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Continental Ranch Revegetation Project Shows Some Success

by Julia Fonseca

On large tracts of abandoned farmland throughout our state, active efforts toward revegetation may be needed to stem the enduring problem of soil erosion. The recent deaths of motorists caught in a dust storm on Interstate 10 point out the tragic human cost of soil erosion in Arizona's agricultural areas. Yet these extensive tracts of farmland are among the most difficult sites to revegetate with native species. The soil is often compacted, dominated by exotic weeds and depleted in nutrients and mycorrhizal fungi. Native seed sources may be distant, another factor which hampers natural revegetation.

To understand how such lands may be reclaimed, ANPS members visited the banks of the Santa Cruz River north of Cortaro Road in Tucson to view one of the largest revegetation projects in the state. Led by Gary Maskarinec of Wildlands Restoration, we visited the Continental Ranch site on July 27, 1996.

In fall of 1987, Charles Keating's American Continental Corporation (Amcor) funded the revegetation of nearly 600 acres of denuded floodplain it had purchased for development-- land that had been farmed prior to Amcor's

involvement. After Amcor purchased the property, the site was further disturbed by extensive archaeological investigations and construction of soil-cement erosion protection along the Santa Cruz River. Thereafter, Amcor was required by Section 404 of the Clean Water Act to imprint and seed the sandy soils to reduce potential erosion. Imprinting is a mechanical treatment which furrows the soil to increase infiltration and germination of seeds. Irrigation was not required; the revegetation project had to rely on rainfall alone.

By May, 1988, the site supported a good cover of annuals and perennials, according to seedsman Maskarinec, who developed a keen interest in the project. He recalls that *Helianthus annuus* established most quickly, but proved short-lived, as did dropseed. Today the site has a high percentage of cover-- mostly saltbush (*Atriplex lentiformis* and *A. polycarpa*), which was prominent in the original seed mix. In between shrubs, the soil is partially stabilized by cryptogams (also known as microbiotic soil crusts). Because we visited the site at the end of a long drought, we saw few annual plant species.

INSIDE: Checklist, Red Rock State Park, pg.4..Conservation Update, pg. 14.. Spring Calendar, pg. 3.

Wildflower Poster Under Development

A Tucson-based group of ANPS volunteers is working on a poster featuring plants of Arizona's deserts. The poster group is a subcommittee of the Urban Landscape Committee and includes Linda Brewer, Mima Falk, Antoinette Segade, Meg Quinn, Lynn Kaufman, Julia Fonseca, Nancy Zierenburg, Barbara Tellman, Jane Evans, Kristin Johnson and Sue Rutman.

The group began by reviewing flower posters from other states and discussing whether woody species or cacti would be included. The group agreed that we would include flowers from a few shrubs such as ocotillo and fairy duster. We have also enthusiastically selected flowers from a few vines. We intend that the poster use a standard frame size, have a border around the margin and use both scientific and common names.

Narrowing the list of plants down to a manageable level is progressing with consideration for variety in form, color, geographic distribution and flowering season. Antoinette Segade's superlative collection of slides of Arizona's wildflowers is assisting the decision-making.

The poster group hopes to solicit bids from artists in early February. The Publications Committee will see that the poster is printed and distributed.

At the November Board meeting, the Board began planning for the 1997 and 1998 annual meetings. Those persons with ideas for speakers and field trips for a Phoenix-based meeting should contact Sue Rutman. The theme of the Phoenix meeting would be native plant landscaping. Julia Fonseca will investigate having a meeting in Wickenburg. The Wickenburg meeting would feature a field trip to the Nature Conservancy's Hassayampa Preserve.

Please direct other field trip and speaker ideas for the Wickenburg meeting to Julia. The relative order of the meetings will be chosen based on the responses of the hosting organizations.

Spring Calendar

Mar. 21-23 (Fri.-Sun.): **Desert Botanical Garden's Spring Plant Sale**, Papago Park, Phoenix. Members-only presale on Friday, 3-6 p.m. Saturday and Sunday hours are 9 a.m.-5 p.m.

Mar. 22-23 (Sat.-Sun.): **Spring Plant Sale at the Tucson Botanical Gardens**, 2150 N. Alvernon Way, Tucson. Open to the public Sat. 10 a.m.-4 p.m. and Sun. 12 noon to 5 p.m.

Mar. 21- Apr. 6 (Fri.- Sun.): **Boyce Thompson Arboretum Spring Plant Sale** 8 a.m.-5 p.m. daily.

Apr. 4-6 (Fri.-Sun.): **Desert Survivors Spring Plant Sale**, 1022 W. 22nd St. Members only on Fri., 4 p.m. to dark; Sat., 8 a.m.-4 p.m.; Sun., 10 a.m.-4 p.m.

Year-round: **Tohono Chul Park**, 7366 Paseo del Norte, Tucson. Mon.-Sat., 10 a.m.-4 p.m. from Oct. 1- May 1; 9 a.m.-1 p.m. from May 1 to October 1.

Other species successfully established include velvet mesquite, blue palo verde and white thorn acacia. Maskarinec said that he had hoped to have greater success with tree species, but he observed that the contractors had problems distributing the large, heavy tree seeds with their equipment. Mexican palo verde (*Parkinsonia* sp.), condalia, *Aristida glabrata* and desert willow (*Chilopsis linearis*) established on their own.

The revegetation site stands in contrast to adjacent abandoned farmland, where there are few perennial species of any kind to protect the soil. Since desert broom is one of the most common perennials on these adjacent fields, the low occurrence of broom on the revegetation site is surprising. Maskarinec said that no post-seeding weed control was performed. He believes one of the keys to a successful seeding project is a diverse seed mix, something with summer and winter growth potential to germinate quickly and establish cover before more weedy species take over.

The Continental Ranch revegetation site shows that farmland in the low desert can be successfully stabilized against erosion using native plants without irrigation. The project is also a testimony to the benefits of Section 404 of the Clean Water Act and agencies such as the Arizona Game and Fish Department and Pima County Flood Control District, which insisted that the site be revegetated.

A happy and healthy new year to all of our readers! You may notice a feature missing in this issue. Our "Notes from the President" is on hiatus until the vacancy is filled in that position (fortunately, Sue Rutman and Mima Falk have stepped in as copresidents in the interim).

In this issue, Julia Fonseca gives us a report on the progress of the Continental Ranch revegetation project near Tucson. Its success is an encouraging sign for other restoration projects on abandoned farmland within our state.

Five years ago, Red Rock State Park near Sedona opened up its 286 acres as a habitat protection area and environmental education facility. Located at elevations of 3800-4200 feet, it is home to a variety of habitats including riparian-- 1 1/2 miles of Oak Creek courses through it-- juniper-pinyon, chaparral and some grassland. The "Checklist of Vascular Plants, Red Rock State Park" was prepared by Norman B. Herkenham, a staff botanist at the park at the time. The park is open year round from 9 a.m. to 5 p.m. and seeks volunteer botanists for its educational programs. Call (520) 282-6907 for more information.

— *Balbir*



Atriplex spp. form a prominent cover at the Continental Ranch revegetation site. Photo by Gary Maskarinec

Checklist of Vascular Plants, Red Rock State Park, Yavapai County, Arizona

Compiled by Norman B. Herkenham
with family Gramineae by Albert R. Purchase
1988-1990

Nomenclature in this checklist conforms basically with the widely accepted *Arizona Flora* by Kearney and Peebles (1951) and its 1960 supplement by Howell and McClintock, University of California Press. The exception is the family Cactaceae, for which *The Cacti of Arizona* by Lyman Benson (third edition, 1969), University of Arizona Press, is used for guidance. Even these references are not the final authorities for scientific and common names herein. The ultimate source is *A Catalogue of the Flora of Arizona* by J. Harry Lehr, Desert Botanical Garden (1978) and its supplements I (1980) and II (1982). In most cases, the nomenclature in Lehr's *Catalogue* is that generally adopted by the botanical community today, reflecting current literature and research. In the checklist below, wherever Lehr's scientific name differs from that in Kearney and Peebles or Benson, the latter follows in parentheses as a synonym. The arrangement of genera and species within each family is strictly alphabetical.

It will be noted that some plants in the list have no recognized common name, while others have two or more (not all necessarily appearing in Lehr). Where duplication in common names exists, those in Lehr are usually listed first. There is no attempt here to inventory all known common names for a given plant, but only those found in general usage.

Arizona's plant communities include many species with an exotic origin that are merely adventives or have become more or less established or naturalized to take their place among the native flora. The following checklist contains a few species whose inclusion may warrant some comment. For example, *Catalpa speciosa* (hardy catalpa), *Morus alba* (white mulberry), *Ulmus pumila* (Siberian elm) and *Cannabis sativa* (hemp, marijuana) are not listed in *Arizona Flora* but can be regarded as adventives which have found their way into the park's vegetation through natural processes, presumably from cultivation somewhere in the vicinity. Much less surprising are *Asparagus officinalis* (garden asparagus), *Pastinacea sativa*

(common parsnip), *Apium graveolens* (common celery) and certain cereal grasses which are surely escapes from cultivation that have attained some degree of naturalization. At the end of the checklist is another listing of mainly arboreal species whose presence in scattered locations in the park is more attributable to direct introduction by man. These do not necessarily include the plantings made during the summer of 1990 for landscaping purposes.

Referral to the collections in the Deaver Herbarium at Northern Arizona University and consultation with members of its staff were of invaluable assistance in resolving some of the identifications in this checklist. Similar referrals of many of the Gramineae species to the staff of the University of Arizona herbarium were also of great value.

Checklist of Vascular Plants-- Red Rock State Park

Equisetaceae-- Horsetail Family

- Equisetum arvense*-- Common Horsetail
- Equisetum hiemale* var. *affine*-- Scouring rush,
canuela
- Equisetum laevigatum*-- Smooth scouring-rush

Adiantaceae-- Maidenhair Fern Family

- Pellaea truncata* (= *P. longimucronata*)--
Cliffbrake

Pinaceae-- Pine Family

- Pinus edulis*-- Pinyon, pinyon pine
- Pinus monophylla*-- Singleleaf pinyon
- Pinus ponderosa* var. *scopulorum*-- Ponderosa
pine, western yellow pine

Cupressaceae-- Cypress Family

- Cupressus arizonica* var. *glabra*-- Smoothbark
Arizona cypress
- Juniperus monosperma*-- One-seed juniper
- Juniperus osteosperma*-- Utah juniper

Ephedraceae-- Jointfir Family

- Ephedra viridis*-- Green jointfir,
mountain jointfir, Mormon tea

Typhaceae-- Cattail Family*Typha latifolia*-- Broadleaf cattail**Potamogetonaceae-- Pondweed Family***Potamogeton foliosus*-- Leafy pondweed*Potamogeton nodosus*-- Pondweed**Gramineae-- Grass Family***Agropyron intermedium*-- Intermediate
wheatgrass*Agropyron trachycaulum*-- Slender wheatgrass*Agropyron trachycaulum* var. *unilaterale*(= *A. subsecundum*)-- Bearded wheatgrass*Agrostis semiverticillata*-- Water bent*Agrostis stolonifera* (= *A. alba*)-- Redtop*Agrostis stolonifera* var. *palustris*(= *A. palustris*)-- Creeping bent*Aristida divaricata*-- Poverty three-awn*Aristida glabrata*-- Three-awn*Aristida purpurea* var. *glauca*(= *A. glauca*)-- Reverchon three-awn*Aristida purpurea* var. *longiseta*(= *A. longiseta*)-- Red three-awn*Aristida ternipes*-- Spidergrass*Arundo donax*-- Giant reed*Avena fatua*-- Wild oat*Avena sativa*-- Oat*Bothriochloa barbinodis*(= *Andropogon barbinodis*)-- Beardgrass*Bouteloua aristidoides*-- Needle grama*Bouteloua barbata*-- Six-weeks grama*Bouteloua curtipendula*-- Side-oats grama*Bouteloua eriopoda*-- Black grama*Bromus anomalus* (= *B. porteri*)-- Nodding
brome*Bromus inermis*-- Smooth brome*Bromus japonicus*-- Japanese chess*Bromus marginatus*-- Bromegrass*Bromus rigidus*-- Rippgut grass*Bromus rubens*-- Red brome, foxtail chess*Cenchrus insertus* (= *C. pauciflorus*)-- Field
sandbur*Chloris virgata*-- Feather fingergrass*Cynodon dactylon*-- Bermuda grass*Digitaria sanguinalis*-- Common crabgrass*Echinochloa crusgalli*-- Barnyard grass*Elymus canadensis*-- Canada wild-rye*Eragrostis cilianensis*-- Stinkgrass*Eragrostis curvula*-- Weeping lovegrass*Eragrostis intermedia*-- Plains lovegrass*Erioneuron pilosum*-- (= *Tridens pilosus*)--
Hairy tridens*Erioneuron pulchellum* (= *Tridens pulchellus*)--
Fluffgrass*Festuca pratensis* (= *F. elatior*)-- Meadow fescue*Glyceria elata*-- Tall mannagrass*Hilaria mutica*-- Tobosa*Holcus lanatus*-- Velvetgrass*Hordeum glaucum* (= *H. stebbinsii*)-- Wild
barley*Leptochloa dubia*-- Green sprangletop*Leptochloa filiformis*-- Red sprangletop*Lolium multiflorum*-- Italian ryegrass*Lolium perenne*-- Perennial ryegrass*Muhlenbergia porteri*-- Bush muhly*Muhlenbergia rigens*-- Deergrass*Panicum capillare* var. *occidentale*-- Witchgrass*Panicum obtusum*-- Vine-mesquite*Panicum virgatum*-- Switchgrass*Paspalum dilatatum*-- Dallis grass*Paspalum distichum*-- Knotgrass*Phalaris arundinacea*-- Reed canary grass*Poa bigelovii*-- Bigelow bluegrass*Poa fendleriana*-- Muttongrass*Poa pratensis*-- Kentucky bluegrass*Polypogon monspeliensis*-- Rabbitfoot grass*Secale cereale*-- Rye*Setaria geniculata*-- Knotroot bristlegrass*Setaria glauca* (= *S. lutescens*)-- Yellow
bristlegrass*Setaria grisebachii*-- Grisebach bristlegrass*Setaria macrostachya*-- Plains bristlegrass*Setaria viridis*-- Green bristlegrass, grass-foxtail*Sitanion hystrix*-- Squirreltail*Sorghum halepense*-- Johnson grass*Sphenopholis obtusata*-- Prairie wedgegrass*Sporobolus contractus*-- Spike dropseed*Sporobolus cryptandrus*-- Sand dropseed*Vulpia octoflora* (= *Festuca octoflora*)-- Six-
weeks fescue**Cyperaceae-- Sedge Family***Carex hystericina*-- Porcupine caricesedge,
bottlebrush caricesedge*Carex nebrascensis*-- Sedge*Carex senta*-- River sedge*Carex vulpinoidea*-- Sedge*Cyperus acuminatus*-- Flatsedge*Cyperus esculentus*-- Yellow nutsedge, yellow
nutgrass, chufa*Cyperus niger* var. *capitatus*-- Black flatsedge*Cyperus uniflorus*-- Flatsedge*Scirpus americanus* var. *polyphyllus*-- Three-
square bulrush*Scirpus microcarpus*-- Panicked bulrush*Scirpus olneyi*-- Olney bulrush*Scirpus validus* (= *S. acutus*)-- Softstem
bulrush, great bulrush**Lemnaceae-- Duckweed Family***Lemna minuta* (= *L. minima*)-- Duckweed**Commelinaceae-- Spiderwort Family***Tradescantia occidentalis*-- Spiderwort

Pontederiaceae-- Pickerelweed Family

Heteranthera dubia-- Water-stargrass, mud-plantain

Juncaceae-- Rush Family

Juncus ensifolius var. *brunnescens*
(= *J. saximontanus* forma *brunnescens*)-- Rush
Juncus mexicanus-- Rush
Juncus tenuis var. *dudleyi*-- Slender rush
Juncus torreyi-- Torrey rush

Liliaceae-- Lily Family

Asparagus officinalis -- Garden asparagus
Calochortus flexuosus-- Straggling mariposa, mariposa-lily
Dichelostemma pulchellum- var. *pauciflorum*-- Bluedicks

Agavaceae-- Agave Family

Agave parryi-- Parry agave
Nolina microcarpa-- Beargrass, sacahuista
Yucca baccata var. *vespertina*-- Banana yucca, blue yucca, datil
Yucca elata-- Soaptree yucca

Orchidaceae-- Orchid Family

Epipactis gigantea-- Giant helleborine, stream-orchis

Salicaceae-- Willow Family

Populus fremontii-- Fremont cottonwood
Salix amygdaloides-- Peachleaf willow
Salix bonplandiana (= *S. laevigata* var. *araquipa*)-- Bonpland willow, red willow
Salix exigua-- Coyote willow, narrowleaf willow, basket willow, sandbar willow
Salix gooddingii-- Goodding willow

Juglandaceae-- Walnut Family

Juglans major-- Arizona walnut

Betulaceae-- Birch Family

Alnus oblongifolia-- Arizona alder

Fagaceae--Beech Family

Quercus arizonica-- Arizona white oak
Quercus chrysolepis-- Canyon live oak
Quercus dunnii-- Palmer oak
Quercus turbinella-- Shrub live oak, turbinella oak

Ulmaceae-- Elm Family

Celtis reticulata-- Netleaf hackberry
Ulmus pumila-- Siberian elm

Moraceae-- Mulberry Family

Cannabis sativa-- Hemp, marijuana
Humulus americanus-- American hop

Morus alba-- White mulberry

Morus microphylla-- Texas mulberry

Urticaceae-- Nettle Family

Parietaria hespera (= *P. floridana*)-- Pellitory

Viscaceae-- Mistletoe Family

Phoradendron tomentosum ssp. *macrophyllum*
(= *P. flavescens* var. *macrophyllum*)-- Mistletoe
Phoradendron juniperinum-- Mistletoe

Santalaceae-- Sandalwood Family

Comandra pallida-- Bastard-toadflax

Polygonaceae-- Buckwheat Family

Eriogonum abertianum-- Abert wild-buckwheat
Eriogonum jamesii var. *flavescens*
(= *E. bakeri*)-- Yellow antelope-sage
Eriogonum microthecum var. *foliosum*
(= *E. simpsoni*)-- Simpson wild-buckwheat
Eriogonum palmerianum (= *E. densum*)
Eriogonum polycladon-- Sorrel eriogonum
Eriogonum wrightii-- Wright wild-buckwheat
Polygonum argyrocoleon-- Silversheath knotweed
Polygonum aviculare var. *littorale*-- Prostrate knotweed, common knotweed
Polygonum convolvulus-- Black-bindweed, combind
Polygonum lapathifolium-- Common knotweed, willow smartweed
Polygonum pennsylvanicum-- Pinkweed
Polygonum persicaria-- Lady's thumb
Polygonum punctatum-- Water smartweed
Rumex altissimus-- Peachleaf dock, pale dock
Rumex crispus-- Curly dock
Rumex hymenosepalus-- Canaigre, wild-rhubarb
Rumex obtusifolius-- Bitter dock

Chenopodiaceae-- Goosefoot Family

Atriplex canescens-- Fourwing saltbush
Atriplex elegans-- Wheelscale saltbush
Atriplex rosea-- Redscale, red orache
Chenopodium album-- Common lambs-quarters
Chenopodium berlandieri var. *sinuatum*-- Pitseed goosefoot
Chenopodium botrys-- Jerusalem-oak, feather-geranium
Chenopodium dessicatum-- Narrowleaf goosefoot
Chenopodium fremontii-- Fremont goosefoot
Chenopodium incanum var. *elatum*
(= *C. fremontii* var. *incanum*)-- Goosefoot
Chenopodium pratericola
(= *C. dessicatum* var. *leptophylloides*)-- Goosefoot
Kochia scoparia-- Summer cypress

Salsola iberica (= *S. kali* var. *tenuifolia*)--
Russian-thistle

Amaranthaceae-- Amaranth Family

Amaranthus albus -- Tumble pigweed
Amaranthus graecizans-- Prostrate pigweed
Amaranthus palmeri-- Carelessweed, Palmer
amaranth, redroot

Nyctaginaceae-- Four-o'clock Family

Allionia incarnata-- Trailing-four-o'clock,
windmills
Boerhaavia coccinea-- Red spiderling
Boerhaavia coulteri-- Coulter spiderling
Boerhaavia erecta-- Spiderling
Mirabilis coccinea (= *Oxybaphus coccineus*)
Mirabilis linearis (= *Oxybaphus linearis*)
Mirabilis longiflora var. *wrightiana*-- Sweet
four-o'clock
Mirabilis multiflora-- Colorado four-o'clock
Mirabilis pumila (= *Oxybaphus pumilus*)

Portulacaceae-- Portulaca Family

Calandrinia ciliata var. *menziesii*-- Red maids
Portulaca oleracea-- Common purslane, pusley
Portulaca parvula-- Purslane
Portulaca retusa-- Western pusley
Talinum aurantiacum-- Flameflower

Caryophyllaceae-- Pink Family

Saponaria officinalis-- Bouncing bet, soapwort
Silene antirrhina-- Sleepy catchfly

Ranunculaceae-- Crowfoot Family

Aquilegia chrysantha-- Golden columbine
Clematis ligusticifolia-- Clematis, virgin's
bower
Delphinium scaposum-- Barestem larkspur
Ranunculus aquatilis var. *capillaceus*--
White water crowfoot, water buttercup
Thalictrum fendleri-- Fendler meadowrue
Anemone tuberosa-- Desert windflower

Berberidaceae-- Barberry Family

Berberis haematocarpa-- Red barberry, red
mahonia, algerita

Papaveraceae-- Poppy Family

Eschscholzia californica ssp. *mexicana*
(= *E. mexicana*)-- Mexican goldpoppy

Fumariaceae-- Fumitory Family

Corydalis aurea ssp. *occidentalis*--
Golden corydal, scrambled eggs

Cruciferae-- Mustard Family

Arabis glabra-- Tower-mustard

Arabis perennans-- Rockcress
Brassicakaber-- Charlock
Brassica nigra-- Black mustard
Capsella bursa-pastoris-- Shepherd's purse
Chorispora tenella
Descurainia obtusa ssp. *adenophora*-- Tansy
mustard
Descurainia pinnata var. *glabra*-- Yellow tansy-
mustard

Descurainia sophia-- Flixweed
Dithyrea wislizeni-- Spectacle-pod
Draba cuneifolia-- Whitlow-grass
Erysimum asperum var. *purshii*
(= *E. capitatum*)-- Western wallflower
Lepidium lasiocarpum var. *typicum*-- Sand
peppergrass

Lepidium virginicum var. *medium*
(= *L. medium*)-- Peppergrass
Lepidium virginicum var. *pubescens*
(= *L. medium* var. *pubescens*)-- Peppergrass
Lesquerella arizonica-- Bladderpod
Lesquerella gordonii-- Gordon bladderpod
Nasturtium officinale (= *Rorippa nasturtium-*
aquaticum)-- Watercress
Rorippa islandica-- Bog marshcress
Sisymbrium altissimum-- Tumble-mustard
Sisymbrium irio-- London rocket
Thelypodium wrightii
Thysanocarpus curvipes var. *elegans*
(= *T. amplexans*)-- Fringepod

Cleomaceae-- Cleome Family

Cleome lutea var. *jonesii* (= *C. jonesii*)--
Yellow beeplant, yellow spiderflower
Polanisia dodecandra ssp. *trachysperma*
(= *P. trachysperma*)-- Western clammyweed

Saxifragaceae-- Saxifrage Family

Fendlera rupicola-- Fendlerbush, false-
mockorange

Platanaceae-- Plane-tree Family

Platanus wrightii-- Arizona sycamore

Crossosomataceae-- Crossosoma Family

Forsellesia nevadensis (= *Glossopetalon*
nevadense)-- Greasebush

Rosaceae-- Rose Family

Cercocarpus montanus var. *montanus*--
Alderleaf mountain-mahogany
Cowania mexicana var. *stansburiana*-- Cliffrose,
quinine-bush
Fallugia paradoxa-- Apache plume
Rosa fendleri-- Fendler rose
Rubus procerus-- Himalaya-berry

Leguminosae-- Pea Family

A. Mimosoideae-- Mimosa

Subfamily

Acacia greggii var. *arizonica*-- Catclaw

Mimosa biuncifera-- Wait-a-minute, catclaw
mimosa

Prosopis velutina (= *P. juliflora* var. *velutina*)--
Velvet mesquite

B. Caesalpinioideae-- Senna

Subfamily

Hoffmanseggia drepanocarpa-- Sicklepod
rushpea

Senna bauhinioides (= *Cassia bauhinioides*)--
Twoleaf desert senna

C. Papilionoideae-- Bean Subfamily

Astragalus allochrous-- Halfmoon loco

Astragalus calycosus var. *scaposus*-- Gray
locoweed

Astragalus eremiticus

Astragalus lentiginosus var. *wilsonii*-- Spotted
loco

Astragalus nuttallianus var. *austrinus*-- Nuttall
loco, peavine

Astragalus wootoni-- Wooton loco, bladderpod
loco

Dalea formosa-- Feather dalea, indigo-bush

Dalea nana-- Dwarf dalea

Desmodium metcalfei-- Metcalf tick-clover,
tick-trefoil, beggarticks, sticktight

Lotus corniculatus-- Birdsfoot-trefoil

Lotus humistratus-- Hill-locust

Lotus wrightii-- Wright lotus

Lupinus concinnus-- Elegant lupine

Medicago lupulina-- Black medick, none-such

Medicago minima-- Small burclover

Medicago sativa-- Alfalfa

Melilotus albus-- White sweetclover

Melilotus officinalis-- Yellow sweetclover

Phaseolus angustissimus var. *latus*-- Bean

Psoralea tenuiflora-- Scurvy-pea

Robinia neomexicana-- New Mexico locust

Trifolium repens-- White clover

Vicia ludoviciana (= *V. exigua*)-- Slender vetch

Krameriaceae-- Ratany Family

Krameria parviflora-- Range ratany

Geraniaceae-- Geranium Family

Erodium cicutarium-- Filaree, alfilaria

Erodium texanum-- Largeflower storksbill

Linaceae-- Flax Family

Linum lewisii-- Blue flax

Linum puberulum-- Plains flax

Zygophyllaceae-- Caltrop Family

Kallstroemia californica-- California caltrop

Tribulus terrestris-- Puncture-vine,
caltrop, bullhead, burnut

Rutaceae-- Rue Family

Ptelea trifoliata ssp. *angustifolia*

(= *P. angustifolia*)-- Narrowleaf hoptree

Thamnosma texana-- Dutchman's breeches

Polygalaceae-- Milkwort Family

Polygala longa-- Milkwort

Polygala obscura-- Milkwort

Polygala scoparioides-- Milkwort

Euphorbiaceae-- Spurge Family

Acalypha neomexicana-- New Mexico

copperleaf, threeseed mercury

Croton texensis-- Doweweed

Euphorbia albomarginata-- Rattlesnake-weed,
whitemargin spurge

Euphorbia fendleri var. *chaetocalyx*-- Fendler
spurge

Euphorbia glyptosperma-- Ribseed sandmat

Euphorbia hyssopifolia-- Hyssop spurge

Euphorbia micromera-- Sonoran sandmat

Euphorbia polycarpa-- Smallseed sandmat

Euphorbia prostrata-- Groundfig spurge

Euphorbia revoluta

Euphorbia serpyllifolia-- Thymleaf spurge

Euphorbia spathulata

Euphorbia supina-- Prostrate spurge, spotted
spurge

Anacardiaceae-- Cashew Family

Rhus glabra-- Smooth sumac, scarlet sumac

Rhus ovata-- Sugar sumac, sugarbush

Rhus trilobata var. *anisophylla*-- Squawbush,
skunkbush

Rhus trilobata var. *pilosissima*-- Squawbush,
skunkbush

Toxicodendron rydbergii (= *Rhus radicans* var. *r*
ydbergii)-- Poison-ivy, poison oak

Celastraceae-- Bittersweet Family

Canotia holacantha-- Canotia, false-paloverde

Aceraceae-- Maple Family

Acer negundo ssp. *californicum*

(= *A. n.* var. *interius*)-- Box-elder

Sapindaceae-- Soapberry Family

Sapindus saponaria var. *drummondii*-- Western
soapberry

Rhamnaceae-- Buckthorn Family

- Ceanothus greggii*-- Gregg ceanothus,
buckbrush
Rhamnus californica ssp. *ursina*-- California
buckthorn, coffeeberry
Rhamnus crocea var. *ilicifolia*-- Hollyleaf
buckthorn
Ziziphus obtusifolia var. *canescens*
(= *Condalia lycioides* var. *canescens*)--
Graythorn

Vitaceae-- Grape Family

- Parthenocissus vitacea* (= *P. inserta*)-- Thicket
creeper, Virginia creeper
Vitis arizonica-- Canyon grape

Malvaceae-- Mallow Family

- Abutilon parvulum*-- Small-leaf abutilon,
Indian-mallow
Malva neglecta-- Common mallow, dwarf
mallow, roundleaf mallow, cheesec
Sida procumbens
Sphaeralcea fendleri var. *venusta*-- Fendler
globemallow
Sphaeralcea grossulariaefolia var. *pedata*--
Gooseberryleaf globemallow
Sphaeralcea parviflora-- Littleleaf globemallow
Sphaeralcea subhastata var. *pumila*--
Globemallow

Guttiferae-- St. Johnswort Family

- Hypericum formosum*-- St. Johnswort

Tamaricaceae-- Tamarix Family

- Tamarix chinensis* (= *T. pentandra*)-- Tamarisk,
saltcedar

Violaceae-- Violet Family

- Hybanthus verticillatus*-- Green-violet

Loasaceae-- Stickleaf Family

- Mentzelia pumila*-- Blazing-star, stickleaf

Cactaceae-- Cactus Family

- Coryphantha vivipara* var. *arizonica*
(= *Mamillaria arizonica*)--
Beehive cactus, biscuit cactus
Echinocereus fendleri var. *fendleri*-- Fendler
hedgehog cactus
Echinocereus triglochidiatus var. *melanacanthus*--
Hedgehog cactus, claretcup cactus
Opuntia chlorotica-- Pancake-pear
Opuntia leptocaulis-- Desert Christmas cactus
Opuntia phaeacantha var. *discata* (= *O.*
engelmannii)-- Engelmann pricklypear

- Opuntia phaeacantha* var. *major* (= *O.*
phaeacantha)-- Purplefruit pricklypear
Opuntia whipplei var. *whipplei*-- Whipple
cholla

Elaeagnaceae-- Oleaster Family

- Elaeagnus angustifolia*-- Russian-olive

Lythraceae-- Loosestrife Family

- Lythrum californicum*-- Purple-loosestrife,
hierba del cancer

Onagraceae-- Eveningprimrose Family

- Camissonia chamaenerioides* (= *Oenothera*
chamaenerioides)-- Longcapsule-
primrose
Clarkia purpurea ssp. *quadrivulnera*
Epilobium adenocaulon var. *parishii*--
Willowweed
Epilobium paniculatum forma *subulatum*
Gaura coccinea-- Scarlet gaura, butterflyweed
Gaura hexandra ssp. *gracilis* (= *G. gracilis*)--
Slender gaura
Gaura parviflora-- Velvetleaf gaura, lizard-tail
Oenothera albicaulis-- Prairie eveningprimrose
Oenothera caespitosa var. *marginata*-- Large
white desert-primrose
Oenothera hookeri ssp. *hewettii*-- Hooker
eveningprimrose
Oenothera pallida-- Pale eveningprimrose

Umbelliferae-- Parsley Family

- Apium graveolens*-- Common celery
Berula erecta-- Water-parsnip
Cicuta maculata (= *C. douglasii*)-- Water-
hemlock
Cymopterus multinervatus-- Purple cymopterus
Daucus pusillus-- American carrot
Lomatium foeniculaceum ssp. *macdougallii*
(= *L. macdougallii*)-- Macdougall Indian-
root, biscuit-root, hog-fennel
Lomatium nevadense var. *parishii*-- Parish wild-
parsley
Pastinacea sativa-- Common parsnip

Garryaceae-- Silktassel Family

- Garrya flavescens*-- Quininebush, yellowleaf
silktassel
Garrya wrightii-- Wright silktassel

Ericaceae-- Heather Family

- Arctostaphylos pungens*-- Mexican manzanita,
pointleaf manzanita

Fouquieriaceae-- Ocotillo Family

- Fouquieria splendens*-- Ocotillo, coachwhip

Oleaceae-- Olive Family

- Forestiera pubescens* (= *F. neomexicana* var. *arizonica*)-- Adelia, New Mexico forestiera, desert-olive, tanglebrush
Fraxinus anomala (= *F. lowellii*)-- Singleleaf ash, Lowell ash
Fraxinus velutina-- Velvet ash
Menodora scabra-- Rough menodora

Apocynaceae-- Dogbane Family

- Apocynum cannabinum* var. *glaberrimum*-- Dogbane, Indian-hemp

Asclepiadaceae-- Milkweed Family

- Asclepias asperula* ssp. *capricornu* (= *A. capricornu*)-- Antelope horns, milkweed
Asclepias subverticillata-- Poison milkweed, western whorled milkweed, horsetail milkweed
Matelea producta (= *Gonolobus productus*)-- Angle-pod
Sarcostemma cynanchoides (= *Funastrum cynanchoides*)-- Climbing-milkweed

Convolvulaceae-- Morning-glory Family

- Convolvulus arvensis*-- Field bindweed
Evolvulus nuttallianus (= *E. pilosus*)
Evolvulus sericeus
Ipomoea costellata-- Morning-glory
Ipomoea hederacea-- Morning-glory
Ipomoea hederifolia (= *I. coccinea* var. *hederifolia*)-- Scarlet morning-glory, starglory, scarlet-creeper
Ipomoea purpurea var. *diversifolia* (= *I. hirsutula*)-- Woolly morning-glory, Mexican morning-glory

Polemoniaceae-- Phlox Family

- Allophyllum gilioides* (= *Gilia gilioides*)-- Straggling-gilia
Eriastrum diffusum
Eriastrum eremicum
Gilia flavocincta
Gilia leptomeria-- Toothleaf gilia
Gilia sinuata
Ipomopsis aggregata (= *Gilia aggregata*)-- Skyrocket, scarlet-gilia
Ipomopsis longiflora (= *Gilia longiflora*)-- Whiteflower-gilia, longflower-gilia
Ipomopsis multiflora (= *Gilia multiflora*)-- Manyflower-gilia
Linanthus aureus-- Golden linanthus
Linanthus bigelovii-- Bigelow linanthus
Microsteris gracilis

Hydrophyllaceae-- Waterleaf Family

- Eriodictyon angustifolium*-- Narrowleaf yerba-santa, mountain-balm

- Phacelia affinis*-- Purple-bell phacelia
Phacelia ambigua (= *P. crenulata* var. *ambigua*)-- Notchleaf phacelia
Phacelia distans var. *australis*-- Wild-heliotrope
Phacelia magellanica-- Phacelia

Boraginaceae-- Borage Family

- Amsinckia intermedia*-- Coast fiddleneck
Cryptantha barbiger-- Bearded cryptantha
Cryptantha crassise-pala-- Thick-se-paled cryptantha
Cryptantha gracilis-- Slender cryptantha
Cryptantha micrantha-- Purpleroo-t cryptantha
Cryptantha nevadensis-- Nevada cryptantha
Cryptantha pterocarya-- Wingnut cryptantha
Lappula redowskii-- Stickseed
Lithospermum incisum-- Gromwell, puccoon
Pectocarya platycarpa-- Broadnut comb-bur
Pectocarya setosa-- Stiffstem comb-bur, moonseed
Plagiobothrys arizonicus-- Bloodweed, Arizona popcorn-flower

Verbenaceae-- Vervain Family

- Aloysia wrightii*-- Wright-lippia, lemon-verbena, oreganillo
Glandularia bipinnatifida var. *bipinnatifida* (= *V. ciliata*)-- Mexican vervain
Glandularia gooddingii (= *Verbena gooddingii*)-- Goodding-verbena
Tetradlea couleri
Verbenabracteata-- Prostrate vervain

Labiatae-- Mint Family

- Agastache wrightii*-- Wright giant-hyssop
Hedeoma nanum ssp. *macrocalyx*-- Mock-pennyroyal
Hedeoma oblongifolium-- Mock-pennyroyal
Lamium amplexicaule-- Henbit, deadnettle
Marrubium vulgare-- Common horehound
Mentha arvensis var. *villosa*-- Field mint
Mentha spicata-- Spearmint
Monarda menihae-folia-- Beebalm, horsemint
Nepeta cataria-- Catnip
Salvia dorrii ssp. *mearnsii*-- Mearns desert sage
Scutellaria lateriflora-- Mad-dog skullcap

Solanaceae-- Potato Family

- Chamaesaracha coronopus*-- Small-groundcherry
Datura meteloides-- Sacred datura, toiguacha
Lycium pallidum-- Wolfberry, tomatilla, rabbit-thorn
Margaranthus solanaceus-- Netted-globeberry
Nicotiana trigonophylla-- Desert tobacco
Physalis hederac-folia-- Ivy-leaf groundcherry
Physalis hederac-folia var. *cordifolia* (= *P. fendleri*)-- Fendler groundcherry
Solanum americanum-- American nightshade

Solanum elaeagnifolium-- Silverleaf
 nightshade, white horsenettle, trompillo
Solanum rostratum-- Buffalo-bur, prickly
 nightshade
Solanum xanti-- Purple nightshade

Scrophulariaceae-- Figwort Family

Castilleja chromosa-- Indian paintbrush
Cordylanthus parviflorus-- Smallflower
 birdbeak, clubflower
Linaria dalmanica-- Toadflax
Maurandya antirrhiniflora-- Blue snapdragon-
 vine, twining-snapdragon
Mimulus guttatus-- Yellow monkeyflower
Mimulus rubellus-- Redstem mimulus
Orthocarpus purpurascens var. *palmeri*--
 Mohave owllover, escobita
Penstemon barbatus-- Scarlet bugler
Penstemon bridgesii-- Bridges penstemon
Penstemon eatoni ssp. *undosus*-- Eaton
 penstemon, firecracker
Penstemon jamesii ssp. *ophianthus*-- James
 penstemon
Penstemon linarioides ssp. *sileri*-- cardtongue
Penstemon palmeri-- Scented penstemon,
 Palmer penstemon
Penstemon pseudospectabilis ssp.
connatifolius-- Desert beardtongue
Penstemon thurberi-- Thurber penstemon
Verbascum thapsus-- Common mullein
Veronica americana-- American brooklime
Veronica anagallis-aquatica-- Water speedwell,
 brook-pimpernel
Veronica polita-- Wayside speedwell

Bignoniaceae-- Bignonia Family

Catalpa speciosa-- Hardy catalpa
Chilopsis linearis var. *arcuata*-- Desert-willow,
 desert-catalpa

Martyniaceae-- Unicorn-plant Family

Proboscidea parviflora-- Devil's claw, unicorn-
 plant

Orobanchaceae-- Broomrape Family

Orobanche cooperi (= *O. ludoviciana* var.
cooperi)-- Burroweed strangler,
 broomrape

Plantaginaceae-- Plantain Family

Plantago lanceolata-- Buckhorn plantain,
 ribwort
Plantago major-- Common plantain
Plantago patagonica var. *gnaphalioides* (= *P.*
purshii)-- Pursh plantain, Indian-wheat

Rubiaceae-- Madder Family

Galium proliferum-- Great Basin bedstraw
Galium stellatum var. *eremicum*-- Desert
 bedstraw
Galium wrightii-- Wright bedstraw
Galium wrightii var. *rothrockii* (= *G. r.*
othrockii)-- Rothrock bedstraw

Caprifoliaceae-- Honeysuckle Family

Lonicera japonica-- Japanese honeysuckle
Symphoricarpos rotundifolius-- Roundleaf
 snowberry

Cucurbitaceae-- Gourd Family

Cucurbita foetidissima-- Buffalo-gourd,
 calabazilla

Campanulaceae-- Bellflower Family

Lobelia cardinalis ssp. *graminea*-- Cardinal-
 flower
Nemacladus glanduliferus var. *orientalis*--
 Thread-plant

Compositae-- Sunflower Family

Achillea millefolium var. *lanulosa* (= *A.*
lanulosa)-- Western yarrow, milfoil
Acourtia wrightii (= *Perezia wrightii*)--
 Brownfoot
Ambrosia acanthicarpa (= *Franseria*
acanthicarpa)-- Annual burweed
Ambrosia aptera-- Bloodweed
Ambrosia confertiflora (= *Franseria*
confertiflora)-- Slimleaf bursage,
 bursage, ragweed
Ambrosia psilostachya-- Western ragweed
Artemisia carruthii var. *wrightii*-- Wormwood

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Artemisia dracunculus (= *A. dracunculoides*)-- False-tarragon
Artemisia ludoviciana-- Louisiana sagebrush
Artemisia pacifica
Aster coeruleus-- Aster
Aster subulatus var. *ligulatus* (= *A. exilis*)-- Slender aster
Baccharis emoryi-- Emory baccharis
Baccharis pteronioides-- Yerba-de-pasmo
Baccharis salicifolia (= *B. glutinosa*)-- Seepwillow, water-wally, batamote
Baccharis sarothroides-- Broom baccharis, desert-broom
Baileya multiradiata-- Desert-marigold, desert baileya
Bidens frondosa-- Sticktight, beggarticks
Brickellia atractyloides
Brickellia betonicaefolia-- Betonyleaf brickellbush
Brickellia californica-- California brickellia, pachaba

Brickellia floribunda-- Brickellbush
Brickellia scabra-- Sandpaper brickellbush
Cirsium arizonicum-- Arizona thistle
Cirsium neomexicanum-- New Mexico thistle
Conyza canadensis (= *Erigeron canadensis*)-- Horseweed
Dyssodia acerosa-- Dogweed
Dyssodia porophylloides-- San Felipe dyssodia
Encelia virginensis (= *E. frutescens* var. *virginensis*)-- Encelia
Ericameria laricifolia (= *Aplopappus laricifolius*; *Happlopappus laricifolius*)-- Turpentine-bush, larchleaf goldenweed
Erigeron concinnus-- Tidy fleabane
Erigeron divergens-- Spreading fleabane
Erigeron flagellaris-- Running fleabane
Erigeron oreophilus-- Fleabane
Erigeron utahensis var. *tetrapleurus*-- Fleabane
Gaillardia arizonica var. *pringlei*-- Arizona blanketflower
Gaillardia pinnatifida-- Blanketflower
Gnaphalium wrightii-- Wright cudweed
Grindelia aphanactis-- Gumweed
Grindelia squarrosa var. *serrulata*-- Curlycup gumweed
Gutierrezia sarothrae-- Broom snakeweed
Helianthus annuus-- Common sunflower
Helianthus petiolaris ssp. *fallax*-- Narrowleaf sunflower
Heterotheca psammophila (= *H. subaxillaris*)-- Telegraph-plant, camphorweed
Heterotheca villosa (= *Chrysopsis villosa*)-- Hairy golden-aster
Heterotheca villosa var. *foliosa* (= *Chrysopsis foliosa*)-- Golden-aster
Hymenopappus filifolius var. *lugens*

Hymenothrix loomisii
Hymenoxys acaulis var. *arizonica*-- Arizona actinea, perky Sue
Hymenoxys cooperi-- Cooper actinea
Lactuca ludoviciana-- Western lettuce
Lactuca serriola-- Prickly lettuce, wild lettuce
Layia glandulosa-- Tidy-tips
Leucelene ericoides (= *Aster arenosus*)-- White-aster, rose-heath
Machaeranthera aquifolia (= *Aster aquifolius*)
Machaeranthera gracilis (= *Aplopappus gracilis*, *Haplopappus gracilis*)-- Slender goldenbush
Machaeranthera tephrodes (= *Aster tephrodes*)
Malacothrix clevelandi-- Cleveland yellow saucers
Melampodium leucanthum-- Blackfoot-daisy
Microseris linearifolia-- Silver puffs
Packera multilobata (= *Senecio millelobatus*)
Parthenium incanum-- Mariola
Senecio douglasii var. *longilobus* (= *S. longilobus*)-- Threadleaf groundsel
Solidago altissima-- Tall goldenrod
Solidago sparsiflora-- Goldenrod
Solidago wrightii-- Wright goldenrod
Sonchus asper-- Spiny sow-thistle
Stephanomeria tenuifolia-- Wire-lettuce
Tagetes patula-- Marigold
Taraxacum officinale-- Common dandelion
Thelesperma subnudum-- Navajo-tea, greenthread

Townsendia annua
Townsendia incana-- Easter-daisy
Townsendia strigosa
Tragopogon dubius-- Goatsbeard
Verbesina encelioides-- Yellowtop, cowpen-daisy, butter-daisy
Verbesina encelioides var. *exauriculata*-- Crownbeard

Viguiera annua-- Annual goldeneye
Virgulus falcatus (= *Aster commutatus* var. *crassulus*)-- White prairie-daisy
Xanthium strumarium (= *X. saccharatum*)-- Common cocklebur

Cultivated Species at Red Rock State Park

Carya cordiformis-- Bitternut hickory
Gledisia triacanthos-- Honey-locust
Malus pumila-- Apple
Pinus eldarica-- Quetta pine
Prunus amygdalus-- Almond
Prunus domestica-- Plum
Prunus persica-- Peach
Punica granatum-- Pomegranate
Pyracantha sp.-- Firethorn
Pyrus communis-- Pear
Robinia pseudoacacia-- Black locust

TUCSON AUDUBON SOCIETY

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Apply to: Search Committee
Tucson Audubon Society
300 E. University Blvd., #120
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"Craig's Juicy Native Grass Gossip & Research" Internet Newsletter (California)

*Craig C. Dremann, The Reveg Edge, Box 609, Redwood City, CA 94064
415/325-7333 FAX 415/321-8333.*

The question of native plant seed zones and "how local is local" is a problem faced by every ecological restorationist worldwide. A new internet newsletter has been established that discusses native grass ecotypes and their uses. Among the topics discussed are grass ecotypes and their value for determining native plant transfer zones. The current issue of the Juicy Gossip entitled "Native grasses and their revolutionary implications for geneticists, biodiversity, conservation, taxonomy, evolutionary sciences and ecological restoration in California," contains as a bonus, a comprehensive list of world literature on ecotypes and related research, 1880-1996. The Internet address=
<http://www.batnet.com/rwc-seed/juicy.gossip.three.html>

Previous issues of the Juicy Gossip can be found at the same Internet address, substituting "one" or "two" in the place of "three." Issue number four, available in late spring 1997, will discuss intentionally planted weeds ("Blando" brome, crested wheatgrass, fountaingrass, orchard grass, red brome, smooth brome, etc.) Contributions to future issues of the Juicy Gossip are encouraged and welcome.

Conservation Update

by Julia Fonseca

Conservation Tools: Third in a series

Buehman Canyon Saved By Unique Waters Designation

A proposed open pit copper pit in Buehman Canyon appears unlikely now that the Arizona Department of Environmental Quality has increased water quality protection for this perennial stream. Buehman Canyon flows out of the Catalina Mountains to the San Pedro River. This sycamore-lined canyon is home to two species of native fish and lowland leopard frogs as well as other wildlife.

Buehman Canyon is part of the Bellota Ranch, which opposed the Korn Kob mine due to the impacts mining would inevitably have on the ranch. Although the ranch owned Buehman Canyon, the mineral rights underneath the property were owned by a mining company. Water quality protection was sought by the rancher because he felt that the higher standards set under the Unique Waters Program would make the mining operation too costly to construct. The Unique Waters designation was supported by many Tucson area and San Pedro River residents and ultimately approved by the state.

Since then, the mining company has withdrawn its plan and the rancher has donated approximately 1,000 acres of the canyon to The Nature Conservancy.

Invasive Plant Reports

The California Native Plant Society has decided to support release of two insect species to control tamarisk. The U. S. Department of Agriculture has been researching natural controls on tamarisk for several years and has recently obtained permission to release a type of mealy bug at four or five sites under caged conditions to test their effectiveness. Contact Jake Sigg at CNPS for more information.

Free copies of a 43-page BLM plan for controlling noxious weeds in the West are available from Western Weed Team, BLM, Montana State Office, 222 N. 32nd St., P. O. Box 36800, Billings, MT 59107-6800. The document is entitled "Partners against Weeds."

Federal Rare Plant Protection Eased

USFWS has eliminated the Category 2 and 3 candidate species list. This list identified species which merited further investigation to determine whether they should be protected under the Endangered Species Act. Apparently there were too many species on the list.

Coronado National Forest is updating its sensitive species list for the first time in many years. Like USFWS, the Forest Service is under pressure to reduce the number of species that merit monitoring or protection.

City of Tucson Promotes Native Plant Use and Protection

Tucson's Planning Department is proposing an ordinance to promote the in-situ protection of certain native trees, shrubs and cacti. The ordinance would require a native plant preservation and salvage plan for plants such as saguaros, barrel cacti, mesquite, ironwood, desert and canyon hackberry, desert willow, ocotillo, soaptree yucca, white thorn and catclaw acacia, blue and foothill palo verde and others. The ordinance would apply to all new development and expansions of existing development under certain circumstances.

In addition, the city's new landscaping in front of City Hall sets a good example. The new landscaping features native plants such as screwbean mesquite, blue palo verde, fairy duster, tecoma, desert hackberry as well as grasses such as Arizona cottontop and sideoats grama. The area was landscaped with donations by local contractors, including Desert Survivors.

Chapter Information

Flagstaff Chapter

Regular meetings are held on the 4th Tuesday of every month at 7:00 p.m. on the NAU campus in Rm. 313 of the Biological Sciences Building. For more information, contact Chapter President David Hammond at (520) 556-9487.

Phoenix Chapter

Regular meetings are held the 2nd Monday of the month at 7:30 p.m. September through May in Webster Auditorium at the Desert Botanical Garden. For more information, contact Chapter President Kent Newland at (602) 585-3630.

MEETINGS: Jan. 20-- "Old World Succulents" with Cathy Babcock; Feb. 17-- "Pollination Ecology of *Agave palmeri* and *Agave chrysantha*" presented by Liz Slauson of the DBG; Mar. 10-- Jim Brock of SASI will discuss "Butterflies of Southeastern Arizona;" Apr. 14-- "Tres Rios Wetlands" with Roland Wass of the City of Phoenix Water Services Dept; May 12-- "Native and Arid Adapted Vegetables and Crops," Frank Martin, Maricopa County Master Gardener (also Spring Potluck Dinner.)
FIELD TRIPS: Jan. 25-- **Tour of the Desert Botanical Garden** with Wendy Hodgson and Cathy Babcock; Feb. 22-- **Tonto Basin-Roosevelt Dam** with Wendy Hodgson; Apr. 19-- **Tres Rios Wetlands**, led by Roland Wass.

South-Central Chapter: Inactive

Southeast Subchapter

No regular meetings are scheduled for the January-May period. Please contact Chapter President Nancy Stallcup at (520) 378-1169 for more information.

New officers for 1996-1998: President --Nancy Stallcup; Program Chair--Sheridan Stone

Tucson Chapter

Regular meetings are held on the 2nd Wednesday of the month September through May at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson. For more information, please contact Chapter President Barbara Skye at (520) 751-0945.

New officers elected for 1996-1998:

President	Barbara Skye
Vice President	Marcia Tiede
Chapter Treasurer	Karen Sondak
Program Chairperson	Julia Fonseca

Field Trip Chairperson
Web Site Coordinator
Special Projects
Coordinator

Gary Bachman
David Sewell
Marie Lynn Huncken

MEETINGS: Jan 8-- "Native Orchids of Arizona," presented by Ron Coleman; Feb. 12-- Mima Falk, ANPS Copresident and Regional Botanist in the Coronado National Forest, will present "A Regional Botanist's Report;" Mar. 12-- "Arizona's Champion Native Trees," presented by Bob Zahner, coordinator of the Arizona Register of Big Trees; Apr. 9--Peter Gierlach, aka the Reverend Petey Mesquitey, on "How I Got Rich Growing Native Plants;" May 14-- "An Overview of Arid Regions of South America," by David Brunner, Program Director of Friends of the Urban Forest, along with the Annual Spring Potluck which starts at 6 p.m.

FIELD TRIPS: Jan. 11-- **Sabino Springs Revegetation**, led by Lisa Harris, wildlife biologist and president of the Harris Environmental Group; Jan. 25-- **Plants for the Southwest Nursery** with owners Gene Joseph and Jane Evans; Feb. 15-17-- **Cabeza Prieta Wildlife Refuge** with the Huachuca Hiking Club; Mar. 8-9-- Organ Pipe National Monument, to be co-led by ANPS Copresident and NPS botanist Sue Rutman and Caroline Wilson, volunteer coordinator at the Desert Museum; Mar. 16-- **Yard Tours** at ANPS members' homes; Mar. 22-- **Sabino Canyon**, led by Joan Tedford, volunteer naturalist at the canyon; Apr. 5-- Antoinette Segade and Nancy Stallcup will lead a spring flower trip to **Lizard Lane** at the north end of the Dragoon Mts; Apr. 5-- **King's Canyon**, led by Dave Bertleson; Apr. 11-13-- **Galiuro Mts.** with the Huachuca Hiking Club; Apr. 19-- **Canelo Nature Preserve** with Peter Warren or Dave Gori of the Nature Conservancy; Apr. 26-- **Mendoza Canyon** and the BLM Coyote Mts. Wilderness Area, led by Peter Gierlach and Bob Zahner; May 3-- **Las Guias Mts.** in Buenos Aires National Wildlife Refuge, led by Steve McLaughlin of the U of A's Office of Arid Land Studies; May 10-- **Agua Caliente Park**, a nesting site for great horned owls, with naturalist Pinau Merlin; May 16-- **Saguaro National Park East** with Pinau Merlin.

Yuma Chapter

For information on the Yuma Chapter, contact Chapter President Pat Callahan, Rt. 1, Box 28M, Somerton, Az., 85350.

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*Sue Rutman and Mima Falk are serving as interim co-presidents.

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 524 E. 4th St., Tucson 85703 (520) 624-7331
 Sue Rutman
 P.O. Box 26, Ajo 85321 (520) 298-7964
 Antoinette Segade
 6719 E. Cooper, Tucson 85719 (520) 791-7963
 Scott Wilkins
 2232 E. Desert Lane, Phoenix 85040 (602) 232-2386
 Catherine Wertz
 P.O. Box 27, Bisbee 86603 (520) 432-4345

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