

The Plant Press

THE ARIZONA NATIVE PLANT SOCIETY

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New Plant Issues Emerge at Annual Meeting

One evening last January, 14 ANPS board members gathered around a conference table to discuss various themes for this year's annual fall meeting. At the end of the evening the theme chosen was "Arizona's Rivers and Wetlands." Who could have predicted in January that shortly before the annual meeting (held in Sierra Vista on September 21st and 22nd), the plants of Arizona's Rivers and Wetlands would fall subject to a new threat. Not a concrete or tangible threat from development, pilferage, off-highway vehicles, or over-grazing, but rather a threat from the pen and ink of a new federal document.

Federal Register Vol. 56, released August 14, 1991, proposes that more rigorous criteria be used to delineate wetlands in the new Federal Manual for Delineating Wetlands. The new criteria, if adopted, could remove many—perhaps even most—areas in our State from qualifying as wetlands and in so doing would deprive them of certain protections they now receive as wetlands under section 404 of the Clean Water Act. This wetlands criteria issue was introduced as a last minute addition to the annual meeting agenda (See page 10, "The Conservation Page," to learn more).

"Arizona's Rivers and Wetlands'" speaker presentations at the meeting were "Riparian Arizona in the 16th Century," by Dr. Richard Felger; "Riparian Forest Ecology and Conservation," by Dr. Julie Stromberg; "Restoring Riparian Vegetation" by Karen Reichhardt; "Ways to Protect and Restore Rivers," by Eva Patten; and "The San Pedro Riparian Area," by Dave Krueper of the BLM.

Linda Brewer and Scott Wilkins were voted in as new members to the ANPS Board of Directors at the meeting.

Also on the agenda was a tour of historic San Pedro House and a short walk along the San Pedro River followed by a catered supper and "The Seasons of Ramsey Canyon," a music-enhanced video/slide show by Robert and Patricia Day. Hikes to Garden Canyon, Ramsey Canyon, Canelo Hills/Patagonia Preserves, and the San Pedro were options for the following day.

There was an exciting spirit of cooperation between ANPS members and agency representatives at this meeting. Particularly encouraging were the remarks of Jim McGinnis of the newly reorganized Arizona Department of Agriculture. McGinnis described the Department's implementation of the Native Plant Law and delivered the welcome news that the Department has applied for federal funds (under Section 6 of the Endangered Species Act) to improve data collection for native plants in Arizona. In retrospect, this year's annual meeting may come to be seen as the beginning of a new and broader forum for the preservation of Arizona's native flora.

The 1991 annual meeting was masterfully organized by ANPS Board Member Nancy Stallcup. We have her to thank for this educational and uplifting event. Thanks are also due to Nancy and Larry Stallcup for extending personal hospitality to all who attended, and to Bill Feldman and Barbara Tellman for their work on the program agenda. □



Wildflower Brochure Has Arrived! (see page 4.)

Notes from the President

Fall greetings to you all. I hope that you had a good and enjoyable summer. Once more, we have been reminded of what it really means to live in an arid region—generally sparse, highly variable rainfall, variable both in time and in space. Human beings and their institutions are also prone to variation and change over time, as current events in the perhaps soon-to-be-former U.S.S.R. have shown. A little closer to home are recent changes in the structure and management of the Arizona Department of Agriculture (ADA), in particular those changes that bear on the future of the Arizona Native Plant Law. As of January 1, 1991, the ADA officially came into being under the leadership of its first Director, Mr. Keith Kelly.

Our new Agriculture Department includes the Arizona Commission of Agriculture and Horticulture, which has as one of its primary responsibilities the administration of the Arizona Native Plant Law. This far reaching and forward looking legislation was revised extensively during the 1989 legislative session. The drafting of the revision was carried out by a committee of citizens comprised of representatives from government, industry, agriculture, public horticulture, environmental groups (including ANPS President Karen Reichhardt) and interested laypersons. The re-drafting process was arduous, exhaustive and highly political. The resulting Native Plant Law has been both praised as visionary and dammed as unenforceable. I, for one, feel that it is most praiseworthy indeed and that it is both legally enforceable and achievable in terms of its goals.

The key to both of these virtues is the attitude and commitment of the ADA. With the recent formation of a Technical Advisory Board, as mandated by the Native Plant Law, Director Kelly has show by action that he is committed to achieving the intent of the new law. Mr. Kelly has appointed Mr. Jim McGinnis to oversee the implementation of the NPL and related areas of native plant protection. Agriculture and Horticulture Commission staff with longstanding NPL involvement report a new departmental spirit of interest in and sympathy with the intent of the law.

All of this is very promising, but it will still require increased human and financial resources for the proper administration and enforcement of the NPL. At some point in the future the ADA may very well need our help to speak up as citizens for the provision of such resources. In addition, we in the ANPS can help by interpreting, clarifying, and demystifying the intent and provisions of the NPL to the general public. Finally, on the enforcement end, we should be vigilant as regards violations of the law that we may witness or become aware of, and should report such violations to law enforcement or ADA personnel.

Bill Feldman

Heartfelt thanks to Chris Renner for organizing the successful 1991 Chiricahua Mountain Workshop

Editor's Desk

As I write this "Editor's Desk" column, my thoughts are on the 63 people who attended the annual Labor Day ANPS Chiricahua Mountain Workshop. Regrettably, I was not among them.

I was not among those who witnessed the mixed blessing of heavy rain as the activities began on Friday afternoon, and then enjoyed refreshed air and a fragrant forest throughout the rest of the weekend. I wasn't there to marvel at the bounty of this year's mushrooms and late summer wildflowers, nor there to go spelunking through Crystal Cave. Nor was I there to feel the hospitality of the Research Station staff and taste their now legendary "Corpse Reviver" cookies. But of greater concern as editor, I was not there to meet other members, learn about their interests and talents, and encourage their submissions to *The Plant Press*.

One of my editorial goals has been to publish original articles, photos and illustrations—coming largely from within the society—that reflect the knowledge and talent of our members. This goal has been achieved in every issue published, though it has required continuous effort. Thus, when I miss an opportunity like the one at the Chiricahua Workshop, I do regret it.

Those of you who were there can help me regret it less. Capture the enthusiasm you felt for the teaching and learning that took place at the workshop, transfer it onto paper, find an envelope and one of those 29-cent aberrations of the 1 oz. postage stamp, and drop it in the mail!

Another goal of mine has been to build a file of articles and illustrations as a base for future issues. Compiling a balanced and attractive newsletter is a much easier task when there is a selection of material from which to choose. I haven't yet sustained this second goal, though perhaps my successor will.

Yes, I did say "successor." A new full-time job in my work life may soon make it difficult to continue on as editor. I greatly enjoy working on *The Plant Press*, and I'm not resigning just yet; but if someone were to have an interest in taking over the editorship, I'd now welcome that interest. And I'd hope to have compiled a file of articles and illustrations to pass along as start-up material. I'm therefore appealing to all readers to send in those illustrations, photos, articles, and plant lists that will help build a base for the future of *The Plant Press*. Let's have our newsletter reflect all that we are! □

Karen Enyedy Breunig

The Native Landscaper:

Introductions of Little Known and Seldom Grown Species

Blue Yucca: by Greg Starr

Nomenclature: Yucca rigida, Blue Yucca; Family Liliaceae

Description: A tall, trunk-forming species which grows to 5 meters high (16½ ft.). The few branches develop in the upper one-third of the plant. Individual leaves are powder blue with yellow margins; they are rigid with sharp tips and measure up to 1 meter long (3¼ ft.) and 2.5 cm (1 in.) wide. Old leaves dry and remain on the trunk. In summer, compound panicles of white flowers appear above the leaf crown. Woody capsules are 3-7 cm long (1-3 in.) and 1.5-2.5 cm wide (½-1 in.), brown or tan, and dehisce from the apex to the base.

Habitat and Distribution: Occurs on rocky hillsides and bajadas in Chihuahuan Desert scrub and semi-desert grasslands of the Chihuahuan Desert Region. Found at altitudes of about 1,000-1,700 meters (3,300-5,500 ft.) with Larrea divaricata (Creosote), Leucophyllum candidum (Texas Ranger), Cassia sp., Agave striata, Lycium sp. (wolfberry or tomatillo) in the Mexican states of Chihuahua, Durango, Zacatecas and Coahuila. Annual precipitation varies from about 200-300 mm (8-12 in.).

Propagation, Cultural Requirements, and Maintenance: Blue Yucca is easily propagated by seed. One-gallon size plants can be obtained in two years from seed. Plants can be grown in pots in light shade or full sun once they reach one-gallon size. Blue Yucca is cold hardy to at least -12°C (10°F) and possibly lower. In the landscape, plants should be placed in full sun and given periodic, thorough waterings during summer, although plants will survive on 10-12 inches of annual rainfall. Blue Yucca grows well in most soils as long as there is good drainage. Large planting holes and improved soil are not necessary because Blue Yucca is well adapted to soils of the desert southwest. Old leaves are persistent on the trunk and need not be removed. One potential problem is a susceptibility to grubs which damage roots and eat the stem from below the ground.

Landscape Application: Yucca rigida is an excellent accent plant which can be used in the transition and desert zones of a xeriscape. This Yucca is as much at home when planted with the white-leaved Leucophyllum candidum as it is when planted with the rich green color of Larrea divaricata. Fast growth, low care, and increasing availability make Blue Yucca a good candidate for residential and commercial landscapes.

Comments: Blue Yucca is an attractive plant that deserves more attention from landscape professionals as well as homeowners. The powder blue leaves blend well with many other desert landscape plants. When placed in the proper location, plants achieve a striking form. Care should be taken not to plant near high traffic areas because, as the name implies, the leaves are quite rigid. Yucca rigida is closely related to Yucca rostrata which differs in having thinner, shorter, more flexible leaves. Y. rostrata has similar landscape

applications and may become more widely available in the future.

References: Standley, P.C. 1920-26. *Trees and Shrubs of Mexico*. Contributions from the United States National Herbarium. Volume 23, parts 1-5.□

Greg Starr was the ANPS Tucson Chapter president from 1981-83. He has a B.S. and M.S. in Horticulture from the University of Arizona and is the owner of Starr Nursery in Tucson, which specializes in southwestern native plants from desert regions.

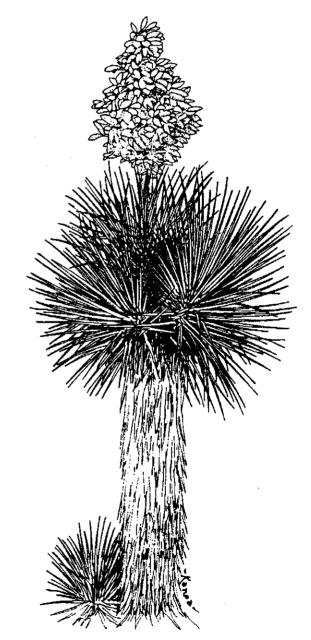


Illustration by Kanoa

ANPS member "Kanoa" (Kim Duffek) is a free-lance illustrator and wildlife artist in Tucson.

December 14

Mushrooms and Truffles of the Southwest, by Jack S. States, Tucson: University of Arizona Press, 1990. (Published with the assistance of the Transition Zone Horticultural Institute, Inc., The Arboretum at Flagstaff.)

Dr. Jack States, Professor of Botany at Northern Arizona University, has broken new ground with the publication of the first book focusing on mushrooms and other fungi of the Southwest. It's geographic area is primarily Arizona and New Mexico, with the southern parts of Colorado, Nevada, and Utah also included. The introductory chapters are well written and concise, offering information for both novices and seasoned fungi aficionados.

The book's format combines the best features of mushroom texts, with their extensive keys, and the best features of popular picture identification books. A basic key directs the reader to the correct mushroom family where picture guides, with excellent color photographs, are arranged in alphabetic order by genus and species. A description accompanies each photo, giving its pertinent species characteristics, information on its habitat, season of fruiting, edibility, and toxicity. A picture key to the major groups of fungi, consisting of excellent line drawings, accompanies the narrative key. One of the nice features of the descriptions is that numerous other texts are referenced for those wishing to delve deeper into the study of mushrooms.

It is unusual in a book of this type to see such extensive coverage of truffles, although this is not a surprise considering that they comprise one of Dr. States's areas of expertise. Slime molds and lichens are also included, in brief chapters, with additional references for those whose interest is piqued.

Here's the really good news—the price is only \$9.95 in paperback (\$19.95 cloth bound), a real bargain for a book printed on quality paper with lots of color photographs! Mushrooms and Truffles of the Southwest received a "trail test" at the ANPS Chiricahua Workshop, where Susan Fleming and Dr. Harry Thiers led the annual mushroom walk.□

Feature editor Susan Husband reviewed this issue's "Pressed Pages" selection in conjunction with Susan Fleming, an amateur mycologist.

Fall Plant Sale Schedule

Arboretum at Flagstaff Herb (and herb crafts) Sale 10:00 a.m.-2:00 p.m. Arizona-Sonora Desert Museum Nov. 2 & 3 Desert Harvest Celebration 9:00 a.m.-4:00 p.m. **Boyce Thompson Southwestern** November 9 & 10 Arboretum Fall Landscaping Festival 8:00 a.m.-5:00 p.m. Desert Botanical Garden Oct. 18, 19 & 20 Member's Preview Sale Oct. 18; 3:00-6:00 p.m. Fall Plant Sale Oct. 19 & 20; 9:00 a.m.-5:00 p.m. Desert Survivors October 12 & 13 **Tucson Botanical Gardens** October 5 & 6 Members Preview October 5; 8:00-10:00 a.m. Public Sale October 5; 10:00 a.m.-4:00 p.m. October 6; 10:00 a.m.-2:00 p.m.

Wildflower Brochure in Print

by Jane Evans

The Urban Landscape Committee has been at it again, preparing "Desert Wildflowers," the fourth in a series of ANPS brochures on landscaping with desert plants. This brochure has been designed to provide helpful information for gardeners of various levels of expertise. For those who are just beginning, it provides planting times and techniques. For those with more experience, it includes a list of wonderful wildflowers with difficult cultural requirements, or in some cases with unknown cultural requirements! Thanks to the hard work of brochure editor Rita Anthony, and all of the committee members, the ambitious target publication date of September, 1991 was met and the brochure is now available — in time for everyone to purchase a copy, locate some wildflower seed, and plant a favorite plot of ground this fall. To purchase the "Desert Wildflowers" brochure send \$2.00 for each copy requested, along with your name and address complete with city, state and zip code to: Arizona Native Plant Society, P.O. Box 41206, Tucson, AZ 85717. Other brochures available, also at \$2.00 each, are "Desert Trees," "Desert Shrubs," and "Desert Groundcovers and Vines." Happy Planting! \Box

PROVISIONAL FLORA OF GARDEN CANYON

Compiled by Nancy Stallcup**

Garden Canyon is on the military reservation of Ft. Huachuca, in the Huachuca Mountain Range of Cochise County, near Sierra Vista, Arizona. To visit Garden Canyon one must first check with Ft. Huachuca Range Control (Phone 602-538-8740) to be sure the canyon is open, as it borders the Post Firing Range and is sometimes closed for military exercises. Three miles of dirt road and 1½ miles of paved road run through Garden Canyon.

Assistance with this list was given by Meg Quinn, Horace Miller, Rebecca Van Devender, Dr. Steven McLaughlin, Janice Bowers, Dr. George Yatskievych, Dr. Don Pinkava and Dr. Corinna Gries.

HERBACEOUS PLANTS		Cosmos parviflorus	Cosmos
AMARANTHACEAE	AMARANTH FAMILY	Dyssodia papposa	False Dog Fennel
Froelichia arizonica	Snake Cotton	Erigeron divergens	Fleabane
Gomphrena nitida		Erigeron flagellaris	
Iresine heterophylla	Blood leaf	Erigeron neomexicanus	
ASCLEPIADACEAE	MILKWEED FAMILY	Erigeron rothrockii	
Asclepias angustifolia		Eupatorium herbaceum	
Asclepias elata		Gaillardia pinnatifida	Gaillardia
Asclepias lemmoni		Galinsoga parviflora	Quick weed
Asclepias nummularia		Gnaphalium chilense	Cud weed
Asclepias quinquedentata		Gnaphalium leucocephalum	
Asclepias subverticillata	Western Whorled milkweed	Gnaphalium pringlei	
Asclepias tuberosa	Butterfly weed	Gnaphalium wrightii	Cud weed
BORAGINACEAE	BORAGE FÁMILY	Gutierrezia sarothrace	
Lithospermum cobrense (?)	Gromwell/Puccoon	Gutierrezia wrightii	
Lithospermum multiflorum	Many flowered Gromwell	Gymnosperma glutinosum (Selloa	glutinosa)
CAMPANULACEAE	BELLFLOWER FAMILY	Helianthus annuus	Sunflower
Lobelia anatina	Mt. Lobelia	Heliopsis parvifolia	Oxeye
Lobelia cardinalis	Cardinal flower	Heterosperma pinnatum	
CAPRIFOLIACEAE	CAPER FAMILY	Heterotheca psammophila	Camphor weed
Lonicera arizonica	Arizona Honeysuckle	Hieracium lemmoni	1
CARYOPHYLLACEAE	PINK FAMILY	Hieracium pringlei	Hawkweed
Arenaria	Sandwort	Lactuca graminifolia	Lettuce
Silene laciniata ssp. greggii	Mexican Campion	Machaeranthera pinnatifida ssp.	
CHENOPODIACEAE	GOOSEFOOT FAMILY	pinnabifida	Spiny Haplopappus
	Goosefoot/Pigweed	Melampodium hispidum/strigosun	
Chenopodium graveolens COMMELINACEAE	SPIDERWORT FAMILY	Melampodium longicorne	
	Dayflower	Pectis filipes	
Commelina erecta & dianthifolia		Perityle coronopifolia	Rock daisy
Tradescantia pinetorium	Spiderwort	Sanvitalia abertii	
COMPOSITAE	SUNFLOWER FAMILY	Schkuhria wislizenii	Threadlea
Artemesia dracunculus	Sage	Senecio douglasii, var. logilobus	Threadleaf groundse
Artemisia ludoviciana	White Sage	Senecio neomexicanus	Till caused groundse
Aster (lemmoni) potosinus	Lemmon Aster	Solidago missouriensis	Goldenroo
Baccharis neglecta		Solidago sparsiflora & wrightii	Goldenro
Baccharis thesioides		Sonchus sp	Sow Thistle
Bahia dissecta	Yellow ragweed	Stephanomeria sp	Wire Lettuce
Berlandiera lyrata	Greeneyes/Chocolate F.	Stevia micrantha	wire Lettuce
Bidens aurea		Stevia micrantria Stevia serrata	
Bidens bipinnata			7 36 1 1
Bidens heterosperma		Tagetes lemmoni	Lemmon Marigolo
Bidens lemmoni (leptocephala?)		Tagetes micrantha Taganacum officinala	Common dandylion
Bidens pilosa		Taraxacum officinale	Conunon dandyllor
Brickellia betonicaefolia		Trixis californica	C P
Brickellia californica		Verbesinia longifolia	Crown Beard
Brickellia chlorolepis (Kuhnia rosma	ırinifolia)	Viguiera annua, dentata	Golden eye
Brickellia floribunda 🔪	•	Xanthium strumarium	Common coklebu
Brickellia grandiflora		Xanthocephalum gymnospermiode	s Broomweed
Carminatia tenuiflora	Plume weed	Xanthocephalum wrightii	
Carphochaete bigelovii	Bristlehead	Zexmenia podocephala	_
Centaurea rothrockii	Mexican Star Thistle	Zinnia grandiflora	Prairie zinnia
Chrysothamnus nauseosus	Mexicanoun mone	Zinnia (mulitflora) peruviana	
var, latisquameus	Rabbit brush	CONVOLVULACEAE	MORNING GLORY FAMILY
Cirsium arizonicum	Arizona Thistle	Convolvulus equitans	Bindweed
Cirsium neomexicanum	NM Thistle	Evolvulus arizonicus	Arizona Blue eyes
Cirsium wheeleri	Wheeler thistle	Ipomoea barbatisepala	·
Conyza sophiaefolia	. There will	Ípomoea coccinea	Scarlet creeper
Congrasophiacjona		Ipomoea costellata	Morning glory

Morning glory

Ipomoea hederacea	Morning glory	Phaseolus heterophyllus/Macro	mtilium oihhosifolium
Ipomoea leptotoma	Hairy Bird's Foot	Phaseolus ritensis	printing 8 cooling and
lpomoea plummerae	,	Psoralea tenuiflora	Scurf pea
Ipomoea tenuiloba var. lemmoni		Rhynchosia texana	Rosary bean
CUCURBITACEAE	GOURD FAMILY	Senna hirsuta var. glaberrima	Slim Pod Senna
Cucurbita foetidissima	Buffalo gourd	(previously cassia leptocarpa)	
CRASSULACEAE	ORPINE FAMILY	Tephrosia thurberi	
Sedum cockerellii	Stonecrop	Trifolium amabile	Clover
CRUCIFERAE	MUSTARD FAMILY	Vicia exigua, leucophaea, pulch	
Descurainia pinnata	Tansy mustard	LILIACEAE	LILY FAMILY
Erysimum asperum	Wallflower	Allium cernuum	Nodding onion
Lepidium sp	Peppergrass	Allium glandulosum (?) (plum	
Pennellia micrantha	0	Anthericum torreyi ¹	Crag/amber lily
Sisymbrium/Thelypodiopsis linearifolium	Pink Windmills	Milla biflora	Mexican star
EUPHORBIACEAE	SPURGE FAMILY	LINAĆEAE	FLAX FAMILY
Acalypha lindheimeri	Three Seeded Mercury	Linum lewisiiLewis	Blue flax
Euphorbia alta, bilobata,	•	Linum neomexicanum	NM flax
chamaesula, dentata, exstipulata		LYTHRACEAE	LOOSESTRIFE FAMILY
Euphorbia heterophylla,		Cuphea wrightii	
hysoppifolia, lurida, plummerae		Lythrum californicum	Purple Loosestrife
Euphorbia revoluta, serpyllifolia, vermicul	ata	LOASACEÁE	STICKLEAF FAMILY
Jatropha macrorhiza		Mentzelia texana/asperula	Blazing star
Tragia nepetaefolia	Stinging Nettle	MALVACEAE	MALLOW FAMILY
GENTIANACEAE	GENTIAN FAMILY	Anoda cristata	
Gentianella detonsa, ssp superba		Sida abutifolia/procumbens, neo	omexicana -
(gentiana grandis)		Sphaeralcea fendleri	Fendler Globe mallow
Gentianella microcalyx		NYCTAGINACEAE	FOUR O'CLOCK FAMILY
GERANIACEAE	GERANIUM FAMILY	Boerhaavia coccinea, purpurasci	
Geranium caespitosum		Mirabilis longiflora	Sweet Four O'clock
Geranium wislizeni	Wild geranium	Oxybaphus comatus (?)	
HYPOXIDACEAE	HYPOXIS FAMILY	ONAGRACEAE `´	EVENING PRIMROSE FAMILY
Hypoxis mexicana	Gold Eye Grass	Calylophus toumeyi	Sundrops
IRIDACEAE	IRIS FAMILY	Epilobium ciliatum	1
Nemastylis tenuis	Cienega Ghost Iris	Gaura gracilis	Gaura
Sisyrinchium demissum v. amethystinum	Blue-eyed Grass	Oenothera hookeri	Hooker's Eve. Primrose
LABIATAE	MINT FAMILY	Oenothera primiveris	
Agastache barberi	Giant Hyssop	Oenothera rosea	Rose sundrop
Hedeoma dentatum	•	ORCHIDACEAE	ORCHID FAMILY
Hedeoma drummondii		Malaxis corymbosa	
Hedeoma hyssopifolium	Mock-pennyroyal	Malaxis soulei	Mt. Malaxis
Monarda austromontana		OROBANCHACEAE	BROOM RAPE FAMILY
Monarda menthaefolia	Beebalm	Orobanche multiflora	Broom Rape
Salvia arizonica		OXALIDACEÁE	WOOD SORREL FAMILY
Salvia lemmoni		Oxalis albicans	Yellow Wood Sorrel
Slavia subincisa		Oxalis decaphylla/grayii	Gray's Sorrel (pink)
Scutellaria drummondi (?)*	Drummonds skullcap	PAPAVERACEAE	POPPY FAMILY
Scutellaria tesselata	•	Argemone sp	Prickle poppy
Stachys coccinea	Texas Betony	PLANTAGINACEAE	PLAINTAIN FAMILY
Trichostema arizonicum	Arizona Blue Curls	Plantago hirtella, major	
LEGUMINOSAE	PEA FAMILY	POLEMONIACEAE	PHLOX FAMILY
Astragalus bigelovii, nothoxys	Locoweed	Ipomopsis macombii (?)	Gilia
Calliandra humilis var. reticulata		Ipomopsis thurberi	Thurber's Gilia
Cologania angustifolia, lemmoni		POLYGALACEAE	MILK WORT FAMILY
Cracca edwardsii		Monnina wrightii	WILLIAM THE TENTE
Crotalaria pumila, sagittalis	Rattlebox	Polygala alba	Milkwort
Dalea albiflora		Polygala obscura	***************************************
Dalea filiformis, grayi, leporina	Pea bush	POLYGONACEAE	BUCKWHEAT FAMILY
Desmodium arizonicum	Tick clover	Erigonum polycladon	Sorrel buckwheat
Desmodium batocaulon, cinerascens, grahan		Eriogonum wrightii	Buckwheat
Galactia wrightii	•	Polygonum lapathifolium	Willow smartweed
Lotus greenei	Lotus/Deer vetch	PORTULACACEAE	PORTULACA FAMILY
Medicago lupulina	Black medick	Talinum paniculatum	Pink baby breath
Melilotus sp (?)	Yellow Sweet clover	PRIMULACEAE	PRIMROSE FAMILY
Mimosa grahamii		Samolus vagans	- AMILOULI AMILI
Petalostemum exile	Prairie clover	RANUNCULACEAE	CROWFOOT FAMILY
Phaseolus acutifolius		Aquilegia chrysantha	Yellow Columbine
-		, 5 5	

Delphinium andesicola, scopulo	rum Larkspur	WOODY SHRUBS	
Thalictrum fendleri	Meadow rue	ANACARDIACEAE	CASHEW FAMILY
ROSACEAE	ROSE FAMILY	Rhus choriophylla	Mearns Sumac
Potentilla thurberi	Crimson Cinquefoil	Rhus glabra	Ivical IIS Surflac
RUBIACEAE	MADDER FAMILY	Rhus radicans	Smooth sumac
Crusea subulata		Rhus trilobata	
Diodia teres	Rough buttonweed	BERBERIDACEAE	Squaw Bush BARBERRY FAMILY
Galium aparine	Common Bed Straw		
Galium wrightii var. rothrockii		Berberis wilcoxii	Barberry/Mahonia
Houstonia wrightii	Houstonia	CORNACEAE	DOGWOOD FAMILY
Mitracarpus breviflorus		Cornus sericea	Red Osier Dogwood
SAXIFRAGACEAE	SAXIFRAGE FAMILY	ERICACEAE	HEATHER FAMILY
Heuchera sanguinea	Coral Bells	Arctostaphylos pungens	Manzanita
SCROPHULARIACEAE	FIGWORT FAMILY	GARRYACEAE	SILK TASSEL FAMILY
Brachystigma wrightii		Garryawrightii	Silk Tassel
Castilleja integra, laxa, tenuiflo:	ra Indian Paintbrush	LEGUMINOSAE	PEA FAMILY
Linaria texana	Toadflax	Amorpha fruticosa, var. occidentalis	Bastard Indigo
Maurandya antirrhiniflora	Little Snapdragon vine	Erythrina flabelliformis	Southwestern Coralbear
Mimulus cardinalis	Red Monkey flower	Mimosa biuncifera	Cat claw Mimosa
Mimulus floribundus	, .	Mimosa dysocarpa	Gatuno/Velvet pod
Mimulus guttatus	Yellow Monkey flower	Robinia neomexicana	NM Locust
Mimulus rubellus	2011011 112011110) 11011111	RHAMNACEAE	BUCKTHORN FAMILY
Penstemon barbatus	S.W. Beardtongue	Ceanothus fendleri	Buckbrush
Penstemon stenophyllus	Penstemon	Rhamnus betulaefolia	Buckthorn
Verbascum virgatum	Moth Mullein	Rhamnus californica	CA Buckthorn
Verbascum thapsus	Common Mullein	ROSACEAE	ROSE FAMILY
Veronica americana	American brookline/Speedwell	Cercocarpus montanus	Mt. Mahogany
SOLANACEAE	NIGHTSHADE FAMILY	Cowania stansburiana ³	Cliff Rose
	Sacred Datura	Prunus serotin ssp. virens	Southwestern Chokecherry
Datura wrightii Nicationa trioonoolulla	Desert Tobacco	RUBIACEAE	MADDER FAMILY
Nicotiana trigonophylla Blancalia Hadanaefolia		Bouvardia glaberrima	Scarlet Bouvardia
Physalis Hederaefolia Solanum douglasii	Ground Cherry	RUTACEAE	RUE FAMILY
	Browled Nichtskade (bases sattle)	Ptelea angustifolia	Hop Tree
	Iverleaf Nightshade (horse nettle)	SALICACEAE	WILLOW FAMILY
Solanum jamesii	Berttele Perm	Salix lasiolepis	Arroyo Willow
Solanum rostratum	Buffalo Bur	SAXIFRAGACEAE	SAXIFRAGĚ FAMILY
UMBELLIFERAE	PARSLEY FAMILY	Fendlera rupicola	False Mock Orange
Eryngium heterophyllum	Mexican Thistle	•	J
Eryngium lemmoni	Button Snakeroot	TREES	
Lilaeopsis schaffneriana, ssp. red		ACERACEAE	MAPLE FAMILY
Pseudocymopterus montanus	Mt. Parsley	Acer grandidentatum	Bigtoothed Maple
VALERIANACEAE	VALERIAN FAMILY	BIGNONIACEAE	BIGNONIA FAMILY
Valeriana sorbifolia	Valerian	Chilopsis linearis	Desert Willow
VERBENACEA	EVERVAIN FAMILY	CUPRESSACEAE	CYPRESS FAMILY
Verbena bipinnatifida²	Sm. flowered Verbena	Cupressus arizonica	Arizona Cypress
Verbena carolina		Juniperus deppeana	Alligator Juniper
Verbena neomexicana	Vervain	ERICACEAE	HEATHER FAMILY
VIOLACEAE	VIOLET FAMILY	Arbutus arizonica	Arizona Madrone
Hybanthus attenuatus	Green violet	FAGACEAE	BEECH FAMILY
Viola nephrophylla	Violet	Quercus arizonica	Arizona White Oak
VITACEAE	GRAPE FAMILY		
Parthenocissus vitacea	Virginia Creeper	Quercus emoryi	Emory Oak
Vitis arizonica	Canyon Grape	Quercus gambelii	Gambel Oak
ZYGOPHYLLACEAE	CALTROP FAMILY	Quercus hypoleucoides	Silverleaf Oak
Kallstroemia parviflora		JUGLANDACEAE	WALNUT FAMILY
		Juglans major	Arizona Walnut
SUCCULENTS		OLEACEAE	OLIVE FAMILY
AGAVACEAEA	GAVE FAMILY	Fraxinus velutina	Velvet Ash
Agave palmeri	Palmer Agave	PINACEAE	PINE FAMILY
Agave parryi, var. huachucensi:		Pseudotsuga menziesii	Douglas Fir
Dasylirion wheeleri	Sotol	Pinus discolor	Border Pinyon Pine
Nolina microcarpa	Bear grass	Pinus engelmanii	Apache Pine
Yucca schottii		Pinus leiophylla var. chihuahana	Chihuahua Pinc
	Hairy Yucca		T) 1 T)
	Hairy Yucca CACTUS FAMILY	Pinus ponderosa var. arizonica	
CACTACEAE	CACTUS FAMILY	PLATANACEAE	PLANE TREE FAMILY
CACTACEAE Echinocereus rigidissimus		PLATANACEAE Platanus wrightii	PLANE TREE FAMILY Arizona Sycamore
CACTACEAE	CACTUS FAMILY Rainbow cactus	PLATANACEAE Platanus wrightii SALICACEAE	Ponderosa Pine PLANE TREE FAMILY Arizona Sycamore WILLOW FAMILY
CACTACEAE Echinocereus rigidissimus Echinocereus triglochidiatus,	CACTUS FAMILY	PLATANACEAE Platanus wrightii	PLANE TREE FAMILY Arizona Sycamore

	•		
GRASSES		Poa fendleriana	Mutton grass
Following is primarily Horace Mi	ller's list from 1986 and	Polypogon interruptus	Ditch polypogon
1987, with recent additions from	others.	Schizachyrium hirtiflorum	• • • •
GRAMINEAE	GRASS FAMILY	Setaria grisebachii	Grisebach Bristlegrass
Aegopogon tenellus		Setaria viridis	Green Bristlegrass
Agropyron/Elymus arizonicum	Arizona Wheat grass	Sorgham halepense	Johnson grass
Agropyron spicatum	Bluebench Wheat grass	Sphenopholis obtusata	Wedge grass
Agrostis alba		Sporobolus wrightii	Sacaton
Agrostis exarata	Spike Bent grass	Stipa pringlei	Pringle Needle grass
Agrostis semiverticillata	Water Bent	CYPERACEAE	SEDGE FAMILY
Agrostis stolonifera	Red Top	Carex alma	
Andropogon gerardi	Big Bluestem	Carex leucodonta	
Aristida adscensionis	Six weeks Three-Awn	Carex ultra	· ·
Aristida arizonica	Arizona Three-Awn	Cyperus fendlerianus	Flat sedge
Aristida orcuttiana	Beggar-Tick Three-Awn	Cyperus havus	
Bothriochloa barbinodis	Cane Beardgrass	Cyperus manimae	
Bouteloua curtipendula	Side-Oats Grama	Cyperus wrightii	Flat sedge
Bouteloua gracilis	Blue Grama	Eleocharis parishii	Spike rush
Bouteloua hirsuta	Hairy Grama		
Bouteloua radicosa	Purple Grama	FERNS AND FERN ALL	
Bromus carinatus Bromus ciliatus	California Brome	Copied from the computerized	
		most located and verified by G	•
Bromus frondosus Bromus inermis	Smooth Brome	EQUISETACEAE	HORSTAIL FAMILY
Bromus marginatus	Mountain Brome	Equisetum hiemale	
Bromus nurginutus Bromus richardsonii	Mountain brome	E. ferrissii	
Cenchrus insertus	Field Sandbur	POLYPODIACEAE	FERN FAMILY
Chloris virgata	Feather Fingergrass	Asplenium exiguum	FERN FAMILI
Dactylis glomerata	Orchard grass	A. monanthes	
Digitaria sanguinalis	Common Crabgrass	A. resiliens	
Echinochloa crusgalli	Barnyard grass	Bommeria hispida	
Elymus canadensis	Canada Wildrye	Cheilanthes eatoni	
Eragrostis chloromelas		C. fendleri	
Eragrostis var. conferta	Boer Lovegrass	C. lendigera	
Eragrostis cilianensis	Stink grass	C. lindheimeri	
Eragrostis curvula	Weeping Lovegrass	C. villosa	
Eragrostis intermedia	Plains Lovegrass	C. wootoni	
Eragrostis lehmanniana	Lehman Lovegrass	C. wrightii	
Eragrostis mexicana	Mexican Lovegrass	Cystopteris fragilis	
Eriochloa acuminata	Cup grass	Dryopteris patula	
Hackelochloa granularis		Notholaena aschenborniana	
Heteropogon melanocarpus	Sweet Tanglehead	N. aurea	
Koeleria pyramidata	June grass	N. cochisensis	
Leptochloa dubia	Green Spangletop	N. grayi	
Lolium multiflorun	Italian Ryegrass	N. integerrima	
Lolium perenne	Perennial Ryegrass	N. limitanea	
Lycurus setosus	Wolftail grass	N. sinuata	
Muhlenbergia emersleyi	Bullgrass	Pellaea atropurpurea	
Muhlenbergia glauca		P. intermedia	
Muhlenbergia goodingii		P. ternifolia	
Muhlenbergia longiligula	Long-tongue Muhly	P. wrightiana	
Muhlenbergia minutissima	36 36.13	Phanerophlebia auriculata	
Muhlenbergia montana	Mountain Muhly	Pityrogramma triangularis	
Muhlenbergia monticola	Mesa Muhly	Polypodium thyssanolepsis Woodsia mexicana	
Muhlenbergia pauciflora Muhlenbergia polycaulic	New Mexican Muhly	W. plummerae	
Muhlenbergia polycaulis Muhlenbergia ricens	Cliff Muhly	SELAGINELLACEAE	CELACINELLA PARALLY
Muhlenbergia rigens Muhlenbergia rigida	Deer grass	Selaginella underwoddii	SELAGINELLA FAMILY
Panicum bulbosum	Purple Muhly Bulb Panicum	var. dolichotricha	
Panicum capillare			
Panicum cupitture Panicum hirticaule	Witch grass	*If verified, would be new recor	d for state or region (per Dr.
Panicum ohtusum		D. Pinkava)	O (L

D. Pinkava)

Pinyon Ricegrass

Panicum obtusum Piptochaetium fimbriatum

¹Echeandia flavescens ²Glandularia bipinnatifida ³Purshia stansburiana

Our Unique Arizona Flora: Arizona Leather Flower

by Joyce Maschinsky



Photo by Toyce Maschinski

Arizona leatherflower (Clematis hirsutissima var. arizonica: family Ranunculaceae) is an herbaceous perennial with pinnately compound leaves, fine leaflets, and solitary purple bell-shaped flowers that nod at the ends of stalks. At maturity, the golden-awned seeds ripen into a plumed ball similar to Apache plume. Unlike ornamental Clematis species that have vining habits, C. hirsutissima var. arizonica has a multi-stalked rhizomatous shrubby growth form. Large plants may reach 0.5 meters (20 in.) in height.

Although once given specific status by Heller as *C. arizonica*, it was renamed by Erickson (1943) and has since remained as a variety of the more widespread *C. hirsutissima*. It is distinguished from the typical variety primarily by a wider, approximately 90° angle at which the mature petioles depart from the stem; the relatively narrower leaflets; and smaller flowers (Kearney and Peebles 1960).

The variety is known from the high elevations of northern Arizona and New Mexico 7,000-8,500 ft. (2,134-2,593 meters). In the Coconino National Forest near Flagstaff and the Kaibab National Forest near Tusayan, Arizona leatherflower prefers to grow on north-facing slopes of limestone outcroppings in Ponderosa pine habitats. Kearney and Peebles report that the plant is found on the south rim of Grand Canyon, but recent confirmations of these populations have not been made. Because the populations reported from New Mexico are growing in oak forests—a completely different habitat—some experts feel their varietal identification as arizonica must be re-examined.

Arizona leatherflower is a candidate for federal protection under the Endangered Species Act and is considered to be "sensitive" by the US Forest Service. Because many of the populations are growing in proposed or existing timber sale areas, the Forest Service is concerned that logging could threaten the taxon. As a first measure to protect Arizona leatherflower, the Forest Service has created 100-foot buffer zones around known populations growing in timber sale areas. In addition to timber harvesting, recreational activities and land development also threaten this variety.

To learn more about the distribution and basic biology of Arizona leatherflower, the Coconino National Forest has been actively surveying for the taxon and has underwritten contracts to study its biology. Many factors about the taxon's biology are unknown. For example, early surveys and studies indicated that plants had greater sexual reproductive success in shaded habitats. In 1989, plants growing under Ponderosa pine canopies set 18% more fruit and had larger, heavier seeds with greater viability than did seeds produced by plants growing in sunny habitats. This is good circumstantial evidence that plants require shade for healthy reproduction; however, experiments demonstrating this fact have not yet been done. Further, we know little about seedling germination and establishment in shaded vs. unshaded habitats. Basic demographic information, including the age of reproducing plants, the extent of clonal reproduction, and the major mortality factors of the species are unknown. The Arboretum at Flagstaff began studies to address these questions this past summer, with financial support from the Coconino National Forest.

Public input about Arizona leatherflower can help federal agencies make decisions about its status. Because most of the Forest Service's information about populations is from federal lands, little is known about this variety's distribution on private and state lands. Interested members of the Arizona Native Plant Society can help conduct surveys for the plant. Exact locations on federal, state, or private land, numbers of plants sighted, and the habitat where plants are growing should be reported to Dr. Barbara Phillips at (602) 527-7434, Sue Rutman at (602) 379-4720, or Bruce Palmer at (602) 942-3000.□

Joyce Maschinsky has a Ph.D. in Botany from N.A.U., is Curator of Plants at the Arboretum at Flagstaff, and is active in the ANPS Flagstaff Chapter.

"...The breath of flowers is far sweeter in the air...than in the hand."

Francis Bacon

LEGISLATIVE ISSUES

Federal Legislative Issues

Proposed New Definition of Wetlands

On August 14th, the Federal Register Vol.56 published a proposed revision of the Federal Manual for Delineating Wetlands. By changing the criteria for delineating wetlands, this revision could, if enacted, greatly decrease areas in Arizona which are considered wetlands by the federal government and as such have received protection under section 404 of the Clean Water Act. The previous (1989) manual defined wetlands by the three criteria listed below.

<u>Hydrology:</u> 7 days of inundation or saturation within the top 18 inches of soil during the local growing season. Soils: based on definition of the National Technical Committee for hydric soils. Vegetation: more than 50% of the species had to be facultative or obligate wetland species. Major changes in the 1991 revision occur in the hydrology criteria. It will now be required for the surface to be inundated for at least 15 days or saturated for more than 21 days during an also newly defined and shortened growing season. Vegetation will have to be described by a prevalence index which requires a greater botanical expertise. Another major point of criticism (from desert regions) is the fact that riparian areas were not considered wetlands in the 1989 manual, nor in the proposed revision. Overall the 1991 criteria are much harder to meet and the manual itself is extremely complicated to read and evaluate. Call the EPA HOTLINE 1-800-832-7828 to request more information. Send letters of concern to Gregory Peck, Chief, Wetlands and Aquatic Resources Regulatory Branch, Mail Code (A-104F), USEPA, 401 M Street S.W., Washington, D.C. 20460 and to your congressmen. (Public comment period runs through October 12.)

The National Wild & Scenic Rivers Program

Your information about special plant values along waterways in Arizona could help obtain Wild and Scenic designation for certain Arizona rivers or streams. Designation protects free flowing streams or stream segments having "outstanding scenic, recreational, geologic, historic, archeologic, fish and wildlife, or other" (i.e.plant!) values from further development and/or from abuse or mismanagement. Designation helps maintain a river in its present condition and calls for its future management according to either "wild," "scenic," or "recreational" guidelines. New water projects or mining claims may be restricted, but previously established claims, water rights and property rights remain intact. Farms, homes and cabins along the river continue to be used just as they were before.

In Arizona, a 39.5 mile segment of the Verde River was designated as Wild & Scenic in 1984, and the Black River has been recommended for designation. Many other Arizona rivers might also benefit from such protective legislation. The Arizona Rivers Coalition has put together a book listing and describing rivers eligible for designation. A copy of Arizona Rivers: Life Blood of the Desert is available for \$15 from Arizona Rivers Coalition, 3601 N. 7th Ave., Phoenix, AZ 85013.

If you find your favorite river listed in there, call or write your U. S. representative and senators about it, asking for public hearings or field meetings and for their support for its Wild and Scenic designation. Remember, information you may have about special plant values along the stream will help support designation!

State Legislative Issues

First Heritage Fund Alliance Conference

The Heritage Fund Alliance, of which the ANPS is a member, will hold a conference on November 2nd. The meeting agenda, with State Parks and Game and Fish, will include a status report on allocation of funds and preparation plans for the fall State

legislative session. Mark the 2nd of November in your calendar and call The Nature Conservancy at 220-0490 (Phx.) or 622-3861 (Tsn.) for information about the location.

OTHER

Adopt-a-Plant-Species Program Report

by Barbara Tellman

(Julia Fonseca is on a nine month sabbatical. Until her return contact Barbara Tellman (address pg 12) about the Adopt-a-Plant-Species Program.)

Coconino National Forest invites ANPS to provide input on development of a habitat management plan for Clematis hirsutissima var. arizonica (see article on pg. 9). This plant has no adopter at this time. If you would like to help, contact Dave Bertelsen at 325-0741 or write Dr. Barbara Phillips, Coconino National Forest, 2323 E. Greenlaw Lane, Flagstaff, AZ 86004.

U.S. Fish and Wildlife Service is preparing to propose listing Coryphantha sheeri var. robustispina as endangered without critical habitat. Scot Mills has been working closely with USFWS on gathering data with respect to the listing. If you can provide any specific information (threats that might affect it or additional status or distribution info.) please contact Sue Rutman USFWS, 3616 W. Thomas, Suite 6, Phoenix, AZ 85019.

David Mount is putting together a proposal for "rapid genome analysis" of Rumex orthoneurus, a dock found in wetlands of the Chiricahua and Pinaleño Ranges. Uncertainties in the taxonomy of the plant have been the principle deterrent to listing it as threatened or endangered. Genetic mapping, in conjunction with other sources of information, can clarify the taxonomic issues. Mount has also reviewed and commented upon the Coronado National Forest's management plan for the plant, saying that the plan is good, but lacking a timetable and budget.

Jim Malusa of The Nature Conservancy led a field trip to look for **Dalea tentaculoides** in its only known place of occurrence, Sycamore Canyon. Field trip participants identified many new plants and verified the absence or presence of existing populations along the stream.

Julia Fonseca has reviewed allotment management plans for grazing leases which contain Salix arizonica. The Forest Service has not yet addressed her questions concerning their preferred alternative, an intensive grazing management scheme. Fish and Wildlife Service has proposed a different alternative from the Forest Service. FWS has stated its intent to propose listing the species as endangered with critical habitat.

Mark Egger wrote the Forest Service on behalf of Castilleja mogollonica, a paintbrush endemic to the same White Mountains wetlands as Salix arizonica. Egger took issue with the Forest Service's generalization that Castilleja tends to increase under grazing. Egger also intends to look for C. cruenta, a paintbrush of the Chiricahua Mountains that Fish and Wildlife Service indicates is extinct. He also wants to know a common site for C. laxa which is fairly widespread.

New Conservation Committee Plant List Program

Plant lists, useful when we comment or take action on such items as mining in the Portal area, are needed from all parts of the State. Renee Rondeau's knowledge of the Tucson Mountains, for example, was instrumental in getting Rep. Kolbe's support for expanding Saguaro Nat. Mnmt. We are now cooperating on a Sky Island Cons. Area proposal for the Coronado Forest and need specific plant information for these areas. Send species lists you may have for the Conservation Committee's new plant list files to Barbara Tellman (127 E. Mabel, Tucson 85705; 792-4515).

Chapter and Committee News

FLAGSTAFF CHAPTER:

Chapter meetings are held the third Tuesday of each month at 7:00 p.m. on the N.A.U. campus in Rm. 313 of the Biological Sciences Building. News Items: Summer, always pleasant in Flagstaff, saw a round of well attended field trips and programs. Among the highlights were programs on threatened and endangered plants, herbarium specimen preparation, and grass taxonomy; and field trips to the Lockett Trust land, W. Fork of Oak Creek, Humphrey's Saddle, Walnut Canyon, Lockett Meadow/Inner Basin, Kelley and James Canyons, and Kendrick Peak. October Events: Oct. 5th—field trip to Red Mountain led by Marc Leitermann. Oct. 15th-Chapter Meeting features a presentation on the taxonomy of the Asteraceae by Randy Scott. October 19th—field trip to O'Leary Peak. For information on the Flagstaff Chapter contact Bob Wilson at 774-1441 (days) or write to him at P.O. Box 670, Flagstaff, AZ 86002.

PHOENIX CHAPTER:

Regular meetings are held September through May on the second Monday of each month at 7:30 in Webster Auditorium at the Desert Botanical Garden. News Items: The Memorial Day Weekend Extravaganza was especially well attended and both restorative and informative. Fall activities in the Phoenix Chapter opened Sept. 9th with a potluck/meeting and a lecture by Bob Johnson on the "Ecology of Ants." October Events: Oct. 14—Meeting includes a wildflower program by Rita Jo Anthony and a wildflower seed release/exchange (members bring seeds and seed reports if they have them). Oct. 26—Field trip to Mountain States Nursery. To help with an ANPS booth at the Tamarisk Park Cave Creek/Carefree annual Earth Rally III on Oct. 26 & 27th call Karen Breunig at 274-9737. November Events: Nov. 11—Dr. Laura Jackson lectures on "Revegetation of Abandoned Desert Farmland." The Phoenix Chapter will participate in a "Gardens for Desert Living" show to be held three weekends in November at various malls (November 2/3; 9/10; and 16/17—Call Kent Newland to help with these events!). December Events: Meeting on Dec. 9th is a Holiday Potluck and Plant Exchange with "New Plants for Desert Gardens" lecture by Mark Dimmitt. January Events: January 13th meeting program by Kevin Dahl on Tarahumara/Sierra Madre Forestry For information on the Phoenix Chapter Developments. contact Chapter President Kent Newland at 8376 Cave Creek Stage, Cave Creek, AZ 85331; (602) 261-8369(W) or 585-3630(H).

PRESCOTT CHAPTER:

For information on activities in the Prescott area contact Patrick Boles at 372 Dogwood Lane, Prescott, AZ 86301; (602) 778-1128.

SOUTH CENTRAL CHAPTER:

Meetings are held on the first Saturday of each month at 9:30 a.m. in the Community Room of the Student Activities Center on the Signal Peak campus of Central Arizona College (CAC) in Casa Grande. For information about the South Central Chapter and its events contact Chapter President Velma Adams at 450 Sun West Dr., No. 30, Casa Grande, AZ 85222; (602) 426-9172.

TUCSON CHAPTER:

Regular Meetings are held on the second Wednesday of the month at 7:30 p.m. at the Tucson Botanical Gardens, 2150 N. Alvernon Way, Tucson, AZ unless otherwise noted. News Items: A full round of activities over the summer wrapped up with the Chiricahua Workshop, organized this year by Chris

Renner of the Tucson Chapter. Sept. 7 & 8 the chapter also participated, at the request of the U.S.Forest Service, in a plant survey of the natural burn that occurred two years ago on Centella Point in the Chiricahua Mts. Larry Stallcup and Morris Fishbein led the survey trip. The information gathered will help the Forest Service design and implement its Wilderness Management Plan for the area. Peter Warren spoke on "Sensitive Plants of the Coronado National Forest" at the fall potluck meeting held on Sept. 11.

October Events: Dr. Jon R. Weeks of the U. of A.'s Environmental Research Lab speaks on "Farming Halophytes" at the chapter meeting on October 9th. October Field Trips: Oct. 6th— Turkey Creek, Aravaipa Canyon led by John Luepke; Oct. 12th-Arroyo Chico, urban Tucson led by Richard Barber; Oct. 19th—Kings Canyon, Tucson Mts. led by David Bertelsen; also Oct. 19th—Oak Creek and Aravaipa Canyons led by John Luepke and Oct. 26th—Ragged Top Mt. led by John Wiens. November Events: Nov. 13th Chapter Meeting features Dr. Tony Burgess speaking on "70 Years of Research at the Desert Laboratory." November Field Trips: Nov. 9th—Saguaro National Monument Expansion Area led by Mark Rami; Nov. 17th—Greenhouse tour of Plants for the Southwest, Tucson, led by Gene Joseph. <u>December Events:</u> Dec. 11th Chapter Meeting presents Dr. Christine Conte speaking on "Recent Activities of the Arizona Chapter of the Nature Conservancy." For information on the Tucson Chapter contact Peter Gierlach at 3505 W. Overton, Tucson, 85741 (602) 744-0434

YUMA CHAPTER:

Regular Meetings are held on the third Monday of each month at 7:30 p.m. at the Univ. of Az. Agricultural Station in Yuma Valley on 8th St. For information on Yuma Chapter activities contact Chapter President Pat Callahan, Rt. I, Box 28M, Somerton, AZ 85350 (602) 627-2773.

CONSERVATION COMMITTEE:

The Conservation Committee will next meet on October 23, at 6:00 p.m. at the Flying J Truck Stop in Eloy. All are welcome to attend. Contact Chairman Barbara Tellman (phone 602-792-4515 at 127 E. Mabel, Tucson, 85705) if you have an interest in this committee. (Also see page 10 of this issue.)

URBAN LANDSCAPE COMMITTEE:

Contact Jane Evans, 2945 N. Fontana, Tucson, AZ 85705; 628-8773(D) 792-1592(E) for information on committee activities.

ELECT LUCRETIA BREAZEALE HAMILTON, Plant Illustrator and a Founding Member of ANPS, to the ARIZONA WOMEN'S HALL OF FAME! Lucretia Breazeale Hamilton, the preeminent Arizona plant illustrator who contributed uniquely and unforgettably to Arizona's natural and artistic heritage, has been nominated to the Arizona Women's Hall of Fame. Please write your state representatives and senators in support of Lucretia's election between now and February, 1992. Questions? Contact Mona L. McCroskey, P.O. Box 4257, Prescott, AZ 85302 (602-766-4689).

CONGRATULATIONS TO STEVEN PRCHAL! The Roger Tory Peterson Institute has named ANPS member Steven Prchal a winner of its \$1,000. "Educator of the Year" award for his community-based nature education program as executive director of Sonoran Arthropod Studies, Inc.

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2122 N. Marion, Tucson 85712		Native Plant Society to the Secretary at our office	
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