

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.~~

“Authorized representative” means a project manager, project engineer, sub-contractor, or similar that is identified by the landowner on a Notice of Intent to Clear form, or amended form, as a person that has authorization from the landowner to salvage protected native plants on property owned or managed by the landowner.

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

“Collection” means a collection of one or more highly safeguarded native plants that are preserved, catalogued, and managed for the purpose of preserving that species of an Arizona native plant.

“Conservation” means prevention of exploitation, damage, 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 or irreparable damage 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).

~~“Highly safeguarded native plant” (A.R.S. § 3-903(B)(1)) means a group of plants that are threatened for survival or are in danger of extinction. Including the native plants listed in Appendix A, subsection (A) and those listed in the Endangered Species Act. The plants in this category may only be salvaged with the use of scientific or non-commercial salvage permits, tags and seals.~~

~~“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.~~

~~“Jurisdiction” means the applicability of the Arizona native plant laws of A.R.S. §§ 3-901 through 3-934 that apply within the boundaries of the state, except on designated Indian lands and federal lands. Federal land managers are to be cognizant of E.O. 13132 (64 FR 43255, August 10, 1999) when considering native plants on federal land. State law governs in areas within local political subdivision boundaries but does not prohibit more stringent native plant regulations or ordinances adopted the political subdivision. Where the two are in conflict, state laws and rules supersede, or if complimentary, the most stringent of the two laws and rules shall apply.~~

“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” means to remove a protected native plant that would otherwise be destroyed in the land development process or other actions that would threaten the survival of the species of plant.~~

~~“Salvage assessed native plant” means plants categorized in Appendix A, subsection (C) of this Article, as described by A.R.S. § 3-903(B)(3), that are to be afforded the exclusive protections, involving the use of salvage tags and annual salvage permits, provided in this Article. The category contains native plants that are not subject to theft or vandalism, but nevertheless have salvage value.~~

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

~~“Salvage restricted native plant” means plants categorized in Appendix A, subsection (B) of this Article, as described by A.R.S. § 3-903(B)(2), that are to be afforded the exclusive protections involving the use of salvage permits, tags, and seals provided in this Article. This category includes native plants that may be salvaged and transplanted but are nevertheless subject to high potential for damage by theft or vandalism.~~

“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 or seedling of a protected plant that is demonstrably no more than 12 months old.

~~“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.~~

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 notification of intended destruction, which shall include the following information to the Department on a form obtained from the Department:
 - a. Name, address, email address, and telephone number of the landowner;
 - b. Name, address, email 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 that the notice has been received, and
2. Notice is given to the Department within the following minimum time periods, starting from the time the notice was given or from when confirmation is received from the Department:
 - 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~~ compile a list of names and contact information of salvagers or persons interested in native plant salvage. The persons on the list shall receive notifications of potential salvage opportunities. To be placed on the list, the salvager or other interested person shall submit to the Department's

licensing section the salvager or interested person's name, email address, mailing address, telephone number, and payment of an annual \$50 nonrefundable fee. The Department shall send to all listed salvagers and interested persons an electronic copy of notices of intent ("NOI"), including those that indicate they are not allowing salvage. The electronic copy of the NOIs shall be sent out daily the next business day after the NOIs are received. If not received on a business day the NOI will be sent out the next business day.

D. A notice of intent is not required for the destruction of native plants on individually owned residential property of ten acres or less where initial building construction has already occurred.

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.~~

A. A state agency intending to remove or destroy protected native plants, over an area of state land exceeding one-quarter acre, the state agency shall notify the Department in writing at least sixty days before the plants are removed or destroyed with the following information on a form obtained from the Department:

1. 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;
2. A description of the number and type of plants to be removed or destroyed;
2. Earliest date of plant destruction; and
3. The state agency's intent for the disposal or salvage of protected native plants on the land.

B. A state agency intending to remove or destroy protected native plants shall propose a method of disposal or transfer from the following list:

1. Sold at a public auction;

2. Relocated or transported to a different location on the same property or to another property owned by the state, without obtaining a permit;
3. Donated to nonprofit organizations as provided in A.R.S. § 3-916;
4. Donated to another state agency or political subdivision, by obtaining a non-commercial salvage permit; or
5. Salvaged or harvested by a member of the general public or a commercial dealer, if the person holds a salvage permit issued pursuant to R3-3-1104.
6. In situations where 1 through 5 above are not possible, the destruction or clearing of the land may begin 60 days after the notice, as prescribed in subsection (A), has been acknowledged by the Department.

C. Any action by a state agency must occur within one year of the date disclosed in the notice.

D. A state agency filing a notice, as prescribed in subsection (A), to remove protected native plants are exempt from fees established for salvaged plants.

B.E. 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, and meet the requirements of R3-3-1105(A)(3) or (B)(3), by obtaining a current list of scientific permit and noncommercial salvage permit holders from the Department.

F. Pre-notification of intent shall not be required in an emergency, where imminent threat to the safety of a person or animal, or damage to personal property exists if protected native plants are not removed or destroyed by the state agency, provided the notice of intent is filed after the removal or destruction of the native plant.

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

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. ~~Salvage restricted native plant permits. An applicant shall submit the following information to the Department on a form obtained from the Department, as applicable.~~

1. An applicant for a salvage restricted native plant permit shall submit the following information to the Department on a form obtained from the Department, as applicable, along with any applicable fees outlined in R3-3-1106:

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

~~2-b.~~ Name and number of plants to be removed;

- ~~3.c.~~ Purpose of the plant removal;
- ~~4.d.~~ 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.e.~~ Name, address, email address, telephone number, and signature of the landowner where the plants will be removed;
 - ~~b.f.~~ Location of the permitted site and size of acreage;
 - ~~e.g.~~ Destination address where the plants will be transplanted or temporarily held before being sold, gifted, or otherwise distributed to a permanent location;
 - ~~d.h.~~ Legal and physical description of the location of the original growing site; and
 - ~~e.i.~~ Parcel identification number for the permitted site or other documents proving land ownership.
- 2. Salvage restricted 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.
- 3. Exemptions. The following are exemptions for the requirements of this subsection.
 - a. Plants propagated or cultivated by human beings; or
 - b. Native plants collected or salvaged by a homeowners' association or any other community based organization if the plants are relocated in the community.
- ~~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;~~
 - ~~e.~~ ~~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~~
- e. ~~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;~~
 - e. ~~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.~~

C. Salvage assessed native plant permits

1. An applicant for a salvage assessed native plant permit shall submit the following information to the Department on a form obtained from the Department, as applicable, along with any applicable fees outlined in R3-3-1106:
 - a. Name, business name, address, email address, telephone number, and signature of the applicant;
 - b. Names of the salvage assessed plants to be collected.
2. 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.
3. Exemptions. The following are exemptions for the requirements of this subsection.

- a. Plants propagated or cultivated by human beings; or
- b. Native plants collected or salvaged by a homeowners' association or any other community based organization if the plants are relocated in the community.

D. Harvest restricted native plant permit and receipts.

- 1. Any person harvesting the wood, fiber, or by-product of a plant listed in subsection (D) of Appendix A of more than one-hundred pounds, or more than two cords of wood, shall apply for a harvest restricted permit and receipts by submitting the following information to the Department, on a form obtained from the Department, along with any applicable fees outlined in R3-3-1106(C)(2):
 - a. Name, address, email address and telephone number of the applicant applying for the permit;
 - b. The legal land description where the harvesting will take place;
 - c. For wood products, the number of cords to be collected;
 - d. For Nolina or Yucca fiber, the numbers of pounds to be collected;
 - e. Name, address, email address, telephone number, and signature of land owner(s)
- 2. Permits and unused receipts issued under this subsection are non-transferable and must be in the possession of the permit holder during harvesting and transport.
- 3. Receipts for harvest restricted materials that are sold must be transferred to a purchaser as proof of ownership.
- 4. Exemptions. The following are exemptions for the requirements of this subsection.
 - a. Material harvested from lands managed by the federal government provided a person is in possession of a valid permit issued by the federal land management agency.
 - b. Material harvested with written permission from a private land owner or tenant, from other than state-owned land or other public land, and:
 - i. Is one-hundred pounds or less for Yucca or Nolina fiber; or
 - ii. Is two cords or less of wood.
 - c. The use of dead wood for campfires or cooking.
 - d. Dead harvest restricted plants, collected by a land owner or tenant.

E. Scientific Permit. In addition to the requirements of A.A.C. R3-3-1105(A), the following application requirements apply:

1. An applicant shall submit the following information to the Department on a form obtained from the Department, along with any applicable fees outlined in R3-3-1106:
 - a. Name, address, email 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; and
 - m. Signed affirmation by the applicant that the plants collected will not be sold or used for personal interests.
2. A scientific permit is valid for the calendar year in which it is issued.
3. A scientific permit holder may amend their permit anytime by submitting the updated information to the Department.
4. An applicant may also submit proof of a current scientific permit issued by a federal agency or state political subdivision and any additional information to the requirements of R3-3-1104(E)(1) not provided in the existing scientific permit.

F. Non-commercial Salvage Permit. In addition to the requirements of A.A.C. R3-3-1105(B), the following application requirements apply:

1. An applicant shall submit the following information to the Department, on a form obtained from the Department, along with any applicable fees outlined in R3-3-1106:
 - a. Name, address, email 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. The number, species, and description of the plants being salvaged;

e. Date of the application; and

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

2. A non-commercial salvage permit is valid only for the transportation and the transplantation of the identified native plants indicated on the permit application. A non-commercial salvage permit holder may amend their permit anytime by submitting the updated information to the Department with written authorization from the landowner.

3. A non-commercial salvage permit is 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.

4. Plants propagated or cultivated by human beings are exempt from these requirements.

G. Movement Permit. In addition to the saguaro tag obtained pursuant to R3-3-1106(C)(1)(a), any person moving or salvaging a saguaro cactus over four feet tall from a location other than its original growing location 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. Saguaro cactus that are propagated are exempt from this requirement.

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

2. The address or parcel identification number where the saguaro cactus is located;

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

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

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

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

7. The date of the application.

H. 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 nearest Department office location during normal business hours, office locations can be found by calling 602-542-3578 or by visiting the Department's website at <https://agriculture.az.gov/plantsproduce/native-plants>.
2. To ensure compliance with A.A.C. R3-4-239, shipments originating from an area under quarantine for imported fire ants, the Department shall place the protected native plant under quarantine and direct the shipment to a certified quarantine holding area for inspection.
3. After the plants have been declared, the permitting office shall issue an Import Movement Permit and seal.

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

A. Scientific Permit

1. A person shall not collect, destroy, harm, or remove any highly safeguarded or other protected native plants for a research project unless that person holds a scientific permit issued pursuant to R3-3-1104(E).
 - a. The removal and movement of the native plants shall be accomplished by a person experienced in native plant removal and transplantation
 - i. Whenever possible, the permittee shall take specimens in such a way as to not reduce the population by retrieving minimal tissue, leaving the roots intact for perennial plants or utilizing other scientifically acceptable methods for the protection of the environment and remaining native plants.
 - ii. If not already required by another agency or institution, and whenever possible, if the permittee takes multiple specimens, the permittee shall deposit at least one specimen at an Arizona university plant conservatory. If it is not possible to deposit a specimen at an Arizona university plant conservatory, the permittee shall provide the justification to the Department for noncompliance with this provision.
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.~~

~~3.2.~~ 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.~~

3. In addition to the requirements listed in subsection (A)(2), the following requirements apply to highly safeguarded native plants:

- a. Permits may be issued only for collection for scientific purposes of highly safeguarded native plants whose existence or location is threatened by intended destruction or a change in land usage, and
- b. If the permit may enhance the survival of the affected species.

B. Noncommercial salvage permit:

1. Highly safeguarded native plants may only be collected for conservation by a person holding a noncommercial salvage permit issued pursuant to R3-3-1104(F).
- ~~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.~~
- ~~3.2. 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.~~
3. In addition to the requirements listed in subsection (B)(2), the following requirements apply to highly safeguarded native plants:
 - a. Permits may be issued only for collection for noncommercial salvage purposes of highly safeguarded native plants whose existence or location is threatened by intended destruction or a change in land usage, and
 - b. If the permit may enhance the survival of the affected species.

R3-3-1106. ~~Protected Native Plant Survey; Fee~~ Protected Native Plant Program Fees

- ~~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.~~

A. Permit fees.

1. In addition to any applicable fees for interstate shipment requiring a single shipment nursery stock inspection certification issued pursuant to R3-4-301(D), 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;

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;

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

d. Exempted pursuant to A.R.S. § 3-915;

e. Donated to a home-owners association or nonprofit organizations as provided in A.R.S. § 3-916; or

f. Donated to another state agency or political subdivision, under a non-commercial salvage permit.

B. 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 wood 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.
- C. Seal fees. A person obtaining a seal shall submit a \$.15 per plant fee to the Department at the time a seal is obtained.
- D. Arizona native plant law Education. 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 \$50 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 \$65 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.

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.A.** Any Except as otherwise exempted pursuant to A.R.S. § 3-915, 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.B.** 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.~~
- ~~5.3.~~ The imported seal shall be attached directly to the plant.
- ~~6.4.~~ Upon loading the plant, every effort shall be made to allow visibility of the tag during transport.

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~~ assessed protected native plants were removed, the location where the plants were taken from, the location where the plants were replanted, and the permit and tag numbers.
- ~~2.~~ A permittee shall maintain a record of written permission granted by a landowner for the collection of salvage assessed native plants.
- ~~2.3.~~ 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.

R3-3-1109. ~~Arizona Native Plant Law Education Repealed~~

- ~~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.~~

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.~~

- ~~A. A person that is found in violation of A.R.S. § 3-908 or the rules of this Article shall be denied a permit, tag, or seal applied for or issued, pursuant to this Article.~~
- ~~B. 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.~~

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 sonora* (Torr. ex Gray) Yatskievych Sandfood, sandroot
- Syn.: *Ammobroma sonora* Torr. ex Gray

LILIACEAE Lily Family

- *Allium goodingii* Ownbey Goodding's onion

ORCHIDACEAE Orchid Family

- *Cypripedium calceolus* L. var. *pubescens* (Willd.) Correll Yellow lady's slipper
- *Hexaletris 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 Fern

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

Amaryllidaceae Allium gooddingii - Goodding's onion

Apiaceae Eryngium sparganophyllum - Arizona cryngo

Apiaceae Lilaeopsis schaffneriana ssp. *recurva* - Cienega false rush, Huachuca water umbel

Apocynaceae Amsonia grandiflora - Arizona bluestar

Apocynaceae Amsonia kearneyana - Kearney's bluestar

Apocynaceae Asclepias welshii - Welsh's milkweed

Apocynaceae Cycladenia humilis var. *jonesii* - Jones' waxy dogbane

Apocynaceae Matelea tristiflora - Talayote

Asparagaceae Agave x arizonica - Arizona agave

Asparagaceae Agave delamateri - Tonto Basin agave

Asparagaceae Agave murpheyi - Hohokam agave

Asparagaceae Agave parviflora - Santa Cruz striped agave

Asparagaceae Agave phillipsiana Grand Canyon agave

Asparagaceae Agave sanpedroensis - San Pedro agave

Asparagaceae Agave schottii var. *treleasei* - Trellease agave

Asparagaceae Agave verdensis - Sacred Mountain agave

Asparagaceae Agave yavapaiensis - Page Springs agave

Asparagaceae Yucca kenabensis - Kanab yucca

Asteraceae Ericameria arizonica - Arizona heath-goldenrod

Asteraceae Erigeron lemmonii - Lemmon fleabane

Asteraceae Erigeron rhizomatus - Zuni fleabane

Asteraceae Packera franciscana - San Francisco Peaks groundsel

Asteraceae Pectis imberbis - Beardless chinchweed

Asteraceae *Perityle* spp. (except *P. emoryi*) - Rockdaisy

Asteraceae *Senecio multidentatus* var. *huachucanus* - Huachuca groundsel

Boraginaceae *Oreocarya semiglabra* - Smooth cryptantha

Boraginaceae *Phacelia cronquistiana* - Cronquist's phacelia

Cactaceae *Carnegiea gigantea*, crested form - Saguaro, "crested" or "fan-top"

Cactaceae *Coryphantha recurvata* - Golden-chested beehive cactus

Cactaceae *Coryphantha robustispina* ssp. *robustispina* - Scheer's strong-spined cory cactus

Cactaceae *Coryphantha robustispina* ssp. *uncinata*

Cactaceae *Cylindropuntia abyssi* - Peach Springs cholla

Cactaceae *Cylindropuntia x campii* - Camp's cholla

Cactaceae *Echinocactus horizontalonius* ssp. *nicholii* - Nichol's Turk's head cactus

Cactaceae *Echinocereus arizonicus* ssp. *arizonicus* - Arizona hedgehog cactus

Cactaceae *Echinomastus erectocentrus* ssp. *acunensis* - Acuna cactus

Cactaceae *Escobaria robbinsorum* - Cochise pincushion cactus

Cactaceae *Pediocactus bradyi* - Brady's pincushion cactus

Cactaceae *Pediocactus paradinei* - Paradine plains cactus

Cactaceae *Pediocactus peeblesianus* - Peebles' Navajo cactus, Navajo plains cactus

Cactaceae *Pediocactus sileri* - Siler pincushion cactus

Cactaceae *Sclerocactus sileri* - House Rock Fish-Hook Cactus

Caryophyllaceae *Silene rectiramea* - Grand Canyon champion

Cyperaceae *Carex specuicola* - Navajo sedge

Fabaceae *Astragalus cremnophylax* var. *cremnophylax* - Sentry milkvetch

Fabaceae *Astragalus endopterus* - Sandbar milkvetch

Fabaceae *Astragalus holmgreniorum* - Holmgren milkvetch

Fabaceae *Dalea tentaculoides* - Gentry indigo bush

Fabaceae *Acmispon mearnsii* var. *equisolenus*

Lamiaceae *Trichostema micranthum* - Small flower bluecurls

Lennoaceae *Pholisma arenarium* - Scaly-stemmed sand plant

Lennoaceae *Pholisma sonora* - Sandfood, sandroot

Malvaceae *Sphaeralcea gierischii* - Gierisch's globemallow

Orchidaceae *Cypripedium calceolus* var. *pubescens* - Yellow lady's slipper

Orchidaceae *Hexalectris parviflora*

Orchidaceae *Hexalectris warnockii* - Texas purple spike

Orchidaceae *Spiranthes delitescens* - Canelo Hills ladies'-tresses

Orobanchaceae *Castilleja mogollonica* - Mogollon Indian-paintbrush

Papaveraceae *Arctomecon californica* - Las Vegas bearclaw-poppy

Plantaginaceae *Penstemon discolor* - Variegated beardtongue

Poaceae *Puccinellia parishii* - Parish alkali grass

Polemoniaceae *Loeseliastrum franciscanum* - Wupatki calico

Polygonaceae *Eriogonum mortonianum* - Fredonia buckwheat

Polygonaceae *Rumex orthoneurus* - Chiricahua Mountain wild dock

Psilotaceae *Psilotum nudum* - Bush Moss, Whisk Fern

Ranunculaceae *Cimicifuga arizonica* - Arizona bugbane

Ranunculaceae *Clematis hirsutissima* var. *arizonica* - Arizona leatherflower

Rosaceae *Potentilla arizonica* - Garland Prairie Cinquefoil

Rosaceae *Purshia* x *subintegra* - Arizona cliffrose, Burro Creek cliffrose

Rosaceae *Purshia pinkavae* - Pinkava cliffrose

Salicaceae *Salix arizonica* - Arizona willow

Scrophulariaceae *Buddleja sessiliflora* - Rio Grande butterfly bush

- B. Salvage restricted native plants as prescribed in A.R.S. § 3-903(B)(2) that require a permit issued pursuant to this Article, 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. *huachuensis* (Baker) Little ex L. Benson~~
Syn.: ~~*Agave huachuensis* 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* Roez. 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 coehisensis* (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. *orecuttii* (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* (Engelm.) L. Benson~~
- ~~*Echinomastus johnsonii* (Parry) Baxter Beehive cactus
Syn.: *Neolloydia johnsonii* (Parry) L. Benson~~
- ~~*Epithelantha micromeris* (Engelm.) Weber ex Britt. & Rose~~
- ~~*Feroactus cylindraceus* (Engelm.) Oreutt var. *cylindraceus* Barrel cactus
Syn.: *Feroactus acanthodes* (Lemaire) Britt. & Rose var. *acanthodes*~~
- ~~*Feroactus cylindraceus* (Engelm.) Oreutt var. *eastwoodiae* (Engelm.) N. P. Taylor
Syn.: *Feroactus acanthodes* (Lemaire) Britt. & Rose var. *eastwoodiae* L. Benson; *Feroactus eastwoodiae* (L. Benson) L. Benson~~
- ~~*Feroactus cylindraceus* (Engelm.) Oreutt var. *lecontei* (Engelm.) H. Bravo
Syn.: *Feroactus acanthodes* (Lemaire) Britt. & Rose var. *lecontei* (Engelm.) Lindsay; *Feroactus lecontei* (Engelm.) Britt. & Rose~~

- ~~*Ferocactus emoryi* (Engelm.) Oreutt~~ 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* (Oreutt) L. Benson~~
Syn.: ~~*Mammillaria oliviae* Oreutt~~
- ~~*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* Oreutt~~
- ~~*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. *flavispinga* 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.: ~~*Toumeyia 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* (Brandege) Buxbaum.

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

— *Scleroactis parviflorus* Clover & Jotter var. *intermedius* (Peebles) Woodruff & L. Benson

Syn.: *Scleroactis intermedius* Peebles

— *Scleroactis parviflorus* Clover & Jotter var. *parviflorus*

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

— *Scleroactis pubispinus* (Engelm.) L. Peebles

— *Scleroactis spinosior* (Engelm.) Woodruff & L. Benson

Syn.: *Scleroactis pubispinus* (Engelm.) L. Benson var. *sileri* L. Benson

— *Scleroactis 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.) MeVaugh 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.: *Echeveria 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 macdougallii* 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 eremnophylax* Barneby var. *myriorrhaphis* 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 biseptum* 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 geayeri* Wats. var. *geayeri*
- *Allium geayeri* 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~~
- ~~*Triteleopsis 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~~

- ~~—*Dasyilirion 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 chrenbergii* (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 michauxiana* (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~~

PORTULACACEAE 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 & Henriekson Few flowered
Arizona rosewood~~

SCROPHULARIACEAE Figwort Family

— *Castilleja mogollonica* Pennell

— *Penstemon albomarginatus* Jones

— *Penstemon bicolor* (Brandeg.) Clokey & Keek ssp. *roseus* Clokey & Keek

— *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

Amaranthaceae Atriplex hymenelytra - Desert-holly

Amaryllidaceae Allium spp. that are not listed in Appendix A.(A) - Wild onion

Amaryllidaceae Habranthus longifolius - Plains Rain Lily

Amaryllidaceae Nothoscordum bivalve - Crowpoison

Anacardiaceae Rhus kearneyi ssp. *kearneyi* - Kearney Sumac

Apocynaceae Amsonia peeblesii - Peeble's Bluestar

Arecaceae Washingtonia filifera - California fan palm

Asparagaceae Agave spp. that are not listed in Appendix A.(A) - Agave, century plant

Asparagaceae Androstephium breviflorum - Funnel-lily

Asparagaceae Dasylirion wheeleri - Sotol, desert spoon

Asparagaceae Echeandia flavescens - Amberlily

Asparagaceae Eremocrinum albomarginatum - Lonely-lily

Asparagaceae Hesperocallis undulata - Ajo-lily

Asparagaceae Hesperoyucca newberryi - Newberry's-yucca

Asparagaceae *Milla biflora* - Mexican star

Asparagaceae *Nolina* spp. - Beargrass

Asparagaceae *Polygonatum cobrense*

Asparagaceae *Triteleia lemmoniae* - Oak Creek Triplet-lily

Asparagaceae *Triteleopsis palmeri* - Palmer's Blue sand lily

Asparagaceae *Yucca* spp. that are not listed in Appendix A.(A) - Narrow-leaf yucca

Asteraceae *Cirsium virginensis* - Virgin thistle

Asteraceae *Erigeron anchana* - Sierra Ancha fleabane

Asteraceae *Erigeron heliographis* - Heliograph Peak fleabane

Asteraceae *Erigeron hodgsoniae* - Hodgson's fleabane

Asteraceae *Erigeron piscaticus* - Fish Creek fleabane

Asteraceae *Erigeron pringlei* - Pringle's fleabane

Asteraceae *Hymenoxys ambigens* - Pinaleno Mountain Rubberweed

Asteraceae *Perityle* spp. except *emoryi* - Ajo rock daisy

Asteraceae *Senecio quaerens* - Gila groundsel

Asteraceae *Tetranuris verdiensis* - Verde Valley four-nerved daisy

Boraginaceae *Mertansia macdougalii* - Macdougal's bluebells

Boraginaceae *Phacelia sonoitensis* - Sonoita Creek scorpionweed

Brassicaceae *Draba asprella* - Rough Whitlow-grass

Burseraceae *Bursera microphylla* - Elephant tree, torote

Cactaceae *Carnegiea gigantea* - Saguaro

Cactaceae *Cochiemia* spp. Biznaguita

Cactaceae *Cylindropuntia* spp. except listed in A - Cholla

Cactaceae *Echinocereus* spp. *emoryi* - Hedgehogs, claret-cup hedgehogs

Cactaceae *Echinomastus* spp. that are not listed in Appendix A.(A) - Fishhook cactus

Cactaceae *Epithelantha micromeris* - Pingpong ball cactus

Cactaceae *Escobaria* spp. that are not listed in Appendix A.(A) - Foxtail cactus

Cactaceae *Ferocactus* spp. - Barrel cactus, biznaga

Cactaceae *Grusonia* spp. - Devil-cholla

Cactaceae *Homalocephala polycephala* - Many-headed barrel cactus

Cactaceae *Lophocereus schottii* - Senita

Cactaceae *Mammillaria heyderi* - Heyder's pincushion cactus

Cactaceae *Opuntia* spp. - Prickly-pear

Cactaceae *Pediocactus* spp. except listed in A - Pincushion cactus, pediocactus

Cactaceae *Peniocereus* spp. - Queen-of-the-night cactus

Cactaceae *Sclerocactus* spp. except listed in A - Fishhook cactus

Cactaceae *Stenocereus thurberi* - Organpipe cactus

Campanulaceae *Lobelia fenestralis* - Fringeleaf lobelia

Campanulaceae *Lobelia laxiflora* - Sierra Madre lobelia

Caryophyllaceae *Eremogone aberrans* - Mt. Dellenbaugh Matted Sandwort

Cochlospermaceae *Cochlospermum* spp. - Saiya

Crassulaceae *Dudleya* spp. - Live-forever, echeveria

Crassulaceae *Graptopetalum* spp. - Leather-petals

Crassulaceae *Sedum* spp. - Stonecrop

Crossosomataceae *Apacheria chiricauhensis* - Apache-bush

Cucurbitaceae *Tumamoca mcdougallii* - Tumamoc globeberry

Euphorbiaceae *Euphorbia aaron-rossii* - Marble Canyon spurge

Euphorbiaceae *Euphorbia plummerae* - Huachuca Mountain spurge

Euphorbiaceae *Pleradenophora bilocularis* - Jumping Bean (es: hierba de la flecha)

Fabaceae *Astragalus cobrensis* var. *maguirei* - Maguire's milkvetch

Fabaceae Astragalus cremnophylax - Sentry milkvetch

Fabaceae Astragalus hypoxylus - Huachuca Mountain milkvetch

Fabaceae Astragalus lentiginosus var. maricopae - Maricopa milkvetch

Fabaceae Astragalus nutriosensis - Apache milkvetch

Fabaceae Astragalus xiphoides - Gladiator milkvetch

Fabaceae Cercis orbiculata - California redbud

Fabaceae Dermatophyllum arizonicum - Arizona Western mountain-laurel

Fabaceae Errazurizia rotundata - Roundleaf dunebroom

Fabaceae Olneya tesota - Ironwood, palo fierro

Fabaceae Pediomelum pauperitense

Fabaceae Phaseolus supinus - Supine bean

Fouquieriaceae Fouquieria splendens - Ocotillo

Gentianaceae Gentianella wislizenii - Chiricahua Mountain dwarf gentian

Lamiaceae Hedeoma diffusa - Flagstaff mock pennyroyal

Lamiaceae Monardella arizonica - Arizona monardella

Lamiaceae Salvia dorrii ssp. mearnsii - Purple sage

Lamiaceae Scutellaria potosina var. occidentalis - Kaibab skullcap

Liliaceae Calochortus spp. - Mariposa-lily

Liliaceae Fritillaria atropurpurea - Spotted fritillary

Liliaceae Lilium spp. - Lemon lily

Liliaceae Prosartes trachycarpa - Roughfruit fairy-bells

Liliaceae Streptopus amplexifolius - Twisted stalk

Loasaceae Mentzelia longiloba - Blazing-star

Malvaceae Abutilon parishii - Tucson Indian-mallow

Malvaceae Fremontodendron californicum - Flannel bush

Malvaceae Pseudabutilon thurberi - Baboquivari Indian-mallow

Malvaceae Sphaeralcea rusbyi ssp. gilensis - Gila globe-mallow

Malvaceae Sphaeralcea gierischii - Gierisch's globe-mallow

Nyctaginaceae Boerhavia megaptera - Tucson Mountain spiderling

Onagraceae Camissonia confertiflora - Grand Canyon suncup

Onagraceae Chylismia exilis - Cottonwood Springs beeblossum

Orchidaceae all orchidaceae with exception of those that are listed in Appendix A.(A)

Papaveraceae Argemone arizonica - Grand Canyon prickle-poppy

Pinaceae Pinus aristata - Bristlecone pine

Plantaginaceae Mabrya acerifolia - Brittle-stem

Plantaginaceae Penstemon albomarginatus - Whitemargin beardtongue

Plantaginaceae Penstemon bicolor spp. roseus - Pinto beardtongue

Plantaginaceae Penstemon clutei - Sunset Crater beardtongue

Plantaginaceae Penstemon distans - Mt. Trumbull beardtongue

Plantaginaceae Penstemon linarioides ssp. maguirei - Maguire's beardtongue

Plantaginaceae Penstemon nudiflorus - Flagstaff beardtongue

Plantaginaceae Penstemon subulatus - Hackberry beardtongue

Poaceae Sporobolus interruptus - Black dropseed

Polemoniaceae Linanthus maricopensis - Maricopa linanthus

Polygalaceae Rhinotropis rusbyi - Rusby's desert milkwort

Polygonaceae Eriogonum heermannii var. apachense - Apache buckwheat

Polygonaceae Eriogonum capillare - San Carlos buckwheat

Polygonaceae Eriogonum ericifolium - Yavapai County buckwheat

Polygonaceae Eriogonum jonesii - Jones' buckwheat

Polygonaceae Eriogonum mortonianum - Fredonia buckwheat

Polygonaceae Eriogonum pulchrum - Yavapai County buckwheat

Polygonaceae Eriogonum ripleyi - Frazier's Well buckwheat

Polygonaceae Eriogonum terrenatum - San Pedro River buckwheat

Polygonaceae Eriogonum thompsonae var. atwoodii - Atwood's buckwheat

Portulacaceae Lewisia spp. - Bitter-root

Portulacaceae Phemeranthus spp. - Flameflower

Primulaceae Dodecatheon spp. - Shooting-star

Primulaceae Primula rusbyi - Rusby's primrose

Primulaceae Primula specuicola - Cave-dwelling primrose

Pteridaceae Astrolepis cochisensis subsp. arizonica - Arizona scaly cloakfern

Ranunculaceae Aquilegia spp. - Columbines

Rosaceae Potentilla albiflora - Pinaleno cinquefoil

Rosaceae Potentilla demotica - Hualapai cinquefoil

Rosaceae Potentilla rhyolitica - Santa Rita cinquefoil

Rosaceae Rosa stellata ssp. abyssa - Desert rose

Rosaceae Vauquelinia californica - Arizona rosewood

Rubiaceae Galium collomiae - Fossil Hill Creek bedstraw

Saxifragaceae Heuchera eastwoodiae - Senator Mine allum-root

Saxifragaceae Heuchera glomerulata - Chiricahua Mountain allum-root

Simaoubaceae Castela emoryi - Crucifixion-thorn, corona de cristo

Solanaceae Lycium spp. - Wolfberry, tomatillo

Solanaceae Capsicum annuum var. glabriusculum - Chiltepin

- C. Salvage assessed native plants as prescribed in A.R.S. § 3-903(B)(3) that require a permit issued pursuant to this

Article 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.~~

— ~~*Psoralea argophylla* (Gray) Barneby Smoke tree~~

~~Syn.: *Dalea spinosa* Gray~~

Bignoniaceae Chilopsis linearis - Desert willow

Fabaceae Parkinsonia florida - Blue palo verde

Fabaceae Parkinsonia microphylla - Foothill palo verde

Fabaceae Neltuma odorata - Texas Honey Mesquite

Fabaceae Strombocarpa pubescens - Screwbean mesquite

Fabaceae Neltuma velutina - Velvet mesquite

Fabaceae Psoralea argophylla - Smoke tree

- D. Harvest restricted native plants as prescribed at A.R.S. § 3-903(B)(4) that require a permit issued pursuant to this Article, 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.~~

Asparagaceae Nolina spp. - Bear-grass

Fabaceae Neltuma odorata - Texas Honey Mesquite

Fabaceae Neltuma velutina - Velvet Mesquite

Fabaceae Strombocarpa pubescens - Smoketree