



North American River Otters

Renn Tumlison



North American River Otters:

North American River Otter, 1995 **North American River Otter** Ellen Lawrence, 2016-08 Introduces the behaviors and characteristics of the North American river otter *Playful Slider* Barbara Juster Esbensen, 1993 Explores the world of the North American river otter describing the playful mammal's behavior and characteristics **North American River Otters** John Becker, 2002 Discusses the near extinction return and future of river otters Current Distribution of North American River Otters in Central and Eastern Oklahoma, with Seven New County Records Dominic Alan Barrett, D. M. Leslie, Texas Tech University. Museum, Texas Tech University. Natural Science Research Laboratory, 2010 In 1984 and 1985 the Oklahoma Department of Wildlife Conservation reintroduced North American river otters *Lontra canadensis* from coastal Louisiana into eastern Oklahoma Those reintroductions and immigration from Arkansas and possibly northeastern Texas allowed river otters to become reestablished in eastern Oklahoma Our goals were to determine the contemporary distribution of river otters in central and eastern Oklahoma with voucher specimens sign surveys and mail surveys and to compare proportion of positive detections among watersheds We report new distributional records with voucher specimens from seven counties Adair Bryan Coal Johnston McIntosh Okfuskee Tulsa in Oklahoma We also provide locality information for specimens collected from four counties Haskell McCurtain Muskogee Wagoner where river otters were described in published literature but no voucher specimens existed During winter and spring 2006 and 2007 we visited 340 bridge sites in 28 watersheds in eastern and central Oklahoma and identified river otter signs in 16 counties where river otters were not previously documented in published literature or by voucher specimens Proportion of positive sites within each watershed ranged 0 100% Mail surveys suggested that river otters occurred in eight additional counties where they were not previously documented by published literature voucher specimens or sign survey efforts **An Annotated Bibliography on the North American River Otter** Renn Tumblison, 1985 **North American River Otter (*Lontra Canadensis*) Presence and Habitat Analysis in Florida as Compared to Historical Data** Samantha Wilber, 2015 North American river otters are considered common in the state of Florida but their populations have not been studied since the 1980's Since that time Florida's human population has more than doubled and many natural areas of Florida have been developed The aim of this study was to determine the presence or absence of river otters at locations in Florida which they historically inhabited Forty six sample sites where otters were historically found were obtained from the Florida Museum of Natural History Mammals Master Database FMNH MMD These sites were condensed to two focus areas in and around Alachua and Collier Counties where the sites were most highly clustered Each site was surveyed to determine the presence or absence of river otters and to determine the suitability of the site's environment for otter habitation Sites with favorable habitat features for otters were surveyed a second time River otters were not found at any site Only 9 of the 46 sites had permanent water and only 8 of those had other habitat features preferred by otters Therefore only 17 39% of sites that historically supported otters likely

still have the ability to do so Loss of water over time is most likely the result of human disturbances such as the draining damming and canalizing of wetlands As a result of this loss of natural habitat river otters have become increasingly common in urban areas wither preferred habitat features even if they are man made The increased presence near humans may have led to the apparently inaccurate assumption that otters are common and therefore do not need protection

Population Demographics and Diet Variation of the North American River Otter (*Lontra Canadensis*) in Ohio, USA

Sara A. Adamczak, 2019 The North American river otter *Lontra canadensis* is a semi aquatic apex predator that has undergone vast changes in its distribution in the past few decades In the Midwest river otters were extirpated and later reintroduced with little follow up on their population status It is important to assess the current population in order to make the proper management decisions statewide In addition to the lack of demographic knowledge spatio temporal variation in the North American river otter *Lontra canadensis* diet is not well understood As resource availability and usage can influence population demographics it is important to assess river otter diet to properly understand river otter ecology In order to assess the river otter population in Ohio the Ohio Department of Natural Resources ODNR requested carcass submission by licensed trappers Throughout the 2016 2017 and 2017 2018 trapping seasons 107 river otter carcasses were collected Necropsies were performed to assess age and sex reproductive status and stable isotope informed diet composition Reproductive rates were determined from counting corpora lutea in female river otters Demographic data were compared to the 2005 2008 harvests seasons when river otter trapping was first reinstated Samples of river otter muscle were collected prepared and assessed for stable isotopes of ^{13}C and ^{15}N to estimate the variability in the dietary contribution of multiple prey sources by age sex and location

A Non-invasive Approach Examining North American River Otter Abundance and Sociality

Kristin E. Brzeski, 2010 Determinants of Social Behavior in Captive North American River Otters (*Lontra Canadensis*) Olivia R. Beasley, 2018 While scientists have conducted some behavioral research on wild river otters detailed studies of interactions are difficult for a species that ranges widely A full understanding of river otter social patterns requires captive studies however as yet few such studies have been done To help fill this gap we carried out a study of the social behavior of a group of captive river otters We tested three hypotheses first that male otters would engage in more social behavior than females second that most social behavior among conspecifics would occur during the early evening and third that most social behavior would occur in the terrestrial portion of the exhibit analogous to latrine sites Data were collected at the Tennessee Aquarium in Chattanooga TN over 8 weeks in June July 2017 Abstract leaf ii Resilience and Sensitivity to Changing Environments in North American River Otters (*Lontra Canadensis*) Danaan DeNeve Weeks, 2020 The North American river otter is a semiaquatic carnivore that occupies freshwater habitats across most of North America and is a conservation symbol across most of its range It is used as an indicator species a keystone species an umbrella species and an example of conservation success The broad distribution of river otters suggests a broad range of habitat tolerances but they

appear to be highly sensitive to anthropogenic habitat alterations. This apparently conflicting robustness across habitat types and sensitivity to habitat change has baffled researchers for decades. Using morphometric modeling and synthetic approaches, I explored how otters relate to their environment on a broad scale to gain a better understanding of the conditions to which they are robust, the conditions to which they are sensitive, and the mechanisms by which they adapt to varying environments. Using Maximum Entropy species distribution models, I determined that river otter distributions are not strongly affected by climate or macro environmental variables. Using geometric morphometric methods to examine how cranial shape varies across geographic and ecological space, I determined that morphological variation, which may affect feeding and locomotion, occurs more intensely at local than broad scales, indicating local morphological adaptation is not strong in this species. Finally, a review of the phylogeography and ecology of river otters and related species indicated that this species evolved from a low speciation lineage that tends to produce species that can occupy a wide variety of environments without undergoing evolutionary change. Overall, I determined that river otters do indeed have a broad ecological niche and do not respond strongly to climatic or environmental differences or changes across their habitats through altering their distributions or locally adapting. Evidence suggests that river otters may respond strongly to anthropogenic alterations of their habitats because anthropogenically induced habitat alterations tend to have strong consequences for aquatic food chains, and otters may be more reliant on robust food webs than they are on other aspects of their habitats. These findings have implications for how we think of otter conservation and the conservation of species and ecosystems that are strongly affected by otter presence, as well as what otters indicate about their habitat quality. Additionally, these results may shed light on the ecologies of other mustelid carnivores. In the first chapter of my dissertation, I conducted a review of the phylogenetics and biogeography of North and South American river otters to investigate how geography and environmental change have driven river otter evolution in the Americas and how this informs the ecology of the modern species. I focused first on reviewing the biogeography and evolutionary history of *Lontra* and *Pteronura* and then on the modern ecology, threats, and conservation status of each of the four modern species of *Lontra* and the single extant species of *Pteronura*. I chose to review these species because they overlap in geographic and environmental space and because their shared history provides means for an evolutionarily grounded examination of relative rarity, specialization, and level of conservation concern. I found that speciation between American otters primarily occurs allopatrically, and there is little functional differentiation in response to allopatric speciation, though they do appear to have the ability to adapt in response to extreme conditions when necessary. Additionally, allopatric speciation primarily occurs in response to changes in waterway connectivity, which is also responsible for changes in population connectivity within the modern species. Most otters have less specific habitat requirements than previously thought, as all species of *Lontra* persist across a wide variety of climates and semi-aquatic environments, and most of them do so without exhibiting a strong evolutionary response. All American river

otters exhibit a strong sensitivity to anthropogenic habitat destruction though several of them have also shown some ability to coexist with humans Evidence from this study provides strong indication that this has to do with how human activities near waterways affect food webs and more generally that on closer examination many habitat components previously thought to be requirements for otters may be better interpreted as indicators of food availability In the second chapter of my dissertation I use species distribution modeling to examine river otter associations with climate and environment across their range to explore their apparently conflicting robustness to habitat change and sensitivity to human presence Specifically I examined the climate and landcover variables that constrain the geographic distribution of otters I obtained otter occurrences from GBIF and BISON biodiversity databases climate variables from BIOCLIM and environmental layers from NASA's SEDAC program I built Maximum Entropy species distribution models at 80 and 150 km spatial thinning and varying numbers of background points The combined model at 80 km spatial thinning and default number of background points produced the highest quality models Six climatic and landcover variables explained over 10% of otter distributions each open shrubland net primary productivity urban built water annual mean temperature and precipitation of coldest quarter Of these variables I determined that water annual mean temperature and precipitation of coldest quarter likely have biological significance However the predicted range map generated by these models do not match river otter distributions generated by the IUCN and NatureServe This is likely due to incomplete occurrence data because of low reporting in parts of the species range I conclude based on these data that river otters have broad climatic and habitat tolerances as there are six weakly predictive variables as opposed to 1-2 strongly controlling variables and that local habitat factors such as intactness of riverine food webs may have greater impact on otter distributions than broad regional variables Additionally I call for improved monitoring and reporting of this and other broadly distributed species to ensure we can adequately track their habitat requirements and conservation status In the third chapter of my dissertation I use geometric morphometrics to explore the role of cranial morphological variation in otter persistence across the array of otter habitats I address two research questions 1 Is there morphological variation and structure in river otters across subspecies 2 Is morphological variation in river otters best explained by a pattern of isolation by distance or isolation by ecology I obtained 100 river otter crania from across the species range from museums I 3D scanned them using a Geomagic 3D scanner and landmarked them using the IDAV Landmark program To answer Q1 I conducted discriminant function analyses Procrustes ANOVAs and a Principal Components Analysis None of these tests revealed strong morphological patterning indicating there is not morphological differentiation across subspecies in cranial shape To address Q2 I conducted Mantel tests and a Multiple Matrix Regression with Randomization (MMRR) on the relationship between morphological distance and geographic climatic and environmental distance Both the Mantel test and the MMRR results indicated no significant relationship between morphological distance and climatic or environmental distance in otter crania Both indicated a weak but negative

relationship between morphological distance and geographic distance indicating morphological variation is greater at short geographic distances and lower at broad geographic distances I conclude that there is significant cranial variation between individuals but little definable structure in this variation The weak but significant and potentially complex relationship between geographic and morphological distance indicates the possibility that diversifying selection across smaller spatial scales may be more important than differentiation across broader populations possibly indicating individual specialization within a generalist population

River Otters: Aquatic Clowns Dr. Richard A. NeSmith, 2020-08-12 Do you ever wonder about the life of otters Do you know where they sleep Do you want to learn about their social behaviors diet or how they swim through the water so gracefully Anything and everything you ever wondered about these curious creatures can be found in this easy to read informative book The wonderful pictures included in this book have captured some of the many reasons people are drawn to these adorable animals over the years I have personally worked with many different animals and I can honestly say that otters are genuinely one of the most interesting of the animal kingdom Once you read this book you will understand why I as well as many others have a fascination with otters Laurie Aleixo DVM Fort Pierce Florida

Analysis of Parameters Used to Evaluate the Health of Recently Captured North American River Otters (*Lontra Canadensis*) Involved in a Population Restoration Project Kevin Ross Kimber, 1998 Food Washing in Captive North American River Otters (*Lontra Canadensis*) Evelyn Neunteufel, 2007 **Wild Mammals of North America** George A. Feldhamer, Bruce C. Thompson, Joseph A. Chapman, 2003-11-19 Table of contents **North American River Otters** Sea World, 1993

An Overview of Research on the North American River Otter Wayne E. Melquist, Idaho. Department of Fish and Game, 1985 This report presents an overview of the type of research that has been conducted on river otters since 1977 The data were obtained from a mail survey using a questionnaire sent in May 1984 to the principal wildlife agency for each state except Hawaii and each Canadian province the U S Fish and Wildlife Service Cooperative Wildlife Research Units and individuals involved with river otter research Factors Affecting the Detectability and Distribution of the North American River Otter, 2009 The North American river otter *Lontra canadensis* was extirpated throughout much of its range but is now recovering in many areas Consequently there is a need to determine river otter occupancy and habitat associations We conducted sign surveys from January to April 2008 and 2009 in eastern Kansas to assess how local and landscape scale habitat affects river otter occupancy and how survey methods and habitat affect the detectability of river otter sign Multiple observers surveyed 3 9 400 m stretches of stream and reservoir shorelines for 110 randomly selected sites and measured local scale within a 100 m buffer of site habitat variables e g stream order sinuosity proportion of land cover types and landscape scale Hydrological Unit Code 14 watershed habitat variables e g road density shoreline diversity proportion of land cover types We then modeled occupancy and detection probability as a function of these covariates using Program PRESENCE The overall probability of occupancy accounting for detection probability was 0 329 The best fitting

model indicated river otter occupancy increased with the proportion of woodland cover and decreased with the proportion of cropland and grassland cover at the local scale The best fitting model also indicated occupancy increased with decreased shoreline diversity waterbody density and stream density at the landscape scale possibly because of the influence of large reservoirs in the watershed Occupancy was not affected by land cover or human disturbance at the landscape scale perhaps due to our relatively homogeneous study area or because river otters are habitat generalists Detection probability for 400 m surveys was highest in mud substrates p 0 600 and lowest in snow p 0 180 and litter substrates p 0 267 Detection probability for scat was more than double that for tracks and detection probabilities were 17 64% lower for novice observers than experienced observers Detection probability also increased with survey length Sign surveys are a useful technique for monitoring many species including river otters and accounting for detection probability will improve estimation of occupancy Furthermore understanding the ecological factors and the scale important to river otter occurrence will be useful in identifying areas for restoration and management efforts

River Otters After Dark Heather Moore Niver, 2016-07-15
Midnight snacks aren't just for people River otters splash into the water at night searching for their next meal Full page color images and engaging narrative showcase the playful and industrious river otter Read about its behavior habitat family life and unique adaptations Text features include Words to Know at the opening of the book and a Stay Safe section to inform readers how to act if they encounter a river otter in the wild

Recommendations for the Successful Captive Breeding of North American River Otters (*Lontra Canadensis*), 2015 The North American river otter *NARO* *Lontra canadensis* is a semi aquatic mammal found in the wild throughout North America and captive at many institutions throughout the world The Association of Zoos and Aquariums AZA captive *NARO* population represents an important feature species that attracts many patrons to zoological institutions *NAROs* are rarely taken from the wild so captive breeding programs are being utilized to increase the captive population These captive breeding programs are overseen by the AZA to ensure the genetic diversity of the captive populations and to encourage proper care and management of the animals Captive breeding however is not always successful In fact captive breeding of mustelidae members of the weasel family has been a learning experience for all involved as seen by the easy success of the Black footed ferret *Mustela nigripes* the hit or miss success of the North American river otter *Lontra canadensis* and the lack of success with the sea otter *Enhydra lutris* This research project was initiated to identify factors such as geographic origin of the breeding pair and zoological practices that contribute to successful captive breeding Observations of the Pueblo Zoo Pueblo CO *NAROs* and their zoological practices were conducted as part of this study This information was used to create a survey which asked specific information about the captive *NAROs* and the zoological practices that impact their captivity The survey was then sent to all AZA institutions that house and attempt breeding with their captive *NAROs* Results from the 30 responding AZA institutions indicate that having two *NAROs* from similar geographic locations both in proximity and latitude of origin aids in successful captive breeding No single zoological

practice was demonstrated to have a significant impact on successful captive breeding. Despite low response rate, the evidence suggests that successful captive breeding is more likely to occur between NAROs from similar locations and that, as expected, providing a healthy environment that meets all biological needs may aid in successful captive breeding.

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