

Upper Mississippi River

National Wildlife and Fish Refuge

Furbearer Harvest Summary Report

(1996-97 through 2015-16 trapping seasons)



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Upper Mississippi River National Wildlife and Fish Refuge Furbearer Harvest Summary Report

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Chapter 1: Introduction and Background

The Upper Mississippi River National Wildlife and Fish Refuge (refuge) was established by an Act of Congress in 1924 for the purposes of providing a refuge and breeding place for migratory birds, fish, fur-bearing animals, other wildlife, and plants. The refuge encompasses approximately 240,000 acres in four states (Iowa, Illinois, Minnesota, and Wisconsin) in a more-or-less continuous stretch of 261 river-miles of Mississippi River floodplain from near Wabasha, Minnesota to near Rock Island, Illinois.

The refuge is divided into four districts for management, administrative, and public service effectiveness and efficiency. The refuge is also divided geographically by river pools that correspond with the navigation pools created by the series of locks and dams on the Upper Mississippi River. The Winona District administers Pools 4-6, the La Crosse District administers Pools 7-8, the McGregor District administers Pools 9-11, and the Savanna District administers Pools 12-14. The refuge has an overall headquarters office that provides support to the districts.

Furbearing trapping on the refuge has a long-standing tradition with regulated trapping occurring within its boundaries since 1929. Regulated furbearer trapping is considered a compatible use on the refuge as it contributes to the goals of the refuge's furbearer management program. These goals include sustaining healthy furbearer populations and their habitats through a science-based harvest program; safeguarding refuge infrastructure critical to habitat for fish and wildlife; and continuing the traditional recreational use of refuge resources while meeting the purposes of the refuge and the mission of the refuge system. The current/existing refuge furbearer management plan (completed in 2007) which includes the Compatibility Determination can be found on the refuge's website at [http://www.fws.gov/uploadedFiles/FurbearerPlanFinal_Oct31\(1\).pdf](http://www.fws.gov/uploadedFiles/FurbearerPlanFinal_Oct31(1).pdf)

Trapping is classified as a commercial activity on the refuge and is administered through the issuance of special use permits to state-licensed individuals. Refuge trappers are issued 40 refuge trap tags, limiting

trappers to setting/tending a maximum of 40 traps per day. Each refuge trap tag must be securely attached to each trap that is set on the refuge. Refuge trap tags are not species specific, and can be used on any legal trap to target any authorized furbearing animal. Trappers may take furbearers on the refuge using traps allowed following state trapping regulations, except that the use of snares/cable-restraints and multiple-catch/colony traps are prohibited on the refuge. The refuge has other restrictions regarding tending traps, set types, use of vegetation, disturbance, etc. that appear in the special conditions attached to the trapping special use permit (Appendix A).

Furbearer trapping is allowed throughout most of the refuge, however, no trapping is allowed in Waterfowl Hunting Closed Areas, Sanctuaries, and Administrative No Hunting Zones until 9:00 a.m. the day after the last day of the regular state duck hunting season. The closed area restriction reduces the extent of disturbance to waterfowl by human activities during the hunting season, thus enhancing the ability of the refuge to provide secure resting and feeding areas for migrating waterfowl. The refuge does have locations where trapping is prohibited. These include areas adjacent to district office/maintenance facilities, hiking/biking trails with high public use, and areas where public entry is prohibited due to hazards such as environmental contaminants and unexploded ordinance (i.e. the Lost Mound Unit of the Savanna District which occupies a decommissioned military depot).

The opening dates of trapping seasons, trapping methods, and other regulations generally follow those established by each of the four states in which the refuge occurs, with a few exceptions. No trapping is allowed on the refuge before the muskrat trapping season opens. The final day of trapping on the refuge is no later than March 15. There is variability among states in regards to season length (trapping for some species are continuously open, others have established dates), trapping zones, and species open to trapping. Refuge trapping season dates for muskrat, mink, raccoon, beaver, and river otter are located in Appendix C, tables 1-5.

Factors affecting furbearer harvest on the refuge include length of trapping seasons, population size, fur pelt prices (Appendix E, tables 12-15), weather conditions, habitat changes, extent of aquatic vegetation coverage, and trapping effort. Most furbearer trapping targets the following species: muskrat, mink, raccoon, beaver. Other species taken include river otter, opossum, coyote, skunk, and red fox. The vast majority of trapping occurs within wetland habitats.

In this report 20 years of data is provided for the refuge's furbearer management program, representing trapping activities conducted each year from the 1996/1997 trapping season through the 2015/16 trapping season. Throughout this report this time period will be referred to as the "20-year period of record".

Chapter 2: Methods

Beginning in October of each year and continuing through the refuge trapping season, the four district offices issue trapping special use permits to trappers interested in trapping on the refuge. The trapper must apply in person at the district office and present their valid state trapping license to the refuge staff administering the trapping special use permit. The district office verifies that the trapper is eligible, has no previous trapping or other refuge violations that prohibit receiving a trapping special use permit, and collect the appropriate administration fee. The fee has changed during this 20-year period of record. From 1996-1999 the fee was \$15.00 for all trappers, increasing to \$20.00 for all trappers from 2000-2007, and then following the implementation of the refuge's Furbearer Management Plan the fee was increased to \$30.00 for adults and \$5.00 for youth under the age of 18 from 2008-2015.

Refuge trappers receive the signed trapping special use permit that must be carried with them at all times while actively trapping on the refuge. The refuge trapper receives 40 trap tags that are specifically stamped with the corresponding refuge trapping permit number. The district office reviews the specific refuge trapping restrictions and regulations outlined in the special conditions with the trapper. Refuge trappers are reminded verbally and in writing that the submission of the refuge fur catch report is mandatory. In addition to the reminders that the refuge district staff gives to the trappers upon issuance of the trapping special use permit, the refuge headquarters office sends a postcard reminder on April 1st to those trappers that have failed to submit a fur catch report. Failure to submit a fur catch report by April 15th following the refuge trapping season is sufficient means to revoke trapping privileges in the subsequent trapping season. All fur catch reports are sent by mail directly to the refuge headquarters biologist. These reports provide data on the number and distribution of furbearers harvested, distribution of trappers, and rudimentary catch per unit effort (efficiency) estimates on the refuge (Appendix B). Data from individual fur catch reports are

summarized into annual refuge furharvest reports and into this comprehensive 20-year report.

Some trappers who obtain permits do not actively trap during the trapping season for various reasons. The refuge harvest data tables and graphs included in this report are based upon active trapper's fur catch reports (self-reported). Active trappers are defined as those who trap at least one day per season.

Furbearer pelt prices often dictate which specific furbearers trappers tend to target each trapping season. Pelt prices are mainly driven by demand from foreign countries/markets. Many factors including economic conditions, monetary exchange rates, and the severity of winters in countries overseas contribute to volatile changes in furbearer pelt prices. Each state Department of Natural Resources (DNR) collects furbearer harvest information and average prices paid for furbearers from the state-licensed furbuyers in their respective state. Annual state Fur Harvest Survey/Fur Buyers reports summarize the results from the surveys of the state-licensed furbuyers. These reports were used to calculate the four state average of the pelt prices listed in this report. All graphs depicting average fur pelt prices in this report use the composite four state average fur pelt price. The average fur pelt prices for muskrat, mink, raccoon, and beaver for each state are located in Appendix E, tables 12-15.

Chapter 3: Trapping Effort

The refuge has issued an average of 335 trapping special use permits per trapping season during the 20-year period of record. The most recent 2015-16 trapping season had the lowest number of permits issued (202) since the mid 1940's. The average number of active trappers on the refuge per trapping season was 277 trappers (or 83% of the trappers issued refuge permits) during the 20-year period of record (Figure 1).

State and district specific information on the number of permits issued and the number of active trappers are located in Appendix D, tables 6–11. Roughly one half (49%) of the active trappers are from Wisconsin, 23% from Iowa, 17% from Minnesota, and 11% from Illinois (Figure 2). The average number of traps used per day per active trapper was 28 and the average number of days trapped per active trapper was 21 during the 20-year period of record (Figure 3).

Figure 1. Number of trapping special use permits issued and number of active trappers on the refuge during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

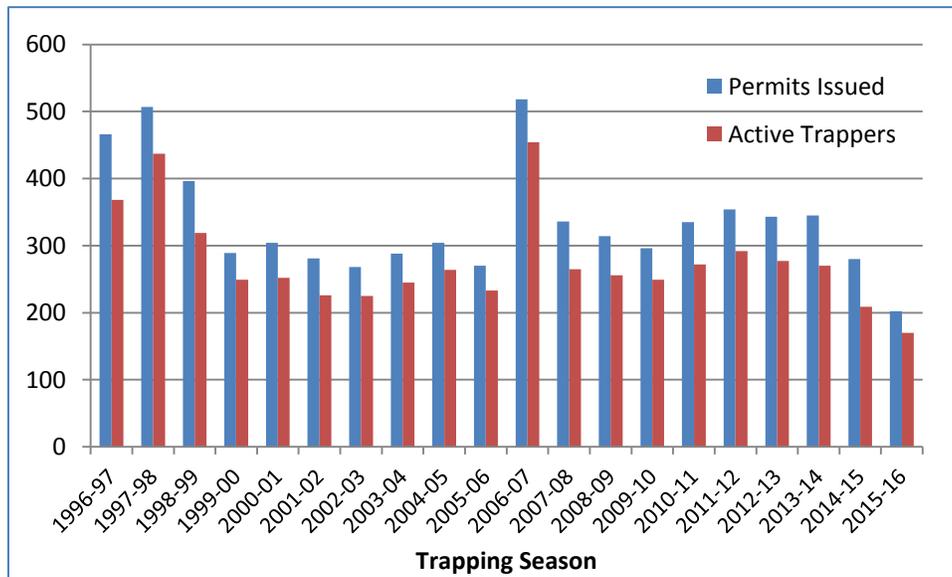


Figure 2. Percentage of active trappers on the refuge from each state during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

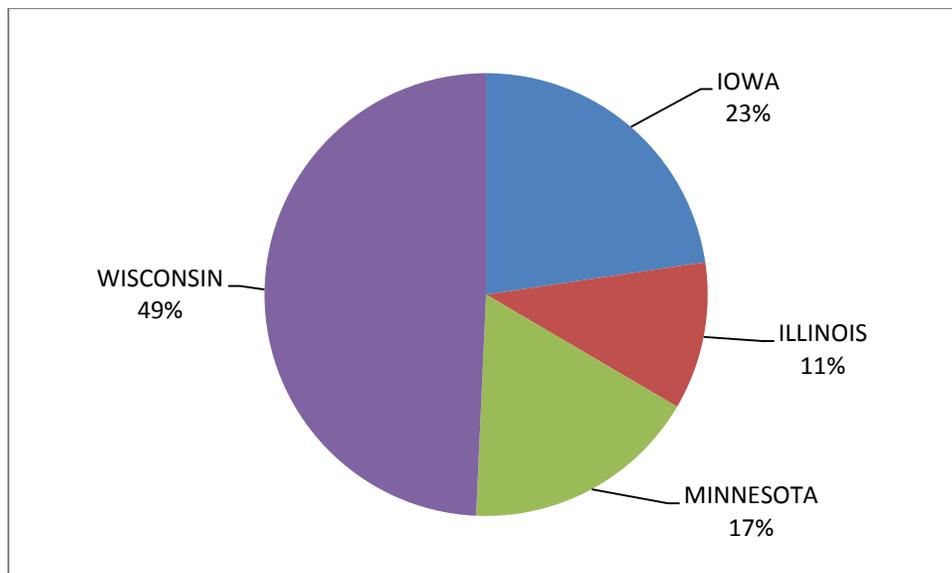
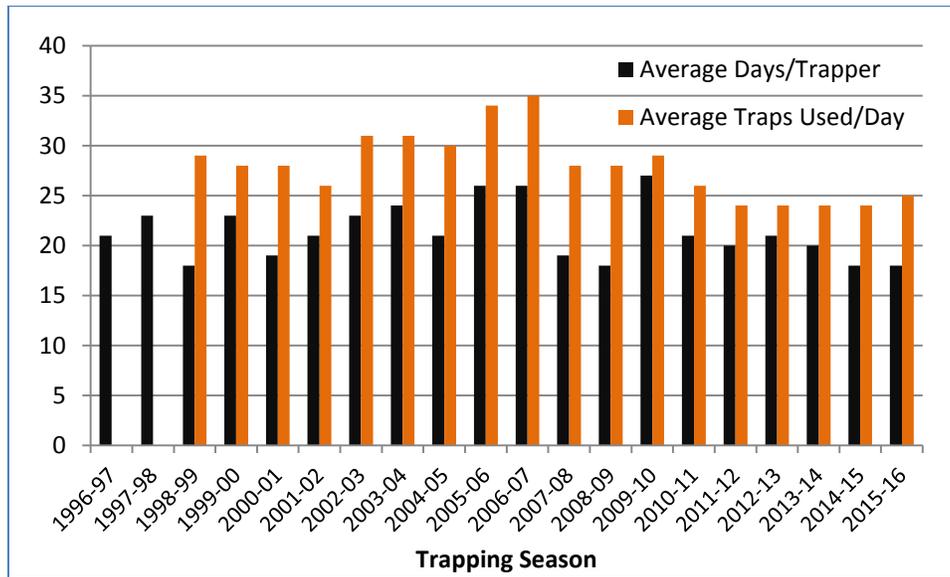


Figure 3. Average number of days trapped and average number of traps used per day on the refuge by active trappers during the 20-year period of record. Active trappers are defined as those who trap at least one day per season. Information on the number of traps used per trapper was not collected until the 1998-99 trapping season.



Chapter 4: Furbearer Harvest

4.1: Muskrat Harvest

The average length of the refuge muskrat trapping season by state/zone ranged from 79 to 122 days during the 20-year period of record (Figure 4). Refuge muskrat

trapping season dates by state/zone are located in Appendix C, table 1. The average muskrat pelt prices/trapping season ranged from \$1.44 to \$8.95 during the 20-year period of record (Figure 5). The average muskrat pelt prices for each state are located in Appendix E, table 12.

Figure 4. Average season length (days) of muskrat trapping seasons on the refuge by state and zone. MZ = Mississippi River Zone, SZ = Southern Zone.

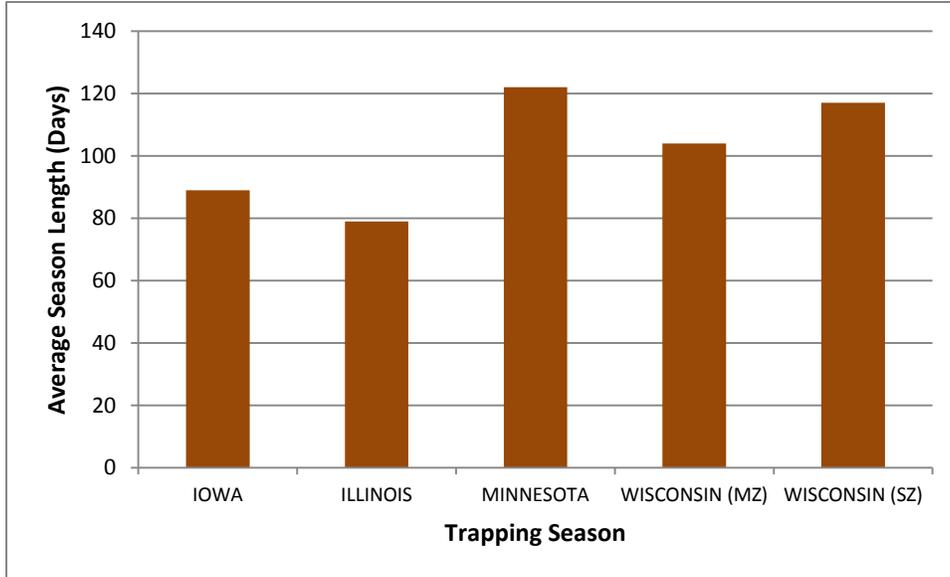
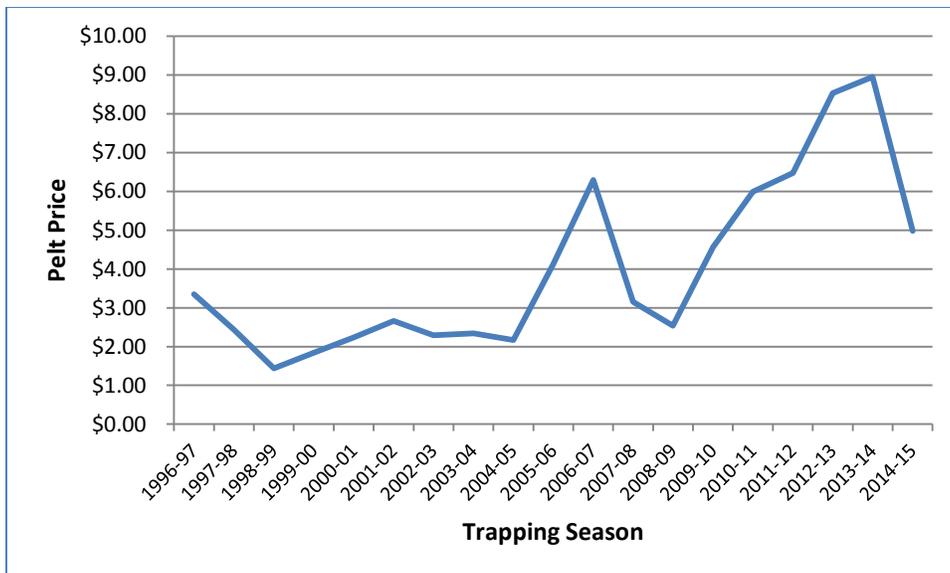


Figure 5. Average muskrat pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.



The muskrat harvest on the refuge ranged from 17,910 to 104,179 per trapping season with an average muskrat harvest of 39,349 per trapping season during the 20-year period of record (Figure 6). The average muskrat harvest has been greatest in Wisconsin (58%), followed by Minnesota (18%), Iowa (16%), and Illinois (8%) during the 20-year period of record (Figure 7 and Appendix F, table 16). The average muskrat harvest has

been greatest in the McGregor District (13,285), followed by the La Crosse District (12,756), Winona District (8,282) and Savanna District (5,026) during the 20-year period of record. The average muskrat harvest was greatest in Pools 9 (7,616), 8 (7,432), and 7 (5,324) (Figure 8). District specific muskrat harvest numbers by pool and by state are located in the Appendix F, tables 17-20.

Figure 6. Muskrat harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

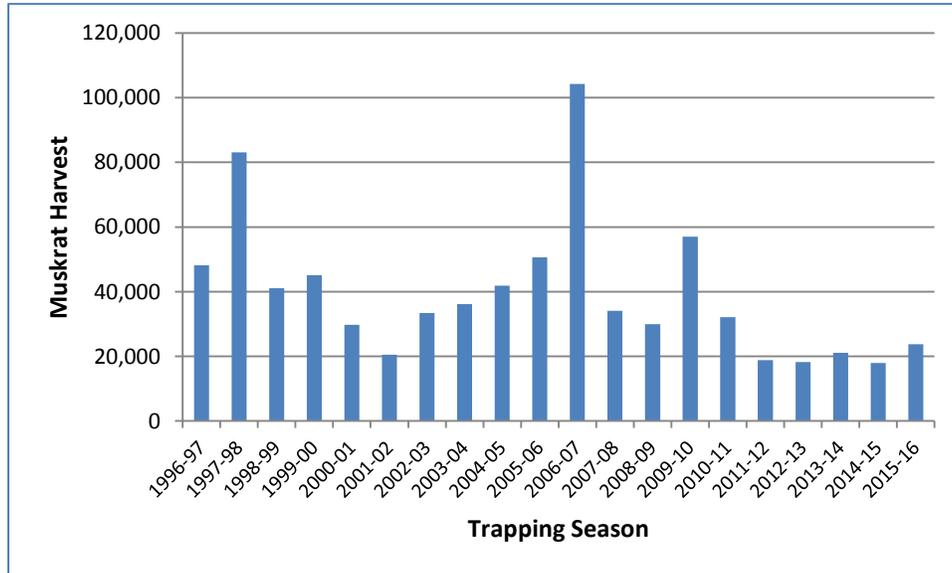


Figure 7. Percentage of the average number of muskrats harvested by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

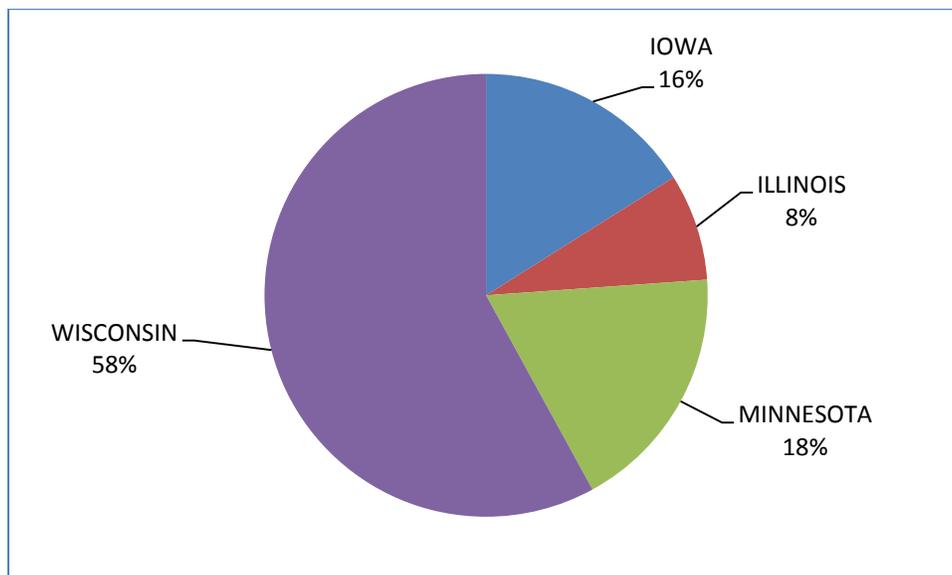
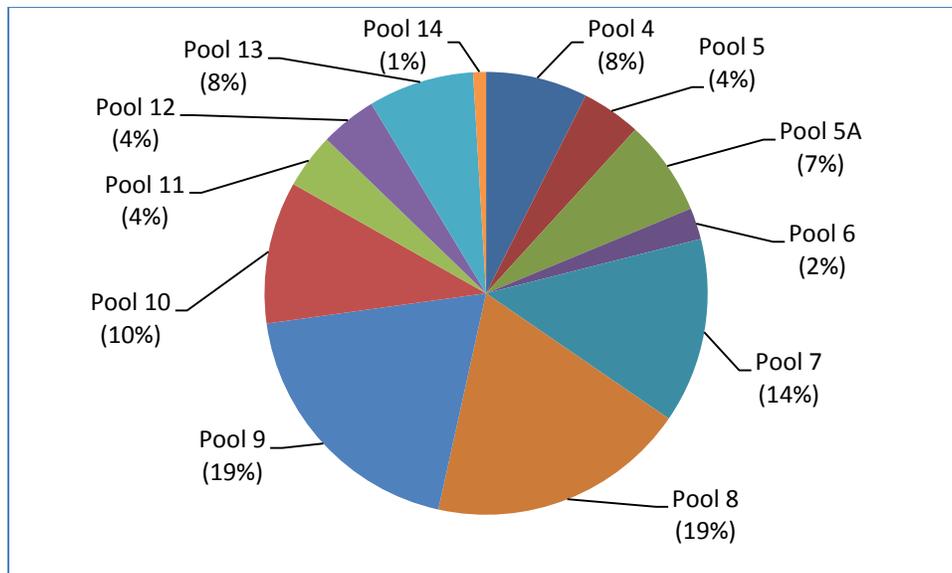


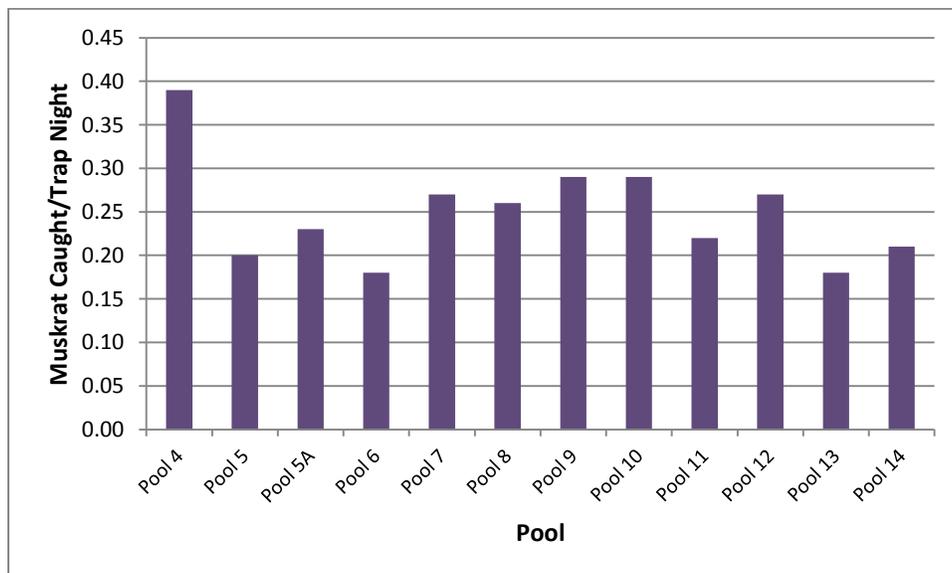
Figure 8. Percentage of the average number of muskrats harvested by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.



The average number of muskrats caught on the refuge per trap night was 0.25 (among trappers who appeared to be targeting muskrats and not other furbearers). The average muskrats caught per trap night by pool ranged

from 0.18 (Pools 6 and 13) to 0.39 (Pool 4) during the 1998-99 to 2015-16 trapping seasons (Figure 9 and Appendix F, table 21).

Figure 9. Average muskrat trapped per trap night by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports. Information on the number of traps used per trapper was not collected until the 1998-99 trapping season.



4.2: Mink Harvest

The average length of the refuge mink trapping season by state/zone ranged from 79 to 122 days during the 20-year period of record (Figure 10). Refuge mink trapping season dates by state/zone are located in

Appendix C, table 2. The average mink pelt prices/trapping season ranged from \$8.34 to \$17.55 during the 20-year period of record (Figure 11). The average mink pelt prices for each state are located in Appendix E, table 13.

Figure 10. Average season length (days) of mink trapping seasons on the refuge by state and zone. MZ = Mississippi River Zone, SZ = Southern Zone.

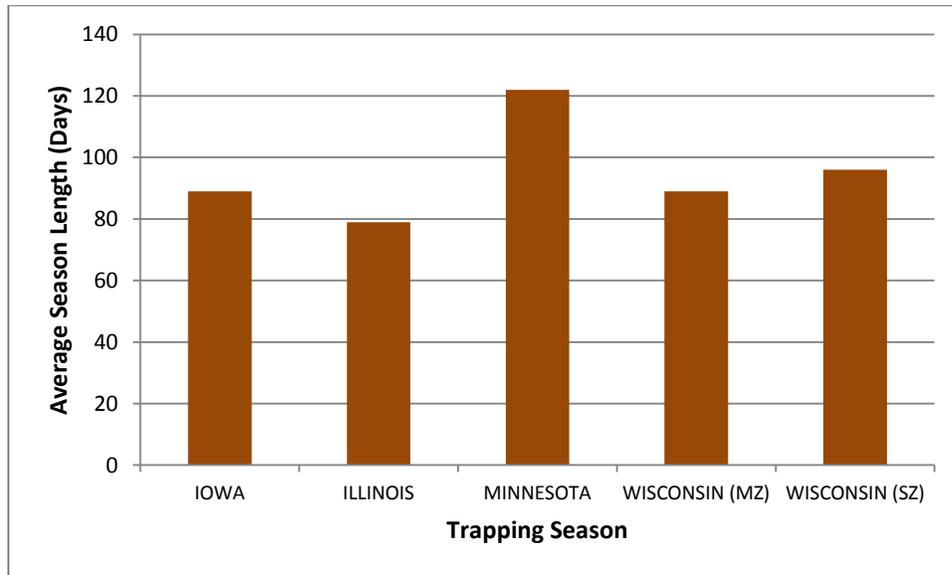
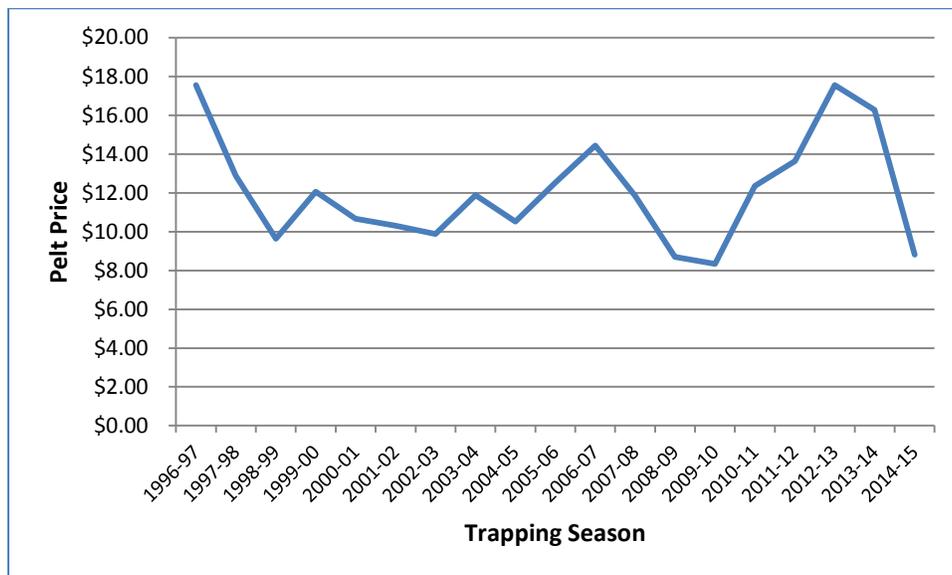


Figure 11. Average mink pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.



The mink harvest on the refuge ranged from 138 to 773 per trapping season with an average mink harvest of 341 per trapping season during the 20-year period of record (Figure 12). The average mink harvest has been greatest in Wisconsin (55%), followed by Minnesota (21%), Iowa (19%), and Illinois (5%) during the 20-year period of record (Figure 13 and Appendix G, table 22). The average mink harvest has been greatest in the

McGregor District (119), followed by the La Crosse District (106), Winona District (76) and Savanna District (40) during the 20-year period of record. The average mink harvest was greatest in Pools 9 (83), 8 (78), and 5A (32) (Figure 14). District specific mink harvest numbers by pool and by state are located in the Appendix G, tables 23-26.

Figure 12. Mink harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

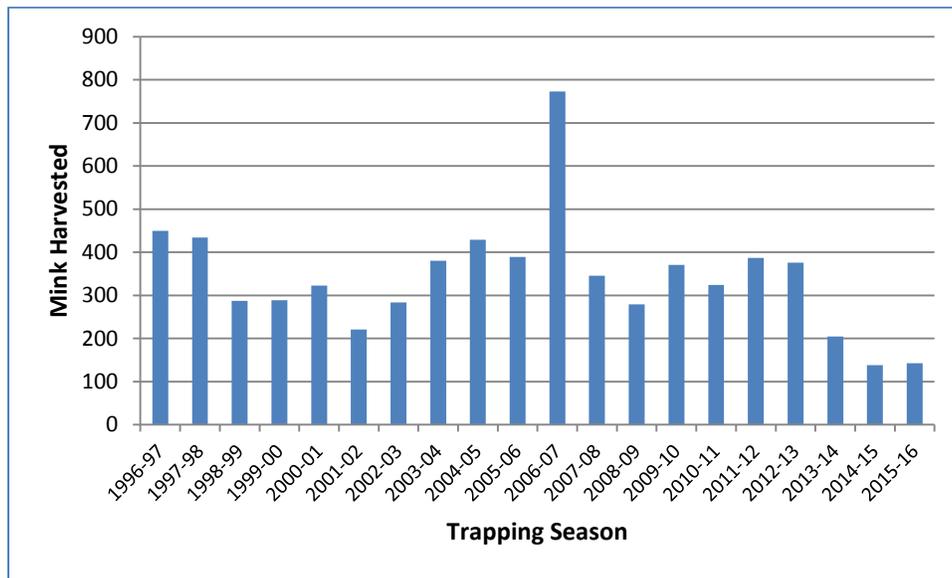


Figure 13. Percentage of the average number of mink harvested by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

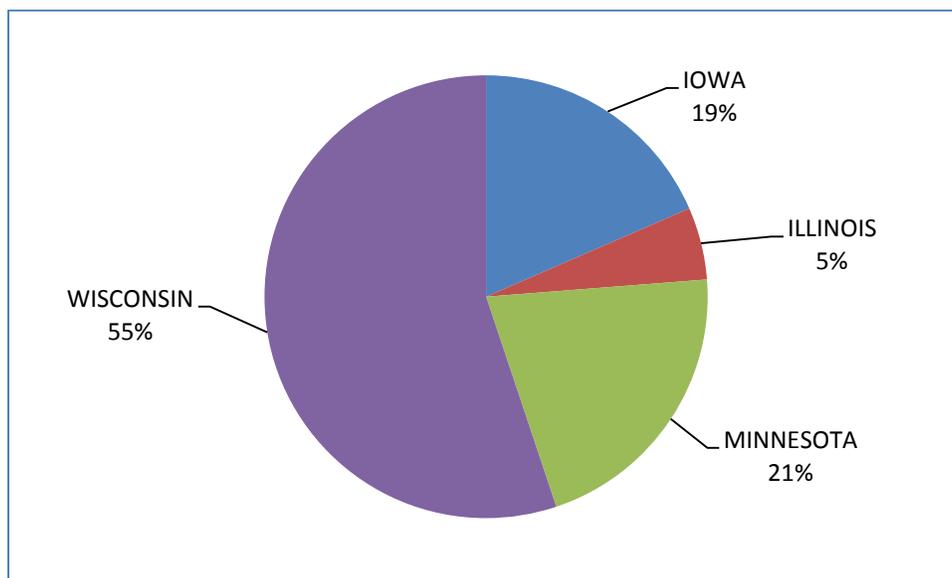
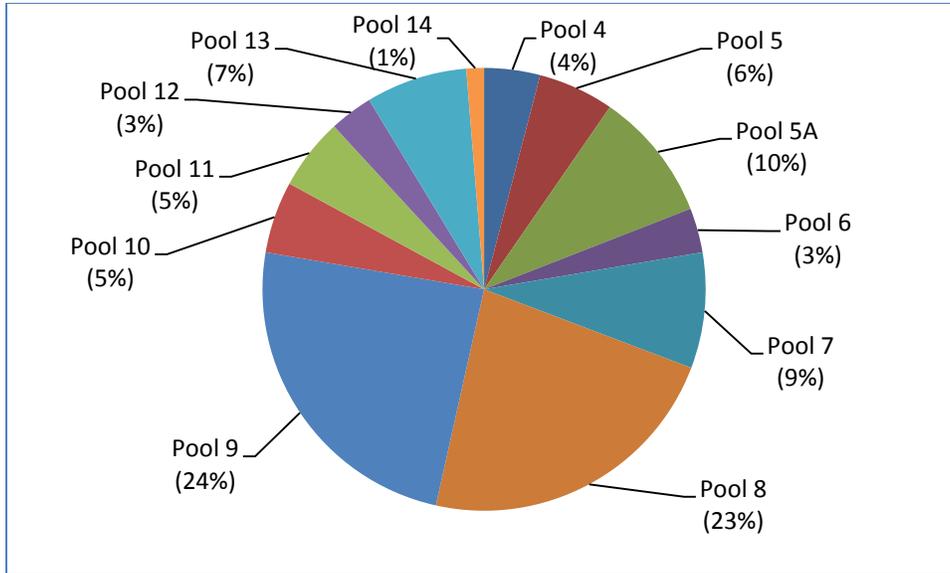


Figure 14. Percentage of the average number of mink harvested by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.



4.3: Raccoon Harvest

The average length of the refuge raccoon trapping season by state/zone ranged from 74 to 137 days during the 20-year period of record (Figure 15). Refuge raccoon trapping season dates by state/zone are

located in Appendix C, table 3. The average raccoon pelt prices/trapping season ranged from \$5.80 to \$15.23 during the 20-year period of record (Figure 16). The average raccoon pelt prices for each state are located in Appendix E, table 14.

Figure 15. Average season length (days) of raccoon trapping seasons on the refuge by state and zone. MZ = Mississippi River Zone, SZ = Southern Zone.

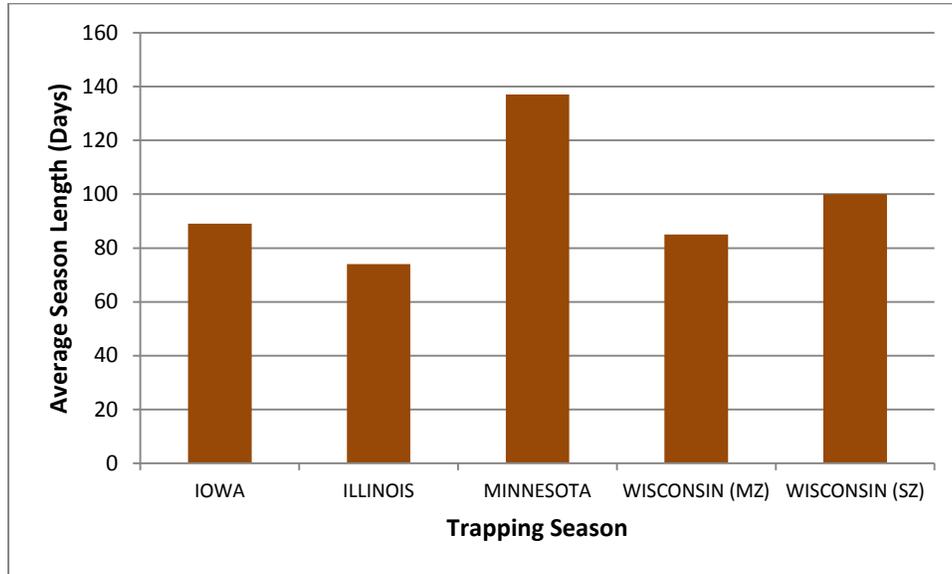
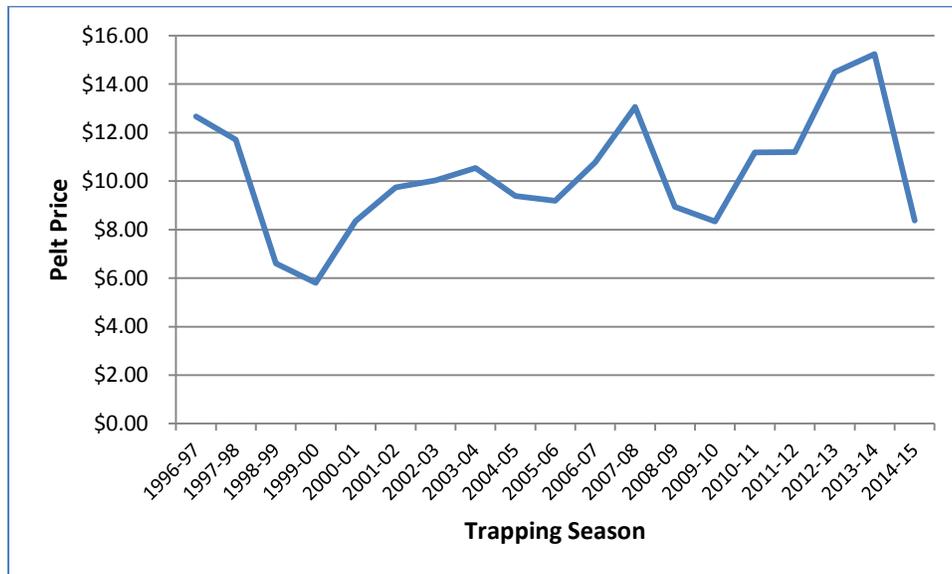


Figure 16. Average raccoon pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.



The raccoon harvest on the refuge ranged from 402 to 2,243 per trapping season with an average raccoon harvest of 1,372 per trapping season during the 20-year period of record (Figure 17). The average raccoon harvest has been greatest in Iowa (44%), followed by Wisconsin (23%), Illinois (23%), and Minnesota (10%) during the 20-year period of record (Figure 18 and Appendix H, table 27). The average raccoon harvest has

been greatest in the Savanna District (650), followed by the McGregor District (411), La Crosse District (178) and Winona District (133) during the 20-year period of record. The average raccoon harvest was greatest in Pools 13 (349), 14 (158), and 9 (148) (Figure 19). District specific raccoon harvest numbers by pool and by state are located in the Appendix H, tables 28-31.

Figure 17. Raccoon harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

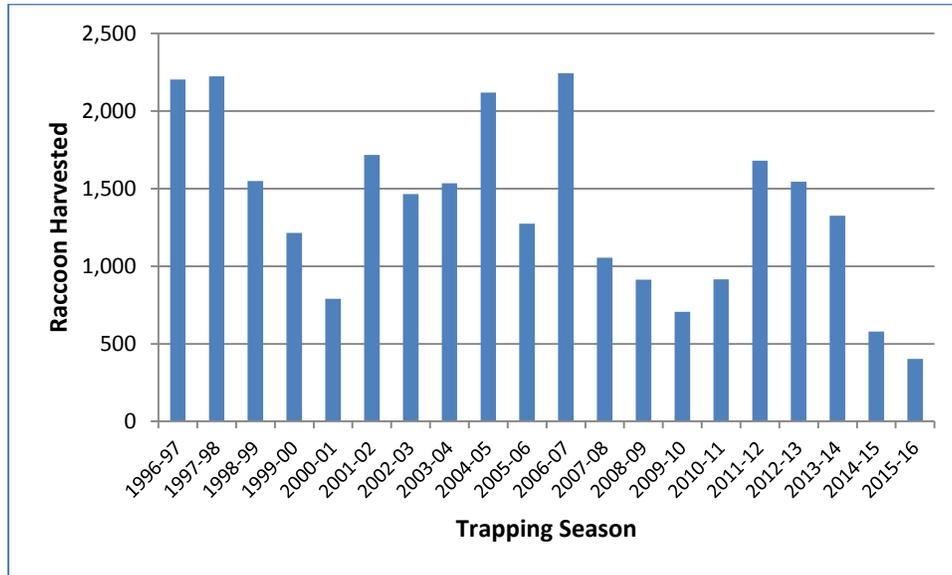


Figure 18. Percentage of the average number of raccoon harvested by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

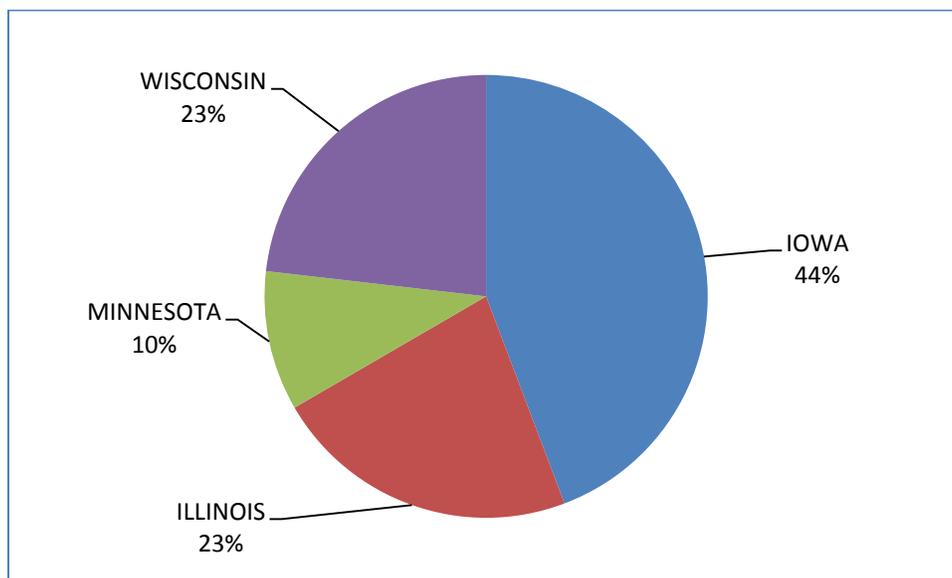
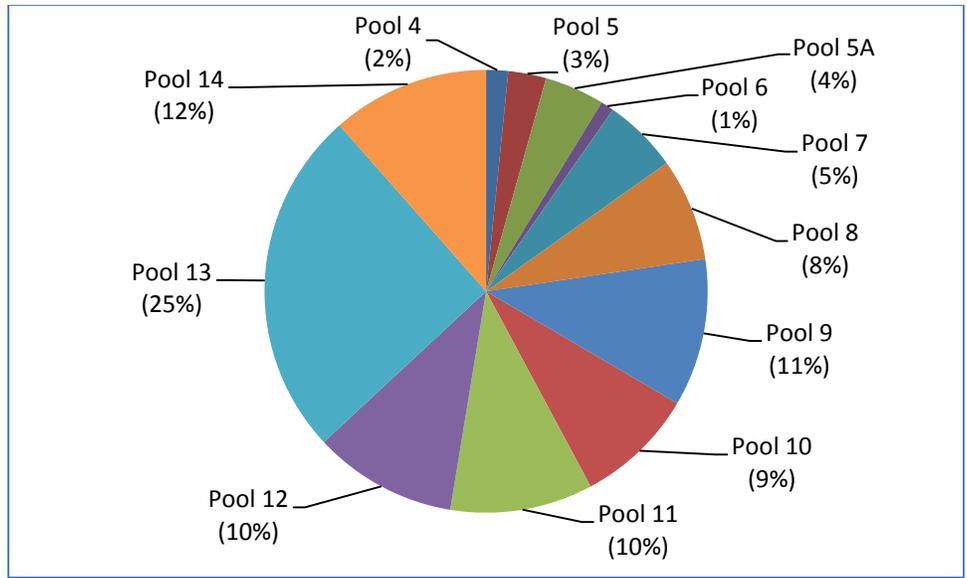


Figure 19. Percentage of the average number of raccoon harvested by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.



4.4: Beaver Harvest

The average length of the refuge beaver trapping season by state/zone ranged from 102 to 137 days during the 20-year period of record (Figure 20). Refuge beaver trapping season dates by state/zone are located

in Appendix C, table 4. The average beaver pelt prices/trapping season ranged from \$10.15 to \$17.68 during the 20-year period of record (Figure 21). The average beaver pelt prices for each state are located in Appendix E, table 15.

Figure 20. Average season length (days) of beaver trapping seasons on the refuge by state and zone. MZ = Mississippi River Zone, SZ = Southern Zone.

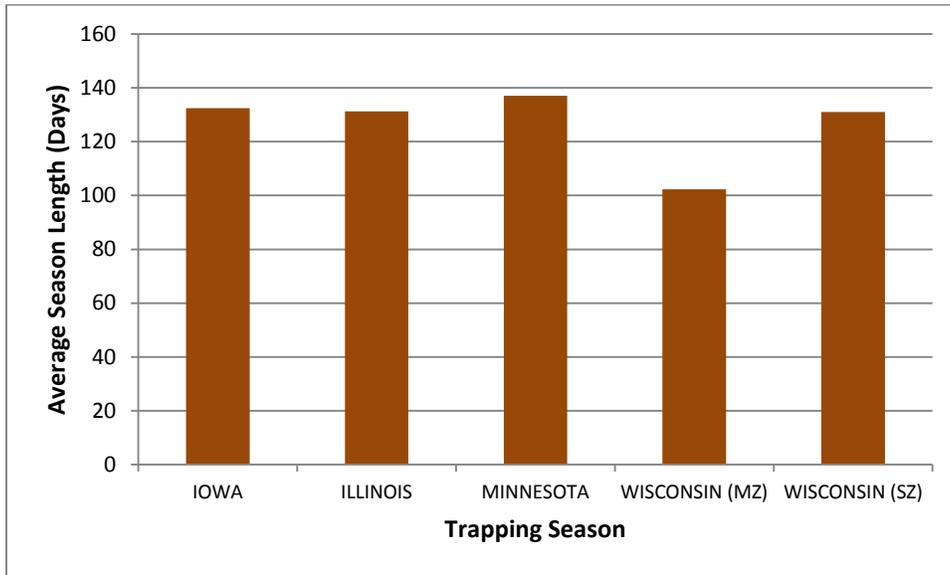
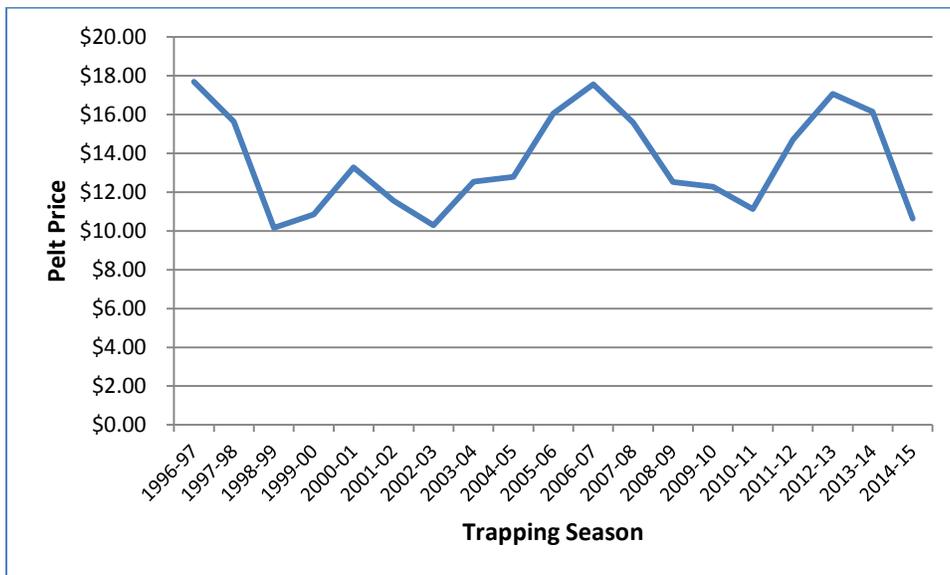


Figure 21. Average beaver pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.



The beaver harvest on the refuge ranged from 808 to 3,577 per trapping season with an average beaver harvest of 1,806 per trapping season during the 20-year period of record (Figure 22). The average beaver harvest has been greatest in Wisconsin (49%), followed by Iowa (22%), Minnesota (20%), and Illinois (9%) during the 20-year period of record (Figure 23 and Appendix I, table 32). The average beaver harvest has been

greatest in the McGregor District (688), followed by the Winona District (442), La Crosse District (370) and Savanna District (306) during the 20-year period of record. The average beaver harvest was greatest in Pools 9 (351), 8 (207), and 10 (195) (Figure 24). District specific beaver harvest numbers by pool and by state are located in the Appendix I, tables 33-36.

Figure 22. Beaver harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

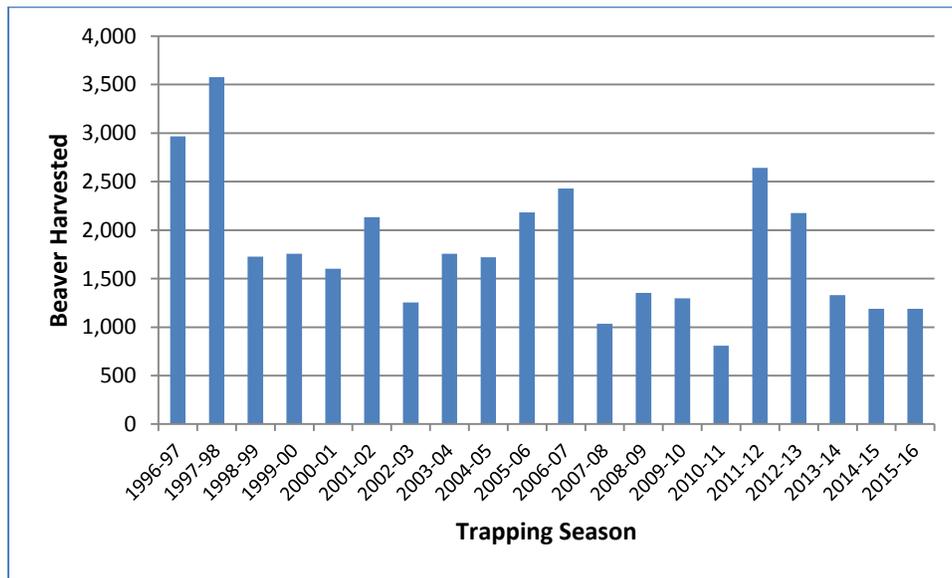


Figure 23. Percentage of the average number of beaver harvested by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

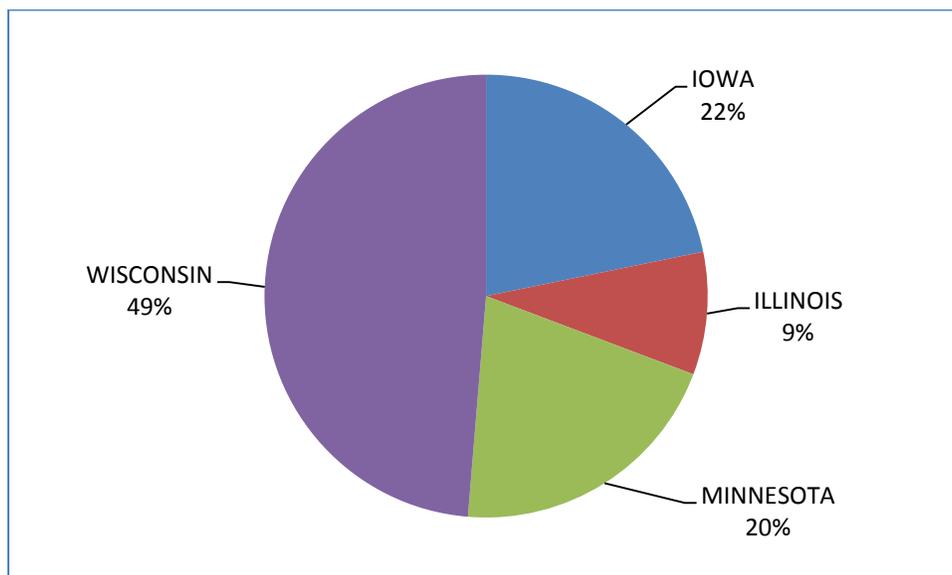
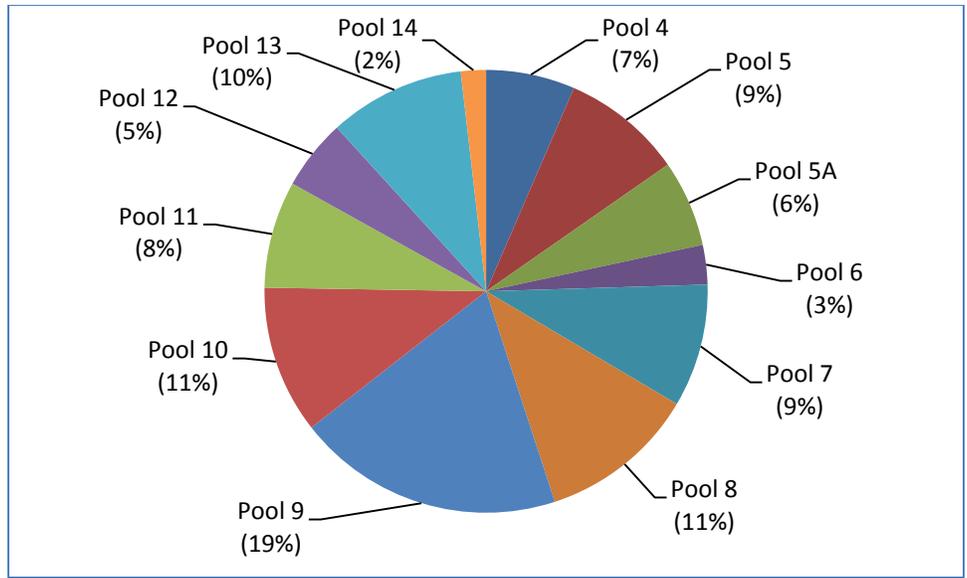


Figure 24. Percentage of the average number of beaver harvested by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.



4.5: River Otter Harvest

River otter trapping is allowed on the refuge following state trapping seasons (Appendix C, table 5) and regulations, however the refuge implemented a conservative harvest limit of one river otter per trapper per season, in accordance with the state licensing requirements. The decision to implement a conservative harvest limit for river otter on the refuge was made in 2006 during the refuge's furbearer management planning process. At that time the only state that had a trapping season for river otter was Wisconsin. Refuge-specific river otter population data was limited, and managers and biologists decided that a conservative harvest limit was appropriate until more information is collected. As stated in the special conditions of the trapping special use permit, refuge trappers are required to immediately release any otter found alive in a trap that is not legally being harvested. In addition if any otter are caught out of season or over the refuge harvest limit (1), the trapper must notify a Conservation Officer prior to the removal of the otter or tampering with the set.

The number of river otter caught (legally harvested, turned over to a Conservation Officer, or released alive) on the refuge has ranged from 11 to 51 per trapping season with an average of 30 river otter caught (legally harvested, turned over to a Conservation Officer, or released alive) per trapping season during the 20-year period of record (Figure 25). The average number of river otter caught (legally harvested, turned into a Conservation Officer, or released alive) per trapping season on the refuge has been greatest in Wisconsin (58%), followed by Iowa (22%), Minnesota (12%), and Illinois (8%) during the 20-year period of record (Figure 26 and Appendix J, table 37). The average number of river otter caught (legally harvested, turned into a Conservation Officer, or released alive) per trapping season on the refuge was greatest in Pool 9 (6) during the 20-year period of record (Figure 27). The number of river otter caught (legally harvested, turned over to a Conservation Officer or released alive) on the refuge by pool for each trapping season is located in Appendix J, table 38.

Figure 25. River otter caught (legally harvested, turned over to a Conservation Officer, or released alive) on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

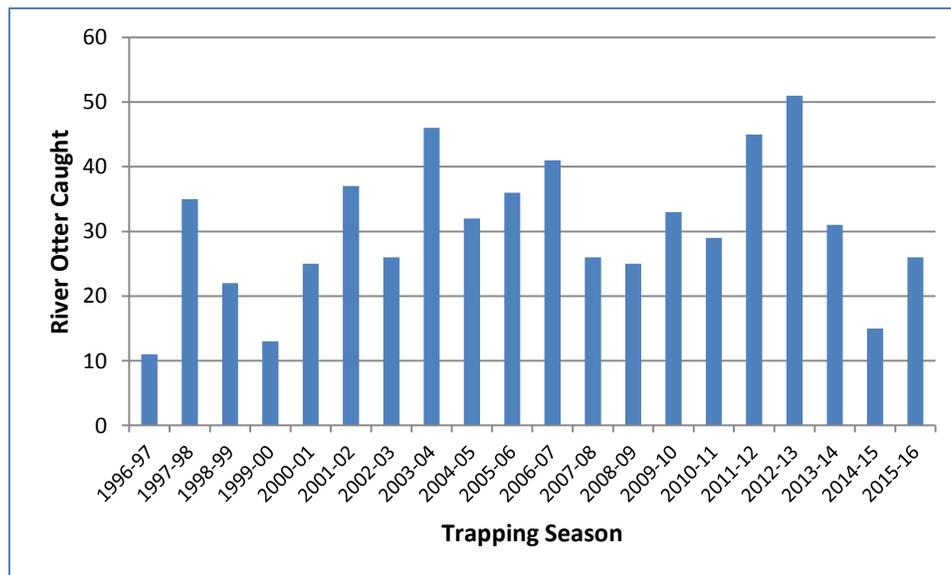


Figure 26. Percentage of the average number of river otter caught (legally harvested, turned over to a Conservation Officer, or released alive) by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

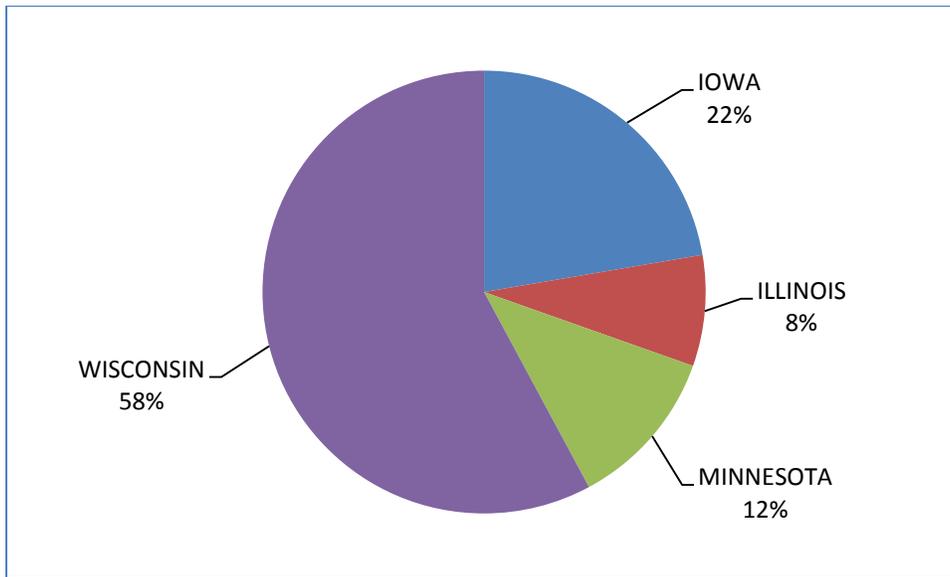
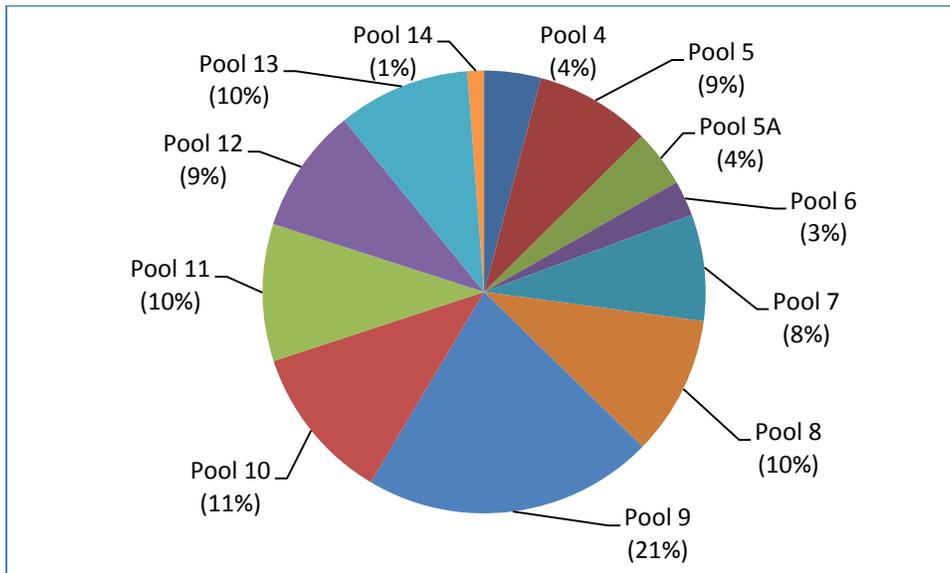


Figure 27. Percentage of the average number of river otter caught (legally harvested, turned over to a Conservation Officer, or released alive) by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.



4.6: Other Furbearer Harvest

The other furbearers that are legally harvested by refuge trappers include opossum, coyote, skunk, red fox, gray fox, and badger. The refuge harvest of opossum has ranged from 25 to 609 per trapping season with an average opossum harvest of 250 per trapping season during the 20-year period of record (Figure 28). The refuge harvest of coyote has ranged from 0 to 20 per trapping season with an average

coyote harvest of 5 per trapping season during the 20-year period of record (Figure 29). The refuge harvest of skunk has ranged from 1 to 23 per trapping season with an average skunk harvest of 9 per trapping season during the 20-year period of record (Figure 30). The refuge harvest of red fox has ranged from 0 to 22 per trapping season with an average red fox harvest of 7 per trapping season during the 20-year period of record (Figure 31). The other furbearer harvest numbers from the refuge are located in Appendix K, table 39.

Figure 28. Opossum harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

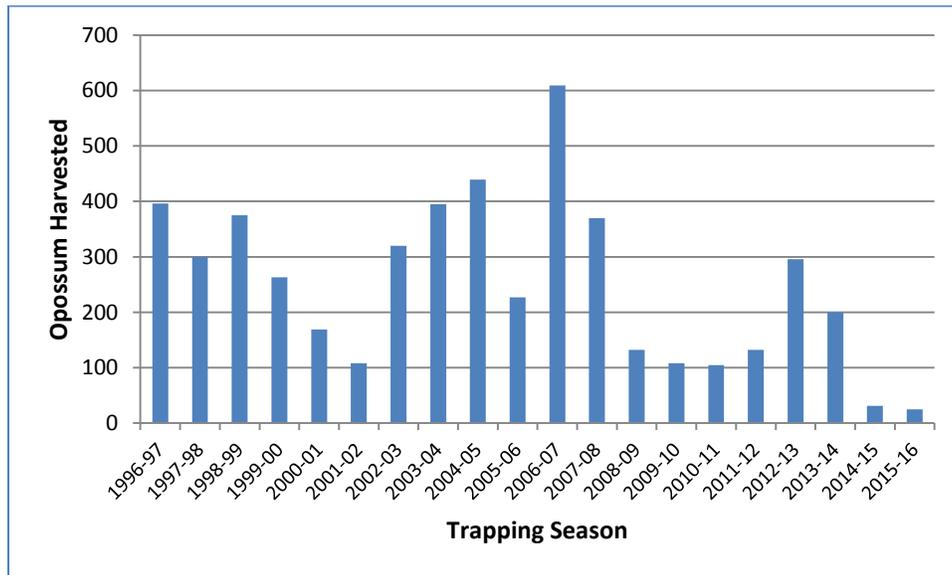


Figure 29. Coyote harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

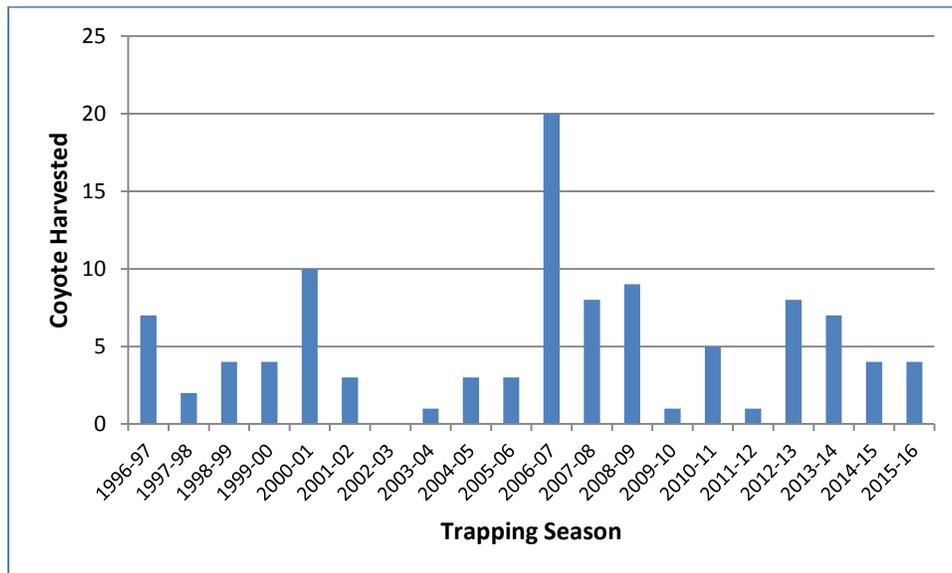


Figure 30. Skunk harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

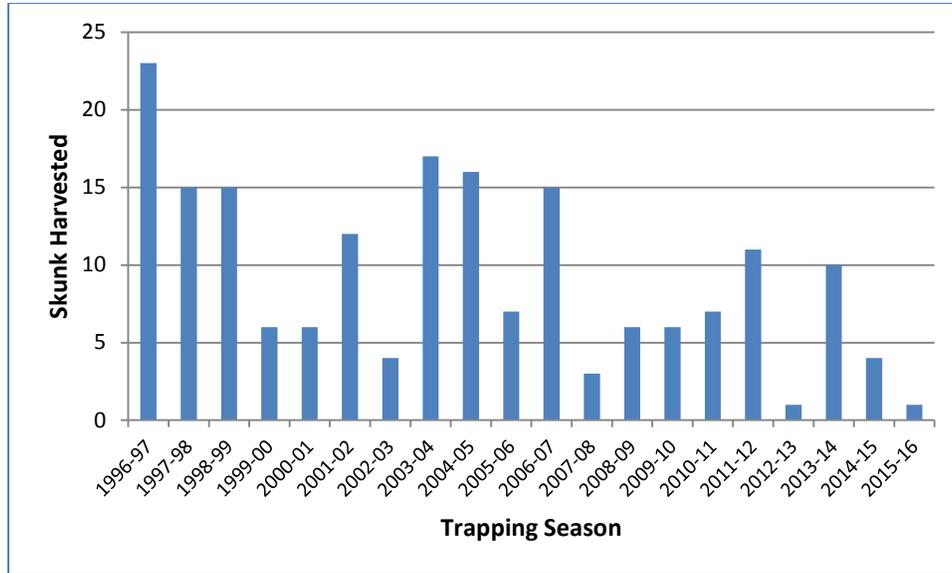
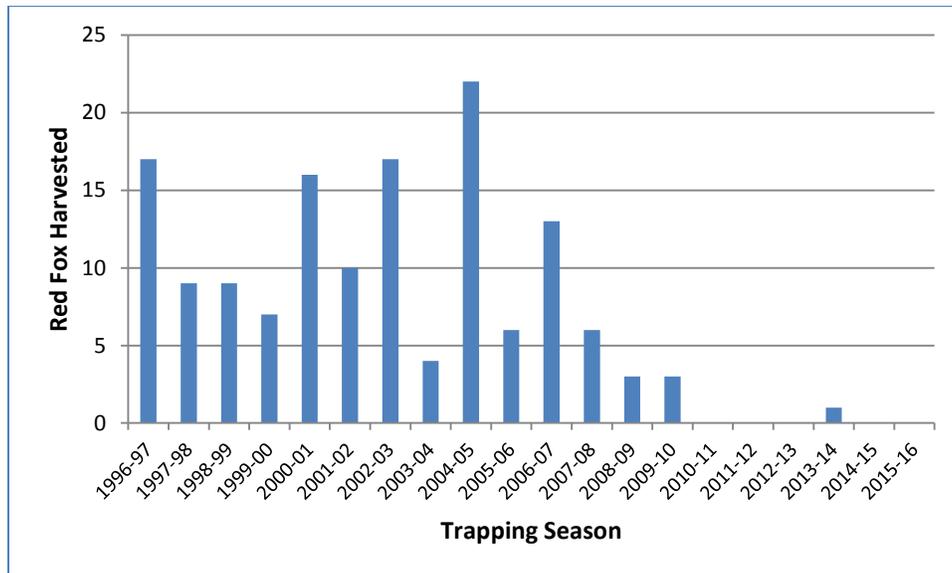


Figure 31. Red fox harvest on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.



4.7: Other Animals

The refuge trapping regulations are generally more restrictive than some of the state trapping regulations and many were established to minimize the potential for any incidental non-target catches and conflicts with other Refuge users. However, refuge trappers do report (self-report) other animals that they have caught in traps while trapping on the refuge. Refuge trappers are required by the trapping special use permit special conditions to immediately release any unauthorized animals that are found alive in their traps. Other

animals found dead or mortally injured in traps are required to be immediately disposed of in accordance with state law as stated in the refuge trapping special use permit special conditions. Refuge trappers are also required to notify Federal Wildlife Officers and/or state Conservation Officers immediately if any threatened or endangered species are caught in traps as well as any furbearer caught out of season. The other animals caught in traps on the refuge during the 20-year period of record include squirrel, cat, dog, turtle, fish, duck, goose, coot, grebe, great blue heron, sandhill crane, norway rat, rabbit, and mouse (Appendix L, table 40).

Appendix A: Refuge Commercial Special Use Permit/Special Conditions



Commercial Activities Special Use Permit Application

OMB Control Number 1018-0102
Expiration Date: 06/30/2017

1

Refuge Name:

Address:

Attn: (Refuge Official)

E-Mail:

Phone #:

For Official Use Only:

Approved Permit #:

Station #:

Permit Term: from to

Note: We do not require all information for each use. See instructions at the end of the notice and contact the refuge to determine applicability of a particular item.

1) Identify the type of Permit you are applying for: New Renewal Modification Other

Applicant Information

2) Full Name: 3) Title:

4) Business Name:

5) Street Address:

6) City/State/Zip:

7) Business Phone #: 8) Business Fax #:

9) E-mail: 10) Business Tax ID #:

11a) Within the past 5 years, has the company (entity), its owners, or any employees who have or will be expected to operate on the refuge, been convicted, pled nolo contendere, forfeited collateral, or are currently under charges for any violations of any State, Federal, or local law, or regulations related to fish and wildlife or permit activities? Yes No

11b) If you answered "YES" to question #11a, provide the individual's name, date of charge, charge(s), location of incident, court, and action taken for each violation.

12) List known assistants/subcontractors/subpermittees: (Only required if the assistants/subcontractors/subpermittees will be operating on the refuge without the permittee being present.)

Name	Address	Phone #
NOT APPLICABLE		

Activity Information

- 13) Activity type: Guiding Hunters Guiding Anglers Guiding other Outdoor Users Cabins
Filming Photography Agriculture Other

Note: Depending on the activity for which you are requesting a permit, we may ask you for the following activity information. Please contact the refuge where the activity is being conducted to determine what information is required.

- 14) Describe activity by specifically identifying timing, frequency, and how the activity is expected to proceed:

Permission is given to permittee to enter and/or be upon lands of the Upper Mississippi River National Wildlife and Fish (Refuge) to trap furbearing animals within the Refuge, during the Refuge trapping season. (See attached Special Conditions).

- 15) Specifically identify location(s): (GPS location(s) preferred)

Upper Mississippi River National Wildlife and Fish Refuge, with the exception of No Hunting/Trapping Zones. Also no trapping in areas posted "Area Closed" or "No Hunting Zone" until the day following the close of the State duck hunting season.

- 16a) Is map of location(s) required?

Yes No N/A

- 16b) Is map of location(s) attached?

Yes No

- 17) Estimated number of clients if applicable: Per Day Per Season

- 18) Activity/site occupancy timeline: (Specifically identify beginning and ending dates, site occupation timeline, hours, clean-up, and other major events.)

Refuge trapping seasons shall be in accordance with State regulations, except the final day of trapping on the Refuge is no later than March 15. The first day of any trapping season on the Refuge begins at 9:00 a.m. (See attached General Information Sheet).

- 19a) Is Plan of Operation required?

Yes No N/A

- 19b) Is Plan of Operation attached?

Yes No

- 20a) Is trip schedule required?

Yes No N/A

- 20b) Is trip schedule attached?

Yes No

License/Insurance Coverage/Certification/Permit

Note: Contact the refuge where the activity is going to be conducted to determine if we will require any type of license(s), insurance(s), certification(s), or permit(s). We may process this Special Use Permit while the applicant obtains them.

21) List any **licenses** you have for equipment operation (i.e., aviation or commercial boats), pesticide application(s), transporters, or others, if required:

License Type	Number	Expiration Date	Copy Attached? Yes/No
NOT APPLICABLE			

22) List any **insurance coverage(s)** you have such as general liability, aviation, grounding liability, contaminants applicator, medical evacuation, or others, if required:

Insurance Type	Carrier	Expiration Date	Copy Attached? Yes/No
NOT APPLICABLE			

23) List any **certifications** you have such as rat free, hull inspections, CPR/First Aid, or others, if required:

Certificate Type	Expiration Date	Copy Attached? Yes/No
NOT APPLICABLE		

24) List any other Federal, State, or Tribal **permits**, if required:

Permit Type	Permit Number	Expiration Date	Copy Attached? Yes/No
STATE TRAPPING PERMIT/LICENSE			

Logistics and Transportation

Note: We do not require all information for each use. See instructions at the end of the notice and contact the refuge to determine applicability of a particular item.

25a) Does the activity require personnel to stay overnight on the refuge? Yes No N/A

25b) If yes, list names of personnel involved:

List Names	List Names	List Names	List Names

26) Identify and describe all major equipment/gear and materials needed for activity, if required:

Furbearers may be taken on the Refuge using traps allowed under state law, except no snares and/or cable restraints or multiple-catch (colony type) traps are allowed. See attached Special Conditions for restrictions on use of other equipment including vehicle use on Refuge Lands.

27a) Provide detailed information on the logistics for onsite, intersite, and/or ship-to-shore transportation to or on the refuge, if required:

NOT APPLICABLE

27b) Provide descriptions, license plate and/or identification numbers of vehicles used for onsite transportation, if required:

Vehicle Type	Plate/I.D./Registration #	Vehicle Type	Plate/I.D./Registration #
NOT APPLICABLE			

27c) Provide descriptions, license plate and/or identification numbers of vehicles used for intersite transportation, if required:

Vehicle Type	Plate/I.D./Registration #	Vehicle Type	Plate/I.D./Registration #
NOT APPLICABLE			

27d) Provide descriptions, license plate and/or identification numbers of vehicles used for ship to shore transportation, if required:

Vehicle Type	Plate/I.D./Registration #	Vehicle Type	Plate/I.D./Registration #
NOT APPLICABLE			

28a) Is fuel cache needed? Yes No N/A

28b) Specific location(s) of fuel caches: (GPS Coordinates preferred)

29a) Is Safety Plan required?
Yes No N/A

29b) Is Safety Plan attached?
Yes No

Work and Living Accommodations

30) Specifically describe onsite work and/or living accommodations, including spike camps:

NOT APPLICABLE

31) Specifically describe on or offsite hazardous material storage or other on or offsite material storage space: (Including on and offsite fuel caches.)

NOT APPLICABLE

Sign, date, and print this form and return it to the refuge for processing.

32) Signature of Applicant: _____ Date of Application: _____

Notice

In accordance with the Privacy Act (5 U.S.C. 552a) and the Paperwork Reduction Act (44 U.S.C. 3501), please note the following information:

The issuance of a permit and collection of fees on lands of the National Wildlife Refuge System are authorized by the National Wildlife Refuge System Administration Act (16 U.S.C. 668dd-ee) as amended, and the Refuge Recreation Act (16 U.S.C. 460k-460k-4).

The information that you provide is voluntary; however, we require submission of requested information to evaluate the qualifications, determine eligibility, and document permit applicants under the above Acts. It is our policy not to use your name for any other purpose. We maintain the information in accordance with the Privacy Act. We will consider all information you provide in reviewing this application. False, fictitious, or fraudulent statements or representations made in the application may be grounds for revocation of the Special Use Permit and may be punishable by fine or imprisonment (18 U.S.C. 1001). Failure to provide all required information is sufficient cause for the U.S. Fish and Wildlife Service to deny a permit.

No Members of Congress or Resident Commissioner shall participate in any part of this contract or to any benefit that may arise from it, but this provision shall not pertain to this contract if made with a corporation for its general benefit.

The Permittee agrees to be bound by the equal opportunity "nondiscrimination in employment" clause of Executive Order 11246.

We also may make routine use disclosures: (a) to the U.S. Department of Justice when related to litigation or anticipated litigation; (b) of information indicating a violation or potential violation of a statute, rule, order, or license to appropriate Federal, State, local, or foreign agencies responsible for investigating or prosecuting the violation or for enforcing or implementing the statute, rule, regulations, order, or license; (c) from the record of the individual in response to an inquiry from a Congressional office made at the request of the individual (42 FR 19083; April 11, 1977); and (d) to provide addresses obtained from the Internal Revenue Service to debt collection agencies for purposes of locating a debtor to collect or compromise a Federal Claim against the debtor, or to consumer reporting agencies to prepare a commercial credit report for use by the Department of Justice (48 FR 54716; December 6, 1983).

An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. OMB has approved this information collection and assigned control number 1018-0102. The public reporting burden for this information collection varies based on the requested specific refuge use. We estimate the relevant public reporting burden for the Commercial Activity Special Use Permit Application form to average 4 hours per response, including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Mail comments on this form to the Information Collection Clearance Officer, U.S. Fish and Wildlife Service, 4401 N. Fairfax Drive, MS 2042-PDM, Arlington, Virginia, 22203.

General Conditions and Requirements

- 1) Responsibility of Permittee: The permittee, by operating on the premises, shall be considered to have accepted these premises with all facilities, fixtures, or improvements in their existing condition as of the date of this permit. At the end of the period specified or upon earlier termination, the permittee shall give up the premises in as good order and condition as when received except for reasonable wear, tear, or damage occurring without fault or negligence. The permittee will fully repay the Service for any and all damage directly or indirectly resulting from negligence or failure on his/her part, and/or the part of anyone of his/her associates, to use reasonable care.
- 2) Operating Rules and Laws: The permittee shall keep the premises in a neat and orderly condition at all times, and shall comply with all municipal, county, and State laws applicable to the operations under the permit as well as all Federal laws, rules, and regulations governing national wildlife refuges and the area described in this permit. The permittee shall comply with all instructions applicable to this permit issued by the refuge official in charge. The permittee shall take all reasonable precautions to prevent the escape of fires and to suppress fires and shall render all reasonable assistance in the suppression of refuge fires.
- 3) Use Limitations: The permittee's use of the described premises is limited to the purposes herein specified and does not, unless provided for in this permit, allow him/her to restrict other authorized entry onto his/her area; and allows the U.S. Fish and Wildlife Service to carry on whatever activities are necessary for: (1) protection and maintenance of the premises and adjacent lands administered by the U.S. Fish and Wildlife Service; and (2) the management of wildlife and fish using the premises and other U.S. Fish and Wildlife Service lands.
- 4) Transfer of Privileges: This permit is not transferable, and no privileges herein mentioned may be sublet or made available to any person or interest not mentioned in this permit. No interest hereunder may accrue through lien or be transferred to a third party without the approval of the Regional Director of the U.S. Fish and Wildlife Service and the permit shall not be used for speculative purposes.
- 5) Compliance: The U.S. Fish and Wildlife Service's failure to require strict compliance with any of this permit's terms, conditions, and requirements shall not constitute a waiver or be considered as a giving up of the U.S. Fish and Wildlife Service's right to thereafter enforce any of the permit's terms or conditions.
- 6) Conditions of Permit not Fulfilled: If the permittee fails to fulfill any of the conditions and requirements set forth herein, the U.S. Fish and Wildlife Service shall retain all money paid under this permit to be used to satisfy as much of the permittee's obligation as possible.
- 7) Payments: All payment shall be made on or before the due date to the local representative of the U.S. Fish and Wildlife Service by a postal money order or check made payable to the U.S. Fish and Wildlife Service.
- 8) Termination Policy: At the termination of this permit the permittee shall immediately give up possession to the U.S. Fish and Wildlife Service representative, reserving, however, the rights specified in paragraph 11 below. If he/she fails to do so, he/she will pay the U.S. Fish and Wildlife Service, as liquidated damages, an amount double the rate specified in this permit for the entire time possession is withheld. Upon yielding possession, the permittee will still be allowed to reenter as needed to remove his/her property as stated in paragraph 11 below. The acceptance of any

fee for the liquidated damages or any other act of administration relating to the continued tenancy is not to be considered as an affirmation of the permittee's action nor shall it operate as a waiver of the U.S. Fish and Wildlife Service's right to terminate or cancel the permit for the breach of any specified condition or requirement.

9) Revocation Policy: The Regional Director of the U.S. Fish and Wildlife Service may revoke this permit without notice for noncompliance with the terms hereof, or for violation of general and/or specific laws or regulations governing national wildlife refuges, or for nonuse. It is at all times subject to discretionary revocation by the Director of the Service. Upon such revocation the U.S. Fish and Wildlife Service, by and through any authorized representative, may take possession of said premises for its own and sole use, and/or may enter and possess the premises as the agent of the permittee and for his/her account.

10) Damages: The U.S. Fish and Wildlife Service shall not be responsible for: any loss or damage to property including but not limited to crops, animals, and machinery; injury to the permittee or his/her relatives or to the officers, agents, employees, or any other(s) who are on the premises from instructions; the sufferance from wildlife or employees or representatives of the U.S. Fish and Wildlife Service carrying out their official responsibilities. The permittee agrees to hold the U.S. Fish and Wildlife Service harmless from any and all claims for damages or losses that may arise to be incident to the flooding of the premises resulting from any associated government river and harbor, flood control, reclamation, or Tennessee Valley Authority activity.

11) Removal of Permittee's Property: Upon the expiration or termination of this permit, if all rental charges and/or damage claims due to the U.S. Fish and Wildlife Service have been paid, the permittee may, within a reasonable period as stated in the permit or as determined by the U.S. Fish and Wildlife Service official in charge, but not to exceed 60 days, remove all structures, machinery, and/or equipment, etc., from the premises for which he/she is responsible. Within this period the permittee also must remove any other of his/her property including his/her acknowledged share of products or crops grown, cut, harvested, stored, or stacked on the premises. Upon failure to remove any of the above items within the aforesaid period, they shall become the property of the U.S. Fish and Wildlife Service.

Instructions for Completing Application

You may complete the application portion verbally, in person, or electronically and submit to the refuge for review. Note: Please read instructions carefully as not all information is required for each activity. Contact the specific refuge headquarters office where the activity is going to be conducted to determine applicability of a particular item. We may add special conditions or permit stipulations to permit prior to approval.

1) Identify if permit application is for new, renewal, or modification of an existing permit. Permit renewals may not need all information requested. Contact the specific refuge headquarters office where the activity is going to be conducted to determine applicability of this requirement.

2-9) Provide applicant or business full name, organization or business name (if applicable), address, phone, fax, and e-mail.

10) Provide tax identification number of business or individual.

11a-11b) Check box answering the question regarding any violations of State, Federal, or local law, or regulations related to fish and wildlife or permit activities, if required. If **you answered yes to question 11a**, supply the detailed information requested in question 11b. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if we require information on violations of State, Federal, or local law, or regulations related to fish and wildlife or permit activities.

12) Provide the names and addresses of assistants, subcontractors, or subpermittees. We may require names and address if the assistants, subcontractors, or subpermittees will be operating on the refuge without the permittee being present. Volunteers, assistants, subcontractors, or subpermittees that are accompanied by the permittee need not be identified.

13) Activity type: identify activity type (such as, guiding hunters, anglers, or other outdoor users, commercial filming, providing other visitor services, agriculture activities such as haying, grazing, crop planting, logging, beekeeping, and other agricultural products, building or occupying cabins, or other commercial uses). Describe other commercial uses if not one of the listed categories. Applicants in Alaska should contact the specific refuge headquarters office where the activity is going to be conducted if you have questions regarding commercial or subsistence activities.

14) Describe Activity: provide detailed information on the activity, including timing, frequency, how the activity is expected to proceed, etc. Permit renewals may not need activity descriptions if the activity is unchanged from previous permit. Most repetitive activities do not require an activity description for each visit. Contact the specific refuge headquarters office where the activity is going to be conducted to determine applicability of this requirement.

15) Location: identify specific location (GPS coordinates preferred) if not a named facility. Most repetitive activities may not require identification of a location. In addition, permit renewals may not require a location if the activity is essentially unchanged from the previous permit. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if a location is required.

16a-16b) Attach a map of location, if required, and if the activity is not conducted at a named facility. Most repetitive activities may not require a map. In addition, permit renewals may not require a map if the activity is essentially unchanged from the previous permit. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if a map is required.

17) Estimate number of clients per day or per season.

18) Activity/site occupancy timeline: identify beginning and ending dates, site occupation timeline, hours, clean-up and other major events. Permit renewals may not need an activity/site occupancy timeline if the activity is unchanged from previous permit. Most repetitive activities do not require an

activity/site occupancy timeline for each visit. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if an activity/site occupancy timeline is required.

19a-19b) Attach a Plan of Operation, if required. Most repetitive activities do not require a Plan of Operations for each visit. In addition, permit renewals may not require a Plan of Operations if the activity is essentially unchanged from the previous permit. Contact the specific refuge headquarters office listed where the activity is going to be conducted to determine if a Plan of Operations is required.

20a-20b) Attach trip schedule, if required. Most repetitive activities will require trip schedules for each visit. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if trip schedules are required.

21) Specifically identify types and numbers of licenses, as required. Contact the specific refuge headquarters office where the activity is going to be conducted to determine the types of licenses required, and to coordinate the simultaneous application for multiple types of licenses. We may process this Special Use Permit while licenses are being sought, but we may or may not issue the Special Use Permit until appropriate licenses are obtained.

22) Specifically identify name, type, and carrier of insurance, if required. Contact the specific refuge headquarters office where the activity is going to be conducted to determine the types of insurance required, and to coordinate obtaining several types of insurance simultaneously with this permit. We may or may not issue this Special Use Permit while other types of insurance are being obtained.

23) Specifically identify types and numbers of other certifications, if required. Contact the specific refuge headquarters office where the activity is going to be conducted to determine the types of certifications required, and to coordinate the simultaneous application of multiple certifications. We may or may not issue this Special Use Permit while other certifications are being obtained.

24) Specifically identify types and numbers of other State, Federal or tribal permits, if required. Contact the specific refuge headquarters office where the activity is going to be conducted to determine the types of permits required, and to coordinate the simultaneous application of multiple State, Federal or tribal permits. We may process this Special Use Permit while other State, Federal or tribal permits are being sought, but we may or may not issue the Special Use Permit until other appropriate State, Federal or tribal permits are obtained.

25a-25b) Provide name(s) of any personnel required to stay overnight, if applicable.

26) Identify all equipment and materials that will be used, if required. Most repetitive activities do not require a list of equipment. In addition, permit renewals may not require a list of equipment if the event is essentially unchanged from the previous permit. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if a list of equipment is required.

27a-27d) Describe and provide vehicle descriptions and license plate or identification numbers of all vehicles, including boats and airplanes, if required. Motor vehicle descriptions are only required for permittee vehicle, and/or if the vehicle will be operated on the refuge without the permittee being present. Motor vehicles that are accompanied by the permittee as part of a group (convoy) activity need not be identified if cleared in advance by refuge supervisor. Specifically describe ship-to-shore, intersite (between islands, camps, or other sites) and onsite transportation mechanisms, and license plate or identification numbers, if required.

28a-28b) Identify specific location(s) of fuel cache(s) (GPS coordinates preferred), if required.

29a-29b) Attach safety plan if required. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if we require a safety plan.

30) Specifically describe onsite work and/or living accommodations, if required. Include descriptions and locations (GPS coordinates preferred) of spike camps or other remote work and/or living accommodations that are not part of the base of operations. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if we require descriptions of on-site work and/or living accommodations.

31) Specifically describe onsite or offsite hazardous material storage, or other material storage space (including on and offsite fuel caches), if required. Contact the specific refuge headquarters office where the activity is going to be conducted to determine if we require descriptions of hazardous material storage or other on-site material storage.

32) Print the application (if using the fillable version). Date and sign the application and return to refuge for processing. The refuge official will review and, if approved, fill out a Special Use Permit, sign, and return a copy to you for signature and acceptance.

**This application form is not valid as a permit
but may be used as a reference document attached to the official permit.
Only official refuge personnel may assign a valid permit number and permit term to this application form
after the permit has been approved.**

SPECIAL CONDITIONS OF TRAPPING PERMIT

Pursuant to Code of Federal Regulations, Title 50, Chapter 1, Subchapter C, Part 31, Subpart B, Section 31.16, the following conditions are prescribed by the Director of the U.S. Fish and Wildlife Service for the trapping of furbearers on the Upper Mississippi River National Wildlife and Fish Refuge (Refuge) situated in the States of Minnesota, Wisconsin, Iowa, and Illinois.

1. State Laws – Permittee must comply with all State and local game laws and regulations, in addition to all federal regulations and Refuge permit conditions. In cases where any of these regulations differ, the most restrictive regulations shall apply.

2. Trapping Permits – Any person exercising the privilege of trapping furbearing animals on the Refuge shall possess a valid trapping license issued by the State where trapping is performed and a valid special use permit for trapping issued by the Refuge. Permittee shall carry both the State trapping license and Refuge special use permit on their person at all times while trapping, and upon request, shall exhibit them to any federal, state, or local law enforcement officer.

3. Trap Tags and Fees; Limitations – In addition to tags required by State regulations, each permittee authorized to trap furbearing animals on the Refuge shall obtain from the Refuge Manager, or an authorized representative, appropriate Refuge tags for all traps used. A tag for the current trap year shall be securely attached to each trap in a manner that will allow convenient examination. Traps displaying current tags assigned to multiple permittees may be tended by any of the permitted tag owners. The Service is required to collect a fee which will be used to recover the cost of administering the issuance of permits.

4. Approved Traps; Trap Inspection and Removal; Plant Life – Furbearers may be taken on the Refuge using traps allowed under state law, except no snares or multiple-catch (colony type) traps are allowed. Permittee shall tend each trap/set on the Refuge at least once every calendar day, except for beaver sets which must be tended at least once every two calendar days. Traps shall only be tended between one-half hour before sunrise to one-half hour after sunset, or during hours set by state law if more restrictive. Permittee shall not cut any vegetation on the Refuge, except willow for use as trap stakes or drags.

5. Bag Limit – The bag limit for each furbearer shall be that limit prescribed by applicable State law or Refuge regulation, whichever is more restrictive. All animals taken on the Refuge shall be included as a part of any state bag limit. Otter trapping is allowed in States where open but with a maximum harvest of 1 otter/Refuge permit in accordance with State seasons and licensing.

6. Fur Catch Report – It is mandatory that all permittees submit a Fur Catch Report by **April 15**, following the Refuge trapping season. Failure to accurately complete and return the report by the deadline shall be sufficient cause for refusal of future permits.

7. Closed Areas/No Hunting Zones – All areas of the Refuge which are closed to hunting of migratory birds shall be closed to trapping during the duck hunting season for that State. Trapping in areas posted “**Area Closed**”, “**No Hunting Zone**” and “**No Entry/Sanctuary**” will be allowed beginning at 9:00 a.m. on the day following the close of the State duck hunting season, except as otherwise specified on this permit or prescribed by the Refuge Manager.

8. Prohibited Methods and Acts

It Is Unlawful To:

***Trap** before, 9:00 a.m. on, the opening day of the Refuge muskrat trapping season.

***Trap** in Youth Trapping Areas the first 14 days of the Refuge muskrat trapping season, unless permitted to do so.

***Trap** after March 15 until the start of the Refuge muskrat trapping season.

* **Mark** or stake traps sites or animal runs or paths, or chop holes in the ice for trap sets in advance of the applicable season.

* **Place** traps, stakes, or other equipment in more than one location before 9:00 a.m. on the opening day of any Refuge trapping season.

***Place**, without a tagged trap attached, any stake, pole, rod, or stick capable of holding or anchoring any kind of animal trap.

* **Set** or tend more traps than the number authorized on the permit.

***Set** or trap within 3 feet of the waterline of any muskrat house or feeding house.

* **Set** a trap closer to a beaver house or dam than permitted by state law, and in no case shall a trap be set closer than 6 feet of where the lodge or dam meets the water. The 6-foot setback restriction does not apply to bank dens that do not have an associated lodge structure/cache. Dog-proof traps and #110 sized body-grip traps are allowed on beaver dams and lodges unless prohibited by state law.

***Set** a trap within 30 feet of an otter den.

***Disturb** or molest any muskrat house, mink or otter den, or beaver house or dam.

*Dispose of carcasses or animal parts on the Refuge.

***Use** exposed flesh or carcass baits, including fish.

***Use** snowmobiles or wheeled or tracked all-terrain vehicles on, over, or across refuge lands at any time, including while trapping. These vehicles are allowed only on the ice over navigable waters, accessed from boat landings, but prohibited in Electric Motor Areas.

***Tend**, disturb, or molest another person’s traps, fur catch, or trapline.

(It is unlawful to set or tend any trap/set on the Refuge that does not have your current refuge trap tag attached. Any trap/set which is tended by multiple persons must display a current tag assigned to EACH permittee checking the trap. One exception is that someone may ASSIST with checking tagged traps, provided that the permittee is physically present at the trap site).

9. Possession of Firearms – Permittees are allowed to dispatch animals caught in traps with a firearm in accordance with State law, except in No Hunting/Trapping Zones.

10. Disposition of Unauthorized Animals – Birds and mammals other than those authorized to be trapped under permit and found alive in the traps of the permittee shall be immediately liberated. Such birds and mammals found dead or mortally injured in traps shall be immediately disposed of in accordance with State law. If any threatened or endangered species are caught, a Refuge employee or State warden must be notified immediately. **If furbearers are caught out of season or over the Refuge bag limit (1 otter), a Federal Wildlife Officer must be notified prior to the removal of the furbearer or tampering with the set.**

11. Penalties – Failure of a permittee to comply with any of the Refuge trapping permit conditions or violation of any of the regulations issued under the authority of the Upper Mississippi River National Wildlife and Fish Refuge Act of June 7, 1924 or any federal or State law or regulation related to trapping on the Upper Mississippi River NW&FR may be sufficient cause for one or more of the following actions:

- Revocation of existing permits.
- Refusal of future trapping special use permits.
- Refusal of other privileges requiring a permit.

All traps and equipment used as instruments of any violation, and all animals or furs illegally taken, shall be subject to immediate seizure, and subsequent forfeiture.

12. Refuge Contact Numbers

Winona District Office: (507) 454-7351
La Crosse District Office: (608) 779-2399
McGregor District Office: (608) 326-0515
Savanna District Office: (815) 273-2732

Appendix B: Fur Catch Report

FUR CATCH REPORT Upper Mississippi River National Wildlife and Fish Refuge

Permit No. _____

State _____

Fill in this report completely, and mail **by April 15** to: **Biologist, Upper Mississippi River National Wildlife and Fish Refuge, 51 East 4th Street, Room 101, Winona, Minnesota 55987.**

This report is MANDATORY even if you did not trap this season.

NO SIGNATURE OR OTHER IDENTIFICATION IS REQUIRED. This information is used only by wildlife managers to estimate furbearer populations and manage the trapping program to help protect the furbearer resources. It is important that you ACCURATELY and COMPLETELY report for each river Pool how many days you trapped and what you caught. **Failure to accurately complete and return this report by April 15 may be sufficient cause for refusal of future permits.**

Did you trap on **Refuge** lands and waters this season? _____ Yes _____ No
If you answered No, stop here and return the form. If you answered Yes, complete the rest of the form before mailing. Your comments on the Refuge Trapping Program are also welcome in the space provided below.

Please list your fur catch here: Use one column for each Pool that you trapped. If you only trapped in one Pool use the first column. Enter the number of days that you trapped and any fur taken in each Pool. **List only information from trapping on Refuge lands and waters.**

	Pool No. _____	Pool No. _____	Pool No. _____
State	_____	_____	_____
# Days Trapped	_____	_____	_____
Ave. # Traps Set/Day	_____	_____	_____
# of Muskrat	_____	_____	_____
# of Raccoon	_____	_____	_____
# of Beaver	_____	_____	_____
# of Mink	_____	_____	_____

List type, number, State and Pool Number of all other furbearers caught. **If otter were caught, please note if the otter were legally harvested, released alive or were turned in to a Conservation Officer.**

List type, number, State and Pool Number of all other animals (non-furbearers) caught:

Comments: _____

Appendix C: Refuge Trapping Season Dates

Table 1. Refuge muskrat trapping season dates by state and zone during the 20-year period of record.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN (MZ ¹)	WISCONSIN (SZ ²)
1996-97	Nov. 2 - Jan. 31	Nov. 5 - Jan. 10	Nov. 2 - Feb. 28	Nov. 22 - Jan. 15	Nov. 2 - Dec. 31
1997-98	Nov. 1 - Jan. 31	Nov. 5 - Jan. 10	Nov. 1 - Feb. 28	Dec. 3 - Jan. 15	Nov. 1 - Dec. 31
1998-99	Nov. 7 - Jan. 31	Nov. 5 - Jan. 10	Oct. 31 - Feb. 28	Dec. 2 - Feb. 28	Nov. 7 - Feb. 28
1999-00	Nov. 6 - Jan. 31	Nov. 5 - Jan. 10	Oct. 30 - Feb. 29	Nov. 8 - Feb. 28	Nov. 6 - Feb. 28
2000-01	Nov. 4 - Jan. 31	Nov. 5 - Jan. 15	Oct. 28 - Feb. 28	Nov. 13 - Feb. 28	Nov. 4 - Feb. 28
2001-02	Nov. 3 - Jan. 31	Nov. 5 - Jan. 15	Oct. 27 - Feb. 28	Nov. 12 - Feb. 28	Nov. 3 - Feb. 28
2002-03	Nov. 2 - Jan. 31	Nov. 5 - Jan. 15	Nov. 2 - Feb. 28	Nov. 11 - Feb. 28	Nov. 2 - Feb. 28
2003-04	Nov. 1 - Jan. 31	Nov. 5 - Jan. 15	Nov. 1 - Feb. 29	Nov. 10 - Feb. 29	Nov. 1 - Feb. 29
2004-05	Nov. 6 - Jan. 31	Nov. 5 - Jan. 15	Oct. 30 - Feb. 28	Nov. 8 - Feb. 28	Oct. 30 - Feb. 28
2005-06	Nov. 5 - Jan. 31	Nov. 5 - Jan. 20	Oct. 29 - Feb. 28	Nov. 14 - Feb. 28	Oct. 29 - Feb. 28
2006-07	Nov. 4 - Jan. 31	Nov. 5 - Jan. 20	Oct. 28 - Feb. 28	Nov. 13 - Feb. 28	Oct. 28 - Feb. 28
2007-08	Nov. 3 - Jan. 31	Nov. 5 - Jan. 20	Oct. 27 - Feb. 29	Nov. 12 - Feb. 29	Oct. 27 - Feb. 29
2008-09	Nov. 1 - Jan. 31	Nov. 5 - Jan. 20	Nov. 1 - Feb. 28	Nov. 10 - Feb. 28	Oct. 25 - Feb. 28
2009-10	Nov. 7 - Jan. 31	Nov. 5 - Jan. 20	Oct. 31 - Feb. 28	Nov. 9 - Feb. 28	Oct. 31 - Feb. 28
2010-11	Nov. 6 - Jan. 31	Nov. 5 - Jan. 20	Oct. 30 - Feb. 28	Nov. 8 - Feb. 28	Oct. 30 - Feb. 28
2011-12	Nov. 5 - Jan. 31	Nov. 5 - Jan. 20	Oct. 29 - Feb. 29	Nov. 14 - Feb. 29	Oct. 29 - Feb. 29
2012-13	Nov. 3 - Jan. 31	Nov. 5 - Feb. 15	Oct. 27 - Feb. 28	Nov. 12 - Feb. 28	Oct. 27 - Feb. 28
2013-14	Nov. 2 - Jan. 31	Nov. 5 - Feb. 15	Nov. 2 - Feb. 28	Nov. 11 - Feb. 28	Oct. 26 - Feb. 28
2014-15	Nov. 1 - Jan. 31	Nov. 5 - Feb. 15	Nov. 1 - Feb. 28	Nov. 10 - Mar. 8	Oct. 25 - Mar. 8
2015-16	Nov. 7 - Jan. 31	Nov. 5 - Feb. 15	Oct. 31 - Feb. 29	Nov. 9 - Mar. 6	Oct. 24 - Mar. 6

¹ Mississippi River Zone

² Southern Zone

Table 2. Refuge mink trapping season dates by state and zone during the 20-year period of record. No trapping is allowed before the state muskrat trapping season opens.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN (MZ ¹)	WISCONSIN (SZ ²)
1996-97	Nov. 2 - Jan. 31	Nov. 5 - Jan. 10	Nov. 2 - Feb. 28	Nov. 22 - Jan. 15	Nov. 2 - Dec. 31
1997-98	Nov. 1 - Jan. 31	Nov. 5 - Jan. 10	Nov. 1 - Feb. 28	Dec. 3 - Jan. 15	Nov. 1 - Dec. 31
1998-99	Nov. 7 - Jan. 31	Nov. 5 - Jan. 10	Oct. 31 - Feb. 28	Dec. 2 - Jan. 15	Nov. 7 - Dec. 31
1999-00	Nov. 6 - Jan. 31	Nov. 5 - Jan. 10	Oct. 30 - Feb. 29	Nov. 8 - Jan. 15	Nov. 6 - Dec. 31
2000-01	Nov. 4 - Jan. 31	Nov. 5 - Jan. 15	Oct. 28 - Feb. 28	Nov. 13 - Jan. 15	Nov. 4 - Dec. 31
2001-02	Nov. 3 - Jan. 31	Nov. 5 - Jan. 15	Oct. 27 - Feb. 28	Nov. 12 - Jan. 15	Nov. 3 - Dec. 31
2002-03	Nov. 2 - Jan. 31	Nov. 5 - Jan. 15	Nov. 2 - Feb. 28	Nov. 11 - Jan. 15	Nov. 2 - Dec. 31
2003-04	Nov. 1 - Jan. 31	Nov. 5 - Jan. 15	Nov. 1 - Feb. 29	Nov. 10 - Jan. 15	Nov. 1 - Dec. 31
2004-05	Nov. 6 - Jan. 31	Nov. 5 - Jan. 15	Oct. 30 - Feb. 28	Nov. 8 - Jan. 15	Oct. 30 - Dec. 31
2005-06	Nov. 5 - Jan. 31	Nov. 5 - Jan. 20	Oct. 29 - Feb. 28	Nov. 14 - Feb. 28	Oct. 29 - Feb. 28
2006-07	Nov. 4 - Jan. 31	Nov. 5 - Jan. 20	Oct. 28 - Feb. 28	Nov. 13 - Feb. 28	Oct. 28 - Feb. 28
2007-08	Nov. 3 - Jan. 31	Nov. 5 - Jan. 20	Oct. 27 - Feb. 29	Nov. 12 - Feb. 29	Oct. 27 - Feb. 29
2008-09	Nov. 1 - Jan. 31	Nov. 5 - Jan. 20	Nov. 1 - Feb. 28	Nov. 10 - Feb. 28	Oct. 25 - Feb. 28
2009-10	Nov. 7 - Jan. 31	Nov. 5 - Jan. 20	Oct. 31 - Feb. 28	Nov. 9 - Feb. 28	Oct. 31 - Feb. 28
2010-11	Nov. 6 - Jan. 31	Nov. 5 - Jan. 20	Oct. 30 - Feb. 28	Nov. 8 - Feb. 28	Oct. 30 - Feb. 28
2011-12	Nov. 5 - Jan. 31	Nov. 5 - Jan. 20	Oct. 29 - Feb. 29	Nov. 14 - Feb. 29	Oct. 29 - Feb. 29
2012-13	Nov. 3 - Jan. 31	Nov. 5 - Feb. 15	Oct. 27 - Feb. 28	Nov. 12 - Feb. 28	Oct. 27 - Feb. 28
2013-14	Nov. 2 - Jan. 31	Nov. 5 - Feb. 15	Nov. 2 - Feb. 28	Nov. 11 - Feb. 28	Oct. 26 - Feb. 28
2014-15	Nov. 1 - Jan. 31	Nov. 5 - Feb. 15	Nov. 1 - Feb. 28	Nov. 10 - Mar. 8	Oct. 25 - Mar. 8
2015-16	Nov. 7 - Jan. 31	Nov. 5 - Feb. 15	Oct. 31 - Feb. 29	Nov. 9 - Mar. 6	Oct. 24 - Mar. 6

¹ Mississippi River Zone

² Southern Zone

Table 3. Refuge raccoon trapping season dates by state and zone during the 20-year period of record. No trapping is allowed before the state muskrat trapping season opens.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN (MZ ¹)	WISCONSIN (SZ ²)
1996-97	Nov. 2 - Jan. 31	Nov. 5 - Jan. 10	Nov. 2 - Mar. 15	Nov. 22 - Jan. 31	Nov. 2 - Jan. 31
1997-98	Nov. 1 - Jan. 31	Nov. 5 - Jan. 10	Nov. 1 - Mar. 15	Dec. 3 - Jan. 31	Nov. 1 - Jan. 31
1998-99	Nov. 7 - Jan. 31	Nov. 5 - Jan. 10	Oct. 31 - Mar. 15	Dec. 2 - Jan. 31	Nov. 7 - Jan. 31
1999-00	Nov. 6 - Jan. 31	Nov. 5 - Jan. 10	Oct. 30 - Mar. 15	Nov. 8 - Jan. 31	Nov. 6 - Jan. 31
2000-01	Nov. 4 - Jan. 31	Nov. 5 - Jan. 15	Oct. 28 - Mar. 15	Nov. 13 - Jan. 31	Nov. 4 - Jan. 31
2001-02	Nov. 3 - Jan. 31	Nov. 5 - Jan. 15	Oct. 27 - Mar. 15	Nov. 12 - Jan. 31	Nov. 3 - Jan. 31
2002-03	Nov. 2 - Jan. 31	Nov. 5 - Jan. 15	Nov. 2 - Mar. 15	Nov. 11 - Jan. 31	Nov. 2 - Jan. 31
2003-04	Nov. 1 - Jan. 31	Nov. 5 - Jan. 15	Nov. 1 - Mar. 15	Nov. 10 - Jan. 31	Nov. 1 - Jan. 31
2004-05	Nov. 6 - Jan. 31	Nov. 5 - Jan. 15	Oct. 30 - Mar. 15	Nov. 8 - Jan. 31	Oct. 30 - Jan. 31
2005-06	Nov. 5 - Jan. 31	Nov. 5 - Jan. 20	Oct. 29 - Mar. 15	Nov. 14 - Jan. 31	Oct. 29 - Jan. 31
2006-07	Nov. 4 - Jan. 31	Nov. 5 - Jan. 20	Oct. 28 - Mar. 15	Nov. 13 - Jan. 31	Oct. 28 - Jan. 31
2007-08	Nov. 3 - Jan. 31	Nov. 5 - Jan. 20	Oct. 27 - Mar. 15	Nov. 12 - Jan. 31	Oct. 27 - Jan. 31
2008-09	Nov. 1 - Jan. 31	Nov. 5 - Jan. 20	Nov. 1 - Mar. 15	Nov. 10 - Feb. 15	Oct. 25 - Feb. 15
2009-10	Nov. 7 - Jan. 31	Nov. 5 - Jan. 20	Oct. 31 - Mar. 15	Nov. 9 - Feb. 15	Oct. 31 - Feb. 15
2010-11	Nov. 6 - Jan. 31	Nov. 5 - Jan. 20	Oct. 30 - Mar. 15	Nov. 8 - Feb. 15	Oct. 30 - Feb. 15
2011-12	Nov. 5 - Jan. 31	Nov. 5 - Jan. 20	Oct. 29 - Mar. 15	Nov. 14 - Feb. 15	Oct. 29 - Feb. 15
2012-13	Nov. 3 - Jan. 31	Nov. 5 - Jan. 20	Oct. 27 - Mar. 15	Nov. 12 - Feb. 15	Oct. 27 - Feb. 15
2013-14	Nov. 2 - Jan. 31	Nov. 5 - Jan. 20	Nov. 2 - Mar. 15	Nov. 11 - Feb. 15	Oct. 26 - Feb. 15
2014-15	Nov. 1 - Jan. 31	Nov. 5 - Jan. 20	Nov. 1 - Mar. 15	Nov. 10 - Feb. 15	Oct. 25 - Feb. 15
2015-16	Nov. 7 - Jan. 31	Nov. 5 - Jan. 20	Oct. 31 - Mar. 15	Nov. 9 - Feb. 15	Oct. 24 - Feb. 15

¹ Mississippi River Zone

² Southern Zone

Table 4. Refuge beaver trapping season dates by state and zone during the 20-year period of record. No trapping is allowed before the state muskrat trapping season opens.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN (MZ ¹)	WISCONSIN (SZ ²)
1996-97	Nov. 2 - Mar. 15	Nov. 5 - Mar. 15	Nov. 2 - Mar. 15	Nov. 22 - Mar. 15	Dec. 1 - Mar. 15
1997-98	Nov. 1 - Mar. 15	Nov. 5 - Mar. 15	Nov. 1 - Mar. 15	Dec. 3 - Mar. 15	Nov. 1 - Mar. 15
1998-99	Nov. 7 - Mar. 15	Nov. 5 - Mar. 15	Oct. 31 - Mar. 15	Dec. 2 - Mar. 15	Nov. 7 - Mar. 15
1999-00	Nov. 6 - Mar. 15	Nov. 5 - Mar. 15	Oct. 30 - Mar. 15	Dec. 1 - Mar. 15	Nov. 6 - Mar. 15
2000-01	Nov. 4 - Mar. 15	Nov. 5 - Mar. 15	Oct. 28 - Mar. 15	Nov. 29 - Mar. 15	Nov. 4 - Mar. 15
2001-02	Nov. 3 - Mar. 15	Nov. 5 - Mar. 15	Oct. 27 - Mar. 15	Nov. 28 - Mar. 15	Nov. 3 - Mar. 15
2002-03	Nov. 2 - Mar. 15	Nov. 5 - Mar. 15	Nov. 2 - Mar. 15	Dec. 9 - Mar. 15	Nov. 2 - Mar. 15
2003-04	Nov. 1 - Mar. 15	Nov. 5 - Mar. 15	Nov. 1 - Mar. 15	Dec. 8 - Mar. 15	Nov. 1 - Mar. 15
2004-05	Nov. 6 - Mar. 15	Nov. 5 - Mar. 15	Oct. 30 - Mar. 15	Dec. 6 - Mar. 15	Nov. 6 - Mar. 15
2005-06	Nov. 5 - Mar. 15	Nov. 5 - Mar. 15	Oct. 29 - Mar. 15	Dec. 5 - Mar. 15	Nov. 5 - Mar. 15
2006-07	Nov. 4 - Mar. 15	Nov. 5 - Mar. 15	Oct. 28 - Mar. 15	Dec. 6 - Mar. 15	Nov. 4 - Mar. 15
2007-08	Nov. 3 - Mar. 15	Nov. 5 - Mar. 15	Oct. 27 - Mar. 15	Dec. 3 - Mar. 15	Nov. 3 - Mar. 15
2008-09	Nov. 1 - Mar. 15	Nov. 5 - Mar. 15	Nov. 1 - Mar. 15	Dec. 8 - Mar. 15	Nov. 1 - Mar. 15
2009-10	Nov. 7 - Mar. 15	Nov. 5 - Mar. 15	Oct. 31 - Mar. 15	Dec. 7 - Mar. 15	Nov. 7 - Mar. 15
2010-11	Nov. 6 - Mar. 15	Nov. 5 - Mar. 15	Oct. 30 - Mar. 15	Dec. 6 - Mar. 15	Nov. 6 - Mar. 15
2011-12	Nov. 5 - Mar. 15	Nov. 5 - Mar. 15	Oct. 29 - Mar. 15	Dec. 5 - Mar. 15	Nov. 5 - Mar. 15
2012-13	Nov. 3 - Mar. 15	Nov. 5 - Mar. 15	Oct. 27 - Mar. 15	Dec. 3 - Mar. 15	Nov. 3 - Mar. 15
2013-14	Nov. 2 - Mar. 15	Nov. 5 - Mar. 15	Nov. 2 - Mar. 15	Dec. 2 - Mar. 15	Nov. 2 - Mar. 15
2014-15	Nov. 1 - Mar. 15	Nov. 5 - Mar. 15	Nov. 1 - Mar. 15	Dec. 8 - Mar. 15	Nov. 1 - Mar. 15
2015-16	Nov. 7 - Mar. 15	Nov. 5 - Mar. 15	Oct. 31 - Mar. 15	Dec. 9 - Mar. 15	Nov. 7 - Mar. 15

¹ Mississippi River Zone (Zone D)

² Southern Zone (Zone C)

Table 5. Refuge river otter trapping season dates by state and zone during the 20-year period of record. No trapping is allowed before the state muskrat trapping season opens.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN (MZ ¹)	WISCONSIN (SZ ²)
1996-97	Closed	Closed	Closed	Dec. 7 - Mar. 2	Dec. 7 - Mar. 2
1997-98	Closed	Closed	Closed	Dec. 6 - Mar. 1	Dec. 6 - Mar. 1
1998-99	Closed	Closed	Closed	Dec. 5 - Mar. 7	Dec. 5 - Mar. 7
1999-00	Closed	Closed	Closed	Dec. 4 - Mar. 4	Dec. 4 - Mar. 4
2000-01	Closed	Closed	Closed	Dec. 2 - Mar. 4	Dec. 2 - Mar. 4
2001-02	Closed	Closed	Closed	Dec. 1 - Mar. 3	Dec. 1 - Mar. 3
2002-03	Closed	Closed	Closed	Dec. 7 - Mar. 2	Dec. 7 - Mar. 2
2003-04	Closed	Closed	Closed	Dec. 6 - Mar. 7	Dec. 6 - Mar. 7
2004-05	Closed	Closed	Closed	Dec. 4 - Mar. 6	Dec. 4 - Mar. 6
2005-06	Closed	Closed	Closed	Nov. 14 - Mar. 6	Nov. 5 - Mar. 6
2006-07	Nov. 4 - Jan. 31	Closed	Closed	Nov. 13 - Mar. 15	Nov. 4 - Mar. 15
2007-08	Nov. 3 - Jan. 31	Closed	Oct. 27 - Jan. 6	Nov. 12 - Mar. 15	Nov. 3 - Mar. 15
2008-09	Nov. 1 - Jan. 31	Closed	Nov. 1 - Jan. 4	Nov. 10 - Mar. 15	Nov. 1 - Mar. 15
2009-10	Nov. 7 - Jan. 31	Closed	Oct. 31 - Jan. 3	Nov. 9 - Mar. 15	Nov. 7 - Mar. 15
2010-11	Nov. 6 - Jan. 31	Closed	Oct. 30 - Jan. 9	Nov. 8 - Mar. 15	Nov. 6 - Mar. 15
2011-12	Nov. 5 - Jan. 31	Closed	Oct. 29 - Jan. 8	Nov. 14 - Mar. 15	Nov. 5 - Mar. 15
2012-13	Nov. 3 - Jan. 31	Nov. 5 - Mar. 15	Oct. 27 - Jan. 6	Nov. 12 - Mar. 15	Nov. 3 - Mar. 15
2013-14	Nov. 2 - Jan. 31	Nov. 5 - Mar. 15	Nov. 2 - Jan. 5	Nov. 11 - Mar. 15	Nov. 2 - Mar. 15
2014-15	Nov. 1 - Jan. 31	Nov. 5 - Mar. 15	Nov. 1 - Jan. 4	Nov. 10 - Mar. 15	Nov. 1 - Mar. 15
2015-16	Nov. 7 - Jan. 31	Nov. 5 - Mar. 15	Oct. 31 - Jan. 3	Nov. 9 - Mar. 15	Nov. 7 - Mar. 15

¹ Mississippi River Zone

² Southern Zone

Appendix D: Trapping Effort

Table 6. Number of trapping special use permits issued and number of active trappers by state on the refuge during the 20-year period of record. Active trappers are defined as those who trap at least one day per season. A few trappers have trapped in multiple states since the 2006-07 trapping season.

Trapping Season	IOWA		ILLINOIS		MINNESOTA		WISCONSIN		TOTAL (4 STATES)	
	Permits Issued	Active Trappers	Permits Issued	Active Trappers						
1996-97	118	97	61	49	75	60	212	162	466	368
1997-98	132	120	60	47	84	72	231	198	507	437
1998-99	103	77	58	42	69	55	166	145	396	319
1999-00	66	55	32	25	45	40	146	129	289	249
2000-01	70	56	40	34	49	46	145	116	304	252
2001-02	63	52	37	24	41	38	140	112	281	226
2002-03	62	48	21	22	43	40	142	115	268	225
2003-04	63	49	32	31	45	41	148	124	288	245
2004-05	64	57	41	37	53	48	146	122	304	264
2005-06	53	47	32	30	46	38	139	118	270	233
2006-07	122	115	56	49	70	60	270	233	518	454
2007-08	73	59	39	34	56	44	168	132	336	265
2008-09	73	56	24	21	61	50	156	132	314	256
2009-10	65	55	20	21	50	40	161	136	296	249
2010-11	65	57	25	23	57	46	188	151	335	272
2011-12	74	62	25	21	65	51	189	160	354	292
2012-13	72	56	33	33	69	53	169	139	343	277
2013-14	74	62	28	23	76	58	167	133	345	270
2014-15	57	45	30	19	54	40	139	106	280	209
2015-16	52	40	8	12	43	37	99	83	202	170
Average	76	63	35	30	58	48	166	137	335	277

Table 7. Number of trapping special use permits issued and number of active trappers on the refuge during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

Trapping Season	Permits Issued	No Fur Catch Submitted	Inactive Trappers	Active Trappers	TOTAL Days Trapped (Pools 4-14)	Average Days/Trapper	Average Traps Used/Day
1996-97	466	24	74	368	7,583	21	NA
1997-98	507	32	38	437	10,138	23	NA
1998-99	396	22	55	319	5,834	18	29
1999-00	289	8	32	249	5,803	23	28
2000-01	304	0	52	252	4,685	19	28
2001-02	281	18	37	226	4,703	21	26
2002-03	268	3	40	225	5,262	23	31
2003-04	288	4	39	245	5,908	24	31
2004-05	304	3	37	264	5,543	21	30
2005-06	270	2	35	233	6,142	26	34
2006-07	518	9	55	454	11,939	26	35
2007-08	336	2	69	265	5,014	19	28
2008-09	314	19	39	256	4,483	18	28
2009-10	296	16	31	249	6,720	27	29
2010-11	335	10	53	272	5,757	21	26
2011-12	354	19	43	292	5,981	20	24
2012-13	343	21	45	277	5,919	21	24
2013-14	345	16	59	270	5,306	20	24
2014-15	280	13	58	209	3,824	18	24
2015-16	202	7	25	170	3,126	18	25
AVERAGE	335	12	46	277	5,984	21	28

Table 8. Number of trapping special use permits issued and number of active trappers in the Winona District during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

Trapping Season	Permits Issued	No Fur Catch Submitted	Inactive Trappers	Active Trappers	Days Trapped				TOTAL (Pools 4-6)
					Pool 4	Pool 5	Pool 5A	Pool 6	
1996-97	94	7	22	65	259	315	422	310	1,306
1997-98	103	7	9	87	612	530	520	274	1,936
1998-99	87	5	19	63	171	372	432	271	1,246
1999-00	59	4	6	49	98	283	346	357	1,084
2000-01	60	0	12	48	275	204	494	177	1,150
2001-02	60	3	5	52	366	362	311	158	1,197
2002-03	60	1	6	53	462	273	304	117	1,156
2003-04	62	0	9	53	319	264	496	192	1,271
2004-05	67	1	10	56	219	300	448	193	1,160
2005-06	60	0	12	48	375	327	396	211	1,309
2006-07	101	0	13	88	838	606	446	224	2,114
2007-08	80	0	18	62	322	333	347	108	1,110
2008-09	78	4	12	62	199	373	309	228	1,109
2009-10	67	7	8	52	387	365	377	165	1,294
2010-11	79	3	16	60	204	324	404	195	1,127
2011-12	82	6	12	64	367	406	291	194	1,258
2012-13	100	6	15	79	508	287	415	187	1,397
2013-14	93	3	13	77	505	439	277	342	1,563
2014-15	77	2	18	57	335	274	215	137	961
2015-16	55	3	5	47	162	219	358	122	861
AVERAGE	76	3	12	61	349	343	380	208	1,280

Table 9. Number of trapping special use permits issued and number of active trappers in the La Crosse District during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

Trapping Season	Permits Issued	No Fur Catch Submitted	Inactive Trappers	Active Trappers	Days Trapped		
					Pool 7	Pool 8	TOTAL (Pools 7-8)
1996-97	131	2	35	94	1,095	1,089	2,184
1997-98	148	11	14	123	1,270	1,271	2,541
1998-99	115	1	25	89	928	974	1,902
1999-00	87	1	10	76	1,068	1,165	2,233
2000-01	89	0	17	72	717	837	1,554
2001-02	84	4	18	62	720	722	1,442
2002-03	93	0	21	72	782	1,078	1,860
2003-04	95	1	15	79	1,084	1,076	2,160
2004-05	92	0	15	77	564	1,157	1,721
2005-06	87	1	12	74	617	1,228	1,845
2006-07	171	6	22	143	1,402	1,952	3,354
2007-08	102	1	17	84	470	899	1,369
2008-09	95	3	8	84	530	827	1,357
2009-10	106	4	11	91	569	1,708	2,277
2010-11	124	3	19	102	437	1,533	1,970
2011-12	134	4	16	114	648	1,350	1,998
2012-13	99	4	13	82	628	1,157	1,785
2013-14	116	4	19	93	614	1,209	1,823
2014-15	88	4	17	67	461	1,033	1,494
2015-16	74	3	13	58	327	808	1,135
AVERAGE	107	3	17	87	747	1,154	1,900

Table 10. Number of trapping special use permits issued and number of active trappers in the McGregor District during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

Trapping Season	Permits Issued	No Fur Catch Submitted	Inactive Trappers	Active Trappers	Days Trapped			
					Pool 9	Pool 10	Pool 11	TOTAL (Pools 9-11)
1996-97	145	6	8	131	1,488	798	291	2,577
1997-98	155	5	10	140	2,041	1,268	665	3,974
1998-99	100	2	2	96	697	573	324	1,594
1999-00	88	0	8	80	732	505	338	1,575
2000-01	96	0	9	87	705	374	170	1,249
2001-02	79	5	6	68	571	440	171	1,182
2002-03	67	1	8	58	603	339	364	1,306
2003-04	77	2	12	63	643	524	257	1,424
2004-05	77	0	7	70	694	501	297	1,492
2005-06	73	0	8	65	1,099	640	264	2,003
2006-07	142	1	10	131	2,087	1,579	630	4,296
2007-08	86	1	22	63	844	432	283	1,559
2008-09	85	6	12	67	754	293	169	1,216
2009-10	73	1	8	64	1,560	502	216	2,278
2010-11	81	0	14	67	1,031	472	372	1,875
2011-12	88	2	12	74	920	444	588	1,952
2012-13	76	4	9	63	807	527	406	1,740
2013-14	79	6	15	58	737	192	245	1,174
2014-15	65	2	11	52	378	187	281	846
2015-16	34	0	5	29	374	128	114	616
AVERAGE	88	2	10	76	938	536	322	1,796

Table 11. Number of trapping special use permits issued and number of active trappers in the Savanna District during the 20-year period of record. Active trappers are defined as those who trap at least one day per season.

Trapping Season	Permits Issued	No Fur Catch Submitted	Inactive Trappers	Active Trappers	Days Trapped			
					Pool 12	Pool 13	Pool 14	TOTAL (Pools 12-14)
1996-97	96	9	9	78	243	978	295	1,516
1997-98	101	9	5	87	441	1,022	224	1,687
1998-99	94	14	9	71	239	718	135	1,092
1999-00	55	3	8	44	174	623	114	911
2000-01	59	0	14	45	160	455	117	732
2001-02	58	6	8	44	135	553	194	882
2002-03	48	1	5	42	167	604	169	940
2003-04	54	1	3	50	164	724	165	1,053
2004-05	68	2	5	61	211	703	256	1,170
2005-06	50	1	3	46	236	569	180	985
2006-07	104	2	10	92	596	1,379	200	2,175
2007-08	68	0	12	56	225	579	172	976
2008-09	56	6	7	43	182	457	162	801
2009-10	50	4	4	42	257	474	140	871
2010-11	51	4	4	43	186	458	141	785
2011-12	50	7	3	40	207	442	124	773
2012-13	68	7	8	53	198	577	222	997
2013-14	57	3	12	42	120	496	130	746
2014-15	50	5	12	33	100	313	110	523
2015-16	39	1	2	36	148	287	79	514
AVERAGE	64	4	7	52	219	621	166	1,006

Appendix E: Furbearer Pelt Price

Table 12. Average muskrat pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	AVERAGE
1996-97	\$1.56	\$4.20	\$3.49	\$4.15	\$3.35
1997-98	\$1.51	\$2.90	\$2.24	\$3.11	\$2.44
1998-99	\$1.66	\$1.45	\$1.11	\$1.52	\$1.44
1999-00	\$1.55	\$1.95	\$1.57	\$2.30	\$1.84
2000-01	\$2.09	\$2.45	\$1.83	\$2.55	\$2.23
2001-02	\$2.43	\$2.90	\$2.32	\$2.99	\$2.66
2002-03	\$1.85	\$2.55	\$2.11	\$2.63	\$2.29
2003-04	\$2.06	\$2.60	\$2.05	\$2.65	\$2.34
2004-05	\$1.85	\$2.35	\$1.90	\$2.56	\$2.17
2005-06	\$6.15	\$3.50	\$2.81	\$4.02	\$4.12
2006-07	\$5.79	\$6.65	\$5.79	\$6.91	\$6.29
2007-08	\$3.08	\$3.15	\$2.96	\$3.42	\$3.15
2008-09	\$2.51	\$2.85	\$1.85	\$2.94	\$2.54
2009-10	\$3.97	\$4.85	\$4.43	\$4.99	\$4.56
2010-11	\$5.31	\$6.50	\$5.33	\$6.82	\$5.99
2011-12	\$5.93	\$6.80	\$5.86	\$7.29	\$6.47
2012-13	\$7.48	\$9.65	\$7.91	\$9.08	\$8.53
2013-14	\$9.28	\$8.90	\$8.72	\$8.90	\$8.95
2014-15	\$4.79	\$4.95	\$4.85	\$5.31	\$4.98
2015-16	NA	NA	NA	NA	NA

Table 13. Average mink pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	AVERAGE
1996-97	\$19.36	\$13.05	\$17.27	\$20.50	\$17.55
1997-98	\$17.86	\$9.50	\$11.59	\$12.56	\$12.88
1998-99	\$16.05	\$6.45	\$7.97	\$8.08	\$9.64
1999-00	\$19.16	\$8.30	\$9.92	\$10.85	\$12.06
2000-01	\$15.46	\$7.80	\$9.43	\$9.96	\$10.66
2001-02	\$17.23	\$7.65	\$8.05	\$8.30	\$10.31
2002-03	\$14.96	\$7.70	\$8.04	\$8.79	\$9.87
2003-04	\$10.51	\$8.85	\$9.32	\$18.84	\$11.88
2004-05	\$10.27	\$9.05	\$10.78	\$11.98	\$10.52
2005-06	\$12.03	\$11.35	\$12.26	\$14.43	\$12.52
2006-07	\$13.07	\$13.00	\$15.61	\$16.08	\$14.44
2007-08	\$14.76	\$10.05	\$10.69	\$11.87	\$11.84
2008-09	\$9.48	\$8.00	\$8.30	\$8.98	\$8.69
2009-10	\$8.22	\$7.70	\$8.69	\$8.76	\$8.34
2010-11	\$12.83	\$11.90	\$11.50	\$13.16	\$12.35
2011-12	\$12.62	\$13.00	\$13.11	\$15.82	\$13.64
2012-13	\$15.91	\$16.80	\$17.90	\$19.57	\$17.55
2013-14	\$16.50	\$15.05	\$15.92	\$17.61	\$16.27
2014-15	\$8.77	\$7.75	\$8.98	\$9.78	\$8.82
2015-16	NA	NA	NA	NA	NA

Table 14. Average raccoon pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	AVERAGE
1996-97	\$8.92	\$12.00	\$15.16	\$14.57	\$12.66
1997-98	\$7.79	\$10.50	\$13.92	\$14.63	\$11.71
1998-99	\$7.21	\$4.90	\$7.25	\$7.09	\$6.61
1999-00	\$8.13	\$4.20	\$5.09	\$5.77	\$5.80
2000-01	\$9.26	\$6.30	\$8.86	\$8.96	\$8.35
2001-02	\$11.69	\$7.55	\$9.53	\$10.17	\$9.74
2002-03	\$12.16	\$7.70	\$10.33	\$9.93	\$10.03
2003-04	\$10.11	\$8.90	\$11.45	\$11.68	\$10.54
2004-05	\$9.62	\$7.70	\$10.49	\$9.73	\$9.39
2005-06	\$11.43	\$6.80	\$9.61	\$8.90	\$9.19
2006-07	\$10.18	\$8.45	\$11.92	\$12.56	\$10.78
2007-08	\$12.34	\$11.30	\$14.32	\$14.27	\$13.06
2008-09	\$9.23	\$7.25	\$9.34	\$9.92	\$8.94
2009-10	\$8.80	\$6.65	\$9.19	\$8.71	\$8.34
2010-11	\$12.52	\$9.05	\$10.87	\$12.26	\$11.18
2011-12	\$10.86	\$8.85	\$12.57	\$12.50	\$11.20
2012-13	\$13.60	\$12.30	\$16.60	\$15.46	\$14.49
2013-14	\$15.85	\$11.55	\$16.58	\$16.94	\$15.23
2014-15	\$10.66	\$5.95	\$8.64	\$8.26	\$8.38
2015-16	NA	NA	NA	NA	NA

Table 15. Average beaver pelt prices (calculated from state Fur Harvest Survey/Fur Buyers reports) during the 20-year period of record. Data for the 2015-16 trapping season was not available at the time this report was completed.

Trapping Season	IA	IL	MN	WI	AVERAGE
1996-97	NA	\$13.35	\$19.24	\$20.44	\$17.68
1997-98	NA	\$12.65	\$16.48	\$17.76	\$15.63
1998-99	NA	\$7.85	\$11.40	\$11.21	\$10.15
1999-00	NA	\$8.20	\$11.51	\$12.83	\$10.85
2000-01	NA	\$9.80	\$14.66	\$15.38	\$13.28
2001-02	NA	\$8.35	\$12.74	\$13.57	\$11.55
2002-03	NA	\$8.15	\$10.05	\$12.67	\$10.29
2003-04	NA	\$10.15	\$12.57	\$14.86	\$12.53
2004-05	NA	\$9.85	\$13.62	\$14.86	\$12.78
2005-06	NA	\$12.50	\$14.48	\$21.15	\$16.04
2006-07	NA	\$14.00	\$18.35	\$20.30	\$17.55
2007-08	NA	\$13.45	\$14.60	\$18.73	\$15.59
2008-09	NA	\$10.00	\$14.63	\$12.94	\$12.52
2009-10	NA	\$9.80	\$12.49	\$14.51	\$12.27
2010-11	\$7.96	\$9.95	\$11.95	\$14.65	\$11.13
2011-12	\$11.46	\$11.90	\$14.29	\$21.15	\$14.70
2012-13	\$13.66	\$13.95	\$18.47	\$22.17	\$17.06
2013-14	\$16.01	\$13.45	\$16.52	\$18.59	\$16.14
2014-15	\$9.51	\$8.95	\$12.40	\$11.70	\$10.64
2015-16	NA	NA	NA	NA	NA

Appendix F: Muskrat Harvest

Table 16. Muskrat harvest by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	TOTAL
1996-97	11,839	4,825	8,426	23,025	48,115
1997-98	17,341	8,608	11,735	45,351	83,035
1998-99	5,876	4,131	7,486	23,624	41,117
1999-00	5,508	3,324	7,275	28,980	45,087
2000-01	3,784	2,432	7,218	16,349	29,783
2001-02	1,837	1,451	4,332	12,900	20,520
2002-03	2,636	3,266	7,147	20,368	33,417
2003-04	4,342	2,926	6,882	21,958	36,108
2004-05	5,370	3,719	7,742	25,031	41,862
2005-06	7,782	4,230	7,363	31,280	50,655
2006-07	22,988	8,488	13,339	59,364	104,179
2007-08	6,109	2,970	6,838	18,170	34,087
2008-09	4,136	1,190	6,832	17,797	29,955
2009-10	7,173	2,316	9,493	37,988	56,970
2010-11	6,895	2,593	5,615	17,054	32,157
2011-12	2,886	798	4,285	10,868	18,837
2012-13	3,022	1,359	3,965	9,930	18,276
2013-14	2,419	800	4,922	12,978	21,119
2014-15	1,710	882	4,987	10,331	17,910
2015-16	2,721	1,179	7,008	12,881	23,789
AVERAGE	6,319	3,074	7,145	22,811	39,349

Table 17. Muskrat harvest by pool and state in the Winona District (Pools 4-6) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 4			Pool 5			Pool 5A			Pool 6			Pools 4-6		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	151	735	886	1,158	498	1,656	3,036	285	3,321	520	536	1,056	4,865	2,054	6,919
1997-98	1,179	3,921	5,100	1,395	604	1,999	2,934	804	3,738	499	1,559	2,058	6,007	6,888	12,895
1998-99	156	1,275	1,431	724	689	1,413	3,079	348	3,427	780	496	1,276	4,739	2,808	7,547
1999-00	0	1,471	1,471	702	671	1,373	2,676	343	3,019	670	976	1,646	4,048	3,461	7,509
2000-01	219	2,277	2,496	875	229	1,104	3,750	260	4,010	405	402	807	5,249	3,168	8,417
2001-02	180	3,062	3,242	802	191	993	1,433	400	1,833	162	188	350	2,577	3,841	6,418
2002-03	421	2,999	3,420	975	459	1,434	2,102	429	2,531	385	154	539	3,883	4,041	7,924
2003-04	18	2,695	2,713	893	286	1,179	3,161	726	3,887	290	180	470	4,362	3,887	8,249
2004-05	92	2,396	2,488	1,304	701	2,005	3,090	327	3,417	291	607	898	4,777	4,031	8,808
2005-06	43	2,915	2,958	475	438	913	2,403	404	2,807	265	624	889	3,186	4,381	7,567
2006-07	1,258	6,889	8,147	2,355	1,652	4,007	2,555	1,130	3,685	557	576	1,133	6,725	10,247	16,972
2007-08	337	1,990	2,327	1,766	328	2,094	2,166	555	2,721	315	46	361	4,584	2,919	7,503
2008-09	183	1,579	1,762	1,669	361	2,030	2,134	609	2,743	407	618	1,025	4,393	3,167	7,560
2009-10	539	4,628	5,167	2,614	485	3,099	2,297	961	3,258	514	447	961	5,964	6,521	12,485
2010-11	232	1,192	1,424	1,171	318	1,489	1,617	499	2,116	465	407	872	3,485	2,416	5,901
2011-12	315	2,383	2,698	826	383	1,209	531	156	687	516	120	636	2,188	3,042	5,230
2012-13	342	2,062	2,404	891	235	1,126	881	229	1,110	389	240	629	2,503	2,766	5,269
2013-14	397	2,949	3,346	1,213	712	1,925	1,240	212	1,452	582	491	1,073	3,432	4,364	7,796
2014-15	360	2,122	2,482	929	187	1,116	1,646	135	1,781	216	351	567	3,151	2,795	5,946
2015-16	498	1,972	2,470	1,330	611	1,941	3,126	358	3,484	614	209	823	5,568	3,150	8,718
AVERAGE	346	2,576	2,922	1,203	502	1,705	2,293	459	2,751	442	461	903	4,284	3,997	8,282

Table 18. Muskrat harvest by pool and state in the La Crosse District (Pools 7-8) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 7			Pool 8			Pools 7-8		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	353	7,613	7,966	2,219	3,018	5,237	2,572	10,631	13,203
1997-98	504	10,794	11,298	2,021	8,040	10,061	2,525	18,834	21,359
1998-99	187	7,238	7,425	1,255	6,174	7,429	1,442	13,412	14,854
1999-00	337	7,728	8,065	1,496	9,150	10,646	1,833	16,878	18,711
2000-01	189	3,316	3,505	1,334	5,051	6,385	1,523	8,367	9,890
2001-02	170	3,484	3,654	1,358	2,305	3,663	1,528	5,789	7,317
2002-03	235	5,421	5,656	2,411	5,292	7,703	2,646	10,713	13,359
2003-04	438	6,051	6,489	1,517	5,897	7,414	1,955	11,948	13,903
2004-05	366	4,947	5,313	1,935	8,107	10,042	2,301	13,054	15,355
2005-06	446	4,847	5,293	2,685	10,657	13,342	3,131	15,504	18,635
2006-07	863	12,674	13,537	4,074	11,423	15,497	4,937	24,097	29,034
2007-08	216	4,013	4,229	1,565	3,730	5,295	1,781	7,743	9,524
2008-09	208	3,615	3,823	1,498	3,789	5,287	1,706	7,404	9,110
2009-10	335	5,618	5,953	1,570	12,043	13,613	1,905	17,661	19,566
2010-11	195	2,283	2,478	1,081	4,084	5,165	1,276	6,367	7,643
2011-12	214	2,389	2,603	1,152	2,994	4,146	1,366	5,383	6,749
2012-13	246	2,476	2,722	1,128	1,846	2,974	1,374	4,322	5,696
2013-14	202	2,320	2,522	1,163	3,016	4,179	1,365	5,336	6,701
2014-15	258	1,582	1,840	1,378	3,053	4,431	1,636	4,635	6,271
2015-16	365	1,745	2,110	949	5,187	6,136	1,314	6,932	8,246
AVERAGE	316	5,008	5,324	1,689	5,743	7,432	2,006	10,751	12,756

Table 19. Muskrat harvest by pool and state in the McGregor District (Pools 9-11) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 9				Pool 10			Pool 11			Pools 9-11			
	IA	MN	WI	TOTAL	IA	WI	TOTAL	IA	WI	TOTAL	IA	MN	WI	TOTAL
1996-97	5,768	989	7,423	14,180	3,063	2,031	5,094	321	886	1,207	9,152	989	10,340	20,481
1997-98	7,715	3,203	12,544	23,462	4,998	4,985	9,983	282	2,100	2,382	12,995	3,203	19,629	35,827
1998-99	2,077	1,305	4,014	7,396	2,238	1,944	4,182	42	1,446	1,488	4,357	1,305	7,404	13,066
1999-00	1,685	1,394	5,385	8,464	1,759	1,654	3,413	95	1,593	1,688	3,539	1,394	8,632	13,565
2000-01	1,025	446	2,808	4,279	1,395	981	2,376	39	1,025	1,064	2,459	446	4,814	7,719
2001-02	580	227	1,757	2,564	532	1,040	1,572	50	473	523	1,162	227	3,270	4,659
2002-03	229	618	3,346	4,193	535	1,189	1,724	452	1,079	1,531	1,216	618	5,614	7,448
2003-04	761	565	2,460	3,786	1,478	2,283	3,761	270	1,380	1,650	2,509	565	6,123	9,197
2004-05	1,195	664	3,736	5,595	1,368	2,351	3,719	529	1,859	2,388	3,092	664	7,946	11,702
2005-06	2,120	1,046	6,487	9,653	2,448	2,581	5,029	77	2,327	2,404	4,645	1,046	11,395	17,086
2006-07	5,769	1,677	13,529	20,975	8,585	7,657	16,242	823	3,834	4,657	15,177	1,677	25,020	41,874
2007-08	3,076	473	4,687	8,236	1,648	1,466	3,114	73	1,160	1,233	4,797	473	7,313	12,583
2008-09	697	733	5,264	6,694	2,182	804	2,986	121	1,141	1,262	3,000	733	7,209	10,942
2009-10	2,467	1,624	9,396	13,487	2,655	3,183	5,838	116	1,043	1,159	5,238	1,624	13,622	20,484
2010-11	1,968	854	4,490	7,312	3,163	2,583	5,746	351	1,161	1,512	5,482	854	8,234	14,570
2011-12	620	731	987	2,338	1,265	575	1,840	402	864	1,266	2,287	731	2,426	5,444
2012-13	799	88	1,402	2,289	1,013	787	1,800	217	653	870	2,029	88	2,842	4,959
2013-14	912	125	2,012	3,049	617	348	965	197	918	1,115	1,726	125	3,278	5,129
2014-15	375	200	1,599	2,174	590	503	1,093	426	777	1,203	1,391	200	2,879	4,470
2015-16	556	126	1,506	2,188	1,068	259	1,327	35	936	971	1,659	126	2,701	4,486
AVERAGE	2,020	854	4,742	7,616	2,130	1,960	4,090	246	1,333	1,579	4,396	854	8,035	13,285

Table 20. Muskrat harvest by pool and state in the Savanna District (Pools 12-14) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 12				Pool 13			Pool 14			Pools 12-14			
	IA	IL	WI	TOTAL	IA	IL	TOTAL	IA	IL	TOTAL	IA	IL	WI	TOTAL
1996-97	430	1,760	0	2,190	2,192	3,038	5,230	65	27	92	2,687	4,825	0	7,512
1997-98	331	2,985	0	3,316	3,493	5,603	9,096	522	20	542	4,346	8,608	0	12,954
1998-99	296	1,697	0	1,993	1,118	2,393	3,511	105	41	146	1,519	4,131	0	5,650
1999-00	253	1,287	9	1,549	1,539	1,992	3,531	177	45	222	1,969	3,324	9	5,302
2000-01	306	558	0	864	647	1,414	2,061	372	460	832	1,325	2,432	0	3,757
2001-02	6	530	0	536	503	861	1,364	166	60	226	675	1,451	0	2,126
2002-03	90	877	0	967	1,144	2,224	3,368	186	165	351	1,420	3,266	0	4,686
2003-04	305	1,274	0	1,579	1,421	1,585	3,006	107	67	174	1,833	2,926	0	4,759
2004-05	193	2,020	0	2,213	1,943	1,627	3,570	142	72	214	2,278	3,719	0	5,997
2005-06	445	2,484	0	2,929	2,210	1,720	3,930	482	26	508	3,137	4,230	0	7,367
2006-07	867	3,816	0	4,683	5,989	4,624	10,613	955	48	1,003	7,811	8,488	0	16,299
2007-08	141	1,560	195	1,896	908	1,289	2,197	263	121	384	1,312	2,970	195	4,477
2008-09	267	591	17	875	729	559	1,288	140	40	180	1,136	1,190	17	2,343
2009-10	195	1,524	184	1,903	1,111	678	1,789	629	114	743	1,935	2,316	184	4,435
2010-11	75	1,644	37	1,756	925	925	1,850	413	24	437	1,413	2,593	37	4,043
2011-12	54	486	17	557	439	312	751	106	0	106	599	798	17	1,414
2012-13	426	396	0	822	382	867	1,249	185	96	281	993	1,359	0	2,352
2013-14	131	184	0	315	261	511	772	301	105	406	693	800	0	1,493
2014-15	12	270	22	304	111	532	643	196	80	276	319	882	22	1,223
2015-16	194	835	98	1,127	596	344	940	272	0	272	1,062	1,179	98	2,339
AVERAGE	251	1,339	29	1,619	1,383	1,655	3,038	289	81	370	1,923	3,074	29	5,026

Table 21. Average number of muskrats trapped per trap night by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports. Information on the number of traps used per trapper was not collected until the 1998-99 trapping season.

Trapping Season	Pool												(Pool 4-14) Average	
	Pool 4	Pool 5	Pool 5A	Pool 6	Pool 7	Pool 8	Pool 9	Pool 10	Pool 11	Pool 12	Pool 13	Pool 14		
1996-97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1997-98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1998-99	0.41	0.20	0.27	0.21	0.33	0.32	0.34	0.29	0.26	0.32	0.24	0.14		0.28
1999-00	0.46	0.20	0.29	0.22	0.33	0.36	0.41	0.25	0.21	0.29	0.24	0.21		0.29
2000-01	0.41	0.20	0.27	0.21	0.33	0.32	0.34	0.29	0.26	0.32	0.24	0.14		0.28
2001-02	0.32	0.13	0.24	0.19	0.29	0.23	0.23	0.39	0.17	0.16	0.22	0.11		0.22
2002-03	0.29	0.25	0.23	0.24	0.30	0.29	0.38	0.30	0.20	0.19	0.22	0.18		0.26
2003-04	0.39	0.20	0.23	0.09	0.26	0.25	0.33	0.27	0.25	0.29	0.15	0.13		0.24
2004-05	0.49	0.25	0.24	0.27	0.33	0.32	0.31	0.24	0.29	0.44	0.21	0.19		0.30
2005-06	0.35	0.19	0.22	0.12	0.27	0.35	0.34	0.29	0.28	0.37	0.22	0.23		0.27
2006-07	0.35	0.22	0.23	0.15	0.31	0.26	0.31	0.32	0.28	0.26	0.24	0.34		0.27
2007-08	0.41	0.22	0.23	0.11	0.30	0.24	0.40	0.29	0.15	0.38	0.18	0.15		0.26
2008-09	0.47	0.18	0.26	0.23	0.27	0.24	0.32	0.33	0.33	0.21	0.12	0.17		0.26
2009-10	0.44	0.28	0.30	0.18	0.35	0.29	0.29	0.35	0.21	0.34	0.15	0.20		0.28
2010-11	0.30	0.23	0.17	0.18	0.21	0.16	0.21	0.36	0.16	0.39	0.17	0.28		0.24
2011-12	0.38	0.15	0.12	0.12	0.19	0.15	0.12	0.18	0.11	0.13	0.09	0.15		0.16
2012-13	0.28	0.15	0.12	0.12	0.18	0.14	0.13	0.17	0.11	0.17	0.11	0.25		0.16
2013-14	0.34	0.15	0.21	0.11	0.21	0.17	0.23	0.23	0.22	0.15	0.08	0.22		0.19
2014-15	0.37	0.17	0.24	0.21	0.21	0.19	0.28	0.26	0.18	0.16	0.10	0.26		0.22
2015-16	0.47	0.28	0.33	0.19	0.27	0.31	0.28	0.38	0.33	0.35	0.19	0.43		0.32
AVERAGE	0.39	0.20	0.23	0.18	0.27	0.26	0.29	0.29	0.22	0.27	0.18	0.21		0.25

Appendix G: Mink Harvest

Table 22. Mink harvest by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	TOTAL
1996-97	81	8	77	284	450
1997-98	90	13	99	232	434
1998-99	56	13	77	141	287
1999-00	30	6	71	182	289
2000-01	33	15	89	186	323
2001-02	51	15	62	93	221
2002-03	56	21	57	150	284
2003-04	75	29	92	184	380
2004-05	94	32	73	230	429
2005-06	41	14	71	263	389
2006-07	157	55	119	442	773
2007-08	58	13	69	206	346
2008-09	38	11	67	163	279
2009-10	60	13	66	232	371
2010-11	47	25	79	173	324
2011-12	100	22	61	204	387
2012-13	84	26	88	178	376
2013-14	53	21	39	92	205
2014-15	28	7	38	65	138
2015-16	34	7	43	59	143
AVERAGE	63	18	72	188	341

Table 23. Mink harvest by pool and state in the Winona District (Pools 4-6) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 4			Pool 5			Pool 5A			Pool 6			Pools 4-6		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	0	2	2	16	4	20	19	1	20	16	4	20	51	11	62
1997-98	11	21	32	19	6	25	28	0	28	3	11	14	61	38	99
1998-99	1	7	8	11	7	18	33	3	36	8	5	13	53	22	75
1999-00	0	3	3	5	9	14	36	4	40	4	16	20	45	32	77
2000-01	2	11	13	5	7	12	43	1	44	4	5	9	54	24	78
2001-02	1	11	12	6	3	9	40	3	43	2	1	3	49	18	67
2002-03	14	9	23	11	7	18	10	4	14	3	2	5	38	22	60
2003-04	0	8	8	28	3	31	34	15	49	3	3	6	65	29	94
2004-05	1	5	6	8	3	11	42	1	43	6	1	7	57	10	67
2005-06	4	12	16	12	5	17	33	7	40	1	7	8	50	31	81
2006-07	10	25	35	45	4	49	34	6	40	2	3	5	91	38	129
2007-08	3	15	18	19	0	19	26	6	32	5	1	6	53	22	75
2008-09	4	6	10	22	0	22	23	7	30	10	4	14	59	17	76
2009-10	7	20	27	25	6	31	16	6	22	6	8	14	54	40	94
2010-11	2	9	11	21	8	29	25	12	37	9	8	17	57	37	94
2011-12	2	8	10	6	3	9	15	5	20	20	4	24	43	20	63
2012-13	11	14	25	14	3	17	42	5	47	4	1	5	71	23	94
2013-14	3	4	7	9	8	17	9	4	13	16	1	17	37	17	54
2014-15	2	15	17	5	1	6	18	1	19	2	3	5	27	20	47
2015-16	1	2	3	6	2	8	19	1	20	11	1	12	37	6	43
AVERAGE	4	10	14	15	4	19	27	5	32	7	4	11	53	24	76

Table 24. Mink harvest by pool and state in the La Crosse District (Pools 7-8) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 7			Pool 8			Pools 7-8		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	0	29	29	22	183	205	22	212	234
1997-98	1	21	22	25	52	77	26	73	99
1998-99	0	14	14	9	56	65	9	70	79
1999-00	4	27	31	11	52	63	15	79	94
2000-01	1	18	19	18	53	71	19	71	90
2001-02	1	28	29	11	20	31	12	48	60
2002-03	1	31	32	12	26	38	13	57	70
2003-04	14	43	57	9	51	60	23	94	117
2004-05	2	25	27	8	125	133	10	150	160
2005-06	4	27	31	8	116	124	12	143	155
2006-07	4	52	56	14	188	202	18	240	258
2007-08	6	20	26	5	69	74	11	89	100
2008-09	2	15	17	3	69	72	5	84	89
2009-10	1	26	27	4	86	90	5	112	117
2010-11	2	16	18	16	45	61	18	61	79
2011-12	1	31	32	8	53	61	9	84	93
2012-13	8	54	62	9	18	27	17	72	89
2013-14	1	20	21	1	32	33	2	52	54
2014-15	1	14	15	10	18	28	11	32	43
2015-16	2	6	8	4	33	37	6	39	45
AVERAGE	3	26	29	10	67	78	13	93	106

Table 25. Mink harvest by pool and state in the McGregor District (Pools 9-11) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 9				Pool 10			Pool 11			Pools 9-11			
	IA	MN	WI	TOTAL	IA	WI	TOTAL	IA	WI	TOTAL	IA	MN	WI	TOTAL
1996-97	22	4	52	78	17	7	24	12	2	14	51	4	61	116
1997-98	44	12	85	141	10	17	27	5	19	24	59	12	121	192
1998-99	29	15	39	83	4	2	6	1	8	9	34	15	49	98
1999-00	19	11	50	80	9	9	18	0	8	8	28	11	67	106
2000-01	19	16	77	112	10	4	14	0	10	10	29	16	91	136
2001-02	26	1	15	42	6	7	13	7	5	12	39	1	27	67
2002-03	11	6	55	72	8	2	10	15	14	29	34	6	71	111
2003-04	25	4	42	71	14	14	28	8	5	13	47	4	61	112
2004-05	36	6	52	94	8	3	11	17	15	32	61	6	70	137
2005-06	19	9	72	100	8	4	12	0	13	13	27	9	89	125
2006-07	58	10	114	182	42	13	55	12	37	49	112	10	164	286
2007-08	28	5	72	105	5	8	13	4	15	19	37	5	95	137
2008-09	5	3	50	58	12	3	15	1	9	10	18	3	62	83
2009-10	15	7	53	75	16	12	28	3	15	18	34	7	80	121
2010-11	14	4	53	71	4	11	15	9	10	19	27	4	74	105
2011-12	33	9	87	129	21	5	26	23	8	31	77	9	100	186
2012-13	30	0	63	93	15	11	26	13	9	22	58	0	83	141
2013-14	22	0	20	42	3	2	5	11	1	12	36	0	23	59
2014-15	7	0	5	12	4	3	7	5	5	10	16	0	13	29
2015-16	18	0	10	28	4	0	4	0	4	4	22	0	14	36
AVERAGE	24	6	53	83	11	7	18	7	11	18	42	6	71	119

Table 26. Mink harvest by pool and state in the Savanna District (Pools 12-14) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 12				Pool 13			Pool 14			Pools 12-14			
	IA	IL	WI	TOTAL	IA	IL	TOTAL	IA	IL	TOTAL	IA	IL	WI	TOTAL
1996-97	1	0	0	1	29	8	37	0	0	0	30	8	0	38
1997-98	17	5	0	22	8	8	16	6	0	6	31	13	0	44
1998-99	16	5	0	21	5	8	13	1	0	1	22	13	0	35
1999-00	0	3	4	7	0	3	3	2	0	2	2	6	4	12
2000-01	2	6	0	8	2	9	11	0	0	0	4	15	0	19
2001-02	2	10	0	12	5	5	10	5	0	5	12	15	0	27
2002-03	3	12	0	15	17	9	26	2	0	2	22	21	0	43
2003-04	1	9	0	10	24	19	43	3	1	4	28	29	0	57
2004-05	9	5	0	14	16	25	41	8	2	10	33	32	0	65
2005-06	2	3	0	5	10	11	21	2	0	2	14	14	0	28
2006-07	8	13	0	21	35	42	77	2	0	2	45	55	0	100
2007-08	1	4	0	5	17	8	25	3	1	4	21	13	0	34
2008-09	2	1	0	3	17	10	27	1	0	1	20	11	0	31
2009-10	5	4	0	9	19	9	28	2	0	2	26	13	0	39
2010-11	3	12	1	16	15	13	28	2	0	2	20	25	1	46
2011-12	4	12	0	16	6	10	16	13	0	13	23	22	0	45
2012-13	3	3	0	6	14	17	31	9	6	15	26	26	0	52
2013-14	5	5	0	10	5	12	17	7	4	11	17	21	0	38
2014-15	4	1	0	5	7	5	12	1	1	2	12	7	0	19
2015-16	1	4	0	5	9	3	12	2	0	2	12	7	0	19
AVERAGE	4	6	0	11	13	12	25	4	1	4	21	18	0	40

Appendix H: Raccoon Harvest

Table 27. Raccoon harvest by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	TOTAL
1996-97	855	868	173	307	2,203
1997-98	1,113	431	230	449	2,223
1998-99	623	413	206	306	1,548
1999-00	693	161	108	252	1,214
2000-01	376	155	130	130	791
2001-02	866	300	183	368	1,717
2002-03	734	292	148	291	1,465
2003-04	780	354	164	235	1,533
2004-05	820	733	213	353	2,119
2005-06	533	251	115	374	1,273
2006-07	1,041	394	127	681	2,243
2007-08	483	227	110	234	1,054
2008-09	408	193	121	191	913
2009-10	216	147	72	270	705
2010-11	353	158	102	302	915
2011-12	763	148	128	641	1,680
2012-13	493	370	189	493	1,545
2013-14	623	340	117	244	1,324
2014-15	211	166	67	134	578
2015-16	152	35	106	109	402
AVERAGE	607	307	140	318	1,372

Table 28. Raccoon harvest by pool and state in the Winona District (Pools 4-6) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 4			Pool 5			Pool 5A			Pool 6			Pools 4-6		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	30	0	30	22	14	36	56	2	58	10	10	20	118	26	144
1997-98	16	31	47	77	20	97	44	3	47	8	13	21	145	67	212
1998-99	25	2	27	30	0	30	96	2	98	17	7	24	168	11	179
1999-00	0	0	0	21	12	33	44	5	49	3	11	14	68	28	96
2000-01	0	4	4	16	2	18	42	2	44	1	9	10	59	17	76
2001-02	1	10	11	36	12	48	86	1	87	3	2	5	126	25	151
2002-03	16	37	53	21	10	31	43	2	45	0	1	1	80	50	130
2003-04	6	0	6	56	6	62	50	10	60	0	0	0	112	16	128
2004-05	16	2	18	31	0	31	103	4	107	13	2	15	163	8	171
2005-06	18	16	34	21	6	27	47	7	54	0	8	8	86	37	123
2006-07	8	20	28	62	3	65	21	2	23	4	4	8	95	29	124
2007-08	4	7	11	29	0	29	27	1	28	12	0	12	72	8	80
2008-09	5	4	9	34	2	36	44	5	49	6	4	10	89	15	104
2009-10	1	11	12	33	12	45	22	10	32	6	1	7	62	34	96
2010-11	3	16	19	9	16	25	26	17	43	1	14	15	39	63	102
2011-12	2	46	48	15	31	46	74	24	98	21	8	29	112	109	221
2012-13	9	31	40	15	15	30	104	53	157	4	2	6	132	101	233
2013-14	5	10	15	12	17	29	17	33	50	28	13	41	62	73	135
2014-15	0	28	28	19	2	21	37	0	37	4	0	4	60	30	90
2015-16	0	0	0	7	4	11	25	6	31	17	0	17	49	10	59
AVERAGE	8	14	22	28	9	38	50	9	60	8	5	13	95	38	133

Table 29. Raccoon harvest by pool and state in the La Crosse District (Pools 7-8) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 7			Pool 8			Pools 7-8		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	0	51	51	39	29	68	39	80	119
1997-98	7	107	114	52	33	85	59	140	199
1998-99	0	56	56	11	146	157	11	202	213
1999-00	4	29	33	4	44	48	8	73	81
2000-01	0	36	36	12	16	28	12	52	64
2001-02	21	89	110	16	77	93	37	166	203
2002-03	7	91	98	22	22	44	29	113	142
2003-04	15	103	118	6	44	50	21	147	168
2004-05	10	60	70	14	156	170	24	216	240
2005-06	2	35	37	3	167	170	5	202	207
2006-07	10	87	97	1	226	227	11	313	324
2007-08	14	66	80	8	107	115	22	173	195
2008-09	4	46	50	5	74	79	9	120	129
2009-10	0	13	13	3	109	112	3	122	125
2010-11	2	63	65	41	71	112	43	134	177
2011-12	6	194	200	3	113	116	9	307	316
2012-13	12	136	148	35	122	157	47	258	305
2013-14	15	29	44	32	103	135	47	132	179
2014-15	2	47	49	5	41	46	7	88	95
2015-16	3	37	40	4	42	46	7	79	86
AVERAGE	7	69	75	16	87	103	23	156	178

Table 30. Raccoon harvest by pool and state in the McGregor District (Pools 9-11) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 9				Pool 10			Pool 11			Pools 9-11			
	IA	MN	WI	TOTAL	IA	WI	TOTAL	IA	WI	TOTAL	IA	MN	WI	TOTAL
1996-97	75	16	86	177	230	59	289	98	56	154	403	16	201	620
1997-98	119	26	117	262	272	60	332	266	65	331	657	26	242	925
1998-99	108	27	51	186	120	24	144	107	18	125	335	27	93	455
1999-00	34	32	28	94	75	62	137	33	46	79	142	32	136	310
2000-01	23	59	22	104	94	16	110	1	23	24	118	59	61	238
2001-02	88	20	14	122	107	131	238	92	32	124	287	20	177	484
2002-03	74	39	33	146	87	43	130	192	52	244	353	39	128	520
2003-04	145	31	13	189	106	47	153	179	12	191	430	31	72	533
2004-05	106	26	40	172	71	52	123	285	37	322	462	26	129	617
2005-06	43	24	77	144	26	17	43	1	41	42	70	24	135	229
2006-07	128	21	159	308	130	70	200	201	110	311	459	21	339	819
2007-08	51	16	24	91	39	20	59	86	9	95	176	16	53	245
2008-09	28	23	38	89	38	10	48	19	7	26	85	23	55	163
2009-10	64	7	77	148	13	15	28	2	21	23	79	7	113	199
2010-11	7	20	89	116	20	10	30	79	6	85	106	20	105	231
2011-12	47	7	177	231	83	29	112	352	17	369	482	7	223	712
2012-13	89	10	45	144	73	75	148	94	14	108	256	10	134	400
2013-14	111	8	9	128	16	15	31	170	15	185	297	8	39	344
2014-15	25	0	11	36	38	5	43	1	0	1	64	0	16	80
2015-16	24	50	8	82	2	1	3	0	11	11	26	50	20	96
AVERAGE	69	23	56	148	82	38	120	113	30	143	264	23	124	411

Table 31. Raccoon harvest by pool and state in the Savanna District (Pools 12-14) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 12				Pool 13			Pool 14			Pools 12-14			
	IA	IL	WI	TOTAL	IA	IL	TOTAL	IA	IL	TOTAL	IA	IL	WI	TOTAL
1996-97	34	144	0	178	322	495	817	96	229	325	452	868	0	1,320
1997-98	89	173	0	262	203	208	411	164	50	214	456	431	0	887
1998-99	22	161	0	183	140	190	330	126	62	188	288	413	0	701
1999-00	39	84	15	138	383	77	460	129	0	129	551	161	15	727
2000-01	35	27	0	62	159	55	214	64	73	137	258	155	0	413
2001-02	67	73	0	140	416	173	589	96	54	150	579	300	0	879
2002-03	122	77	0	199	185	148	333	74	67	141	381	292	0	673
2003-04	62	90	0	152	219	183	402	69	81	150	350	354	0	704
2004-05	92	290	0	382	153	314	467	113	129	242	358	733	0	1,091
2005-06	59	58	0	117	197	193	390	207	0	207	463	251	0	714
2006-07	125	100	0	225	302	294	596	155	0	155	582	394	0	976
2007-08	74	82	0	156	135	104	239	98	41	139	307	227	0	534
2008-09	65	58	1	124	144	90	234	114	45	159	323	193	1	517
2009-10	43	68	1	112	72	78	150	22	1	23	137	147	1	285
2010-11	5	33	0	38	178	105	283	64	20	84	247	158	0	405
2011-12	29	74	2	105	141	74	215	111	0	111	281	148	2	431
2012-13	25	69	0	94	46	220	266	166	81	247	237	370	0	607
2013-14	52	72	0	124	125	193	318	149	75	224	326	340	0	666
2014-15	30	31	0	61	86	99	185	31	36	67	147	166	0	313
2015-16	10	12	0	22	56	23	79	60	0	60	126	35	0	161
AVERAGE	54	89	1	144	183	166	349	105	52	158	342	307	1	650

Appendix I: Beaver Harvest

Table 32. Beaver harvest by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	IOWA	ILLINOIS	MINNESOTA	WISCONSIN	TOTAL
1996-97	508	224	405	1,829	2,966
1997-98	852	247	739	1,739	3,577
1998-99	529	113	424	659	1,725
1999-00	519	146	324	766	1,755
2000-01	277	261	410	655	1,603
2001-02	552	158	385	1,039	2,134
2002-03	246	120	271	617	1,254
2003-04	349	240	365	801	1,755
2004-05	260	240	360	860	1,720
2005-06	560	147	389	1,085	2,181
2006-07	483	223	352	1,370	2,428
2007-08	255	91	313	375	1,034
2008-09	305	107	333	607	1,352
2009-10	185	120	309	682	1,296
2010-11	164	48	189	407	808
2011-12	669	108	455	1,410	2,642
2012-13	421	281	419	1,055	2,176
2013-14	253	119	507	452	1,331
2014-15	197	107	214	669	1,187
2015-16	285	135	263	506	1,189
AVERAGE	393	162	371	879	1,806

Table 33. Beaver harvest by pool and state in the Winona District (Pools 4-6) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 4			Pool 5			Pool 5A			Pool 6			Pools 4-6		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	17	96	113	96	194	290	81	80	161	49	87	136	243	457	700
1997-98	103	213	316	145	164	309	164	36	200	35	58	93	447	471	918
1998-99	33	70	103	110	37	147	127	12	139	25	14	39	295	133	428
1999-00	0	6	6	89	89	178	57	0	57	25	84	109	171	179	350
2000-01	2	133	135	73	65	138	108	29	137	10	54	64	193	281	474
2001-02	14	124	138	76	110	186	45	17	62	14	37	51	149	288	437
2002-03	29	88	117	69	60	129	20	15	35	2	7	9	120	170	290
2003-04	3	168	171	84	69	153	77	44	121	13	50	63	177	331	508
2004-05	36	48	84	87	65	152	71	30	101	16	57	73	210	200	410
2005-06	46	91	137	92	73	165	111	8	119	5	18	23	254	190	444
2006-07	48	54	102	87	120	207	46	26	72	12	36	48	193	236	429
2007-08	24	80	104	87	21	108	84	0	84	26	10	36	221	111	332
2008-09	8	61	69	80	41	121	122	16	138	20	29	49	230	147	377
2009-10	10	65	75	78	53	131	78	17	95	22	27	49	188	162	350
2010-11	1	39	40	57	71	128	47	26	73	18	9	27	123	145	268
2011-12	20	175	195	97	107	204	102	44	146	13	11	24	232	337	569
2012-13	76	154	230	66	64	130	109	60	169	28	15	43	279	293	572
2013-14	46	33	79	86	65	151	106	45	151	36	9	45	274	152	426
2014-15	54	26	80	48	53	101	40	3	43	15	24	39	157	106	263
2015-16	1	45	46	23	30	53	135	38	173	10	13	23	169	126	295
AVERAGE	29	88	117	82	78	159	87	27	114	20	32	52	216	226	442

Table 34. Beaver harvest by pool and state in the La Crosse District (Pools 7-8) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 7			Pool 8			Pools 7-8		
	MN	WI	TOTAL	MN	WI	TOTAL	MN	WI	TOTAL
1996-97	43	350	393	106	179	285	149	529	678
1997-98	59	236	295	108	182	290	167	418	585
1998-99	11	114	125	31	133	164	42	247	289
1999-00	7	155	162	100	120	220	107	275	382
2000-01	43	95	138	90	66	156	133	161	294
2001-02	63	150	213	116	181	297	179	331	510
2002-03	12	111	123	105	131	236	117	242	359
2003-04	77	147	224	66	99	165	143	246	389
2004-05	36	153	189	45	217	262	81	370	451
2005-06	21	120	141	51	152	203	72	272	344
2006-07	34	111	145	52	216	268	86	327	413
2007-08	4	60	64	25	79	104	29	139	168
2008-09	24	99	123	31	137	168	55	236	291
2009-10	21	102	123	26	83	109	47	185	232
2010-11	15	34	49	29	63	92	44	97	141
2011-12	39	174	213	37	337	374	76	511	587
2012-13	40	84	124	79	177	256	119	261	380
2013-14	41	63	104	150	84	234	191	147	338
2014-15	5	179	184	47	98	145	52	277	329
2015-16	22	94	116	45	71	116	67	165	232
AVERAGE	31	132	162	67	140	207	98	272	370

Table 35. Beaver harvest by pool and state in the McGregor District (Pools 9-11) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 9				Pool 10			Pool 11			Pools 9-11			
	IA	MN	WI	TOTAL	IA	WI	TOTAL	IA	WI	TOTAL	IA	MN	WI	TOTAL
1996-97	134	13	409	556	201	263	464	21	171	192	356	13	843	1,212
1997-98	211	125	251	587	256	342	598	195	257	452	662	125	850	1,637
1998-99	114	87	98	299	172	105	277	65	76	141	351	87	279	717
1999-00	150	46	59	255	106	93	199	73	158	231	329	46	310	685
2000-01	49	84	54	187	62	84	146	1	75	76	112	84	213	409
2001-02	107	57	111	275	137	201	338	44	108	152	288	57	420	765
2002-03	87	34	76	197	49	43	92	16	86	102	152	34	205	391
2003-04	114	45	20	179	107	84	191	7	120	127	228	45	224	497
2004-05	91	69	84	244	34	105	139	26	101	127	151	69	290	510
2005-06	134	63	288	485	115	161	276	0	174	174	249	63	623	935
2006-07	134	73	335	542	120	126	246	29	346	375	283	73	807	1,163
2007-08	98	63	69	230	22	19	41	1	33	34	121	63	121	305
2008-09	65	48	142	255	123	5	128	0	77	77	188	48	224	460
2009-10	96	74	258	428	31	36	67	0	40	40	127	74	334	535
2010-11	45	22	99	166	15	7	22	0	59	59	60	22	165	247
2011-12	344	147	324	815	108	118	226	82	112	194	534	147	554	1,235
2012-13	149	21	275	445	123	128	251	25	98	123	297	21	501	819
2013-14	136	42	103	281	31	24	55	13	26	39	180	42	153	375
2014-15	92	5	204	301	25	67	92	25	15	40	142	5	286	433
2015-16	146	27	129	302	46	12	58	0	73	73	192	27	214	433
AVERAGE	125	57	169	351	94	101	195	31	110	141	250	57	381	688

Table 36. Beaver harvest by pool and state in the Savanna District (Pools 12-14) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Pool 12				Pool 13			Pool 14			Pools 12-14			
	IA	IL	WI	TOTAL	IA	IL	TOTAL	IA	IL	TOTAL	IA	IL	WI	TOTAL
1996-97	6	78	0	84	123	135	258	23	11	34	152	224	0	376
1997-98	41	172	0	213	115	75	190	34	0	34	190	247	0	437
1998-99	32	65	0	97	117	48	165	29	0	29	178	113	0	291
1999-00	20	41	2	63	148	105	253	22	0	22	190	146	2	338
2000-01	10	48	0	58	145	194	339	10	19	29	165	261	0	426
2001-02	53	76	0	129	182	66	248	29	16	45	264	158	0	422
2002-03	17	45	0	62	48	67	115	29	8	37	94	120	0	214
2003-04	27	95	0	122	77	124	201	17	21	38	121	240	0	361
2004-05	10	86	0	96	73	138	211	26	16	42	109	240	0	349
2005-06	65	68	0	133	189	79	268	57	0	57	311	147	0	458
2006-07	28	82	0	110	139	141	280	33	0	33	200	223	0	423
2007-08	18	51	4	73	91	31	122	25	9	34	134	91	4	229
2008-09	30	54	0	84	67	46	113	20	7	27	117	107	0	224
2009-10	8	91	1	100	44	14	58	6	15	21	58	120	1	179
2010-11	21	19	0	40	61	21	82	22	8	30	104	48	0	152
2011-12	29	73	8	110	69	35	104	37	0	37	135	108	8	251
2012-13	41	65	0	106	45	197	242	38	19	57	124	281	0	405
2013-14	23	26	0	49	37	86	123	13	7	20	73	119	0	192
2014-15	8	39	0	47	40	64	104	7	4	11	55	107	0	162
2015-16	43	48	1	92	24	87	111	26	0	26	93	135	1	229
AVERAGE	27	66	1	93	92	88	179	25	8	33	143	162	1	306

Appendix J: River Otter Harvest

Table 37. River otter caught (legally harvested, turned over to a Conservation Officer, or released alive) by state on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports. L = Otter legally harvested/tagged, T = Otter turned over to a Conservation Officer, R = Otter released alive.

Trapping Season	IOWA				ILLINOIS				MINNESOTA				WISCONSIN				TOTAL (4 STATES)			
	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL
1996-97	0	0	0	0	0	0	0	0	0	1	0	1	9	1	0	10	9	2	0	11
1997-98	0	2	0	2	0	1	0	1	0	4	0	4	27	1	0	28	27	8	0	35
1998-99	0	0	1	1	0	0	0	0	0	4	0	4	15	1	1	17	15	5	2	22
1999-00	0	1	0	1	0	0	0	0	0	0	0	10	2	0	12	10	3	0	13	
2000-01	0	1	0	1	0	3	0	3	0	0	1	9	1	10	20	9	5	11	25	
2001-02	0	6	0	6	0	3	0	3	0	1	1	24	2	0	26	24	12	1	37	
2002-03	0	1	5	6	0	2	0	2	0	3	0	12	0	3	15	12	6	8	26	
2003-04	0	5	3	8	0	2	0	2	0	1	0	21	10	4	35	21	18	7	46	
2004-05	0	3	1	4	0	6	0	6	0	2	0	7	11	2	20	7	22	3	32	
2005-06	0	10	1	11	0	0	0	0	0	4	0	15	6	0	21	15	20	1	36	
2006-07	10	1	14	25	0	0	0	0	0	0	0	11	4	1	16	21	5	15	41	
2007-08	7	5	0	12	0	3	2	5	5	0	0	4	0	0	4	16	8	2	26	
2008-09	12	0	1	13	0	0	2	2	4	0	0	1	5	0	6	17	5	3	25	
2009-10	4	6	0	10	0	3	0	3	5	2	0	3	8	2	13	12	19	2	33	
2010-11	5	2	0	7	0	0	0	0	1	1	0	5	6	9	20	11	9	9	29	
2011-12	9	1	0	10	0	0	0	0	8	1	1	11	6	8	25	28	8	9	45	
2012-13	0	1	2	3	7	0	0	7	6	0	0	5	11	19	35	18	12	21	51	
2013-14	8	0	0	8	5	0	0	5	8	1	0	4	4	1	9	25	5	1	31	
2014-15	1	0	0	1	4	0	0	4	1	0	0	7	2	0	9	13	2	0	15	
2015-16	2	2	2	6	4	0	2	6	2	3	0	7	2	0	9	15	7	4	26	
AVERAGE	3	2	2	7	1	1	0	2	2	1	0	4	10	4	3	18	16	9	5	30

Table 38. River otter caught (legally harvested, turned over to a Conservation Officer, or released alive) by pool on the refuge during the 20-year period of record, as reported by trappers in mandatory fur catch reports

Trapping Season	Pool												Refuge TOTAL
	Pool 4	Pool 5	Pool 5A	Pool 6	Pool 7	Pool 8	Pool 9	Pool 10	Pool 11	Pool 12	Pool 13	Pool 14	
1996-97	2	0	0	0	1	2	3	0	3	0	0	0	11
1997-98	4	2	3	2	2	5	6	5	5	1	0	0	35
1998-99	3	2	4	1	2	6	2	0	2	0	0	0	22
1999-00	0	1	0	2	3	2	0	1	3	0	1	0	13
2000-01	2	1	0	0	2	1	11	1	3	1	3	0	25
2001-02	3	2	1	1	6	3	6	6	4	5	0	0	37
2002-03	1	1	3	1	7	2	6	0	2	2	1	0	26
2003-04	1	5	2	0	6	1	5	14	6	3	3	0	46
2004-05	0	4	2	2	4	2	6	2	1	5	3	1	32
2005-06	1	5	0	1	2	0	10	2	7	5	3	0	36
2006-07	0	1	0	0	2	2	16	4	7	0	8	1	41
2007-08	0	2	2	1	0	1	1	3	4	3	9	0	26
2008-09	0	0	1	1	1	3	6	4	0	5	2	2	25
2009-10	0	7	0	0	1	3	5	4	2	5	6	0	33
2010-11	0	3	1	0	0	4	4	9	4	2	2	0	29
2011-12	2	5	2	1	3	7	12	4	4	2	3	0	45
2012-13	1	3	1	1	1	6	17	6	1	8	6	0	51
2013-14	2	3	2	0	2	6	5	1	0	3	4	3	31
2014-15	2	2	0	1	0	3	2	0	0	3	2	0	15
2015-16	2	1	0	1	1	6	3	1	0	6	5	0	26
AVERAGE	1	3	1	1	2	3	6	3	3	3	3	0	30

Appendix K: Other Furbearer Harvest

Table 39. Refuge harvest of other furbearers (opossum, coyote, skunk, red fox, gray fox, and badger) during the 20-year period of record, as reported by trappers in mandatory fur catch reports.

Trapping Season	Opossum	Coyote	Skunk	Red Fox	Gray Fox	Badger
1996-97	396	7	23	17	0	0
1997-98	300	2	15	9	0	0
1998-99	375	4	15	9	0	0
1999-00	263	4	6	7	0	0
2000-01	169	10	6	16	0	0
2001-02	108	3	12	10	0	0
2002-03	320	0	4	17	0	0
2003-04	395	1	17	4	0	0
2004-05	439	3	16	22	0	0
2005-06	227	3	7	6	0	0
2006-07	609	20	15	13	0	0
2007-08	370	8	3	6	0	0
2008-09	132	9	6	3	0	1
2009-10	108	1	6	3	0	0
2010-11	105	5	7	0	0	0
2011-12	132	1	11	0	0	0
2012-13	296	8	1	0	0	0
2013-14	200	7	10	1	0	0
2014-15	31	4	4	0	1	0
2015-16	25	4	1	0	0	0
AVERAGE	250	5	9	7	0	0

Appendix L: Other Animals

Table 40. Other animals caught in traps on the refuge during the 20-year period of record that were dead when the trapper arrived or were dispatched by the trapper (numbers in parentheses indicate animals that were released alive), as reported by trappers in mandatory fur catch reports.

Trapping Season	Squirrel	Cat	Dog	Turtle	Fish	Duck	Goose	Coot	Grebe	Great Blue Heron	Sandhill Crane	Norway Rat	Rabbit	Mouse
1996-97	10	7	0	3	0	3	0	0	0	0	0	0	6	0
1997-98	6	5	0	8	0	3	0	0	0	0	0	0	2	0
1998-99	0	1	0	1	0	2	0	0	0	0	0	3	1	0
1999-00	4	2	1	2	0	1	0	0	0	0	0	1	1	0
2000-01	0	5	0	0	0	1	0	0	0	0	0	0	0	0
2001-02	0	1	1	1	0	3	0	0	0	0	0	0	1	30
2002-03	0	6	0	2	0	2	0	0	2	0	0	0	0	1
2003-04	1	1	0	6	1	1	0	0	0	0	0	0	0	0
2004-05	0	3	0	1	0	1	0	0	0	0	0	0	0	0
2005-06	0	0	0	0	0	4	1	0	0	0	0	0	0	0
2006-07	5	2	0	7	0	0	0	0	0	0	0	1	0	0
2007-08	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2008-09	0	1	0	0	0	1	0	0	0	0	0	0	0	0
2009-10	0	0	0	0	0	2	0	0	0	0	0	0	0	0
2010-11	0	0	0	1 (1)	4	3	1	8 (9)	0	0	0	0	0	0
2011-12	2	2	0	1	1	3	2	1	0	0	0	1	(1)	0
2012-13	0	(1)	0	(1)	0	5	1	1	0	0	1 (1)	0	0	0
2013-14	0	6	0	1 (5)	0	3	0	0	0	(1)	0	0	0	0
2014-15	3	0	0	(1)	0	6	0	0	0	0	0	0	0	0
2015-16	0	1	0	0	0	6	0	0	4	0	0	0	0	0