

Summer 2022

Issue 66

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Dakota Chapter *American Fisheries Society* *Newsletter*



President's Message: **-BJ Schall**

Hello Dakota Chapter members! We are right in the midst of summer, and if your summer is proceeding like mine, you are hoping for things to slow down in the fall! This summer has been hot and dry throughout the Dakotas, which means a lot of uncomfortable days out in the field. Hopefully, everyone is staying cool and finding ways to enjoy those cooler summer days.

I would like to thank everyone who came to the annual Dakota Chapter conference in Sioux Falls this past February. The weather decided to make travel challenging (after about a month of beautiful February weather), but most of the original registrants were able to attend. It was great to return to an in-person meeting this past winter and catch up with folks from around the Dakotas on the projects on which they've been working and life outside of work. We had a solid turnout with about 80 attendees in Sioux Falls this past February, representing 13 different agencies. Our meeting began with a workshop provided by Dr. Jeff Wesner on understanding and interpreting Bayesian statistics. While the topic was complex, there were still 16 attendees who participated! We were fortunate to have Mike Hawkins from the Iowa Department of Natural Resources lead our plenary session on the Lost Island Lake habitat restoration project. We also had a high-quality slate of 21 presentations, and I'd like to thank all the professional and student presenters for sharing their research! Our great slate of presenters demonstrated that biologists from the Dakotas are conducting high-quality work on a broad range of topics. We also had one of the largest poster sessions in recent years, with 12 posters shared by students and professionals.

I'd like to thank the executive committee for all their hard work over the past year. Dave Lucchesi and Aaron Slominski were instrumental in helping our Dakota Chapter meeting run smoothly, and Scott Gangl was always available to provide guidance on our meeting and keep me in tune with the deadlines I was supposed to hit! Dylan Turner, our information and web support committee chair, also needs a shout out too for his help in getting all of our information updated on the website this past year. I'll be handing off my duties as Dakota Chapter president to Paul Bailey in September, and he will be joined by Russ Kinzler as vice president, Cameron Goble as secretary/treasurer, and Brian Blackwell as president elect.

I also think it would be important to acknowledge the loss of our friend and coworker Will Sayler. Will passed away late in 2021, and his family generously donated funds raised at his funeral to the Dakota Chapter of AFS. Will worked for South Dakota Game, Fish and Parks for over 30 years and was a passionate member of the Dakota Chapter of AFS. Everyone knew Will as the go-to source for our Robert's rules questions. Beginning in 2023, funds will be distributed in Will's honor to support student or professional attendance at the Dakota Chapter meeting.

Finally, I'd like to thank the Dakota Chapter membership for allowing me to serve as Chapter president over the past year. I have been able to actively participate during a great time period, thanks to the transition back to in-person meetings (Chapter, regional, and national) and to the expansion of virtual information sharing from large AFS groups, such as the North Central Division. Hopefully, before my tenure as AFS president ends, we see Congress pass the Recovering America's Wildlife Act, and future meetings will have a new source of funding as the foundation of continued research, management, and conservation of fisheries in the Dakotas. I look forward to seeing you all again in February, and I hope you have a great summer that is both productive and relaxing!

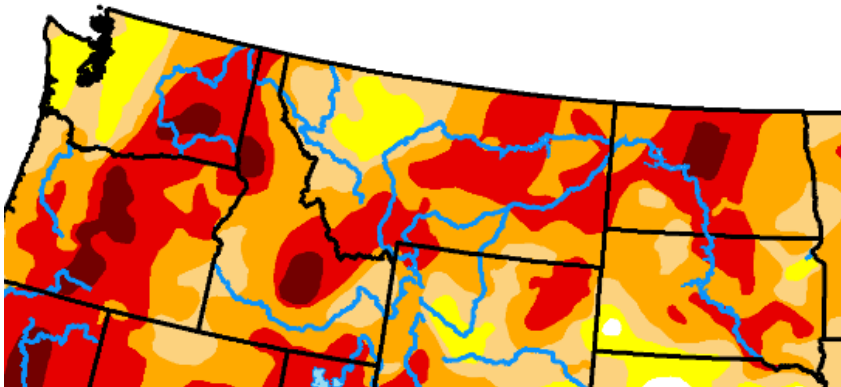


North Dakota Game and Fish Department Update

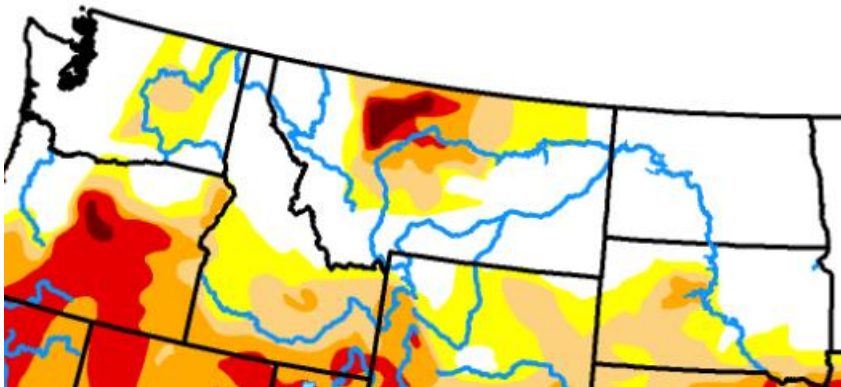
– Greg Power

U.S. Drought Monitor

Mid July 2021



Mid July 2022



If you're a native Dakotan and/or work on North/South Dakota waters for a profession, you've long learned the peaks and valleys, floods and droughts that are a way of life for all of us. Once again in the past year, our weather flipped-flopped, and this time for the better. Serious drought and record heat was the norm during the summer of 2021 but fast forward a year (2022), and the drought is gone. In fact, most of North Dakota waters are again at or near record water levels after ample precipitation in the past four months.

The good news doesn't stop with 'full' lakes and reservoirs. Despite a decent snowpack throughout most of North Dakota this past winter, the number of (significant) winterkill lakes documented this spring are literally only a handful. And with all the new water again on the landscape, strong reproduction of many species is likely (documentation will not occur until this fall).

The wet conditions the past few decades are nothing new. As a result of a 30 year history of periodic flooding, the number of newer walleye fisheries in the prairie pothole landscape of central North Dakota has continued to grow. As of July, 2022, there are now 72 of these lakes (greater than 200 acres) that are currently providing a catchable walleye fishery in North Dakota covering nearly 83,000 acres. In addition, there are another 21 waters (11,000 acres) that are a year or two away from producing.

Perhaps two anglers who will be fishing these waters regularly in the future are two recent Game and Fish Department employees, Jeff Hendrickson, and Scott Elstad. Jeff and Scott have retired after contributing 56 years of combined experience managing North Dakota fisheries and protecting aquatic habitat. Their contributions will be missed.

The Fisheries Division has hired two additional fulltime staff. Mason Ryckman and Zach Kjos are the most recent individuals working on our Development team addressing access issues across the state.

Fishing and catching(!) remains good in most of North Dakota's 450 fishing waters. If you're not already out fishing, make it a priority and get out and wet a line.



South Dakota Game, Fish, & Parks Update

— John Lott

When I began to write this update for the newsletter for SDGFP, I knew we had some changes in staffing and staff assignments during the last 6 months, but I was very surprised how much has changed in so little time.

- Randy Smidt retired from Blue Dog SFH after 37 years with the department, all at Blue Dog State Fish Hatchery. Randy served as the hatchery assistant manager for most of his years of service. Thank you, Randy, for all your service to the anglers of South Dakota and the excellent fisheries you helped create!
- Jeremy Kientz was hired to fill the area fisheries supervisor position in Rapid City vacated when Jake Davis became the program administrator for fisheries management last Fall. Jeremy was a fisheries biologist in that office before becoming the supervisor.
- Tony Quail was hired as a resource biologist for the aquatic habitat and access program in northeastern SD and is stationed in Watertown. This is a new position created by reallocating existing staffing resources. Tony will be working with Rhet Russell and area fisheries staff to support fishing access needs in the glacial lakes area.
- Mike Smith, the area fisheries supervisor for the Upper Missouri River Fisheries Management Area, accepted a job with the USFWS in Pierre as an invasive species biologist. Mark Fintel was hired to fill the area supervisor position created by Mike Smith's resignation.
- John Carreiro, an aquatic habitat and access biologist in Rapid City, resigned his position to work in environmental permitting at Ellsworth Air Force Base. John worked for SDGFP for 25 years, serving as a fisheries biologist at Cleghorn State Fish Hatchery before being a habitat and access biologist.
- Grant Truskinski and Kris Cudmore were hired as aquatic habitat and access biologist in Rapid City with responsibilities for western SD and the Black Hills. Grant came to SDGFP from Michigan, where he worked with the USFWS, and Kris moved from terrestrial to aquatics within the Rapid City office.
- Liz Renner was hired to fill the resource biologist position vacancy created in Ft. Pierre when Kyle Potter became the aquatic habitat and access biologist for central SD last fall. Liz is a South Dakota native who recently completed her PhD at Kansas State University on the role of gizzard shad in small impoundments.

Also, with the development of recirculating aquaculture systems (RAS) at Cleghorn State Fish Hatchery, we will be hiring a resource biologist in the next few months, to help manage the increasing level of fish production at that facility.

Thank you to all those who have left SDGFP for being a part of our team and your many contributions during that time. We wish you the best in your future endeavors. And welcome to those who recently joined our team. We are excited to have you and to see how you can make us better.

Great Plains Fish and Wildlife Conservation Office

– Dan James

Mike Smith joined the U.S. Fish and Wildlife Service (USFWS) Great Plains Fish and Wildlife Conservation Office Team in Pierre, SD on May 9th as a Fish Biologist! Mike's primary duties will be to work with invasive carp species in and around the ND/SD region, particularly within the Missouri River basin. Mike will coordinate USFWS invasive carp management activities with our numerous partners and get out there in the field to work hands-on with carp. He brings a wealth of experience and will be a great asset to the USFWS.



Above Photo: Mike collects data during acoustic transmitter surgery on a Silver Carp from the Big Sioux River. Image credit: Dan James

Centrarchid Research & Management: Ongoing & Upcoming Projects

– Contributed by Liz Renner and those indicated below

Recent Largemouth Bass management efforts at Lake Mitchell

Dave Lucchesi

There is currently a proposal to re-instate the 15-inch MLL on Largemouth Bass in 670-acre Lake Mitchell in southeastern South Dakota. Complaints by a local bass club that were supported by 10-years of declining summer-league catch data prompted GFP Aquatics staff to take a closer look at the population. We had stopped monitoring Largemouth Bass in the lake in 2013 because electrofishing from 1994-2012 showed a relatively stable population of moderate density and good growth with a PSD that was often at or above the optimal range (40-70%). Angling interest in largemouth bass is limited in eastern South Dakota, and we believed harvest to be minimal based on two summers of creel survey (2002-03) and the good population size structure. In 2019, the 15-inch MLL on Largemouth Bass in Lake Mitchell was removed along with similar special regulations on Largemouth Bass on a number of other waters as it was felt that these populations did not require the protection afforded by the special regulation.

Our recent monitoring efforts on Lake Mitchell (2020-2022) yielded catch rates were less than 5 bass/h for 2 hours of nighttime electrofishing in early June compared to an average catch rate of nearly 24 bass/h from 1994-2012 indeed indicating a substantial decline in the population. Reasons behind the decline are not well-understood, however, potentially high predation by abundant Black Crappies and now Bluegill over the last 5 years may have suppressed Largemouth Bass recruitment. Aquatic vegetation is at best patchy in Lake Mitchell providing sub-optimal nursery areas for juvenile Largemouth Bass. Additionally, Black Crappies recently have supported a popular fishery, and anglers targeting crappies may have also harvested incidentally-caught small Largemouth Bass not protected under an MLL.

Our initial plan is to try to supplement the population with Largemouth Bass (8 inch +) reared in our state fish hatcheries or transferred from state waters. We are proposing to re-instate the 15-inch MLL in order to protect expensive stocked fish from immediate harvest. Large-scale plans to draw-down Lake Mitchell, remove half of the accumulated sediment, sculpt the lake bottom, and add fish habitat should have a positive impact on Largemouth Bass abundance. Additionally, zebra mussels were first reported in Lake Mitchell last summer, and their clearing may increase water clarity, and subsequently, abundance of aquatic vegetation, both positives for Largemouth Bass. We plan to annually monitor the Largemouth Bass population to assess success of stockings and changes in natural reproduction.

Adult Smallmouth Bass and Walleye predation on stocked age-0 Walleye in Lake Oahe

Kyle Olivencia, Emily E. Grausgruber, Mark J. Fincel, and Michael J. Weber

Increases in Smallmouth Bass abundance throughout the Midwest in recent decades has prompted concerns regarding predation on stocked Walleye. However, the timing and extent of predation is unknown. Our objectives were to estimate the timing and duration of Smallmouth Bass and adult Walleye predation on stocked Walleye, frequency of occurrence and percent composition by weight of Walleye in predator diets, and the percent of stocked Walleye consumed by predators. We collected predator diets May (pre-stocking) and June-September (post-stocking) 2019 and 2021 from three bays in Lake Oahe, SD, two of which were stocked with Walleye (30-32 mm; 255-1,649 Walleye/ha) whereas one served as a reference. We estimated predator population abundance using Schnabel capture-recapture models and used bioenergetics to estimate the percent of stocked age-0 Walleye consumed. We found age-0 Walleye in up to 11.4% of Smallmouth Bass and 14.6% of adult Walleye diets post-stocking. Daily mean percent composition by weight (\pm 95% CI) of age-0 Walleye in diets peaked at 43.2% (\pm 35.1%) on 3 days post-stocking (DPS) for Smallmouth Bass and 49.8% (\pm 97.7%) on 14 DPS in adult Walleye. Following peaks, age-0 Walleye percent composition by weight rapidly declined and was generally 0% after 25 DPS. Smallmouth Bass consumed an estimated 11,844 age-0 Walleye in 2019 and 5,280 age-0 Walleye in 2021 (up to $6.0\% \pm 1.9\%$ of stocked fish) whereas adult Walleye consumed an estimated 820 age-0 Walleye in 2019 and 119 age-0 Walleye in 2021 (up to $0.5\% \pm 0.4\%$ of stocked fish). Managers should consider up to 6.5% loss in stocking fingerling Walleye from resident Smallmouth Bass and adult Walleye predation and may consider alternative stocking densities, locations, or timing to reduce potential predation.



Diet and stable isotope overlap between Smallmouth Bass and Walleye in Missouri River reservoirs

Kyle Olivencia, Emily E. Grausgruber, Mark J. Fincel, and Michael J. Weber

Smallmouth Bass is a popular sportfish introduced to many waterbodies outside of its native range to increase angling opportunities. Increases in Smallmouth Bass abundance have overlapped with Walleye populations, an economically important harvest-oriented sportfish native in the Midwest. Walleye have experienced declines throughout their range prompting concerns regarding potential competition with Smallmouth Bass. Our objectives were to assess potential competition between Smallmouth Bass and Walleye by evaluating diet overlap, community isotopic niche, and trophic position overlap in systems with varying prey assemblages and to evaluate historical changes in Walleye isotope signatures associated with increasing Smallmouth Bass abundance. We collected predator diets and isotope samples May-September 2019 and 2021 from Lake Sharpe and Lake Oahe, SD and used Morisita's index to determine diet overlap and estimated isotopic niche breadth and core niche overlap using Bayesian models. We next assessed historical changes in Walleye isotope values using general linear models and pairwise comparisons tests. Smallmouth Bass and Walleye exhibited moderate diet overlap (0.48) that varied temporally, with June exhibiting low (0.33) and September exhibiting high overlap (0.67). Walleye and Smallmouth bass condition was not related to diet overlap values. Smallmouth Bass and Walleye shared no isotopic core niche overlap in either lake during 2019 but shared low core niche overlap in Lake Sharpe (0.29) and Lake Oahe (0.18) during 2021. Historically, Lake Oahe Walleye $\delta^{15}\text{N}$ values were enriched and $\delta^{13}\text{C}$ reflected a shift in feeding from the pelagic to littoral zone in 2007-2009 compared to 2001-2002. Isotope values in 2019 and 2021 were similar to those in 2001-2002 that may be the result of the cyclical nature of pelagic prey populations within Lake Oahe. Our results indicate resource partitioning between Smallmouth Bass and Walleye suggesting declines in either species are unlikely due to competitive interactions.

Smallmouth Bass harvest dynamics in Missouri River reservoirs

Christian Slone, Kyle Olivencia, Mark J. Fincel, and Michael J. Weber

Bass are generally viewed as a catch-and-release sport fish that experience low exploitation. However, species and regional variation may exist where harvest still occurs that may impact populations. We are in the beginning phases of assessing Smallmouth Bass harvest in lakes Sharpe and Oahe and evaluating how populations may respond to alternative harvest regulations.

Wildlife species data acquisition and analysis for understanding the influence of habitat degradation on sportfishes in SD impoundments

Alison Coulter, David Coulter, Steve Chipps, Dave Lucchesi, Benjamin Schall, and SDSU graduate and undergraduate students

Small impoundments (<150 acres) provide important angling opportunities in South Dakota. Although they represent a small amount of total surface water in the state, small impoundments can receive relatively high angling pressure for species including Bluegill, Largemouth Bass, and crappies. Management of these fishes, however, can be hindered by poor habitat quality and low reservoir productivity. Lake Alvin is a 43-ha impoundment formed on the lower end of Nine Mile Creek that drains a 11,700-ha watershed in Lincoln County, South Dakota. The Lake Alvin dam was completed in

August 1954, and the lake was filled by 1957. The concrete spillway for the dam was replaced in 1994. The lake is influenced by silt and organic inputs from inflowing water. High turbidity, sparse vegetation, and reduced hypolimnetic oxygen concentration combine to reduce habitat quality in Lake Alvin. Poor habitat conditions and low prey availability are believed to limit fish production and size, and harvest regulations have done little to improve the size-structure of centrarchid fishes in Lake Alvin. Because habitat quality in the lake is believed to limit fish growth, large-scale habitat improvements are needed to improve fish productivity. SDGFP plans to improve the infrastructure (i.e., spillway) at Lake Alvin, followed by habitat improvement/restoration efforts to help alleviate sedimentation, nutrient loading, and hypoxia. To understand the effects of habitat degradation and later determine the effects of habitat renovation on the fish community, SDSU and SDGFP biologists will investigate the influence of habitat stressors (e.g., temperature, hypoxia) on fish diet, growth, and movement in Lakes Alvin and Marindahl. Marindahl Lake, which is not planned to be renovated, will be assessed to account for the influence of interannual variability and for a future Before-After-Control-Impact analyses following restoration efforts.

The objectives of this study are to document the effects of varying habitat degradation on the chemical and physical conditions and biological attributes in Lakes Alvin and Marindahl. Specific objectives include: 1) documenting water quality and nutrient dynamics in Lakes Alvin and Marindahl prior to the renovation of Lake Alvin; 2) examining the effects of habitat degradation on the diet breadth, body condition, and growth rates of Largemouth Bass, Channel Catfish, and Black Crappie; and 3) identifying the effects of habitat degradation on home range size and habitat use of Largemouth Bass, Channel Catfish, and Black Crappie. These data will also provide valuable pre-renovation information on habitat availability, quality, and effects on sportfish that can be later compared with data post-renovation.

The study will begin July 2022 and will continue through June 2026. Fieldwork will occur in July (during seasonal hypoxia) and September (after hypoxia) during 2022 to sample fish (growth and diets), invertebrate and zooplankton prey, vegetation, and water quality. Sampling will not occur during the water drawdown period for spillway improvements during 2023. Acoustic transmitters will be implanted into fish in both lakes in April 2024. Both lakes will be sampled for fish (diets and preyfish relative abundances), invertebrate and zooplankton prey, vegetation, and water quality during April, July, and September in 2024 and 2025. Active tracking of tagged fish locations will occur at least twice in April, July, and September of 2024 and 2025. Telemetry data will be used to calculate 50% and 95% home range sizes for individual fishes to compare across seasons and within season between the lakes. Home range overlap among individuals of the same species, across species, and nearest neighbor distance will be calculated and compared across seasons and between lakes.

The effects of habitat degradation on water quality and vegetation measurements, preyfish relative abundance, zooplankton and macroinvertebrate densities, fish condition, and fish diet breadth will be analyzed using linear models with fixed effects of season, lake, and the season*lake interaction. The effect of habitat degradation on home range sizes (50% and 95%) and nearest neighbor distance will be assessed separately for each species using mixed-effects models with fixed effects of season, lake, and the season*lake interaction, and a random effect of individual fish. We will use habitat selection indices to quantify habitats (nearshore, off-shore, benthic) and conditions (temperatures, oxygen, depth) fish species may be selecting or avoiding. We anticipate decreased home range sizes, increased overlap within and across species, and smaller nearest neighbor distances in Lake Alvin during hypoxia relative

to pre/post hypoxia and all seasons in Marindahl Lake. We also expect to observe decreased use of the heavily sedimented riverine zone in Lake Alvin compared to Marindahl Lake by all species.

Isotopic niche overlap among Smallmouth Bass, Northern Pike, and Walleye in Lake Kampeska
Lauren Alex, Alison Coulter

Smallmouth Bass are introduced in Lake Kampeska, and the extent to which they compete for resources with co-occurring fishes such as Northern Pike and Walleye has not yet been evaluated. SDSU undergraduate student Lauren Alex will be using isotopic niche overlap as a measure of potential competition between these fishes to assess how niche overlap varies seasonally and between wetland and lake habitats.



2023 Annual Meeting

Dakota Chapter of the American Fisheries Society

- February 21-23
- Bismarck, ND
- Further details and registration will be available this fall

2023 Continuing Education

The Dakota Chapter is excited to offer an outstanding half-day workshop in conjunction with the 2023 Annual Meeting that is sure to benefit many Chapter members.

Creel Surveys: Designing Complex Solutions to Simple Questions

Instructors: Mark A. Kaemingk, Christopher J. Chizinski, Keith L. Hurley, and Kevin L. Pope

The workshop will provide a lights-on, participant-driven, introduction to the complexities and challenges of conducting onsite angler assessments and novel analyses. We will lay the groundwork for developing more in-depth design and analysis of angler-fish interactions.





Dakota Chapter
American Fisheries Society
Est. 1987

Business Meeting Minutes

2/23/2022

Call to Order – BJ Schall at 1610

Approval of the 2021 Business Meeting Minutes

- Motion was made to approve the 2021 business meeting minutes, a vote in favor of the motion was accepted

Officer's Reports

President Report – BJ Schall

- About 80 attendees at the 2022 annual Dakota Chapter meeting

Vice President Report – Dave Lucchesi

- 16 attendees at the 2022 continuing education

President-Elect Report – Paul Bailey

- Seeking input for the 2022 spring newsletter
- Planning to host the 2023 annual meeting in Bismarck, ND

Secretary/Treasurer Report - Aaron Slominski

- Checking - \$10,173.67
- Edward Jones - \$5,609.67
- Klumb - \$7,871.50
 - o Klumb account has been closed and funds were deposited into the checking account
- Schmulbach - \$13,850.17
- Will Sayler Memorial Fund - \$1,550
 - o Will Sayler Memorial funds have been deposited into the checking account

SDSU Student Subunit Report

- Selling tickets at the banquet for the Sauger Scholarship

VCSU Student Subunit Report

- Selling tickets at the banquet for the Northern Pike Scholarship

Committee Reports

Awards and Nominations – Scott Gangl

- Will be presenting awards at the 2022 banquet

Continuing Education

- 16 attendees at the 2022 continuing education

Information and Web Support

- No report, Dylan Turner was not present

Student Affairs

- No report

Environmental Concerns – Jake Davis

- Planning to have a future symposium and guest speaker for environmental concerns

Membership - Matt Ward

- Membership list keeps growing
- Working on updating 2022 membership list

Resolutions

- No report

NCD Committee Reports

Walleye Technical Committee - Mark Fincel

- Summer business meeting to be held in Iowa

Centrarchid Technical Committee – Will Radigan

- Will Radigan not present but is planning to organize a symposium in SD

Esocid Technical Committee - Brian Blackwell

- Brian is seeking a new representative in the future to take his place

Ictalurid Technical Committee - Cameron Goble

- There is enough revenue to establish a grant for catfish research

Rivers and Streams Technical Committee - Josh Wert

- No report, Josh Wert was not present

Old Business

Membership dues discussion

- Historic dues were used to print and distribute newsletter, but it is now electronically distributed
- Registration costs should be used to cover membership dues in the future
- Need to define what constitutes membership, bylaws can establish whether a fee is charged
- A motion was made to suspend membership dues, a vote in favor of the motion was accepted
- A motion was made to define membership in good standing is one who registers for the annual meeting 1 in every 4 years, a vote in favor of the motion was accepted

New Business

Affiliate membership discussion

- The parent society wants Dakota Chapter members to share their contact information for the purpose of recruiting
- Future registration should have a check box that will give consent for Dakota Chapter members to share their contact information with the parent society

One-day registration for students near a university who want to attend annual meeting discussion

- Consider partial registration to cover just the cost of meals instead of full registration cost

Will Sayler memorial funds discussion

- Fund could be used to help registration costs for students
- Fund could be used for hatchery/fish production award

Shift PayPal duties on the Dakota Chapter website to the secretary/treasurer discussion

- Future secretary/treasurer should have access to PayPal account

Election of Officers

- President-elect Brian Blackwell
- Vice President Russ Kinzler
- Secretary/Treasurer Cameron Goble
- A motion made for unanimous ballot, a vote in favor of the motion was accepted

Adjournment at 1730

Chapter Officers 2021-2022

President

BJ Schall

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Paul Bailey

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Standing Committees

Planning

BJ Schall (chair, SD)
Scott Gangl (ND)
Jeremy Kientz (SD)
Paul Bailey (ND)

Continuing Education

Dan James (co-chair, SD)
Greg Power (co-chair, ND)
John Lott (SD)
Dave Lucchesi (SD)

Environmental Concerns

Vacant (co-chair, SD)
Michael Johnson (co-chair, ND)

Student Affairs

Bryce Capesius (SDSU)
Sanden O'Connell (VCSU)

Information and Web Support

Dylan Turner (SD)

Membership

Matt Ward (chair, SD)
Casey Williams (ND)

Awards and Nominations

Scott Gangl (chair, ND)
Jeremy Kientz (SD)
Joshua Wert (ND)
Steve Chipps (SD)

Resolutions

Chelsey Pasbrig (SD)
Gene Galinat (SD)

Technical Committee Representatives

Walleye Tech Committee

Mark Fincel (SD)
Todd Caspers (ND)

NCD Centrarchid Tech Committee

Will Radigan (ISU)

NCD Escocid Tech Committee

Brian Blackwell (SD)

NCD Ictalurid Tech Committee

Cameron Goble (SD)

NCD Rivers and Streams Tech Committee

Joshua Wert (ND)

2022 Dakota Chapter Awards

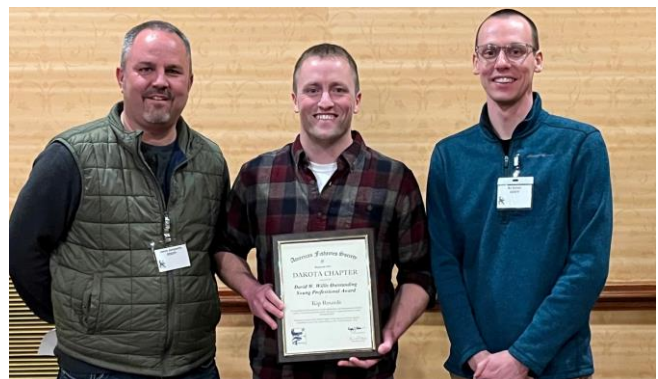
Jake Davis is presented the Robert L. Hanten Distinguished Professional Service Award by Steve Chipps and BJ Schall



Dylan Gravenhof receives the David W. Willis Outstanding Young Professional Award from Mike Smith and BJ Schall



Kip Rounds receives the David W. Willis Outstanding Young Professional Award from Jason Jungwirth and BJ Schall



Jeremy Kientz receives a Certificate of Appreciation for serving as Chapter President from Scott Gangl



Scott Gangl receives a Certificate of Appreciation for serving as Chapter President from BJ Schall



Joe Nett receives a Certificate of Appreciation for serving as Chapter Vice President



Pictured L-R: Amy Gebhard (Best Professional Poster), Paul Bailey (Best Professional Paper), Logan Cutler (Best Student Poster), Lindsey LaBrie (Best Student Paper), and Julia Hampton (Best Student Paper).

Riley Mounsdon receives The Dr.
James C Schmulbach Memorial
Scholarship from John Carreiro



Hannah Mulligan receives The Dr.
Robert A. Klumb Memorial
Scholarship from Steve Chipps
and BJ Schall



Northern Pike Scholarship recipients pictured L-R: Gaddum Reddy, Regina Wiechelman,
President Schall, Sanden O'Connell, Skylar Yarbro, and Chase Bladow.



Sauger Scholarship recipients pictured L-R: Lauren Alex, Riley Mounsdon, Kenneth
Jimerson, and President Schall. Not Pictured: Bryce Capesius.

Special Issue:
Effects of Ecosystem Change on North American Percid Populations
North American Journal of Fisheries Management
Volume 42; Issue 3

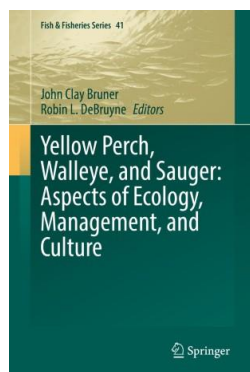
[Special Section: Effects of Ecosystem Change on North American Percid Populations: North American Journal of Fisheries Management: Vol 42, No 3 \(wiley.com\)](http://wiley.com)

This special issue resulted from a Walleye Technical Committee Symposium at the 2001 Midwest Fish and Wildlife Conference. The Dakota Chapter contributed \$1,000 and numerous present and past Chapter Members participated in this endeavor.



New Percid Book

Bruner, John Clay, and Robin L. DeBruyne. 2021. Yellow Perch, Walleye, and Sauger: Aspects of Ecology, Management, and Culture. Springer Fish & Fisheries Series book series (FIFI, volume 41):i-xii, 328 pp.



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Yellow Perch, Walleye, and Sauger: Aspects of Ecology, Management, and Culture

Editors (view affiliations)

John Clay Bruner Robin L. DeBruyne

Most recent research

Two main species with multiple life stages included

Large geographic range covered

Multiple aspects included (management, policy, aquaculture, genetics, etc)

New methods of culture —

Book

Part of the Fish & Fisheries Series book series (FIFI, volume 41)

Buying options

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Preface

Chapter Reviewers

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Yellow Perch (*Perca flavescens*)

Pages 1-1

Spawning Characteristics of Yellow Perch During Periods of Water Level Fluctuations in a Hydropower Reservoir

Kyle J. Matt, Stuart A. Welsh, Dustin M. Smith

Pages 3-32

A Comparison of Aquaculture Production Methods for Optimizing Production of Fingerling Yellow Perch (*Perca flavescens*)

Cathleen M. Doyle, David A. Culver, Morton E. Pugh, Jesse E. Filbrun

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