

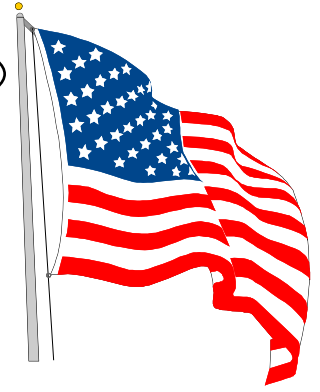


SOUTH DAKOTA LAKES AND STREAMS

SPLASH

Volume 7 Quarterly Issue 4

Winter, 2010



18th ANNUAL MEETING 9/11/2010 A SUCCESS Watershed Management Forum Well Attended

On September 11, 2010, Bramble Park Zoo & Discovery Center hosted the SDL&SA's Annual Meeting and Watershed Management Forum. Several displays complete with balloons adorned the conference room. A tour of the zoo was led by Dan Miller, curator. Lunch was catered by The Wheel Inn. Pastry and beverage breaks were served between Forum presentations. Four professional and diverse talks were well attended. Following photos depict the essence of the activities of the day.

18th Annual Meeting and Watershed Management Forum

F.P.

Watershed Management Forum

A

ASSOCIATION NEWS & GRANT WRITING WORKSHOP

B

STATE ASSOCIATION NEWS (Pondweeds)

C

THINK ZERO BASED LAWN FERTILIZER

D

NATIONAL NEWS

E

NATIONAL NEWS & MORE

F

Watch for more in the Spring, 2011 SPLASH



Displays at the Watershed Management Forum



DWW Display: Making Time for Monitoring



Touring the Bramble Park Zoo, courtesy of the Curator, Dan Miller;



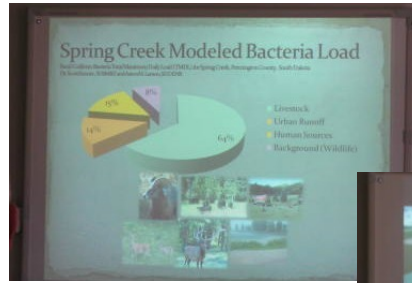
The Bramble Park Zoo and Discovery Center is the new home of The Upper Big Sioux River Watershed headquarters.

South Dakota Lakes and Streams *SPLASH*

SECTION A: Association News: Annual Meeting continued



George Zimmerman, Black Hills RC&D, presented their Spring Creek modeled Bacterial Load & the Pine Beetle infestation,



Left: Spring Creek Project: Zimmerman presentation.

Right: Virtual tour of the Upper Big Sioux Watershed: Foote presentation (lower left)



Above: Visuals of the Zimmerman and Foote presentations.



Roger Foote's "Virtual Tour of the Upper Big Sioux Watershed"



Jay Gilbertson's presentation on Dakota Water Watch. "Why Test Your Water?"



Joe Beech's presentation on "Lake Restoration" using Lake Hendricks as a model project.

Twenty-seven participants took part in the "Forum".
A common request of the Forum discussion was information about "Aquatic Weed Harvesters". We had hoped to have a representative from Aquarius Systems to field questions, but they were unable to attend.
Our consultant, Joe Beech, left photo, will be available to serve our Lake Association constituents.

South Dakota Lakes and Streams *SPLASH*

SECTION B: Association News & Grant Writing Workshop

Election of Vacancies on the Board of Directors for 2011.

There was one nominee for the vacant position on the Board of Directors. Jim Hawke, Rapid Creek Preservation Association, was elected to serve as our West River Representative. He will join us at our Board meetings through a teleconference call. WELCOME!! How can we go wrong with this kind of lover of our water resources.



Other vacancies had no nominees. At the October meeting, no decision was made, so the resignation of the president was rescinded for the immediate future. He will serve as president *pro temp* until the position is filled. The resignation of the position of secretary was requested by the VP who was serving as secretary *pro temp*. Since the president was willing to serve as secretary *pro temp* until a secretary could be named, the secretarial position is still in limbo. Hopefully, these positions will be filled in the near future. **ED**

Ardis Neish was honored at our October meeting.



A GIFT FOR A WILLING GIVER

Ardis Neish, has an exemplary record of contributions to SDL&SA since she joined the Board of Directors. Here is a brief chronology.

1986: South Dakota Save Our Lakes was incorporated

1992: South Dakota Lakes and Streams Association incorporated through a Certificate of Amendment

1993: Ardis Neish, from Brant Lake, was elected as a member of the board of directors, following a career as an elementary teacher.

1994: She was named National Coordinator, representing SDL&SA at North American Lake Management Society, a national lake organization.

1998: Ardis was named secretary of SDL&SA board of directors.

2010: Ardis resigned as secretary of SDL&SA board of directors after 4 years as National Coordinator and 12 years as secretary, serving 17 years, during all but the first year of the existence of South Dakota Lakes & Streams Association, Inc.

Ardis is still an active member of our board of directors.

Thank you, Ardis, for your faithful service on the SDL&SA Board of Directors as our secretary.

GRANT WRITING WORKSHOP PLANNED

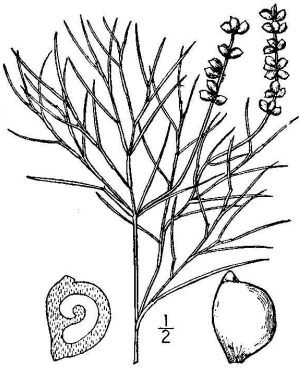
One of the issues that comes up whenever there are plans for restoration or preserving lakes, lakeshores, stream banks, water quality in recreational waters, etc., is: "Where are funds available and how do we construct grants to apply?" SDL&SA's consultant is aboard to supply guidance in addressing issues of how to accomplish goals. But knowing how to write grants to apply for funding to help toward successful outcomes is up to the Association involved in the project.

SDL&SA is planning to sponsor a grant-writing workshop for Spring, 2011. It will be offered through the Lake Area Technical Institute Corporate Training Office, Watertown, SD. It will be a 4 hour workshop covering grant writing basics, including sources, how to write the proposal, helpful websites, etc. A specific date for the workshop is yet to be determined, as is the fee for the workshop. Watch for an announcement on our website: www.sdlakesandstreams.com. **IF YOU ARE INTERESTED IN ATTENDING, PLEASE LET ME KNOW IN YOUR LETTER RETURNING YOUR MEMBERSHIP DONATION AND STATEMENT OF SUPPORT FOR THE 0-B-P BILL.** POTENTIAL ATTENDEES WILL BE NOTIFIED

South Dakota Lakes and Streams *SPLASH*

SECTION C: Statewide News.

From the SDSU Biology Department
Herbarium Curator, Dr. Gary Larson

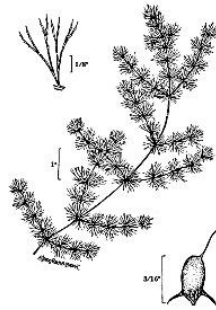


Above: Graphic representation; upper right, photo of seed clusters; right, photo of plant. *****

Most of the vegetation that has been washing up on Lake Poinsett shoreline most of the summer is Sago Pondweed, *Stuckenia pectinata*. There is also quite a bit of Widgeongrass, *Ruppia cirrhata* (pictured below).



Oakwood Lakes, on the other hand, is more likely to have Coontail or Hornwort (*Certophyllum demersum*).



ED. Although these pondweeds found in great abundance on many of our Glacial Lakes, are a nuisance for anglers and recreational swimmers, they make great habitat for game fish, and absorb large quantities of phosphorus. Water clarity was a well-known fact during the time of low water levels. The pondweeds did well, and kept algal blooms at a minimum. During the high waters of Spring and Summer, much of the pondweed washed up on shorelines, creating unsightly and unsavory conditions. If the debris was not carried away for compost piles, for example, the breakdown of the weeds would release phosphorus back into the lake. Good water quality has subsisted during the summer, and fishing has been above average. Unfortunately, the water levels going into winter will be above normal. On Lake Poinsett, water will likely move in through the inlet and out through the outlet all winter. Expectations for Spring can only be at the whim of Mother Nature, but low lake levels is not a likely outcome for the unforeseeable future.

South Dakota Lakes and Streams *SPLASH*

SECTION D: 0-Based-Phosphorus

THINK ZERO (0):

Ken Madison, DENR Environmental Program Scientist, submitted a Phosphorus Ban Literature Review to Environmental Senior Scientist, Pete Jahraus, Watershed Protection, Pierre, SD DENR. That, as well as many other citations from Ken, has been used as background to support the need to introduce bills to the S.D. Legislature to mandate the use of 0-based-Phosphorus in retail products in S.D.

In an August 2, 2010 letter from the Director, Ecosystems Protection Program, EPA Region 8, Mr. Garcia gave their support to SDL&SA's attempt to introduce 0-based P in lawn fertilizer as default in retail stores in S.D.

The above literature, as well as SDL&SA's files containing the need to substitute 0-based P in products currently being sold with varying amounts of phosphorus as default in retail stores in many states. Bills mandating 0-based P in lawn fertilizers and laundry detergents from MN and WI were used as guidelines for drafts of bills to be submitted by SDL&SA to the S.D. Legislature.

At our SDL&SA Annual Meeting and Watershed Management Forum, held 9/11/2010 at the Bramble Park Zoo in Watertown, there was unanimous support to move forward to submit bills to our legislators.

Time to develop all the details involved in getting a final draft of bills to legislators is too short to introduce them at the 2011 legislative session. The current plan is to get all details addressed during the year 2011 for a draft of the 'fertilizer bill' to be submitted for consideration at the 2012 legislative session, and details during the year 2012 for a draft of the 'laundry detergent bill' to be submitted at the 2013 session.

Letters received from all Water-related agencies, for whom addresses are available, requesting their support will be tallied and used to support the drafts of these bills that will be sent to legislators. Articles will be sent to state-wide newspapers, interviews will be planned over local and S.D. public radio stations, and TV interviews will be planned through the SD Public Broadcasting. Our SPLASH and website will carry promos of the need for the bills, and progress of public reaction.

SDL&SA is planning to sponsor a grant-writing workshop for Spring, 2011. It will be offered through the Lake Area Technical Institute Corporate Training Office, Watertown, SD. It will be a 4 hour workshop covering grant writing basics, including sources, how to write the proposal, helpful websites, etc. (see p. 3).

MEMBERSHIP DONATIONS DUE BY JANUARY.
Please support our efforts to protect and preserve our SD Waterways. We also ask that you send in your support for our plan bills to the South Dakota Legislature mandating 0-based-P products in lawn fertilizer, sold as the default product in retail stores.
Refer to the letter to all who receive this issue

THINK ZERO



0

P

South Dakota Lakes and Streams *SPLASH*

SECTION E: National News

Earthjustice President's Comments

The following are *selected* comments from an e-mail dated Thursday, November 04, 2010 from Trip Van Noppen, President, Earthjustice:

When overzealous legislators prevent environmental agencies from doing their jobs, Earthjustice kicks into action as they so often have in the past. Over the next two years, Earthjustice will continue to work in the courts, make use of strong partnerships with client groups, and apply savvy lobbying and communications skills, to:

- * Defend EPA's early actions to reduce greenhouse gas emissions that are driving climate change.
- * Push EPA forward and defend its actions in finalizing new rules that will clean up or retire hundreds of dirty coal-fired power plants across the country.
- * Prevent oil development in the Alaskan Arctic Ocean.
- * Force public disclosure about and seek better health-based controls on toxic chemicals we are exposed to every day.
- * Protect national forest roadless areas and our other public lands.
- * Keep basic endangered species protections in place so long as needed for wolves, grizzly bears and many other treasured species.
- * Prevent overfishing of our oceans and restore fish and other marine species to sustainable levels.

These and many other issues are the heart of our work -- just as supporters are the heart of Earthjustice.

ED. *If you would like to support their cause in particular environmental issues that concern you, Earthjustice sends notice to your SPLASH editor of an issue they are pursuing and asks for your support through a letter they have constructed, that you may send to a congressional address. I will print their letters on our website, www.sdlakesandstreams for your download.*

Fracking: Hydraulic Fracturing.

What is it?

Fracking is currently used in 90 percent of the nation's natural gas and oil wells. The practice makes drilling possible in areas that 10 to 20 years ago would not have been profitable. Fracking involves injecting water, sand, and a cocktail of chemicals at high pressure into rock formations thousands of feet below the surface. This opens existing fractures in the rock and allows gas to rise through the wells.

Many of the chemicals used in shale gas drilling are hazardous. Long-term exposure to such chemicals can have serious health consequences. A recent study conducted by Theo Colburn, PhD, the director of the Endocrine Disruption Exchange in Paonia, Colorado, has so far identified 65 chemicals that are probable components of the injection fluids used by shale gas drillers. These chemicals included benzene, glycol-ethers, toluene, 2-(2-methoxyethoxy) ethanol, and nonylphenols. All of these chemicals have been linked to health disorders when human exposure is too high.

Because the federal Energy Policy Act of 2005 exempted hydraulic fracturing from regulation under the Safe Drinking Water Act, shale gas drillers don't have to disclose what chemicals they use.

Communities Damaged by Fracking

People living in the vicinity of shale gas drilling have reported foul smells in their tap water. In some instances gas well pipes have broken, resulting in leakage of contaminants into the surrounding ground.

Dimock, Pennsylvania, for example, has been devastated by fracking. In some cases, levels of methane in some Dimock water wells are so high that homeowners are able to set water aflame as it comes out of their taps. Texas' Barnett shale region is another area where fracking is booming. In June 2010, tests by the Texas Railroad Commission showed arsenic, barium, chromium, lead and selenium in a residential water well in Dish, Texas.

Earlier this decade, the Canadian drilling company began gas development in the Pavillion/Muddy Ridge field of Wyoming. In the summer of 2010, the majority of Pavillion residents who participated in a health survey reported respiratory problems, headaches, nausea, itchy skin, dizziness and other ailments. Many residents also reported that their well water was tainted by fracking. Such reports don't even begin to tell the whole story of the damage fracking has done to communities and the environment across the country. (taken from Parker, Waichman, Alonso, LLP)

South Dakota Lakes and Streams *SPLASH*

SECTION F: Association News (continued)

ALERT! Please read and send requested information to **G.A.Myers, president, SDL&SA, 228 East Lake Drive, Estelline, SD 57234, along with your membership donation.**

To: All individuals and organizations that are supportive of the legislative mandate to make 0-based-Phosphorus lawn fertilizer a default in retail stores in South Dakota.

From: The President, SDL&SA

Please read the article on p. 5 of this issue. I am asking all that receive and read this request to send in a letter supporting a bill to be submitted to the SD Legislature mandating 0-based-P to be sold in retail stores in SD.

The Fall, 2010 SPLASH discusses information on the negative effect of phosphorus on aquatic ecosystems. Access to this issue can be gained on our website: www.sdlakesandstreams.com. Tab News. Tab e-SPLASH. Fall, 2010.

If we can get letters from each recipient supporting this important project, it will go a long way to gaining legislative support. If you know of someone who may not have received this issue, please notify them to send in their support. For agencies, the number of members this agency represents would be very helpful.

Thank you in advance for your support. If you would send in a statement of support with your membership donation, it would give us a head start on getting our “info-mercials” in the works, preferably before the first of the year, 2011.

GAM

BREAKING LAND OR ALTERING WETLANDS?

(from Beadle Conservation District Newsletter, Fall, 2010.)

As farmers prepare for and complete harvest this fall, farmers should be cautious with draining, altering, or filling wetlands in their fields (Vickers). Eligibility for USDA farm program benefits could be at stake.

What constitutes altering a wetland?

- Digging a new ditch or increasing depth/width.
- Wheel track drainage.
- Adding fill material to wetlands.
- Dredging, Leveling, Altering flows
- Adding new tile lines, removal of woody plants.

The Mountain Pine Beetle in the Black Hills.

(Jim Hawke, President, Rapid Creek Preservation Association e-mail to SDL&SA president 11/16/2010)

The Rapid Creek Preservation Association meeting scheduled for Dec 4, will high-light some of the perils that the Mountain Pine Beetle will have on the Black Hills. The impact it will have on our streams and Lakes through tree loss in the watersheds will be truly astronomical. In Canada and Colorado they call the infestation Red death also sometimes called ‘tree killer’. The latin name for the Mountain Pine Beetle is (*Dendroctonus ponderosae*). US Forest Service scientists and entomologists predict this cyclical infestation in the Black Hills will prove to be the worst infestation in the past 100 years. The economic impacts will be staggering and it is already spreading in the Hills at a very rapid pace. We will be working in coalition with State and Federal Agencies for more funding, the Forest Industry to step up the thinning process, and with local Landowners and Home owners to recognize the problem and put legs to the solution. (from Jim Hawke e-mail)



Hosts: Lodgepole pine, ponderosa pine, western white pine, whitebark pine. **Quick ID:**

- Egg galleries long and straight, with the grain (vertical) Larval galleries at 90 angle from egg gallery. Yellow pitch tubes on trunk; Red boring dust in bark crevices; Pitch streamers on trunk; Foliage discolored



Adult *Dendroctonus* (left) versus *Ips* (right). Note gradually curved wing of *Dendroctonus*. Actual size of *Dendroctonus* from 1/8 to 1/3 inch, *Ips* 1/3 to 1/4 inch.

Periodic outbreaks of the insect, previously called the Black Hills beetle or Rocky Mountain pine beetle, can result in losses of millions of trees. Outbreaks develop irrespective of property lines, being equally evident in wilderness areas, mountain subdivisions and back yards. Even windbreak or landscape pines many miles from the mountains can succumb to beetles imported in infested firewood.

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Bill Cunningham,

Vice President & Secretary *Protemp*

Ken Stange, Treasurer



PLEASE NOTE THE 2011 MEMBERSHIP DONATIONS ARE DUE JANUARY 1. SDL&SA APPRECIATES AND NEEDS YOUR SUPPORT TO FURTHER OUR GOALS TO OBTAIN AND KEEP S.D. WATER QUALITY HIGH.

Our ongoing quest to protect, preserve, and enhance South Dakota's Waterways is through education and networking. We serve as a clearinghouse of information and activities of our member associations at our website. Our consultant will be on board to help associations address their needs to enhance their Water Resource.

Our membership donations haven't changed in these times of rising prices. We still welcome new members and cherish those who have stayed with us over the years. A donation to the Corother's Clean Water Foundation will support worthwhile educational activities of SDL&SA. And, yes, all donations are tax deductible.

Send your donations to SDL&SA, 228 East Lake Drive, Estelline, SD 57234.

