- Raffle plant
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Echinocereus brandegeei



- Door Prize
- Origin: Mexico (Baja California)
- Min temp: give protection in colder areas
- Blooms later than most Echinocereus – late July to September
- Forms sprawling clusters
  - Stem diameter: to 3 in
  - Stem height: to 18 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echeveria harmsii

- Door prize
- Origin: Mexico
- Min temp: protect from frost
- Forms small shrub
  - Stem width: to 3 in
  - Stem height: to 12 in
- Propagated from seeds, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Denmoza rhodacantha



- Door prize
- Origin: Argentina (Mendoza—Salta)
- Min temp: to 14 deg F
- Grows slowly, eventually forms columnar cactus
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia leucodendron



- Door prize
- Origin: Madagascar
- Min temp: to 25 deg F
- Forms spineless shrub
  - Height: to 5 ft
  - Diameter: to 5 ft
- Propagated from seed, offshoots
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus pottsii

- Door prize
- Origin: Mexico (Chihuahua, Sonora, Sinaloa)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 2 ft
  - Diameter: to 18 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Aloe hybrid 'Moon'

- Door prize
- Origin: cultivar
- Min temp: protect from frost
- Creates cluster of rosettes
  - Width of stem: up to 4 in
  - Height of stem: to 6 in
- Propagated by offshoots
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

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**Must stay until end of meeting**

**Please be courteous**

# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pachypodium lamerei



- Free plant
- Origin: Madagascar
- Min temp: protect from frost
- Forms semi-deciduous stemmed tree with a stout trunk
  - Trunk diameter: to 1 ft
  - Height: to 15 ft
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave victoria reginae hybrid



- Free plant
- Origin: cultivar
- Min temp: to 14 deg F
- Usually forms single rosette
  - Stem diameter: to 12 in
  - Height: to 15 in
- Full / Filtered sun
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Thelocactus heterochromus

- **Free plant**
- **Origin: Northeastern Mexico (Durango, Coahuila)**
- **Min temp: to 14 deg F**
- **Rare: grows slowly**
- **Usually solitary**
  - **Height: to 3 in**
  - **Diameter per stem: to 8 in**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**



# Agave bovicornuta x colorata

- Free plant
- Origin: Cultivar
- Min temp: to 20 deg F
- Cultivar has wide variations
- Usually solitary
  - Diameter : to 24 in
  - Height: to 18 in
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Pachypodium bispinosum



- Free plant
- Origin: S Africa (Eastern Cape)
- Min temp: tolerates frost
- Deciduous caudiciform shrub
  - Height: to 5 ft.
  - Base diameter: to 8 in
- Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Chamaecereus hybrid ( 'Peanut Cactus' )



- Free plant
- Origin: Unknown (has not been found in the wild)
- Min temp: to 14 deg F
- Forms hanging clumps
  - Stem diameter: to 1 in
  - Stem length: to 6 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thank You To Our Plant Suppliers This Month:

- Bach's Greenhouse Cactus Nursery
  - Plants for the Southwest
    - Miles' to Go
- Arid Adaptations Nursery





# Tucson Cactus and Succulent Society June 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Trichocereus hybrid (red flower)

- Raffle plant
- Origin: South America
- Min temp: 32 deg F
- Psychoactive (mescaline)
- Forms branches
  - Stem height: to 16 in
  - Stem diameter: to 3 in
- Full/filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Yucca baccata

- Raffle plant
- Origin: SW USA (Arizona, California, Utah, Texas); NW Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg
- May be solitary or clumped
  - Stem height: to 3 ft
  - Stem diameter: to 2 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Use well drained soil mix



# Echinocactus horizontalonius

- Raffle plant
- Origin: USA (Arizona, New Mexico, Texas) ; Mexico (Nuevo Leon, San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 8 in
  - Diameter: to 8 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus emoryi ssp covillei



- Raffle plant
- Origin: Mexico (Sonora); Arizona (Yuma, Maricopa Co)
- Min temp: to 14 deg F
- Usually solitary, forms heavy spines
  - Diameter: to 18 in
  - Height: to 2 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Hesperaloe hybrid 'Buttercup'



- Raffle plant
- Cultivar
- Origin: SW USA (Texas); NE Mexico (Coahuila)
- Min temp: to 14 deg
- Forms arching rosettes
  - Height: to 18 in
  - Diameter: to 22 in
- Propagated from offsets
- Full sun
- Well-drained soil



# Adenium obesum

- Raffle plant
- Origin: Africa, Arabian Peninsula
- Min temp: protect from frost
- Forms caudiciform trunk
  - Plant height: to 6 ft
  - Plant diameter: to 4 ft
- Plant in shallow, wide container to encourage fat caudex
- Propagated from cuttings
- Full / filtered sun
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Echinopsis x 'First Light'

- Door Prize
- Origin: Cultivar by Mark Dimmit
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 24 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia limifolia striata hybrid



- Door prize
- Origin: East Africa
- Protect from frost
- Forms rosettes that cluster
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from offsets, seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Ferocactus histrix

- Door prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Pachypodium saundersii



- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria geminispina

- Door prize
- Origin: Mexico (Hidalgo, Queretaro, San Luis Potosi)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia species



- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Grows as rosettes that cluster
  - Stem diameter: to 2 in
  - Height: to 8 in
- Propagated from offsets, seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Senecio stapelliiformis

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Underground shoots emerge to form upright stems
  - Height: to 12 in
  - Stem diameter: to ½ in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Chamaecereus hybrid ( 'Peanut Cactus' )



- Free plant
- Origin: Unknown (has not been found in the wild)
- Min temp: to 14 deg F
- Forms hanging clumps
  - Stem diameter: to 1 in
  - Stem length: to 6 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave nickelsiae

- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echeveria runyonii var lucita

- Free plant
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 4 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Trichocereus candicans

## ‘Argentine Giant’



- **Free plant**
- Origin: Argentina
- Min temp: to 14 deg F
- Blooms profusely
- Flowers are fragrant
- Forms clumps:
  - Stem height: 18 to 24 in
  - Stem diameter: to 4 in
- Propagated from seeds, cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave potatorum (dwarf)

- Free plant
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 5 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Echinopsis obrepanda



- Free plant
- Origin: Bolivia
- Min temp: to 14 deg F
- Natural hybrid
- Readily forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated by cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Coryphantha greenwoodii

- **Free plant**
- **Origin: Mexico (Piedras Blancas, Veracruz)**
- **Min temp: to 14 deg F**
- **Usually solitary, may cluster in time**
  - **Stem height: to 5 in**
  - **Stem diameter: to 5 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Thank You To Our Plant Suppliers This Month:

- Bach's Greenhouse Cactus Nursery
  - Miles' to Go
- B & B Cactus Farm
  - Doug Rowsell





# Tucson Cactus and Succulent Society July 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Cereus schottii monstrose

## 'Obesa'



- Raffle
- Origin: Mexico (Sonora, Baja California)
- Min temp: to 14 deg F
- Grows as tall, irregularly shaped pole
  - Diameter: to 6 in
  - Height: to 10 ft
- Naturally occurring hybrid that rarely flowers
- Propagated from cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave salmiana hybrid 'Mr. Ripple'

- Raffle
- Origin: San Luis Potosi, Mexico
- Min Temp: Hardy to 10 deg F
- Mostly solitary
  - Height: to 5 ft
  - Diameter: to 8 ft
- Reproduced via tissue culture
- *A. salmiana* x *A. protoamericana* ?
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil





# Ferocactus hematacanthus

## Raffle

- Origin: USA (New Mexico, Texas); Mexico (Chihuahua)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 8 in
  - Height: to 16 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave colorata 'Blue'



- Raffle
- Origin: Mexico (Sonora)
- Min temp: to 18 deg F
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Astrophytum ornatum

## Raffle

- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 12 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pereskia grandifolia v violaceae



- Raffle
- Origin: Brazil
- Min temp: protect from frost
- Attracts butterflies, hummingbirds
- Primitive 'ancestral cactus'
- Forms small shrub
  - Width: to 2 ft
  - Height: to 5 ft
- Full / filtered sun
- Propagated from seed or cuttings
- Water when dry during warm weather
- Use porous, well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Encyclia michuacana

- Door Prize
- Origin: Mexico, Guatemala, Honduras
- Terrestrial orchid
- Min temp: protect from frost
  - Stem diameter: to ½ in
  - Stem height: to 14 in
- Propagated from bulbs/underground roots
- Filtered sun
- Has water needs similar to a succulent
- Well-drained soil



# Ferocactus histrix



- Door prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe zanzibarica

- Door Prize
- Origin: Zanzibar (island off coast of Tanzania in eastern Africa)
- Min Temp: Protect from frost
- Forms large mats (photo shows 40-year-old colony at Tanque Verde Greenhouses)
- Flowers attract hummingbirds
- Filtered sunlight
- Water when dry during warm weather
- Well-drained soil





# Thelocactus rinconensis var freudenbergeri



- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 15 deg F
- Solitary
  - Height: to 4 in
  - Diameter: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia coarctata

- Door prize
- Origin: South Africa (Eastern Cape Province)
- Protect from frost
- Forms large clumps
  - Stem diameter: to 2 in
  - Stem height: to 9 in
- Propagated from offsets, seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria standleyi



- Door prize
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

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# Astrophytum capricorne



- Free plant
- Origin: Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Spines serve as camouflage in grass
- Usually solitary
  - Stem diameter: to 6 in
  - Stem height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Anacampseros rufescens

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms small caudex with age
  - Height: to 6 in
  - Caudex diameter: to 2 in
- Propagated from seeds or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Adromischus maculatus

- Free plant
- Origin: South Africa (Cape Province)
- Min temp: protect from frost in colder areas
- Forms small clusters or mats
  - Leaf diameter: to 1 in
  - Cluster height: to 3 in
- Develops caudex with age
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil





# Ferocactus wislizeni f flavispina



- Free plant
- Origin: Arizona (Cultivar by Chris Monrad)
- Min temp: to 14 deg F
- Yellow-spine form of Fishhook Barrel (common barrel in Tucson)
- Usually solitary
  - Diameter: to 18 in
  - Height: to 3 ft
- Propagated from seed
- Full
- Water when dry during warm weather
- Well-drained soil

# Agave angustifolia

- **Free plant**
- **Origin: Mexico, Central America**
- **Min temp: hardy to 20 deg F**
- **Forms dense rosette:**
  - **Stem height: to 4 ft**
  - **Width: to 4 ft**
- **Full / filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use porous, well-drained soil**



# Ferocactus rectispinus



- **Free plant**
- **Origin: Mexico (Baja California)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 24 in**
  - **Height: to 3 ft**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**

# Crassula muscosa lycopodiodes

- Free plant
- Origin: South Africa, Namibia, Lesotho
- Min temp: Give protection in colder areas
- Aka 'Watch Chain Plant'
- Forms dense cluster
  - Stem height: to 6 in
  - Stem diameter: to 1/4 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria sempervivi



- **Free plant**
- **Origin: Mexico (Hidalgo, San Luis Potosi, Guanajuato, Queretaro)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 4 in**
  - **Stem height: to 5 in**
- **Propagated from seed**
- **Filtered/ Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave potatorum (dwarf)

- Free plant
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 5 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Echinopsis obrepanda



- Free plant
- Origin: Bolivia
- Min temp: to 14 deg F
- Natural hybrid
- Readily forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated by cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thank You To Our Plant Suppliers This Month:

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  - Miles' to Go
- Grigsby Cactus Gardens







# Tucson Cactus and Succulent Society August 2018

RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS

Presented by Donna and Robert Ellis

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Agave parryi



- Raffle plant
- Origin: Arizona, New Mexico, Mexico
- Min temp: to 14 deg F
- Forms clusters
  - Rosette diameter: to 24 in
  - Rosette height: to 18 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Oreocereus celsianus

- Raffle plant
- Origin: Argentina, Bolivia, Peru
- Min temp: 14 deg F
- “Old Man of the Andes”
- Usually solitary, may cluster at base
  - Width of stem: up to 8 in
  - Height: to 10 ft
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave parrasana



- **Raffle Plant**
- **Origin: Mexico (Coahuila)**
- **Grows in Parras Mountains from 4500-8000 ft elevation**
- **Min temp: to 14 deg F**
- **Aka 'Cabbage Head Agave'**
- **Forms compact rosette with few offsets**
  - **Diameter: to 2 ft**
  - **Height: to 2 ft**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Micranthocereus estevesii

## Raffle Plant

- Origin: Brazil
- Min temp: 14 deg F
- May form clusters
  - Diameter: to 3 in
  - Height: to 6 ft
- Mature plants form cephalum on side
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave geminiflora

- **Raffle Plant**
- Origin: Mexico (Jalisco, Nayarit)
- Min temp: 25-30 deg F
- Habitat: Open oak woodland
- Forms single dense round rosette
  - Diameter: to 3 ft
  - Height: to 3 ft
- Dies after flowering but may sprout new shoots at base
- Propagated by seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Trichocereus sp (Flower Color?)

- Raffle plant
- Origin: South America
- Min temp: 14 deg F
- Psychoactive (mescaline)
- Forms branches
  - Stem height: to 16 in
  - Stem diameter: to 3 in
- Full/filtered sun
- Water when dry during warm weather
- Use well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus histrix



- Door Prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia hybrid - variegated

- Door Prize
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Filtered sun
- Water when dry in warm weather
- Well-drained soil



# Mammillaria grusonii



- Door Prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- One of the largest species in genus
- Usually solitary
  - Diameter: to 12 in
  - Height: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia hybrid

- Door Prize
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Filtered sun
- Water when dry in warm weather
- Well-drained soil



# Echinocereus brandegeei



- Door Prize
- Origin: Mexico (Baja California)
- Min temp: give protection in colder areas
- Blooms later than most Echinocereus – late July to September
- Forms sprawling clusters
  - Stem diameter: to 3 in
  - Stem height: to 18 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave potatorum (dwarf)

- Door prize
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 5 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# FREE PLANTS

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**Please be courteous**



# Mammillaria bombycina



- Free plant
- Origin: Mexico (Jalisco, Aguascalientes)
- Min temp: give protection in colder areas
- Forms clumps
  - Stem diameter: to 2 in
  - Stem height: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave angustifolia

- **Free plant**
- **Origin: Mexico, Central America**
- **Min temp: hardy to 20 deg F**
- **Forms dense rosette:**
  - **Stem height: to 4 ft**
  - **Width: to 4 ft**
- **Full / filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use porous, well-drained soil**



# Mammillaria hahniana



- Free plant
- Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil

# Ferocactus glaucescens 'inermis'



- Free plant
- Origin: Cultivar
- Min temp: give protection in colder areas
- Spines tend to fall off as plant ages
- Initially solitary, may form large mound of multiple heads
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave potatorum (dwarf)

- Free plant
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 5 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Mammillaria plumosa



## Free plant

- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echinopsis subdenudata

- Free plant
- Origin: Bolivia, Paraguay
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus uebelmanniana (Yellow-flowered)

- Free plant
- Origin: Brazil (Rio Grande Do Sul)
- Min temp: to 25 deg F
- Nearly extinct in native habitat
- Usually solitary, may form small clumps
  - Height: to 6 in
  - Diameter: to 6 in
- Propagated from seeds or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Echinocereus klapperi



- Free plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost
- In habitat grows in oak woodland
- Clusters
  - Stem diameter: to 1 in
  - Height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Lobivia wrightiana



- **Free plant**
- **Origin: Peru (Huancavelica)**
- **Min temp: to 14 deg F**
- **Usually solitary, may pup with age**
  - **Stem diameter: to 4 in**
  - **Stem height: to 1 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Thank You To Our Plant Suppliers This Month:

- Miles' to Go
- B & B Cactus Farm





# Tucson Cactus and Succulent Society September 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

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# RAFFLE PLANTS

**Prices:**

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**Six tickets for \$5**

# SPECIAL RAFFLE

## Queen of the Night

*Peniocereus greggii*

Rescued at Drexel/Houghton

- Tuber : 11+ lbs
- White tickets
- Price \$5 each / 5 for \$20



# Yucca schottii

- Raffle plant
- Origin: USA (Arizona, New Mexico), Mexico (Sonora, Coahuila)
- Min temp: to 14 deg F
- Forms one or two branches
  - Branch diameter: to 6 ft
  - Branch height: to 12 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus emoryi var rectispinus



- Raffle plant
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 24 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Agave nickelsiae

- Raffle plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Head height: to 6 in
  - Head diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Beaucarnea stricta

- Raffle plant
- Origin: Mexico (Guerrero, Puebla, Oaxaca)
- Min temp: some protection in colder areas
- Forms caudex with tortoise-shell texture
  - Stem width: to 24 in
  - Height: to 30 ft
- Propagated by seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus triglochidiatus



- Raffle plant
- Origin: Mexico, USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas)
- Min temp: to 14 deg F
- Forms cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus histrix



- Door Prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia royleana

- Door Prize
- Origin: Asia (Pakistan, India, Bhutan, Myanmar, Nepal, China)
- Min temp: give cover from frost in colder areas
- Habitat: Dry, hot rocky slopes of outer range of western Himalaya
- Leaves are deciduous
- Forms stem with branches
  - Stem diameter: to 3 in
  - Stem height: to 10 ft
- Propagated by seed, cuttings
- Full, filtered sun
- Water when dry in warm weather
- Well-drained soil



# Astrophytum coahuilense



- Door Prize
- Origin: Mexico (narrow distribution in southwest Coahuila, Durante)
- Min temp: to 14 deg F
- Has pinkish fruit
- Grows slowly; usually solitary
  - Diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Aloe hybrid

- Door Prize
- Origin: South Africa
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Filtered sun
- Water when dry in warm weather
- Well-drained soil



# Mammillaria sonorensis



- Door prize
- Origin: Mexico (Sonora, Sinaloa, Chihuahua)
- Min temp: to 14 deg F
- Grows slowly
- Eventually forms large mounds
  - Stem height: to 6 in
  - Diameter per stem: to 6 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil

# Aloe jucunda

- Door prize
- Origin: Africa (Somalia)
- Min temp: to 25 deg F
- Forms dense clusters
  - Stem height: to 12 in
  - Stem diameter: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# FREE PLANTS

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# Agave nickelsiae

- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Formerly 'ferdinand-regis'
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Euphorbia ferox

- **Free plant**
- **Origin: South Africa (Great Karoo)**
- **Tolerates light frosts**
  - **Width: Clusters to 18 inches**
  - **Height: up to 12 inches**
- **Propagated from offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Echinopsis chamaecereus hybrid (‘Peanut Cactus’)



- Free plant
- Origin: Argentina? (Has not been found in the wild since 1900)
- Min temp: to 14 deg F
- Forms hanging clumps
  - Stem diameter: to 1 in
  - Stem length: to 6 in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria melanocentra

- Free plant
- Origin: Mexico (Coahuila, Durango, Tamaulipas, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 4 inches
  - Width: up to 6 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Astrophytum myriostigma



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria senilis

- Free plant
- Origin: Mexico (Chihuahua, Jalisco, Sinaloa)
- Min temp: to 14 deg F
- Habitat: pine forests at high altitudes
- Forms low spreading clusters
  - Stem height: to 6 in
  - Stem diameter: to 4 in
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Senecio stapeliiformis

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Underground shoots emerge to form upright stems
  - Height: to 12 in
  - Stem diameter: to ½ in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Ferocactus wislizeni



- Free plant
- Origin: USA (Arizona, New Mexico, Texas); Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Aka 'Fishhook Barrel'
- Usually solitary
  - Stem diameter: to 24 in
  - Stem height: to 6 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Soehrensia korethroides

(*Echinopsis formosa* ssp *korethroides*)

- Free plant
- Origin: Argentina (Los Andes)
- Min temp: to 10 deg F
- Tolerates ice, snow, hail and rain
- Solitary at first, forms colonies with age
- Matures into barrel with dense spines
  - Stem height: to 2 ft
  - Stem width: to 1 ft
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather,
- Use porous, well-drained soil



# Mammillaria candida

- Free plant
- Origin: Mexico (Coahuila, Guanajuato, Nuevo Leon, San Luis Potosi, Tamaulipas)
- Min temp: to 14 deg F
- Aka 'Snowball Cactus'
- Forms small clusters
  - Stem diameter: to 2 in
  - Stem height: to 3 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia purpureominata



- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- Forms upright/sprawling stems
  - Stem diameter: to 5 in
  - Stem height: to 4 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil

# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia oxyalabastra

- Free plant
- Origin: Bolivia, Peru
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



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  - Dave Palzkill





# Tucson Cactus and Succulent Society October 2018

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria geminispina



- Raffle plant
- Origin: Mexico (Hidalgo, Queretaro, San Luis Potosi)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia tirucalli 'Firestick'

- Raffle plant
- Origin: South Africa, India
- Min temp: to 25 deg F
- Forms shrub
  - Diameter: to 6 ft
  - Height: to 6 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Trichocereus terscheckii



- Raffle plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Cissus subaphylla

- Raffle plant
- Origin: Yemen (Socotra)
- Min temp: protect from frost
- Forms low shrubby mat
  - Stem length: to 3 ft
  - Stem width: to ½ in
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria grahamii

## 'Arizona Pincushion'



- Raffle plant
- Origin: Arizona
- Min temp: to 14 deg F
- Forms clusters
  - Head height: to 8 in
  - Head diameter: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pachypodium meridionale

- Raffle plant
- Origin: Madagascar
- Min temp: protect from frost
- Becomes a branched tree in native habitat
  - Tree height: to 10 ft
  - Trunk width: to 8 in
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Denmoza rhodacantha



- Door prize
- Origin: Argentina (Mendoza—Salta)
- Min temp: to 14 deg F
- Grows slowly, eventually forms columnar cactus
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Faucaria tigrina

- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms low spreading clusters
  - Height: to 6 in
  - Diameter: to 8 in
- Water sparsely to avoid breaking epidermis
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Thelocactus rinconensis var freudenbergeri



- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 15 deg F
- Solitary
  - Height: to 4 in
  - Diameter: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave colorata

- Door prize
- Origin: Mexico (Sonora)
- Min temp: to 18 deg F
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 2 ft
- Propagated from seed and cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria grusonii



- Door prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- One of the largest species in genus
- Usually solitary
  - Diameter: to 12 in
  - Height: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave potatorum (dwarf)

- Door prize
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 8 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Adenium species

- Free plant
- Origin: Africa, Arabian Peninsula
- Min temp: protect from frost
- Forms caudiciform trunk
  - Plant height: to 6 ft
  - Plant diameter: to 4 ft
- Plant in shallow, wide container to encourage fat caudex
- Propagated from seed and cuttings
- Full / filtered sun
- Well-drained soil



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Lithops (assorted species)

## Free plant

- Origin: South Africa
- Min temp: protect from frost
- Flower - white or yellow
- Forms small clusters
  - Stem diameter: to 2 in
  - Height: to 1 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Austrocylindropuntia subulata



- **Free plant**
- **Origin: Peru (Andes)**
- **Min temp: to 14 deg F**
- **Forms tall branching shrub**
  - **Stem diameter: to 1 in**
  - **Stem height: to 6 ft**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Dorstenia species

- **Free plant**
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Stenocactus albatrus



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 6 inches
  - Width: up to 4 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Pleiospilos nelli

- Free plant
- Origin: South Africa (Little Karoo, Great Karoo)
- Min temp: protect from frost
- Forms small clusters
  - Stem diameter: to 3 in
  - Clump height: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Copiapoa barquitenensis



- Free plant
- Origin: Chile (Antofagasta)
- Min temp: protect from frost
- Usually solitary
  - Width: to 2 in
  - Height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia flanaganii cristata

- **Free plant**
- **Origin: South Africa (Eastern Cape)**
- **Cristate form is a cultivar**
- **Min temp: protect from frost**
- **Forms a mound**
  - **Mound height: to 6 in**
  - **Mound diameter: to 12 in**
- **Propagated from offsets**
- **Filtered sun**
- **Well-drained soil**



# Lobivia famatinensis



- Free plant
- Origin: Argentina (Catamarca, Sierras de Famatina, La Rioja)
- Min temp: to 14 deg F
- Usually solitary or slow clumping
  - Stem diameter: to 1 in
  - Stem height: to 1 in
- Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Albuca namaquensis

- Free plant
- Origin: South Africa (Eastern Cape); Namibia
- Min temp: protect from frost
- Forms clusters of bulbs
  - Height: to 6 in
  - Bulb width: to 1 in
- Filtered sun
- Propagated from offsets
- Water when dry during warm weather,
- Use porous, well-drained soil



# Mammillaria vetula gracilis



- **Free plant**
- **Origin: Mexico (Hidalgo, Queretaro)**
- **Min temp: protect from frost**
- **Forms low spreading clusters**
  - **Stem height: to 1 in**
  - **Stem diameter: to 3/4 in**
- **Propagated from cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Stenocactus vaupelianus



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 6 inches
  - Width: up to 4 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus wislizeni



- Free plant
- Origin: USA (Arizona, New Mexico, Texas); Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Aka 'Fishhook Barrel'
- Usually solitary
  - Stem diameter: to 24 in
  - Stem height: to 6 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



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- TCSS Cactus Rescue Crew





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**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

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# RAFFLE PLANTS

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**Six tickets for \$5**

# Yucca baccata

- Raffle plant
- Origin: SW USA (Arizona, California, Utah, Texas); NW Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg
- May be solitary or clumped
  - Stem height: to 3 ft
  - Stem diameter: to 2 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Use well drained soil mix



# Mammillaria petterssonii



- Raffle plant
- Origin: Mexico (Guanajuato, Queretaro, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form cluster in time
  - Stem height: to 10 in
  - Stem diameter: to 9 in
- Propagated by seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Cyphostemma juttae

- **Raffle plant**
- **Origin: Namibia, South Africa**
- **Min temp: can tolerate light frost**
- **Slow growing**
- **Deciduous in winter**
- **Forms caudiciform trunk**
  - **Height: to 6 ft**
  - **Diameter: to 3 ft**
- **Propagated from seed, cuttings**
- **Full / Filtered sun**
- **Use well-drained soil**



# Trichocereus terscheckii



- Raffle plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Eulophia petersii

- Raffle plant
- Origin: Africa (Namibia to Arabian Peninsula)
- Min temp: protect from frost
- Forms large pseudobulbs
- Desert-adapted orchid
  - Height: to 18 in
  - Diameter per bulb: to 3 in
- Propagated from bulbs, seed
- Filtered sun
- Water when dry in warm weather
- Use well-drained soil mix





# Stetsonia coryne



- Raffle plant
- Origin: Argentina, Bolivia
- Min temp: to 14 deg F
- Forms large tree-like columnar cactus with many branches
  - Height: to 15 ft
  - Diameter: to 10 ft
- Aka 'Toothpick Cactus'
- Propagated by seed, cuttings
  - Keep cuttings very dry to root
- Full sun
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Mammillaria crassimammillis



- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 14 deg F
- Usually solitary, flat
  - Diameter: to 12 in
  - Height: to 8 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia tirucalli 'Firestick'

- Door prize
- Origin: South Africa, India
- Min temp: to 25 deg F
- Forms shrub
  - Diameter: to 6 ft
  - Height: to 6 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria grahamii

## 'Arizona Pincushion'



- Door Prize
- Origin: Arizona
- Min temp: to 14 deg F
- Forms clusters
  - Head height: to 8 in
  - Head diameter: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia milli v splendens

- Door prize
- Origin: Madagascar
- Min temp: protect from frost
- May have red, pink, or white flowers
- Forms climbing shrub
  - Height: to 4 ft
  - Diameter: to 3 ft
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Pachycereus pringlei



- Door prize
- Origin: Mexico (Baja California, Sonora)
- Min temp: protect from frost
- Aka 'Cardon'
- Forms a columnar cactus w/arms
  - Diameter: to 3 ft
  - Height: to 30 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave potatorum (dwarf)

- Door prize
- Origin: Mexico
- Min temp: protect from frost
- Forms clusters
  - Stem height: to 6 in
  - Stem diameter: to 8 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil





# FREE PLANTS

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**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Adenium species

- Free plant
- Origin: Africa, Arabian Peninsula
- Min temp: protect from frost
- Forms caudiciform trunk
  - Plant height: to 6 ft
  - Plant diameter: to 4 ft
- Plant in shallow, wide container to encourage fat caudex
- Propagated from seed and cuttings
- Full / filtered sun
- Well-drained soil



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Lithops (assorted species)

## Free plant

- Origin: South Africa
- Min temp: protect from frost
- Flower - white or yellow
- Forms small clusters
  - Stem diameter: to 2 in
  - Height: to 1 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Austrocylindropuntia subulata



- **Free plant**
- **Origin: Peru (Andes)**
- **Min temp: to 14 deg F**
- **Forms tall branching shrub**
  - **Stem diameter: to 1 in**
  - **Stem height: to 6 ft**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Dorstenia species

- **Free plant**
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Stenocactus albatrus



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 6 inches
  - Width: up to 4 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pleiospilos nelli

- Free plant
- Origin: South Africa (Little Karoo, Great Karoo)
- Min temp: protect from frost
- Forms small clusters
  - Stem diameter: to 3 in
  - Clump height: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Copiapoa barquitenensis



- Free plant
- Origin: Chile (Antofagasta)
- Min temp: protect from frost
- Usually solitary
  - Width: to 2 in
  - Height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia flanaganii cristata

- **Free plant**
- **Origin: South Africa (Eastern Cape)**
- **Cristate form is a cultivar**
- **Min temp: protect from frost**
- **Forms a mound**
  - **Mound height: to 6 in**
  - **Mound diameter: to 12 in**
- **Propagated from offsets**
- **Filtered sun**
- **Well-drained soil**



# Lobivia famatinensis



- Free plant
- Origin: Argentina (Catamarca, Sierras de Famatina, La Rioja)
- Min temp: to 14 deg F
- Usually solitary or slow clumping
  - Stem diameter: to 1 in
  - Stem height: to 1 in
- Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Albuca namaquensis

- Free plant
- Origin: South Africa (Eastern Cape); Namibia
- Min temp: protect from frost
- Forms clusters of bulbs
  - Height: to 6 in
  - Bulb width: to 1 in
- Filtered sun
- Propagated from offsets
- Water when dry during warm weather,
- Use porous, well-drained soil



# Mammillaria vetula gracilis



- **Free plant**
- **Origin: Mexico (Hidalgo, Queretaro)**
- **Min temp: protect from frost**
- **Forms low spreading clusters**
  - **Stem height: to 1 in**
  - **Stem diameter: to 3/4 in**
- **Propagated from cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Stenocactus vaupelii



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Height: up to 6 inches
  - Width: up to 4 inches
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus wislizeni



- Free plant
- Origin: USA (Arizona, New Mexico, Texas); Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Aka 'Fishhook Barrel'
- Usually solitary
  - Stem diameter: to 24 in
  - Stem height: to 6 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

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# Ferocactus pilosus



- **Raffle plant**
- **Origin: Mexico (Nuevo Leon, San Luis Potosi, Coahuila, Zacatecas)**
- **Min temp: to 14 deg F**
- **Has wispy and hairy white spines**
- **May form clusters**
  - **Stem diameter: to 15 in**
  - **Height: to 6 ft**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Pedilanthus macrocarpus

- Raffle plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost
- Has very tiny leaves
- Forms low bush
  - Plant height: to 3 ft
  - Plant diameter: to 3 ft
- Grows slowly
- Propagated from offsets, seed
- Full / filtered sun
- Well-drained soil



# Ferocactus macrodiscus



- Raffle plant
- Origin: Mexico (San Luis Potosi, Guanajuato, Oaxaca)
- Min temp: protect from frost in colder areas
- Grows very slowly and low
- Usually solitary
  - Diameter: to 12 in
  - Height: to 5 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave chazaroi

- **Raffle plant**
- **Origin: Mexico (Jalisco)**
- **Min temp: protect from frost**
- **Recently described (2007)**
- **Forms large open rosette**
  - **Height: to 5 ft**
  - **Diameter: to 5 ft**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well drained soil mix**



# Echeveria hybrid 'Raindrops'



- Raffle plant
- Origin: Mexico (cultivar)
- Min temp: give protection in colder areas
- Smallest of bumpy leaf cultivars
- Usually solitary
  - Height: to 6
  - Diameter: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus alamosanus

- Raffle plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 10 in
  - Diameter: to 12 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Gasteria glomerata hybrid

- Door prize
- Origin: South Africa
- Min temp: give some protection in colder areas
- Forms small cluster
  - Stem height: to 5 in
  - Stem diameter: to 4 in
- Propagated from cuttings, seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus emoryi ssp covillei



- Door prize
- Origin: Mexico (Sonora); Arizona (Yuma, Maricopa)
- Min temp: to 14 deg F
- TCSS field guide pp 128-129
- Usually solitary, forms heavy spines
  - Diameter: to 18 in
  - Height: to 2 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia species

- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia cooperi var dielsiana



- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Astrophytum ornatum

## Door Prize

- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 12 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria pachycylindrica



- Door prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- One of largest species in genus
- Usually solitary
  - Diameter: to 12
  - Height: to 8 in
- Full sun
- Propagated from seed, cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil

# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**



# Ferocactus santa-maria

- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 1 ft
  - Height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Haworthia cymbiformis var incurvula



## Free plant

- Origin: Africa (Eastern Cape)
- Min temp: protect from frost
- Forms small dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Astrophytum asterias

- Free plant
- Origin: Texas (Lower Rio Grande Valley); Mexico (Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Geophytic
- Usually solitary
  - Stem diameter: to 6 in
  - Height: to 3 in
- Propagated from seed
- Filtered sun
- Well-drained soil



# Haworthia venosa var tessellata



## Free plant

- Origin: Africa (Namibia)
- Min temp: protect from frost
- Forms small dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria longimamma

- **Free plant**
- **Origin: Mexico (Hidalgo)**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Height: to 2 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Well-drained soil**



# Stenocereus thurberi

## 'Organ Pipe Cactus'



- **Free plant**
- **Origin: Arizona, Mexico (Sonora, Baja California)**
- **Min temp: protect from frost in colder areas**
- **Forms multiple stems from base**
  - **Stem diameter: to 6 in**
  - **Stem height: to 16 ft**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Agave multiflifera



- Free plant
- Origin: Mexico (Chihuahua, Durango, Sinaloa)
- Min temp: to 14 deg F
- Grows slowly
- Forms dense solitary rosette
  - Diameter: to 4 ft
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Well-drained soil

# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Euphorbia milii

- Free plant
- Origin: Madagascar
- Min temp: protect from frost
- Forms small woody shrub
  - Height: to 3 ft
  - Diameter: to 2 ft
- Prolific bloomer
- Propagated from seed, tip cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Notocactus haselbergii



- Free plant
- Origin: Brazil (Rio Grande do Sul)
- Min temp: give some protection in colder areas
- Usually solitary
  - Diameter: to 6 in
  - Height: to 4 in
- Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Starr Nursery
- Arid Lands Greenhouses
  - B & B Cactus Farm
  - Miles' To Go





# Tucson Cactus and Succulent Society February 2017

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Ferocactus hamatacanthus



- Raffle plant
- Origin: Texas, New Mexico, Mexico
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave wocomahi

- **Raffle plant**
- Origin: Mexico (Sonora, Chihuahua), New Mexico
- Min temp: to 14 deg
- Solitary
  - Height: to 20 in
  - Diameter: to 20 in
- Grows slowly
- Propagated from seed
- Full sun
- Well-drained soil



# Parodia magnifica



- Raffle plant
- Origin: Brazil (Rio Grande do Sul)
- Min temp: to 14 deg F
- Yellow flowers
- May form clusters
  - Diameter: to 6 in
  - Height: to 18
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloe melanacantha

- **Raffle plant**
- **Origin: Namaqualand**
- **Min temp: to 25 deg F**
- **Forms solitary rounded rosette**
  - **Height: to 12 in**
  - **Diameter: to 18 in**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well drained soil mix**



# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Plant height: to 6 in
  - Plant diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe aculeate

- Raffle plant
- Origin: South Africa, Zimbabwe, Mozambique
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 24 in
  - Diameter: to 18 in
- Propagated by seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

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# Ferocactus pottsii

- Door prize
- Origin: Mexico (Chihuahua, Sonora, Sinaloa)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 2 ft
  - Diameter: to 18 in
- Propagated from cuttings, seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Cephalophyllum 'Red Spike'



- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Forms low ground cover
  - Diameter: to 18 in
  - Height: to 5 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria mystax

- Door prize
- Origin: Mexico (Hidalgo, Oaxaca, Puebla)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 8 in
  - Height: to 6 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloe humilis



- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus riconensis var nidulans

## Door Prize

- Origin: Mexico (Coahuila)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 5 in
  - Height: to 3 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Aloe distans



- Door prize
- Origin: South Africa
- Min temp: to 20 deg F
- Forms sprawling clusters
  - Plant diameter: to 5 in
  - Plant length: to 3 ft
- Filtered sun
- Propagated from seed, cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil

# FREE PLANTS

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# Echinocactus platyacanthus

- **Free plant**
- **Origin: Mexico (wide range throughout northeast and central)**
- **Min temp: to 14 deg F**
- **Grows slowly and eventually may become massive**
- **Usually solitary**
  - **Stem diameter: to 3 ft**
  - **Height: to 8 ft**
- **Propagated from seed, offsets**
- **Full sun**
- **Well-drained soil**



# Faucaria tuberculosa

## Japanese line



### Free plant

- Origin: South Africa (Cape Province)
- Cultivar: super warty
- Min temp: to 14 deg F
- Forms small dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Astrophytum asterias

- Free plant
- Origin: Texas (Lower Rio Grande Valley); Mexico (Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Geophytic
- Always solitary
  - Diameter: to 6 in
  - Height: to 3 in
- Propagated from seed
- Filtered sun
- Well-drained soil



# Pleiospilos bolusii



## Free plant

- Origin: South Africa (Western and Eastern Cape)
- Min temp: to 14 deg F
- Usually solitary; may cluster
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria hahniana

- Free plant
- Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 2 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil





# Titanopsis aff calcareum



- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Forms multiple stems from base
  - Stem diameter: to 3 in
  - Stem height: to 2 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave multiflifera

- Free plant
- Origin: Mexico (Chihuahua, Durango, Sinaloa)
- Min temp: to 14 deg F
- Grows slowly
- Forms dense solitary rosette
  - Diameter: to 4 ft
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Aloinopsis rubrolineata



- **Free plant**
- **Origin: South Africa (Graff Renet)**
- **Min temp: to 14 deg F**
- **Grows as low multi-branched mat**
- **Eventually forms large caudex**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Gasteria 'Silver Fuji'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Eventually forms cluster
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloinopsis rosulata



- Free plant
- Origin: South Africa
- Min temp: to 14 deg F
- Starts as low multi-branched mat
- Eventually forms large caudex
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gasteraloe 'Green Ice'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Eventually forms dense rosette
  - Stem height: to 5 in
  - Stem diameter: to 5 in
- Variable coloration
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Euphorbia obesa hybrid



- **Free plant**
- **Origin: Africa (cultivar)**
- **Min temp: protect from frost**
- **Usually solitary; may cluster**
  - **Diameter: to 3 in**
  - **Height: to 4 in**
- **Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Euphorbia suzannae

- Free plant
- Origin: South Africa (Little Karoo, Cape Province)
- Min temp: protect from frost
- Eventually forms dense rosette
  - Stem height: to 6 in
  - Stem diameter: to 1 1/2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil





# Haworthia limifolia

- Free plant
- Origin: South Africa, Mozambique, Swaziland
- Min temp: protect from frost
- Forms dense cluster
  - Stem diameter: to 7 in
  - Stem length: to 12 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Aloe zanzibarica



- **Free plant**
- **Origin: Africa (Kenya)**
- **Min temp: protect from frost**
- **Forms large hanging clusters**
  - **Stem diameter: to 4 in**
  - **Stem length: to 8 in**
- **Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Aloe jucunda

- Free plant
- Origin: Somalia
- Min temp: protect from frost
- Forms dense clusters
  - Stem height: to 12 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Aloe 'Latte' (K. Griffin)



- Free plant
- Origin: Cultivar
- Min temp: give frost protection in colder areas
- Forms cluster
  - Stem diameter: to 7 in
  - Stem length: to 12 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia emelyae v. multifolia

- Free plant
- Origin: South Africa
- Min temp: protect from frost
- Forms dense rosette
  - Stem diameter: to 7 in
  - Stem length: to 5 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Haworthia herrei v. jacobseniana



- Free plant
- Origin: South Africa (Eastern Cape, Little Karoo)
- Min temp: protect from frost
- Forms hanging cluster
  - Stem diameter: to 3 in
  - Stem length: to 12 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia 'Mandy's Hybrid'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Has variable coloration
- Forms dense clusters
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Haworthia decipians



- **Free plant**
- **Origin: South Africa (Eastern Cape, Western Cape)**
- **Min temp: protect from frost**
- **Forms dense cluster**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**



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FREE PLANTS

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# RAFFLE PLANTS

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# Ferocactus alamosanus

- Raffle plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Abromeitiella brevifolia



- **Raffle plant**
- **Origin: Argentina, Bolivia**
- **Min temp: protect from frost**
- **Drought-resistant bromeliad**
- **Forms dense dome-like cluster**
  - **Stem height: to 1 1/2 in**
  - **Stem diameter: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well drained soil mix**

# Ferocactus hystrix

- Raffle prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Pachyveria hybrid 'Blue Belle'



- Raffle plant
- Origin: Africa (cultivar)
- Min temp: protect from frost
- Forms dense clusters
  - Stem height: to 3 in
  - Stem diameter: to 4 in
- Propagated from offsets
- Filtered sun
- Well-drained soil

# Gymnocalycium saglionis

- Raffle plant
- Origin: Argentina
- Min temp: to 14 deg F
- Solitary barrel cactus
  - Stem diameter to 15 in
  - Height: to 3 ft
- Largest of the gymnos
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil





# Crassula hybrid 'Morgan's Beauty'



- Raffle plant
- Origin: Africa (cultivar)
- Min temp: protect from frost
- C falcata x C mesembryanthemopsis
- Blooms in winter
- Forms small compact clusters
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

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# Mammillaria rubrograndis

- Door prize
- Origin: Mexico (Coahuila, Durango, Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 7 in
  - Height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# Agave 'Mad Cow'

*A bovicornuta* x *A colorata*



- Door prize
- Origin: Mexico (cultivar)
- Min temp: to 18 deg F
- May cluster
  - Diameter: to 2 ft
  - Height: to 2 ft
- Propagated from seed or offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria standleyi

- Door prize
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia species



- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium cardenasianum

- Door prize
- Origin: Bolivia
- Min temp: give protection in colder areas
- Covered with strong twisted spines that often prevent flower from opening fully
- Usually solitary
  - Diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia hybrid



- Door prize
- Origin: South Africa (cultivar)
- Min temp: to 25 deg F
- Forms low ground cover
  - Stem diameter: to 3 in
  - Stem height: to 1½ in
- Filtered sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# FREE PLANTS

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# Aloe humilis



- **Free plant**
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus viridiflorus v carrellii

- Free plant
- Origin: South Texas
- Min temp: to 14 deg F
- Variety that grows singly or forms two stems
  - Stem height: to 5 in
  - Stem diameter: to 2 in
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Aloe jucunda

- Free plant
- Origin: Somalia
- Min temp: protect from frost
- Forms dense clusters
  - Stem height: to 12 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Notocactus (Wigginsia) leprosorum



- Free plant
- Origin: Brazil (Rio Grande do Sul)
- Min temp: to 14 deg
- Usually solitary
  - Diameter: to 6 in
  - Height: to 5 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Acanthocalycium thionanthum

- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 6 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria wiesingeri



- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 2 in
  - Height: to 3 in
- Propagated from seed
- Full sun
- Well-drained soil

# Mammillaria mixtecensis (mystax)

- Free plant
- Origin: Mexico (central)
- Min temp: to 14 deg F
- Flowers rose-purple
- Solitary
  - Height: to 6 in
  - Diameter: to 4 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil





# Echinocereus triglochidiatus v gonacanthus (White Sands)



- Free plant
- Origin: New Mexico
- Min temp: to 14 deg F
- Forms open cluster
  - Stem diameter: to 4 in
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Well-drained soil

# Neoporteria senilis

- Free plant
- Origin: Chile (Rio Chapoa)
- Min temp: to 14 deg F
- Solitary
  - Height: to 7 in
  - Diameter: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Oreocereus leucotrichus



- **Free plant**
- **Origin: Peru (southern), Chile (northern)**
- **Min temp: to 14 deg F**
- **Forms dense broad clumps**
  - **Stem diameter: to 4 in**
  - **Height: to 6 ft**
- **Propagated from seed**
- **Full / Filtered sun**
- **Well-drained soil**

# Euphorbia suzannae

- Free plant
- Origin: South Africa (Little Karoo, Cape Province)
- Min temp: protect from frost
- Eventually forms dense rosette
  - Stem height: to 6 in
  - Stem diameter: to 1 1/2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Thelocactus bicolor v bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



# Acanthocalycium violaceum



## Free plant

- Origin: Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 18 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Gasteria 'Silver Fuji'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Eventually forms cluster
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma

- Free plant
- Origin: Mexico (central and northern highlands)
- Min temp: to 14 deg F
- Has no spines
- Usually solitary
  - Diameter: to 8 in
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Well-drained soil





# Thelocactus bicolor v schwarzii

- Free plant
- Origin: Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Has showy flowers
- Usually solitary
  - Height: to 6 in
  - Stem diameter: to 3 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Use well-drained soil



# Aloinopsis rosulata



- Free plant
- Origin: South Africa
- Min temp: to 14 deg F
- Starts as low multi-branched mat
- Eventually forms large caudex
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria hahniana

- **Free plant**
- **Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 4 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Well-drained soil**



# Titanopsis aff calcareum



- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Forms multiple stems from base
  - Stem diameter: to 3 in
  - Stem height: to 2 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia herrei v. jacobsoniana



- Free plant
- Origin: South Africa (Eastern Cape, Little Karoo)
- Min temp: protect from frost
- Forms hanging cluster
  - Stem diameter: to 3 in
  - Stem length: to 12 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia 'Mandy's Hybrid'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Has variable coloration
- Forms dense clusters
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Haworthia decipians



- Free plant
- Origin: South Africa (Eastern Cape, Western Cape)
- Min temp: protect from frost
- Forms dense cluster
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Miles' To Go
- B & B Cactus Farm
- Starr Nursery







# Tucson Cactus and Succulent Society April 2017

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Coryphantha macromeris



- Raffle plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Durango, Zacatecas)
- Min temp: to 14 deg F
- Has deep, massive taproot
- Branches profusely, forms low mound
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Yucca baccata

- Raffle plant
- Origin: SW USA (Arizona, California, Utah, Texas); NW Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg
- May be solitary or clumped
  - Stem height: to 3 ft
  - Stem diameter: to 2 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Use well drained soil mix



# Echinocereus enneacanthus



- Raffle plant
- Origin: USA (Texas, New Mexico); Mexico (Sonora, Durango, Nuevo Leon, Coahuila)
- Min temp: to 14 deg
- Forms loose clumps
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated via cuttings, seed
- Full sunlight
- Water when dry during warm weather
- Well-drained soil

# Hesperaloe parviflora

## ‘Brakelights’



- Raffle plant
- Cultivar
- Origin: SW USA (Texas); NE Mexico (Coahuila)
- Min temp: to 14 deg
- Forms arching rosettes
  - Height: to 18 in
  - Diameter: to 22 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil

# Dasyllirion longissimum



- Raffle plant
- Origin: Mexico
- Min temp: to 14 deg F
- Grows tall flowering stalk
- Eventually forms a shaggy tree w/trunk
  - Diameter: to 6 ft
  - Height: to 9 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus coccineus

- Raffle plant
- Origin: USA (Arizona, Texas, New Mexico, Colorado, Utah, Nevada, California) and Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Forms large clusters
  - Stem diameter: to 4 in.
  - Stem height: to 15 in.
- Spination highly variable
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus hystrix

- Door prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave geminiflora

- Door Prize
- Origin: Mexico (Jalisco, Nayarit)
- Min temp: 25-30 deg F
- Habitat: Open oak woodland
- Forms single dense round rosette
  - Diameter: to 3 ft
  - Height: to 3 ft
- Dies after flowering but may sprout new shoots at base
- Propagated by seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Denmoza rhodacantha



- Door prize
- Origin: Argentina (Mendoza—Salta)
- Min temp: to 14 deg F
- Grows slowly, eventually forms columnar cactus
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mangave hybrid

## Manfreda x Agave

- Door Prize
- Origin: Cultivar
- Min temp: give protection in colder areas
- Has faster growth rate than most agaves
- Usually single
  - Height: to 12 in
  - Diameter: to 18 in
- Propagated from offsets, seed
- Full / filtered sun
- Well-drained soil



# Mammillaria crassimammillis

- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 14 deg F
- Usually solitary, flat
  - Diameter: to 12 in
  - Height: to 8 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Nolina microcarpa 'Beargrass'

- Door prize
- Origin: USA (Arizona, New Mexico, Utah); Mexico
- Min temp: to 14 deg F
- Forms underground caudex
  - Diameter: to 3 ft
  - Height: to 5 ft
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**



# Mammillaria standleyi

- Free plant
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia species



- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Stenocereus pruinosus



- Free plant
- Origin: Mexico (Oaxaca, Puebla, Veracruz)
- Min temp: protect from frost
- Forms tree-like columnar cactus with arms branching near base
  - Stem diameter: to 12 in
  - Stem height: to 20 ft
- Full sun
- Propagated from seed , offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echeveria agavoides

## ‘Lipstick’

- Free plant
- Origin: Mexico
- Min temp: 15 to 20 deg F
- Forms cluster
  - Rosette diameter: to 8 in
  - Rosette height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus stramineus



- **Free plant**
- **Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Forms large, compact colonies**
  - **Stem diameter: to 3 in**
  - **Height: to 10 in**
  - **Cluster diameter: to 3 ft**
- **Propagated from cuttings, seed**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Aptenia cardifolia variegata

- **Free plant**
- **Origin: South Africa (Eastern Cape Province)**
- **Min temp: protect from frost**
- **Forms ground cover or small hanging clusters**
  - **Diameter: to 6 in**
  - **Height: to 6 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Cereus terscheckii



- **Free plant**
- **Origin: Argentina**
- **Min temp: to 14 deg F**
- **Also called 'Argentine saguaro'**
- **Solitary with branching arms**
  - **Height: to 25 ft**
  - **Stem diameter: 11 in**
- **Propagated from seed**
- **Grows more quickly than a saguaro (12-18 inches per year)**
- **Full sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



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- Bach's Greenhouse Cactus Nursery
  - Miles' to Go





# Tucson Cactus and Succulent Society May 2017

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria petersonii

- Raffle plant
- Origin: Mexico (Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 12 in
- Propagated by seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Yucca rigida



- **Raffle Plant**
- **Origin: Mexico (Chihuahua, Durango, Zacatecas)**
- **Min temp: to 14 deg F**
- **Has minimal branching near top**
- **Slow growing, tree-like yucca**
  - **Height: to 12 ft**
  - **Diameter: to 5 ft**
- **Propagated from seeds**
- **Full / filtered sun**
- **To establish, water when dry during warm weather**
  - **Shouldn't need water after that**
- **Well-drained soil**

# Stetsonia coryne

- Raffle plant
- Origin: Argentina, Bolivia
- Min temp: to 14 deg F
- Forms large tree-like columnar cactus with many branches
  - Height: to 15 ft
  - Diameter: to 10 ft
- Aka 'Toothpick Cactus'
- Propagated by seed, cuttings
  - Keep cuttings very dry to root
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Dasyllirion wheeleri

## ‘Desert Spoon’



- Raffle plant
- Origin: SW USA (Arizona, New Mexico, Texas); Mexico (Sonora)
- Min temp: to 14 deg
- May be solitary or clumped
  - Height: to 6 ft
  - Diameter: to 4 ft
- Propagated from seed
- Full sun
- To establish, water when dry during warm weather
  - Shouldn't need water after that
- Use well drained soil mix



# Mammillaria parkisonii

## 'Owl Eye Cactus'

- Raffle plant
- Origin: Mexico (Queretero, Hidalgo)
- Min temp: to 14 deg F
- Known for dichotomous branching
- Forms large mounding cluster
  - Stem diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave geminiflora



- Raffle plant
- Origin: Mexico (Jalisco, Nayarit)
- Min temp: to 14 deg F
- Habitat: Open oak woodland
- Forms single dense round rosette
  - Diameter: to 3 ft
  - Height: to 3 ft
- Sprouts new shoots after flowering
- Propagated by seeds, offsets
- Filtered sun / shade
- Water when dry during warm weather
- Well-drained soil

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Echinocereus triglochidiatus



- Door prize
- Origin: USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Senecio anteuphorbium

- Door prize
- Origin: Africa (Morocco)
- Min temp: to 25 deg F
- History: Planted in Europe since 1570
- Forms upright deciduous shrub
  - Diameter: to 3 ft
  - Height: to 3 ft
- Propagated by seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Coryphantha macromeris



- Door prize
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Durango, Zacatecas)
- Min temp: to 14 deg F
- Has deep, massive taproot
- Branches profusely, forms low mound
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Gasteria okavango 'Anna'

- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Forms small cluster
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated by seeds, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus glaucescens

- Door prize
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Echeveria purpureum



- Door prize
- Origin: Mexico
- Min temp: to 25 deg F
- Forms small cluster
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated by seeds, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

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**Must stay until end of meeting**

**Please be courteous**

# Mammillaria standleyi

- Free plant
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia truncata var maughanii



- **Free plant**
- **Origin: South Africa (Western Cape)**
- **Min temp: protect from frost**
- **Forms dense clusters**
  - **Stem diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Echinocereus stramineus

- Free plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Forms large, compact colonies
  - Stem diameter: to 3 in
  - Height: to 10 in
  - Cluster diameter: to 3 ft
- Propagated from cuttings, seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Echeveria agavoides

## ‘Lipstick’



- Free plant
- Origin: Mexico
- Min temp: 15 to 20 deg F
- Forms cluster
  - Rosette diameter: to 8 in
  - Rosette height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil



# Aptenia cardifolia variegata



- **Free plant**
- **Origin: South Africa (Eastern Cape Province)**
- **Min temp: protect from frost**
- **Forms ground cover or small hanging clusters**
  - **Diameter: to 6 in**
  - **Height: to 6 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Euphorbia pseudoglobosa

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: protect from frost
- Grows into thick mat
- Forms caudex base with segmented branches
  - Stem diameter: to 1 in
  - Height: to 5 in
- Propagated from seed
- Filtered sun
- Well-drained soil



Uploaded by: Valentino Vallicelli

# Gymnocalycium stellatum



- **Free plant**
- **Origin: Argentina**
- **Min temp: to 25 deg F**
- **Grows slowly**
- **Solitary**
  - **Height: to 1 in**
  - **Diameter: to 4 in**
- **Propagated from seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Euphorbia schoenlandii

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: protect from frost
- Forms spiky columnar barrel
  - Stem diameter: to 8 in
  - Height: to 3 ft
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus rectispinus



- **Free plant**
- **Origin: Mexico (Baja California)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 24 in**
  - **Height: to 3 ft**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**

# Chamaecereus 'Fire Chief' Johnson Hybrid

- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Forms dense mat
  - Stem diameter: to  $\frac{3}{4}$  in
  - Height: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Dorstenia foetida



- Free plant
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia mirabilis var paradoxa

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: protect from frost
- Forms dense clusters
  - Stem diameter: to 3 in
  - Height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Pachypodium rosulatum var gracilis



- **Free plant**
- **Origin: Madagascar**
- **Min temp: protect from frost**
- **Forms caudex with spiny branches**
  - **Diameter: to 16 in**
  - **Height: to 3 ft**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Fouquieria diguetii

- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 25 deg F
- In same species as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



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RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS

Presented by Donna and Robert Ellis

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# Grusonia invicta



- Raffle plant
- Origin: Mexico (Central Baja California)
- Min temp: tolerates occasional light frost
- Forms a low wide mat
  - Height: to 12 in
  - Mat diameter: to 5 ft
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mangave hybrid: 'Bloodspot'

- Raffle plant
- Origin: Cultivar
- Min temp: 22-25 deg F
- *Agave macroacantha* x *Manfreda maculosa*?
- Grows slowly
- Usually solitary, forms compact upright rosette
  - Height: to 12 in
  - Diameter: to 15 in
- May form offsets
- Full / Filtered sun
- Well-drained soil



# Echinocactus texensis



- Raffle plant
- Origin: USA (Texas, New Mexico, Oklahoma); Mexico (Coahuila, Nuevo Leon, Durango, Tamaulipas)
- Min temp: to 14 deg F
- Habitat: Open oak woodland, often hidden in grass (hence its nickname, 'Horse Crippler')
- Grows as flat, circular barrel
  - Diameter: to 1 ft
  - Height: to 6 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Hesperaloe parviflora

- Raffle plant
- Origin: SW USA (Texas); NE Mexico (Coahuila)
- Min temp: to 14 deg
- Forms arching rosettes
  - Height: to 18 in
  - Diameter: to 22 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil





# Opuntia basilaris



- Raffle plant
- Origin: USA (Arizona, California, Utah, Nevada); Mexico
- Min temp: to 14 deg F
- Forms medium-size cluster of jointed pads
  - Pad diameter: to 6 in
  - Pad width: ½ in
- Propagated by seed, cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Nolina nelsonii

- Raffle Plant
- Origin: Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Has large white flower
- Slow growing, tree-like shrub
  - Height: to 10 ft
  - Diameter: to 4 ft
- Propagated from seeds
- Full sun
- To establish, water when dry during warm weather
  - Shouldn't need water after that
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Manfreda maculosa

- Door prize
- Origin: Texas, NE Mexico
- Min temp: to 18 deg F
- “Looks delicate but is surprisingly tough”
- Creates low spreading clump
  - Height: to 12 inches
- Propagated from underground rhizomes or seed
- Needs regular irrigation to remain full
- Filtered sun
- Use well-drained soil



# Mammillaria petersonii



- Door prize
- Origin: Mexico (Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 12 in
- Propagated by seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Pereskia aculeata

- Door prize
- Origin: Brazil, Central America, West Indies
- Min temp: protect from frost
- Considered best living representative of ancestral cacti
- Creates spreading leafy shrub
  - Height: to 4 ft
- Propagated from seed, cuttings
- Needs more irrigation than a cactus
- Full / Filtered sun
- Use well-drained soil



# Ferocactus alamosanus

- Door prize
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Hayworthia hybrid



- Door prize
- Origin: Mexico
- Min temp: to 25 deg F
- Forms small clustering mound
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated by seeds, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus triglochidiatus var mojavensis

- Door prize
- Origin: USA (Arizona, Nevada, Utah) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Ferocactus glaucescens

- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium stellatum



- **Free plant**
- **Origin: Argentina**
- **Min temp: to 25 deg F**
- **Grows slowly**
- **Solitary**
  - **Height: to 1 in**
  - **Diameter: to 4 in**
- **Propagated from seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Fouquieria diguetii

- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 25 deg F
- In same species as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



# Agave stricta nana

- Free plant
- Origin: Mexico (Puebla)
- Min temp: to 20 deg F
- Grows slowly, stays small
- Forms new offsets at base
  - Rosette diameter: to 10 in
  - Rosette height: to 10 in
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Stenocactus multcostatus



- **Free plant**
- **Origin: Mexico (Coahuila, Chihuahua, Durango)**
- **Min temp: to 14 deg F**
- **Has wide variation in spination and body shape**
- **Solitary**
  - **Stem diameter: to 6 in**
  - **Height: to 6 in**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Fouquieria macdougalii

- Free plant
- Origin: Mexico (Sonora)
- Min temp: to 25 deg F
- In same genus as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil





# Pachypodium saundersii



- Free plant
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echinopsis hybrid

- Free plant
- Origin: Bolivia, Paraguay
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma

- Free plant
- Origin: Mexico (central and northern highlands)
- Min temp: to 14 deg F
- Has no spines
- Usually solitary
  - Diameter: to 8 in
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Leuchtenbergia principis



- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus enneacanthus var brevispinus



- Free plant
- Origin: USA (Texas, New Mexico); Mexico (Sonora, Durango, Nuevo Leon, Coahuila; San Luis Potosi)
- Min temp: to 14 deg
- Forms loose clumps
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated via cuttings, seed
- Full sunlight
- Water when dry during warm weather
- Well-drained soil

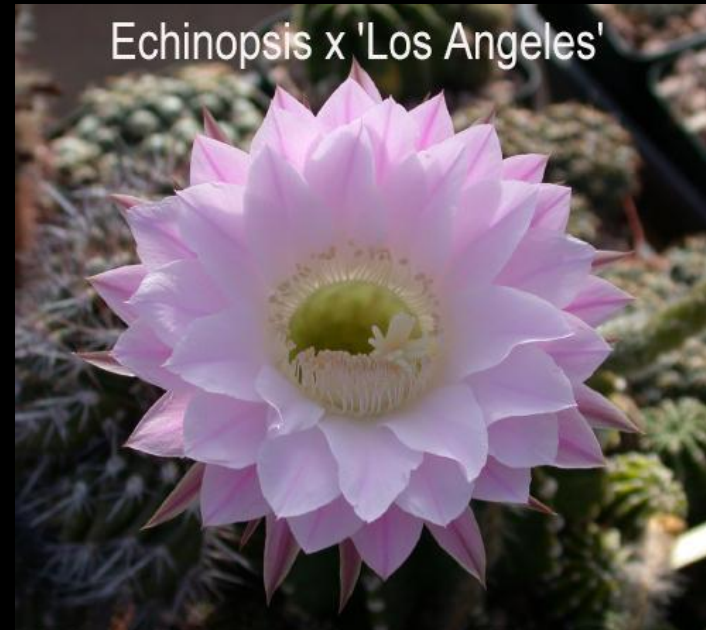
# Tumamoca macdougalii

- Free plant
- Origin: USA (Arizona); Mexico (Sonora)
- Min temp: to 14 deg
- Named for hill in Tucson where plant was discovered
- Monoecious vine that forms underground caudex
  - Caudex diameter: to 8 in
  - Caudex height: to 3 in
- Propagated via seed
- Full / filtered sunlight
- Water when dry during warm weather
- Well-drained soil



# Echinopsis x 'Los Angeles'

- **Free plant**
- **Origin: Bolivia, Paraguay**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria bombycina



- **Free plant**
- **Origin: Mexico (Jalisco, Aguascalientes)**
- **Min temp: give protection in colder areas**
- **Forms clumps**
  - **Stem diameter: to 2 in**
  - **Stem height: to 6 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Stenocactus lloydii

- **Free plant**
- Origin: Mexico (Chihuahua, Coahuila, Durango)
- Min temp: to 14 deg F
- Solitary
  - Diameter: to 6 in
  - Height: to 8 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Grusonia invicta



- **Free plant**
- **Origin: Mexico (Central Baja California)**
- **Min temp: tolerates occasional light frost**
- **Forms a low wide mat**
  - **Height: to 12 in**
  - **Mat diameter: to 5 ft**
- **Propagated from seeds or cuttings**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Euphorbia schoenlandii

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: protect from frost
- Forms spiky columnar barrel
  - Stem diameter: to 8 in
  - Height: to 3 ft
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus rectispinus



- **Free plant**
- **Origin: Mexico (Baja California)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 24 in**
  - **Height: to 3 ft**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**

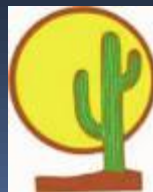
# Dorstenia foetida



- Free plant
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Miles' to Go
- Bach's Greenhouse Cactus Nursery
- Robert Ellis





# Tucson Cactus and Succulent Society July 2017

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**



# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Stetsonia coryne



- Raffle plant
- Origin: Argentina, Bolivia
- Min temp: to 14 deg F
- Forms large tree-like columnar cactus with many branches
  - Height: to 15 ft
  - Diameter: to 10 ft
- Aka 'Toothpick Cactus'
- Propagated by seed, cuttings
  - Keep cuttings very dry to root
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Dyckia hybrid 'Grape Jelly'

- **Raffle plant**
- **Origin: Cultivar**
- **Min temp: give some protection in colder areas**
- **Bromeliad**
- **Forms cluster of rosettes**
  - **Rosette height: to 9 in**
  - **Rosette diameter: to 9 in**
- **Propagated from offsets**
- **Filtered sun**
- **Well-drained soil**



# Mammillaria parkinsonii



- Raffle plant
- Origin: Mexico (Queretero)
- Min temp: to 14 deg F
- Forms clusters
  - Plant height: to 6 in
  - Plant diameter: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Eulophia petersii

- Raffle plant
- Origin: Africa (Namibia to Arabian Peninsula)
- Min temp: protect from frost
- Forms large pseudobulbs
- Desert-adapted orchid
  - Height: to 18 in
  - Diameter per bulb: to 3 in
- Propagated from bulbs, seed
- Filtered sun
- Water when dry in warm weather
- Use well-drained soil mix



# Echinocereus triglochidiatus



- Raffle plant
- Origin: USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Euphorbia antisiphilitica

## 'Candelilla'



- **Raffle plant**
- **Origin: USA (Texas, New Mexico); Mexico (Chihuahua, Coahuila, Hidalgo, Queretaro)**
- **Min temp: to 14 deg F**
- **Forms dense, erect shrub**
  - **Stem diameter: to ½ in**
  - **Stem height: to 20 in**
- **Propagated by seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Dasyllirion wheeleri

## ‘Desert Spoon’



- Door prize
- Origin: SW USA (Arizona, New Mexico, Texas); Mexico (Sonora)
- Min temp: to 14 deg
- May be solitary or clumped
  - Height: to 6 ft
  - Diameter: to 4 ft
- Propagated from seed
- Full sun
- To establish, water when dry during warm weather
  - Shouldn't need water after that
- Use well drained soil mix

# Mammillaria rubrograndis

- Door prize
- Origin: Mexico (Coahuila, Durango, Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 7 in
  - Height: to 5 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use porous, well-drained soil



# Sanseveria trifasciata

## ‘Moonshine’



- Door prize
- Origin: West Africa
- Min temp: protect from frost
- Tolerates low light
- Creates cluster
  - Height: to 14 in
  - Leaf width: to 3 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use porous, well-drained soil

# Ferocactus pottsii

- Door prize
- Origin: Mexico (Chihuahua, Sonora, Sinaloa)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 2 ft
  - Diameter: to 18 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia cymbiformis var incurvula



- Door prize
- Origin: South Africa (Eastern Cape)
- Min temp: protect from frost
- Ends of leaves are transparent
- Forms clusters
  - Height: to 4 in
  - Diameter: to 10 in
- Propagated from seed or offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Oreocereus trollii

## 'Old Man of the Andes'

- Door prize
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Habitat: Arid mountains to 13,000 ft
- Forms chunky clustered columns
  - Diameter per stem: to 6 in
  - Height: to 2 ft
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

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# Thelocactus bicolor

- Free plant
- Origin: Texas, Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Well-drained soil





# Haworthia mirabilis

- **Free plant**
- **Origin: South Africa**
- **Min temp: protect from frost**
- **Forms cluster of rosettes**
  - **Rosette height: to 2 in**
  - **Rosette diameter: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Well-drained soil**



# Trichocereus terscheckii



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria zielmanniana

- Free plant
- Origin: Mexico (Guanajuato)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Astrophytum capricorne



- Free plant
- Origin: Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Spines serve as camouflage in grass
- Usually solitary
  - Stem diameter: to 6 in
  - Stem height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus glaucescens

- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Senecio stapeliiformis

- Free plant
- Origin: South Africa (Eastern Cape)
- Min temp: protect from frost
- Forms cluster with erect stems that eventually recline
  - Stem height: to 10 in
  - Stem diameter: to ½ in
- Propagated from seed, rhizomes
- Filtered sun
- Well-drained soil



# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echinopsis calorubra

- **Free plant**
- **Origin: Bolivia (Cochabamba)**
- **Min temp: to 14 deg f**
- **Habitat: juniper woodland**
- **May form cluster in time**
  - **Height: to 4 in**
  - **Diameter: to 4 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**





# Mammillaria marksiana



- Free plant
- Origin: Mexico (Sonora, Sinaloa, Durango)
- Min temp: to 14 deg F
- Forms clusters with age
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echinocereus stramineus

- Free plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Forms large, compact colonies
  - Stem diameter: to 3 in
  - Height: to 10 in
  - Cluster diameter: to 3 ft
- Propagated from cuttings, seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Adromischus maculatus

- Free plant
- Origin: South Africa (Cape Province)
- Min temp: protect from frost in colder areas
- Forms small clusters or mats
  - Leaf diameter: to 1 in
  - Cluster height: to 3 in
- Develops caudex with age
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Mammillaria plumosa



## Free plant

- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Fouquieria diguetii

- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 25 deg F
- In same genus as Ocotillo (Fouquieria splendens)
- Grows into dense, spiky shrub
  - Diameter: to 4 ft
  - Height: to 8 ft
- Propagated from seed
- Filtered sun
- Well-drained soil



# Agave stricta nana

- Free plant
- Origin: Mexico (Puebla)
- Min temp: to 20 deg F
- Grows slowly, stays small
- Forms new offsets at base
  - Rosette diameter: to 10 in
  - Rosette height: to 10 in
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Echinopsis hybrid

## 'bidoubled flower'

- Free plant
- Origin: Bolivia, Paraguay
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





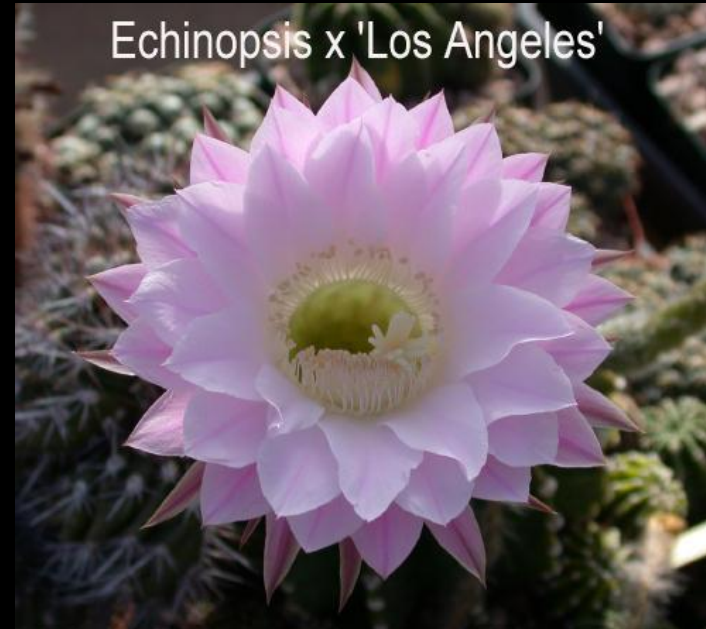
# Echinocereus enneacanthus



- Free plant
- Origin: USA (Texas, New Mexico); Mexico (Sonora, Durango, Nuevo Leon, Coahuila)
- Min temp: to 14 deg
- Forms loose clumps
  - Stem diameter to 3 in
  - Height: to 15 in
- Propagated via cuttings, seed
- Full sunlight
- Water when dry during warm weather
- Well-drained soil

# Echinopsis hybrid 'Los Angeles'

- **Free plant**
- **Origin: Bolivia, Paraguay**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria bombycina



- **Free plant**
- **Origin: Mexico (Jalisco, Aguascalientes)**
- **Min temp: give protection in colder areas**
- **Forms clumps**
  - **Stem diameter: to 2 in**
  - **Stem height: to 6 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Grusonia invicta



- **Free plant**
- **Origin: Mexico (Central Baja California)**
- **Min temp: tolerates occasional light frost**
- **Forms a low wide mat**
  - **Height: to 12 in**
  - **Mat diameter: to 5 ft**
- **Propagated from seeds or cuttings**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Ferocactus rectispinus



- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 24 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Well-drained soil

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- Dan Birt (assorted Haworthias)
- Bach's Greenhouse Cactus Nursery
  - Miles' to Go
  - B & B Cactus Farm
- Robert and Donna Ellis





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**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**



# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Cereus aethiops

- Raffle plant
- Origin: Argentina
- Min temp: protect from frost
- Blooms at night
- Forms columnar cactus with many branches from base
  - Stem height: to 6 ft
  - Stem diameter: to 3 in
- Propagated from seed, offsets
- Full sun
- Well-drained soil



# Mangave hybrid: 'Bloodspot'

- Raffle plant
- Origin: Cultivar
- Min temp: 22-25 deg F
- Agave macroacantha x Manfreda maculosa?
- Grows slowly
- Usually solitary, forms compact upright rosette
  - Height: to 12 in
  - Diameter: to 15 in
- May form offsets
- Full / Filtered sun
- Well-drained soil



# Oreocereus celsianus

- Raffle plant
- Origin: Argentina, Bolivia, Peru
- Min temp: 14 deg F
- “Old Man of the Andes”
- Usually solitary, may cluster at base
  - Width of stem: up to 8 in
  - Height: to 10 ft
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave colorata



- Raffle plant
- Origin: Mexico (Sonora)
- Min temp: to 18 deg F
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus polyacanthus ssp pacificus



- Raffle plant
- Origin: Mexico (Baja)
- Min temp: to 14 deg F
- Forms a large clump
  - Stem height: to 12 in
  - Stem diameter: to 3 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Cryptobergia hybrid 'Red Burst'

- Raffle plant
- Origin: South America
- Min temp: to 26 deg F
- Bromeliad hybrid
  - *Billbergia nutans* X *Cryptanthus bahianus*
- Forms dense, clumpy rosettes
  - Stem diameter: to 12 in
  - Stem height: to 8 in
- Propagated by offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Pachypodium saundersii



- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Parodia aurispina

- Door prize
- Origin: S Bolivia, N Argentina
- Min temp: tolerates light frost
- Small to medium in size
  - Diameter: to 4 inches
  - Height: to 5 inches
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Tradescantia sillamontana



- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: rebounds from frost
- Compatible with cacti /succulents
- Creates spreading cluster
  - Stem height: to 24 in
  - Cluster width: to 24 in
- Full / filtered sun
- Propagated from cuttings set in water
- Water when dry during warm weather
- Use porous, well-drained soil

# Ferocactus emoryi ssp covillei

- Door prize
- Origin: Mexico (Sonora); Arizona (Yuma, Maricopa Co)
- Min temp: to 14 deg F
- Usually solitary, forms heavy spines
  - Diameter: to 18 in
  - Height: to 2 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Aloe variegata



- Door prize
- Origin: South Africa, Namibia
- Min temp: to 20 deg F
  - Survives in Vail underneath mesquite trees
- Forms rosettes
  - Stem width: to 9 in
  - Stem height: to 12 in
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Mammillaria mystax

- Door prize
- Origin: Mexico (central)
- Min temp: to 14 deg F
- Flowers rose-purple
- Solitary
  - Height: to 6 in
  - Diameter: to 4 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil



# FREE PLANTS

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**Must stay until end of meeting**

**Please be courteous**

# Senecio stapeliiformis

- Free plant
- Origin: South Africa (Eastern Cape)
- Min temp: protect from frost
- Forms cluster with erect stems that eventually recline
  - Stem height: to 10 in
  - Stem diameter: to ½ in
- Propagated from seed, rhizomes
- Filtered sun
- Well-drained soil





# Ferocactus glaucescens

- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinopsis calorubra

- **Free plant**
- **Origin: Bolivia (Cochabamba)**
- **Min temp: to 14 deg f**
- **Habitat: juniper woodland**
- **May form cluster in time**
  - **Height: to 4 in**
  - **Diameter: to 4 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria prolifera



- Free plant
- Origin: USA (Texas); Mexico (Coahuila, Nuevo Leon); Cuba; Dominican Republic; Haiti
- Min temp: to 14 deg F
- Forms clusters with age
  - Stem diameter: to 2 in
  - Stem height: to 2 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echinocereus stramineus

- Free plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Forms large, compact colonies
  - Stem diameter: to 3 in
  - Height: to 10 in
  - Cluster diameter: to 3 ft
- Propagated from cuttings, seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria matudae



## Free plant

- Origin: Mexico (Michoacan)
- Min temp: protect from frost
- Forms wide clusters in time
  - Stem length: to 20 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Huernia procumbens

- Free plant
- Origin: South Africa, Zimbabwe
- Min temp: protect from frost in colder areas
- Forms snaky stems that trail close to the ground
  - Stem length: to 12 in
  - Stem diameter: to 1/2 in
- Do best in wide shallow containers
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Glottiphyllum depressum



- Free plant
- Origin: South Africa (Little Karoo, Western Cape)
- Min temp: protect from frost
- Forms clusters close to the ground
  - Cluster diameter: to 12 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Tephrocactus articulatus

- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 1 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Thelocactus macdowellii

- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Usually solitary, may cluster in time**
  - **Stem diameter: to 4 in**
  - **Stem height: to 4 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Agave nickelsiae



- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria sonorensis

- **Free plant**
- **Origin: Mexico (Sonora, Sinaloa, Chihuahua)**
- **Min temp: to 14 deg F**
- **Grows slowly**
- **Eventually forms large mounds**
  - **Stem height: to 6 in**
  - **Diameter per stem: to 6 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Well-drained soil**



# Gasteraloe 'Green Ice'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus viridiflorus var davisii



- Free plant
- Origin: Texas (Brewster Co, Marathon)
- Min temp: to 24 deg F
- Very small--grows slowly
  - Stem diameter to 1 in
  - Stem height: to 1 in
- Propagated via seed
- Full/filtered sunlight
- Water when dry during warm weather
- Well-drained soil

# Sempervivum arachnoideum

- Free plant
- Origin: Europe (Apennine, Alps, Carpathian mountains)
- Min temp: to 14 deg F
- Forms prolific clusters
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Chamaecereus sylvestrii

## ( 'Peanut Cactus' )



- Free plant
- Origin: Unknown (has not been found in the wild)
- Min temp: to 14 deg F
- Forms clumps
  - Stem diameter: to 1/2 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloinopsis species



- **Free plant**
- **Origin: South Africa**
- **Min temp: protect from frost**
- **Forms dense mat of clustered rosettes**
  - **Stem width: to 1/2 in**
  - **Stem height: to 3 in**
- **Propagated from cuttings, seeds**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Thelocactus heterochromus

- **Free plant**
- **Origin: Northeastern Mexico (Durango, Coahuila)**
- **Min temp: to 14 deg F**
- **Rare: grows slowly**
- **Usually solitary**
  - **Height: to 3 in**
  - **Diameter per stem: to 8 in**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**



# Kalanchoe tomentosa

## ‘Chocolate Soldier’

- Free plant
- Origin: Madagascar
- Min temp: to 25 deg F
- Forms small shrub
  - Stem diameter: to 3 in
  - Stem height: to 2 ft
- Propagated from seed, leaf cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria mystax



- **Free plant**
- **Origin: Mexico (central)**
- **Min temp: to 14 deg F**
- **Flowers rose-purple**
- **Solitary**
  - **Height: to 6 in**
  - **Diameter: to 4 in**
- **Propagated from seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Gasteria hybrid 'Silver Fuji'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- Grows slowly
  - Rosette diameter: to 4 in
  - Height: to 1 in
- May have a tint of purple
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Trichocereus terscheckii



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe variegata



- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Dorstenia foetida



- Free plant
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

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- Bach's Greenhouse Cactus Nursery





# Tucson Cactus and Succulent Society October 2017

RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS

Presented by Donna and Robert Ellis

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Echinocactus horizonthalonius

- Raffle plant
- Origin: USA (Arizona, New Mexico, Texas) ; Mexico (Nuevo Leon, San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 8 in
  - Diameter: to 8 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave nickelsiae



- Raffle plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Stenocereus eruca

- Raffle plant
- Origin: Mexico (Baja California)
- Min temp: protect from frost in colder areas
- Flowers pale pink to cream, bloom at night
- 'Creeping Devil'
- Creates mass of prostrate stems
  - Width of stem: up to 4 in
  - Length: to 10 ft
- Propagated by seed, cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave hybrid 'Blue Glow'

## *A attenuata* x *A ocahui*

- **Raffle plant**
- **Origin: Mexico**
- **Min temp: 20 deg F**
- **Solitary rosette**
  - **Height: up to 2 ft**
  - **Diameter: up to 3 ft**
- **Propagated by pups and coring**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**





# Ferocactus gracilis



- Raffle plant
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 1 ft
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave x leopoldii

- Raffle plant
- Origin: Cultivar by Gary Hammer
- Min temp: to 14 deg F
- Agave filifera filifera x Agave filifera schidigera
- Forms tall, wide clump
  - Stem diameter: to 12 in
  - Stem height: to 12 in
- Propagated by offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Pachypodium saundersii



- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria woodsii

- Door prize
- Origin: Mexico (Guanajuato)
- Min temp: to 14 deg F
- Small to medium in size
  - Diameter: to 3 inches
  - Height: to 8 inches
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave angustifolia



- Door prize
- Origin: Mexico, Costa Rica
- Min temp: to 14 deg F
- Forms rounded rosette atop a short trunk
  - Stem height: to 4 ft
  - Width: to 4 ft
- Full / filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use porous, well-drained soil

# Myrtillocactus geometrizans forma cristata

- Door prize
- Origin: Cultivar
- Min temp: protect from frost in colder areas
- Usually solitary, creates fan-like branches
  - Diameter: to 18 in
  - Height: to 3 ft
- Full sun
- Propagated from cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Aloe variegata



- Door prize
- Origin: South Africa, Namibia
- Min temp: to 20 deg F
  - Survives in Vail underneath mesquite trees
- Forms rosettes
  - Stem width: to 9 in
  - Stem height: to 12 in
- Propagated from seeds, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Espostoa lanata

- Door prize
- Origin: Ecuador, Peru
- Min temp: protect from frost in colder areas
- 'Peruvian Old Man'
- Grows slowly, branches at top
  - Height: to 15 ft
  - Diameter: to 5 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Senecio stapeliiformis

- Free plant
- Origin: South Africa (Eastern Cape)
- Min temp: protect from frost
- Forms cluster with erect stems that eventually recline
  - Stem height: to 10 in
  - Stem diameter: to ½ in
- Propagated from seed, rhizomes
- Filtered sun
- Well-drained soil



# Ferocactus glaucescens

- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinopsis calorubra

- **Free plant**
- **Origin: Bolivia (Cochabamba)**
- **Min temp: to 14 deg f**
- **Habitat: juniper woodland**
- **May form cluster in time**
  - **Height: to 4 in**
  - **Diameter: to 4 in**
- **Propagated by seed, cuttings**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Mammillaria prolifera



- Free plant
- Origin: USA (Texas); Mexico (Coahuila, Nuevo Leon); Cuba; Dominican Republic; Haiti
- Min temp: to 14 deg F
- Forms clusters with age
  - Stem diameter: to 2 in
  - Stem height: to 2 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echinocereus stramineus

- Free plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Forms large, compact colonies
  - Stem diameter: to 3 in
  - Height: to 10 in
  - Cluster diameter: to 3 ft
- Propagated from cuttings, seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria matudae



## Free plant

- Origin: Mexico (Michoacan)
- Min temp: protect from frost
- Forms wide clusters in time
  - Stem length: to 20 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Huernia procumbens

- Free plant
- Origin: South Africa, Zimbabwe
- Min temp: protect from frost in colder areas
- Forms snaky stems that trail close to the ground
  - Stem length: to 12 in
  - Stem diameter: to 1/2 in
- Do best in wide shallow containers
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil



# Glottiphyllum depressum



- Free plant
- Origin: South Africa (Little Karoo, Western Cape)
- Min temp: protect from frost
- Forms clusters close to the ground
  - Cluster diameter: to 12 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Tephrocactus articulatus

- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 1 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus macdowellii

- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Usually solitary, may cluster in time**
  - **Stem diameter: to 4 in**
  - **Stem height: to 4 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Agave nickelsiae



- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria sonorensis

- **Free plant**
- **Origin: Mexico (Sonora, Sinaloa, Chihuahua)**
- **Min temp: to 14 deg F**
- **Grows slowly**
- **Eventually forms large mounds**
  - **Stem height: to 6 in**
  - **Diameter per stem: to 6 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Well-drained soil**



# Gasteraloe 'Green Ice'

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus viridiflorus var davisii



- Free plant
- Origin: Texas (Brewster Co, Marathon)
- Min temp: to 24 deg F
- Very small--grows slowly
  - Stem diameter to 1 in
  - Stem height: to 1 in
- Propagated via seed
- Full/filtered sunlight
- Water when dry during warm weather
- Well-drained soil



# Sempervivum arachnoideum

- Free plant
- Origin: Europe (Apennine, Alps, Carpathian mountains)
- Min temp: to 14 deg F
- Forms prolific clusters
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Chamaecereus sylvestrii

## ( 'Peanut Cactus' )



- Free plant
- Origin: Unknown (has not been found in the wild)
- Min temp: to 14 deg F
- Forms clumps
  - Stem diameter: to 1/2 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloinopsis species



- **Free plant**
- **Origin: South Africa**
- **Min temp: protect from frost**
- **Forms dense mat of clustered rosettes**
  - **Stem width: to 1/2 in**
  - **Stem height: to 3 in**
- **Propagated from cuttings, seeds**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Thelocactus heterochromus

- **Free plant**
- **Origin: Northeastern Mexico (Durango, Coahuila)**
- **Min temp: to 14 deg F**
- **Rare: grows slowly**
- **Usually solitary**
  - **Height: to 3 in**
  - **Diameter per stem: to 8 in**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**



# Kalanchoe tomentosa

## ‘Chocolate Soldier’

- Free plant
- Origin: Madagascar
- Min temp: to 25 deg F
- Forms small shrub
  - Stem diameter: to 3 in
  - Stem height: to 2 ft
- Propagated from seed, leaf cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria mystax



- **Free plant**
- **Origin: Mexico (central)**
- **Min temp: to 14 deg F**
- **Flowers rose-purple**
- **Solitary**
  - **Height: to 6 in**
  - **Diameter: to 4 in**
- **Propagated from seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Gasteria hybrid 'Silver Fuji'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- Grows slowly
  - Rosette diameter: to 4 in
  - Height: to 1 in
- May have a tint of purple
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Trichocereus terscheckii



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Grows up to 18 inches/year with water, fertilizer
- Forms numerous branches
  - Height: to 25 ft
  - Diameter: to 18 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Aloe variegata



- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Dorstenia foetida



- Free plant
- Origin: Arabia, Ethiopia, Kenya, Somalia, Yemen, Oman, Tanzania
- Min temp: protect from frost
- Seed pods open explosively when ripe and send seed flying up to 6 ft
- Forms small branching shrub
  - Diameter: to 8 in
  - Height: to 12 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

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- Doug Rowsell
  - Miles' to Go
- B & B Cactus Farm
- Bach's Greenhouse Cactus Nursery
  - Marcus White





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**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Echinocereus triglochidiatus



- Raffle plant
- Origin: Mexico, USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas)
- Min temp: to 14 deg F
- Forms cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Yucca baccata

- Raffle plant
- Origin: SW USA (Arizona, California, Utah, Texas); NW Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg
- May be solitary or clumped
  - Stem height: to 3 ft
  - Stem diameter: to 3 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Use well drained soil mix



# Echinocactus horizonthalonius

- Raffle plant
- Origin: USA (Arizona, New Mexico, Texas) ; Mexico (Nuevo Leon, San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 8 in
  - Diameter: to 8 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Yucca brevifolia



## Raffle plant

- Origin: USA (California, Arizona, Utah, Nevada)
- Min temp: to 14 deg F
- Aka 'Joshua Tree'
- Forms tree
  - Branch span: to 15 ft
  - Height: to 25 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave hybrid 'Sharkskin'

- Raffle plant
- Origin: Cultivar
- Min temp: to 14 deg F
- A asperima x ferdinand-regis
- Forms open rosette
  - Diameter: to 3 ft
  - Height: to 3 ft
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Coryphantha cornifera



- **Raffle plant**
- **Origin: Mexico (Queretaro, Hidalgo)**
- **Min temp: 14 deg F**
- **Usually solitary**
  - **Diameter: to 6 in**
  - **Height: to 6 in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus alamosanus

- Door prize
- Origin: Mexico (Sonora)
- Min temp: protect from frost in colder areas
- Species threatened in habitat
- Usually solitary
  - Height: to 3 ft
  - Diameter: to 14 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus gracilis



- Door prize
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 1 ft
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pachypodium saundersii

- Door prize
- Origin: South Africa
- Min temp: to 25 deg F
- Summer grower
- Forms low branching caudex
  - Diameter: to 18 in
  - Height: to 4 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave angustifolia 'Marginata'



- Door prize
- Origin: Mexico
- Min temp: to 14 deg F
- Forms rounded rosette atop a short trunk
  - Stem height: to 4 ft
  - Width: to 4 ft
- Full / filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use porous, well-drained soil

# Ferocactus hamatacanthus



- Door prize
- Origin: Texas, New Mexico, Mexico
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 10 in
  - Height: to 18 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia milii v splendens

- Door prize
- Origin: Madagascar
- Min temp: protect from frost
- Forms woody branching shrub
  - Height: to 5 ft
  - Diameter: to 3 ft
- Propagated from seed and cuttings
- Blooms most of the year
- Becomes dormant in summer and may loose leaves
- Filtered sun
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Mammillaria camptotricha cv marnier-lapostollei

- **Free plant**
- **Origin: Cultivar**
- **Min temp: to 14 deg F**
- **Forms large, flat clump of stems**
  - **Stem diameter: to 2 in**
  - **Clump height: to 4 in**
- **Full / Filtered sun**
- **Propagated from cuttings**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**



# Lobivia draxleriana



- **Free plant**
- **Origin: Bolivia, Argentina**
- **Min temp: to 14 deg F**
- **Found in higher Andes**
- **Forms flattened sphere**
- **Solitary, may form clumps**
  - **Height: to 6 in**
  - **Stem diameter: to 6 in**
- **Propagated from seed, offsets**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Senecio stapeliiformis

- Free plant
- Origin: South Africa (Eastern Cape)
- Min temp: protect from frost
- Forms cluster with erect stems that eventually recline
  - Stem height: to 10 in
  - Stem diameter: to ½ in
- Propagated from seed, rhizomes
- Filtered sun
- Well-drained soil





# Neoporteria huascensis

- Free plant
- Origin: Chile (Atacama)
- Min temp: to 14 deg F
- Occurs in coastal areas where little else grows
- Grows buried in ground – almost impossible to spot without flowers
  - Stem diameter: to 4 in
  - Stem height: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium cardenasianum

- Free plant
- Origin: Bolivia
- Min temp: give protection in colder areas
- Covered with strong twisted spines that often prevent flower from opening fully
- Usually solitary
  - Diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium neuhuberi



- Free plant
- Origin: Argentina (San Luis)
- Min temp: to 14 deg F
- Endangered in habitat
- Usually solitary, may cluster
  - Diameter: to 6 in
  - Height: to 6 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria hahniana

- **Free plant**
- **Origin: Mexico (Guanajuato, San Luis Potosi, Queretero)**
- **Min temp: to 14 deg F**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Stem height: to 4 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Well-drained soil**



# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: give protection in colder areas
- Forms solitary columnar plant, may pup with age
  - Stem diameter: to 4 in
  - Stem height: to 10 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thelocactus macdowellii

- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Usually solitary, may cluster in time
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave nickelsiae



- Free plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Grows slowly
- Forms open rosette
  - Diameter: to 18 in
  - Height: to 18 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Chamaecereus sylvestrii

## ( 'Peanut Cactus' )



- Free plant
- Origin: Unknown (has not been found in the wild)
- Min temp: to 14 deg F
- Forms clumps
  - Stem diameter: to 1/2 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Sempervivum arachnoideum

- Free plant
- Origin: Europe (Apennine, Alps, Carpathian mountains)
- Min temp: to 14 deg F
- Forms prolific clusters
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria dixanthocentron

- Free plant
- Origin: Mexico (Oaxaca, Pueblo)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Stem diameter: to 3 in
  - Height: to 11 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus herrerae

## 'Twisted Barrel'



- Free plant
- Origin: Mexico (Sonora, Sinaloa, Durango)
- Min temp: to 14 deg F
- Ribs form deep spirals
- Usually solitary
  - Height: to 5 ft
  - Diameter: to 18 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Rebutia minuscula ssp violaciflora

- Free plant
- Origin: Argentina (Salta)
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 2 in
  - Stem height: to 1 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Glottiphyllum depressum



- Free plant
- Origin: South Africa (Little Karoo, Western Cape)
- Min temp: protect from frost
- Forms clusters close to the ground
  - Cluster diameter: to 12 in
  - Stem length: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Well-drained soil

# Parodia sanguiniflora



## Free plant

- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Forms solitary sphere
  - Height: to 5 in
  - Diameter: to 4 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Ferocactus latispinus



- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia tiegeliana v dimorphypetalia

- Free plant
- Origin: Bolivia, Argentina
- Min temp: to 14 deg F
- Forms small, flat sphere
  - Stem diameter: to 6 in
  - Stem height: to 4 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus agnetae



- Free plant
- Origin: Uruguay
- Min temp: to 14 deg F
- Forms small sphere
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Propagated from seed
- Filtered sun
- Well-drained soil

# Aloinopsis species



- **Free plant**
- **Origin: South Africa**
- **Min temp: protect from frost**
- **Forms dense mat of clustered rosettes**
  - **Stem width: to 1/2 in**
  - **Stem height: to 3 in**
- **Propagated from cuttings, seeds**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Thelocactus macdowellii

- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Usually solitary, may cluster in time
  - Stem diameter: to 4 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus weedinii (Davis Mountains)

## Free plant

- Origin: Texas (Trans-Pecos)
- Min temp: to 14 deg F
- Usually solitary, may form clumps
  - Height: to 8 in
  - Stem diameter: to 2 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Escobaria vivipara ssp bisbeeana



- Free plant
- Origin: Arizona, New Mexico
- Min temp: to 14 deg F
- Usually solitary but may form clumps
  - Height: to 5 in
  - Diameter: to 3 in
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Aloe variegata



- **Free plant**
- **Origin: South Africa, Namibia**
- **Min temp: to 20 deg F**
  - Survives in Vail underneath mesquite trees
- **Forms rosettes**
  - Stem width: to 9 in
  - Stem height: to 12 in
- **Propagated from seeds, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

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- Bach's Greenhouse Cactus Nursery
- Doug Rowsell







# Tucson Cactus and Succulent Society April 2016

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mangave hybrid: 'Bloodspot'

- Raffle plant
- Origin: Cultivar
- Min temp: 22-25 deg F
- *Agave macroacantha* x *Manfreda maculosa*?
- Grows slowly
- Usually solitary, forms compact upright rosette
  - Height: to 12 in
  - Diameter: to 15 in
- May form offsets
- Full / Filtered sun
- Well-drained soil



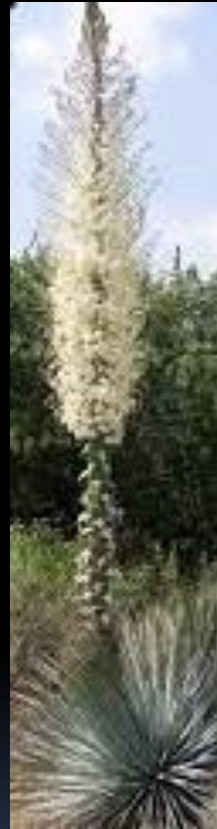
# Grusonia invicta



- Raffle plant
- Origin: Mexico (Central Baja California)
- Min temp: tolerates occasional light frost
- Forms a low wide mat
  - Height: to 12 in
  - Mat diameter: to 5 ft
- Propagated from seeds or cuttings
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Yucca whipplei

- Raffle plant
- Origin: USA (California)
- Min temp: to 10 deg F
- Plant dies after blooming but is often replaced by offsets
- Aka "Hesperoyucca"
- Forms dense rosette
  - Height: to 4 ft
  - Width: to 5 ft
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium cardenasianum



- Raffle plant
- Origin: Bolivia (Tarija)
- Min temp: to 14 deg F
- Grows slowly
- Usually solitary, forms heavy twisted spines
  - Diameter: to 7 in
  - Height: to 4 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Fouquieria columnaris 'Boojum'

- Raffle plant
- Origin: Mexico (Baja California, Sonora)
- Min temp: to 14 deg F
- Has leaves for short periods of time during year
- In same family as ocotillo
- Forms tall slender spiny tree that may branch at top
  - Height: to 40 ft
  - Stem diameter: to 1 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Echinocereus stramineus



- Raffle plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Aka 'Strawberry Hedgehog'
- Forms large compact colonies
- May have up to 200 stems
  - Stem diameter: to 4 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus emoryi ssp covillei



- Door prize
- Origin: Mexico (Sonora); Arizona (Yuma, Maricopa Co)
- Min temp: to 14 deg F
- Usually solitary, forms heavy spines
  - Diameter: to 18 in
  - Height: to 2 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echeveria subrigida

- Door prize
- Origin: Mexico (San Luis Potosi)
- Min temp: to 25 deg F
- Brighter sunlight encourages colorful margins
- One of the largest echeverias
  - Diameter: to 18 in
  - Height: to 9 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# Ferocactus pottsii v alamosanus

- Door prize
- Origin: Mexico (Sonora)
- Min temp: tolerates occasional mild frost
- Forms small barrel
  - Height: to 12 in
  - Diameter: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia milii hybrid



- Door prize
- Origin: Madagascar
- Min temp: protect from frost
- Tolerates wide variety of light and watering conditions
- Forms small woody shrub with abundant flowers thru out year
  - Diameter : to 24 in
  - Height: to 15 in
- Good windowsill plant
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria muehlenpfordtii

- Door prize
- Origin: Mexico (Guanajuato, Queretaro, San Luis Potosi)
- Min temp: to 14 deg F
- Young plants solitary
- Stem divides dichotomously to form mound with many heads
  - Stem height: to 6 in
  - Stem diameter: to 6 in
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Cotyledon ladismithiensis



- Door prize
- Origin: South Africa (Little Karoo, Cape Province)
- Min temp: protect from frost
- Branches profusely
- Forms dwarf shrub
  - Stem diameter: to 2 in
  - Height: to 8 in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**



# Gymnocalycium rotundulum



- Free plant
- Origin: Brazil, Bolivia, Paraguay
- Min temp: Give some protection in colder areas
- Usually solitary
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Kalanchoe luciae

## Free plant

- Origin: South Africa
- Min temp: 25-30 deg F
- Forms floppy rosette-clusters on low stems
  - Leaf size: to 2 to 4 in
  - Height: to 12 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Escobaria hesteri



- Free plant
- Origin: Texas (Marathon Basin)
- Min temp: to 14 deg F
- Rare
- Very slow growing
- Dwarf, forms clusters with age
  - Stem height: to 1 ½ in
  - Stem diameter: to 1 ½ in
- Propagated from seed, cuttings, grafts
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Adromischus maculatus

## Free plant

- Origin: South Africa (Cape Province-Langeberg Mountains)
- Min temp: 25-30 deg F
- Forms low mat
  - Leaf size: to 2 to 4 in
  - Height: to 4 in
- Develops caudex with age
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria zielmanniana (white flowered)



- Free plant
- Origin: Mexico (Guanajuato)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Sempervivum species

## Free plant

- Origin: Europe (cultivar)
- Min temp: to 14 deg F
- Forms low clump
- Tiny new plants appear in a circle around the mother in the middle
  - Rosette size: to 2 to 4 in
  - Height: to 4 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria melaleuca



- Free plant
- Origin: Mexico (Tamaulipas, Palmillas)
- Min temp: to 14 deg F
- Forms clusters with age
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echeveria colorata

## Free plant

- Origin: Mexico (Jalisco)
- Min temp: protect from frost
- Forms globular rosette
  - Diameter: to 8 in
  - Height: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria boolii



- Free plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost
- May form cluster with age
  - Stem diameter: to 1 in
  - Stem height: to 1 1/2 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Gymnocalycium species (related to bruchii??)



- Free plant
- Origin: South America
- Min temp: Give some protection in colder areas
- Forms clusters with age
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Agave parryi v couesii



- **Free plant**
- **Origin: Arizona (Coconino, Yavapai, Gila counties)**
- **Min temp: to 14 deg F**
- **Forms large clusters**
  - **Rosette diameter: to 24 in**
  - **Rosette height: to 18 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Ferocactus latispinus

- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 14 in**
  - **Stem height: to 12 in**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Marlothiella uniondelensis



- **Free plant**
- **Origin: South Africa (Western Cape, Little Karoo)**
- **Min temp: protect from frost**
- **Grows in clusters, eventually forming caudex**
  - **Cluster diameter: to 3 in**
  - **Cluster height: to 6 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Mammillaria hahniana

- Free plant
- Origin: Mexico (Central)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloe microstigma x ferox



## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- Forms low dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ruschia crassa



- **Free plant**
- **Origin: South Africa**
- **Min temp: to 25 deg F**
- **Forms branching clusters**
  - **Stem diameter: to 1/2 in**
  - **Stem height: to 15 in**
- **Propagated from seed, woody stem cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Lithops (assorted species)



## Free plant

- Origin: South Africa
- Min temp: protect from frost
- Flower - white or yellow
- Forms small clusters
  - Stem diameter: to 2 in
  - Height: to 1 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria plumosa

## Free plant

- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Usually forms clusters
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Yucca rigida



- **Free plant**
- **Origin: Mexico (Chihuahua, Durango, Zacatecas)**
- **Min temp: to 14 deg F**
- **Has minimal branching near top**
- **Slow growing, tree-like yucca**
  - **Height: to 12 ft**
  - **Diameter: to 5 ft**
- **Propagated from seeds**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Mammillaria zielmanniana

- Free plant
- Origin: Mexico (Guanajuato)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Thelocactus bicolor v flavidispinus

- Free plant
- Origin: Texas (Marathon Basin)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 3 in
  - Stem height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria canelensis

- Free plant
- Origin: Mexico (Chihuahua)
- Min temp: protect from frost in colder areas of town
- Usually solitary
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Euphorbia species



- Free plant
- Origin: Eastern Africa
- Protect from frost
- Forms small shrub
  - Stem height: to 12 in
  - Stem diameter: to ½ in
- Propagated from offsets
- Full / Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Cheiridopsis aurea

## Free plant

- Origin: South Africa (Little Namaqualand)
- Min temp: will tolerate light frost
- Forms low dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





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- Bach's Greenhouse Cactus Nursery / Dan and Diane Bach
  - Plants for the Southwest / Gene Joseph
  - Living Stones Nursery / Jane Evans





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DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

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**Six tickets for \$5**

# Epidendrum (terrestrial orchid)

- Raffle plant
- Origin: Tropical central America
- Min temp: protect from frost
- Grows from pseudo-bulbs
- Forms cluster
  - Height: to 15 in
  - Diameter: to 13 in
- Use loose potting mixture of tree bark chips and peat moss
- May take slightly more water than a succulent
- Filtered sun
- Well-drained soil



# Oreocereus ritteri



- Raffle plant
- Origin: Peru (Ayacucho)
- Min temp: to 14 deg F
- Branches at base to form clumps
  - Stem diameter: to 4
  - Stem height: to 5 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gasteria armstrongii (variegated hybrid)

- Raffle plant
- Origin: Cultivar (Japan)
- Min temp: protect from frost
- Currently rare
- Forms offsets
  - Height: to 6 in
  - Width: to 10 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum ornatum



- Raffle plant
- Origin: Mexico (Hidalgo, Queretaro, Guanajuato)
- Min temp: to 14 deg F
- Forms solitary short column
  - Diameter: to 1 ft
  - Height: to 3 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Aloe hybrid

## 'Sean's Red'

- Raffle plant
- Origin: Cultivar (Kelly Griffin)
- Min temp: protect from frost
- Forms large cluster
  - Diameter: to 24 in
  - Height: to 24 in
- Full / Filtered sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Ferocactus histrix

- Raffle plant
- Origin: Mexico (widespread in central, eastern Mexico)
- Min temp: protect from frost in colder areas
- Used in candy industry
- Grows slowly
- Forms solitary barrel
  - Height: to 3 ft
  - Stem diameter: to 2 ft
- Propagated from seed
- Full sun
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Pachypodium lamerei



- Door prize
- Origin: Madagascar
- Min temp: protect from frost
- Forms semi-deciduous stemmed tree with a stout trunk
  - Trunk diameter: to 1 ft
  - Height: to 15 ft
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria crassimammillis

- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 14 deg F
- Forms flattened low clump
  - Diameter: to 20 in
  - Height: to 12
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# Haworthia radula variegata



- Door prize
- Origin: Cultivar
- Min temp: tolerates occasional mild frost
- Forms open rosette
  - Height: to 12 in
  - Diameter: to 12 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Sulcorebutia menesesii



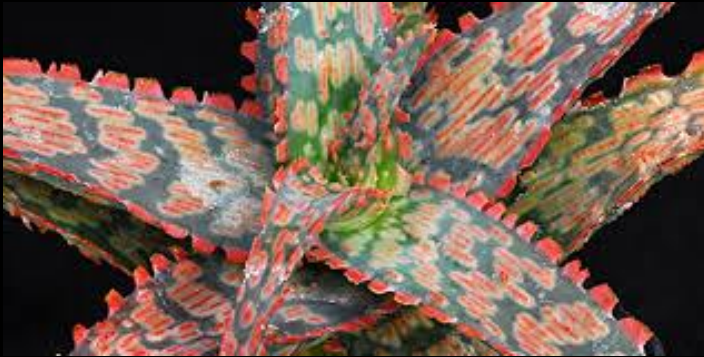
- Door prize
- Origin: Bolivia
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter : to 3 in
  - Height: to 5 in
- Good windowsill plant
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thelocactus conothelos ssp flavus

- Door prize
- Origin: Mexico (Huizache, San Luis Potosi)
- Min temp: to 14 deg F
- May form small clumps in time:
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated from seed
- Full sun
- Well-drained soil



# Aloe hybrid SRAM #11



- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms star-shaped rosette
  - Stem diameter : to 7 in
  - Height: to 7 in
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Haworthia retusa form geraldii



- **Free plant**
- **Origin: South Africa (Cape Province)**
- **Min temp: protect from frost**
- **Has fenestrate (window-like) leaves**
  - **In habitat grows just above surface**
- **Forms shiny star-shaped rosette**
  - **Stem diameter: to 2 in**
  - **Height: to 2 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Gymnocalycium rotundulum



- Free plant
- Origin: Brazil, Bolivia, Paraguay
- Min temp: Give some protection in colder areas
- Usually solitary
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Aloe 'Pepe'

(*A descoingsii* x *A haworthioides*)

## Free plant

- Origin: Cultivar (UCSB)
  - Native to Madagascar
- Offsets readily
- Forms dwarf domed clump
  - Rosette diameter: to 3 in
  - Height: to 3 in
- Propagated from seed, offsets
- Ideal windowsill plant
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Escobaria hesteri



- Free plant
- Origin: Texas (Marathon Basin)
- Min temp: to 14 deg F
- Rare
- Very slow growing
- Dwarf, forms clusters with age
  - Stem height: to 1 ½ in
  - Stem diameter: to 1 ½ in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Adromischus maculatus

## Free plant

- Origin: South Africa (Cape Province-Langeberg Mountains)
- Min temp: 25-30 deg F
- Forms low mat
  - Leaf size: to 2 to 4 in
  - Height: to 4 in
- Develops caudex with age
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria zielmanniana (white flowered)



- Free plant
- Origin: Mexico (Guanajuato)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia 'Manda's Hybrid'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- May turn red with more sunlight
- Forms rosette that offsets readily
  - Rosette size: to 2 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria melaleuca



- Free plant
- Origin: Mexico (Tamaulipas, Palmillas)
- Min temp: to 14 deg F
- Forms clusters with age
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Echeveria colorata

## Free plant

- Origin: Mexico (Jalisco)
- Min temp: protect from frost
- Forms globular rosette
  - Diameter: to 8 in
  - Height: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria hybrid 'Silver Fuji'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- Grows slowly
  - Rosette diameter: to 4 in
  - Height: to 1 in
- May have a tint of purple
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria boolii



- Free plant
- Origin: Mexico (Sonora)
- Min temp: protect from frost
- May form cluster with age
  - Stem diameter: to 1 in
  - Stem height: to 1 1/2 in
- Full sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia limifolia

## Free plant

- Origin: South Africa
- Min temp: protect from frost
- Forms spiraling rosettes that eventually create a mat
  - Diameter: to 3 in
  - Height: to 2 in
- May have a tint of purple
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia truncata x maughanii

## Free plant

- Origin: South Africa (Western Cape, Little Karoo)
- Min temp: protect from frost
- Grows as rosette – in time forms clump
  - Rosette diameter: to 4 in
  - Height: to 1 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium species (related to bruchii??)



- Free plant
- Origin: South America
- Min temp: Give some protection in colder areas
- Forms clusters with age
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Haworthia emelyae v multifolia



- Free plant
- Origin: South Africa(Western Cape)
- Min temp: tolerates mild frost
- Gets reddish tinge with more sunlight
- Forms large clusters
  - Rosette diameter: to 2 in
  - Rosette height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Marlothiella uniondelensis



- **Free plant**
- **Origin: South Africa (Western Cape, Little Karoo)**
- **Min temp: protect from frost**
- **Grows in clusters, eventually forming caudex**
  - **Cluster diameter: to 3 in**
  - **Cluster height: to 6 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia retusa v acuminata

- Free plant
- Origin: South Africa (Southern Cape)
- Min temp: protect from frost
- May form clusters
  - Rosette diameter: to 3 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria hahniana

- Free plant
- Origin: Mexico (Central)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria 'Little Warty'

(*G batesiana* x *G maculata*)



- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Grows slowly
- Forms clusters
  - Rosette diameter: to 2 in
  - Rosette height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria zielmanniana

- Free plant
- Origin: Mexico (Guanajuato)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Thelocactus bicolor v schottii

- Free plant
- Origin: Texas (Trans Pecos)
- Min temp: to 14 deg F
- Prolific bloomer
- Usually solitary
  - Stem diameter: to 3 in
  - Stem height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria 'Sakura Fuji'

(*G obtusa* forma *variegata*)

- Free plant
- Origin: Cultivar
- Min temp: protect from frost
- Usually solitary
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Good windowsill plant
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil



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  - Miles' To Go / Miles Anderson
  - Plants for the Southwest / Gene Joseph







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DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

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**Six tickets for \$5**

# Echinocereus stramineus



- Raffle plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Aka 'Strawberry Hedgehog'
- Forms large compact colonies
- May have up to 200 stems
  - Stem diameter: to 4 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave scabra hybrid

- Raffle plant
- Origin: Mexico
- Min temp: to 14 deg F
- Natural hybrid
  - Ferdinand-regis X scabra
- Forms branching clump
  - Height: to 2 ft
  - Mound diameter: to 3 ft
- Propagated from seed, offsets
- Full sun
- Well-drained soil



# Stenocactus coptonogonus

- **Raffle plant**
- **Origin: Mexico (Hidalgo, San Luis Potosi)**
- **Min temp: protect from frost in colder areas**
- **Usually solitary**
  - **Height: to 4 in**
  - **Diameter: to 4 in**
- **Somewhat resembles a Ferocactus**
- **Propagated by seed**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Gasteria batesiana

## ‘Barberton Form’



- Raffle plant
- Origin: Namibia, South Africa (Limpopo)
- Min temp: protect from frost
- Pollinated by sunbirds
- Cliff dweller in habitat
- Branches from base; forms tall rosettes
  - Leaf width: to 1 in
  - Leaf length: to 20 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Oreocereus celsianus



- Raffle plant
- Origin: Argentina, Bolivia, Peru
- Min temp: may need some protection in colder areas
- Pollinated by hummingbirds
- Branches at base to form clumps
  - Stem diameter: to 4 in
  - Stem height: to 10 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave ferdinandi-regis

- Raffle plant
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 10 deg F
- Grows as open rosette
- Solitary, slow growing
  - Height: to 18 in
  - Width: to 18 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# DOOR PRIZES

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# Haworthia radula variegata



- Door prize
- Origin: Cultivar
- Min temp: tolerates occasional mild frost
- Forms open rosette
  - Height: to 12 in
  - Diameter: to 12 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria rubrograndis

- Door prize
- Origin: Mexico (Coahuila, Durango, Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 7 in
  - Height: to 5 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use porous, well-drained soil



# Gasteria 'Sakura Fuji'



- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms open rosette
  - Height: to 8 in
  - Diameter: to 9 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus gracilis

## ssp gracilis



- Door prize
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter : to 12 in
  - Height: to 4 ft
- Aka "Fire Barrel"
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe 'Raspberry Ruffles'

- Door prize
- Origin: Cultivar (Kelly Griffin)
- Min temp: protect from frost
- Forms rosette
  - Height: to 8 in
  - Diameter: to 8 in
- Propagated from seed
- Filtered sun
- Well-drained soil



# Weingartia lanata



- Door prize
- Origin: Bolivia, Peru (Andes)
- Min temp: give some frost protection in colder areas
- Usually solitary
  - Stem diameter : to 4 in
  - Height: to 8 in
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# FREE PLANTS

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**Please be courteous**



# Haworthia retusa form geraldii



- **Free plant**
- **Origin: South Africa (Cape Province)**
- **Min temp: protect from frost**
- **Has fenestrate (window-like) leaves**
  - **In habitat grows just above surface**
- **Forms shiny star-shaped rosette**
  - **Stem diameter: to 2 in**
  - **Height: to 2 in**
- **Propagated from seed, cuttings**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Euphorbia symmetrica



- Free plant
- Origin: South Africa (Cape Province)
- Min temp: Give some protection in colder areas
- Usually solitary
- Grows as a flattened sphere
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Echinocereus rigidissimus ssp rubrispinus

## Free plant

- Origin: Mexico (Sonora, Chihuahua)
- Min temp: to 14 deg F
- Aka 'Ruby Rainbow'
- Usually solitary
  - Stem diameter: to 2 in
  - Height: to 8 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Pleiospilos nelli



- Free plant
- Origin: South Africa (Little Karoo, Great Karoo)
- Min temp: protect from frost
- Forms small clusters
  - Stem diameter: to 3 in
  - Clump height: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Mammillaria spinosissima



- Free plant
- Origin: Mexico (Guerrero, Morelos)
- Min temp: protect from frost in colder areas
- May form clusters with age
  - Stem diameter: to 4 in
  - Clump height: to 12 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Haworthia mirabilis var calcarea

## Free plant

- Origin: South Africa (Western Cape Province)
- Min temp: protect from frost
- Forms tough spiky rosette
  - Diameter: to 8 in
  - Height: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Cheiridopsis purpurea

## Free plant

- Origin: South Africa (Richtersveld)
- Min temp: protect from frost
- Eventually forms clumps
  - Rosette diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum myriostigma 'strongylongonum'



- Free plant
- Origin: Mexico (San Luis Potosi)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 6 in
  - Stem height: to 15 in
- Full / Filtered sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Titanopsis hugo-schlechteri

## Free plant

- Origin: Namibia, South Africa (Great Namaqualand)
- Min temp: 14 deg F
- Warts and bumps on plant serve as camouflage in limestone habitat
- Forms multi-headed rosettes
  - Diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange/pink
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Leuchtenbergia principis

## Free plant

- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 1 ft
  - Height: to 1 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Faucaria candida



- Free plant
- Origin: South Africa (Eastern Cape Province)
- Min temp: to 14 deg
- Forms clusters with age
  - Stem height: to 3 in
  - Stem diameter: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil

# Haworthia emelyae v multifolia



- Free plant
- Origin: South Africa(Western Cape)
- Min temp: tolerates mild frost
- Gets reddish tinge with more sunlight
- Forms large clusters
  - Rosette diameter: to 2 in
  - Rosette height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Notocactus (Wigginsia) leprosorum



- Free plant
- Origin: Brazil (Rio Grande do Sul)
- Min temp: to 14 deg
- Usually solitary
  - Diameter: to 6 in
  - Height: to 5 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia 'Manda's Hybrid'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- May turn red with more sunlight
- Forms rosette that offsets readily
  - Rosette size: to 2 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria glomerata



- **Free plant**
- **Origin: South Africa (Southeastern Cape Province)**
- **Min temp: protect from frost**
- **Habitat: sheer vertical rocky ledges**
- **Forms rounded clusters**
  - **Cluster diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia retusa v acuminata

- Free plant
- Origin: South Africa (Southern Cape)
- Min temp: protect from frost
- May form clusters
  - Rosette diameter: to 3 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria hahniana

- Free plant
- Origin: Mexico (Central)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloinopsis rubrolineata



- **Free plant**
- **Origin: South Africa**
- **Min temp: to 14 deg F**
- **Grows a caudex in time**
- **Forms low mats**
  - **Rosette diameter: to 3 in**
  - **Height with caudex: to 4 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Titanopsis aff calcareum

- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Habitat: Limestone outcrops
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Mammillaria bombycina

- Free plant
- Origin: Mexico (Jalisco, Aguascalientes)
- Min temp: needs some protection in colder areas
- May form large clustering mounds
  - Stem diameter: to 3 in
  - Stem height: to 3 in
  - Mound diameter: to 3 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia magnifica var major



- **Free plant**
- **Origin: South Africa (Western Cape, Little Karoo)**
- **Min temp: protect from frost**
- **Stays small**
- **Usually solitary; rarely offsets**
  - **Diameter: to 3 in**
  - **Height: to 2 in**
- **Propagated from seed**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Pleiospilos bolusii

- Free plant
- Origin: South Africa
- Min temp: give some protection in colder areas
- Usually solitary
  - Stem height: to 3 in
  - Stem diameter: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Echinocereus triglochidiatus var gonacanthus



- Free plant
- Origin: New Mexico (White Sands)
- Min temp: to 14 deg F
- Forms clumps
  - Stem diameter: to 3 in
  - Stem height: to 15 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Notocactus buiningii

- Free plant
- Origin: Brazil, Uruguay
- Min temp: can tolerate occasional frost in warmer areas of town
- Usually solitary
  - Stem diameter: to 5 in
  - Stem height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





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# RAFFLE PLANTS

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**Six tickets for \$5**

# Manfreda maculosa hybrid 'Silver Leopard'

- Raffle plant
- Origin: Texas (Karnes Co), Mexico (Coahuila, Nuevo Leon, Tamaulipas)
- Min temp: give protection in colder areas
- Aka 'Spice Lily', 'False Agave', 'False Aloe'
- Forms clusters
  - Height: to 18 in
  - Diameter: to 18 in
- Propagated from offsets
- Full / Filtered sun
- Well-drained soil



# Ferocactus emoryi ssp rectispinus



- **Raffle plant**
- **Origin: Mexico (Baja California)**
- **Min temp: to 14 deg F**
- **Often found near coast**
- **Solitary unless growing tip injured**
  - **Height : to 4 ft**
  - **Diameter: to 18 in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Oeceoclades calcarata

- Raffle plant
- Origin: Madagascar
- Min temp: protect from frost
- Orchid family (rare)
  - Will grow in dry greenhouse with other succulents
- Small green flowers with purple veins
- Lithophyte (grows on rocks):
  - Height: to 4 ft
  - Diameter: to 2 ft
- Propagated from seeds and bulbs
- Filtered sun
- Likes water
- Use rocky soil mix



# Echinocereus dasyacanthus



- Raffle plant
- Origin: USA (SW Texas, New Mexico, Oklahoma); Mexico (Chihuahua)
- Min temp: to 14 deg F
- Aka 'Texas Rainbow'
- Forms large compact colonies
  - Stem diameter: to 4 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave titanota 'Blue'

- Raffle plant
- Origin: Mexico (Oaxaca)
- Min temp: protect from frost
- Mostly solitary, may form offsets in time
  - Diameter: to 2 ft
  - Height: to 2 ft
- Grows slowly
- Propagated from seeds, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Stetsonia coryne

- **Raffle plant**
- **Origin: Argentina, Bolivia**
- **Min temp: to 14 deg F**
- **Forms large tree-like columnar cactus with many branches**
  - **Height: to 15 ft**
  - **Diameter: to 10 ft**
- **Aka 'Toothpick Cactus'**
- **Propagated by seed, cuttings**
  - **Keep cuttings very dry to root**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Lophocereus schottii monstrose 'Obesa'



- Door prize
- Origin: Mexico (Sonora, Baja California)
- Min temp: to 14 deg G
- Grows as tall, irregularly shaped pole
  - Diameter: to 6 in
  - Height: to 10 ft
- Naturally occurring hybrid that rarely flowers
- Propagated from cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gasteria armstrongii

- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms rosettes
  - Stem width: to 1 in
  - Length: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



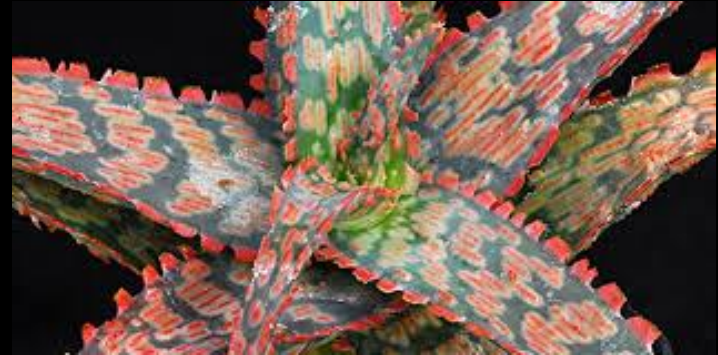
# Ferocactus hystrix



- Door prize
- Origin: Mexico (central)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Threatened in habitat
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid SRAM #11

- Door prize
- Origin: Cultivar
- Min temp: protect from frost
- Forms star-shaped rosette
  - Stem diameter : to 7 in
  - Height: to 7 in
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus hamatacanthus



- Door Prize
- Origin: New Mexico, SW Texas, Mexico (Chihuahua, Coahuila)
- Min temp: to 14 deg F
- Usually solitary, may cluster at base
  - Diameter: to 12 in
  - Height: to 24 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe hybrid

## 'Sean's Red'

- Door Prize
- Origin: Cultivar (Kelly Griffin)
- Min temp: protect from frost
- Forms large cluster
  - Diameter: to 24 in
  - Height: to 24 in
- Full / Filtered sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Haworthia emelyae v multifolia



- Free plant
- Origin: South Africa(Western Cape)
- Min temp: tolerates mild frost
- Gets reddish tinge with more sunlight
- Forms large clusters
  - Rosette diameter: to 2 in
  - Rosette height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria guelzowiana



- Free plant
- Origin: Mexico (Durango)
- Min temp: to 14 deg F
- Has large flower for a mamm
- Forms small clusters
  - Stem diameter: to 2 in
  - Height: to 3 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia magnifica var major



- Free plant
- Origin: South Africa (Western Cape, Little Karoo)
- Min temp: protect from frost
- Stays small
- Usually solitary; rarely offsets
  - Diameter: to 3 in
  - Height: to 2 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echinocereus nicholii



- Free plant
- Origin: USA ( Arizona), Mexico (Sonora)
- Min temp: to 14 deg F
- Forms large, dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 15 in
- Check TCSS field guide pp 98-99
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Crassula muscosa

- Free plant
- Origin: South Africa, Namibia, Lesotho
- Min temp: Give some protection in colder areas
- Aka 'Watch Chain Plant'
- Forms dense cluster
  - Stem height: to 6 in
  - Stem diameter: to 1/4 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloinopsis rubrolineata



- **Free plant**
- **Origin: South Africa**
- **Min temp: to 14 deg F**
- **Grows a caudex in time**
- **Forms low mats**
  - **Rosette diameter: to 3 in**
  - **Height with caudex: to 4 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Echinocereus triglochidiatus



- Free plant
- Origin: USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Cheiridopsis purpurea

## Free plant

- Origin: South Africa (Richtersveld)
- Min temp: protect from frost
- Eventually forms clumps
  - Rosette diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus bicolor

- Free plant
- Origin: Texas (Trans Pecos)
- Min temp: to 14 deg F
- Prolific bloomer
- Usually solitary
  - Stem diameter: to 3 in
  - Stem height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pleiospilos nelli



- Free plant
- Origin: South Africa (Little Karoo, Great Karoo)
- Min temp: protect from frost
- Forms small clusters
  - Stem diameter: to 3 in
  - Clump height: to 3 in
- Full / Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Ferocactus latispinus

- Free plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pleiospilos bolusii

- Free plant
- Origin: South Africa
- Min temp: give some protection in colder areas
- Usually solitary
  - Stem height: to 3 in
  - Stem diameter: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Sempervivem sp

- Free plant
- Origin: European mountains
- Min temp: to 20 deg F
- Aka 'House Leek,' 'Hen and Chicks'
- Forms dense cluster with lateral offsets
  - Stem height: to 1 in
  - Stem diameter: to 2 in
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil





# Thelocactus hexadrophorus



- **Free plant**
- **Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)**
- **Min temp: to 14 deg F**
- **Usually solitary**
  - **Stem diameter: to 8 in**
  - **Stem height: to 3 in**
- **Full sun**
- **Propagated from seed**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Gasteria glomerata



- **Free plant**
- **Origin: South Africa (Southeastern Cape Province)**
- **Min temp: protect from frost**
- **Habitat: sheer vertical rocky ledges**
- **Forms rounded clusters**
  - **Cluster diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Mammilloidya candida

- Free plant
- Origin: Mexico (Coahuila, Guanajuato, Nuevo Leon, San Luis Potosi, Tamaulipas)
- Min temp: to 14 deg F
- Aka 'Snowball Cactus'
- Forms small clusters
  - Stem diameter: to 2 in
  - Stem height: to 3 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia 'Manda's Hybrid'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- May turn red with more sunlight
- Forms rosette that offsets readily
  - Rosette size: to 2 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Titanopsis aff calcareum

- **Free plant**
- **Origin: South Africa (Bushmanland, Upper Karoo)**
- **Min temp: to 14 deg F**
- **Habitat: Limestone outcrops**
- **Forms clusters**
  - **Stem diameter: to 3 in**
  - **Clump height: to 5 in**
- **Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**



# Haworthia mirabilis var calcarea

## Free plant

- Origin: South Africa (Western Cape Province)
- Min temp: protect from frost
- Forms tough spiky rosette
  - Diameter: to 8 in
  - Height: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thank You To Our Plant Suppliers This Month:

- Bach's Cactus Nursery / Dan and Diane Bach
  - Miles' To Go / Miles Anderson





# Tucson Cactus and Succulent Society August 2016

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**



# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mangave hybrid

## Manfreda x Agave

- Raffle plant
- Origin: Cultivar
- Min temp: give protection in colder areas
- Has faster growth rate than most agaves
- Usually single
  - Height: to 12 in
  - Diameter: to 18 in
- Propagated from ??
- Full / filtered sun
- Well-drained soil



# Ariocarpus bravoanus



- **Raffle plant**
- **Origin: Mexico (San Luis Potosi)**
- **Min temp: give some protection in colder areas**
- **Rare – Endangered in habitat**
- **Grows slowly**
- **Usually forms solitary rosette**
  - **Height : to 2 in**
  - **Diameter: to 2 ½ in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Cissus trifoliata

- **Raffle plant**
- **Origin: Southern United States (includes Arizona)**
- **Min temp: may need protection in hard frost**
- **Aka 'Arizona Grape Ivy'**
- **Herbaceous vine that forms large woody base**
  - **Vine length: to 12 ft**
  - **Leaf size: 2 x 3 in**
- **Propagated from seed, woody base**
- **Filtered sun**
- **Medium water use**
- **Use well drained soil mix**



# Coryphantha macromeris



- Raffle plant
- Origin: USA (SW Texas, New Mexico); Mexico (Chihuahua, Coahuila, Durango, Zacatecas)
- Min temp: to 14 deg F
- Has deep, massive taproot
- Branches profusely, forms low mound
  - Stem diameter: to 4 in
  - Stem height: to 6 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave toumeyana v bella

- Raffle plant
- Origin: USA (Arizona)
- Min temp: to 14 deg F
- TCSS field guide pp 238-239
- Forms dense rosette that eventually offsets
  - Diameter: to 8 in
  - Height: to 8 in
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus glaucescens

- Raffle plant
- Origin: Mexico (Hidalgo)
- Min temp: give protection in colder areas
- Habitat: juniper woodland
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 18 in
- Has white fruit
- Propagated by seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Denmoza rhodacantha



- Door prize
- Origin: Argentina (Mendoza—Salta)
- Min temp: to 14 deg F
- Grows slowly, eventually forms columnar cactus
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave ferdinandi-regis

- Door prize
- Origin: Mexico (Coahuila, Durango, Nuevo Leon)
- Min temp: to 14 deg F
- Forms rosette
  - Height: to 18 in
  - Diameter: to 18 in
- Grows slowly
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus herrerae



- Door prize
- Origin: Mexico (Sinaloa, Sonora)
- Min temp: protect from frost in colder areas
- Usually solitary
  - Diameter: to 2 ft
  - Height: to 3 ft
- Ribs occasionally grow in spiral pattern as cactus matures
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Aloe 'Raspberry Ruffles'

- Door prize
- Origin: Cultivar (Kelly Griffin)
- Min temp: protect from frost
- Forms rosette
  - Height: to 8 in
  - Diameter: to 8 in
- Propagated from seed
- Filtered sun
- Well-drained soil



# Echinocereus subinermis var aculeatus



- Door Prize
- Origin: Mexico (Chihuahua, Sinaloa, Sonora)
- Min temp: protect from frost
- Usually solitary, may cluster
  - Diameter: to 8 in
  - Height: to 24 in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave vilmoriniana variegata

- Door Prize
- Origin: Mexico
- Min temp: to 20 deg F
- Rare form of Octopus Agave
- Usually solitary
  - Diameter: to 3 ft
  - Height: to 3 ft
- Full / filtered sun
- Propagated from bulbils produced within inflorescence
- Water when dry during warm weather
- Use highly porous, well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Haworthia emelyae v multifolia



- Free plant
- Origin: South Africa(Western Cape)
- Min temp: tolerates mild frost
- Gets reddish tinge with more sunlight
- Forms large clusters
  - Rosette diameter: to 2 in
  - Rosette height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus wislizeni f flavispina



- Free plant
- Origin: Arizona (Cultivar by Chris Monrad)
- Min temp: to 14 deg F
- Yellow-spine form of Fishhook Barrel (common barrel in Tucson)
- Usually solitary
  - Diameter: to 18 in
  - Height: to 3 ft
- Propagated from seed
- Full
- Water when dry during warm weather
- Well-drained soil

# Fouquieria burragei



- Free plant
- Origin: Mexico (Rare, restricted to southern portion of Baja California)
- Min temp: survives light freezes
- Bushier than splendens (common ocotillo)
- Forms large base
  - Base diameter: to 10 in
  - Height: to 20 ft
- Propagated from seed
- Full sun
- Likes more water than splendens
- Well-drained soil

# Ferocactus acanthodes



- Free plant
- Origin: USA ( Arizona, California)  
Mexico (Sonora, Baja California)
- TCSS field guide pp 126-127
- Min temp: can tolerate some frost
- Usually solitary
  - Diameter: to 20 in
  - Height: to 6 ft
- Propagated from seed
- Full / filtered sun
- Well-drained soil

# Euphorbia pseudoglobosa

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: Protect from frost
- Forms cluster of segmented fingers
  - Finger height: to 4 in
  - Finger diameter: to 1 in
- Eventually grows caudex
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Hoodia juttea



- **Free plant**
- **Origin: Namibia (Karas Mountains)**
- **Min temp: protect from frost**
- **Forms small shrublet**
  - **Stem height: to 12 in**
  - **Stem diameter: to 1 ½ in**
- **Flowers when mature, usually five years**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Escobaria hesteri



- Free plant
- Origin: USA (Western Texas)
- Min temp: may need protection from hard frost
- Prolific bloomer
- Forms dwarf mounds
  - Stem diameter: to 1 ½ in
  - Stem height: to 1 ½ in
- Propagated from seed, offsets
- Full / filtered sun
- Well-drained soil

# Cheiridopsis purpurea

## Free plant

- Origin: South Africa (Richtersveld)
- Min temp: protect from frost
- Eventually forms clumps
  - Rosette diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Frailea parviflora

- Free plant
- Origin: South America (southeastern)
- Min temp: unknown (protect from frost)
- May form offsets at base
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Caralluma socotrana



- Free plant
- Origin: Island of Socotra, Kenya
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 1 in
  - Stem height: to 10 in
- Flowers pollinated by flies attracted to bad odor
- Full / filtered sun
- Propagated from seed, offsets
- Prone to rot in winter – water lightly
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Sulcorebutia arenacea

- Free plant
- Origin: Bolivia (Cochabamba)
- Min temp: to 14 deg F
- Usually solitary, may offset in time
  - Stem diameter: to 2 in
  - Stem height: to 1 ½ in
- Propagated from seed, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Bursera microphylla



- Free plant
- Origin: USA (Arizona, California)  
Mexico (Baja California, Sinaloa, Sonora, Zacatecas)
- Min temp: give some protection in colder areas
- TCSS field guide pp 250-251
- Forms caudiciform tree in habitat
  - Height: to 30 ft
  - Diameter: to 15 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Use well-drained soil

# Thelocactus hexadrophorus



- Free plant
- Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Gasteria glomerata



- **Free plant**
- **Origin: South Africa (Southeastern Cape Province)**
- **Min temp: protect from frost**
- **Habitat: sheer vertical rocky ledges**
- **Forms rounded clusters**
  - **Cluster diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia 'Manda's Hybrid'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- May turn red with more sunlight
- Forms rosette that offsets readily
  - Rosette size: to 2 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Titanopsis aff calcareum

- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Habitat: Limestone outcrops
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Haworthia mirabilis var calcarea

## Free plant

- Origin: South Africa (Western Cape Province)
- Min temp: protect from frost
- Forms tough spiky rosette
  - Diameter: to 8 in
  - Height: to 6 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloinopsis rubrolineata



- Free plant
- Origin: South Africa
- Min temp: to 14 deg F
- Grows a caudex in time
- Forms low mats
  - Rosette diameter: to 3 in
  - Height with caudex: to 4 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thank You To Our Plant Suppliers This Month:

- Plants for the Southwest / Living Stones Nursery
  - B & B Cactus Farm
    - Miles' To Go





# Tucson Cactus and Succulent Society September 2016

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Adenium hybrid

‘Desert Rose 491’ x ‘Twinkling Moonlight’

- Raffle plant
- Origin: Cultivar (Africa, Arabian peninsula)
- Min temp: protect from frost
- Forms caudiciform trunk
  - Plant height: to 6 ft
  - Plant diameter: to 4 ft
- Plant in shallow, wide container to encourage fat caudex
- Propagated from cuttings
- Full / filtered sun
- Well-drained soil



# Ferocactus chrysacanthus



- **Raffle plant**
- **Origin: Mexico (Baja California)**
- **Min temp: to 14 deg F**
- **Found on islands off west coast**
- **Usually solitary**
  - **Height : to 3 ft**
  - **Diameter: to 12 in**
- **Propagated from seed**
- **Full sun**
- **Water when dry during warm weather**
- **Use well-drained soil**

# Euphorbia horrida

- **Raffle plant**
- **Origin: South Africa (Great Karoo)**
- **Min temp: give protection in colder areas**
- **Forms clusters of cylindrical stems**
  - **Stem height: 2 ft**
  - **Stem diameter: to 8 in**
- **Propagated from seed, cuttings**
- **Full / Filtered sun**
- **Medium water use**
- **Use well drained soil mix**





# Ancistrocactus uncinatus



- Raffle plant
- Origin: USA (Southern Texas); Mexico (Coahuila, Nuevo Leon, San Luis Potosi, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 4 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave colorata hybrid



- Raffle plant
- Origin: Mexico (Sonora)
- Min temp: to 14 deg F
- Has deep, massive taproot
- Forms offsets
  - Leaf width: to 7 in
  - Plant diameter: to 18 in
- Propagated from seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Oreocereus trollii

- Raffle plant
- Origin: Bolivia, Northern Argentina
- Min temp: to 14 deg F
- Habitat: arid mountains
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 12 in
- Propagated by seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus gracilis

## ssp gracilis



- Door prize
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave pygmaea

- Door prize
- Origin: Guatemala, Mexico (Chiapas)
- Min temp: protect from frost
- Dwarf hybrid 'Dragon Toes'
- Forms rosette
  - Height: to 12 in
  - Diameter: to 12 in
- Grows slowly
- Propagated from ??
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria grusonii



- Door prize
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- Larger species of Mammillaria
- Usually solitary
  - Diameter: to 1 ft
  - Height: to 1 ft
- Ribs occasionally grow in spiral pattern as cactus matures
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Jatropha dioica

- Door prize
- Origin: USA (Texas); Mexico (Tamaulipas, Oaxaca, Chihuahua)
- Min temp: to 14 deg F
- Aka "Leatherstem", "Dragon's Blood"
  - Stems produce latex
  - Changes color from clear-yellow to blood red when exposed to air
- Small sparse shrub
  - Height: to 24 in
  - Stem diameter: to 3 in
- Propagated from seed, cuttings
- Full / Filtered sun
- Well-drained soil





# Mammillaria albicoma



- Door Prize
- Origin: Mexico (San Luis Potosi, Nuevo Leon, Tamaulipas)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 2 in
  - Stem height: to 2 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Agave stricta

- Door Prize
- Origin: Mexico (Puebla, Oaxaca)
- Min temp: to 14 deg F
- May turn red in cold, strong sun
- Rosettes eventually form clusters
  - Rosette diameter: to 2 ft
  - Rosette height: to 2 ft
- Full sun
- Propagated from offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Faucaria tuberculosa

- Free plant
- Origin: South Africa (Cape Province)
- Min temp: to 14 deg F
- Forms cluster of paired leaves
  - Leaf length: to 1 ½ in
  - Cluster height: to 1 ½ in
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Thelocactus bicolor v flavidispinus

- Free plant
- Origin: Texas (Marathon Basin)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 3 in
  - Stem height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria melaleuca



- **Free plant**
- **Origin: Mexico (Tamaulipas, Palmillas)**
- **Min temp: to 14 deg F**
- **Forms clusters with age**
  - **Stem diameter: to 3 in**
  - **Clump height: to 5 in**
- **Full / Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Mammillaria hahniana

- Free plant
- Origin: Mexico (Central)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Euphorbia suzannae

- Free plant
- Origin: South Africa (Cape Province, Little Karoo)
- Min temp: protect from frost
- Forms clusters
  - Stem diameter: to 1 in
  - Stem height: to 10 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





# Thelocactus bicolor v schottii

- Free plant
- Origin: Texas (Trans Pecos)
- Min temp: to 14 deg F
- Prolific bloomer
- Usually solitary
  - Stem diameter: to 3 in
  - Stem height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Faucaria candida

## Free plant

- Origin: South Africa (Eastern Cape Province)
- Min temp: to 14 deg F
- Forms clusters of boat-shaped leaves
  - Leaf length: to 3 in
  - Cluster height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria standleyi



- Door prize
- Origin: Mexico (Sierra Madre in Sinaloa, Chihuahua, Sonora)
- Min temp: give protection in colder areas
- Forms clusters
  - Stem diameter: to 5 in
  - Height: to 5 in
- Propagated from cuttings, seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus wislizeni f flavispina



- Free plant
- Origin: Arizona (Cultivar by Chris Monrad)
- Min temp: to 14 deg F
- Yellow-spine form of Fishhook Barrel (common barrel in Tucson)
- Usually solitary
  - Diameter: to 18 in
  - Height: to 3 ft
- Propagated from seed
- Full
- Water when dry during warm weather
- Well-drained soil

# Mammillaria pachycylindrica



- Free plant
- Origin: Mexico (Coahuila, Durango)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 1 ft
  - Stem height: to 1 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Pleiospilos bolusii



- Free plant
- Origin: South Africa (Eastern and Western Cape)
- Min temp: to 14 deg F
- Gets reddish tinge with more sunlight
- Forms paired leaves
  - Leaf length: 3 in
  - Leaf width: to 1 1/2 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium tillianum



- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- Forms solitary flat globe
  - Base diameter: to 6 in
  - Height: to 4 in
- Propagated from seed
- Full sun
- Well-drained soil

# Lobivia leucomalla



- **Free plant**
- **Origin: Argentina (Catamarca)**
- **Min temp: to 14 deg F**
- **Forms solitary flat globe**
  - **Base diameter: to 6 in**
  - **Height: to 4 in**
- **Propagated from seed**
- **Full sun**
- **Well-drained soil**



# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia aurea var sierragrandensis



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Usually solitary, may form offsets
  - Diameter: to 3 in
  - Height: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus acanthodes



- Free plant
- Origin: USA ( Arizona, California)  
Mexico (Sonora, Baja California)
- TCSS field guide pp 126-127
- Min temp: can tolerate some frost
- Usually solitary
  - Diameter: to 20 in
  - Height: to 6 ft
- Propagated from seed
- Full / filtered sun
- Well-drained soil

# Euphorbia pseudoglobosa

- Free plant
- Origin: South Africa (Western Cape)
- Min temp: Protect from frost
- Forms cluster of segmented fingers
  - Finger height: to 4 in
  - Finger diameter: to 1 in
- Eventually grows caudex
- Propagated from seed, cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Leuchtenbergia principis



- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Cheiridopsis purpurea

## Free plant

- Origin: South Africa (Richtersveld)
- Min temp: to 14 deg F
- Eventually forms clumps
  - Rosette diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria sphaerica



- Free plant
- Origin: USA (SE Texas), Mexico (Tamaulipas)
- Min temp: to 14 deg F
- Prolific bloomer
- Forms clusters
  - Stem diameter: to 3 in
  - Stem height: to 4 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil

# Frailea parviflora

- Free plant
- Origin: South America (southeastern)
- Min temp: unknown (protect from frost)
- May form offsets at base
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Aloinopsis rubrolineata

- Free plant
- Origin: South Africa
- Min temp: to 14 deg F
- Mesemb that grows as a low mat
- Eventually forms caudex
  - Leaf length: to 2 in
  - Stem height: to 3 in
- Propagated from cuttings
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Bursera microphylla



- Free plant
- Origin: USA (Arizona, California)  
Mexico (Baja California, Sinaloa, Sonora, Zacatecas)
- Min temp: give some protection in colder areas
- TCSS field guide pp 250-251
- Forms caudiciform tree in habitat
  - Height: to 30 ft
  - Diameter: to 15 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Use well-drained soil

# Gasteria glomerata



- **Free plant**
- **Origin: South Africa (Southeastern Cape Province)**
- **Min temp: protect from frost**
- **Habitat: sheer vertical rocky ledges**
- **Forms rounded clusters**
  - **Cluster diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Titanopsis aff calcareum

- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Habitat: Limestone outcrops
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Thank You To Our Plant Suppliers This Month:

- Miles' To Go
- B & B Cactus Farm
- Plants for the Southwest / Living Stones  
Nursery





# Tucson Cactus and Succulent Society October 2016

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Eulophia petersii

## Desert Orchid

- Raffle plant
- Origin: Africa (Namibia), Arabian peninsula
- Min temp: to 14 deg F
- Grows under same conditions as cacti or euphorbias
- Forms large pseudobulbs
  - Plant height: to 14 in
  - Plant diameter: to 6 in
- Plant in deep pot
- Propagated from bulbs, seed
- Full / filtered sun
- Well-drained soil





# Ferocactus latispinus



- Raffle plant
- Origin: Mexico (Coahuila, Nuevo Leon)
- Min temp: to 14 deg F
- Solitary
  - Stem diameter: to 14 in
  - Stem height: to 12 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Agave guiengola variegata 'Crème brûlée'

- **Raffle plant**
- Origin: Mexico (cultivar)
- Min temp: give protection in colder areas
- Forms clusters
  - Height: 3-4 ft
  - Diameter: 4-5 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Medium water use
- Use well drained soil mix



# Mammillaria parkisonii

## 'Owl Eye Cactus'



- Raffle plant
- Origin: Mexico (Queretero, Hidalgo)
- Min temp: to 14 deg F
- Known for dichotomous branching
- Forms large mounding cluster
  - Stem diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Echeveria hybrid 'Raindrops'



- Raffle plant
- Origin: Mexico (cultivar)
- Min temp: give protection in colder areas
- Smallest of bumpy leaf cultivars
- Usually solitary
  - Height: to 6
  - Diameter: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria petersonii

- Raffle plant
- Origin: Mexico (Zacatecas)
- Min temp: to 14 deg F
- Usually solitary, may form cluster in time
  - Height: to 2 ft
  - Diameter: to 12 in
- Propagated by seed, offsets
- Full sun
- Water when dry during warm weather
- Well-drained soil



# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Titanopsis hugo-schlechteri

## Door Prize

- Origin: Namibia, South Africa (Great Namaqualand)
- Min temp: 14 deg F
- Warts and bumps on plant serve as camouflage in limestone habitat
- Forms multi-headed rosettes
  - Diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange/pink
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus emoryi ssp covillei



- Door prize
- Origin: Mexico (Sonora); Arizona (Yuma, Maricopa)
- Min temp: to 14 deg F
- TCSS field guide pp 128-129
- Usually solitary, forms heavy spines
  - Diameter: to 18 in
  - Height: to 2 ft
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Gasteria glomerulata hybrid

- Door prize
- Origin: South Africa
- Min temp: give some protection in colder areas
- Forms small cluster
  - Stem height: to 4 in
  - Stem diameter: to 4 in
- Propagated from cuttings, seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria standleyi



- Door prize
- Origin: Mexico (Chihuahua, Sinaloa, Sonora)
- Min temp: give some protection in colder areas
- Forms mounding clusters
  - Diameter: to 1 ft
  - Height: to 5 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Haworthia species

- Door prize
- Origin: South Africa (Eastern Cape Province)
- Min temp: protect from frost
- Forms cluster
  - Rosette diameter: to 4 in
  - Rosette height: to 4 in
- Propagated from seed or offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria geminispina ssp geminispina



- Door prize
- Origin: Mexico (Hidalgo, Queretaro, San Luis Potosi)
- Min temp: to 14 deg F
- Forms large mounding clusters
  - Stem height: to 7 in
  - Stem diameter: to 3 in
- Propagated from seed, cuttings
- Full sun
- Well-drained soil

# FREE PLANTS

## **Rules:**

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**Please be courteous**

# Leuchtenbergia principis

## Free plant

- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 1 ft
  - Height: to 1 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Haworthia 'Manda's Hybrid'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- May turn red with more sunlight
- Forms rosette that offsets readily
  - Rosette size: to 2 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus triglochidiatus



- Free plant
- Origin: USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Thelocactus hexadrophorus



- Free plant
- Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Euphorbia milii

- Free plant
- Origin: Madagascar
- Min temp: protect from frost
- Forms small woody shrub
  - Height: to 3 ft
  - Diameter: to 2 ft
- Prolific bloomer
- Propagated from seed, tip cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Thelocactus heterochromus

- Free plant
- Origin: Mexico (Durango, Coahuila)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 3 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Mammillaria marksiana



- **Free plant**
- **Origin: Mexico (Sonora, Sinaloa, Durango)**
- **Min temp: to 14 deg F**
- **Forms clusters with age**
  - **Stem diameter: to 5 in**
  - **Stem height: to 4 in**
- **Full / Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus haselbergii



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: give some protection in colder areas**
- **Usually solitary**
  - **Diameter: to 6 in**
  - **Height: to 4 in**
- **Filtered sun**
- **Propagated from seed**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Ferocactus wislizeni f flavispina



- Free plant
- Origin: Arizona (Cultivar by Chris Monrad)
- Min temp: to 14 deg F
- Yellow-spine form of Fishhook Barrel (common barrel in Tucson)
- Usually solitary
  - Diameter: to 18 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Pleiospilos bolusii



- Free plant
- Origin: South Africa (Eastern and Western Cape)
- Min temp: to 14 deg F
- Gets reddish tinge with more sunlight
- Forms paired leaves
  - Leaf length: 3 in
  - Leaf width: to 1 1/2 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Lobivia aurea var sierragrandensis



- Free plant
- Origin: Argentina
- Min temp: to 14 deg F
- Usually solitary, may form offsets
  - Diameter: to 3 in
  - Height: to 6 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Leuchtenbergia principis



- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Cheiridopsis purpurea

## Free plant

- Origin: South Africa (Richtersveld)
- Min temp: to 14 deg F
- Eventually forms clumps
  - Rosette diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Frailea parviflora

- Free plant
- Origin: South America (southeastern)
- Min temp: unknown (protect from frost)
- May form offsets at base
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria glomerata



- **Free plant**
- **Origin: South Africa (Southeastern Cape Province)**
- **Min temp: protect from frost**
- **Habitat: sheer vertical rocky ledges**
- **Forms rounded clusters**
  - **Cluster diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Titanopsis aff calcareum

- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Habitat: Limestone outcrops
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil





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- Bach's Greenhouse Cactus Nursery
  - Miles' To Go
- B & B Cactus Farm





# Tucson Cactus and Succulent Society November 2016

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

**Presented by Donna and Robert Ellis**

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Mammillaria parkinsonii

## 'Owl Eye Cactus'



- Raffle plant
- Origin: Mexico (Queretero, Hidalgo)
- Min temp: to 14 deg F
- Known for dichotomous branching
- Forms large mounding cluster
  - Stem diameter: to 6 in
  - Height: to 8 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Hesperoyucca whipplei

## var whipplei

- **Raffle plant**
- **Origin: California**
- **Min temp: to 10 deg F**
- **Forms large dense rosette**
  - **Plant height: to 3 ft**
  - **Plant diameter: to 4 ft**
- **Grows large spiky flower**
- **Propagated from offsets, seed**
- **Full / filtered sun**
- **Well-drained soil**



# Peniocereus viperinus



- Raffle plant
- Origin: Mexico (Morelos, Oaxaca, Puebla)
- Min temp: protect from frost in colder areas
- Has numerous slender branches and tuberous root
  - Stem diameter: to 1/2 in
  - Stem height: to 3 ft
- Propagated from seed, cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gasteria acinacifolia x nitida

- **Raffle plant**
- **Origin: Mexico (cultivar)**
- **Min temp: protect from frost**
- **Forms large rosette with offsets**
  - **Height: to 9 in**
  - **Diameter: to 12 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Medium water use**
- **Use well drained soil mix**



# Echinocactus horizontalthalonus

- Raffle plant
- Origin: USA (Arizona, New Mexico, Texas) ; Mexico (Nuevo Leon, San Luis Potosi)
- Min temp: to 14 deg F
- Usually solitary
  - Height: to 8 ft
  - Diameter: to 8 in
- Propagated by seed
- Full sun
- Water when dry during warm weather
- Well-drained soil





# Gasteria batesiana var batesiana



- **Raffle plant**
- **Origin: South Africa, Namibia**
- **Min temp: protect from frost**
- **Forms small rosettes**
  - **Height: to 6**
  - **Diameter: to 6 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**

# Ferocactus hematacanthus ssp hematacanthus

## Door Prize

- Origin: USA (New Mexico, Texas); Mexico (Chihuahua)
- Min temp: 14 deg F
- Usually solitary
  - Diameter: to 8 in
  - Height: to 16 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloe tullearensis



- Door prize
- Origin: Madagascar
- Min temp: protect from frost
- Forms flattened rosette:
  - Diameter: to 18 in
  - Height: to 6 in
- Filtered sun
- Propagated from seed, cuttings
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Gymnocalycium denudatum cv 'Jan Suba'

- Door prize
- Origin: Brazil, Argentina, Uruguay
- Min temp: to 14 deg F
- Cultivar
  - Gymnocalycium denudatum x G baldianum
- Usually solitary
  - Stem height: to 4 in
  - Stem diameter: to 6 in
- Propagated from cuttings
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloe megalacantha



- Door prize
- Origin: Africa (Ethiopia, Somalia)
- Min temp: protect from frost
- Forms rosette
  - Diameter: to 18 in
  - Height: to 2 ft
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria crassimammillis

- Door prize
- Origin: Mexico (Nuevo Leon)
- Min temp: to 14 deg F
- Usually solitary, flat
  - Diameter: to 12 in
  - Height: to 8 in
- Propagated from seed or offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Aloe hahnii



- Door prize
- Origin: South Africa (Limpopo Province)
- Min temp: protect from frost
- New species described in 2009
- Usually solitary
  - Height: to 14 in
  - Diameter: to 24 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Peniocereus greggi

## ‘Queen of the Night’

### Free plant

- Origin: USA (Arizona, New Mexico, Texas); Mexico ( Sonora, Chihuahua, Durango, Coahuila)
- Min temp: to 14 deg F
- Grows under trees and bushes
- Has large tuberous root
- Forms long slender stems
  - Stem diameter: to  $\frac{3}{4}$  in
  - Height: to 6 ft
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria carinata v verrucosa



## Free plant

- Origin: Africa (Western Cape)
- Min temp: protect from frost
- Forms small dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus santa-maria

- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 1 ft
  - Height: to 2 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil



# Haworthia cymbiformis var incurvula



## Free plant

- Origin: Africa (Eastern Cape)
- Min temp: protect from frost
- Forms small dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus peninsulae var viscainoensis

- Free plant
- Origin: Mexico (Baja California)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 1 ft
  - Height: to 2 ft
- Propagated from seed
- Full sun
- Well-drained soil



# Haworthia venosa var tessellata



## Free plant

- Origin: Africa (Namibia)
- Min temp: protect from frost
- Forms small dense clusters
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria longimamma

- Free plant
- Origin: Mexico (Hidalgo)
- Min temp: to 14 deg F
- Forms clusters
  - Stem diameter: to 3 in
  - Height: to 2 in
- Propagated from seed, offsets
- Full / Filtered sun
- Well-drained soil





# Stenocereus thurberi

## 'Organ Pipe Cactus'



- **Free plant**
- **Origin: Arizona, Mexico (Sonora, Baja California)**
- **Min temp: protect from frost in colder areas**
- **Forms multiple stems from base**
  - **Stem diameter: to 6 in**
  - **Stem height: to 16 ft**
- **Propagated from seed, offsets**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Haworthia 'Manda's Hybrid'

## Free plant

- Origin: Cultivar
- Min temp: protect from frost
- May turn red with more sunlight
- Forms rosette that offsets readily
  - Rosette size: to 2 in
  - Height: to 2 in
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus triglochidiatus



- Free plant
- Origin: USA (Arizona, Nevada, Utah, Colorado, California, New Mexico, Texas) and Mexico
- Min temp: to 14 deg F
- Forms dense cluster
  - Stem diameter: to 3 in
  - Height: to 1 ft
- Propagated from seed
- Full / Filtered sun
- Well-drained soil

# Mammillaria plumosa



- **Free plant**
- **Origin: Mexico (Coahuila, Nuevo Leon)**
- **Min temp: to 14 deg F**
- **Has soft, feathery spines**
- **Forms low dense clumps**
  - **Stem diameter: to 3 in**
  - **Stem height: to 3 in**
- **Propagated from seed, offsets**
- **Full / Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Notocactus buiningii

- Free plant
- Origin: Brazil, Uruguay
- Min temp: can tolerate occasional frost in warmer areas of town
- Usually solitary
  - Stem diameter: to 5 in
  - Stem height: to 3 in
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus hexadrophorus



- Free plant
- Origin: Mexico (San Luis Potosi, Tamaulipas, Nuevo Leon, Zacatecas)
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 3 in
- Full sun
- Propagated from seed
- Water when dry during warm weather
- Use highly porous, well-drained soil

# Euphorbia milii

- Free plant
- Origin: Madagascar
- Min temp: protect from frost
- Forms small woody shrub
  - Height: to 3 ft
  - Diameter: to 2 ft
- Prolific bloomer
- Propagated from seed, tip cuttings
- Filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Thelocactus heterochromus

- Free plant
- Origin: Mexico (Durango, Coahuila)
- Min temp: to 14 deg F
- Usually solitary
  - Diameter: to 6 in
  - Height: to 3 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria marksiana



- **Free plant**
- **Origin: Mexico (Sonora, Sinaloa, Durango)**
- **Min temp: to 14 deg F**
- **Forms clusters with age**
  - **Stem diameter: to 5 in**
  - **Stem height: to 4 in**
- **Full / Filtered sun**
- **Propagated from seed, offsets**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Gymnocalycium baldianum

- Free plant
- Origin: Argentina (Catamarca)
- Min temp: to 14 deg F
- May form clusters
  - Stem diameter: to 5 in
  - Stem height: to 4 in
- Flowers readily
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus haselbergii



- **Free plant**
- **Origin: Brazil (Rio Grande do Sul)**
- **Min temp: give some protection in colder areas**
- **Usually solitary**
  - **Diameter: to 6 in**
  - **Height: to 4 in**
- **Filtered sun**
- **Propagated from seed**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**

# Ferocactus wislizeni f flavispina



- Free plant
- Origin: Arizona (Cultivar by Chris Monrad)
- Min temp: to 14 deg F
- Yellow-spine form of Fishhook Barrel (common barrel in Tucson)
- Usually solitary
  - Diameter: to 18 in
  - Height: to 3 ft
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium horstii

- Free plant
- Origin: Uruguay, Paraguay, Brazil, Argentina
- Min temp: to 14 deg F
- Usually solitary
  - Stem diameter: to 8 in
  - Stem height: to 6 in
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Leuchtenbergia principis



- Free plant
- Origin: Mexico (San Luis Potosi, Chihuahua)
- Min temp: to 14 deg F
- Well camouflaged in habitat by long papery spines that resemble dry grass
- Usually solitary
  - Stem height: to 2 ft
  - Stem diameter: to 10 in
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Cheiridopsis purpurea

## Free plant

- Origin: South Africa (Richtersveld)
- Min temp: to 14 deg F
- Eventually forms clumps
  - Rosette diameter: to 3 in
  - Height: to 2 in
- May have a tint of orange
- Propagated from seed, offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Frailea parviflora

- Free plant
- Origin: South America (southeastern)
- Min temp: unknown (protect from frost)
- May form offsets at base
  - Stem diameter: to 3 in
  - Stem height: to 3 in
- Propagated from seed, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Gasteria glomerata



- **Free plant**
- **Origin: South Africa (Southeastern Cape Province)**
- **Min temp: protect from frost**
- **Habitat: sheer vertical rocky ledges**
- **Forms rounded clusters**
  - **Cluster diameter: to 3 in**
  - **Height: to 3 in**
- **Propagated from seed, offsets**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**

# Titanopsis aff calcareum

- Free plant
- Origin: South Africa (Bushmanland, Upper Karoo)
- Min temp: to 14 deg F
- Habitat: Limestone outcrops
- Forms clusters
  - Stem diameter: to 3 in
  - Clump height: to 5 in
- Filtered sun
- Propagated from seed, offsets
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Thank You To Our Plant Suppliers This Month:

- Arid Lands Greenhouses
  - Miles' To Go
- Bach's Greenhouse Cactus Nursery
  - B & B Cactus Farm





Tucson Cactus and  
Succulent Society

Feb 2013

**RAFFLE PLANTS**  
**DOOR PRIZES**  
**FREE PLANTS**



# Trichocereus bridgesii monstrose

- Rare
- Origin: Bolivia
- Slow growing
- Min: 32 deg F
- Full/filtered sun
- Be careful to protect from humidity in July and Aug
- Water only when dry during warm weather
- Psychoactive (mescaline)



# Dyckia fosteriana x



- Origin: Brazil
- Protect from frost
- Full sun
- Grown for silver-grey foliage
- Protect from rain and hosing to get white foliage
- Water when dry during warm weather
- Well-drained soil



# Agave hybrid 'Mr. Ripple'

- Origin: San Luis Potosi, Mexico
- Hardy to 10 deg F
- Full sunlight
- Reproduced via tissue culture
- Height: 3-6 feet
- Well-drained soil
- *A. salmiana* x *A. protoamericana* ?



# Ferocactus rectispinus

- Origin: Baja California
- Protect from frost
- Full sun promotes spination
- Flower: Yellow
- Water when dry during warm weather
- Well-drained soil





# Echeveria subrigida



- Family: Crassula
- Origin: Mexico
- “Fire and Ice”
- Min: 20-25 deg F
- Sun or shade
- Width: 1-2 feet
- Forms rosettes
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium cardenasianum

- Origin: Bolivia
- Slow growing
- Flower: Pink/White
- Full sunlight
- Protect from frost
- Heavy spines may prevent flowers from opening
- Water when dry during warm weather
- Well drained soil



# Pleiospilos nelii



- ◉ Origin: S. Africa
- ◉ Min: 32 deg F
- ◉ Filtered sunlight
- ◉ Protect from humidity in July and August
- ◉ Water lightly when dry during warm weather
- ◉ Well-drained soil



# Astrophytum capricorne

- Origin: Mexico
- Slow growing
- Flower: Yellow with red center
- Full sunlight
- Tolerates mild frost
- Spines serve as camouflage in grass
- Water when dry during warm weather
- Well drained soil



# Gymnocalycium baldanianum

- Free plant
- Origin: Argentina (Catamarca)
- Not frost hardy
- Filtered sunlight
- Grows slowly
- Water when dry during warm weather
- Well-drained soil



# Mammillaria glassii nova



- Free plant
- Origin: N.E. Mexico
- Protect from frost
- Full / filtered sunlight
- Forms low mat
- Water when dry during warm weather
- Well-drained soil

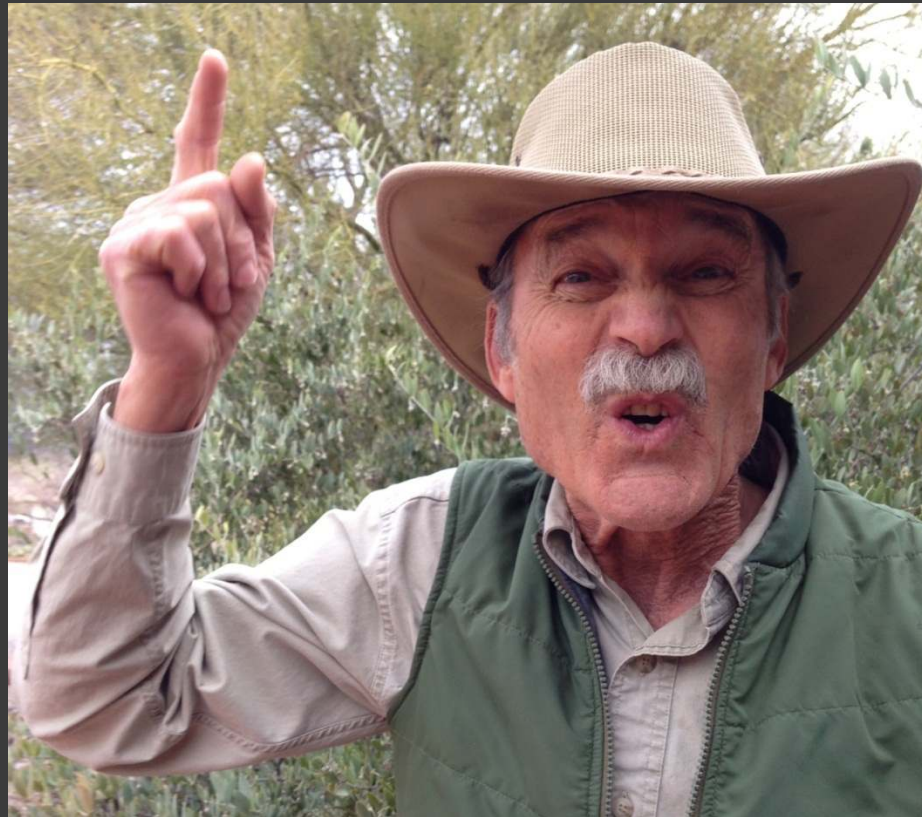


# Free Plant Rules

- ⦿ One plant per person
- ⦿ Must stay until end of meeting
- ⦿ No pushing, shoving, or conduct unbecoming
  
- ⦿ Or ...



# NO PLANT FOR YOU !







# Tucson Cactus and Succulent Society

March 2013

**RAFFLE PLANTS**  
**DOOR PRIZES**  
**FREE PLANTS**



# Agave aurea

- ⦿ Baja California Sur
- ⦿ Hardy to 20 deg F
- ⦿ Solitary
- ⦿ Medium size
- ⦿ Brown marginal spines
- ⦿ Full / filtered sun
- ⦿ Well-drained soil
- ⦿ Water when dry during warm weather



# Agave avellanidens



- Central Baja California
- Hardy to 15 deg F
- Gray green leaves with strong white teeth
- Medium size
- Non-clumping
- Full / filtered sun
- Well-drained soil
- Water when dry during warm weather



# Agave cerulata ssp nelsonii

- Baja California
- Hardy to 15 deg F
- Short broad undulate leaves w/weak spines
- Small rosettes
- Offsets
- Full sunlight
- Well-drained soil
- Water when dry during warm weather



# Agave cerulata ssp subcerulata

- Baja California
- Hardy to 15 deg F
- Small rosette
- Offsets
- Blue gray with some yellow and green
- Full / filtered sun
- Well-drained soil
- Water when dry during warm weather



# Agave datylio



- ⦿ Baja California Sur
- ⦿ Min temp: Untested
- ⦿ Prolific off-setter
- ⦿ Yellow green coloration
- ⦿ Rosettes stay small
- ⦿ Full / filtered sun
- ⦿ Well-drained soil
- ⦿ Water when dry during warm weather



# Agave deserti var deserti

- ◉ Western Arizona
- ◉ Hardy to 15 deg F
- ◉ Prolific off-setter
- ◉ Forms large clumps w/small rosettes
- ◉ Full / filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil



# Agave deserti var. simplex



- ◉ Western Arizona
- ◉ Min: 15 deg F
- ◉ Solitary
- ◉ Small-to-medium rosettes
- ◉ Mostly single
- ◉ Strong spines
- ◉ Full / filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil





# Agave giganteensis

- Named after origin (Sierra de la Giganta)
- Baja California
- Hardy to 15 deg F
- Solitary
- Large (3 ft x 4 ft)
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave shawii ssp. goldmaniana

- Central Baja California
- Hardy to 15 deg F
- Large
- Prolific off-setter
- Rosette resembles giant artichoke
- Red-black spines
- Full sun
- Water when dry during warm weather
- Well-drained soil



# Agave sobria ssp. sobria



- Baja California Sur
- Hardy to 20 deg F
- Small to medium
- Offsets occasionally
- Fierce red-brown spines
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Agave turneri

- ◉ North Baja California
- ◉ Hardy to 20 deg F
- ◉ Grows in a hyper-arid environment
- ◉ Solitary
- ◉ Medium size
- ◉ Glaucous blue green
- ◉ Full sun
- ◉ Well-drained soil



# Agave vizcainoensis



- ◉ Western Vizcaino Desert
- ◉ Baja California Sur
- ◉ Hardy to 15 deg F
- ◉ Small to medium
- ◉ Occasional offsetting
- ◉ Fierce white / gray spines
- ◉ Full / filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil



# Free Plant Rules

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# Raffle Prices

- \$1 per ticket
- Six tickets for \$5





# Tucson Cactus and Succulent Society

## April 2013

**Raffle plants**  
**Door prizes**  
**Free plants**

Presented by Donna and Robert Ellis





**TCSS thanks Diane and Dan  
of Bach's Cactus Nursery ...**

**... For generously donating the free  
plants this month!**





# **Pilosocereus pachycladus** (monstrose)



- Rare
- NE Brazil
- Min temp: 45 deg. F
- Golden marginal spines
- Full / filtered sun
- Soil: Very porous and well-draining
- Water when dry during warm weather



# **Albuca spiralis**

- **South Africa**
- **Family: Hyacinthaceae**
- **Min temp: 20-30 deg F**
- **Corkscrew leaves sprout out of caudex-forming bulb**
- **Bell-shaped yellow flowers**
- **Height: 6 inches**
- **Ample sun encourages foliage to twist and spiral**
- **Foliage is deciduous; goes dormant in hot summer**
- **Use well-drained soil**
- **Propagation: rhizomes, tubers, bulbs**



# Dyckia hybrid "Burgundy Ice"



- South America (Brazil)
- Hardy to 25 deg F
- Dark red blades have sharp white teeth and silver undersides
- Height: 6-12 inches
- Forms rosettes
- Bright orange flowers
- Give ample sun to encourage deep red color
- Well-drained soil
- Water when dry during warm weather



# Agave titanota

- Oaxaca, Mexico
- Protect from frost
- Short broad leaves w/strong spines
- Mostly solitary
- Has a few offsets
- Width: 2 ft
- Full sunlight
- Well-drained soil
- Water when dry during warm weather



# **Tephrocactus aoracanthus** **fm paediophilus**

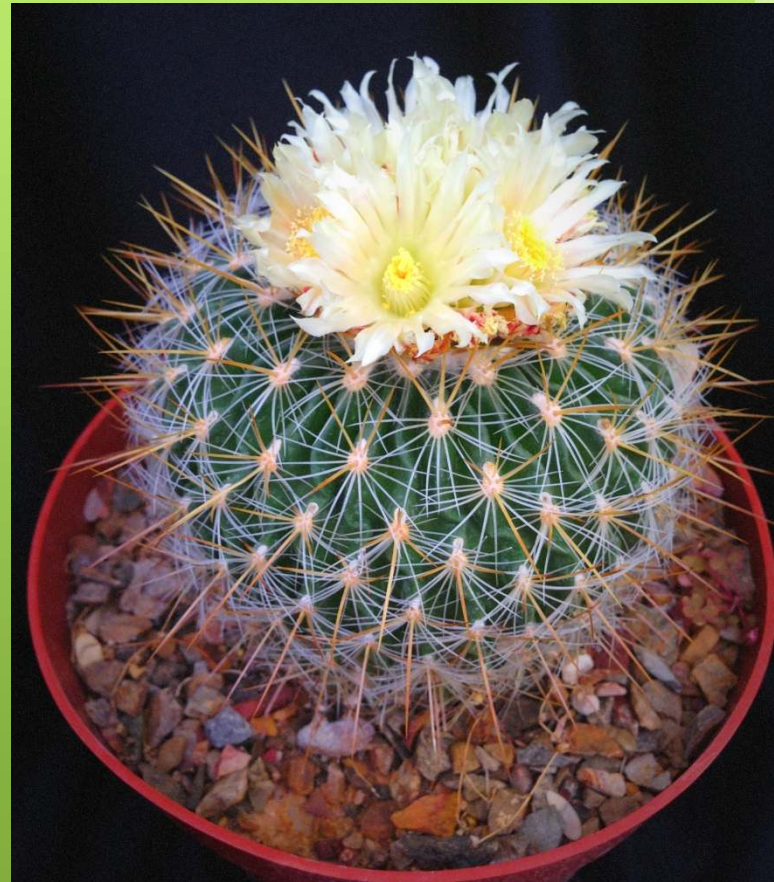


- **Argentina**
- **Min temp: 30 deg F**
- **Up to 12 inches tall**
- **Long flexible spines**
- **Solitary**
- **Full / filtered sun**
- **Well-drained soil**
- **Water when dry during warm weather**



# Stenocactus vaupelianus

- Hidalgo, Mexico
- Hardy to 25 deg F
- Height: Under 6 in
- Solitary
- Dark green globe with wavy ribs
- Golden spines
- Woolly aereoles
- Full / filtered sun
- Well-drained soil
- Water when dry during warm weather



# Rebutia krainziana



- Argentina
- Min: 25 deg F
- Clumps profusely
- Height: Under 6 in
- Short spines
- Abundant flowers in early spring
- Repot regularly to increase size and number of stems
- Filtered sun / cooler temperatures
- Water when dry during warm weather
- Well-drained soil



# Notocactus magnifica

- Brazil
- Protect from frost
- Large clustering mounds
- Blue-green globe with wool and golden spines along vertical ribs
- Full / filtered sun
- Well-drained soil
- Water when dry during warm weather





# Mammillaria sempervivi



- Central and northern Mexico
- Min temp: 28 deg F
- Solitary
- Flowers form rings on the crown
- Mostly single
- Axil: Abundantly wooly
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus triglochidiatus

- SW United States
- Frost hardy
- Forms large clusters over time
- Aka 'Claret cup hedgehog'
- Easy to grow
- Full / filtered sun
- Well-drained soil
- Water when dry during warm weather



# Espostoa lanata



- Andes of southern Ecuador and Peru
- Protect from frost
- Height: 15+ ft.
- Propagate from cuttings or seed
- May branch above ground
- Full / filtered sun
- Well-drained soil
- Water when dry during warm weather



# Notocactus schlosseri

- Uruguay
- Hardy to 25 deg F
- Solitary
- Yellow flowers
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

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# Sempervivum arachnoideum



- Alps and Carpathian Mtns
- Forms mats of rosettes called 'hens and chicks'
- Frost hardy
- In Europe traditionally grown on rooftops between thatching, tiles, or timbers, hence the name 'House Leeks'
- Does well in rock crevices
- Full / filtered sun
- Water when dry during warm weather
- Use highly porous, well-drained soil



# **Mammillaria camptotricha**

## **var albescens**

- **San Luis Potosi,  
Guanajuato, Queretaro  
Mexico**
- **Min temp: 25 deg F**
- **Height: under 4 in**
- **Latest name: Mam.  
decipiens ssp albescens**
- **Clustering**
- **Filtered sun**
- **Well-drained soil**
- **Water when dry during  
warm weather**



# **Notocactus leninghausii**

- **Brazil**
- **Protect from frost**
- **Height: 24 in**
- **Usually forms clumps**
- **Pale green stems with numerous soft golden spines**
- **Lemon yellow flowers**
- **Filtered sun**
- **Well-drained soil**
- **Water when dry during warm weather**



# Mammillaria baumii



- Tamaulipas, Mexico
- Protect from frost
- Found under bushes
- Forms low clustering mats
- Profuse scented yellow flowers
- Filtered sun only
- Water when dry during warm weather
- Well-drained soil





# **Astrophytum myriostigma**

- **Chihuahuan Desert, Mexico**
- **Hardy to 25 deg F**
- **Height: to 10 inches**
- **Solitary**
- **Spineless with four to seven ribs**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**

an



# Mammillaria guelzowiana

- Durango, Mexico
- Protect from frost
- Flowers are largest in genus
- Stems slowly cluster from base
- Clusters 3-5 inches
- Filtered sun
- Well-drained soil
- Water when dry during warm weather
- Sensitive to overwatering



# Echeveria agavoides



- San Luis Potosi, Hidalgo, Guanajuato, Durango, Mexico
- Hardy 20-25 deg F
- Solitary 10-12 in. wide
- Height: 10-12 in.
- Filtered sun
- Well-drained soil
- Water when dry during warm weather



# **Echinocereus fendleri**

## **var. rectispinus**

- SW U.S., N Mexico
- Frost hardy native
- Forms clusters of up to 10 heads
- 10-inch hedgehog
- Large flowers
- Full sun
- Well-drained soil



# Sempervivum tectorum



- Mountains of southern Europe
- Forms mats 6 x 20 inches
- Hardy to 25 deg F
- First described by Linnaeus in 1753
- Freely offsets
- Tectorum means 'of house roofs'
- Reddish-purple flowers
- Filtered sun
- Water when dry during warm weather
- Well-drained, gritty soil



# **Notocactus uebelmannianus**



- **Rio Grande do Sul, Brazil**
- **Protect from frost**
- **Solitary 5 x 7 inches**
- **Occasional offsetting**
- **Spines curve into plant**
- **Filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Echeveria cultivars

- Mexico, C. America, S. America
- Protect from frost
- Drought resistant
- Eventually cluster
- Easy to propagate from leaves or cuttings
- Many color variations
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# **Astrophytum ornatum**



- **Queretaro, Hidalgo Mexico**
- **Frost hardy**
- **Solitary**
- **Slow growing**
- **Large (1 ft. x 3 ft.)**
- **Yellow flower**
- **Full sun**
- **Water when dry during warm weather**
- **Well-drained soil**





# Coryphantha elephantidens



- Michoacan, Morelos Mexico
- Hardy to 25 deg F
- Forms large clumps
- Flowers pink to white
- Robust decurved spines
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# **Thelocactus hexaedrophorus**

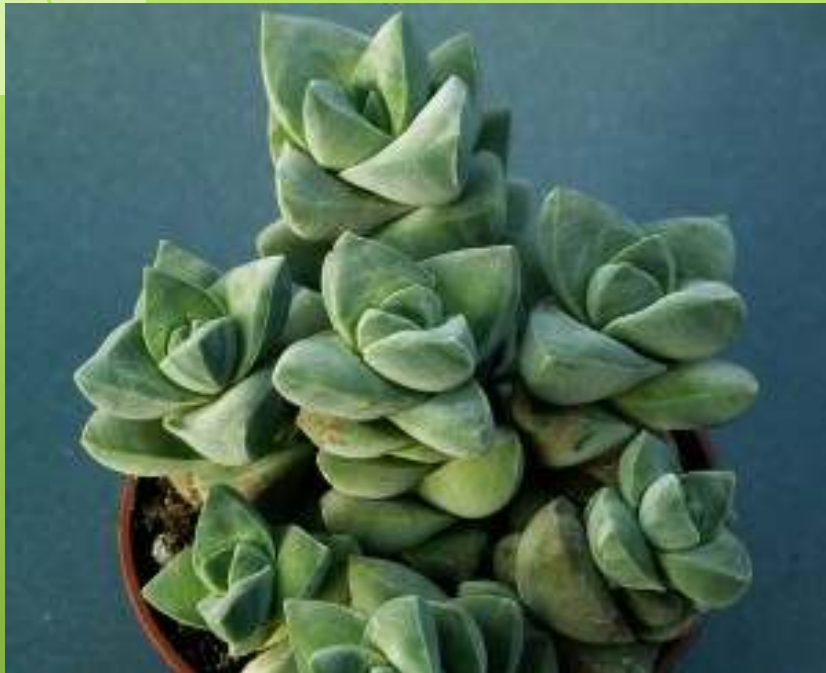


- Chihuahuan Desert
- Hardy to 25 deg F
- Solitary, round with flattened stems
- Robust decurved spines
- Central spines almost always absent
- Keep away from rabbits
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# **Crassula cv "Moonglow"**

(Crassula deceptor var arta X falcata)



- South Africa
- Protect from frost
- Height 6-12 inches
- Filtered sun
- Water sparingly during warm weather
- Allow to dry between watering
- Use very porous soil
- Prone to rot in cold moist weather



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## Raffle Prices

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# Tucson Cactus and Succulent Society

June 2013

**Raffle plants**  
**Door prizes**  
**Free plants**

Presented by Donna and Robert Ellis



# Cotyledon orbiculata



- » Origin: South Africa
- » Protect from frost
- » Bell-shaped yellow/red flowers
- » Full / filtered sun
- » White powdery coating helps reflect sun's heat
- » Water when dry during warm weather
- » Well-drained soil



# Cyphostemma hybrid

## cv "Fat Bastard"

- » Origin: Deserts of eastern and southern Africa, Madagascar
- » Protect from frost
- » *C. juttae* x ??
- » Full / filtered sun
- » Bright green leaves
- » Above ground stem has peeling bark
- » Water when dry during warm weather
- » Well-drained soil



# Fockea edulis



- » Origin: Southern Africa
- » Takes frost for short time
- » Two kinds of branches: tree-like and vines
- » Semi-deciduous caudiciform
- » Full / filtered sun
- » Water when dry during warm weather
- » Well-drained sandy, gritty soil
- » Rot-prone in winter—keep dry





# Echinocereus brandegeei

- » Origin: Baja California
- » Frost tender
- » May create large mounds 6 feet across
- » Full sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Monadenium ritchiei



- » Origin: Eastern Africa, Kenya
- » Protect from frost
- » Stems are 1 inch wide
- » Spines small and very short
- » Has hot pink flowers
- » Forms large compact clumps with time
- » Full / filtered sun
- » Water when dry during warm weather
- » Well-drained soil



# Echinocereus pectinatus

## variety Coahuila

- » Origin: Southwestern United States, northern Mexico
- » Min temp: 25 deg F
- » Height: Under 6 in
- » Usually single
- » Filtered sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Dyckia hybrids



- » Origin: Brazil
- » Min temp: 20 deg F
- » 120 species
- » Most cold hardy of Bromeliad genera
- » Form mats
- » Live on or around rocks
- » Full sun
- » Water when dry during warm weather
- » Well-drained soil



# Echinocereus russanthus

- » Origin: Big Bend region of Texas; Chihuahua, Mexico
- » Height: 8 – 10 inches
- » Usually single
- » Small dark reddish flowers
- » Full sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Echinocereus enneacanthus



- » Origin: southern Texas, northeastern Mexico
- » Frost hardy
- » Habitat: Chihuahuan desert scrub
- » Forms loose clumps
- » May be propagated via cuttings
- » Full sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Echinocereus sanpedroensis

- » Origin: Sonora and Durango, Mexico
- » Min temp: 20 deg F
- » Height: 5 – 8 inches
- » Forms clusters
- » Full sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Echinocereus stoloniferous

**ssp tayopensis**



- » Origin: Eastern Sonora and Western Chihuahua, Mexico
- » Min temp: 25 deg F
- » Habitat: open forest, oak woodland transition, desert grassland
- » Forms clumps
- » Can be propagated via a stem cutting ('stolon')
- » Full sunlight
- » Water when dry during warm weather
- » Well-drained soil





# Echinocereus triglochidiatus

- » Southwestern United States
- » Frost hardy
- » Forms large clusters over time
- » Aka 'Claret cup hedgehog'
- » Easy to grow
- » Full / filtered sun
- » Well-drained soil
- » Water when dry during warm weather



# Echinocereus ledingii



- » Origin: Southeastern Arizona mountains
- » Frost hardy
- » Height: 8 - 10 inches
- » Forms clusters
- » Propagated by rhizomes, tubers
- » Full / filtered sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Mammillaria carretii

- » Origin: Nuevo Leon, Mexico
- » Protect from frost
- » Uncommon in collections
- » Height: under 6 inches
- » Clustering, each head 2 inches in diameter
- » Full/ Filtered sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Aloe brevifolia



- » Origin: Western Cape, South Africa
- » Min: 25-30 deg F
- » Filtered sunlight
- » Dwarf aloe
- » Creates clumps about 1 foot tall
- » Flowers: Orange-red
- » Water lightly when dry during warm weather
- » Well-drained soil



# Echinopsis hybrid

- » Origin: Cultivars (South America)
- » Protect from frost
- » Remarkable for large, tubular, night blooming flowers
- » Flowers variously colored
- » Filtered sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Lobivia hybrid



- » Origin: Cultivars (Bolivia, Argentina, Peru)
- » Protect from frost
- » Name is anagram of Bolivia
- » Forms dwarf clusters
- » Profuse flowers, various colors
- » Filtered sun
- » Water lightly when dry during warm weather
- » Well-drained soil



# Aloe zanzibarica

- » Origin: Zanzibar (island off the coast of Tanzania in eastern Africa)
- » Protect from frost
- » Forms large mats (photo shows 40-year-old colony at Tanque Verde Greenhouses)
- » Flowers attract hummingbirds
- » Filtered sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Mammillaria zeilmaniana



- » Origin (single site): San Miguel de Allende, Guanajuato, Mexico
- » Hardy to 25 deg F if kept dry
- » Habitat: grows in a canyon with volcanic rock, large trees, flowing water
- » Creates clusters in cultivation
- » Blooms abundantly throughout year
- » Water lightly when dry during warm weather
- » Well-drained soil





# Agave victoria reginae

- » Origin: Northeastern Mexico
- » Min temp: 25 deg F
- » Filtered sunlight
- » Grows slowly
- » Fibers used for clothing, ropes; plant used for food, alcohol
- » Full / filtered sunlight
- » Water when dry during warm weather
- » Well-drained soil



# Leuchtenbergia principis

**“Agave Cactus”**



- » San Luis Potosi, Chihuahua Mexico
- » Min: 25 deg F
- » Solitary or slow to offset
- » Slow growing
- » Long papery spines resemble dry grass—serve as camouflage
- » Single species in genus
- » Hybrids have been created with Ferocactus (‘Ferobergia’)
- » Filtered sun
- » Water when dry during warm weather
- » Well-drained soil



# Rebutia heliosa

## var condorensis

- » Origin: Mountainous areas in Bolivia
- » Frost hardy
- » Small clumping cactus that forms a mound
- » Flowers profusely
- » Very sensitive to overwatering
- » Commonly grafted to avoid root problems
- » Water when dry during warm weather
- » Very porous soil



# Pleiospilos nelii



- » Origin: S. Africa
- » Min: 32 deg F
- » Filtered sunlight
- » Protect from humidity in July and August
- » Water lightly when dry during warm weather
- » Well-drained soil



# Rebutia heliosa

- » Origin: Mountainous areas in Bolivia
- » Frost hardy
- » Small clumping cactus that forms a mound
- » Flowers profusely
- » Height: under 6 inches
- » Filtered sun
- » Commonly grafted to avoid root problems
- » Water when dry during warm weather
- » Very porous soil



# Crassula cv “Moonglow”

(Crassula deceptor var arta X falcata)



- » South Africa
- » Protect from frost
- » Height 6-12 inches
- » Filtered sun
- » Water sparingly during warm weather
- » Allow to dry between watering
- » Use very porous soil
- » Prone to rot in cold moist weather



# Gymnocalycium baldanianum

- » Origin: Argentina (Catamarca)
- » Not frost hardy
- » Filtered sunlight
- » Grows slowly
- » Water when dry during warm weather
- » Well-drained soil



# Sulcorebutia canigueralii



- » Origin: Bolivia
- » Frost hardy
- » Slow growing clustering cactus that forms clumps
- » Need to overwinter in a cool place to enhance flowers
- » Water lightly when dry during warm weather
- » Well-drained soil





# X Graptosedum

## cv 'Vera Higgins'

- » Mexico
- » Min temp: 25 deg F
- » Cross between graptopetalum / sedum
- » Propagated from leaf cuttings
- » Named after first editor of the journal of the Cactus & Succulent Society of Great Britain
- » Filtered sun
- » Well-drained soil
- » Water when dry during warm weather



# Crassula pubescens ssp rattrayi



- » Origin: South Africa (Karoo)
- » Protect from frost
- » Forms dense rosettes to 5 inches
- » Filtered sun
- » Intense sun increases redness
- » Water lightly when dry during warm weather
- » Well-drained soil



# Free plant rules

- » One plant per person
- » Must stay until end of meeting
- » Please be courteous

# Raffle prices

- » \$1 per ticket
- » Six tickets for \$5





# Tucson Cactus and Succulent Society July 2013

Raffle plants  
Door prizes  
Free plants

**Presented by Donna and Robert Ellis**

# Raffle Plants

## Prices:

\$1 per ticket

Six tickets for \$5

# Gymnocalycium pugionacanthum



- ◉ Raffle plant
- ◉ Origin: Catamarca - Argentina
- ◉ Min temp: 14 deg F
- ◉ Height under 6 in.
- ◉ Propagated by seed
- ◉ Full / filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil

# Lobivia wegheiana

- [Raffle plant](#)
- Origin: Bolivia, Peru
- Min temp: 14 deg F
- Forms clusters
- Older plants produce long spines
- Has large tap root
- Filtered sunlight
- Water when dry during warm weather
- Keep dry in winter
- Use very draining and porous substrate



# Trichocereus candicans

## “Argentine Giant”



- Raffle plant
- Origin: Argentina
- Cold hardy to 14 deg F
- Blooms profusely
- Flowers are fragrant
- Forms clumps:
  - > Height: 18 to 24 inches
  - > Width: 36 to 48 inches
- Propagated from seeds, stem cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Matucana tuberculosa



- Raffle plant
- Origin: Peru
- Protect from frost
- Height under 6 inches
- Forms clusters
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Tends to lose roots in winter if kept wet and cold

# Yucca endlichiana

- [Raffle plant](#)
- Origin: Chihuahuan Desert, Mexico
- Min temp: 15 deg F
- Grows on limestone soils at 3,300 to 4,000 ft.
- Forms clusters
- Height: 6 to 12 in.
- Very slow growing
- Red-orange flower grows close to ground; opens to reveal white blossom
- Full / filtered sunlight
- Propagate by seeds, dividing offsets
- Water when dry during warm weather
- Keep dry in winter



# Dyckia Hybrid



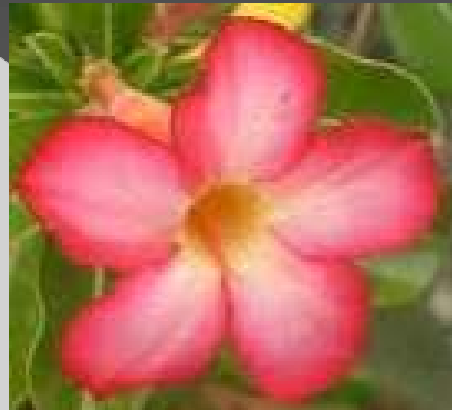
- Raffle plant
- Origin: Brazil
- Min temp: 20 deg F
- 120 species
- Most cold hardy of Bromeliad genera
- Forms a mat
- Lives on or around rocks
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Door Prizes

Pick up ticket as you  
enter

Must have your TCSS  
name tag

# Adenium arabicum



- ◉ Door Prize
- ◉ E Africa, S Arabia
- ◉ Hardy to 40 deg F
- ◉ Height: 5 ft.
- ◉ Propagate by cuttings, seeds
- ◉ Bloom: dark pink
- ◉ Full / filtered sun
- ◉ Needs perfect drainage
- ◉ Very prone to rot
- ◉ Keep dry in winter
- ◉ Water when dry during warm weather

# Euphorbia neohumbertii

- ◉ [Door prize](#)
- ◉ Origin: Madagascar
- ◉ Protect from frost
- ◉ All parts of plant are poisonous
- ◉ Height: 2 to 4 ft.
- ◉ May branch in time
- ◉ Deciduous
- ◉ Filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil



# Mammillaria schiedeana



- ◉ Door Prize
- ◉ Origin: Hidalgo, Mexico
- ◉ Protect from frost
- ◉ Clusters under 6 in.
- ◉ Propagate by cuttings, seeds
- ◉ Bloom: white/cream
- ◉ Full / filtered sun
- ◉ Slow growing
- ◉ Likes limestone
- ◉ Keep dry in winter
- ◉ Water when dry during warm weather

# Kalanchoe synsepala

## “Lobster Claw”

- [Door prize](#)
- Origin: Madagascar
- Protect from frost
- Height: 12 to 24 in.
- Flowers ‘walk’ from one pot to another
- Easy to grow
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Mammillaria plumosa



- ◉ Door Prize
- ◉ Origin: Northeastern Mexico
- ◉ Hardy to 20 deg F
- ◉ Forms low dense mounds to 16 inches
- ◉ Propagate by cuttings, seeds
- ◉ Touchable
- ◉ Bloom: white/cream
- ◉ Full / filtered sun
- ◉ Slow growing
- ◉ Keep dry in winter
- ◉ Water when dry during warm weather

# Mammillaria boolii

- ◉ [Door prize](#)
- ◉ Origin: Sonora, Mexico (sea level)
- ◉ Protect from frost
- ◉ Usually solitary but may cluster in time
- ◉ Full / filtered sun
- ◉ Water when dry during warm weather
- ◉ Use gritty soil
- ◉ Keep dry in winter
- ◉ May be prone to rotting



# Free Plants

## Rules:

One plant per person

Must stay until end of meeting

Please be courteous

Pick up your 'ABC- 123 Care Code Sheet' on free table

# Acanthocalycium thionanthum



- Free plant
- Origin: Argentina
- Cold hardy to 14 deg F
- Habitat: mountain slopes
- Strong spines
- Height: To 5 inches
- Width: 2 to 4 inches
- Usually solitary
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Echinopsis calorubra

## (White flowered form)

- [Free plant](#)
- Origin: Bolivia
- Cold hardy
- May cluster in time
- Flowers have scent of parsley
- Width: 6 to 9 inches
- Height: 6 to 12 inches
- Propagate from seeds, stem cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gymnocalycium chiquitanum



- Free plant
- Origin: Southern south America
- Protect from frost
- Flowers white to pink
- Flattened globular shape
- Strong spines
- Height: To 6 inches
- Width: 6 to 9 inches
- Forms clusters
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Gymnocalycium saglione

## ("Giant Chin Cactus")

- Free plant
- Origin: Argentina
- Cold hardy
- Solitary
- Width: up to 12 inches
- Height: up to 3 feet
- Propagate from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Micranthocereus streckeri



- Free Plant
- Origin: Brazil
- Protect from frost
- Width: Clusters to 3 ft.
- Height: up to 3 ft.
- Propagated from stem cuttings or seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus uebelmannianus

- [Free plant](#)
- Origin: Brazil
- Cold hardy
- Solitary
- Height: 6 to 12 inches
- Diameter: up to 6 inches
- Propagate from seeds (germinate in gelatin or agar)
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Notocactus werdermannianus



- Free Plant
- Origin: Uruguay
- Cold hardy
- Solitary
- Propagated from seed
- Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Oreocereus celsianus

## “Old Man of the Mountain”

- [Free plant](#)
- Origin: High altitudes in Argentina, Bolivia, Peru
- Cold hardy
- Forms clusters
- Height: Up to 10 ft.
- Propagate from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Oreocereus leucotrichus



- Free Plant
- Origin: Orico, N Chile
- Cold hardy
- Forms clusters
- Propagated from seed
- Amount of wool can vary
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Sulcorebutia menesesii

- [Free plant](#)
- Origin: Bolivia
- Grow in Andes at elevations 8000 to 12,000 ft.
- Cold hardy
- Form clusters
- Propagate from seeds
- Have a tap root
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Tephrocactus articulatus v diadematus



- Free Plant
- Origin: Argentina
- Cold hardy
- Forms large clusters
- Propagated from segments that are loosely attached and fall easily
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Weingartia pulquinensis

- [Free plant](#)
- Origin: Bolivia and Peru
- Protect from frost
- Usually solitary
- Diameter: up to 4 inches
- Height: up to 8 inches
- Benefits from regular re-potting
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Tucson Cactus and Succulent Society August 2013

Raffle plants  
Door prizes  
Free plants

Presented by Donna and Robert Ellis



# Raffle Plants

## Prices:

\$1 per ticket

Six tickets for \$5

# Sanseveria trifasciata

## cv 'Hahnii'



- Raffle plant
- Origin: Africa
- Protect from frost
- Suitable for growing indoors
- Height: 6-12 inches
- Propagated from pups
- All parts of plant are poisonous
- Shade / Filtered sun
- Water when dry during warm weather
- Keep fairly dry during winter
- Well-drained soil

# Espositoa melanostele

## ssp nana

- [Raffle plant](#)
- Origin: Peru
- Tender; protect from frost
- Stems cylindrical
- Up to 5 feet tall
- May form long lateral cephalum
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Crassula ovata

## cv "Sunset Jade"



- Raffle plant
- Origin: South Africa
- Protect from frost
- Easy to grow / resilient
- Fast growing
- Roots easily from cuttings
- Flowers are pale pink
- Full / Filtered sun
- Water when dry during warm weather
- Keep fairly dry during winter
- Well-drained soil

# Soehrensia uebelmanniana



- Raffle plant
- Origin: Argentina, Chile (mountains)
- Cold hardy
- May cluster in time
- Width: up to 12 inches
- Height: 4 to 6 feet
- Propagate from stem cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Matucana weberbaueri v flammeus

- [Raffle plant](#)
- Origin: Peru
- Protect from frost in cold locations
- Usually solitary, may form cluster in time
- Height: up to 24 in.
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Dyckia hybrid



- [Raffle plant](#)
- Origin: Central Brazil
- Min temp: 20 deg F
- 120 species
- Most cold hardy of Bromeliad genera
- Xeromorphic
- Has no internal water storage
- Forms a mat
- Lives on or around rocks
- Full sun
- Water when dry during warm weather
- Well-drained soil

# Door Prizes

Pick up ticket as you  
enter

Must have your name  
tag



# Aloe hybrid 'Nobilis'

- ◉ [Door prize](#)
- ◉ Origin: South Africa
- ◉ Hardy to 25 deg F
- ◉ Width: Clusters to 24 inches
- ◉ Height: up to 24 inches
- ◉ Propagated from offsets
- ◉ Full / Filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil



# Acanthocalycium thionanthum



- Door prize
- Origin: Argentina
- Cold hardy to 14 deg F
- Habitat: mountain slopes
- Strong spines
- Height: To 5 inches
- Width: 2 to 4 inches
- Usually solitary
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia ferox

- ◉ [Door prize](#)
- ◉ Origin: South Africa, Great Karoo
- ◉ Tolerates light frosts
- ◉ Width: Clusters to 18 inches
- ◉ Height: up to 12 inches
- ◉ Propagated from offsets
- ◉ Filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil



# Notocactus werdermannianus



- ◉ Door prize
- ◉ Origin: Uruguay
- ◉ Cold hardy
- ◉ Solitary
- ◉ Propagated from seed
- ◉ Filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil
- ◉ Keep dry in winter

# Micranthocereus streckeri

- ◉ [Door prize](#)
- ◉ Origin: Brazil
- ◉ Protect from frost
- ◉ Width: Clusters to 3 ft.
- ◉ Height: up to 3 ft.
- ◉ Propagated from stem cuttings or seed
- ◉ Full / filtered sun
- ◉ Water when dry during warm weather
- ◉ Well-drained soil



# Sulcorebutia menesesii



- Door prize
- Origin: Bolivia
- Grows in Andes at elevations 8000 to 12000 ft.
- Cold hardy
- Forms clusters
- Propagate from seeds
- Has a tap root
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Weingartia pulquinensis

- [Door prize](#)
- Origin: Bolivia and Peru
- Protect from frost
- Usually solitary
- Diameter: up to 4 inches
- Height: up to 8 inches
- Benefits from regular re-potting
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Free Plants

## Rules:

One plant per person

Must stay until end of meeting

Please be courteous



# Faucaria felina



- Free plant
- Origin: South Africa, Cape Province
- Tolerates short periods of frost
- Has soft white teeth
- Height: up to 5 inches
- Width: 2 to 4 inches
- Forms clusters
- Propagated from seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Pleiospilos nelii

- [Free plant](#)
- Origin: South Africa, Karoo
- Protect from frost
- Dwarf stemless succulent (Mesemb)
- Width: 2 to 4 inches
- Height: 2 to 3 inches
- Flowers form woody capsules - tiny seeds are splashed out by raindrops
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ihlenfeldtia vanzylii



- Free plant
- Origin: South Africa
- Protect from frost
- Resembles Cheiridopsis but seed capsules are similar to Titanopsis
- Height: up to 3 inches
- Width: up to 4 inches
- Forms clusters
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather; water sparingly to avoid bursting plant
- Well-drained soil

# Mammillaria carmenae

- [Free plant](#)
- Origin: Mexico
- Cold hardy
- May form offsets around base
- Width: 2 to 4 inches
- Height: up to 4 inches
- Propagate from seeds, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Coryphantha elephantidens



- Free plant
- Origin: Michoacán, Mexico
- Min temp: 28 deg F
- Forms clumps with age
- Flowers pink, white, yellow
- Forms offsets around base
- Propagated from cuttings or seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Escobaria hesteri

- [Free plant](#)
- Origin: Texas (Brewster Co)
- Cold hardy to 15 deg F
- Dwarf cactus
- Forms clusters by offsetting
- Height: up to 6 inches
- Diameter: up to 6 inches
- Prolific bloomer
- Propagated from seeds, offsets
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Thelocactus bicolor

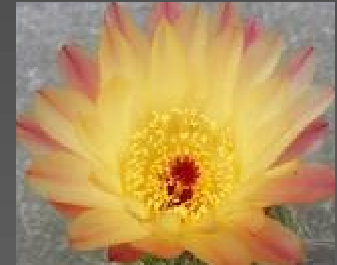
## 'Glory of Texas'



- Free plant
- Origin: Chihuahua desert from Texas to San Luis Potosi, Mexico
- Cold hardy
- Solitary
- Natural habitat: limestone or sandstone outcrops
- Propagated from seed
- Height: up to 12 inches
- Full sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Notocactus concinnus

- [Free plant](#)
- Origin: Uruguay
- Protect from frost
- Solitary
- Height: up to 6 inches
- Width: up to 4 inches
- Propagate from seeds
- Full / filtered sun
- Water when dry during warm weather
- Keep dry in winter
- Well-drained soil





# Thelocactus hexaedrophorus



- [Free plant](#)
- Origin: San Luis Potosi, Tamaulipas, Nuevo Leon, Mexico
- Cold hardy
- Solitary
- White flower
- Very slow growing
- Height: up to 8 inches
- Propagated from seed
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Mammillaria melanocentra ssp. rubrograndis

- [Free plant](#)
- Origin: Tamaulipas, Nuevo Leon Mexico
- Min temp: 20 deg F
- Solitary
- Height: up to 4 inches
- Width: up to 6 inches
- Propagated from cuttings, seeds
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum capricorne



- Free plant
- Origin: Chihuahua desert, northern Mexico
- Tolerates mild frost for short periods
- Solitary
- Small plants are globular; eventually become columnar
  - > Height: up to 1 foot or more
  - > Width: up to 6 inches
- Spines are stiff and pliable; serve as grass-like camouflage
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter



# Tucson Cactus and Succulent Society September 2013

**RAFFLE PLANTS**

**DOOR PRIZES**

**FREE PLANTS**

Presented by Donna and Robert Ellis

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Ferocactus gracilis



- Raffle plant
- Origin: Baja California (Mexico)
- Min temp: 20 deg F
- Slow growing, solitary
- Height: 3 to 5 feet
- Diameter: up to 12 inches
- Solitary
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Keep fairly dry during winter
- Well-drained soil

# Mammillaria rekoii

## ssp leptacantha

- Raffle plant
- Origin: Oaxaca, Mexico
- Min temp: 20 deg F
- Forms clusters
- Height: 9 inches
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Hoodia gordonii



- **Raffle plant**
- **Origin: South Africa, Namibia**
- **Frost hardy**
- **May form large clusters**
- **San tribes people use plant extract to suppress appetite on long hunting trips in Kalahari**
- **Related to Stapelia**
- **Flowers pollinated by flies**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Keep fairly dry during winter**
- **Well-drained soil**



# Echinopsis melanopotamica

- Raffle plant
- Origin: Argentina
- Min temp: 14 deg F
- Usually solitary, may cluster in time
- Forms cylindrical stem with strong spines
- Height: up to 36 in.
- Propagated from seeds or offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Buiningia brevicylindrica



- Raffle plant
- Origin: Brazil
- Protect from frost
- Grows into a cluster of short cylindrical stems
- Forms cephalium on side of plant
- Width: up to 7 inches
- Height: up to 11 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Jatropha podagrica

- Raffle plant
- Origin: Central America, Honduras, Nicaragua
- Protect from frost
- Height: to 18 inches
- Member of Euphorbia family
- All parts of plant are poisonous
- Aka 'Buddha Belly'
- Filtered sun / partial shade
- Water when dry during warm weather
- Well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Dorstenia crispa x foetida



- Door prize
- Origin: Native to vast area from North and East Africa to Arabian peninsula
- Protect from frost !!
- May form clusters
- Disk-shaped flower structure contains multitude of miniscule flowers
- Height: 12 to 15 inches
- Propagated via seedpods that explode when ripe
- Drops leaves during winter rest
- Filtered sun / partial shade
- Water when dry during warm weather
- Well-drained soil

# Acanthocalycium thionanthum

- Door prize
- Origin: Argentina
- Cold hardy to 14 deg F
- Habitat: mountain slopes
- Strong spines
- Height: To 5 inches
- Width: 2 to 4 inches
- Usually solitary
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Monadenium ritchiei



- Door prize
- Origin: East Africa, Kenya
- Protect from frost
- Forms compact clumps
- Height: up to 10 inches
- Propagated from offsets
- Leaves and stems may take purple hue in cool weather
- Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Sulcorebutia menesesii

- Door prize
- Origin: Bolivia
- Grows in Andes at elevations 8000 to 12000 ft.
- Cold hardy
- Forms clusters
- Propagated from seeds
- Has a tap root
- Filtered sun
- Water when dry during warm weather
- Well-drained soil





# Micranthocereus streckeri



- Door prize
- Origin: Brazil
- Protect from frost
- Width: Clusters to 3 ft.
- Height: up to 3 ft.
- Propagated from stem cuttings or seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ihlenfeldtia vanzylii



- Door prize
- Origin: South Africa
- Protect from frost
- Height: up to 3 inches
- Width: up to 4 inches
- Forms clusters
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather; water sparingly to avoid bursting plant
- Well-drained soil

# Weingartia pulquinensis

- Door prize
- Origin: Bolivia and Peru
- Protect from frost
- Usually solitary
- Diameter: up to 4 inches
- Height: up to 8 inches
- Benefits from regular re-potting
- Filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## **Rules:**

**One plant per person**

**Must stay until end of meeting**

**Please be courteous**

# Faucaria felina

- Free plant
- Origin: South Africa, Cape Province
- Tolerates short periods of frost
- Has soft white teeth
- Height: up to 5 inches
- Width: 2 to 4 inches
- Forms clusters
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Leuchtenbergia principis



- Free plant
- Origin: Occurs sparsely over a large area in north-central Mexico
- Protect from frost
- Solitary ; very slow growing
- May hybridize with Ferocactus
- Height: to 27 inches
- Long papery spines resemble grass and camouflage plant in its desert grassland habitat
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria carmenae

- Free plant
- Origin: Mexico
- Cold hardy
- May form offsets around base
- Width: 2 to 4 inches
- Height: up to 4 inches
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Matucana madisoniorum

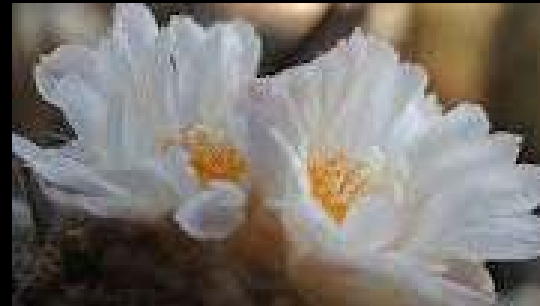


- Free plant
- Origin: Peru
- Protect from frost
- Solitary; may clump in time
- Spination is variable
- Height: to 6 inches
- Diameter: to 4 inches
- Propagated from seed or offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ariocarpus retusus ssp retusus

- Free plant
- Origin: Mexico
- Cold hardy to 14 deg F
- Solitary and slow growing
- Habitat: high Chihuahuan desert
- Flat tuberous body lies below soil and projects tubercles above ground
- Height: up to 5 inches
- Diameter: up to 10 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry during cold weather



# Mammillaria loydii



- Free plant
- Origin: San Luis Potosi, Mexico
- Cold hardy
- Solitary
- Rare in private collections
- Propagated from seed
- Height: up to 4 inches
- Diameter: up to 6 inches
- Full sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Mammillaria glassii

- Free plant
- Origin: Mexico
- Cold hardy
- Offsets profusely
- Forms a beautiful low, white mat
- Height: up to 6 inches
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Keep dry in winter
- Well-drained soil



# Thelocactus rinconensis



- **Free plant**
- **Origin: Coahuila and Nuevo Leon, Mexico**
- **Cold hardy**
- **Solitary; has depressed stem**
- **White flower**
- **Height: up to 5 inches**
- **Diameter: up to 8 inches**
- **Propagated from seed**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**
- **Keep dry in winter**

# Ferocactus macrodiscus

- Free plant
- Origin: San Luis Potosi, Guanajuato, Mexico
- Min temp: 25 deg F
- Solitary; slow growing
- Aka: 'Candy Barrel'
- Height: up to 12 inches
- Diameter: up to 12 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Ferocactus cylindraceus

## ssp tortulispinus



- Free plant
- Origin: Baja California
- Tolerates mild frost
- Usually solitary
- Small plants are globular; eventually become columnar
  - Height: up to 4 feet
  - Diameter: up to 16 inches
- Spines are stiff and pliable; color is variable
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Obregonia denegrii

- Free plant
- Origin: Tamaulipas, Mexico
- Min temp: 25 deg F
- Solitary; slow growing
- Monospecific genus
- Height: up to 6 inches
- Diameter: up to 6 inches
- Contains psychotropic alkaloids
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Echinocereus rigidissimus

## ssp rubispinus



- Free plant
- Origin: Chihuahua, Mexico
- Min temp: 15 deg F
- Solitary
  - Height: up to 8 inches
  - Diameter: up to 4 inches
- Spine color varies between reddish brown, grey, pink, and white in alternating horizontal bands
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in cold weather





# Tucson Cactus and Succulent Society October 2013

**RAFFLE PLANTS  
DOOR PRIZES  
FREE PLANTS**

Presented by Donna and Robert Ellis

# RAFFLE PLANTS

**Prices:**

**\$1 per ticket**

**Six tickets for \$5**

# Ferocactus viridescens v orcuttii



- Raffle plant
- Origin: Baja California (Mexico) and southwestern California
- Aka "Coast Barrel" or "San Diego Barrel"
- Min temp: 25 deg F
- Found in rocky coastal bluffs
- Usually solitary
  - Width: up to 10 inches
  - Height: up to 15 inches
- Propagated from seed
- Full/ filtered sun
- Water when dry during warm weather
- Well-drained soil

# Mammillaria albicoma

- Raffle plant
- Origin: San Luis Potosi, Nuevo Leon, Tamaulipas Mexico
- Min temp: 30 deg F
- Forms flat mats
  - Height: up to 6 inches
  - Diameter: up to 9 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil



# Melocactus concinnus



- Raffle plant
- Origin: Brazil
- Vulnerable to any frost
- One of the smaller melocacti
  - Width: 4 to 7 inches
  - Height: up to 6 inches
- Usually solitary
- Shape: "Squashed ball"
- Forms cephalum
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Euphorbia fruticosa



- Raffle plant
- Origin: Yemen
- Min temp: 32 deg F
- Columnar, branching at the base
  - Width: up to 4 inches
  - Height: up to 20 inches
- Propagated by cuttings
- Filtered sun/shade
- Can be grown as a houseplant
- Water when dry during warm weather
- Well-drained soil

# Coryphantha cornifera

- **Raffle plant**
- **Origin: Queretero, Hidalgo, Guanajuato, San Luis Potosi, Mexico**
- **Min temp: 30 deg F**
- **Usually solitary**
- **Globose to cylindrical**
  - **Height: up to 6 inches**
  - **Diameter: up to 6 inches**
- **Propagated from seeds**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Use well-drained soil**



# Euphorbia spp



- Raffle plant
- Origin: Africa, Madagascar, north and south America
- Min temp: 32 deg
- 2000 diverse species in genus
- Most have a poisonous milky sap
- Also referred to as "spurges"
- Propagated from seeds and cuttings
- Full / filtered sun
- Water when dry during warm weather
- Use well-drained soil





# DOOR PRIZES

**Pick up ticket as you enter**

**Must have your name tag**



# Euphorbia horrida

- Door prize
- Origin: South Africa (lower Great Karoo)
- Min temp: 25 deg F
- Forms clusters
  - Height: up to 24 inches
  - Diameter: up to 7 inches
- Stiff spines are dried remnants of flower stalks
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Rabiea difformis



- Door prize
- Origin: South Africa (Cape Province)
- Protect from frost
- Forms low mat for groundcover
  - Height: up to 6 inches
- Propagated from seeds or by dividing rhizomes
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

# Ferocactus gracilis



- Door prize
- Origin: Baja California (Mexico)
- Min temp: 20 deg F
- Slow growing, solitary
- Height: 3 to 5 feet
- Diameter: up to 12 inches
- Solitary
- Propagated from seed
- Full sun
- Water when dry during warm weather
- Keep fairly dry during winter
- Well-drained soil

# Ferocactus macrodiscus

- Door prize
- Origin: San Luis Potosi, Guanajuato, Mexico
- Min temp: 25 deg F
- Solitary; slow growing
- Aka: 'Candy Barrel'
- Height: up to 12 inches
- Diameter: up to 12 inches
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Micranthocereus streckeri



- Door prize
- Origin: Brazil
- Protect from frost
- Width: Clusters to 3 ft.
- Height: up to 3 ft.
- Propagated from stem cuttings or seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil

# Thelocactus rinconensis ssp freudenbergerii



- Door prize
- Origin: Coahuila and Nuevo Leon, Mexico
- Cold hardy
- Solitary; has depressed stem
- Height: up to 5 inches
- Diameter: up to 8 inches
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Matucana madisoniorum



- Door prize
- Origin: Peru
- Protect from frost
- Solitary; may clump in time
- Spination is variable
- Height: to 6 inches
- Diameter: to 4 inches
- Propagated from seed or offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# FREE PLANTS

## Rules:

One plant per person

Must stay until end of meeting

Please be courteous

# Euphorbia stellata

- **Free plant**
- **Origin: South Africa, Madagascar**
- **Min temp: 25 deg F**
- **Solitary caudiciform plant**
  - **Height: up to 6 inches**
  - **Width: up to 3 inches**
- **Propagated from seeds and cuttings**
- **Slow growing**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Keep dry in winter**
- **Well-drained soil**



# Aloe marlothii

- **Free plant**
- **Origin: Southern Africa**
- **Tolerates short periods of frost**
- **Grows into large robust single stem plant**
  - **Height: up to 12 feet**
  - **Width: up to 3 feet**
- **Propagated from seeds**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Ferocactus latispinus



- **Free plant**
- **Origin: Central, south Mexico**
- **Can tolerate light frost**
- **Blooms early in year**
- **Small flat topped barrel cactus**
  - **Height: up to 12 inches**
  - **Width: up to 16 inches**
- **Full / filtered sun**
- **Water when dry: during warm weather**
- **Use highly porous, well-drained soil**



# Aloe wickensii

- **Free plant**
- **Origin: Southern Africa**
- **Min temp: 20-25 deg F**
- **Grows into large plant with rosettes**
  - **Height: up to 3 feet**
  - **Width: up to 3 feet**
- **Propagated from seeds**
- **Full / filtered sun**
- **Water when dry during warm weather**
- **Well-drained soil**



# Peniocereus marianus



- **Free plant**
- **Origin: Sonora and Sinaloa, Mexico**
- **Tolerates frost**
- **Night blooming**
- **Flowers are half the size of P. greggii**
- **Full / filtered sun**
- **Water when dry: during warm weather**
- **Use highly porous, well-drained soil**



# Coryphantha hesteri

- Free plant
- Origin: Southwestern Texas
- Tolerates frost
- Dwarf cactus: up to 2 inches wide
- Habitat: semi-desert grasslands and oak-juniper-pinyon
- Usually solitary but clusters with age
- Prolific bloomer
- Grows very slowly
- Propagated from seeds and cuttings
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Bursera microphylla



- **Free plant**
- **Origin: California, Arizona**
- **Tolerates frost**
- **Forms a shrub or small tree with a caudiciform trunk**
- **Height: 12-15 feet**
- **Has a fragrant, spicy odor**
- **Propagated by removal of offsets**
- **Full/filtered sun**
- **Water when dry during warm weather**
- **Use highly porous, well-drained soil**





# Moringa ovalifolia

- Free plant
- Origin: Namibia
- Protect from frost
- Grows into a tree up to 30 feet in height
- Has a solitary, succulent bottle-shaped trunk
- Fairly fast growing
- Propagated from seed
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Gasteria gracilis variegata



- Free plant
- Origin: Nursery cultivar
- Protect from frost
- Forms rosettes up to 8 inches in diameter
- Propagated by removal of offsets
- Filtered sun
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Faucaria felina

- Free plant
- Origin: South Africa, Cape Province
- Tolerates short periods of frost
- Has soft white teeth
- Height: up to 5 inches
- Width: 2 to 4 inches
- Forms clusters
- Propagated from seeds
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Sempervivum arachnoideum



- Free plant
- Alps and Carpathian Mtns
- Forms mats of rosettes called 'hens and chicks'
- Frost hardy
- In Europe traditionally grown on rooftops between thatching, tiles, or timbers, hence the name 'House Leeks'
- Does well in rock crevices
- Full / filtered sun
- Water when dry during warm weather
- Use highly porous, well-drained soil



# Mammillaria carmenae

- Free plant
- Origin: Mexico
- Cold hardy
- May form offsets around base
- Width: 2 to 4 inches
- Height: up to 4 inches
- Propagated from seeds, offsets
- Full / filtered sun
- Water when dry during warm weather
- Well-drained soil



# Astrophytum capricorne



- Free plant
- Origin: Chihuahua desert, northern Mexico
- Tolerates mild frost for short periods
- Solitary
- Small plants are globular; eventually become columnar
  - Height: up to 1 foot or more
  - Width: up to 6 inches
- Spines are stiff and pliable; serve as grass-like camouflage
- Full / Filtered sun
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter

# Pachypodium namaquanum

- Free plant
- Origin: Southern Africa (Richtersveld)
- Can tolerate light frost
- Usually solitary
- Forms tree up to 10 feet tall
- Grows extremely slowly
- Full / filtered sun
- Water when dry during warm weather
- Keep dry in winter
- Well-drained soil



# Pachypodium lamerei



- **Free plant**
- Origin: Madagascar
- Protect from frost
- Forms tree up to 15 feet tall
  - Stems up to 12 inches in width
- Leaves are deciduous in winter
- Can be grown indoors
- Propagate by seed or removal of offshoots that form at base
- Filtered sun/shade
- Water when dry during warm weather
- Well-drained soil
- Keep dry in winter



# Fockea edulis

- Free plant
- Origin: Southern Africa
- Takes frost for a short time
- Two kinds of branches: tree-like and vine
- Semi-deciduous caudiciform
- Full / filtered sun
- Water when dry during warm weather
- Keep dry in winter
- Well-drained soil



# Euphorbia ferox

- Free plant
- Origin: South Africa, Great Karoo
- Tolerates light frosts
- Width: Clusters to 18 inches
- Height: up to 12 inches
- Propagated from offsets
- Filtered sun
- Water when dry during warm weather
- Well-drained soil

