



SOUTH DAKOTA GAME, FISH and PARKS



Shoreline Restoration Program



Importance of Natural Functioning Shorelines



Why should we care?

- Most lakes have lost up to 90% of their functioning habitat
- Loss of shoreline habitat leads to highly erodible shorelines leading to increased silt load entering the lake
- Several water quality problems
 - Increased phosphorous levels
 - Increased frequency and intensity of algae blooms
 - Increased frequency of fish kills – winter and summer





What Can We Do?

- Is it too late? Absolutely NOT!
- First step is to take a look at and evaluate.
- Second step is to educate, realize the importance of the resources we love and admit we are destroying them.
- Third step is to start networking and building partnerships.
- Final step is to start making the changes, putting sweat on the ground.



GFP Shoreline Restoration Process



- Contact Game Fish and Parks
- Site Visit
- Define the restoration area
- GFP Biologist determines plant species list that is best suited for the site – based on soil types, sunlight duration, availability
- GFP Biologist determines best planting method – all seeds, live plant plugs, or combination of the two
- GFP Biologist & Land Owner determine who will be responsible for prepping the site and what the best method will be
- Currently GFP has been providing all seed and plant material
- Landowner is responsible to provide as much help / labor as possible for day of planting
- Landowner is responsible for maintenance such as watering and weeding
- Landowner agrees to allow us to show the project to others



Sample Project – Pelican RA

- 450 linear foot of shoreline near the boat ramp at Pelican RA
- Shoreline was stabilized with rock due to erosion
- Area above the rock was 100% Kentucky Blue Grass
- Area was just mowed because it was there, not utilized
- Decided to turn 30 foot width of this stretch of shoreline into a shoreline restoration project
- Benefits:
 - Turn area back into natural shoreline habitat
 - Use area for outdoor education – naturalist area
 - Utilize an area that was not really serving a purpose
 - Use the area as a focal project – demonstrate what can be done
 - Improve water quality of Pelican Lake, protect from future flooding

Pelican Lake RA Shoreline Before



05/04/2015

Pelican Lake RA Shoreline Project



Pelican Lake RA Shoreline Project



06/17/2015



06/17/2015

Pelican Lake RA Shoreline Project



Pelican Lake RA Shoreline Project

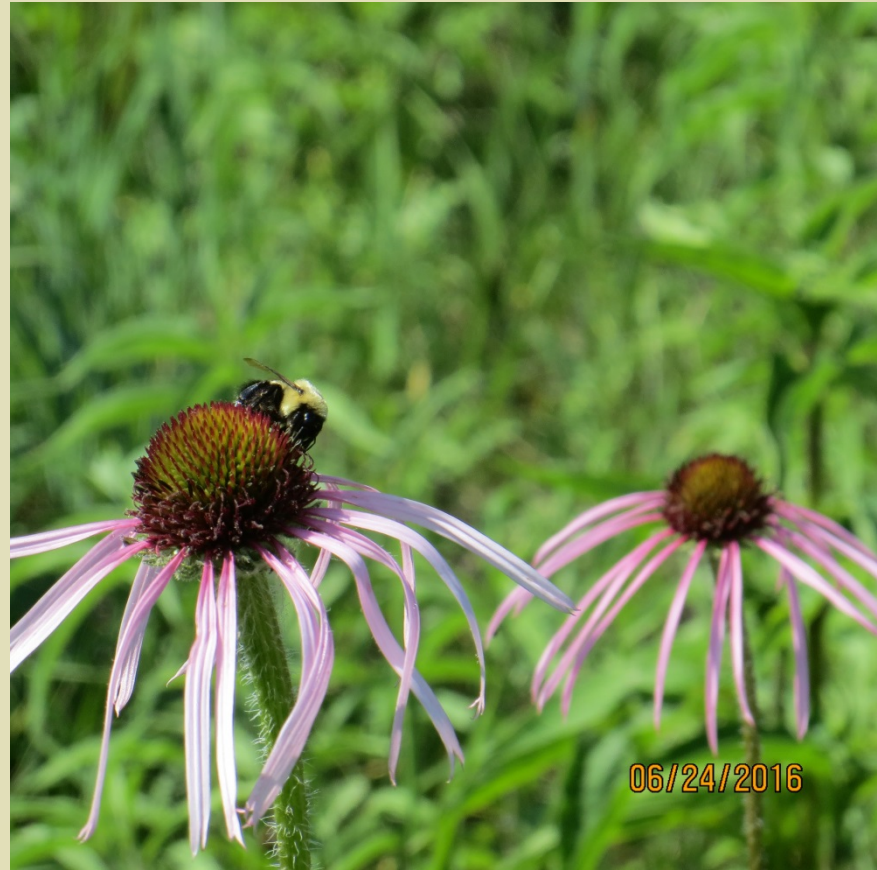


06/19/2015

Pelican Lake RA Shoreline Project



Pelican Lake RA Shoreline Project





Miscellaneous Information

Approximately 15 sites in NE Section of SD

- 3 Sites Currently on Pickerel Lake
- Can contact me anytime on locations and owner information
- Pelican RA is Open Year-Round, Located Near Boat Ramp

Plant Materials & Seeds

- Only Native Species Used – County/Location Specific
- Typically Only Use 2 Sources for Plant Plugs
 - Morning Sky Greenery – Morris, MN
 - Big Sioux State Tree Farm – Watertown, SD
- Seed Mixes Typically From Millborn Seed – Brookings, SD

Contact Information:

Rhet J. Russell

East River Wildlife Biologist

South Dakota Game, Fish, & Parks

400 West Kemp Avenue

Watertown, SD 57201

Office Phone: (605) 882-5200

Cell Phone: (605) 520-3160

Email: Rhet.Russell@state.sd.us





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