ARIZONA ADMINISTRATIVE CODE

TITLE 3. AGRICULTURE

CHAPTER 3. DEPARTMENT OF AGRICULTURE - ENVIRONMENTAL SERVICES DIVISION

ARTICLE 11. ARIZONA NATIVE PLANTS

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ARTICLE 11. ARIZONA NATIVE PLANTS

R3-3-1101. Definitions

In addition to the definitions in A.R.S. § 3-901, the following terms apply to this Article:

“Agent” means a person authorized to manage, represent, and act for a landowner.

“Certificate of inspection for interstate shipments” means a certificate to transport protected native plants out of the state.

“Conservation” means prevention of exploitation, destruction, or neglect of native plants while helping to ensure continued public use.

“Cord” means a specific type string or small rope issued by the Department for attaching tags and seals to protected native plants.

“Cord of wood” means a measurement of firewood equal to 128 cubic feet.

“Department” means the Arizona Department of Agriculture.

“Destroy” means to cause the death of any protected native plant.

“Harvest restricted native plant permit” means a permit required to remove the by-products, fibers, or wood from a native plant listed in Appendix A, subsection (D).

“Landowner” means a person who holds title to a parcel of land.

“Noncommercial salvage permit” means a permit required for the noncommercial salvage of a highly safeguarded native plant.

“Original growing site” means a place where a plant is growing wild and is rooted to the ground or any property owned by the same landowner where a protected native plant is relocated or transplanted without an original transportation permit.

“Permittee” means any person who is issued a permit by the Department for removing and transporting protected native plants.

“Protected native plant” means any living plant or plant part listed in Appendix A and growing wild in Arizona.

“Protected native plant tag” means a tag issued by the Department to identify the lawful removal of a protected native plant, other than a saguaro cactus, from its original growing site.

“Saguaro tag” means a tag issued by the Department to identify a saguaro cactus being lawfully moved.

“Salvage assessed native plant permit” means a permit required to remove a native plant listed in Appendix A, subsection (C).

“Salvage restricted native plant permit” means a permit required to remove a native plant listed in Appendix A, subsection (B).

“Scientific permit” means a permit required to remove a native plant for a controlled experimental project by a qualified person.

“Securely tie” means to fasten in a tight and secure manner to prevent the removal of tags, seals, or cord for reuse.

“Small Native Plant” means any protected plant eight inches in height or less.

“Survey” means the process by which a parcel of land is examined for the presence of protected native plants. A simple survey determines only whether protected native plants are present. A complete survey establishes the kind and number of each species present.

“Wood receipt” means a receipt issued by the Department to identify the lawful removal of a protected native plant harvested for fuel, being removed from its original growing site.

Historical Note

New Section recodified from R3-4-601 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1102. Protected Native Plant Destruction by a Private Landowner

**A.** Notice of intent.

1. Before a protected native plant is destroyed, the private landowner shall provide

the following information to the Department on a form obtained from the Department:

a. Name, address, and telephone number of the landowner;

b. Name, address, and telephone number of the landowner’s agent, if applicable;

c. Valid documentation indicating land ownership, including but not limited to a parcel identification number, tax assessment, or deed;

d. Legal description, map, address, or other description of the area, including the number of acres to be cleared, in which the protected native plants subject to the destruction are located;

e. Earliest date of plant destruction; and

f. Landowner’s intent for the disposal or salvage of protected native plants on the land.

2. A landowner intending to destroy protected native plants on an area of less than one acre may submit the information required in subsection (A)(1) to the Department verbally.

**B.** A landowner shall not destroy a protected native plant until:

1. The landowner receives a written confirmation notice from the Department, and

2. Notice is given to the Department within the following minimum time periods:

a. Twenty days before the plants are destroyed over an area of less than one acre.

b. Thirty days before the plants are destroyed over an area of one acre or more but less than 40 acres.

c. Sixty days before the plants are destroyed over an area of 40 acres or more.

**C.** The Department shall provide a salvage operator or other interested person with a copy of a notice of intent submitted under this Section upon receipt of the private landowner’s name, address, telephone number, and payment of an annual $25 nonrefundable fee.

Historical Note

New Section recodified from R3-4-602 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1103. Disposal and Salvage of Protected Native Plants by a State Agency

**A.** A state agency intending to remove or destroy protected native plants shall notify the Department, under A.R.S. § 3-905, and shall propose a method of disposal from the following list:

1. The plants may be sold at a public auction;

2. The plants may be relocated or transported to a different location on the same property or to another property owned by the state, without obtaining a permit;

3. The plants may be donated to nonprofit organizations as provided in A.R.S. § 3-916;

4. The plants may be donated to another state agency or political subdivision, without obtaining a permit; or

5. The plants may be salvaged or harvested by a member of the general public or a commercial dealer, if the person holds a permit as provided under A.R.S. § 3-906 or 3-907.

**B.** If the plants are highly safeguarded native plants, they shall first be made available to the holder of a scientific permit or a noncommercial salvage permit.

Historical Note

New Section recodified from R3-4-603 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1104. Protected Native Plant Permits; Tags; Seals; Fees

**A.** A person shall not collect, transport, possess, sell, offer for sale, dispose, or salvage protected native plants unless that person is 18 years of age or older and possesses an appropriate permit.

**B.** An applicant shall submit the following information to the Department on a form obtained from the Department, as applicable:

1. Name, business name, address, telephone number, Social Security number or tax identification number, and signature of the applicant;

2. Name and number of plants to be removed;

3. Purpose of the plant removal;

4. Whether the applicant has a conviction for a violation of a state or federal statute regarding the protection of native plants within the previous five years;

5. Except for salvage assessed native plants;

a. Name, address, telephone number, and signature of the landowner;

b. Location of the permitted site and size of acreage;

c. Destination address where the plants will be transplanted;

d. Legal and physical description of the location of the original growing site; and

e. Parcel identification number for the permitted site or other documents proving land ownership.

**C.** Permit fees.

1. A person removing and transporting protected native plants shall submit the following applicable fee to the Department with the permit application:

a. Salvage assessed native plant permit, annual use, $35;

b. Harvest restricted native plant permit, annual use, $35;

c. All other native plant permits, one-time use, $7;

d. Certificate of inspection for interstate shipments, $15.

2. Exemptions. Protected native plants are exempt from fees if:

a. The protected native plants intended for personal use by a landowner are taken from one piece of land owned by the landowner to another piece of land also owned by the landowner, remain on the property of the landowner, and are not sold or offered for sale;

b. The protected native plants are collected for scientific purposes; or

c. A landowner donates the protected native plant to a scientific, educational, or charitable institution.

**D.** Tag and harvesting fees.

1. Any person obtaining a saguaro tag or other protected native plant tag or receipt shall submit the following applicable fee to the Department at the time a tag is obtained:

a. Saguaro, $8 per plant;

b. Trees cut for firewood and listed in the harvest restricted category, $6 per cord of wood;

c. Small native plant, $.50 per plant;

d. Any other protected native plant referenced in A.R.S. § 3-903(B) and (C) and listed in Appendix A, $6 per plant.

2. The fee for harvesting *nolina* or *yucca* parts is $6 per ton. Payment shall be made to the Department in the following manner:

a. Unprocessed nolina or yucca fiber shall be weighed on a state-certified bonded scale; and

b. The harvester shall submit payment and weight certificates to the Department no later than the tenth day of the month following each harvest.

**E.** Seal fees. A person obtaining a seal shall submit a $.15 per plant fee to the Department at the time a seal is obtained.

**F.** Salvage assessed native plant permits and plant tags are valid for the calendar year in which they are issued. The tags expire at the end of the calendar year unless the permit is renewed.

Historical Note

New Section recodified from R3-4-604 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1105. Scientific Permits; Noncommercial Salvage Permits

**A.** Scientific Permit

1.A person shall not collect any highly safeguarded or other protected native plants for a research project unless that person holds a scientific permit.

2. An applicant shall submit the following information to the Department on a form obtained from the Department:

a. Name, address, and telephone number of the company or research facility applying for the permit;

b. Name, title and experience of the person conducting the research project;

c. Purpose and intent of the research project;

d. Controls to be used;

e. Variables to be considered;

f. Time-frame for the project;

g. Anticipated results and plans for publication;

h. Reports and recordkeeping that will be used to monitor the project;

i. Project funding source;

j. Funding of the company or research facility;

k. Written authorization from the landowner for collection of the plants;

l. Date of the application;

m. Signed affirmation by the applicant that the plants collected will not be sold or used for personal interests; and

n. Tax identification number, or if applicant is an individual, a Social Security number.

3. A scientific permit shall be issued if the applicant provides documentation that demonstrates the following:

a. A plan, pre-approved by the landowner, to restore the removal site to a natural appearance;

b. The removal and movement of the native plants shall be accomplished by a person experienced in native plant removal and transplantation;

c. The native plants used in the project shall remain accessible to the Department;

d. The ecology of the project site is beneficial to the growth of the specific plants in the project if practical;

e. Arrangements exist for a suitable permanent planting site for the surviving plants after the project’s completion; and

f. Description of plant disposition and research hypothesis.

4. A scientific permit is valid for the calendar year in which it is issued.

**B.** Noncommercial salvage permit:

1. Highly safeguarded native plants may only be collected for conservation by a person holding a noncommercial salvage permit.

2. An applicant shall submit the following information to the Department, on a form obtained from the Department:

a. Name, address, and telephone number of the applicant applying for the permit;

b. Proposed relocation site for the plants;

c. Written authorization from the landowner for collection of the plants;

d. Date of the application; and

e. Signed affirmation by the applicant that the plants collected will not be sold or used for personal interests.

3. A noncommercial salvage permit shall be issued if all of the following conditions are met through documentation provided to the Department:

a. The native plants used in the project shall be accessible to the Department after transplant, and

b. The relocation site is beneficial to the growth of the specific plants in the project.

4. A noncommercial salvage permit is valid only for the transportation and the transplantation of the particular native plant.

Historical Note

New Section recodified from R3-4-605 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1106. Protected Native Plant Survey; Fee

**A.** Upon request, the Department may conduct a native plant survey. Upon completion, the Department shall notify the individual who made the request of:

1. The date the survey was performed;

2. The amount of the survey fee payable to the Department;

3. The name of Department personnel performing the survey;

4. Upon payment, the survey results including the names and numbers of protected native plants.

**B.** A person who requests a native plant survey shall pay the survey fee to the Department within 30 days from the date of the notification. The survey fee shall be based on time and travel expenses, except that no fee shall be charged for a determination of whether protected species exist on the land.

Historical Note

New Section recodified from R3-4-606 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1107. Movement Permits; Tags, Seals, and Cord Use

**A.** Any person moving a protected native plant, except a saguaro cactus, previously transplanted from its original growing site in Arizona and transplanting it to another location shall apply to the Department for a Movement Permit. The landowner from where the plant is being moved shall provide the following information on the permit application:

1. The name, telephone number, and signature of the landowner;

2. The location of the plant;

3. The name, address, and telephone number of the receiver;

4. The name, address, and telephone number of the carrier;

5. The number, species, and description of the plant being removed;

6. The tax parcel identification number; and

7. The date of the application.

**B.** Any person moving a saguaro cactus over four feet tall previously transplanted from its original growing site in Arizona and transplanting it to another location shall apply to the Department for a Movement Permit. The landowner from where the saguaro cactus is being moved shall provide the following information on the permit application, unless the applicant maintains a record of the original permit or verifies the Department has a record of a previous legal movement of the cactus by the applicant.

1. The name, telephone number, and signature of the landowner;

2. The address where the saguaro cactus is located;

3. The name, address, and telephone number of the receiver;

4. The name, address, and telephone number of the carrier;

5. The number, species, and description of the plant being removed;

6. The tax parcel identification number of the property where the saguaro cactus is being moved; and

7. The date of the application.

**C.** Movement of protected native plants obtained outside Arizona.

1. Any person moving a protected native plant obtained outside Arizona and transporting and planting it within the state shall declare the protected native plant at the agricultural inspection station nearest the port of entry. The Department shall place the protected native plant under “Warning Hold” to the nearest permitting office.

2. If an agricultural station is not in operation at the port of entry, the person shall declare the protected native plant at the nearest permitting office during normal office hours.

3. After the plants have been declared, the permitting office shall issue a Movement Permit and seal.

**D.** Any person moving protected native plants shall obtain the following seals from the Department and securely attach the appropriate seal to each protected native plant:

1. Protected native plant seals identify protected native plants, except saguaro cacti, that will be moved from locations that are not the original growing sites.

2. Imported seals identify all imported protected native plants.

**E.** Tag, seal, and cord attachment.

1. A permittee shall attach a tag to each protected native plant taken from its original growing site, using cord provided by the Department, before transport. No other type of rope, string, twine, or wire is allowed.

2. The cord shall be securely tied around the plant, and the tag attached so that it cannot be removed without breaking the seal or cutting the cord.

3. The tag shall be placed directly over the knot in the cord and the ends pressed firmly together sealing the knot so that it cannot be removed for reuse.

4. The protected native plant seal shall be placed directly over the knot and snapped firmly closed, sealing the knot.

5. The imported seal shall be attached directly to the plant.

6. Upon loading the plant, every effort shall be made to allow visibility of the tag during transport.

Historical Note

New Section recodified from R3-4-607 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1108. Recordkeeping; Salvage Assessed and Harvest Restricted Native Plants

**A.** Salvage Assessed Native Plants.

1. A permittee shall maintain a record of each protected native plant removed under an annual permit for two years from the date of each transaction and allow Department inspection of the records during normal business hours. The transaction record shall include the date salvage restricted protected native plants were removed and the permit and tag numbers.

2. Annually, by January 31, a permittee shall submit to the Department a copy of each transaction record for the prior calendar year.

**B.** Harvest Restricted Native Plants. A permittee shall submit to the Department by the tenth day of each month the transaction records for the previous month, or a written statement that no transactions were conducted for that month.

Historical Note

New Section recodified from R3-4-608 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1109. Arizona Native Plant Law Education

**A.** The Department may schedule seminars and training courses on an as-needed basis.

**B.** In addition to the following fees, charges for printed materials or pamphlets shall be assessed based upon printing and mailing costs:

1. A person attending a seminar or training course on Arizona native plant law shall pay a nonrefundable fee of $10 to the Department before attending the class.

2. A person convicted of violating Arizona native plant laws and ordered by a court to attend a native plant educational class shall pay a nonrefundable fee of $25 to the Department before attending the class. The Department shall provide written confirmation of satisfactory completion to a person ordered by a court to attend a class.

Historical Note

New Section recodified from R3-4-609 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1110. Permit Denial

Upon notice of denial of a permit, an applicant may request, in writing, that the Department provide an administrative hearing under A.R.S. Title 41, Chapter 6, Article 10, to appeal the denial.

Historical Note

New Section recodified from R3-4-610 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

R3-3-1111. Repealed

Historical Note

New Section recodified from R3-4-611 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Repealed by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).

Appendix A. Protected Native Plants by Category

**A.** Highly safeguarded native plants as prescribed in A.R.S. § 3-903(B)(1), for which removal is not allowed except as provided in R3-3-1105:

AGAVACEAE Agave Family

*Agave arizonica* Gentry & Weber–Arizona agave

*Agave* *delamateri* Hodgson & Slauson

*Agave murpheyi* Gibson–Hohokam agave

*Agave parviflora* Torr.–Santa Cruz striped agave, Small-flowered agave

*Agave phillipsiana* Hodgson

*Agave schottii* Engelm. var. *treleasei* (Toumey) Kearney & Peebles

APIACEAE Parsley Family. [= Umbelliferae]

*Lilaeopsis schaffneriana* (Schlecht.) Coult. & Rose ssp. *recurva* (A. W. Hill) Affolter–Cienega false rush, Huachuca water umbel.  
Syn.: *Lilaeopsis recurva* A. W. Hill

APOCYNACEAE Dogbane Family

*Amsonia kearneyana* Woods.–Kearney’s bluestar

*Cycladenia humilis* Benth. var. *jonesii* (Eastw.) Welsh & Atwood–Jones’ cycladenia

ASCLEPIADACEAE Milkweed Family

*Asclepias welshii* N. & P. Holmgren–Welsh’s milkweed

ASTERACEAE Sunflower Family [= Compositae]

*Erigeron lemmonii* Gray–Lemmon fleabane

*Erigeron rhizomatus* Cronquist–Zuni fleabane

*Senecio franciscanus* Greene–San Francisco Peaks groundsel

*Senecio huachucanus* Gray–Huachuca groundsel

BURSERACEAE Torch Wood Family

*Bursera fagaroides* (H.B.K.) Engler–Fragrant bursera

CACTACEAE Cactus Family

*Carnegiea gigantea* (Engelm.) Britt. & Rose–Saguaro: ‘Crested’ or ‘Fan-top’ form  
Syn.: *Cereus giganteus* Engelm.

*Coryphantha recurvata* (Engelm.) Britt. & Rose–Golden-chested beehive cactus  
Syn.: *Mammillaria recurvata* Engelm.

*Coryphantha robbinsorum* (W. H. Earle) A. Zimmerman–Cochise pincushion cactus, Robbin’s cory cactus.   
Syn.: *Cochiseia robbinsorum* W.H. Earle

*Coryphantha scheeri* (Kuntze) L. Benson var. *robustispina* (Schott) L. Benson–Scheer’s strong-spined cory cactus.  
Syn.: *Mammillaria robustispina* Schott

*Echinocactus horizonthalonius* Lemaire var. *nicholii* L. Benson–Nichol’s Turk’s head cactus

*Echinocereus triglochidiatus* Engelm. var. *arizonicus* (Rose ex Orcutt) L. Benson–Arizona hedgehog cactus

*Echinomastus erectocentrus* (Coult.) Britt. & Rose var. *acunensis* (W.T. Marshall) L.Benson–Acuna cactus   
Syn.: *Neolloydia erectocentra* (Coult.) L. Benson var. *acunensis* (W. T. Marshall) L. Benson

*Pediocactus bradyi* L. Benson–Brady’s pincushion cactus

*Pediocactus paradinei* B. W. Benson–Paradine plains cactus

*Pediocactus peeblesianus* (Croizat) L. Benson var. *fickeiseniae* L. Benson

*Pediocactus peeblesianus* (Croizat) L. Benson var. *peeblesianus* Peebles’ Navajo cactus, Navajo plains cactus  
Syn.: *Navajoa peeblesiana* Croizat

*Pediocactus sileri* (Engelm.) L. Benson–Siler pincushion cactus   
Syn.: *Utahia sileri* (Engelm.) Britt. & Rose

COCHLOSPERMACEAE Cochlospermum Family

*Amoreuxia gonzalezii* Sprague & Riley

CYPERACEAE Sedge Family

*Carex specuicola* J. T. Howell–Navajo sedge

FABACEAE Pea Family [=Leguminosae]

*Astragalus cremnophylax* Barneby var. *cremnophylax* Sentry milk vetch

*Astragalus holmgreniorum* Barneby–Holmgren milk-vetch

*Dalea tentaculoides* Gentry–Gentry indigo bush

LENNOACEAE Lennoa Family

*Pholisma arenarium* Nutt.–Scaly-stemmed sand plant

*Pholisma sonorae* (Torr. ex Gray) Yatskievych–Sandfood, sandroot  
 Syn.: *Ammobroma sonorae* Torr. ex Gray

LILIACEAE Lily Family

*Allium gooddingii* Ownbey–Goodding’s onion

ORCHIDACEAE Orchid Family

*Cypripedium calceolus* L. var. *pubescens* (Willd.) Correll–Yellow lady’s slipper

*Hexalectris warnockii* Ames & Correll–Texas purple spike

*Spiranthes delitescens* C. Sheviak

POACEAE Grass Family [=Gramineae]

*Puccinellia parishii* A.S. Hitchc.–Parish alkali grass

POLYGONACEAE Buckwheat Family

*Rumex orthoneurus* Rech. f.

PSILOTACEAE Psilotum Family

*Psilotum nudum* (L.) Beauv. Bush Moss, Whisk Ferm

RANUNCULACEAE Buttercup Family

*Cimicifuga arizonica* Wats.–Arizona bugbane

*Clematis hirsutissima* Pursh var. *arizonica* (Heller) Erickson–Arizona leatherflower

ROSACEAE Rose Family

*Purshia subintegra* (Kearney) J. Hendrickson–Arizona cliffrose, Burro Creek cliffrose   
Syn.: *Cowania subintegra* Kearney

SALICACEAE Willow Family

*Salix arizonica* Dorn–Arizona willow

SCROPHULARIACEAE Figwort Family

*Penstemon discolor* Keck–Variegated beardtongue

**B.** Salvage restricted native plants as prescribed in A.R.S. § 3-903(B)(2) that require a permit for removal. In addition to the plants listed under Agavaceae, Cactaceae, Liliaceae, and Orchidaceae, all other species in these families are salvage restricted protected native plants:

AGAVACEAE Agave Family

*Agave chrysantha* Peebles

*Agave deserti* Engelm. ssp. *simplex* Gentry–Desert agave

*Agave mckelveyana* Gentry

*Agave palmeri* Engelm.

*Agave parryi* Engelm. var. *couseii* (Engelm. ex Trel.) Kearney & Peebles

*Agave parryi* Engelm. var. *huachucensis* (Baker) Little ex L. Benson   
Syn.: *Agave huachucensis* Baker

*Agave parryi* Engelm. var. *parryi*

*Agave schottii* Engelm. var. *schottii* – Shindigger

*Agave toumeyana* Trel. ssp. *bella* (Breitung) Gentry

*Agave toumeyana* Trel. ssp. *toumeyana*

*Agave utahensis* Engelm. spp. *kaibabensis* (McKelvey) Gentry  
Syn.: *Agave kaibabensis* McKelvey

*Agave utahensis* Engelm. var. *utahensis*

*Yucca angustissima* Engelm. var. *angustissima*

*Yucca angustissima* Engelm. var. *kanabensis* (McKelvey) Reveal  
Syn.: *Yucca kanabensis* McKelvey

*Yucca arizonica* McKelvey

*Yucca baccata* Torr. var. *baccata–*Banana yucca

*Yucca baccata* Torr. var. *vespertina* McKelvey

*Yucca baileyi* Woot. & Standl. var. *intermedia* (McKelvey) Reveal   
Syn.: *Yucca navajoa* Webber

*Yucca brevifolia* Engelm. var. *brevifolia–*Joshua tree

*Yucca brevifolia* Engelm. var. *jaegeriana* McKelvey

*Yucca elata* Engelm. var. *elata–*Soaptree yucca, palmilla

*Yucca elata* Engelm var. *utahensis* (McKelvey) Reveal   
Syn.: *Yucca utahensis* McKelvey

*Yucca elata* Engelm. var. *verdiensis* (McKelvey) Reveal   
Syn.: *Yucca verdiensis* McKelvey

*Yucca harrimaniae* Trel.

*Yucca schidigera* Roezl.–Mohave yucca, Spanish dagger

*Yucca schottii* Engelm.–Hairy yucca

*Yucca thornberi* McKelvey

*Yucca whipplei* Torr. var. *whipplei–*Our Lord’s candle  
Syn.: *Yucca newberryi* McKelvey

AMARYLLIDACEAE Amaryllis Family

*Zephyranthes longifolia* Hemsl.–Plains Rain Lily

ANACARDIACEAE Sumac Family

*Rhus kearneyi* Barkley–Kearney Sumac

ARECACEAE Palm Family [=Palmae]

*Washingtonia filifera* (Linden ex Andre) H. Wendl–California fan palm

ASTERACEAE Sunflower Family [=Compositae]

*Cirsium parryi* (Gray) Petrak ssp. *mogollonicum* Schaak

*Cirsium virginensis* Welsh–Virgin thistle

*Erigeron kuschei* Eastw.–Chiricahua fleabane

*Erigeron piscaticus* Nesom–Fish Creek fleabane

*Flaveria macdougalii* Theroux, Pinkava & Keil

*Perityle ajoensis* Todson–Ajo rock daisy

*Perityle cochisensis* (Niles) Powell–Chiricahua rock daisy

*Senecio quaerens* Greene–Gila groundsel

BURSERACEAE Torch-Wood Family

*Bursera microphylla* Gray–Elephant tree, torote

CACTACEAE Cactus Family

*Carnegiea gigantea* (Engelm.) Britt. & Rose–Saguaro  
Syn.: *Cereus giganteus* Engelm.

*Coryphantha missouriensis* (Sweet) Britt. & Rose

*Coryphantha missouriensis* (Sweet) Britt. & Rose var. *marstonii* (Clover) L. Benson

*Coryphantha scheeri* (Kuntze) L. Benson var. *valida* (Engelm.) L. Benson

*Coryphantha strobiliformis* (Poselger) var. *orcuttii* (Rose) L. Benson

*Coryphantha strobiliformis* (Poselger) var. *strobiliformis*

*Coryphantha vivipara* (Nutt.) Britt. & Rose var. *alversonii* (Coult.) L. Benson

*Coryphantha vivipara* (Nutt.) Britt. & Rose var. *arizonica* (Engelm.) W. T. Marshall  
Syn.: *Mammillaria arizonica* Engelm.

*Coryphantha vivipara* (Nutt.) Britt. & Rose var. *bisbeeana* (Orcutt) L. Benson

*Coryphantha vivipara* (Nutt.) Britt. & Rose var. *deserti* (Engelm.) W. T. Marshall   
Syn.: *Mammillaria chlorantha* Engelm.

*Coryphantha vivipara* (Nutt.) Britt. & Rose var. *rosea* (Clokey) L. Benson

*Echinocactus polycephalus* Engelm. & Bigel. var. *polycephalus*

*Echinocactus polycephalus* Engelm. & Bigel. var. *xeranthemoides* Engelm. ex Coult.  
Syn.: *Echinocactus xeranthemoides* Engelm. ex Coult.

*Echinocereus engelmannii* (Parry ex Engelm.) Lemaire var. *acicularis* L. Benson

*Echinocereus engelmannii* (Parry ex Engelm.) Lemaire var. *armatus* L. Benson

*Echinocereus engelmannii* (Parry ex Engelm.) Lemaire var. *chrysocentrus* L. Benson

*Echinocereus engelmannii* (Parry ex. Engelm.) Lemaire var. *engelmannii*

*Echinocereus engelmannii* (Parry) Lemaire var. *variegatus* (Engelm.) Engelm. ex Rümpler

*Echinocereus fasciculatus* (Engelm. ex B. D. Jackson) L. Benson var. fasciculatus  
Syn.: *Echinocereus fendleri* (Engelm.) Rümpler var. *fasciculatus* (Engelm. ex B. D. Jackson) N. P. Taylor, *Echinocereus fendleri* (Engelm.) Rümpler var. *robusta* L. Benson; *Mammillaria fasciculata* Engelm.

*Echinocereus fasciculatus* (Engelm. ex B. D. Jackson) L. Benson var. *bonkerae* (Thornber & Bonker) L. Benson.  
Syn.: *Echinocereus boyce-thompsonii* Orcutt var. *bonkerae* Peebles; *Echinocereus fendleri* (Engelm.) Rümpler var. *bonkerae* (Thornber & Bonker) L. Benson

*Echinocereus fasciculatus* (Engelm. ex B. D. Jackson) L. Benson var. *boyce-thompsonii* (Orcutt) L. Benson   
Syn.: *Echinocereus boyce-thompsonii* Orcutt

*Echinocereus fendleri* (Engelm.) Rümpler var. *boyce-thompsonii* (Orcutt) L. Benson

*Echinocereus fendleri* (Engelm.) Rümpler var. *fendleri*

*Echinocereus fendleri* (Engelm.) Rümpler var. *rectispinus* (Peebles) L. Benson

*Echinocereus ledingii* Peebles

*Echinocereus nicholii* (L. Benson) Parfitt.  
Syn.: *Echinocereus engelmannii* (Parry ex Engelm.) Lemaire var. *nicholii* L. Benson

*Echinocereus pectinatus* (Scheidw.) Engelm. var. *dasyacanthus* (Engelm.) N. P. Taylor  
Syn.: *Echinocereus pectinatus* (Scheidw.) Engelm. var. *neomexicanus* (Coult.) L. Benson

*Echinocereus polyacanthus* Engelm. (1848) var. *polyacanthus*

*Echinocereus pseudopectinatus* (N. P. Taylor) N. P. Taylor   
Syn.: *Echinocereus bristolii* W. T. Marshall var. *pseudopectinatus* N. P. Taylor, *Echinocereus pectinatus* (Scheidw.) Engelm. var. *pectinatus sensu* Kearney and Peebles, Arizona Flora, and L. Benson, The Cacti of Arizona and The Cacti of the United States and Canada.

*Echinocereus rigidissimus* (Engelm.) Hort. F. A. Haage.  
Syn.: *Echinocereus pectinatus* (Scheidw.) Engelm. var. *rigidissimus* (Engelm.) Engelm. ex Rümpler–Rainbow cactus

*Echinocereus triglochidiatus* Engelm. var. *gonacanthus* (Engelm. & Bigel.) Boiss.

*Echinocereus triglochidiatus* Engelm. var. *melanacanthus* (Engelm.) L. Benson  
Syn.: *Mammillaria aggregata* Engelm.

*Echinocereus triglochidiatus* Engelm. var. *mojavensis* (Engelm.) L. Benson

*Echinocereus triglochidiatus* Engelm. var. *neomexicanus* (Standl.) Standl. ex W. T. Marshall.  
Syn.: *Echinocereus triglochidiatus* Engelm. var. *polyacanthus* (Engelm. 1859 non 1848) L. Benson

*Echinocereus triglochidiatus* Engelm. var. *triglochidiatus*

*Echinomastus erectocentrus* (Coult.) Britt. & Rose var. *erectocentrus*Syn.: *Neolloydia erectocentra* (Coult.) L. Benson var. *erectocentra*

*Echinomastus intertextus* (Engelm.) Britt. & Rose Syn.: *Neolloydia intertexta* (Engelg.) L. Benson

*Echinomastus johnsonii* (Parry) Baxter–Beehive cactus  
Syn.: *Neolloydia johnsonii* (Parry) L. Benson

*Epithelantha micromeris* (Engelm.) Weber ex Britt. & Rose

*Ferocactus cylindraceus* (Engelm.) Orcutt var. *cylindraceus–*Barrel cactus  
Syn.: *Ferocactus acanthodes* (Lemaire) Britt. & Rose var. *acanthodes*

*Ferocactus cylindraceus* (Engelm.) Orcutt var. *eastwoodiae* (Engelm.) N. P. Taylor  
Syn.: *Ferocactus acanthodes* (Lemaire) Britt. & Rose var. *eastwoodiae* L. Benson; Ferocactus eastwoodiae (L. Benson) L. Benson

*Ferocactus cylindraceus* (Engelm.) Orcutt. var. *lecontei* (Engelm.) H. Bravo   
Syn.: *Ferocactus acanthodes* (Lemaire) Britt. & Rose var. *leconti* (Engelm.) Lindsay; *Ferocactus lecontei* (Engelm.) Britt. & Rose

*Ferocactus emoryi* (Engelm.) Orcutt–Barrel cactus  
Syn.: *Ferocactus covillei* Britt. & Rose

*Ferocactus wislizenii* (Engelm.) Britt. & Rose–Barrel cactus

*Lophocereus schottii* (Engelm.) Britt. & Rose–Senita

*Mammillaria grahamii* Engelm. var. *grahamii*

*Mammillaria grahamii* Engelm. var. *oliviae* (Orcutt) L. Benson   
Syn.: *Mammillaria oliviae* Orcutt

*Mammillaria heyderi* Mühlenpf. var. *heyderi*Syn.: *Mammillaria gummifera* Engelm. var. *applanata* (Engelm.) L. Benson

*Mammillaria heyderi* Mühlenpf. var. *macdougalii* (Rose) L. Benson  
Syn.: *Mammillaria gummifera* Engelm. var. *macdougalii* (Rose) L. Benson; *Mammillaria macdougalii* Rose

*Mammillaria heyderi* Mühlenpf. var. *meiacantha* (Engelm.) L. Benson  
Syn.: *Mammillaria gummifera* Engelm. var. *meiacantha* (Engelm.) L. Benson

*Mammillaria lasiacantha* Engelm.

*Mammillaria mainiae* K. Brand.

*Mammillaria microcarpa* Engelm.

*Mammillaria tetrancistra* Engelm.

*Mammillaria thornberi* Orcutt

*Mammillaria viridiflora* (Britt. & Rose) Bödeker. Syn.: *Mammillaria orestra* L. Benson

*Mammillaria wrightii* Engelm. var. *wilcoxii* (Toumey ex K. Schumann) W. T. Marshall  
Syn.: *Mammillaria wilcoxii* Toumey

*Mammillaria wrightii* Engelm. var. *wrightii*

*Opuntia acanthocarpa* Engelm. & Bigel. var. *acanthocarpa–*Buckhorn cholla

*Opuntia acanthocarpa* Engelm. & Bigel. var. *coloradensis* L. Benson

*Opuntia acanthocarpa* Engelm. & Bigel. var. *major* L. Benson  
Syn.: *Opuntia acanthocarpa* Engelm. & Bigel var. *ramosa* Peebles

*Opuntia acanthocarpa* Engelm. & Bigel. var. *thornberi* (Thornber & Bonker) L. Benson   
Syn.: *Opuntia thornberi* Thornber & Bonker

*Opuntia arbuscula* Engelm.–Pencil cholla

*Opuntia basilaris* Engelm. & Bigel. var. *aurea* (Baxter) W. T. Marshall–Yellow beavertail  
Syn.: *Opuntia aurea* Baxter

*Opuntia basilaris* Engelm. & Bigel. var. *basilaris–*Beavertail cactus

*Opuntia basilaris* Engelm. & Bigel. var. *longiareolata* (Clover & Jotter) L. Benson

*Opuntia basilaris* Engelm. & Bigel. var. *treleasei* (Coult.) Toumey

*Opuntia bigelovii* Engelm.–Teddy-bear cholla

*Opuntia campii* ined.

*Opuntia canada* Griffiths (*O. phaeacantha* Engelm. var. *laevis X major* and *O. gilvescens* Griffiths).

*Opuntia chlorotica* Engelm. & Bigel.–Pancake prickly-pear

*Opuntia clavata* Engelm.–Club cholla

*Opuntia curvospina* Griffiths

*Opuntia echinocarpa* Engelm. & Bigel–Silver cholla

*Opuntia emoryi* Engelm.–Devil cholla   
Syn.: *Opuntia stanlyi* Engelm. ex B. D. Jackson var. *stanlyi*

*Opuntia engelmannii* Salm-Dyck ex Engelm. var. *engelmannii–*Engelmann’s prickly-pear  
Syn.: *Opuntia phaeacantha* Engelm. var. *discata* (Griffiths) Benson & Walkington

*Opuntia engelmannii* Salm-Dyck ex Engelm. var. *flavospina* (L.Benson) Parfitt & Pinkava  
Syn.: *Opuntia phaeacantha* Engelm. var. *flavispina* L. Benson

*Opuntia erinacea* Engelm. & Bigel. var. *erinacea–*Mohave prickly-pear

*Opuntia erinacea* Engelm. & Bigel. var. *hystricina* (Engelm. & Bigel.) L. Benson  
Syn.: *Opuntia hystricina* Engelm. & Bigel.

*Opuntia erinacea* Engelm. & Bigel. var. *ursina* (Weber) Parish–Grizzly bear prickly-pear  
Syn.: *Opuntia ursina* Weber

*Opuntia erinacea* Engelm. & Bigel. var. *utahensis* (Engelm.) L. Benson  
Syn.: *Opuntia rhodantha* Schum.

*Opuntia fragilis* Nutt. var. *brachyarthra* (Engelm. & Bigel.) Coult.

*Opuntia fragilis* Nutt. var. *fragilis–*Little prickly-pear

*Opuntia fulgida* Engelm. var. *fulgida–*Jumping chain-fruit cholla

*Opuntia fulgida* Engelm. var. *mammillata* (Schott) Coult.

*Opuntia imbricata* (Haw.) DC.–Tree cholla

*Opuntia X kelvinensis* V. & K. Grant pro sp.  
Syn.: *Opuntia kelvinensis* V. & K. Grant

*Opuntia kleiniae* DC. var. *tetracantha* (Toumey) W. T. Marshall  
Syn.: *Opuntia tetrancistra* Toumey

*Opuntia kunzei* Rose.   
Syn.: *Opuntia stanlyi* Engelm. ex B. D. Jackson var. *kunzei* (Rose) L. Benson; *Opuntia kunzei* Rose var. *wrightiana* (E. M. Baxter) Peebles; *Opuntia wrightiana* E. M. Baxter

*Opuntia leptocaulis* DC.–Desert Christmas cactus, Pencil cholla

*Opuntia littoralis* (Engelm.) Cockl. var. *vaseyi* (Coult.) Benson & Walkington

*Opuntia macrocentra* Engelm.–Purple prickly-pear   
Syn.: *Opuntia violacea* Engelm. ex B. D. Jackson var. *macrocentra* (Engelm.) L. Benson; *Opuntia violacea* Engelm. ex B. D. Jackson var. *violacea*

*Opuntia macrorhiza* Engelm. var. *macrorhiza–*Plains prickly-pear  
Syn.: *Opuntia plumbea* Rose

*Opuntia macrorhiza* Engelm. var. *pottsii* (Salm-Dyck) L. Benson

*Opuntia martiniana* (L. Benson) Parfitt  
Syn.: *Opuntia littoralis* (Engelm.) Cockerell var. *martiniana* (L. Benson) L. Benson; *Opuntia macrocentra* Engelm. var. *martiniana L. Benson*

*Opuntia nicholii* L. Benson–Navajo Bridge prickly-pear

*Opuntia parishii* Orcutt.  
Syn.: *Opuntia stanlyi* Engelm. ex B. D. Jackson var. *parishii* (Orcutt) L. Benson

*Opuntia phaeacantha* Engelm. var. *laevis* (Coult.) L. Benson  
Syn.: *Opuntia laevis* Coult.

*Opuntia phaeacantha* Engelm. var. *major* Engelm.

*Opuntia phaeacantha* Engelm. var. *phaeacantha*

*Opuntia phaeacantha* Engelm. var. *superbospina* (Griffiths) L. Benson

*Opuntia polyacantha* Haw. var. *juniperina* (Engelm.) L. Benson

*Opuntia polyacantha* Haw. var. *rufispina* (Engelm.) L. Benson

*Opuntia polyacantha* Haw. var. *trichophora* (Engelm. & Bigel.) L. Benson

*Opuntia pulchella* Engelm.–Sand cholla

*Opuntia ramosissima* Engelm.–Diamond cholla

*Opuntia santa-rita* (Griffiths & Hare) Rose–Santa Rita prickly-pear  
Syn.: *Opuntia violacea* Engelm. ex B. D. Jackson var. *santa-rita* (Griffiths & Hare) L. Benson

*Opuntia spinosior* (Engelm.) Toumey–Cane cholla

*Opuntia versicolor* Engelm.–Staghorn cholla

*Opuntia vivipara* Engelm

*Opuntia whipplei* Engelm. & Bigel. var. *multigeniculata* (Clokey) L. Benson

*Opuntia whipplei* Engelm. & Bigel. var. *whipplei–*Whipple cholla

*Opuntia wigginsii* L. Benson

*Pediocactus papyracanthus* (Engelm.) L. Benson Grama grass cactus  
Syn.: *Toumeya papyracanthus* (Engelm.) Britt. & Rose

*Pediocactus simpsonii* (Engelm.) Britt & Rose var. *simpsonii*

*Peniocereus greggii* (Engelm.) Britt. & Rose var. *greggii–*Night-blooming cereus  
Syn.: *Cereus greggii* Engelm.

*Peniocereus greggii* (Engelm.) Britt & Rose var. *transmontanus–*Queen-of-the-Night

*Peniocereus striatus* (Brandegee) Buxbaum.  
Syn.: *Neoevansia striata* (Brandegee) Sanchez-Mejorada; *Cereus striatus* Brandegee; *Wilcoxia diguetii* (Webber) Peebles

*Sclerocactus parviflorus* Clover & Jotter var. *intermedius* (Peebles) Woodruff & L. Benson  
Syn.: *Sclerocactus intermedius* Peebles

*Sclerocactus parviflorus* Clover & Jotter var. *parviflorus*Syn.: *Sclerocactus whipplei* (Engelm. & Bigel.) Britt. & Rose var. *roseus* (Clover) L. Benson

*Sclerocactus pubispinus* (Engelm.) L. Peebles

*Sclerocactus spinosior* (Engelm.) Woodruff & L. Benson  
Syn.: *Sclerocactus pubispinus* (Engelm.) L. Benson var. *sileri* L. Benson

*Sclerocactus whipplei* (Engelm. & Bigel.) Britt. & Rose

*Stenocereus thurberi* (Engelm.) F. Buxbaum–Organ pipe cactus  
Syn.: *Cereus thurberi* Engelm.; *Lemairocereus thurberi* (Engelm.) Britt. & Rose

CAMPANULACEAE Bellflower Family

*Lobelia cardinalis* L. ssp. *graminea* (Lam.) McVaugh–Cardinal flower

*Lobelia fenestralis* Cav.–Leafy lobelia

*Lobelia laxiflora* H. B. K. var. *angustifolia* A. DC.

CAPPARACEAE Cappar Family [=Capparidaceae]

*Cleome multicaulis* DC.–Playa spiderflower

CHENOPODIACEAE Goosefoot Family

*Atriplex hymenelytra* (Torr.) Wats.

CRASSULACEAE Stonecrop Family

*Dudleya arizonica* (Nutt.) Britt. & Rose  
Syn.: *Echeveria pulverulenta* Nutt. ssp. *arizonica* (Rose) Clokey

*Dudleya saxosa* (M.E. Jones) Britt. & Rose ssp. *collomiae* (Rose) Moran  
Syn.: *Echeveria collomiae* (Rose) Kearney & Peebles

*Graptopetalum bartramii* Rose  
Syn.: *Echevaria bartramii* (Rose) K. & P.

*Graptopetalum bartramii* Rose–Bartram’s stonecrop, Bartram’s live-forever  
Syn.: *Echeveria bartramii* (Rose) Kearney & Peebles

*Graptopetalum rusbyi* (Greene) Rose  
Syn.: *Echeveria rusbyi* (Greene) Nels. & Macbr.

*Sedum cockerellii* Britt.

*Sedum griffithsii* Rose

*Sedum lanceolatum* Torr.  
Syn.: *Sedum stenopetalum* Pursh

*Sedum rhodanthum* Gray

*Sedum stelliforme* Wats.

CROSSOSOMATACEAE Crossosoma Family

*Apacheria chiricahuensis* C. T. Mason–Chiricahua rock flower

CUCURBITACEAE Gourd Family

*Tumamoca macdougalii* Rose–Tumamoc globeberry

EUPHORBIACEAE Spurge Family

*Euphorbia plummerae* Wats.–Woodland spurge

*Sapium biloculare* (Wats.) Pax–Mexican jumping-bean

FABACEAE Pea Family [=Leguminosae]

*Astragalus corbrensis* Gray var. *maguirei* Kearney

*Astragalus cremnophylax* Barneby var. *myriorraphis* Barneby–Cliff milk-vetch

*Astragalus hypoxylus* Wats.–Huachuca milk-vetch

*Astragalus nutriosensis* Sanderson–Nutrioso milk-vetch

*Astragalus xiphoides* (Barneby) Barneby–Gladiator milk-vetch

*Cercis occidentalis* Torr.–California redbud

*Errazurizia rotundata* (Woot.) Barneby  
Syn.: *Parryella rotundata* Woot.

*Lysiloma microphylla* Benth. var. *thornberi* (Britt. & Rose) Isely–Feather bush  
Syn.: *Lysiloma thornberi* Britt. & Rose

*Phaseolus supinus* Wiggins & Rollins

FOUQUIERIACEAE Ocotillo Family

*Fouquieria splendens* Engelm.–Ocotillo, coach-whip, monkey-tail

GENTIANACEAE Gentian Family

*Gentianella wislizenii* (Engelm.) J. Gillett  
Syn.: *Gentiana wislizenii* Engelm.

LAMIACEAE Mint Family

*Hedeoma diffusum* Green–Flagstaff pennyroyal

*Salvia dorrii* ssp. *mearnsii*

*Trichostema micranthum* Gray

LILIACEAE Lily Family

*Allium acuminatum* Hook.

*Allium bigelovii* Wats.

*Allium biseptrum* Wats. var. *palmeri* (Wats.) Cronq.   
Syn.: *Allium palmeri* Wats.

*Allium cernuum* Roth. var. *neomexicanum* (Rydb.) Macbr.–Nodding onion

*Allium cernuum* Roth. var. *obtusum* Ckll.

*Allium geyeri* Wats. var. *geyeri*

*Allium geyeri* Wats. var. *tenerum* Jones

*Allium kunthii* Don

*Allium macropetalum* Rydb.

*Allium nevadense* Wats. var. *cristatum* (Wats.) Ownbey

*Allium nevadense* Wats. var. *nevadense*

*Allium parishii* Wats.

*Allium plummerae* Wats.

*Allium rhizomatum* Woot. & Standl. Incl.: *Allium glandulosum* Link & Otto *sensu* Kearney & Peebles

*Androstephium breviflorum* Wats.–Funnel-lily

*Calochortus ambiguus* (Jones) Ownbey

*Calochortus aureus* Wats.  
Syn.: *Calochortus nuttallii* Torr. & Gray var. *aureus* (Wats.) Ownbey

*Calochortus flexuosus* Wats.–Straggling mariposa

*Calochortus gunnisonii* Wats.

*Calochortus kennedyi* Porter var. *kennedyi–*Desert mariposa

*Calochortus kennedyi* Porter var. *munzii* Jeps.

*Dichelostemma pulchellum* (Salisbi) Heller var. *pauciflorum* (Torr.) Hoover

*Disporum trachycarpum* (Wats.) Benth. & Hook. var. *subglabrum* Kelso

*Disporum trachycarpum* (Wats.) Benth. & Hook. var. *trachycarpum*

*Echeandia flavescens* (Schultes & Schultes) Cruden   
Syn.: *Anthericum torreyi* Baker

*Eremocrinum albomarginatum* Jones

*Fritillaria atropurpurea* Nutt.

*Hesperocallis undulata* Gray–Ajo lily

*Lilium parryi* Wats.–Lemon lily

*Lilium umbellatum* Pursh

*Maianthemum racemosum* (L.) Link. ssp. *amplexicaule* (Nutt.) LaFrankie  
Syn.: *Smilacina racemosa* (L.) Desf. var. *amplexicaulis* (Nutt.) Wats.

*Maianthemum racemosum* (L.) Link ssp. *racemosum–*False Solomon’s seal  
Syn.: *Smilacina racemosa* (L.) Desf. var. *racemosa*; *Smilacina racemosa* (L.) Desf. var. *cylindrata* Fern.

*Maianthemum stellatum* (L.) Link  
Syn.: *Smilacina stellata* (L.) Desf.–Starflower

*Milla biflora* Cav.–Mexican star

*Nothoscordum texanum* Jones

*Polygonatum cobrense* (Woot. & Standl.) Gates

*Streptopus amplexifolius* (L.) DC.–Twisted stalk

*Triteleia lemmonae* (Wats.) Greene

*Triteleiopsis palmeri* (Wats.) Hoover

*Veratrum californicum* Durand.–False hellebore

*Zephyranthes longifolia* Hemsl.–Plains rain lily

*Zigadenus elegans* Pursh–White camas, alkali-grass

*Zigadenus paniculatus* (Nutt.) Wats.–Sand-corn

*Zigadenus virescens* (H. B. K.) Macbr.

MALVACEAE Mallow Family

*Abutilon parishii* Wats.–Tucson Indian mallow

*Abutilon thurberi* Gray–Baboquivari Indian mallow

NOLINACEAE Nolina

*Dasylirion wheeleri* Wats.–Sotol, desert spoon

*Nolina bigelovii* (Torr.)Wats.–Bigelow’s nolina

*Nolina microcarpa* Wats.–Beargrass, sacahuista

*Nolina parryi* Wats.–Parry’s nolina

*Nolina texana* Wats. var. *compacta* (Trel.) Johnst.– Bunchgrass

ONAGRACEAE Evening Primrose Family

*Camissonia exilis* (Raven) Raven

ORCHIDACEAE Orchid Family

*Calypso bulbosa* (L.) Oakes var. *americana* (R. Br.) Luer

*Coeloglossum viride* (L.) Hartmann var. *virescens* (Muhl.) Luer  
Syn.: *Habenaria viridis* (L.) R. Br. var. *bracteata* (Muhl.) Gray

*Corallorhiza maculata* Raf.–Spotted coral root

*Corallorhiza striata* Lindl.–Striped coral root

*Corallorhiza wisteriana* Conrad–Spring coral root

*Epipactis gigantea* Douglas ex Hook.–Giant helleborine

*Goodyera oblongifolia* Raf.

*Goodyera repens* (L.) R. Br.

*Hexalectris spicata* (Walt.) Barnhart–Crested coral root

*Listera convallarioides* (Swartz) Nutt.–Broad-leaved twayblade

*Malaxis corymbosa* (S. Wats.) Kuntze

*Malaxis ehrenbergii* (Reichb. f.) Kuntze

*Malaxis macrostachya* (Lexarza) Kuntze–Mountain malaxia  
Syn.: *Malaxis soulei* L. O. Williams

*Malaxis tenuis* (S. Wats.) Ames

*Platanthera hyperborea* (L.) Lindley var. *gracilis* (Lindley) Luer  
 Syn.: *Habenaria sparsiflora* Wats. var. *laxiflora* (Rydb.) Correll

*Platanthera hyperborea* (L.) Lindley var. *hyperborea–*Northern green orchid  
Syn.: *Habenaria hyperborea* (L.) R. Br.

*Platanthera limosa* Lindl.–Thurber’s bog orchid   
Syn.: *Habenaria limosa* (Lindley) Hemsley

*Platanthera sparsiflora* (Wats.) Schlechter var. *ensifolia* (Rydb.) Luer

*Platanthera sparsiflora* (Wats.) var. *laxiflora* (Rydb.) Correll

*Platanthera sparsiflora* (Wats.) Schlechter var. *sparsiflora–*Sparsely-flowered bog orchid  
Syn.: *Habenaria sparsiflora* Wats.

*Platanthera stricta* Lindl.–Slender bog orchid   
Syn.: *Habenaria saccata* Greene; *Platanthera saccata* (Greene) Hulten

*Platanthera viridis* (L.) R. Br. var. *bracteata* (Muhl.) Gray–Long-bracted habenaria

*Spiranthes michaucana* (La Llave & Lex.) Hemsl.

*Spiranthes parasitica* A. Rich. & Gal.

*Spiranthes romanzoffiana* Cham.–Hooded ladies tresses

PAPAVERACEAE Poppy Family

*Arctomecon californica* Torr. & Frém.–Golden-bear poppy, Yellow-flowered desert poppy

PINACEAE Pine Family

*Pinus aristata* Engelm.–Bristlecone pine

POLYGONACEAE Buckwheat Family

*Eriogonum apachense* Reveal

*Eriogonum capillare* Small

*Eriogonum mortonianum* Reveal–Morton’s buckwheat

*Eriogonum ripleyi* J. T. Howell–Ripley’s wild buckwheat, Frazier’s Well buckwheat

*Eriogonum thompsonae* Wats. var. *atwoodii* Reveal–Atwood’s buckwheat

PORTULACEAE Purslane Family

*Talinum humile* Greene–Pinos Altos flame flower

*Talinum marginatum* Greene

*Talinum validulum* Greene–Tusayan flame flower

PRIMULACEAE Primrose Family

*Dodecatheon alpinum* (Gray) Greene ssp. *majus* H. J. Thompson

*Dodecatheon dentatum* Hook. ssp. *ellisiae* (Standl.) H. J. Thompson

*Dodecatheon pulchellum* (Raf.) Merrill

*Primula hunnewellii* Fern.

*Primula rusbyi* Greene

*Primula specuicola* Rydb.

RANUNCULACEAE Buttercup Family

*Aquilegia caerulea* James ssp. *pinetorum* (Tidest.) Payson–Rocky Mountain Columbine

*Aquilegia chrysantha* Gray

*Aquilegia desertorum* (Jones) Ckll.–Desert columbine, Mogollon columbine

*Aquilegia elegantula* Greene

*Aquilegia longissima* Gray–Long Spur Columbine

*Aquilegia micrantha* Eastw.

*Aquilegia triternata* Payson

ROSACEAE Rose Family

*Rosa stellata* Woot.–ssp. *abyssa* A. Phillips Grand Canyon rose

*Vauquelinia californica* (Torr.) Sarg. ssp. *pauciflora* (Standl.) Hess & Henrickson–Few-flowered Arizona rosewood

SCROPHULARIACEAE Figwort Family

*Castilleja mogollonica* Pennell

*Penstemon albomarginatus* Jones

*Penstemon bicolor* (Brandeg.) Clokey & Keck ssp. *roseus* Clokey & Keck

*Penstemon clutei* A. Nels.

*Penstemon distans* N. Holmgren–Mt. Trumbull beardtongue

*Penstemon linarioides* spp. maguirei

SIMAROUBACEAE Simarouba Family

*Castela emoryi* (Gray) Moran & Felger–Crucifixion thorn

Syn.: *Holacantha emoryi* Gray

STERCULIACEAE Cacao Family

*Fremontodendron californicum* (Torr.) Coville–Flannel bush

**C.** Salvage assessed native plants as prescribed in A.R.S. § 3-903(B)(3) that require a permit for removal:

BIGNONIACEAE Bignonia Family

*Chilopsis linearis* (Cav.) Sweet var. *arcuata* Fosberg–Desert-willow

*Chilopsis linearis* (Cav.) Sweet var. *glutinosa* (Engelm.) Fosberg

FABACEAE Pea Family [=Leguminosae]

*Cercidium floridum* Benth.–Blue palo verde

*Cercidium microphyllum* (Torr.) Rose & Johnst.–Foothill palo verde

*Olneya tesota* Gray–Desert ironwood

*Prosopis glandulosa* Torr. var. *glandulosa–*Honey mesquite   
Syn.: *Prosopis juliflora* (Swartz) DC. var. *glandulosa* (Torr.) Ckll.

*Prosopis glandulosa* Torr. var. *torreyana* (Benson) M. C. Johnst.–Western honey mesquite  
Syn.: *Prosopis juliflora* (Swartz) DC. var. *torreyana* Benson

*Prosopis pubescens* Benth.–Screwbean mesquite

*Prosopis velutina* Woot.–Velvet mesquite   
Syn.: *Prosopis juliflora* (Swartz) DC. var. *velutina* (Woot.) Sarg.

*Psorothamnus spinosus* (Gray) Barneby–Smoke tree.  
Syn.: *Dalea spinosa* Gray

**D.** Harvest restricted native plants as prescribed at A.R.S. § 3-903(B)(4) that require a permit to cut or remove the plants for their by-products, fibers, or wood:

AGAVACEAE Agave Family (including Nolinaceae)

*Nolina bigelovii* (Torr.) Wats.–Bigelow’s nolina

*Nolina microcarpa* Wats.–Beargrass, sacahuista

*Nolina parryi* Wats.–Parry’s nolina

*Nolina texana* Wats. var. *compacta* (Trel.) Johnst.–  
 Bunchgrass

*Yucca baccata* Torr. var. *baccata–*Banana yucca

*Yucca schidigera* Roezl.–Mohave yucca, Spanish dagger

FABACEAE Pea Family [=Leguminosae]

*Olneya tesota* Gray–Desert ironwood

*Prosopis glandulosa* Torr. var. *glandulosa–*Honey mesquite   
Syn.: *Prosopis juliflora* (Swartz) DC. var. *glandulosa* (Torr.) Ckll.

*Prosopis glandulosa* Torr. var. *torreyana* (Benson) M. C. Johnst.–Western honey mesquite   
Syn.: *Prosopis juliflora* (Swartz) DC. var. *torreyana* Benson

*Prosopis pubescens* Benth.–Screwbean mesquite

*Prosopis velutina* Woot.–Velvet mesquite   
Syn.: *Prosopis juliflora* (Swartz) DC. var. *velutina* (Woot.) Sarg.

Historical Note

New Section recodified from 3 A.A.C. 4, Article 6 at 10 A.A.R. 726, effective February 6, 2004 (Supp. 04-1). Amended by final rulemaking at 14 A.A.R. 811, effective May 3, 2008 (Supp. 08-1).