

**Texas Riparian and Stream Ecosystem Education Project**  
**CWA 319(h) NPS Grant Program**  
**TSSWCB Contract No. 12-07**

Quarter no. 3 From 04/01/13 Through 6/31/13

**I. Abstract**

In this quarter of the project work primarily focused on meetings with agency partners and the Planning Team, developing course and advertising materials, registration, and conducting the first workshop in Lockhart, TX on June 25, 2013. Work also continued on contacting watershed coordinators to plan future workshops across the state. Tasks also included updating webpages, gathering educational materials/presentations/evaluations, and visiting with some of the watershed coordinators about this program. TWRI has developed a website, program fact sheet, and general agenda. To advertise the new program we conducted a presentation at the Plum Creek Watershed Partnership Meeting on May 2, 2013 to give a brief program overview. Dictson presented at the Texas Wildlife Association Women of the Land Conference GLCI Grazing Riparian Management workshop in Navarro County on May 10, 2013 and advertised the program. TWRI also advertised the program and workshops at the Southwest US Stream Restoration Conference in San Antonio. Texas Forest Service wrote an article advertising the program in their newsletter. Nueces River Authority has been working on digital tools and updating the Remarkable Riparian Website.

**II. Overall Progress and Results by Objective and Task**

**OBJECTIVE 1: PROJECT ADMINISTRATION**

Administer, coordinate and monitor all work performed under this project including technical and financial supervision and preparation of status and final reports.

*Task 1.1: Project Administration –TWRI/IRNR will prepare electronic quarterly progress reports (QPRs) for submission to TSSWCB. QPRs shall document all activities performed within a quarter and shall be submitted by the 15<sup>th</sup> of January, April, July and October. QPRs shall be distributed to all project partners.*

The following actions have been completed during this reporting period:

- a. The QPR for the last quarter was submitted on 3/12/13 date.

**24% Complete**

*Task 1.2: TWRI/IRNR will perform accounting functions for project funds and will submit appropriate Reimbursement Forms to TSSWCB at least quarterly.*

The following actions have been completed during this reporting period:

- a. TWRI and OSRS submitted reimbursement forms for the last quarter.
- b. TWRI has processed invoices from NRA.

**24% Complete**

*Task 1.3: TWRI/IRNR will host coordination meetings or conference calls, at least quarterly, with project partners to discuss project activities, project schedule, communication needs, deliverables, and other requirements. TWRI/IRNR will develop lists of action items needed following each project coordination meeting and distribute to project personnel.*

The following actions have been completed during this reporting period:

- a. TWRI has conducted multiple meetings and teleconference calls with members of the Planning Team over the quarter including:
  - Calls with Dr. Georgianne Moore, ESSM Planning team member 04/15/13 and 04/26/13.
  - Conference Calls planning and coordinating Riparian Vegetation Workshop at Stream Restoration Conference in San Antonio occurred on 4/15/13 and 4/22/13.
  - Conference Call on Riparian Grazing Management Workshop with coordinators and instructors: Brian Hays, Blake Alldredge, Jeff Goodwin, Russell Castro, and Ricky Linex on 4/17/13.
  - Presented a 45 minute presentation at the Texas Wildlife Association's Women of the Land Conference in Scurry, Texas on Saturday 4/20/13.
  - Calls with Michael Haynes on coordinating Plum Creek Riparian Workshop 4/22/13.
  - Calls with Tom Arsuffi, LRFS and Melissa Parker, TPWD on 4/25/13 about the workshops and planning of workshop at joint meeting November 1, 2013.
  - Conducted a 15 minute presentation to advertise upcoming Riparian Workshop in Lockhart on June 25, 2013.
  - Conducted a 1 hour presentation at the GLCI sponsored Grazing Riparian management Workshop on May 10, in Navarro County, Texas about the nature and function of stream and riparian areas and advertised the Riparian Workshops.
  - Riparian Conference Call from 10-12 on May 16, 2013.
  - TWRI assisted with planning and coordinating the Riparian Vegetation Workshop and the Southwest Stream Restoration Conference in San Antonio on May 28-30, 2013.
  - Calls/emails with Hughes Simpson, TFS on forestry presentation, website links and CEUs contacts for forestry 4/10/13, 5/20/13, 6/19/13 and 6/21/13.
  - Emails and calls with Ward Ling on Geronimo and Alligator Creek Watershed Training 04/10/13, 4/15/13, 6/4/13 and 6/6/2013. TWRI provided slides about the upcoming workshop for Ling to present at Watershed Meeting.
  - Call with TRA and TXSER to discuss annual joint meeting with Riparian workshop on Friday in November 2013, through emails developed a save the date marketing piece 2/25/13.
  - TRA Board Business Emails multiple throughout quarter that discussed website and joint annual meeting.
  - NRA emails discussing the websites and tools occurred during the quarter.

- All of the team members have been contacted by TWRI over the quarter by emails to discuss the program, including inviting everyone to the 3/8/13 call.
- Meeting minutes were sent out to the Planning team for review.
- TFS conducted several calls with Nikki Dictson regarding the project and the Lockhart Riparian Workshop.

**24% Complete**

*Task 1.4: TWRI/IRNR will attend and participate in meetings, as appropriate, in order to communicate project goals, activities and accomplishments to affected parties. Such meetings may include, but are not limited to, Clean Rivers Program Basin Steering Committees, Texas Watershed Planning Short Course, Texas Watershed Coordinator Roundtables, and the TSSWCB Southeast and South Central Texas Regional Watershed Coordination Steering Committee.*

The following actions have been completed during this reporting period:

- a. TWRI has initiated scheduling presentations to advertise the new program including the following scheduled events during the next quarter.
  - Nikki Dictson delivered a presentation to advertise the Riparian Workshop at the Plum Creek Watershed Partnership Meeting on May 2, 2013.
  - Nikki Dictson gave a 1 hour presentation at the GLCI sponsored Grazing Riparian management Workshop on May 10, in Navarro County, Texas about the nature and function of stream and riparian areas and advertised the Riparian Workshops.
  - Nikki Dictson advertised the Riparian Workshops at the Southwest Stream Restoration Conference and Riparian Vegetation Workshops by providing the program fact sheet and save the date for joint Texas Riparian Association and Texas Society for Ecological Restoration Meeting in November 2013.
- b. TWRI has developed a Workshop flier/registration form (see attached Lockhart).

**24% Complete**

*Task 1.5: TWRI/IRNR will develop (Month 1-3), host and maintain (Months 4-36) a website to serve as a public clearinghouse for project-related information. This website will serve as a means to disseminate information to stakeholders and the general public.*

The following actions have been completed during this reporting period:

- a. TWRI/IRNR has initiated the project website as a part of the Texas Riparian Website – [texasriparian.org](http://texasriparian.org) and the TWRI/IRNR trainings website will manage all of the training RSVPs/registrations.
- b. The training registration site was developed, with the newly scheduled dates and has been available for folks to RSVP.
- c. These websites will be coordinated and linked to RemarkableRiparian.org website that will be managed by Sky Lewey - Nueces River Authority and will have the online educational delivery as discussed in Task 3.
- d. Texas Forest Service provided information and website links to TWRI for the Project website – now located under Resources.

- e. TexasRiparian.org website had 1913 visitors for the quarter.
- f. The TexasRiparian.org website has 79 subscribed to the website and posts.
- g. TWRI set up a twitter feed on the TexasRiparian.org website.
- h. TWRI set up a facebook and currently has 51 likes at <https://www.facebook.com/TexasRiparianAssociation>
- i. Materials continue to be developed and added to the websites weekly including an entire section about the Nov. 1-2, joint TRA and Texas Society of Ecological Restoration Annual Meeting.

**24% Complete**

*Task 1.5: TWRI/IRNR will develop a final report covering all project activities.*

The following actions have been completed during this reporting period:

- a. No activities to report during this quarter.

**0% Complete**

## **OBJECTIVE 2: COORDINATE AND DELIVER RIPARIAN EDUCATION PROGRAMS**

Deliver riparian education programs to targeted watersheds to promote healthy riparian areas, thus healthy watersheds, by increasing citizen awareness, understanding, and knowledge about the nature and function of riparian zones, their benefits, and BMPs for protecting them and minimize NPS pollution.

*Task 2.1: TWRI/IRNR will employ an Extension Program Specialist who will serve as the Riparian Education Program Coordinator and will be responsible for the general oversight and coordination of all project activities and for promoting, coordinating, and delivering riparian education training events and web-based tools.*

The following actions have been completed during this reporting period:

- a. An Extension Program Specialist II, Nikki Dictson has been hired to serve as the Riparian Education Program Coordinator.

**100% Complete**

*Task 2.2: TWRI/IRNR will establish a Riparian Team to direct this synergistic project. This Riparian Team will include TWRI/IRNR, ESSM, TFS, TPWD, NRA, NRCS, TRA, and TTU-LRFS. This Riparian Team will assist with program development, marketing, and delivery. This Riparian Team will serve as the primary pool of instructors to deliver the Riparian Education Program. The Riparian Team will meet as frequently as needed, likely quarterly in year 1 and semi-annually in years 2-3.*

The following actions have been completed during this reporting period:

- a. TWRI has established a Riparian Team of specialists that includes TWRI/IRNR, ESSM, TFS, TPWD, NRA, NRCS, TRA, and TTU-LRFS.

- b. Multiple emails and calls occurred with riparian planning team members throughout the quarter.
- c. Quarterly Call was held with instructors to plan and coordinate the June workshop on May 16, 2013 from 10-12 pm.

### **20% Complete**

*Task 2.3: The Extension Program Specialist will compile the amassed body of work utilized by the various entities for riparian workshops and conferences. In conjunction with the Riparian Team, the Extension Program Specialist will select the most appropriate educational materials and resources for use in identified priority watersheds. Although existing resources and guides will be used for trainings; where possible, regional information and curriculum will be developed by the Extension Program Specialist and Riparian Team. TFS will be integral for both adapting the program and delivering it in East Texas. NRA will be integral for adapting the program and delivering it in the Texas Hill Country and South Texas and providing the Riparian Team their valuable experience of program delivery in the Nueces watershed. As possible, TWRI/IRNR and the Riparian Team will work with cities to adapt the program for delivery in urban areas as well.*

The following actions have been completed during this reporting period:

- a. TWRI has been compiling presentation materials from past Extension presentations, from Dr. Jabar's workshops, NRA's workshops, Texas Riparian Associations Workshops, and Texas Parks and Wildlife Department's Workshops. These presentations are the basis and be utilized in the new workshops as appropriate.
- b. Texas Forest Service developed and submitted presentation content for the Lockhart and Junction riparian workshops.
- c. Workshop agenda's from these other partners have also been gathered to assist with coming up with the program agenda. Draft Agenda is attached.
- d. Stream Assessment and Field Guides have also been gathered and are being evaluated to assist with workshop presentations.
- e. TWRI contact Larry McKinney of the Harte Institute to discuss assistance from their faculty on bayou and coastal issues on 4/24/13.

### **20% Complete**

*Task 2.4: TWRI/IRNR will work in concert with TSSWCB, TCEQ, TPWD, NRCS, TFS, and other state and local organizations to select locations for the riparian education training events. This project will deliver riparian education programs to targeted watersheds across the state. Priority watersheds will be selected in collaboration with TSSWCB, and with input from TCEQ and others, and primarily represent those with approved WPPs or TMDLs and those developing or planning development of WPPs or TMDLs. Initial priority shall be given to Buck Creek, Cedar Creek Reservoir, Dickinson Bayou, Geronimo Creek, Hickory Creek, Lampasas River, Pecos River, Plum Creek, San Bernard River, and Upper Llano River. Other watersheds may be selected based on need and in response to collaborations with other groups and organizations, including river authorities, SWCDs, local citizen groups/watershed associations, etc. Watersheds will be selected consistent with the State's implementation of the Texas NPS Management Program. Additional watersheds will be selected based on impairment status, environmental*

*sensitivity, and/or other priority issues. TWRI/IRNR and TSSWCB will periodically make collaborative decisions to re-prioritize and add to/remove from the list of watersheds.*

The following actions have been completed during this reporting period:

- a. TWRI continues to coordinate with TSSWCB and TCEQ on the list of watersheds for workshops across the state.
- b. TWRI has been contacting watershed coordinators to determine when would be most appropriate to hold a workshop in their area.
- c. The list of initial watersheds has been shared with members of the riparian team.
- d. Plum Creek Watershed workshop was conducted June 25, 2013.
- e. Future workshops planned:
  - a. Upper Llano River Watershed is planned for in October 16th,
  - b. Leon River Watershed is planned for September 12, and
  - c. Geronimo and Alligator Creek Watershed is planned for September 17, 2013.
- f. TWRI has been contacted by Tiffany, Brazos River Authority with interests in conducting riparian workshops in their basin.
- g. TWRI has been contacted by a representative of Buffalo Bayou Watershed with interest in a Riparian Workshop for stakeholders.
- h. TWRI will continue to contact watershed coordinators to discuss the best future date for workshops in their watershed.

### **16% Complete**

*Task 2.5: The Extension Program Specialist will work to establish CEU credits for the riparian education program to encourage participation by landowners and water resource professionals.*

The following actions have been completed during this reporting period:

- a. TWRI has sent program materials to potential CEU providers so that they can review the agenda and information and evaluate the program to the following:
  - a. Texas Water Resources Institute – 1 hour
  - b. Texas Floodplain Management Association – waiting for response
  - c. Texas Nutrient Management Planning Specialists – Approved for 6 hrs.
  - d. Texas Master Naturalists – approval required at the chapter level each time – approved for Lockhart training.
  - e. Texas Master Gardeners – approval required at the chapter level each time
  - f. Texas Forestry Association – approved for up to 6 hrs approved
  - g. Society of American Foresters – approved for up to 4.5 hrs
  - h. Texas Board of Architectural Examiners does not approve courses but said we should advertise as “Acceptable for HSW” – or good for State CE hours.
  - i. TWRI will coordinate with County Extension Agents in each county for Texas Department of Agriculture – Pesticide Applicators – approved for 3 for Lockhart Training.
  - j. The program may also be used for CEUs for Professional Engineers.
  - k. TFS continued to participate in discussions regarding the development of a “Riparian Certification” program.
- b. TWRI will continue to look into additional CEUs for the program.

## **25% Complete**

*Task 2.6: TWRI/IRNR, with assistance of the Riparian Team, will actively market riparian education trainings through news releases (AgriLife News and local media outlets), internet postings, newsletter announcements, public/conference presentations, flyers, etc., to enhance awareness and utilization. TSSWCB must review and approve all project-related content in any materials prior to distribution.*

The following actions have been completed during this reporting period:

- a. TWRI advertised the workshops on the Website and Facebook account.
- b. TWRI has developed the RSVP system online to track attendance at the workshops.
- c. TWRI advertised the Lockhart Workshop on the TRA listserve the Texas Watershed Coordinators listserve, and emails to past participants of the workshops in Plum Creek.
- d. TWRI worked with the County Extension Agent and Plum Creek Watershed Coordinator and provided them the registration form and materials to advertise.
- e. TWRI developed a press release to advertise the Lockhart workshop with Michael Haynes, the county extension agent (see attached).
- f. TFS published an article on the Riparian Education Project in the Forest Stewardship Briefings newsletter (June 2013).

## **8% Complete**

*Task 2.7: TWRI/IRNR, with assistance of the Riparian Team, will deliver 25, daylong riparian education training events in prioritized watersheds (Subtask 2.4) during the project period. Five programs are planned for delivery in year 1 and 10 each year during years 2 and 3. Certificates of completion will be provided to all participants in the trainings.*

The following actions have been completed during this reporting period:

- a. TWRI has been in contact with the watershed coordinators on the list of watersheds.
- b. Three trainings have been scheduled with dates:
  - a. The Riparian workshop was conducted for Plum Creek in Lockhart on June 25, 2013.
  - b. TFS attended and presented at the Lockhart Riparian Workshop.
  - c. Geronimo and Alligator Creek in Seguin on Sept. 17<sup>th</sup>, 2013
  - d. Upper Llano River on October 16<sup>th</sup>, 2013
- c. Additional trainings are looking at future months for workshops and the watershed schedule will be continually updated. See attached scheduled.

## **10% Complete**

*Task 2.8: TWRI/IRNR in collaboration with the Riparian Team will develop a series of riparian education presentations of various lengths (15/30/45/60 min.) and provide them to a variety of audiences and venues statewide such as those listed in Subtask 1.4, but also including county and multi-county Extension programs, landowner workshops, SWCD programs, and other suitable venues. Further, key elements of the program will be incorporated into presentations*

*delivered by TFS, TWRI/IRNR, and others on the Riparian Team and delivered to a variety of audiences throughout the state.*

The following actions have been completed during this reporting period:

- a. TWRI is working to schedule presentations about the program to a variety of audiences including:
  - Nikki Dictson conducted a 45 minute presentation at the Texas Wildlife Associations Women of the Land Conference on Saturday, April 20, 2013 at the Cedar Mountain Lodge in Scurry, TX.
  - Nikki Dictson provided an hour long presentation at the Navarro County Riparian Grazing workshop on May 10<sup>th</sup>, 2013 and advertised the upcoming workshops.
  - Nikki Dictson provided a 15-20 minute presentation at the Plum Creek Watershed Partnership Meeting on May 2, 2013 in Lockhart to advertise.
  - TWRI will advertise the Riparian Workshops at the July 30, Texas Watershed Coordinators Roundtable Meeting.
- b. TWRI will continue to work on presentations of differing lengths about the program for advertising of the program.

#### **16% Complete**

*Task 2.9: TWRI/IRNR will coordinate annual 2-day agency trainings on assessing proper functioning condition with the NRCS State Riparian Service Team. These programs will provide detailed training on proper functioning condition for agency personnel including TPWD, NRCS, CEAs, TSSWCB, TXDOT, TCEQ, SWCDs, GLO, TWDB, River Authorities, USFWS, and NPS personnel.*

The following actions have been completed during this reporting period:

- a. TWRI discussed these professional trainings and it was well received by the planning team. Russell Castro mentioned that NRCS was in the process of reviewing and updating the materials to be able to have these in the future.
- b. TWRI talked with Janice Statts of the National Riparian Service Team on PFC trainings – they are also updating the materials of their training, but they are out of the Northeast.

#### **10% Complete**

*Task 2.10: TWRI/IRNR will coordinate two statewide riparian conferences in coordination with the Texas Riparian Association, professional organizations, River Authorities, or other entities annual meetings.*

The following actions have been completed during this reporting period:

- a. TWRI has initiated discussions on holding riparian talks at the annual meeting of the Texas Riparian Association and Texas Society for Ecological Restoration in November 2013.



- b. TWRI coordinated a Riparian Workshop for the Southwest US Stream Restoration Conference to be held in San Antonio on May 28. TWRI also co-sponsored the conference and was on the planning team for the conference and moderated a session on May 28-30, 2013.
- c. TFS attended the Riparian Workshop at the Southwest Stream Restoration Conference in May in San Antonio.

**10% Complete**

### **OBJECTIVE 3: CONDUCT DEVELOP WEB-BASED RIPARIAN EDUCATION PROGRAMS AND RESOURCES**

**To expand the reach and participation in the Riparian Education Program via web-based resources.**

*Task 3.1: Using non-federal funds from private foundations, the NRA will provide web-based, digital delivery of comprehensive riparian information through development of the Remarkable Riparian website. NRA will work with TWRI/IRNR and the Riparian Team to produce high quality audio-visual presentations, targeting both rural and urban audiences, for inclusion on the website. This will expand participation in riparian education programs by 1) supporting different adult learning styles and preferences, 2) providing flexible learning opportunities for interested citizens who have time and/or mobility constraints, and 3) enabling ready access to program resources statewide.*

The following actions have been completed during this reporting period:

- a. NRA has updated materials and links on the remarkableriparian.org multiple times during the quarter.
- b. NRA is working on updating YouTube educational materials for the website.

**24% Complete**

*Task 3.2: NRA will track usage of Remarkable Riparian website and report it with each quarterly report.*

The following actions have been completed during this reporting period:

- a. Visitation counter installed on remarkableriparian.org: had a total of 1,313 visits recorded this quarter, including 447 visits from 183 unique visitors in April, 419 in May with 161 unique visitors, and 447 visits in June with 177 unique visitors.
- b. Attended and recorded with video and sound the presentations at the Riparian Workshop in Lockhart on June 25, 2013.

**16% Complete**

*Task 3.3: The Nueces River Authority will also participate on Riparian Team assisting with development, marketing, and delivery of riparian landowner programs, annual conferences, and other trainings.*

The following actions have been completed during this reporting period:

- a. Attended the Riparian Workshop at the Southwest Stream Restoration Conference and the conference in San Antonio and provided Remarkable Riparian Books to attendees.
- b. Provided Remarkable Riparian Books to the attendees at the Lockhart Workshop.
- c. NRA provided the presentation on Lane's Balance as one of the three stops in the field at the Lockhart Workshop.
- d. NRA discussed strategies for development, marketing and delivery with TWRI during multiple calls and through correspondence during the quarter.

**16% Complete**

#### **OBJECTIVE 4: EVALUATE THE EFFECTIVENESS OF THE RIPARIAN EDUCATION TRAININGS AND WEB-BASED RESOURCES**

**To measure both knowledge and behavior changes of individuals participating in the program.**

*Task 4.1: TWRI/IRNR will conduct pre- and post-training evaluations (for both group instruction and web-based trainings) to assess increased knowledge of participants on the nature and function of riparian zones, their benefits, and BMPs for protecting them and minimize NPS pollution; to evaluate participant satisfaction with the program; and to evaluate participant's intentions to change their behavior as a result of the program. Additionally, TWRI/IRNR will deliver a follow-up assessment via email (6-month follow-up for both watershed-based and computer-based trainings) to ascertain behavior changes actually adopted by participants.*

The following actions have been completed during this reporting period:

- a. TFS sent TWRI a sample post forestry workshop evaluation form to measure participant understanding.
- b. TWRI has developed a set of questions based on the materials, a set of demographic questions and a survey of the program for the pre and post-surveys.
- c. TWRI conducted pre and post surveys at the Lockhart Workshop on June 25, 2013.
- d. The 6-month post survey is now being developed.

**24% Complete**

*Task 4.2: TWRI/IRNR will analyze results obtained from the pre-/post-tests and 6-month follow-up assessment using descriptive, correlational, and analysis of variances statistical procedures. Results will be used to periodically evaluate and modify riparian education program materials and incorporated into the final report.*

The following actions have been completed during this reporting period:

- a. Plum Creek Results will be analyzed and included in the next quarterly report.

## **2% Complete**

Expected Work for the Next Quarter:

- TWRI will continue to work on preparing educational materials for upcoming workshops.
- TWRI and NRA will continue to develop the websites for the program and the online educational tools.
- TWRI will compile the results of the evaluations for the Lockhart Workshop in June.
- TWRI will continue conducting presentations for a variety of audiences as needed.
- TWRI will continue contact with watershed coordinators to continue scheduling workshops across the state.
- TWRI will schedule a Riparian Planning Team Meeting to discuss and plan upcoming workshops.

***Appendix A: Lockhart Riparian Workshop Registration Form***

***Appendix B: Agenda's of Meetings Advertising Riparian Workshops***

***Appendix C: Initial Schedule of Watersheds for the Program***

***Appendix D: Lockhart Riparian Workshop and Sign-in Sheets***

***Appendix E: Lockhart Riparian Workshop Press Release and online RSVP***

## Appendix A: Lockhart Riparian Workshop Registration Form



### Texas Riparian & Stream Ecosystem Workshop Plum Creek Watershed

June 25  
8:00 a.m. - 4:00 p.m.

First Lockhart Baptist Church  
315 West Prairie Lea  
Lockhart, Texas 78644

**Online RSVP and Agenda:** [naturalresourcestraining.tamu.edu/schedule](http://naturalresourcestraining.tamu.edu/schedule)

For more information and to register please contact Nikki Dictson at 979-458-5915 or [n-dictson@tamu.edu](mailto:n-dictson@tamu.edu).

**Continuing Education Units available:** Texas Department of Agriculture Pesticide Applicators License – 3 CEUs; Texas Water Resources Institute – 1 CEU; Texas Nutrient Management Planning Specialists –6 hours; Texas Forestry Association –6 hours; Society of American Foresters –4.5 hours; Texas Board of Architectural Examiners “Acceptable for HSW credit”; and the program may also be used for CEUs for Professional Engineers.

The workshop will include both indoor classroom presentations and a field visit to stream sites in the afternoon. A catered Bar-B-Q lunch from Chisholm Trail is being sponsored by the Guadalupe-Blanco River Land Trust. RSVPs will be required by June 18, 2013 and please remember to select if you would like the catered lunch or if you will bring your own lunch and drink. To RSVP by mail, please complete the form below and send to 1500 Research Pkwy, Ste 110, College Station, TX 77843-2260.

First name: \_\_\_\_\_ Last name: \_\_\_\_\_

Email address: \_\_\_\_\_ Phone: \_\_\_\_\_

Org./Employer: \_\_\_\_\_ Lunch Options: ☐ I would like the catered lunch  
☐ I would like to bring my own



## Appendix B: Agenda's or Fliers of Meetings Advertising Riparian Workshops

### Riparian Grazing Workshop set for May 10 in Ennis



Effective land management links common goals in livestock, wildlife, and water resources such as the Trinity River, which supplies water to 40% of Texans. Riparian areas are highly valuable and sensitive areas and care should be taken when managing these areas. But riparian areas are rarely valued or managed for such benefits, and in some cases, erosion and loss of those benefits result.

Several agencies and organizations are teaming up to host a workshop to describe the value of riparian areas to landowners, and society as a whole. Presenters will also explain how these areas can be utilized by cattle while reducing erosion and benefitting water quality. Doing so will help landowners make decisions to protect natural resources for future generations. Morning presentations will be followed by an afternoon field tour to discuss riparian management in the field.

Topics addressed at this workshop include:

- Functions and Features of Riparian Areas
- Riparian Plants
- Grazing Management of Riparian Areas
- Field Tour



<b>Date:</b>	May 10, 2013
<b>Time:</b>	8 am – 3:30 pm
<b>Location:</b>	Cowboy Church of Ennis, 429 I-45 Frontage Rd, Ennis, TX

**3 Hours of TDA CEU's  
(1 General, 1 Drift, 1  
IPM)**

Cost is \$10 per person and includes a barbecue lunch.

RSVP to Blake Alldredge at [balldredge@tamu.edu](mailto:balldredge@tamu.edu) or 979.845.0916



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## R i p a r i a n V e g e t a t i o n W o r k s h o p

“Putting the 'green' into streambank stabilization”

**May 28, 2013  
1:30 - 5:00 p.m.**

- |                |  |
|----------------|--|
| 1:30-1:45 p.m. | Introduction [Gina Levesque, Oklahoma Conservation Commission]   |
| 1:45-2:20 p.m. | The Role of Riparian Vegetation [Steve Nelle, Retired NRCS Biologist]  |
| 2:20-2:55 p.m. | Challenges of Riparian Management and Restoration [Ken Mayben, NRCS Engineer]  |
| 2:55-3:10 p.m. | Break  |
| 3:10-3:55 p.m. | Incorporating Native Vegetation into Stream Restorations – techniques, materials, budgeting, monitoring, and maintenance [Sandi Formica, Watershed Conservation Resource Center] |
| 3:55-4:30 p.m. | Managing Invasive species [Chadwick Cox, Oklahoma Invasive Plant Council]  |
| 4:30-4:50 p.m. | Panel Discussion [Facilitator: Sharla Lovern, Oklahoma State University]   |
| 4:50-5:00 p.m. | Wrap-Up [Kevin Wagner, Texas Water Resources Institute]  |





**Plum Creek Watershed Partnership Steering Committee Meeting**  
**Thursday, May 2, 2013**  
**6:30 – 8:00 PM**  
**Lockhart State Park**

*Guided Nature Walk to begin at 5:45!*

**Agenda**

- 5:45 Guided Nature Walk (Meet at Lockhart State Park Recreation Hall)**
- 6:30 Meeting Overview & Introductions**
  - Nick Dornak, Plum Creek Watershed Coordinator
- 6:35 Watershed Coordinator Update**
  - Nick Dornak, Plum Creek Watershed Coordinator
- 6:50 Q&A with Plum Creek Watershed Project Specialists**
  - B.J. Westmoreland, Caldwell-Travis Soil and Water Conservation District
  - Jared Timmons, Texas A&M AgriLife Extension Service-WFSC
- 7:00 Roundtable Discussion and Steering Committee Member Updates**
  - Plum Creek Watershed Partnership Steering Committee
- 7:15 TWRI Riparian Workshops**
  - Nikki Dictson, Texas Water Resources Institute
- 7:30 Texas Well Owner Network Workshops**
  - Drew Gholson, Texas Well Owner Network
- 7:40 Plum Creek Water Quality Data**
  - Travis Tidwell, Meadows Center for Water and the Environment
  - Lee Gudgell, Guadalupe-Blanco River Authority
- 8:00 Adjourn**

**Next Meeting: Thursday, August 8, 2013**  
**Lockhart State Park**  
**Partnership/Steering Committee Meeting**  
**6:30 – 8:00 pm**



## *Appendix C: Initial Schedule of Watersheds for the Program*

### Texas Riparian and Stream Ecosystem Education Program

Watershed	Potential Month	Year	Watershed Coordinators	Affiliation	Counties
Plum Creek Watershed	25-Jun-13	2013	Nick Dornak	PCWP	Caldwell, Hays, and Travis Counties
Leon River	12-Sep-13	2013	Mike Marshall/ Dickie Clary	Hamilton County	Hamilton, Comanche and Coryell Counties
Upper Llano River watershed	October 16, 2013	2013	Tom Arsuffi	Texas Tech LRFS	Edwards, Kerr, Kimble, Menard, Real, and Sutton Counties
Geronimo Creek Watershed	September 17, 2013	2013	Ward Ling	AgriLife Extension	Guadalupe and Comal Counties
Buck Creek Watershed	Spring 2014	2013	Lucas Gregory	TWRI	Childress, Collingsworth and Donley Counties
Carters Creek	Spring 2014	2013	Lucas Gregory	TWRI	Brazos County
Lampasas River Watershed	Spring 2014	2014	Lisa Prcin	AgriLife Research	Hamilton, Lampasas, Mills, and Williamson Counties
Attoyac Bayou	Early 2014	2014	Lucas Gregory	TWRI	Rusk, Nacogdoches, San Augustine and Shelby Counties
Pecos River Watershed	Early 2014	2013	Lucas Gregory	TWRI	Crane, Crockett, Pecos, Reeves, Terrell, Upton, and Ward Counties
Big Cypress Creek Basin - LOP	mid 2014?	2014	Thomas/Dictson/Gregor	NETMWD/TWRI	Morris, Upshur, Cass, Marion, and Harrison
Cedar Creek Watershed	Discussing dates		Clint Wolfe	AgriLife Research	Henderson, Kaufman, Rockwall and Van Zandt Counties
Trinity River	Discussing dates		Blake Alldredge	AgriLife Extension	Middle Trinity Counties
Gilleland Creek	Discussing dates		Lauren Young	TCEQ	Travis County
Guadalupe River Above Canyon Lake	Discussing dates in 2014		Tara Bushnoe/Lauren Young	UGRA/TCEQ	Kerr, Kendall, and Comal Counties
Hickory Creek			David Hunter/Banks	City of Denton	Denton County
San Bernard River Watershed			Aubin Phillips	H-GAC	Austin, Colorado, Wharton, Fort Bend, and Brazoria Counties
Upper San Antonio River			Steve Lusk	SARA	Bexar County
Petronila Creek			Lauren Young	TCEQ	Kleberg and Nueces Counties
Concho River			Chuck Brown	UCRA	Tom Green County
Bastrop Bayou			Justin Bower	HGAC	Brazoria County
Lower Nueces			Rocky Freund	Nueces River Authority	Jim Wells, Nueces, and San Patricio Counties
Cedar Bayou			Justin Bower	H-GAC	Harris and Chambers Counties
Arroyo Colorado			Jaime Flores	TWRI	Cameron, Hidalgo, and Willacy Counties
Dickinson Bayou			Charriss York	AgriLife Extension	Brazoria and Galveston Counties
Double Bayou			Stephanie Glenn	Houston Advance Research Center	Chambers County

	Completed
	Tentative Schedule
	Tentative Month
	TBD
	To Be Contacted



## *Appendix D: Lockhart Riparian Agenda and Sign-in Sheets*

### Texas Riparian & Stream Ecosystem Education



### Draft Agenda

- 8:00 Meeting Registration
- 8:30 Workshop Introductions
- 8:35 Program Overview, Watershed Management and Water Quality
  - Nikki Dictson, Texas Water Resources Institute
- 9:00 Riparian and Watershed Management Principles
  - Steve Nelle, Retired USDA Natural Resources Conservation Service
- 9:45 Stream Processes and Cowboy Hydrology
  - Ryan McGillicuddy, Texas Parks and Wildlife Department
- 10:30 Break
- 10:45 Riparian Vegetation and Hindrances to Healthy Riparian Areas
  - Steve Nelle, Retired USDA Natural Resources Conservation Service
- 11:30 Management Practices and Local Resources
  - Nikki Dictson, Texas Water Resources Institute
- 12:00 Lunch
- 12:15 Lunch time Presentation
- 1:15 Questions and Complete Post Survey
- 1:30 Trip to the River for Stream Walk (If large group split into 2 or more groups)
  - Lane's Balance Demonstration Activity
  - Agricultural Nonpoint Source Incentive Programs
  - Feral Hog Education: Jared Timmons, Texas A&M AgriLife Extension
  - Photo Monitoring of stream locations: Dictson, TWRI
- 4:00 Wrap up and Head for Home!

<http://texasriparian.org/>

and <https://www.facebook.com/TexasRiparianAssociation>



Texas Riparian and Stream Ecosystem Course

35	Dave	Mauk	Bandera County River Authority & Groundwater District	DMauk@bcragd.org
36	Delane	Mayfield	River Land Owner	delane@axs4u.net
37	Ryan	McGillicuddy	TPWD	ryan.mcgillicuddy@tpwd.state.tx.us
38	Allen	McReynolds	Mitigation Strategies, LLC	mitigationstrategiesllc@gmail.com
39	Isidro	Morales	USDA-NRCS	isidro.morales@tx.usda.gov
40	Catherine	Nash	USDA - NRCS	catherine.nash@tx.usda.gov
41	Abigail	Nebb	GBRA	arnebb5@gmail.com
42	Steve	Nelle		nelleangelo@suddenlink.net
43	Jeff	Paull	TCEQ	jeff.paull@tceq.texas.gov
44	Meghan	Pawlowski	TxDOT	Meghan.Pawlowski@txdot.gov
45	Lauren	Pulliam	TPWD	beth.bendik@tpwd.texas.gov
46	Beth	Ramey	Hays County Master Naturalist	bramjet@austin.rr.com
47	Michael	Redman	Bandera County River Authority & Groundwater District	MRedman@bcragd.org
48	Steve	Riggs	Texas State University	sr1225@txstate.edu
49	Tom	Roach		edison.roach@yahoo.com
50	Kayla	Rohrbach	Bandera County River Authority & Groundwater District	KRohrbach@bcragd.org
51	Olivia	Sanchez	TPWD	beth.bendik@tpwd.texas.gov
52	Hughes	Simpson	TFS	HSimpson@tfs.tamu.edu
53	Kimberly	Sticher	Hays Central Appraisal District	ksticher@hayscad.com
54	Cinde	Thomas-Jimenez	Guadalupe-Blanco River Authority	cthomas-jimenez@gbra.org
55	Jared	Timmons	Texas AgriLife Extension Service	jtimmons@ag.tamu.edu
56	Travis	Tindell	GBRA	tindell0@sewanee.edu
57	Erin	Underwood		saraleeu@gmail.com
58	Erin	Valley	TPWD	beth.bendik@tpwd.texas.gov
59	Rebecca	Vignali	student	zWolffy424@gmail.com
60	Todd	Votteler	GBRA/GBRT	tvotteler@gbra.org
61	Janet	Wagner	J K Wagner & Company, Inc. ✓	jkwco@yahoo.com
62	Susie	Ward	Texas Master Naturalists	Wardinola@yahoo.com
63	BJ	Westmoreland	Caldwell / Travis SWCD	Bradford.Westmoreland@tx.nacdn
64	Brittany	Wilson	Terracon	bbwilson@terracon.com
65	Elizabeth	Wymmer		elizabeth.wymmer@yahoo.com
66	Marcy	Youngman	Texas Master Naturalist	fhyoungman@hotmail.com
67	Nikki	Hise	TWDB	Nicki.Hise@twdb.texas.gov
68	Alan	Butler	TPWD	alan.butler@texas.gov
69	Rosario	Amaya		agentofchange23@yahoo.com

Dianna Tupa Biologist, Botanist, Phycologist  
 June 25, 2013  
 Colton Winkler (Algalogist)  
 PT  
 CW

agent of change 23@yahoo.com

Texas Riparian and Stream Ecosystem Course

Sign In	#	First	Last	Agency/Organization	Email
<i>Howard Berg</i>	1	Howard	Berg		mtb156@gmail.com
	2	Maria	Berg		mtb156@gmail.com
<i>Blanchard</i>	3	Janna	Blanchard		JaBlanch@aol.com
<i>James</i>	4	James	Braden	Hayes County Parks	james.braden@co.hays.tx.us
<i>Anju</i>	5	Anju	Chalise	Texas Commission on Environmental Quality	anju.chalise@tceq.texas.gov
<i>Lee</i>	6	Lee	Charlton	Ironbridge Farm	ironbridge1121@gmail.com
<i>Duncan</i>	7	Duncan	Charlton	Ironbridge Farm	ironbridge1121@gmail.com
<i>Danielle</i>	8	Danielle	Cioce	Harris County Watershed Protection Group	danielle.cioce@hcpid.org
<i>Melissa</i>	9	Melissa	Cole		meliscole@gmail.com
<i>Nikki</i>	10	Nikki	Dictson	TWRI	n-dictson@tamu.edu
<i>Bert</i>	11	Bert	Diezinger		BDier@aol.com
<i>Nick</i>	12	Nick	Dornak	Plum Creek Watershed Partnership	ndornak@plumcreekwatershed.org
<i>Judy</i>	13	Judy	Elliott	Hayes County Master Naturalist	jaelliottmail@yahoo.com
<i>Fred</i>	14	Fred	Emory		fredrick.emory@sbcglobal.net
<i>Bill</i>	15	Bill	Evans	GBRA	bill.evans58@yahoo.com
<i>Karen</i>	16	Karen	Ford	WaterPR	kford@waterpr.com
<i>Troy</i>	17	Troy	Freeman	Caldwell / Travis SWCD	troya.freeman@yahoo.com
<i>Paul</i>	18	Paul	Fuentes	Texas Parks and Wildlife Dept.	paul.fuentes@tpwd.state.tx.us
<i>Wesley</i>	19	Wesley	Gibson	TSSWCB	wgibson@tsswcb.texas.gov
<i>Jeremy</i>	20	Jeremy	Gonzalez	Hayes County Parks	jeremy.gonzalez@co.hays.tx.us
<i>Miriam</i>	21	Miriam	Hall		haranch@aol.com
<i>Lori</i>	22	Lori	Hazel	Texas A&M Forest Service	lhazel@tfs.tamu.edu
<i>Matt</i>	23	Matt	Heinemann	Conservation Consultancy	love4water@gmail.com
<i>Philip</i>	24	Philip	Hicks		philip.hicks369@gmail.com
<i>Patrick</i>	25	Patrick	Jacobs	Terracon	wjacobs@terracon.com
<i>Nathan</i>	26	Nathan	Johnson	Texas State University	nkurtjohnson@gmail.com
<i>Jennifer</i>	27	Jennifer	Kennedy	Texas Water Development Board	Jennifer.Kennedy@twdb.texas.gov
<i>Sandy</i>	28	Sandy	Kosarek	Countywide Realty	sandy@countywidere.com
<i>Aye</i>	29	Aye	Kyi		aye_kyi@hotmail.com
<i>Sky</i>	30	Sky	Lewey	Nueces River Authority	slwey@nueces-ra.org
<i>Jana</i>	31	Jana	Lloyd	TSSWCB	jilloyd@tsswcb.texas.gov
<i>Jenna</i>	32	Jenna	Lueg	TCEQ	Jenna.Lueg@tceq.texas.gov
<i>Stacy</i>	33	Stacy	Marcus	Texas Master Naturalists CAMN	reaglebeagle00@yahoo.com
<i>Robert</i>	34	Robert	Martinez	USDA/NRCS	robert.martinez@tx.usda.gov

June 25, 2013

64 total

## riparian and stream ecosystem education program

[texasriparian.org](http://texasriparian.org)

Texas has more than 200,000 miles of streams and riparian areas—the green vegetation zones along streams, rivers and lakes—that provide great economic, social, cultural and environmental value to the state. These ecosystems play an important part in the water issues that face Texans today and in the future.

Management of watersheds, riparian areas and streams directly influences water quality and quantity, peak and base flow rates of streams and rivers, and recharge to aquifers and lakes. For example, how much rainfall runs off and how fast it runs off the land depend on the amount and type of vegetation, soil type, slope, intensity and duration of rainfall and land management. Properly functioning riparian areas are highly beneficial buffer zones that provide recreation, fish and wildlife habitat, increased water supply and improved water quality by filtering debris and pollution. A healthy watershed maintains high quality water for aquatic ecosystems, downstream users and coastal wetlands and estuaries.

Riparian and stream ecosystem degradation is common in Texas rural and municipal landscapes due to natural and human-induced disturbances. Increases in human population along with industrial, commercial and residential development place heavy demands on stream corridors. In many cases, riparian areas are purposely degraded or channelized to allow stormwater to move quickly downstream to reduce local flooding. These degraded and/or

channelized riparian areas reduce the recharge of groundwater and base flow and increase the frequency of flooding. Excessive flows from poor management upstream can degrade otherwise healthy riparian zones downstream. Many cities have found that improving creek and floodplain protection is needed to prevent unsustainable public expense to maintain drainage infrastructure.

It is important to monitor the health of streams to protect, maintain and restore healthy riparian and stream ecosystems in Texas. Proper management, protection and restoration of riparian areas will decrease bacteria, nutrient and sediment loadings to water bodies; lower instream temperatures; improve dissolved oxygen levels; and stabilize banks, reducing erosion and protecting ownership boundaries and land values. Healthy riparian areas will also have fewer invasions of exotic undesirable riparian species, improved aquatic habitat and improved fish and aquatic communities.

Riparian education programs are needed to improve the management of these sensitive and vital ecosystems. Through the [Texas Riparian and Stream Ecosystem](http://texasriparian.org)



texas **water** resources institute

[twri.tamu.edu](http://twri.tamu.edu)



# riparian and stream ecosystem education program

**Education Program.** partners and staff will deliver educational workshops about the nature and function of riparian zones and vegetation. The workshops will also cover local technical resources and best management practices (BMPs). Through education, landowners and other citizens can improve their management of riparian and stream ecosystems, which will reduce nonpoint source pollution (NPS) and provide tremendous ecosystem service benefits and direct economic benefits to communities.

## Objectives

- Promote healthy watersheds and improve water quality through riparian and stream ecosystem education programs with a focus on priority watersheds
- Increase citizen awareness, understanding and knowledge of the nature and function of riparian zones, their benefits and BMPs to protect them and minimize NPS pollution
- Enhance interactive learning opportunities for riparian education across the state and establish a larger, more informed citizen base working to improve and protect local riparian and stream ecosystems
- Connect landowners with local technical and financial resources to improve management and promote healthy watersheds and riparian areas on their land

## Collaborators

- Texas Water Resources Institute
- Texas State Soil and Water Conservation Board
- Texas Riparian Association
- Texas A&M Forest Service
- Texas Parks and Wildlife Department
- USDA Natural Resources Conservation Service
- Nueces River Authority
- Texas A&M AgriLife Research, Ecosystem Science and Management Department
- Texas Tech University Llano River Field Station

## Funding Agencies

- Texas State Soil and Water Conservation Board
- U.S. Environmental Protection Agency



Texas Water Resources Institute  
1500 Research Parkway, Suite 110  
2260 TAMU  
College Station, TX 77843-2118  
979.845.1851 (T)  
twri@tamu.edu

make every drop count [twri.tamu.edu](http://twri.tamu.edu)



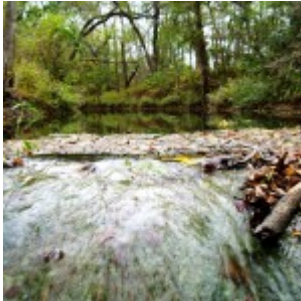
## *Appendix E: Lockhart Riparian Workshop Press Release and online RSVP*

By: Paul Schattenberg, 210-467-6575, [paschattenberg@ag.tamu.edu](mailto:paschattenberg@ag.tamu.edu)

Contacts: Nikki Dictson, 979-458-5915, [n-dictson@tamu.edu](mailto:n-dictson@tamu.edu)

Michael Haynes, 512-398-3122, [michael.haynes@ag.tamu.edu](mailto:michael.haynes@ag.tamu.edu)

LOCKART—The Texas Riparian and Stream Ecosystem Education Program will present its first workshop in the Plum Creek watershed on June 25 in Lockhart, said Nikki Dictson, Texas Water Resources Institute project manager and program coordinator, College Station.



The first no-cost riparian and stream ecosystem management workshop will be held on June 25 at First Lockhart Baptist Church, 315 W. Prairie Lea in Lockhart. (Texas A&M AgriLife Extension Service photo)

The no-cost educational program on how streams function and the role of vegetation in properly functioning stream systems will take place from 8 a.m.–4 p.m. at First Lockhart Baptist Church, 315 W. Prairie Lea.

“Riparian education programs like this lead to informed landowners and members of the public more inclined to use practices that improve the management of riparian and stream ecosystems,” Dictson said. “Proper management, protection and restoration of these vital areas directly influences water quality and quantity, plus stabilizes stream banks, and improves fish and aquatic habitats, communities and more.”

The program is managed by the [Texas Water Resources Institute](#), part of [Texas A&M AgriLife Research](#), [Texas A&M AgriLife Extension Service](#) and the [College of Agriculture and Life Sciences](#) at [Texas A&M University](#). It is funded through a Clean Water Act grant provided by the Texas State Soil and Water Conservation Board and U.S. Environmental Protection Agency. Plum Creek, a 52-mile stream in Central Texas, is a focus of watershed planning efforts by stakeholders. The Plum Creek Watershed Partnership has been working to implement a watershed protection plan developed for Plum Creek in 2008.

The riparian and stream workshop is another educational event to support this effort, said Michael Haynes, AgriLife Extension agent for Caldwell County.

Dictson said the workshop will include indoor classroom presentations by representatives from AgriLife Extension, the Texas Parks and Wildlife Department, Texas A&M Forest Service, U.S.

Department of Agriculture Natural Resources Conservation Service and Guadalupe-Blanco River Land Trust.

The Guadalupe-Blanco River Land Trust will sponsor a catered barbecue lunch from Chisholm Trail Bar-B-Que.

The afternoon will include a field visit to stream sites.

Participants must RSVP by June 18. To register online, go to:  
<http://naturalresourcestraining.tamu.edu/schedule>.

The workshop offers three continuing education units — two general and one integrated pest management — for Texas Department of Agriculture pesticide license holders. It offers one unit from the Texas Water Resources Institute, six hours for Texas Nutrient Management Planning specialists, six hours from the Texas Forestry Association, and 4.5 hours from the Society of American Foresters. The program is acceptable for health, safety and welfare credit from the Texas Board of Architectural Examiners and may also be used for continuing education units for professional engineers.

For more information or to RSVP, contact Dictson at 979-458-5915 or [n-dictson@tamu.edu](mailto:n-dictson@tamu.edu) or visit [texasriparian.org](http://texasriparian.org).

-30-

Find more stories, photos, videos and audio at <http://today.agrilife.org>

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## Natural Resources Training Program

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### Texas Riparian & Stream Ecosystem Workshop - Plum Creek Watershed

June 25, 2013

[Agenda](#)   
[Flyer](#) 

First Lockhart Baptist Church  
315 West Prairie Lea  
Lockhart, Texas 78644 [map](#)

Please complete the form below to RSVP for the Texas Riparian and Stream Ecosystem Workshop, June 25, 2013 at the First Lockhart Baptist Church.

A catered lunch from Chasim Trail is being sponsored by the Guadalupe-Blanco River Land Trust. Please select if you would like the catered lunch or if you will bring your own lunch and drink.

For more information or questions please contact Nikki Didson at 979-459-5915 or [n-didson@tamus.edu](mailto:n-didson@tamus.edu)

#### Personal Information

First name:

Last name:

Email address:

Phone:

Organization/Employer:

Lunch:

I will have lunch on my own 

RSVP