



NEWSLETTER

of the

NATIVE PLANT SOCIETY OF NEW MEXICO

JANUARY, FEBRUARY, MARCH 2012

VOL. XXXVII No. 1



Top left, Pecos sunflower (*Helianthus paradoxus*);
below left, Wright's marsh thistle (*Cirsium wrightii*).
Both are threatened/endangered and occur in
Blue Hole Cienega Nature Preserve, pictured below right.
Read about NPSNM restoration work there, page 8.
Flower photos by Bob Sivinski, landscape photo by Phil Tonne



This is the final hard-copy newsletter you will receive! (see page 2 for information)

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From the President

by Tom Antonio

On behalf of the NPSNM I would like to extend my best wishes for a very happy New Year. We have again sent out an annual appeal letter asking you to contribute to the Jack and Martha Carter Conservation Fund. You should have received that letter and hopefully will consider sending a generous tax-deductible donation. Your contributions support our grants program and each year the Society provides over \$7,000 to a variety of institutions and individuals working toward the goals of the Society.

This printed copy of the newsletter will be the last one many of you will receive. The NPSNM Board has decided that future issues of the newsletter will be sent out electronically. Those members without email will still receive a printed copy, but otherwise you will receive the newsletter by email. If, however, you would like to continue to receive printed copies you may request this from our Administrative Coordinator, Cindy Roper, at nativeplantsnm@gmail.com or 505/466-3536. We gave this decision much thought and believe it will greatly reduce printing costs, save paper, and allow us to use funds in more productive ways. We ask for your understanding and patience as we make this transition.

We will soon begin selling books again through our website. The new Book Sales Chair, Rachel Jankowitz, will be available at npsnmbooks@gmail.com and is rebuilding



the book program. Please welcome Rachael and lend her support for this valuable and needed resource.

A reminder: We will hold the annual winter board meeting of the NPSNM at the UNM Sevilleta Field Station, February 11–12, 2012. The station is 60 miles south of Albuquerque and is a spectacular setting. This is really our best chance for all local chapter presidents, chapter representatives, committee chairpersons, and all members of the Native Plant Society to come together to discuss and plan for the upcoming year. Please contact Cindy to reserve a space in the Sevilleta cabins (nativeplantsnm@gmail.com). I urge you all to attend as we all work to make the NPSNM a stronger voice for New Mexico's native plants.

In closing, I need to ask your help in finding two individuals to fill upcoming vacancies for vice-president and treasurer on the board. These are critical positions and we are hoping that two members will volunteer for these positions. All of us work very hard to keep the Society strong and we really need your help. If you are interested or know of someone who might be interested in either of these positions, please call me at 505/690-5105 and I will be happy to answer any questions. There are so many wonderfully dedicated individuals in the Native Plant Society of New Mexico, please consider this volunteer opportunity. ❖

NPSNM News Items

by Cindy Roper

Books Are Back

NPSNM is very happy to announce that we have a new Book Sales Chair: Rachel Jankowitz. Rachel will be available at npsnmbooks@gmail.com and is rebuilding the book program. Welcome, Rachel!

Switching to PayPal

In our last newsletter we informed you that the Society would be switching to a PayPal for NonProfits account. Unfortunately this is taking longer than anticipated. We are still working on it, and fully expect to be able to give the “two-thumbs-up” by our next newsletter.

“Like” Us on Facebook

Are you a Facebooker? So is the NPSNM! If you haven't already found us, search for us by “page” Native Plant Society New Mexico. We will do our best to share the most current info with you there. ❖

Newsletter Going Out of Print! (Did That Get Your Attention?)

The next NPSNM newsletter will be coming via your email inbox!

In our Society's attempt to reduce waste and utilize funding in more productive ways, we will begin emailing you a link to our quarterly newsletters. If we have an email address for you, and you have *not* requested the “snail-mail” version, you will be getting your newsletter via email from now on. If you *do not* have email, or if you've already otherwise requested, you will still receive a hard-copy version of the newsletter, and no further action needs to be taken on your part.

In order to ensure that you receive our email notification, please add our email address (nativeplantsnm@gmail.com) to your email program's “Safe List.”

Please direct any questions to our Administrative Coordinator, Cindy Roper, at nativeplantsnm@gmail.com or 505/466-3536. ❖

Thank You to NPSNM from State Herbarium Grantees

From New Mexico State University Herbarium

Dear Dr. Antonio and Members of the NPSNM,

Thank you very much for your generous \$500 donation for 2011 to the Department of Biology Herbarium at New Mexico State. I received the check a few days ago and forwarded it on to our foundation to be deposited in the "current use" account. Donations such as this really help keep botany on the minds of our university administrators and ultimately keep the herbarium functioning day to day.

The donation last year was also deposited into the "current use account." Our primary expenditures last year focused on clearing a massive backlog of new specimens. This involves mounting the specimens, uploading collection information into our database, and finally filing them away in the collection for use by any and all interested parties. We used funds in the current use account to hire three undergraduate employees—all interested in land management and botany broadly. These students were Elena Tsiantis (now a graduate of NMSU), Scoti Bartlett (still working in the herbarium), and Matthew Colburn (a continuing student with NMSU). As a group these students accessioned over 2000 specimens in the spring semester—using both the funds provided by the NPSNM and other funds available to the herbarium. Your donation was greatly appreciated by the herbarium and by the students employed through your donation—many thanks!

If there is ever anything I can do in return for the Native Plant Society, please don't hesitate to ask.

Best wishes,

Donovan Bailey

Curator, Dept. of Biology Herbarium

From San Juan College Herbarium

Hi Thomas and NPSNM Members,

Thanks again for the \$500 check payable to San Juan College and the San Juan College Herbarium. As you probably know, the San Juan College collection can now be accessed on "SEINet." We are quite proud of that fact. Last year the grant funds were 100% used for paper, genus folders, species folders, glue, and mounting paper. With the large number of collected specimens and the herbarium funding not being increased, the NPSNM grant has been a godsend. Without it, many specimens would not have been mounted and filed into our rapidly growing collection. We greatly appreciate all that the NPSNM has done for the New Mexico Flora Project and the San Juan College Herbarium.

Yours truly,

Kenneth D. Heil

From Western New Mexico University Herbarium

The Dale A. Zimmerman Herbarium at WNMU was established in 1957 by . . . you guessed it, WNMU Emeritus Professor Dale A. Zimmerman. By the time he retired in the late 1980s, the herbarium cabinets contained over 10,000 plant specimens collected from throughout southwestern New Mexico and adjacent states by Dr. Z, his wife Marian Zimmerman, and his students. Collections of plants from the Pinos Altos Mountains (Gila National Forest) by the Zimmermans (including son Allan Zimmerman) during the 1990s and early 2000s, and plant collections from this same geographic region by another retired botanist of note, Jack L. Carter, his wife Martha Carter, and his associates (including Deming Gustafson, Chuck Huff, Vandy Johnson, Sheila Richmond, Donna Stevens, Debra Swetnam, Diego Villalba, Kathy Whiteman, Owen Williams) during this same time period added several thousand more specimens to the herbarium collection. Since the mid-2000s, floristic studies of the Lake Roberts flora (Kelly Kindscher), the flora of the Gila River in New Mexico (Kelly Kindscher, former WNMU student Sarah Kline, and myself), the Burro Mountains flora (Russ Kleinman and myself), the City of Rocks State Park flora (recent WNMU student Javier Kirker and myself), and mosses of the Gila region (Russ Kleinman) have resulted in submissions of several thousand more specimens to the herbarium. And select student plant collections submitted each fall by WNMU plant taxonomy students since 2001 have also added significantly to the herbarium collection.

All of the above-mentioned plant specimens must be carefully processed prior to their official filing into a herbarium folder. First, each specimen is mounted on 100% rag mounting paper (\$0.48/sheet) using buffered, archival glue (\$72/gallon) purchased from a herbarium supply company. Then each mounted specimen is stamped with a unique accession number; the last plant specimen stamped to date has been assigned accession number 18,017 (= total number of specimens that have officially entered the collection). At this point, herbarium label data from each specimen are carefully entered into a computer database that is accessible to anyone (<http://swbiodiversity.org/seinet/index.php>). At last, these specimens are filed into appropriate folders arranged by major plant group (lycophytes, ferns and fern allies, gymnosperms, magnoliids, monocots, eudicots) and then filed alphabetically by family and genus. Occasionally, experts in the taxonomy of particular plant groups or regions reexamine these filed plant specimens to verify (or correct) the plant name assigned to a particular mounted plant. These experts

Continued page 5

The Newsletter of the NPSNM

January–March 2012. Vol. 37 No. 1. This newsletter is published quarterly by the Native Plant Society of New Mexico (PO Box 35388, Albuquerque, NM 87176) and is free to members. The NPSNM, a nonprofit organization, is composed of professional and amateur botanists and others with an interest in the flora of New Mexico.

Original articles from the newsletter may be reprinted if attributed to the author and to this newsletter.

Views expressed are the opinions of the individual authors and not necessarily those of NPSNM.

Next deadline is February 20, 2012. Articles and high-resolution artwork supporting the NPSNM's mission are welcomed and can be sent to the editor, Sarah Johnson, at sarita@gilanet.com, or PO Box 53, Gila, NM 88038.

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Chapter Presidents

Albuquerque George Miller gomiller@travelsdujour.com 505/352-9019
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Gila Russ Kleinman sparks@zianet.com 575/574-8454
Las Cruces Carolyn Gressitt canton49@hotmail.com 575/523-8413
Otero Helgi Osterreich hkasak@netmdc.com 575/585-3315
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 Donna Thatcher dthatcher@fmtn.org 505/325-5811
Santa Fe Tom Antonio tom@thomasantonio.org 505/690-5105
Taos Nora Patterson ee patt@gmail.com 575/776-2833

Committee Chairs

Book Sales Rachel Jankowitz npsnmbooks@gmail.com
Conservation Jim McGrath sedges@swcp.com 505/286-8745
Finance & Investment Jack Carter jmcarter01@hughes.net 575/388-9221
NMDOT Curt Frischkorn Curt.Frischkorn@state.nm.us 505/827-1874
Newsletter Editor Sarah Johnson sarita@gilanet.com
Poster Sales Gary Runyan gary.runyan@state.nm.us 505/205-9953
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NPSNM Mission The Native Plant Society of New Mexico is a non-profit organization that strives to educate the public about native plants by promoting knowledge of plant identification, ecology, and uses; fostering preservation of natural habitats; supporting botanical research; and encouraging the appropriate use of native plants to conserve water, land, and wildlife.

Thank-You Letters (continued from p. 3)

include Patrick Alexander (mustards), Kelly Allred (grasses and New Mexico flora), Richard Felger (woody plants and southwestern flora), Russ Kleinman (mosses, ferns, and fern allies), Gene Jercinovic (euphorbs), Bob Sivinski (New Mexico flora) and myself (sedges). As necessary, the computer database is updated to reflect any plant name corrections or nomenclatural updates indicated on herbarium sheets by the above people.

I hope the amount of work necessary to prepare a plant specimen for entry into the herbarium collection is apparent. For many years after I joined the WNMU Natural Sciences Department in 2001, I was assigned a work-study student to work on the above tasks (i.e., mounting, stamping, data entry, filing) which resulted in many thousands of specimens being processed for entry into the collection. However, given recent lean economic times, the department's allocation of work-study students has been reduced, and we have not had student help in the herbarium since spring of 2008. Consequently, mounted plant specimens that await final processing completely fill an entire herbarium cabinet, and many more unmounted plant specimens fill cardboard boxes that are stored on top of at least ten herbarium cabinets.

This is where crucial financial assistance from the Native Plant Society of New Mexico comes into play. The Dale A. Zimmerman Herbarium annually receives a generous \$500 grant from the state organization (NPSNM), which I have recently used to hire a WNMU botany graduate, John Dunne-Brady, to process plant specimens associated with study of the Lake Roberts flora. Furthermore, the Gila chap-



Angela Flanders at work in herbarium

ter of this organization (GNPS) in December 2010 awarded the herbarium \$2,300, which allowed me to hire Angela Flanders (former president of GNPS) to mount plants and enter label data into the herbarium database from hundreds of other specimens. Thus, there has been a flurry of recent activity in the Dale A. Zimmerman Herbarium this year, made possible by the above generous grants awarded from the Native Plant Society of New Mexico.

So at this time I would like to say *muchas gracias* to NPSNM and GNPS for this crucial financial help!

William R. Norris
Professor of Ecology and Evolutionary Biology
Curator, Dale A. Zimmerman Herbarium ❖

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Chapter Activities & Events

For further information on the following events, notify the contact person listed, or visit the chapter's Web page: first go to <http://npsnm.unm.edu>; click on Local Chapters;

Albuquerque

All scheduled monthly meetings are first Wednesday of the month at 7 p.m. in the NM Museum of Natural History, 1801 Mountain Rd. NW. For more info on programs contact Jim McGrath, sedges@swcp.com, 505/286-8745.

Jan 4 Meeting. Desert Plants: How They Survive. Carolyn Dodson, author and past chapter president, discusses survival strategies for Chihuahuan Desert plants.

Feb 1 Meeting. Reliability of Flowering Times in Harsh Climates. Karen Wetherill, UNM PhD student and former Sevilleta LTER research scientist, answers questions about plant species' flowering schedules and the implications for pollinators, while comparing flower communities in two deserts and two mountains in New Mexico, Arizona, and Colorado.

Mar 7 Meeting. Speaker TBA.

El Paso

All programs are second Thursdays at 7 p.m. (coffee social at 6:30) at El Paso Garden Center, 3105 Grant Ave. unless otherwise noted. All events free unless otherwise noted. Non-members always welcome. Info: Jim Hastings, 915/240-7414.

Jan 12 Meeting. Native Foods Demonstration and Tasting. Jim Hastings, the Gringo Gourmet.

Feb 9 Meeting. Fall Color and Review of Plants of the Guadalupe Mountains. Cheryl Garing, horticulturist and chapter president.

Mar 8 Meeting. Early Bloomers: First Cacti Blooms of the Season. Ad Konings, co-author of *Cacti of Texas in Their Natural Habitat*.

then select the chapter. **Hikers** should always bring plenty of water, hat, sun protection, lunch and/or snacks, field guides, and wear sturdy shoes, suitable for rough, uneven ground.

Gila (Silver City)

All programs are free and open to the public. Meetings are third Fridays at 7 p.m. at WNMU's Harlan Hall, with refreshments following the program. Activity updates and further details posted on www.gilanps.org.

Jan 20 Talk. Plant Collecting in the Tropics, With an Introduction to Tropical Plant Families. Patrice Mutchnick, biology lab director at WNMU.

Feb 17 Talk. The Madrean Sky Island Archipelago: Summary of Recent Botanical Surveys, With Notes on the Aftermath of the Monument Fire in the Huachuca Mountains. Mark Dimmitt, curator of botany and field ecologist, Arizona-Sonora Desert Museum.

Mar 16 Talk. Midscale Vegetation Mapping Project for Region 3 of the U.S. Forest Service (New Mexico and Arizona). Mike Natharius, Forest Soil Scientist, Gila National Forest.

Las Cruces

Meetings and workshops are second Wednesdays (unless otherwise noted) at 7 p.m. in the conference room of the Social Center at the University Terrace Good Samaritan Village, 3011 Buena Vida Circle, Las Cruces. Field trips are Saturdays; most last into the afternoon. Participants must sign a release-of-liability form. Children must be accompanied by their parents. Programs and field trips are free; nonmembers always welcome. Contacts: Carolyn Gressitt, 575/523-8413; Al Krueger, 575/532-1036.

Jan 11 Meeting. E. O. Wootton: Pioneer Botanist of New Mexico. Dr. Kelly Allred.

Jan 14 Workshop (no field trip). Five Basic Steps to



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Improve Your Digital Images. Lisa Mandelkern. Bring laptop with photo-editing software (any type) and a couple of photos to work on (not necessarily plant photos). 10 a.m. at conference room of Good Samaritan Village.

Feb 8 Meeting. Medicinal Plants of the Mesilla Valley. Dr. Mary O'Connell. Chemical analysis/medical perspective.

Feb 11 Field Trip. Tour of Sierra Vista Nursery in La Union. Horticulturalist Joe Kane, leader. Meet 8:00 a.m. at east end of Rio Grande Bank parking lot at the corner of University/Telshor.

Mar 14 Meeting. Traditional Uses of Native Plants (Curanderismo) along the Border Area. Dr. Armando Gonzalez-Stuart, pharmacologist.

Mar 17 Field Trip. Prehistoric Trackways National Monument, and hiking in the Robledo Mts. Meet 8:00 a.m. at the parking lot of the U.S. Post Office in Fairacres.

Otero (Alamogordo)

For field trip information, contact Eric Metzler, metzler@msu.edu, 575/443-6250; or Helgi Osterreich, hkasak@netmdc.com, 575/585-3315. More info should be available by the beginning of each month.

Jan 14 Film. Preview showing of *Green Fire*, a documentary about Aldo Leopold. 3 p.m., 1010 16th St., Alamogordo.

Feb 11 Presentation on current work at NMSU, or presentation of slides from trip to Guatemala. TBA. 3 p.m., 1010 16th St., Alamogordo.

Mar 24 Field trip/work day at Oliver Lee Memorial State Park. Charles Wood will lead a short walk on the riparian trail, followed by weeding work in the Chihuahuan Desert Garden. Bring water and garden tools, gloves. Meet at 9 a.m. in the Visitor Center parking lot at Oliver Lee.

San Juan (Farmington)

Meetings are third Thursdays at 7 p.m. at San Juan Community College. For more info, contact Donna Thatcher, dthatcher@fmtn.org or 505/325-5811.

San Juan (Southwest Colorado)

The San Juan/Four Corners Native Plant Society, part of the San Juan Chapter of the Native Plant Society of New Mexico, has the following programs scheduled. All programs are at 6:30 p.m., Fort Lewis College, Center of Southwest Studies, Lyceum Room.

Jan 24 The Effects on Vegetation and Wildlife of the Mesa Verde Fires of 2000. George San Miguel and Bryan Wender, Mesa Verde National Park.

Feb 21 Violets, Violets, Violets. Ross McCauley.

Mar 13 The Missionary Ridge Fire, Beetles, and Tree Death: How Does Our San Juan Forest Type and History Determine Our Techniques for Forest Restoration? Julie Korb.

Santa Fe

Meetings are third Wednesdays at 6:30 p.m. at Morgan Hall—New Mexico State Land Office, 310 Old Santa Fe Trail, Santa Fe. Free parking available adjacent to the building. For more information, contact Tom Antonio, tom@thomasantonio.org, 505/690-5105; or visit npsnm.unm.edu.

Jan 18 Wildflowers of the Sandia and Manzano Mountains of Central New Mexico. Authors Larry Littlefield and Pearl Burns will discuss their new books and sign copies.

Feb 15 A Brief History of *Theobroma cacao* (aka chocolate) in the American Southwest. Dr. Patricia Crown, Distinguished Professor of Anthropology, UNM.

Mar 21 Cerrillos Hills State Park and Its Grassful Assets. Sarah Wood, Park Manager.

Taos

Meetings are third Wednesdays at 7 p.m. in the Los Angeliitos Room at the Taos Convention Center. Please check the NPSNM website for updates and information on upcoming field trips.

Jan–Mar No events scheduled.



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CONSERVATION CORNER

Conservation Success in 2011 and a Prospectus for 2012

by Jim McGrath, NPSNM Conservation Committee Chair

As we roll into the new year of 2012 I wanted to look back and see what we accomplished in terms of conservation during 2011. And then let's take a look at some conservation objectives for 2012.

Cloudcroft Phacelia (*Phacelia cloudcroftensis*)

Our August search for this very rare plant was successful, as we found a total of 13 adult plants with about 45 seedlings in two locations approximately 3 miles west of Cloudcroft. Of the 13 adult plants, 12 were found in the same location as the previous year, but this year's visit revealed four times as many flowering adult plants as the previous year.

Dan Belcher's Discovery

The advertising for the Cloudcroft *Phacelia* rare plant field trip in this newsletter led to the independent discovery of another adult *Phacelia* plant and 12–15 seedlings by Dan Belcher of the El Paso chapter in a location about one mile west of the large population found during the Rare Plant field trip. All of these populations have been found on the north side of Highway 82 between Cloudcroft and Alamogordo.

Blue Hole Cienega

NPSNM is interested in becoming familiar with the unique features of the state-owned cienega and finding ways to assist the state in managing the preserve. NPSNM also wants

to promote greater involvement of the Santa Rosa community in the preservation and management of the cienega. The Blue Hole Cienega Nature Preserve is home to the federally threatened Pecos sunflower (*Helianthus paradoxus*) and the state endangered Wright's marsh thistle (*Cirsium wrightii*). The 116-acre

preserve also contains a unique alkaline wetland as well as a tallgrass prairie. Jim McGrath and Don Heinze became familiar with the preserve and its inhabitants during three spring 2011 visits. Christian LeJeune installed 10 groundwater monitoring wells and has trained Estela Thompson's Santa Rosa Middle School science students to manually check groundwater levels. Lastly, NPSNM successfully assisted the New Mexico Energy, Minerals and Natural Resources Department Forestry Division, led by botanist Bob Sivinski, in removing more than a thousand invasive trees, saplings, and seedlings—primarily Russian olive (*Elaeagnus*

Continued page 9



More than 1000 saplings and seedlings (mostly Russian olive) were removed during the two-day Russian olive removal event held in October at Blue Hole Cienega. Show here are (lower left) Doug Cone, who came all the way from Lubbock, TX; (lower right) Jim McGrath, who tried using a weed wrench; and (top) Shawn Beck of the state Forestry Division, who used a pick-mattock.

Photos: (lower) Phil Tonne, (top) Jim McGrath

Conservation Corner (continued from p. 8)

angustifolia)—in late October. A total of nine Forestry Division employees (Bob Sivinski, Shawn Beck, Carol Bada, Nick Smokovich, Dan Ware, Eugene Pino, Chris Romo, Arnie Friedt, and Mike Neathamer) and an additional nine NPSNM volunteers (Jim McGrath, Gary Runyan, Don Heinze, Doug Cone, Yvonne Chauvin, Phil Tonne, Dana Price, Jeremy McClain, and Jennie Towne) donated their time in the two-day event.

Holy Ghost Ipomopsis Plantings

Several NPSNM volunteers joined Rare Plant Botanist Phil Tonne, Forestry Division Botanist Bob Sivinski, and several other agency employees, interns, and volunteers in planting 1,111 greenhouse-grown transplants of the Holy Ghost ipomopsis (*Ipomopsis sancti-spiritus*) in Holy Ghost Canyon north of Pecos, NM. The plantings are part of recovery efforts for this species, which is listed endangered by the U.S. Fish and Wildlife Service. Holy Ghost Canyon site is the only location where this species is known to naturally exist.

Conservation Prospectus for 2012

We will continue our Blue Hole Cienega and rare plant initiatives.

Blue Hole Cienega The state Forestry Division plans a prescribed burn in January. If the burn does indeed take place, we will organize a field trip to observe the prescribed burn and educate participants on the fine art of prescribed burning in management of the preserve. We will continue to make periodic visits to the site to observe the vegetative response following the burn and to make other wildlife observations. And in October we will once again organize another invasive removal event.

Cloudcroft Phacelia We will schedule another rare plant field trip in late August to search for the *Phacelia*. We have learned a lot about this elusive plant in the past two years. Still, the plant is so rare, the boundaries of its habitat have

not clearly been established. What we do know about its habitat is that the habitat itself appears to be very rare. It's very possible that this is an extremely rare species, but only more searching will establish this possibility as fact.

Bellflower Ground Cherry (*Physalis virginiana* var. *campaniforma*) Bob Sivinski reports that this taxon has apparently been rediscovered near Pecos, NM. The taxon had not been collected since 1908, according to the New Mexico Biodiversity Collections Consortium website (<http://nmbiodiversity.org>). It is not clear whether var. *campaniforma* is a valid taxon or whether it represents just variation within *Physalis virginiana*. Only searching for this plant and making significant plant collections will determine the status of this taxon. If it is a valid taxon, it would qualify as a rare plant. So NPSNM volunteers will be recruited to search for this plant in late July or August.

Rare Plant Photography Many species on the New Mexico Rare Plant List are represented by excellent photos. However, the New Mexico Rare Plant Website (<http://nmrareplants.unm.edu>) is continually being updated as better-quality photos become available. In fact, some species are only represented by photos of herbarium specimens. So another field trip may be planned to visit the western slope of the Guadalupe Mountains in southern New Mexico. The primary objective would be to find and photograph *Anulocaulis leiosolenus* var. *howardii* and *Mentzelia humilis* var. *guadalupeensis*. Such a field trip would depend upon the availability of adequate moisture to stimulate flowering.

Reality Reality? The likelihood that all of the above projected activities will actually take place is low. These field trips require a lot of preparation and depend upon adequate weather conditions and the availability of time for volunteers to put them into their schedules. But whatever field activities do take place, rest assured that we will have a lot of fun exploring the New Mexico landscape and learning more about the New Mexico flora. ❖



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Membership in the NPSNM is open to anyone supporting our goals of promoting a greater appreciation of native plants and their environment and the preservation of endangered species. We encourage the use of suitable native plants in landscaping to preserve our state's unique character and as a water conservation measure. Members benefit from chapter meetings, field trips, publications, plant and seed exchanges, and educational forums. Members also qualify for membership in New Mexico Educators Federal Credit Union. A wide selection of books dealing with plants, landscaping, and other environmental issues are available at discount prices. The Society has also produced two New Mexico wildflower posters by artist Niki Threlkeld and a cactus poster designed by Lisa Mandelkern. These can be ordered from our poster chair or book sales representative (contact information listed on page 4).



New Mexico wildflower posters: \$8 (nonmembers, \$10)
 Cactus poster: \$5 (nonmembers, \$8)

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*I (we) wish to affiliate with the checked chapter:
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Annual Dues:

Individual	\$ 25
Family	30
Friend of the Society	50
Sponsor	100
Patron	250
Life Member	1,000
Limited Income, Students, and Seniors (65+)	15

Total: \$ _____

*Remember that 25% of contributions are
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Can you tell your *griseas* from your *emoryis*?

Shown here are winter twigs from (above) *Quercus emoryi* and (below) *Q. grisea*.

Oaks show winter buds clustered at the ends of their twigs, more so than other trees. In these photos, *Q. grisea* has more scales per bud than *Q. emoryi* and the scales are more likely to have a clear margin. These photographs were taken by Russ Kleinman, current president of NPSNM's Gila chapter, and compiled with many other winter twig photos on his website, gilaflo.com.

