

Inside Region 3

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Project Uses Sandhill Cranes to Pave Way for Whooping Cranes

Necedah NWR is Home to Partnership Project Aimed at Recovering Endangered Whoopers

A pilot project to test rearing techniques for endangered whooping cranes is underway at the Necedah National Wildlife Refuge in central Wisconsin. Project researchers are using sandhill crane chicks and ultralight aircraft in an effort to develop successful rearing and migration techniques that can be used with whooping cranes.

The rearing project began in May 2000, when eggs were collected from the nests of wild sandhill cranes in central Wisconsin. Twenty-three eggs were shipped to Patuxent Wildlife Research Center, Maryland, where they were incubated and hatched. The chicks were exposed to recorded sounds of ultralight aircraft while inside their eggs. When they were less than two-weeks old, the chicks began to exercise by following the ultralight, and were exposed to the plane daily while in Maryland.

The young sandhills were returned to Necedah National Wildlife Refuge June 30, to be acclimated to their Wisconsin release site. The cranes have continued their flight training on refuge grasslands located near wetlands where the cranes forage and roost.

Meanwhile, a small group of san-



Flight Training. Sandhill cranes will be led by ultralight aircraft on a migration south from Necedah NWR in

dhill eggs hatched at the Necedah National Wildlife Refuge as part of a study investigating later exposure to ultralight aircraft. Their ultralight exposure began when the chicks were 30-40 days old. The progress of the eight chicks participating in the project is being charted and compared to the cranes whose exposure to the aircraft began earlier at Patuxent Wildlife Research Center.

All 22 chicks have fledged. Fourteen birds are still in flight training and are expected to embark late next month on an ultralight-led migration to Chassahowitzka National Wildlife Refuge in Florida, where they will be

--Photo courtesy Operation Migration, Inc. Wisconsin to Chassahowitzka NWR in Florida. The cranes are scheduled to depart in late September.

monitored throughout the winter. In the spring, the cranes will be allowed to migrate north unassisted by aircraft. The remaining cranes, most fitted with radio transmitters, will be released to wild sandhill flocks as they begin their normal migration. The transmitter will allow biologists to track their movements.

Researchers hope that lessons learned from this year's sandhill crane tests can be applied to whooping cranes. Whooping cranes could be raised from eggs laid in captivity and released as early as 2001. The young birds will be raised by people dressed

Sandhill Cranes' Flight Training Ahead of Schedule

One of the partners involved with the effort to reintroduce a flock of migratory whooping cranes into the eastern United States is reporting excellent progress with flight training of sandhill cranes currently underway at Necedah NWR.

Dan Sprague of Operation Migration, Inc., said sandhill cranes being taught to fly behind ultralight aircraft are learning quickly.

"The cranes have advanced in training quicker than in any previous project and are now flying with the aircraft in two

groups of seven," Sprague said. All of the birds have learned to soar on the airflow over the ultralight wing providing them lift similar to the lift created by the thermals which wild birds use as an aid in flight. We are now in the process of socializing the birds to form one large flock."

Fourteen sandhill cranes are undergoing flight training at Necedah NWR as part of a pilot project that will eventually help in the recovery of endangered whooping cranes. The flock of 14 cranes will depart Necedah NWR in late September on an ultralight-

led migration to Florida where the birds will be monitored over the winter. It is hoped the birds will return north unassisted in the spring. Researchers hope to apply lessons learned from the Sandhill crane rearing and migration to a similar project involving whooping cranes.

Partners include: Operation Migration, Inc., International Crane Foundation, National Resources Foundation of Wisconsin, Whooping Crane Recovery Team and Friends of Necedah. *(Shirley Rumppe, R3-Necedah NWR)*



--USFWS Photo

Dinner Time. A costumed Refuge staffer feeds young sandhill cranes at Necedah NWR.

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Necedah NWR Home to Crane Rearing Project

in crane costumes, using crane-faced puppets to feed and care for the young birds. (Crane costumes are used to ensure the young birds do not imprint on humans).

In the fall, the cranes will migrate to Florida following ultralight aircraft flown by pilots from Operation Migra-

tion, Inc, the group that inspired the movie "Fly Away Home."

The cranes have advanced in training quicker than in any previous project and are now flying with the aircraft in two groups of seven. *(LuAnn Rochester, R3-Necedah NWR)*

Aircraft Enthusiasts Learn About Service's Crane Introduction Effort at AirVenture in Oshkosh, Wis.

Staff and volunteers from the Necedah National Wildlife Refuge joined other Service staff at the Service's outreach display at the Experimental Aircraft Association's Airventure Fly-in at Oshkosh, Wis., July 26 to Aug. 2.

Refuge staff helped staff the Service information booth, meeting some of the more than 300,000 visitors and providing information on Service programs. Visitors also learned about the Service's whooping crane reintroduction efforts in the eastern United States. Necedah is home to a flock of sandhill cranes being trained to follow an ultralight aircraft on a migration from Wisconsin to Florida later this month.

Partners include: Friends of Necedah, Refuge Volunteers, Operation Migration, Inc. and International Crane Foundation. *(Shirley Rumppe, R3-Necedah NWR)*

Deformed Frogs Found at Fergus Falls Wetland Management District

Staff from Fergus Falls Wetland Management District (WMD) and Twin Cities Field Office joined members of the Minnesota Pollution Control Agency (MPCA) and U.S. Geological Survey (USGS) to conduct surveys for malformed frogs on two northwest Minnesota waterfowl production areas July 25-26, 2000. The surveys at Julrud and Iverson WPAs at Fergus Falls WDM, helped determine the prevalence of frog abnormalities on Service lands, as well as land use practices where abnormal frogs were found.

Of the 650 frogs surveyed between the two sites, 19 (3 percent) had deformities. Three hundred eighty northern leopard frogs were collected at Julrud WPA. Four frogs had abnormalities that included missing hind limbs and missing hind feet. One mink frog and 278 northern leopard frogs were collected at Iverson WPA. Fifteen northern leopard frogs had abnormalities that included missing hind limbs, tibiofibula folded back onto itself (bony triangle), shortened and atrophied ti-



-Photo courtesy MPCA

Missing Leg. *This northern leopard frog is missing its right leg. Malformed frog behavior is being studied at Minnesota Pollution Control Agency labs.*

biofibula, shortened and atrophied femur, missing digits, shortened digits, bent digits, missing eye, enlarged pupil, missing pupil, and missing eye socket. All frogs were measured (snout to vent length) and examined; frog abnormalities were recorded and photographed. Frogs with gross abnormalities were anesthetized, mounted on plastic, and preserved in ethanol.

Water quality parameters including pH, temperature, dissolved oxygen,

conductivity, hardness, nitrates/nitrites, ammonia, and phosphates, were measured on both WPAs. In addition, the USGS installed monitoring wells on both WPAs to monitor changes in ground-water flow and water quality. Surface water samples were also collected and analyzed for major ions, nutrients, pesticides/herbicides, dissolved organic carbon, and trace metals.

Julrud WPA is surrounded by native prairie and WPA land on all sides. Iverson WPA is surrounded by agricultural fields.

The MPCA is the primary agency responsible for assessing malformed frogs throughout Minnesota. The USGS, MPCA's federal partner, is tasked with assessing hydrologic and water quality conditions at sites where frog malformations have been reported.

Funding for the surveys comes from Department of the Interior's Amphibian Initiative, which is examining amphibian declines and abnormalities. (Kevin Brennan, R3-Fergus Falls WMD/PWLC)

Forest and Marsh Bird Surveys Conducted in Lake Superior Basin

For the third consecutive year, the Ashland Fishery Resources Office (FRO) completed point count bird surveys on the Whittlesey Creek National Wildlife Refuge and surrounding watershed.

The Ashland, Wis., office also assisted the Red Cliff Band of Lake Superior Chippewa in conducting its second year bird survey on the Red Cliff Reservation. Fifty-three points were surveyed at Whittlesey and 52 points at Red Cliff, with the help of several volunteers, Service staff and the University of Wisconsin Extension at the

Northern Great Lakes Visitor Center.

Points were added this year to survey secretive marsh birds in Whittlesey Creek and Red Cliff coastal wetlands, as well as two other coastal wetlands in the vicinity. New protocols recommended by the Service and U.S. Geological Survey were used for the marsh bird survey. These surveys included 100 meter listening points, where surveyors listened for secretive marsh birds and played tape recordings of target species to elicit a response. Yellow rails and American bittern were two of the target species heard during the sur-

vey.

The information collected will help the Service track bird use at Whittlesey Creek NWR and improve its ability to manage and restore habitat for migratory birds. The Red Cliff Tribe will utilize the information during their integrated resource management planning effort.

Partners include: Northern Great Lakes Visitor Center, University of Wisconsin Extension Service, Red Cliff Band of Lake Superior Chippewa, U.S. Forest Service, volunteers (Pam Dryer, R3-Ashland FRO)

Big Stone NWR Shorebird Workshop Draws Birders From 12 States

More than 100 shorebird enthusiasts from 12 states gathered at Big Stone National Wildlife Refuge Aug. 5, for the Refuge's first two-day Shorebird Workshop. The big attraction, of course, were the thousands of migrating shorebirds, attracted to the mudflats and shallow waters of the Refuge wetlands in search of food.

The birds are migrating to South America from their Canadian arctic breeding grounds. They may travel up to 13,000 miles to reach their wintering grounds. Refueling on aquatic invertebrates like those found at Big Stone NWR is critical if they are to successfully continue their journey. During their stay, which lasts an average of 2-3 weeks, shorebirds may double in weight!

Binoculars focused, camera shutters clicked, and memories were made. A variety of shorebirds were easily observed and included least and pectoral sandpipers, Baird's, upland, stilt, and buff-breasted sandpipers, Wilson's phalarope, ruddy turnstones, and marbled godwit, to name a few.

In addition to field trips, the workshop also included a host of wildlife professionals providing



--USFWS Photo by Ron Cole

Bird Watch. More than 100 birders attended Big Stone NWR's Shorebird Workshop Aug. 5.

inspiration and information through scheduled presentations. The most noted was renowned bird expert Brian Harrington of Manomet, Mass. Big Stone NWR has been conducting seasonal drawdowns of several pools for the past three

summers, attracting thousands of shorebirds. Each fall the water levels are raised in preparation for fall migrating waterfowl. The seasonal fluctuations of water levels increases submergent and emergent vegetation, associated invertebrates, and native aquatic seed production.

Managing habitat for diversity not only attracts a variety of native wildlife, but also attracts a diversity of visitors as well. August is a slow time of year for the tourism industry in rural western Minnesota. Summer vacation is over, crops are planted, harvest and hunting seasons are still weeks away.

The influx of over 100 eager birdwatchers and the dollars they brought with them was not overlooked by the businesses and community leaders.

Partners included the Big Stone, Minn., Chamber of Commerce (*Ron Cole, R3-Big Stone NWR*)

Squaw Creek NWR Joins Missouri Conservation Partners For Wetlands Conservation Field Days

Staff from Squaw Creek National Wildlife Refuge, in a cooperation with the Missouri Chapter of the Land Improvement Contractors Association, USDA Natural Resources and Conservation Service and a number of other organizations, participated in the Wetlands Conservation Field Days August 4-5, 2000, on and near Squaw Creek NWR in northwest Missouri.

Refuge Operations Specialist Rick Speer was instrumental in securing \$3,500 from the Washington Office to help fund a 14-acre shorebird habitat area in Cattail Pool. Volunteer contractors installed a 70-foot by 18-inch tube and a water control structure (donated by the Missouri Bootheel Project consisting of partners Ducks Unlimited, NRCS, and MDC) using donated equipment and labor, the entire project was completed during the two-day event. A pull-out on the auto tour route was also created for the public to view shorebirds.

Approximately 250-300 contractors and other visitors attended the event. There was also financial and staff assistance from the Ecological Services Field Office in Columbia, Mo.

Partners include: Missouri Bootheel Partners Project, Ducks Unlimited, Missouri Department of Conservation, NRCS, Columbia ES, Missouri Chapter of the Land Improvement Contractors Association (*Ron Bell, R3-Squaw Creek NWR*)

Wisconsin Residents Get Facts About Gray Wolf Reclassification

Wisconsin residents were able to get the facts about the U.S. Fish and Wildlife Service's proposed reclassification of the gray wolf to a threatened species under the Endangered Species Act during information meetings at three Wisconsin cities Aug. 15-17.

About 65 visitors attended the evening meetings, held from 4:30 - 9:30 p.m. in Black River Falls, Madison and Ashland, Wis. The open-house style meetings included an 18-minute slide presentation on gray wolf biology, predation, and facts about the proposed reclassification. Subject matter experts from the U.S. Fish and Wildlife Service and Wisconsin Department of Natural Resources staffed information tables, addressing specific questions from the public and local news media. Written comments were also accepted from the public. Regional Office staff from External Affairs, Ecological Services joined members of the Green Bay Field Office to operate the meetings.

Wisconsin is one of three states with wolf populations in the Great Lakes region affected by the Service proposal, which will reclassify the status of the gray wolf to a threatened species under the Endangered Species Act. State and federal conservation agencies estimate there are about 250 gray wolves in Wisconsin, located primarily on public lands in the north-



--USFWS Photo by Joel Trick

Wolf Meeting. Members of Native American conservation agencies joined Service representatives during Service-sponsored gray wolf informational meetings at Ashland, Wis., Aug. 17. From left: Dwight "Bucko" Teeple, Chippewa-Ottawa Treaty Fisheries Management Authority; Tom

Doolittle, biologist Bad River Band; Ron Refsnider, biologist, USFWS; Peter David, biologist Great Lakes Indian Fish and Wildlife Commission; Erv Soulier, manager Bad River DNR and John Leonard, Region 3 Native American liaison.

west part of the state.

The Wisconsin meetings followed similar meetings held earlier in St. Paul and Grand Rapids, Minn. The meetings were also held in Watersmeet, Mich. Aug. 28, and Escanaba, Mich. Aug. 29.

Partners include: GLIFWC, COTFMA, Wisconsin DNR, Northern Great Lakes Visitors Center, Madison Technical College, Madison; Lunda Community Center, Black River Falls. (Scott Flaherty, External Affairs)

Project Improves Fish Habitat, Water Quality in Wisconsin County

The Service recently partnered with property owner John Hogden, Wisconsin Conservation Corps, and the Wisconsin Department of Natural Resources to complete stream bank stabilization and fish habitat improvements on Beaver Creek in Jackson County, Wis. The project ran from July 10 to Au-

gust 6, and was performed on 300 feet of the North Branch of Beaver Creek in Franklin Township. Box Elder trees along stream were removed, severely eroded stream bends were re-sloped and rip-rap was placed, trout structures and spawning gravel were also placed along the creek.

The project will improve water quality, fish habitat and extend improvements to Wisconsin DNR property located downstream. The project also helped reclassify the section of Beaver Creek to a Class I trout stream. (Shirley Rumppe, R3-Necedah NWR)

Refuge Staff Continue Agressive Carp Control Measures at Horicon NWR

More than 4,000 carp fingerlings, 3,000 bullheads and 300 adult carp were eliminated from Horicon Marsh following chemical treatments Aug. 18, at Horicon NWR in southeastern Wisconsin. The spot treatment, using the chemical Retenone, is part of an aggressive carp control program initiated by the Refuge in January.

A successful marsh-wide treatment was conducted under the frozen surface of the marsh in January. The treatment was followed by restocking of perch and northern pike from a nearby lake experiencing a winter kill, as well as fingerlings of bass, pike, and sunfish from Genoa National Fish Hatchery.

Other carp control measures such

as spot treatments and fish traps, must be continued to ensure long-term success. This was the first successful spot treatment at Horicon NWR this year. Past attempts were unsuccessful due to lack of large concentrations of carp.

The Wisconsin Department of Natural Resources has had repeated successes of spot treatments on the marsh at a dam that separates Horicon NWR from the DNR-controlled portion of the marsh. A fish trap is also installed on the DNR portion. Refuge staff plan to install a trap at Horicon NWR this winter.

About 165 game fish were also killed by the chemical treatments.

(Diane Penttila, R3-Horicon NWR)

New Signs to Help Protect Lake Erie Water Snake Posted in Ohio

Service biologists Angela Boyer and Megan Sullivan, from the Reynoldsburg Field Office, visited Kelleys Island and South Bass Island, in western Lake Erie during August to meet with local landowners and distribute the new Lake Erie water snake law enforcement signs.

The 18-inch by 30-inch metal sign says, "Lake Erie Water Snakes and Habitat Protected by Federal and State Law," and includes a color photograph of the federally-threatened and Ohio-endangered Lake Erie water snake. Telephone numbers to federal and state law enforcement agencies have been printed on the signs to encourage island visitors and residents to report endangered species violations.

The law enforcement sign was modeled after the Service's first island snake sign "Water Snakes Welcome Here; Help Us Save the Rare Lake Erie Water Snake - A Unique Part of Our Island Heritage. Please Do Not Kill or Harass this Non-poisonous Snake" These 11 x 14" metal signs have been very popular since their initial distribution in 1999.

The older signs are still available for island residents at no costs, and are now seen on docks, trees and cottages throughout western Lake Erie islands.

The Lake Erie water snake (*Nerodia sipedon insularum*) was listed as a federally threatened species on August 30, 1999. This subspecies of the northern water snake is only found along western Lake Erie shorelines in the U.S. and Canada. *(Angela Boyer, R3-Reynoldsburg FO)*

Minnesota Town Honors Duck Stamp Artist

Hastings, Minn., celebrated the laurels of one of its hometown talents recently when Bonnie Latham, winner of the National Junior Duck Stamp Competition was honored



video tape Saturday's celebration at the Nature's Palette Gallery. The gallery hosted the Junior Duck Stamp traveling art exhibit where Bonnie autographed the

during Hastings Rivertown Days, July 14-16.

The Hastings' city council honored Bonnie with a special proclamation; Hastings Area Chamber of Commerce and Tourism Bureau touted her success on its web page and sponsored her in the parade as the hometown folks cheered her on. KDWA, Hastings local radio station, interviewed the Service's Judie Miller, the Minnesota Junior Duck Stamp Coordinator, broadcasting the interview prior to the celebration.

A local television station interviewed Bonnie and was on site to

recently issued Junior Duck Stamp, which incorporates her painting of a pair of northern pintails. Several hundred visitors enjoyed the art exhibit and were treated to hand scooped ice cream, cookies and root beer contributed by Bridgeman's Restaurant Inc., the Hastings Chapter of Minnesota Waterfowl Association Inc., and the gallery. National Junior Duck Stamp Coordinator, Terry Bell, thought this was possibly the first-ever hometown celebration for a National Junior Duck Stamp winner. *(Judith Miller, R3-Minnesota Valley NWR)*

Accomplishment Reports Received

The following Accomplishment Reports were processed by the ARS during the week of August 30. Reports received after August 30 will be listed in the next issue of Inside Region 3.

1. **Sandhill Crane's Flight Training Ahead of Schedule**
Shirley Rumppe, R3-Necedah WR
2. **Study Shows Contaminants Changing Sex of Mississippi River Sturgeon**
Rick Nelson, R3-Rock Island FO
3. **Service Website Featuring Lewis and Clark Bicentennial Introduced at Annual AFS Meeting**
John Leonard, R3-External Affairs
4. **Land Acquisition Delineations at Fergus Falls WMD**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
5. **Brennan Meets With Minnesota Congressman Collin Peterson**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
6. **Necedah Staff and Friends Participate in Ducks Unlimited's Great Outdoors**
Shirley Rumppe, R3-Necedah NWR
7. **Return to the Prairie Day at the Prairie Wetlands Learning Center**
Kenneth Garrahan, R3-Fergus Falls WMD/PWLC
8. **McGregor District Represented at Cabela's Fall Expo**
Cathy Henry, R3-UMRNW&FR-McGregor Dist.
9. **Carp Control at Horicon NWR Continues**
Diane Penttila, R3-Horicon NWR
10. **Federal, State, and Local Agencies Partner to Conserve Lake Erie Water Snake**
Angela Boyer, R3-Reynoldsburg FO
11. **Horicon NWR Hosts Educator Workshop**
Molly Stoddard, R3-Horicon NWR
12. **New Lake Erie Water Snake Signs Posted in Ohio**
Angela Boyer, R3-Reynoldsburg FO
13. **Wisconsin Residents Get Facts About Proposed Gray Wolf Reclassification**
Scott Flaherty, R3-External Affairs
14. **A Geographic Information System for the Ohio River Valley Ecosystem**
Leslie TeWinkel, R3-GARD
15. **Beaver Exclosures Prevent Interference With Wetlands' Water Control**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
16. **Federal Aid to be Featured in Fish Exhibit at the Indiana State Fair DNR Booth**
Julie Morin, R3-Federal Aid
17. **Fathead Minnows Survey Completed at Fergus Falls WMD**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
18. **New Biologist Added to Squaw Creek NWR**
Ron Bell, R3-Squaw Creek NWR
19. **SCEP Student Goes to Work at Squaw Creek NWR**
Ron Bell, R3-Squaw Creek NWR
20. **Search for Non-game Bird Nests Complete at Squaw Creek NWR**
Ron Bell, R3-Squaw Creek NWR
21. **Waterfowl Season Primer Breakfast Held in Regional Office**
Dan Sobieck, R3-External Affairs
22. **Girl Scouts Use Senses to Explore Two Rivers NWR**
Michael Dixon, R3-Mark Twain NWR-Riverlands
23. **Monarch Butterfly Migration at DeSoto NWR**
Cindy Myer, R3-Desoto NWR
24. **Jackson County Riparian Project Completed**
Shirley Rumppe, R3-Necedah NWR
25. **Michigan Refuge Participates in the Great Outdoors Festival**
Becky Goche, R3-Shiawassee NWR
26. **First Annual Big Stone NWR Shorebird Workshop a Success**
Ron Cole, R3-Big Stone NWR
27. **Squaw Creek NWR Joins Missouri Conservation Partners For Wetlands Conservation Field Days**
Ron Bell, R3-Squaw Creek NWR
28. **Agencies Learn About Thirty Years of Prairie Establishment at Detroit Lakes WMD**
Les Peterson, R3-Detroit Lakes WMD
29. **La Crosse District Serves as Work Site for Summer Youth**
Mary Stefanski, R3-UMRNW&FR-LaCrosse
30. **ARS Adopted by Forest Service, EA Demonstrates Upgrades**
Scott Flaherty, R3-External Affairs
31. **Staff From Necedah NWR Contributes to Service Outreach at AirVenture**
Shirley Rumppe, R3-Necedah NWR

- 32. New Information Dissemination System Increases Reach, Reduces Costs**
Chuck Traxler, R3-External Affairs
- 33. Pilot Study Using Sandhill Cranes to Pave the Way for Whoopers**
LuAnn Rochester, R3-Necedah NWR
- 34. Unique Partnerships Help Restore Erosion Sites on 15 Miles of Thunder Bay River**
Heather Enterline, R3-Alpena FRO
- 35. Horicon Fish Survey Completed**
Scott Yess, R3-LaCrosse FRO
- 36. Prairie Wetlands Learning Center Mosquito Run Attracts More Than Mosquitos**
Kenneth Garrahan, R3-Fergus Falls WMD/PWLC
- 37. Survey Uncovers Deformed Frogs at Fergus Falls Wetland Management District**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
- 38. Predator Exclosure Fences**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
- 39. Service Divers Assist MacAlaster College St. Croix Mussel Project**
Scott Yess, R3-LaCrosse FRO
- 40. Detroit Lakes WMD Helps Lake Agassiz NWR with Wetland Restorations**
Les Peterson, R3-Detroit Lakes WMD
- 41. Refuge Officers Target Underage Drinking on McGregor District**
Cathy Henry, R3-UMRNV&FR-McGregor District.
- 42. Detroit Lakes WMD Makes First Appearance at the Mahnomen County Fair**
Les Peterson, R3-Detroit Lakes WMD
- 43. Open House Solicits Public Comment on Proposes Hunting on Closed Waterfowl Production Areas**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
- 44. Round Goby Surveillance Expanded in Illinois Waterway**
Mark Steingraeber, R3-LaCrosse FRO
- 45. Paul Asper Pleads Guilty to Wildlife Smuggling, Firearms Violations**
Donnie Grace, R3-Chicago LE
- 46. Ducks Unlimited Members Gather in Fergus Falls to Dedicate New Water Control Structures**
Kevin Brennan, R3-Fergus Falls WMD/PWLC
- 47. Wild Berry Bash at Necedah NWR**
Shirley Rumppe, R3-Necedah NWR
- 48. Birds Active At Necedah NWR**
LuAnn Rochester, R3-Necedah NWR
- 49. Forest and Marsh Bird Surveys Conducted in Lake Superior Basin of Northern Wisconsin**
Pam Dwyer, R3-Ashland FRO
- 50. Girl Scouts Attend Day Camp at Necedah NWR**
Shirley Rumppe, R3-Necedah NWR
- 51. Challenge Cost Share Project: Vegetation Restoration Project on Crab Orchard Wildlife Refuge**
Chad Stinson, R3-Carterville FRO

Inside Region 3



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