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PHOTO: JANICE TUCKER

Leonora Curtin Wetland Preserve

IS FALL FOR PLANTING?

In recent years, the nursery industry has mounted a strong advertising campaign to convince people to do more planting in the fall. While this helps nurseries reduce inventory before winter, is it really good for the homeowner and the plants? In many cases, it is. Generally speaking, the weather is great for gardening now, and fall planting can help spread out the work so that spring is not so hectic. And for certain plants, it can indeed be advantageous to go into the ground in the fall, as they will be somewhat better rooted in when the heat increases the next summer.

The plants that I would recommend most for fall planting are those which are least likely to suffer if we have a severe winter, i.e. reliably hardy, healthy at planting time, container-grown or balled in burlap, deciduous or coniferous trees and shrubs,

plus perennials which are tolerant of winter moisture. Seeds which need a chilling period in order to germinate well, which includes many wildflowers, are also good candidates for fall planting. Plants which I would not recommend are borderline hardy plants, broadleaf evergreens, bareroot trees and shrubs, and perennials which are prone to rot out in a cold, wet winter.

The soil is still warm from summer, which will stimulate root growth long into the fall. New plantings must be watered during prolonged dry spells in the winter, generally at least once a month. Talk to your supplier about the watering needs of the plants you choose. Using a root stimulator or mild organic fertilizer at planting time and next spring can help get them off to a good start. Happy gardening! ■

-TRACY NEAL, GREEN FORWARD



Red Lake Currant

Meadows, Wildflowers & Grasses Conference

LEARN HOW TO CREATE BEAUTIFUL MEADOWS AND NATURALISTIC GARDENS!

Featured speakers include Dr. Kelly Allred, John Greenlee, Donald Heinz, Judith Phillips, and David Salman

Saturday, October 2, 8am–3:00pm

IAIA Campus, Center for Life Long Learning Building



PHOTO: JANICE TUCKER

INFORMATION & REGISTRATION:

505.471.9103

info@santafebotanicalgarden.org

www.SantaFeBotanicalGarden.org



ON LANGUAGE

Interesting facts about a highlighted word

Meadow: Land covered with grasses, or a grassy field, or other discernible area of grassland either mown for hay or used as pasture is known as a meadow. The term is used either to denote a “natural” (uncultivated) meadow or one planned to enhance the presence of particular flowers or discourage the invasion of others. This distinction between uncultivated and cultivated meadow usually depends on the context in which the word is used. Thus, meadow can be wild or landscaped, but in general a healthy meadow has fifty percent of its surface in some form of grass. (Subalpine meadows, however, are dominated by herbaceous plants.) In North American usage, meadow refers to most often, though not exclusively, to a tract of uncultivated grassland, often along a river or in a marshy region, as described by James Galvin in *The Meadow*: “There is an island on the island which is a meadow, offered up among the ridges, wearing a necklace of waterways, concentrically nested inside the darker green of pines, and then the gray-green of sage and the yellow-green of prairie grass.” ■



PHOTO: SUNNY TUCKER

Our meadow, the Leonora Curtin Wetland Preserve

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—DONNA SEAMAN

The New York Times on Botanical Gardens

A recent article in the *New York Times* on the future of botanical gardens was forwarded to the office of the Santa Fe Botanical Garden by a dozen of its members. Its premise was provocative and timely; how long established and well-loved botanical gardens are changing their programming and exhibits to remain relevant to their visitors. Since our new garden is still in the planning stages, understanding this trend is important to ensure that the garden’s design, planned exhibits and future programs reflect the interests of our community. The consensus of the staff members of gardens who were interviewed for NTY article is revealing.

WHAT’S OUT: Flower shows, horticultural lectures, flower gardens solely for the sake of horticultural display, and non-sustainable plant collections.

WHAT’S IN: Food festivals and edibles, the environment, health, interactive exhibits for children, guest chefs, and family activities.

How will the Santa Fe Botanical Garden use this information as we develop plans for the garden, and formulate ideas about how to make learning about plants, gardening, sustainability and the responsible use of natural resources? Creating habitats, growing fruit and grapes, harvesting, celebrating our cultural heritages and coming together on the land we share will make our mission educational, stimulating and fun. How can we create a place that our friends and neighbors can call its own? How can we share with our many visitors the delights and also challenges of partnering with nature at 7,000 feet with never quite enough rainfall?

This is our challenge and we’ve accepted it with enthusiasm. ■

Read the *New York Times* article at <http://www.nytimes.com/2010/07/27/us/27botanical.html>

Leonora Curtin Wetland Preserve

If you haven't been out to our preserves this summer, make it a point to get out in the fall. The Leonora Curtin Wetland Preserve is a spectacle of color in September and October. The cottonwoods turn a majestic yellow and the three leaf sumac is a festival of reds. A walk through the wetland should be added to your to do list this fall. It's a magical experience. Open Saturdays from 9am to noon and Sundays from 1pm to 4pm, we offer a guided tour each Saturday at 10am. Join us soon. You'll be glad you did.

Hunting for Mollusca and Crustacea at the Wetland

In August, Brian Lang and Jim Stuart, of NM Department of Game and Fish, came out to the wetland to conduct a survey of Mollusca and Crustacea. Several docents joined them in the hunt.

The following invertebrate taxa were identified:

Bivalves (Pea- or pill clams)

- Ubiquitous peaclam, *Pisidium casertanum*: native, common

Aquatic Snails

- Golden fossoria, *Fossoria obrussa*: native, common
- Ash gyro, *Gyraulus parvus*: native, common
- Marsh rams-horn, *Planorbula (Planorbella) trivolvis*: native, common
- Physa, *Physa acuta*: native, common
- Big-ear radix or European ear snail, *Radix auricularia*: exotic, invasive: native to Europe and Asia

Land Snails

- Blunt ambersnail, *Oxyloma retusum*: native, rare*
- Ambersnail, *Succinea* sp.: native, common
- Meadow slug, *Deroceras laeve*: native, common*

Crustaceans

- Water fleas (Cladocera): common in springs, streams, ponds, lakes statewide.
- Seed shrimp (Ostracoda): common in springs, streams, ponds, lakes statewide.
- Amphipods (side-swimmers, scuds), two genera:
 - Gammarus* sp.: uncommon, found in isolated spring systems at high- (northern) and low-elevations (southeastern) in NM.*
 - Hyalella* sp: common, found in springs, ponds, lakes, and rivers statewide.*



PHOTO: FRAN COLE



PHOTO: JANICE TUCKER

Above: A view of the dock and pond. Left: Artist Jan Denton teaching a watercolor class at LCWP this summer.

Miscellaneous Observations:

- Bullfrog, *Rana catesbeiana*: non-native, invasive, common statewide
- Dragon/Damselflies:
 - Common Green Darter, *Anax junius*
 - Great Spreadwing, *Archilestes grandis*
 - Spotted Spreadwing, *Lestes congener*
 - Widow Skimmer, *Libellula luctuosa*
 - Flame Skimmer, *Libellula saturata*
 - Blue Dasher, *Pachydiplax longipennis*
 - Blue-eyed Darner, *Rhionaeschna multicolor*
 - Variiegated Meadowhawk, *Sympetrum corruptum*
 - Black Saddlebags, *Tramea lacerata*
 - Pacific Forktail, *Ishnura cervula* (probable based on local occurrences)
 - "Bluet" damselfly, *Enallagma* sp. (could be Tule Bluet, *E. carunculatum*)

For more information regarding dragonflies and damselflies go to: <http://www.odonatacentral.org> ■

*A "Species of Greatest Conservation Concern" under the Department's 2006 plan "Comprehensive Wildlife Conservation Strategy For New Mexico." For more information go to: <http://www.wildlife.state.nm.us/conservation/index.htm>

Brian Lang with New Mexico Game and Fish and docents Linda Churchill and Jeanne Gozigian examine life in the pond.



PHOTO: JANICE TUCKER

A T T H E P R E S E R V E S

Ortiz Mountains Educational Preserve

Fall is the best time of the year to walk in the Ortiz. The aspen trees and Chamisa bushes are turning colors and the ever noisy pinon jays and squirrels are gathering their prized nuts to store for the winter. The ravens soar over head as they have not a care in the world, while grasshoppers can still be spotted along with the occasional butterfly and hummingbird. Wandering and hunting in the upper reaches of the Preserve are the bear and cougar. Their habitat is what makes the Ortiz a rugged solace.

Join us on a hike in the Ortiz this fall. The rush of wind blowing through the ponderosa is a wonderful sound found only in the mountains. Come take a walk on the wild side!

Many of our favorite hikes at the Ortiz Mountains Educational Preserve are being offered in September and October.

Reservations are always suggested. ■

-PAT BROWN,
ORTIZ MOUNTAINS DOCENT

FALL HIKES IN THE ORTIZ

Saturday, September 11th

8:30 am - Bird Walk with Lawry Sager

Sunday, September 12th

1:30 pm - Easy Skid Trail Hike with Barbara Briggs

Sunday, September 26th

1:30 pm - History Tour with Bill Baxter

Sunday, October 10th

8:30 am - Hike to Placer Peak (strenuous)



Bat cupola at OMEP

A New Project at the OMEP

The New Mexico Abandoned Mine Land (AML) Program is preparing for the installation of a rock wall and viewing bench at one of our bat cupolas within Ortiz Mountains Educational Preserve. Both the wall and bench will be constructed from rock that will be harvested from the preserve. The purpose of the wall is to stabilize an eroding rock outcrop adjacent to the structure that is causing a fair amount of corrosion. The AML Program hopes to prevent further damage by containing the sediment load and keeping it off the bat cupola.

The Program safeguards and reclaims abandoned mines that have had no production since 1977. The primary source of funding for the Program is through a federal fee on active coal mining. Abandoned mine sites pose a significant threat to the public, as many of these sites have dangerous openings, rotting timbers, hazardous wildlife, and often contain poisonous gasses. The AML Program actively promotes public awareness of hazards associated with abandoned mine lands. These mine sites also attract a wide variety of wildlife including rare species of bats; therefore, hazard abatement and the preservation of wildlife habitat are high priorities for the Program. ■

-ZOE ISAACSON, PROJECT MANAGER/RECLAMATION SPECIALIST,
NEW MEXICO ABANDONED MINE PROGRAM

A Weed Management Plan

The Santa Fe Botanical Garden recently completed a weed management plan for non-native invasive plants at the Leonora Curtin Wetland Preserve. The plan identifies the most troublesome plants and discusses best practices for controlling them.

Funding for this project came from the U.S. Fish & Wildlife Service. The plan is available on the SFBG website, www.santafebotanicalgarden.org, "Our Santa Fe Community." Please feel free to download the information, including a useful calendar. ■

Winter Lecture Series 2011

The Santa Fe Botanical Garden is planning a series of illustrated presentations for 2011. Topics may include Ancient Roman Gardens, Medieval Cloister Gardens, Gardens of the Italian Renaissance, English Gardens from Henry VIII to the Duchess of Northumberland's recent garden at Alnwick Castle, and French Baroque Gardens: Vaux-le-Vicomte and Versailles. Further details will be available on our website soon, www.santafebotanicalgarden.org. ■



MUSEUM HILL UPDATE

Documenting the Arroyo de los Pinos Restoration

-JANICE TUCKER

In November, 2009, SFBG began to document the Arroyo restoration as a way to monitor its effectiveness and evolution from the completion date forward. Ten marked locations were sited along the Arroyo for photo documentation. Each of the sites along the Arroyo will be monitored every 4 months by taking photographs from the same locations and replicating angle and camera setting as much as possible. Many of the photo points record Arroyo conditions toward the east and west, while other points are monitored from only the east. Each documentation session notes specific data, including weather conditions and date of the most recent rainfall. Vegetation growth and location are also noted and photographed. Documentation will provide information on the progress of erosion reduction, silt build-up and vegetation changes along the Arroyo. An image file of each session and the recorded data is kept at the SFBG office.

PHOTO: JANICE TUCKER



Photo taken during recent monitoring session

“It’s great to see the Arroyo healing itself.”

This documentation continues the efforts of the Santa Fe Botanical Garden to restore sections of the Arroyo that were badly degraded. Restoration work was completed in 2009. The purpose of the arroyo restoration was to control the erosion

by slowing the water flow. One-rock dams and a more serpentine design presented deterrents to rapidly running water, causing it to slow and reduce its destructive power.

Within a few weeks after the restoration was completed, pools of water were evident after rainfalls. Vegetation began to take hold and stay rooted rather than being swept away by flash floods. Why? As planned, the new Arroyo design did force the water to slow, and thus become an asset rather than a raging liability. Santa Fe Botanical Garden President, Charlie Newman, recently took a walk through

the Arroyo de los Pinos and commented, “It’s great to see the Arroyo healing itself.”

To date, 3 photo documentation sessions have been completed: November 2009, March 2010 and July 2010. The next scheduled session will be in November 2010.

The past year’s weather conditions of a long snowy winter, followed by a very dry June and heavy July rains were ideal for testing and monitoring the effectiveness of the Arroyo restoration. The July photo documentation session revealed an Arroyo filled with a variety of vegetation thriving in the waterway with silt build-up adjacent to the rock dams. The Arroyo conditions are much better after restoration.

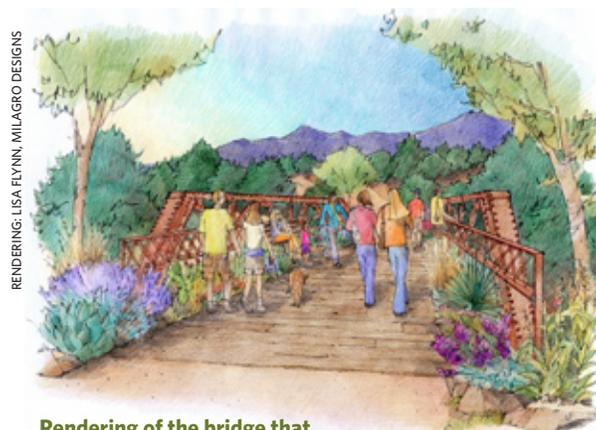
The photo documentation will allow Santa Fe Botanical Garden to keep an eye on the health of the Arroyo de los Pinos. The documentation will be helpful in pinpointing any areas that may need attention before little problems become big ones. With documentation in place, it will be easier to keep track of the progress. ■

Botanical Garden at Museum Hill Opening 2011

The Santa Fe Botanical Garden at Museum Hill will be the first public garden, not only in Santa Fe, but in all of Northern New Mexico. This region of the country is dramatically beautiful, and at 7,000 feet, supports superb native flora in the subtle colors of the high desert. Water resources are precious. One of the objectives for this garden is to celebrate the glorious gardens that can thrive here, while demonstrating the thoughtful gardening practices that respect our environment.

Frequent programs at the new garden will be geared towards families.

▪ Santa Fe is recognized the world over for the magnificent blending of cultures. The Santa Fe Botanical Garden will tell this story through



RENDERING: LISA FLYNN, MILAGRO DESIGNS

Rendering of the bridge that will span the Arroyo de los Pinos in the Garden

the plants that grow here. This is a fascinating tale that will illustrate how we have come together and flourished on this land that we share.

▪ The protection and preservation of habitats have always been important messages of the Santa Fe Botanical Garden. The Museum Hill Garden will provide the opportunity to teach about the value of creating more biodiversity in a landscape that has become a monoculture over time.

▪ The orchard will be a primary destination in the garden, where growing fruit

and grapes and the celebration of the harvest will offer many opportunities for fun and instructive events. ■

VOLUNTEER RECOGNITION

LINDA CHURCHILL



Volunteer Linda Churchill

Tesuque gardener, Linda Churchill is our "go to" plant expert. She knows the answer to almost any plant or landscaping question and if she doesn't know the answer, she finds it quickly. She knows what to plant and when to plant it. At a meeting recently when we were talking about Little Bluestem, she remarked, "Every garden should have this plant." Her enthusiasm for gardening is contagious and includes a love of wildflowers and roses as well as vegetables and fruit. Originally from the Midwest, she is the first to admit that gardening in New Mexico is hard work but educational as each plant, water or pest problem is addressed.

Linda is a veteran member of SFBG, a former board member, and is a longtime docent at the Leonora Curtin Wetland Preserve, a job she takes very seriously. She loves the preserve and never considers it work. We appreciate this commitment. Her dedication to conservation, her excitement for plants, plant identification and her cheerful interaction with visitors is remarkable. Linda serves on the Leonora Curtin Wetland Preserve Committee and assists in its management and maintenance. She is a major force in the planning of the annual Plant Sale both in choosing plant inventory and sale implementation. In 2009, Linda launched a landscape design company, Green Forward. This year, Linda created a gorgeous demonstration garden at the Plant Sale.

Linda Churchill and Green Forward business partner, Tracy Neal, are consultants to Landscape Architect Gary Smith on the new garden at Museum Hill. ■

IN MEMORIAM

Donations made in the memory of Mark Wood:

Arabelle Luckhardt
Cathy Strong

Donation made in memory of Doug Dayton:

Cathy Kalenian

A LEGACY for the FUTURE

Public gardens add value to many people's lives. If you want to ensure that the Santa Fe Botanical Garden will thrive for years to come, please consider a planned gift in your estate planning.

For information on the Santa Fe Botanical Garden Legacy Society, please contact Linda Milbourn, Executive Director at 505-471-9103 or email linda@santafebotanicalgarden.org. ■

Meet Cristina Salvador

Cristina has joined the staff of the Santa Fe Botanical Garden as Development Associate. She is responsible for planning and organizing fundraising activities for the Santa Fe Botanical Garden at Museum Hill.

Cristina brings a valuable botanical garden experience to the SFBG. She has worked for the Curation and Conservation Departments at the National Tropical Botanical Garden, the University of British Columbia, Smithsonian Tropical Research Institute and Duke Forest. Cristina also worked with the outdoor education programs for the Jasper Ridge Biological Preserve.

Cristina says, "I feel that places to learn about not only local biodiversity, but also spark interest in the world's flora and fauna, are necessary for conservation. Botanical gardens highlight spectacular plants and design, yet also foster people's knowledge of their importance in food, medicine, and ecosystem services. I'm thrilled for the opportunity to be a part of the SFBG." ■



Cristina Salvador in the Teton Range

Santa Fe Botanical Garden

Board of Directors:

Officers

- Charles Newman, *President*
- Nina Wells, *Vice President*
- Carlos Duno, *Treasurer*
- Carl Troy, *Secretary*

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- Fletcher Catron
- Jamie Douglass
- Doris Francis
- Cathy Gronquist
- Carol Johnson
- Cathy Kalenian
- Liz Layden
- Rosemary Minard

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Executive Director

- Linda Milbourn

Outreach Director

- Fran Cole

Development Associate

- Cristina Salvador

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Newsletter :

- Andrea Multari, *Graphic Design*
- Kay Burdette, *Website*

MEMBERSHIP

ROLL CALL Welcome new members of the Santa Fe Botanical Garden, May 29th through August 20th, 2010.

- Leona Stucky Abbott
- Betsy Arakawa
- Clark Anderson
- Sarah Baldwin
- Judy Broughton
- Fletcher & Diane Catron
- Helen Chorostecki
- James Carnazzo & Tieraona Lowdog, MD
- Eve DeBona
- Kate Braverman
- Ada Browne
- Marty Dewindt
- Linda Dillman
- Tana Earley
- Sherry Engstrom
- Will Halm
- Hana Hanleigh
- Gordie Holloway
- Ana Ionntiu
- Jan Jahner
- Pat & Don Jochem
- Thomas Kilroy
- Barry & Lynda MacKichan
- Minna Maryanov
- Leslie Mccabe
- Jeremy Mitchell
- Sana Morrow
- Janey Potts
- Doris Roland
- Solange Serquis
- Sugar Shankman
- Suzanne & Joel Sugg
- Helena van Heiningen
- Helen & Penn Way
- Susan Yanda

Become a New Member or
Renew Your Membership Online

Click on the Membership link on the Homepage at
www.santafebotanicalgarden.org

MARK YOUR CALENDAR 2010

Saturday, September 11th, 8:30am

Ortiz Mountains Educational Preserve
Bird Walk with Lawry Sager

Sunday, September 12th, 1:30 pm

Ortiz Mountains Educational Preserve
Easy Skid Trail Hike with Barbara Briggs

Sunday, September 26th, 1:30 pm

Ortiz Mountains Educational Preserve
History Tour with Bill Baxter

Saturday, October 2nd

Full day Conference
Meadows, Wildflowers & Grasses
With John Greenlee, Dr. Kelly Allred and more! At IAIA campus off Richards Avenue
\$50 members, \$65 non members

Sunday, October 10th, 8:30 am

Ortiz Mountains Educational Preserve
Hike to Placer Peak (strenuous)

For more information call SFBG or visit www.santafebotanicalgarden.org

SAVE THE DATE: OCTOBER 2, 10AM - 3PM
MEADOWS, WILDFLOWERS & GRASSES CONFERENCE



GIVE THE GIFT THAT KEEPS ON GIVING

A gift membership is a great way to support SFBG and introduce others to the Garden we all love. A membership to SFBG is the perfect gift for the garden lovers on your list.

Visit our website at www.santafebotanicalgarden.org to see all of the benefits of a Santa Fe Botanical Garden Membership.

Giving a gift membership is easy—call us at **505-471-9103** or email info@santafebotanicalgarden.org

FEATURED BUSINESS PARTNER

Santa Fe Greenhouses



Ask us about our new business partners program!