

## Performance Report

**State:** New Hampshire

**Grant:** F20AF11939

**Grant Type:** Survey and Inventory

**Grant Title:** NH – WILDLIFE RESEARCH AND MANAGEMENT (W-89-R-21)

**Period Covered:** July 1, 2022 to June 30, 2023

**Purpose/Target Name:** PROJECT 6 - FURBEARER RESEARCH AND MANAGEMENT

**Objective Name:** JOB 1 - HARVEST MORTALITY DATA COLLECTION, ENTRY AND ANALYSIS

**Objective Statement:** To annually gather and analyze annual harvest information from trappers, fur-buyers and wildlife control operators.

**Summary:** Three hundred ninety three (393) trapping licenses were sold for the 2022-2023 (2022) trapping season, 121 over-68 trapping licenses were active. The estimated value of the pelts taken by trappers during the 2021 season was calculated to be \$46,153. The number of licensed trappers decreased, and harvest for most species decreased as well when compared to the 2021 season. Beaver, coyote, otter, fisher, mink, muskrat, red fox and weasel harvests were below their respective 3-year averages while raccoon, gray fox, and skunk were above their respective 3-year averages. The number of trap nights for beaver, coyote, fisher, mink, muskrat, otter and raccoon remained low in comparison to historic numbers while red and gray fox experienced increased effort. All species experienced an increase in pelt values from the 2021-2022 season.

**Target date:** June 30<sup>th</sup> annually 2021-2025.

**Status of progress:** On schedule.

**Deviations:** None.

**Objective Approach:** Annual furbearer harvest data will be collected from licensed trappers and fur-buyers via mandatory annual trapper and fur-buyer reports. Failure to submit said reports is punishable under state law. Otter pelts will be tagged in accordance with state law by conservation officers to allow for export under US programs for CITES, while other species (e.g., fisher) may be tagged depending on data, research, and/or law enforcement considerations. Catch per unit effort data will be generated and will serve as the principal means by which we track population change.

Harvest data will also be collected from licensed Wildlife Control Operators (WCOs). Since July 2003 WCO's have been required by law to be licensed and are required to submit an annual report of furbearer species taken by town. Failure to report results in loss of their license for the next year. While these data are not analyzed in the same fashion as trapping data, the data is factored in to management decision making.

Furbearer carcasses may be collected to allow for the collection of: 1) furbearer population demographic data, 2) heavy metal and/or toxicant samples, and/or 3) trap performance/impact data as part of national trap testing for the formulation of best management practices.

Annual harvest data will be summarized on the basis of 5 furbearer management regions. Catch per unit effort (CPUE) data will be generated by species, region, year, and historic trends will be monitored to detect notable deviations from established norms.

**Results:** Furbearers are taken throughout the state and trapping remains an important management tool in NH. The number of trapping licenses sold has remained low for the last decade including 393 for the 2022 season. For most of our furbearer species the harvest was well distributed across furbearer management regions (Table 1). Pelt values have experienced a dramatic decline since the historic highs of the 1970's. The decline is particularly dramatic when inflation is considered. Table 2 traces harvest and pelt prices from 2011 to present.

Data analysis suggests that furbearer catch per unit effort represents our best indicator of population trends in the state. Therefore in addition to harvest, trappers are required to provide data on the number of traps and trap nights set per species. Effort data has been available since 1994 and facilitates long-term trend analysis. These data are used to calculate trap nights per species per year (Table 3). By using total trapper effort and the total harvest by species, harvest rates are calculated and are reported as catch per 100 trap-nights of effort (Table 4). Statewide catch per unit effort data are summarized in Table 5. Based on the average pelt value of the Maine Trappers Association's winter auction and the total harvest by species, the economic value of the 2022 season harvest was calculated to be \$46,153 (Table 6). Three-year mean harvests and pelt prices are compared to the current year harvests and prices to determine trends. NH Wildlife Control Operators (WCOs) have been required to purchase a license and report their catch since 2003. The 2021 season represents the most recently available WCO data since these reports are not due until June 30 and many come in late. WCOs took significant proportions of several species as nuisance animals. Nuisance opossums, skunks, beavers, and raccoons constituted a significant proportion of the statewide catch (Table 7).

### Beaver

The 2022 take of 1,175 beaver was down 5.8% from the 2021 season and down 8.5% from the previous 3-year average. The pelt value of \$27.20 was up 81.3% from \$15.00 the previous year and was 122.3% above the previous 3-year average. There was a statewide total of 15,635 trap-nights of effort, which was 6.3% below the previous trap year (Table 3). Catch per 100 trap-nights per WMU is listed in Table 4-a. Table 5 indicates that the statewide catch per 100 trap nights was 7.52 versus 7.48 the previous year. Beaver pelts were valued at \$31,960 to trappers (Table 6). Beavers remain a significant furbearer species in New Hampshire due in part to the diversity of species living in the habitats they create. Beavers provide a significant amount of recreational trapping opportunity and nuisance trapper work.

### Otter

The 2022 otter harvest was 90. This was 18.9% below the previous year's harvest of 111 and 13.2% below the 3-year average. The pelt value at \$33.00 was 83.3% above the previous year and was 31.1% above the previous 3-year average. Trapper effort was 3,422 trap-nights, a decrease of 20.4% from the previous year (Table 3). A season bag limit of 10 otters was established in 1994, and has continued to this day. Catch per 100 trap-nights per WMU is listed in Table 4-g. The mean statewide catch per 100 trap-nights was 2.63, versus 2.58 the previous year (Table 5). Past data analysis suggests that a harvest of 350 otter or more, for several years, could cause a decline in NH's population. The 2022 harvest of 90 is an acceptable harvest. Since 1980 the threshold of 350 has only been attained or surpassed in 1993, 1994, 1996, and 2001.

### Mink

A total of 36 mink were harvested, a decrease of 10% from the previous year and 38.6% below the previous 3-year average. The pelt value of \$8.00 was 53.8% above the previous year and 4.0% below the previous 3-year average. An effort of 2,359 trap-nights was 11.9% below the previous year (Table 3). The mean statewide catch per 100 trap-nights was 1.53 compared to 1.49 the previous year. Trapper effort decreased (Table 3) accompanied by a reduction in take when compared to historic levels (Table 4-e).

### Muskrat

Trappers took 207 muskrat, down 37.8% from the previous year's harvest of 333 and 53.0% below the previous 3-year average. The pelt value decreased from \$3.00 to \$2.35, a decrease of 21.7%, and 37.4% below the 3-year average. Trapper effort was 3,985 trap-nights was 23.3% below the previous year. Catch per 100 trap-nights per WMU is listed in Table 4-f. The mean statewide catch per 100 trap-nights was 5.19 versus 6.41 the previous year (Table 5).

### Fisher

The fisher harvest was 19, a decrease of 13.6% from the previous year and 53% below the previous 3-year average. Fisher pelt values were \$35.50, an increase of 31.5% from the previous year, and 31.5% above the previous 3-year average. Trapper effort was 1,975 trap-nights which was 30.9% above the previous year (Table 3). Fisher catch per 100 trap-nights per WMU data is listed in Table 4-c. The average statewide success rate of fisher harvest per 100 trap-nights was 0.96, compared to 1.46 in 2021 (Table 5).

## Bobcat

The bobcat season remains closed to trapping and hunting. Trappers report the capture and release of bobcats from their sets. Thirty five bobcats were reported incidentally captured and released while 2 bobcats were reported killed. These reports suggest that bobcats occur over a wide area of the state and that the population may be increasing.

## Raccoon

Trappers took a total of 239 raccoons, an increase of 25.1% from the previous year and 16.4% above the previous 3-year average. The pelt value, was \$9.50 and 22.6% above to previous year. However, the value was 128.0% above the previous 3-year average. Trapper effort was 4,919 trap nights (Table 4-h), down 28.5% from the previous year. The mean statewide raccoon catch rate per hundred trap-nights (Table 5) was 4.86 compared to 2.77 the previous year. Catch rates per WMU are provided in Table 4-h. Trapper interest in raccoons remains very low compared to harvests as high as 5,000 over two decades ago. The mid-Atlantic strain of raccoon rabies continues to be endemic in the state.

## Fox

Trappers took a total of 31 gray fox and 68 red fox. The gray fox harvest was up 244.4% from the previous year and down 31.0% from the previous 3-year average. Gray fox pelt value increased 41.0% to \$21.50 from the previous year and was 47.4% above the previous 3-year average. The red fox harvest increased 106.1% from the previous year and was 42.5% below the previous 3-year average. Red fox pelt value increased 42.0% to \$17.40 and was up 22.1% from the previous 3-year average. Trappers expended 10,122 trap-nights in pursuit of red fox, which was 260.2% above the previous year and gray fox trapper effort was 9,112 trap-nights, an increase of 389.4% from the previous year (Table 3). Catch per unit effort for both fox species decreased from the 2021-22 to the 2022-23 season, from 0.48 to 0.34 for gray fox, and from 1.17 to 0.67 for red fox. See Table 5 and Tables 4-d and 4-i for details regarding fox catch rates.

## Coyote

The coyote take decreased 29.9% from 281 to 197. The trapper take was 44.9% below the previous 3-year average. The pelt value increased 7.1% from \$14.00 to \$15.00. The pelt value was 50.2% below the previous 3-year average. Trapper effort was 12,762 trap-nights, which was down 10.1% from the previous year (Table 3). The mean statewide catch per 100 trap-nights decreased from 1.98 to 1.54 (Table 5). Catch rates per WMU are summarized in Table 4-b. A formal coyote trapping season was established in 2005.

**Conclusions:** Analysis of the harvest data is critical to our understanding of the status of New Hampshire furbearer populations, as well as the influence of trapping on furbearers. Trapping plays a key role in mitigating the effects of some species, especially beaver, on forest lands, crops, roadways, and other human uses of the land. While most people appreciate the presence of these species, their attitudes often abruptly change when they have a negative encounter. Furbearers are a valuable natural resource. Trapping and hunting continues to provide valuable services to the state's citizens.

**Custom Qualitative Indicator/Output:** Annual harvest information from trappers, fur-buyers and wildlife control operators has been gathered and analyzed.

**Recommendations:** We recommend that this job continue as planned because it provides critical information for furbearer management in New Hampshire. Harvest data reports obligate trappers to report on the basis of Wildlife Management Units (WMUs). Extensive efforts have been undertaken by our data managers to refine historic furbearer harvest records on the basis of WMUs.

Prepared by: \_\_\_\_\_

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July 17, 2023

**Table 1. NEW HAMPSHIRE 2022-23 TOTAL TRAPPER TAKE BY SPECIES AND REGION (INCLUDING INCIDENTAL TAKE)**

| <b>Total Trapper Take</b> |               |               |               |                 |             |                |                |              |                |                |              |               |
|---------------------------|---------------|---------------|---------------|-----------------|-------------|----------------|----------------|--------------|----------------|----------------|--------------|---------------|
| <b>Region</b>             | <b>BEAVER</b> | <b>COYOTE</b> | <b>FISHER</b> | <b>GRAY FOX</b> | <b>MINK</b> | <b>MUSKRAT</b> | <b>OPOSSUM</b> | <b>OTTER</b> | <b>RACCOON</b> | <b>RED FOX</b> | <b>SKUNK</b> | <b>WEASEL</b> |
| NORTH                     | 151           | 42            | 5             | 3               | 0           | 8              | 0              | 13           | 43             | 3              | 10           | 10            |
| WHITE MTNS                | 171           | 51            | 5             | 15              | 21          | 39             | 5              | 16           | 61             | 22             | 14           | 4             |
| CENTRAL                   | 309           | 40            | 8             | 14              | 11          | 87             | 21             | 27           | 35             | 27             | 9            | 6             |
| SOUTH WEST                | 240           | 32            | 0             | 7               | 6           | 20             | 4              | 23           | 44             | 16             | 5            | 2             |
| SOUTH EAST                | 304           | 38            | 1             | 3               | 3           | 72             | 31             | 27           | 78             | 12             | 38           | 1             |
| <b>TOTAL</b>              | <b>1175</b>   | <b>203</b>    | <b>19</b>     | <b>42</b>       | <b>41</b>   | <b>226</b>     | <b>61</b>      | <b>106</b>   | <b>261</b>     | <b>80</b>      | <b>76</b>    | <b>22</b>     |

**Table 2. NEW HAMPSHIRE STATEWIDE FURBEARER HARVEST AND PRICE RECORDS (2011-2022)**

**Part 1: Grey Fox /Red Fox/Lynx/Marten/Mink/Bear/Beaver/Bobcat**

| Season (Year) | Number of Licensed Trappers | Gray Fox |               | Red Fox |               | Lynx |               | Marten |               | Mink |               | Beaver |               | Bobcat |               |
|---------------|-----------------------------|----------|---------------|---------|---------------|------|---------------|--------|---------------|------|---------------|--------|---------------|--------|---------------|
|               |                             | No.      | Average Price | No.     | Average Price | No.  | Average Price | No.    | Average Price | No.  | Average Price | No.    | Average Price | No.    | Average Price |
| 2011          | 425                         | 114      | \$20.02       | 207     | \$23.85       | -    | -             | 0      | -             | 247  | \$15.22       | 3229   | \$20.20       | 10     | -             |
| 2012          | 474                         | 150      | \$33.82       | 291     | \$37.00       | -    | -             | 9      | -             | 385  | \$16.00       | 2484   | \$22.59       | 14     | -             |
| 2013          | 560                         | 169      | \$28.97       | 257     | \$38.00       | -    | -             | 4      | -             | 275  | \$11.56       | 2269   | \$19.78       | 5      | -             |
| 2014          | 557                         | 76       | \$16.00       | 162     | \$20.00       | -    | -             | 23     | -             | 257  | \$5.55        | 2044   | \$11.93       | 9      | -             |
| 2015          | 548                         | 103      | \$11.00       | 163     | \$18.74       | -    | -             | 5      | -             | 166  | \$7.51        | 2152   | \$12.04       | 7      | -             |
| 2016          | 479                         | 47       | \$12.67       | 98      | \$11.69       | -    | -             | 4      | -             | 106  | \$6.78        | 1085   | \$12.02       | 1      | -             |
| 2017          | 454                         | 56       | \$8.60        | 115     | \$21.00       | -    | -             | 0      | -             | 87   | \$8.00        | 1140   | \$16.00       | 0      | -             |
| 2018          | 463                         | 24       | \$14.50       | 114     | \$14.50       | -    | -             | 3      | -             | 75   | \$9.00        | 1145   | \$15.50       | 5      | -             |
| 2019          | 420                         | 23       | \$16.75       | 132     | \$17.50       | -    | -             | 1      | -             | 32   | \$8.00        | 1056   | \$9.20        | 3      | -             |
| 2020          | 422                         | 33       | \$12.50       | 82      | 10.75         | -    | -             | 0      | -             | 32   | \$8.00        | 893    | \$12.00       | 2      | -             |
| 2021          | 416                         | 13       | \$15.25       | 52      | \$12.25       | -    | -             | 5      | -             | 42   | \$5.20        | 1167   | \$15.00       | 3      | -             |
| 2022          | 393                         | 42       | \$21.50       | 80      | \$17.40       | -    | -             | -      | -             | 41   | \$8.00        | 1175   | \$27.20       | 2      | -             |

Year = the year when the season opened, even though the seasons cross into a second calendar year.

**Table 2. (Cont'd) NEW HAMPSHIRE STATEWIDE FURBEARER HARVEST AND PRICE RECORDS (2011-2022)**

**Part 2: Muskrat/Otter/Raccoon/Skunk/Weasel/Coyote/Fisher**

| Season (Year) | Number of Licensed Trappers | Muskrat |               | Otter |               | Raccoon |               | Skunk |               | Weasel |               | Coyote |               | Fisher |               |
|---------------|-----------------------------|---------|---------------|-------|---------------|---------|---------------|-------|---------------|--------|---------------|--------|---------------|--------|---------------|
|               |                             | No.     | Average Price | No.   | Average Price | No.     | Average Price | No.   | Average Price | No.    | Average Price | No.    | Average Price | No.    | Average Price |
| 2011          | 425                         | 1698    | \$7.94        | 344   | \$64.43       | 347     | \$11.60       | 166   | -             | 28     | -             | 410    | \$15.86       | 255    | \$47.71       |
| 2012          | 474                         | 1800    | \$9.13        | 285   | \$59.43       | 571     | \$8.26        | 226   | \$3.00        | 91     | \$3.00        | 509    | \$22.22       | 269    | \$72.50       |
| 2013          | 560                         | 1658    | \$7.10        | 241   | \$38.75       | 563     | \$5.71        | 144   | -             | 31     | -             | 482    | \$20.97       | 216    | \$55.16       |
| 2014          | 557                         | 1383    | \$4.59        | 166   | \$22.67       | 454     | \$5.90        | 74    | -             | 64     | -             | 434    | \$14.21       | 225    | \$38.53       |
| 2015          | 548                         | 1420    | \$2.30        | 160   | \$31.68       | 415     | \$3.15        | 156   | \$5.00        | 59     | \$1.00        | 485    | \$16.88       | 132    | \$30.07       |
| 2016          | 479                         | 515     | \$2.95        | 143   | \$22.00       | 281     | \$2.91        | 74    | \$5.17        | 19     | \$1.75        | 338    | \$13.62       | 83     | \$32.65       |
| 2017          | 454                         | 500     | \$3.50        | 82    | \$36.00       | 230     | \$6.00        | 106   | \$4.50        | 21     | -             | 390    | \$20.00       | 44     | \$37.50       |
| 2018          | 463                         | 518     | \$3.90        | 77    | \$24.00       | 218     | \$6.50        | 51    | -             | 59     | -             | 282    | \$31.50       | 42     | \$24.00       |
| 2019          | 420                         | 272     | \$3.37        | 101   | \$35.00       | 159     | \$0.00        | 84    | -             | 20     | -             | 322    | \$35.00       | 35     | \$35.00       |
| 2020          | 422                         | 327     | \$4.00        | 84    | \$20.50       | 203     | \$6.00        | 63    | -             | 21     | -             | 277    | \$23.80       | 32     | \$22.00       |
| 2021          | 416                         | 335     | \$3.00        | 106   | \$18.00       | 206     | \$7.75        | 48    | \$8.75        | 19     | \$2.00        | 277    | \$14.00       | 23     | \$27.00       |
| 2022          | 393                         | 226     | \$2.35        | 106   | \$33.00       | 261     | \$9.50        | 76    | \$17.00       | 22     | \$2.25        | 203    | \$15.00       | 19     | \$35.50       |

Year = the year when the season opened, even though the seasons cross into a second calendar year.

**Table 3. NEW HAMPSHIRE TRAPPER EFFORT – CALCULATED TRAP-NIGHTS PER SPECIES PER SEASON**

| Year     | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| BEAVER   | 47103   | 46994   | 38962   | 36996   | 47630   | 16632   | 16478   | 15430   | 22245   | 21066   | 16678   | 15635   |
| COYOTE   | 17082   | 34955   | 40108   | 35744   | 47182   | 27196   | 25591   | 13766   | 31870   | 22860   | 14198   | 12762   |
| FISHER   | 19873   | 18892   | 22880   | 16988   | 12197   | 5202    | 4068    | 3580    | 4296    | 2497    | 1509    | 1975    |
| GRAY FOX | 8540    | 14053   | 18711   | 10997   | 13121   | 10001   | 5482    | 1499    | 8930    | 1077    | 1862    | 9112    |
| MINK     | 12381   | 26881   | 25862   | 13489   | 11585   | 7023    | 4978    | 3654    | 2884    | 4544    | 2677    | 2359    |
| MUSKRAT  | 30124   | 37110   | 32706   | 29454   | 26956   | 9596    | 7656    | 8211    | 6179    | 3947    | 5198    | 3985    |
| OTTER    | 22192   | 22631   | 15531   | 8467    | 11135   | 5279    | 4956    | 3017    | 6144    | 3189    | 4301    | 3422    |
| RACCOON  | 11304   | 22897   | 21233   | 20647   | 12725   | 19867   | 6254    | 8440    | 10077   | 6845    | 6883    | 4919    |
| RED FOX  | 11524   | 21721   | 22830   | 14439   | 18972   | 13895   | 7051    | 5731    | 13076   | 4867    | 2810    | 10122   |

Note: Only data records with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-a. Beaver take, trap nights of effort and catch per 100 trap-nights given as take/effort with catch per 100 trap-nights in parentheses**

| WMU | 2011-12              | 2012-13              | 2013-14              | 2014-15              | 2015-16              | 2016-17              | 2017-18              | 2018-19              | 2019-20              | 2020-21              | 2021-22              | 2022-23              |
|-----|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| A   | 84/555<br>(15.14)    | 84/1208<br>(6.95)    | 72/628<br>(11.46)    | 87/597<br>(14.57)    | 94/618<br>(15.21)    | 32/258<br>(12.40)    | 62/596<br>(10.40)    | 41/309<br>(13.27)    | 32/553<br>(5.79)     | 44/1136<br>(3.87)    | 30/210<br>(14.29)    | 23/129<br>(17.83)    |
| B   | 95/741<br>(12.82)    | 65/516<br>(12.60)    | 67/1013<br>(6.61)    | 145/2558<br>(5.67)   | 126/1762<br>(7.15)   | 146/1762<br>(8.29)   | 90/1464<br>(6.15)    | 57/541<br>(10.54)    | 46/517<br>(8.90)     | 33/525<br>(6.29)     | 47/412<br>(11.41)    | 25/248<br>(10.08)    |
| C1  | 51/298<br>(17.11)    | 48/134<br>(35.82)    | 36/117<br>(30.77)    | 23/90<br>(25.56)     | 26/204<br>(12.75)    | 10/52<br>(19.23)     | 23/194<br>(11.86)    | 20/78<br>(25.64)     | 21/108<br>(19.44)    | 30/69<br>(43.48)     | 37/106<br>(34.91)    | 22/158<br>(13.92)    |
| C2  | 88/638<br>(13.79)    | 54/1753<br>(3.08)    | 22/386<br>(5.70)     | 37/177<br>(20.90)    | 59/3051<br>(1.93)    | 47/302<br>(15.56)    | 35/401<br>(8.73)     | 25/215<br>(11.63)    | 32/209<br>(15.31)    | 28/116<br>(24.14)    | 16/406<br>(3.94)     | 58/269<br>(21.56)    |
| D1  | 36/319<br>(11.29)    | 31/288<br>(10.76)    | 68/1510<br>(4.50)    | 84/1613<br>(5.21)    | 56/528<br>(10.61)    | 53/462<br>(11.47)    | 64/1330<br>(4.81)    | 20/180<br>(11.11)    | 7/116<br>(6.03)      | 68/1016<br>(6.69)    | 46/351<br>(13.11)    | 45/436<br>(10.32)    |
| D2  | 92/611<br>(15.06)    | 76/911<br>(8.34)     | 126/1357<br>(9.29)   | 98/1094<br>(8.96)    | 144/1656<br>(8.70)   | 63/795<br>(7.92)     | 65/585<br>(11.11)    | 64/473<br>(13.53)    | 68/1094<br>(6.22)    | 41/352<br>(11.65)    | 50/426<br>(11.74)    | 68/1061<br>(6.41)    |
| E   | 20/136<br>(14.71)    | 30/173<br>(17.34)    | 9/16<br>(56.25)      | 11/184<br>(5.98)     | 16/201<br>(7.96)     | 18/100<br>(18.00)    | 25/88<br>(28.41)     | 29/244<br>(11.89)    | 22/210<br>(10.48)    | 27/179<br>(15.08)    | 14/315<br>(4.44)     | 44/163<br>(26.99)    |
| F   | 40/772<br>(5.18)     | 49/2070<br>(2.37)    | 75/996<br>(7.53)     | 61/1295<br>(4.71)    | 48/808<br>(5.94)     | 24/173<br>(13.87)    | 46/269<br>(17.10)    | 24/102<br>(23.53)    | 26/413<br>(6.30)     | 47/625<br>(7.52)     | 46/402<br>(11.44)    | 37/628<br>(5.89)     |
| G   | 222/3159<br>(7.03)   | 167/9864<br>(1.69)   | 219/4250<br>(5.15)   | 125/3898<br>(3.21)   | 220/3650<br>(6.03)   | 82/747<br>(10.98)    | 29/266<br>(10.90)    | 49/396<br>(12.37)    | 95/703<br>(13.51)    | 46/471<br>(9.77)     | 71/982<br>(7.23)     | 79/544<br>(14.52)    |
| H1  | 67/1113<br>(6.02)    | 59/738<br>(7.99)     | 39/992<br>(3.93)     | 26/327<br>(7.95)     | 53/1227<br>(4.32)    | 39/592<br>(6.59)     | 26/433<br>(6.00)     | 15/192<br>(7.81)     | 20/1184<br>(1.69)    | 18/658<br>(2.74)     | 49/872<br>(5.62)     | 30/437<br>(6.86)     |
| H2  | 277/2840<br>(9.75)   | 194/1979<br>(9.80)   | 186/2715<br>(6.85)   | 155/2329<br>(6.66)   | 138/2866<br>(4.82)   | 38/1805<br>(2.11)    | 21/244<br>(8.61)     | 74/468<br>(15.81)    | 92/2713<br>(3.39)    | 38/390<br>(9.74)     | 86/1775<br>(4.85)    | 37/718<br>(5.15)     |
| I1  | 223/2019<br>(11.05)  | 128/2342<br>(5.47)   | 172/4424<br>(3.89)   | 99/1022<br>(9.69)    | 125/1523<br>(8.21)   | 54/729<br>(7.41)     | 48/422<br>(11.37)    | 67/463<br>(14.47)    | 102/1458<br>(7.00)   | 71/676<br>(10.50)    | 73/459<br>(15.90)    | 65/359<br>(18.11)    |
| I2  | 125/1545<br>(8.09)   | 122/1013<br>(12.04)  | 138/2952<br>(4.67)   | 109/1018<br>(10.71)  | 117/2160<br>(5.42)   | 49/1067<br>(4.59)    | 47/630<br>(7.46)     | 132/1126<br>(11.72)  | 82/1155<br>(7.10)    | 46/1281<br>(3.59)    | 43/614<br>(7.00)     | 53/372<br>(14.25)    |
| J1  | 191/2299<br>(8.31)   | 134/3186<br>(4.21)   | 93/1214<br>(7.66)    | 66/345<br>(19.13)    | 84/1023<br>(8.21)    | 47/537<br>(8.75)     | 39/733<br>(5.32)     | 57/553<br>(10.31)    | 58/338<br>(17.16)    | 32/215<br>(14.88)    | 65/638<br>(10.19)    | 77/1315<br>(5.86)    |
| J2  | 510/10201<br>(5.00)  | 352/6580<br>(5.35)   | 179/3538<br>(5.06)   | 234/3817<br>(6.13)   | 211/2702<br>(7.81)   | 161/2071<br>(7.77)   | 147/2481<br>(5.93)   | 245/2448<br>(10.01)  | 230/4647<br>(4.95)   | 156/3668<br>(4.25)   | 84/791<br>(10.62)    | 88/1557<br>(5.65)    |
| K   | 409/8542<br>(4.79)   | 310/6076<br>(5.10)   | 221/4149<br>(5.33)   | 231/3351<br>(6.89)   | 264/6069<br>(4.35)   | 97/1277<br>(7.60)    | 100/2388<br>(4.19)   | 144/3564<br>(4.04)   | 105/3640<br>(2.88)   | 104/1476<br>(7.05)   | 126/2307<br>(5.46)   | 120/2253<br>(5.33)   |
| L   | 169/2097<br>(8.06)   | 143/1831<br>(7.81)   | 197/2423<br>(8.13)   | 182/8506<br>(2.14)   | 223/7153<br>(3.12)   | 102/1644<br>(6.20)   | 166/2061<br>(8.05)   | 165/2447<br>(6.74)   | 160/1775<br>(9.01)   | 146/2913<br>(5.01)   | 130/2218<br>(5.86)   | 116/1791<br>(6.48)   |
| M   | 530/9218<br>(5.75)   | 438/6332<br>(6.92)   | 405/6282<br>(6.45)   | 271/4775<br>(5.68)   | 240/10429<br>(2.30)  | 140/2259<br>(6.20)   | 107/1893<br>(5.65)   | 143/1631<br>(8.77)   | 120/1412<br>(8.50)   | 192/5300<br>(3.62)   | 235/3394<br>(6.92)   | 188/3197<br>(5.88)   |
| ALL | 3229/47103<br>(6.86) | 2484/46994<br>(5.29) | 2324/38962<br>(5.96) | 2044/36996<br>(5.52) | 2244/47630<br>(4.71) | 1202/16632<br>(7.23) | 1140/16478<br>(6.92) | 1371/15430<br>(8.89) | 1318/22245<br>(5.92) | 1167/21066<br>(5.54) | 1248/16678<br>(7.48) | 1175/15635<br>(7.52) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-b. Coyote take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12             | 2012-13             | 2013-14             | 2014-15             | 2015-16             | 2016-17             | 2017-18             | 2018-19             | 2019-20             | 2020-21             | 2021-22             | 2022-23             |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| A   | 57/636<br>(8.96)    | 67/4731<br>(1.42)   | 28/1584<br>(1.77)   | 18/1029<br>(1.75)   | 34/1820<br>(1.87)   | 34/2289<br>(1.49)   | 30/4861<br>(0.62)   | 19/1117<br>(1.70)   | 30/1144<br>(2.62)   | 37/1074<br>(3.45)   | 13/701<br>(1.85)    | 1/125<br>(0.80)     |
| B   | 23/386<br>(5.96)    | 12/516<br>(2.33)    | 8/1260<br>(0.63)    | 22/987<br>(2.23)    | 25/2295<br>(1.09)   | 25/2435<br>(1.03)   | 53/3998<br>(1.33)   | 31/2725<br>(1.14)   | 20/6020<br>(0.33)   | 67/2923<br>(2.29)   | 14/1387<br>(1.01)   | 12/375<br>(3.20)    |
| C1  | 10/216<br>(4.63)    | 8/78<br>(10.26)     | 22/445<br>(4.94)    | 28/1403<br>(2.00)   | 8/105<br>(7.62)     | 31/1831<br>(1.69)   | 18/194<br>(9.28)    | 20/366<br>(5.46)    | 12/341<br>(3.52)    | 19/414<br>(4.59)    | 24/354<br>(6.78)    | 4/20<br>(20.00)     |
| C2  | 21/372<br>(5.65)    | 12/478<br>(2.51)    | 19/538<br>(3.53)    | 29/1225<br>(2.37)   | 36/3564<br>(1.01)   | 25/2481<br>(1.01)   | 44/1430<br>(3.08)   | 21/670<br>(3.13)    | 29/323<br>(8.98)    | 31/1297<br>(2.39)   | 18/334<br>(5.39)    | 19/476<br>(3.99)    |
| D1  | 5/145<br>(3.45)     | 28/1388<br>(2.02)   | 28/961<br>(2.91)    | 36/1450<br>(2.48)   | 18/390<br>(4.62)    | 47/1036<br>(4.54)   | 52/1395<br>(3.73)   | 9/95<br>(9.47)      | 9/269<br>(3.35)     | 13/162<br>(8.02)    | 9/138<br>(6.52)     | 10/166<br>(6.02)    |
| D2  | 50/572<br>(8.74)    | 35/2200<br>(1.59)   | 23/1532<br>(1.50)   | 39/2191<br>(1.78)   | 29/1302<br>(2.23)   | 10/628<br>(1.59)    | 28/380<br>(7.37)    | 16/171<br>(9.36)    | 23/541<br>(4.25)    | 6/108<br>(5.56)     | 37/781<br>(4.74)    | 13/498<br>(2.61)    |
| E   | 14/292<br>(4.79)    | 11/432<br>(2.55)    | 5/694<br>(0.72)     | 9/309<br>(2.91)     | 12/440<br>(2.73)    | 4/115<br>(3.48)     | 7/93<br>(7.53)      | 28/452<br>(6.19)    | 16/920<br>(1.74)    | 18/680<br>(2.65)    | 24/2068<br>(1.16)   | 30/5155<br>(0.58)   |
| F   | 1/120<br>(0.83)     | 8/350<br>(2.29)     | 11/228<br>(4.82)    | 5/102<br>(4.90)     | 3/165<br>(1.82)     | 6/68<br>(8.82)      | 7/122<br>(5.74)     | 7/94<br>(7.45)      | 20/775<br>(2.58)    | 23/909<br>(2.53)    | 16/589<br>(2.72)    | 4/111<br>(3.60)     |
| G   | 74/2347<br>(3.15)   | 60/2251<br>(2.67)   | 48/2868<br>(1.67)   | 36/3008<br>(1.20)   | 61/1694<br>(3.60)   | 33/732<br>(4.51)    | 15/422<br>(3.55)    | 22/384<br>(5.73)    | 33/736<br>(4.48)    | 5/382<br>(1.31)     | 16/829<br>(1.93)    | 9/498<br>(1.81)     |
| H1  | 9/154<br>(5.84)     | 30/4670<br>(0.64)   | 12/2913<br>(0.41)   | 5/380<br>(1.32)     | 11/3762<br>(0.29)   | 7/708<br>(0.99)     | 3/290<br>(1.03)     | 4/272<br>(1.47)     | 7/484<br>(1.45)     | 3/465<br>(0.65)     | 1/15<br>(6.67)      | 6/308<br>(1.95)     |
| H2  | 15/1257<br>(1.19)   | 65/1685<br>(3.86)   | 40/4055<br>(0.99)   | 24/1170<br>(2.05)   | 65/3565<br>(1.82)   | 12/1687<br>(0.71)   | 16/787<br>(2.03)    | 7/255<br>(2.75)     | 20/3343<br>(0.60)   | 19/1664<br>(1.14)   | 18/1723<br>(1.04)   | 6/304<br>(1.97)     |
| I1  | 13/1019<br>(1.28)   | 28/1878<br>(1.49)   | 27/1886<br>(1.43)   | 46/4426<br>(1.04)   | 34/1787<br>(1.90)   | 31/2813<br>(1.10)   | 26/1560<br>(1.67)   | 26/941<br>(0.65)    | 25/3861<br>(1.92)   | 34/1774<br>(1.92)   | 6/174<br>(3.45)     | 4/126<br>(3.17)     |
| I2  | 9/795<br>(1.13)     | 39/2307<br>(1.69)   | 53/2675<br>(1.98)   | 38/1648<br>(2.31)   | 23/2195<br>(1.05)   | 7/556<br>(1.26)     | 9/304<br>(2.96)     | 32/954<br>(3.35)    | 5/562<br>(0.89)     | 5/750<br>(0.67)     | 11/231<br>(4.76)    | 9/430<br>(2.09)     |
| J1  | 2/36<br>(5.56)      | 20/1064<br>(1.88)   | 10/199<br>(5.03)    | 22/458<br>(4.80)    | 13/1622<br>(0.80)   | 2/672<br>(0.30)     | 14/2505<br>(0.56)   | 4/799<br>(0.50)     | 33/4288<br>(0.77)   | 16/2007<br>(0.80)   | 11/960<br>(1.15)    | 4/288<br>(1.39)     |
| J2  | 35/1916<br>(1.83)   | 31/4897<br>(0.63)   | 47/5681<br>(0.83)   | 23/5593<br>(0.41)   | 38/4993<br>(0.76)   | 39/3527<br>(1.11)   | 27/2170<br>(1.24)   | 17/439<br>(3.87)    | 41/3361<br>(1.22)   | 46/2117<br>(2.17)   | 8/730<br>(1.10)     | 18/1177<br>(1.53)   |
| K   | 38/3273<br>(1.16)   | 24/1822<br>(1.32)   | 68/6175<br>(1.10)   | 25/2579<br>(0.97)   | 43/7861<br>(0.55)   | 18/2143<br>(0.84)   | 10/2804<br>(0.36)   | 12/2059<br>(0.58)   | 12/958<br>(1.25)    | 8/1916<br>(0.42)    | 15/1099<br>(1.36)   | 11/311<br>(3.54)    |
| L   | 13/1058<br>(1.23)   | 19/1479<br>(1.28)   | 13/2093<br>(0.62)   | 9/840<br>(1.07)     | 19/1974<br>(0.96)   | 19/1081<br>(1.76)   | 16/1685<br>(0.95)   | 13/1011<br>(1.29)   | 17/2746<br>(0.62)   | 18/2383<br>(0.76)   | 34/1434<br>(2.37)   | 8/501<br>(1.60)     |
| M   | 21/2488<br>(0.84)   | 12/2729<br>(0.44)   | 23/4321<br>(0.53)   | 20/6946<br>(0.29)   | 28/7648<br>(0.37)   | 33/2394<br>(1.38)   | 15/591<br>(2.54)    | 11/962<br>(1.14)    | 12/1198<br>(1.00)   | 41/1835<br>(2.23)   | 6/651<br>(0.92)     | 29/1893<br>(1.53)   |
| ALL | 410/17082<br>(2.40) | 509/34955<br>(1.46) | 485/40108<br>(1.21) | 434/35744<br>(1.21) | 500/47182<br>(1.06) | 383/27196<br>(1.41) | 390/25591<br>(1.52) | 299/13766<br>(2.17) | 364/31870<br>(1.14) | 409/22860<br>(1.79) | 281/14198<br>(1.98) | 197/12762<br>(1.54) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.



**Table 4-c. Fisher take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12             | 2012-13             | 2013-14             | 2014-15             | 2015-16             | 2016-17           | 2017-18           | 2018-19           | 2019-20           | 2020-21           | 2021-22           | 2022-23           |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A   | 14/580<br>(2.41)    | 24/922<br>(2.60)    | 15/733<br>(2.05)    | 9/657<br>(1.37)     | 7/816<br>(0.86)     | N/A               | 1/61<br>(1.64)    | 2/35<br>(5.71)    | N/A               | N/A               | 2/40<br>(5.00)    | 1/58<br>(1.72)    |
| B   | 2/375<br>(0.53)     | 5/56<br>(8.93)      | 7/105<br>(6.67)     | 12/651<br>(1.84)    | 5/65<br>(7.69)      | 1/63<br>(1.59)    | N/A               | 5/191<br>(2.62)   | 3/285<br>(1.05)   | 2/361<br>(0.55)   | 4/278<br>(1.44)   | 3/90<br>(3.33)    |
| C1  | 1/174<br>(0.57)     | 9/290<br>(3.10)     | 3/125<br>(2.40)     | 10/266<br>(3.76)    | 0/60<br>(0.00)      | N/A               | 2/126<br>(1.59)   | N/A               | N/A               | 1/1<br>(100)      | N/A               | N/A               |
| C2  | 8/608<br>(1.32)     | 10/476<br>(2.10)    | 2/201<br>(1.00)     | 6/200<br>(3.00)     | 0/90<br>(0.00)      | 0/4<br>(0.00)     | N/A               | 2/148<br>(1.35)   | 0/4<br>(0.00)     | 0/4<br>(0.00)     | N/A               | 1/8<br>(12.50)    |
| D1  | 0/180<br>(0.00)     | 1/8<br>(12.50)      | N/A                 | 5/1813<br>(0.28)    | N/A                 | N/A               | N/A               | 0/42<br>(0.00)    | 1/210<br>(0.48)   | 2/117<br>(1.71)   | 0/30<br>(0.00)    | N/A               |
| D2  | 0/40<br>(0.00)      | 3/146<br>(2.05)     | 2/238<br>(0.84)     | 4/696<br>(0.57)     | 6/402<br>(1.49)     | 2/60<br>(3.33)    | 1/55<br>(1.82)    | 2/72<br>(2.78)    | 0/20<br>(0.00)    | 1/12<br>(8.33)    | 0/14<br>(0.00)    | 1/56<br>(1.79)    |
| E   | 5/418<br>(1.20)     | 4/110<br>(3.64)     | 6/420<br>(1.43)     | 9/1111<br>(0.81)    | 9/680<br>(1.32)     | 4/134<br>(2.99)   | N/A               | N/A               | 1/40<br>(2.50)    | 0/28<br>(0.00)    | N/A               | N/A               |
| F   | 4/244<br>(1.64)     | 4/239<br>(1.67)     | 9/975<br>(0.92)     | 9/906<br>(0.99)     | 1/159<br>(0.63)     | 1/64<br>(1.56)    | 0/81<br>(0.00)    | 1/173<br>(0.58)   | 4/342<br>(1.17)   | 1/195<br>(0.51)   | 0/118<br>(0.00)   | 4/414<br>(0.97)   |
| G   | 25/1103<br>(2.27)   | 11/1210<br>(0.91)   | 9/2012<br>(0.45)    | 16/491<br>(3.26)    | 14/1150<br>(1.22)   | 9/346<br>(2.60)   | 5/285<br>(1.75)   | 5/506<br>(0.99)   | 8/291<br>(2.75)   | 4/74<br>(5.41)    | 6/227<br>(2.64)   | 3/160<br>(1.88)   |
| H1  | 9/772<br>(1.17)     | 12/812<br>(1.48)    | 6/449<br>(1.34)     | 1/375<br>(0.27)     | 8/1116<br>(0.72)    | 1/492<br>(0.20)   | 1/176<br>(0.57)   | 1/132<br>(0.76)   | 2/180<br>(1.11)   | 3/180<br>(1.67)   | N/A               | N/A               |
| H2  | 21/2982<br>(0.70)   | 26/2083<br>(1.25)   | 19/3520<br>(0.54)   | 16/1101<br>(1.45)   | 11/1143<br>(0.96)   | 10/496<br>(2.02)  | 5/719<br>(0.70)   | 4/147<br>(2.72)   | 3/479<br>(0.63)   | 2/80<br>(2.50)    | 1/122<br>(0.82)   | 0/136<br>(0.00)   |
| I1  | 14/1462<br>(0.96)   | 7/1244<br>(0.56)    | 8/1609<br>(0.50)    | 10/1159<br>(0.86)   | 6/884<br>(0.68)     | 3/202<br>(1.49)   | 2/193<br>(1.04)   | 1/209<br>(0.48)   | 4/399<br>(1.00)   | 2/341<br>(0.59)   | 0/140<br>(0.00)   | 1/87<br>(1.15)    |
| I2  | 3/732<br>(0.41)     | 12/1085<br>(1.11)   | 8/594<br>(1.35)     | 6/462<br>(1.30)     | 2/472<br>(0.42)     | 2/37<br>(5.41)    | 0/108<br>(0.00)   | 0/72<br>(0.00)    | 2/340<br>(0.59)   | 3/158<br>(1.90)   | N/A               | 0/56<br>(0.00)    |
| J1  | 1/126<br>(0.79)     | 3/112<br>(2.68)     | 3/182<br>(1.65)     | 1/164<br>(0.61)     | 0/325<br>(0.00)     | N/A               | 2/380<br>(0.53)   | 2/170<br>(1.18)   | 1/10<br>(10.00)   | 3/92<br>(3.26)    | 1/90<br>(1.11)    | 2/123<br>(1.63)   |
| J2  | 27/2581<br>(1.05)   | 27/3538<br>(0.76)   | 16/3075<br>(0.52)   | 15/1439<br>(1.04)   | 9/616<br>(1.46)     | 15/845<br>(1.78)  | 9/559<br>(1.61)   | 4/525<br>(0.76)   | 4/810<br>(0.49)   | 0/98<br>(0.00)    | 0/148<br>(0.00)   | 2/277<br>(0.72)   |
| K   | 28/1985<br>(1.41)   | 29/2469<br>(1.17)   | 26/3616<br>(0.72)   | 21/1699<br>(1.24)   | 9/1134<br>(0.79)    | 4/774<br>(0.52)   | 3/636<br>(0.47)   | 1/458<br>(0.22)   | 2/403<br>(0.50)   | 0/292<br>(0.00)   | 2/80<br>(2.50)    | 0/80<br>(0.00)    |
| L   | 21/1604<br>(1.31)   | 18/1364<br>(1.32)   | 20/1651<br>(1.21)   | 22/1149<br>(1.91)   | 10/873<br>(1.15)    | 18/355<br>(5.07)  | 3/311<br>(0.96)   | 2/184<br>(1.09)   | 3/120<br>(2.50)   | 3/78<br>(3.85)    | 3/73<br>(4.11)    | 0/274<br>(0.00)   |
| M   | 72/3907<br>(1.84)   | 64/2728<br>(2.35)   | 57/3375<br>(1.69)   | 53/2649<br>(2.00)   | 41/2212<br>(1.85)   | 20/1330<br>(1.50) | 10/378<br>(2.65)  | 12/516<br>(2.33)  | 5/363<br>(1.38)   | 9/386<br>(2.33)   | 3/149<br>(2.01)   | 1/156<br>(0.64)   |
| ALL | 255/19873<br>(1.28) | 269/18892<br>(1.42) | 216/22880<br>(0.94) | 225/16988<br>(1.32) | 138/12197<br>(1.13) | 90/5202<br>(1.73) | 44/4068<br>(1.08) | 44/3580<br>(1.23) | 43/4296<br>(1.00) | 36/2497<br>(1.44) | 22/1509<br>(1.46) | 19/1975<br>(0.96) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-d. Gray fox take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12            | 2012-13             | 2013-14             | 2014-15            | 2015-16             | 2016-17            | 2017-18           | 2018-19           | 2019-20           | 2020-21           | 2021-22          | 2022-23           |
|-----|--------------------|---------------------|---------------------|--------------------|---------------------|--------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|
| A   | N/A                | N/A                 | 1/28<br>(3.57)      | N/A                | N/A                 | 2/532<br>(0.38)    | N/A               | 2/168<br>(1.19)   | N/A               | N/A               | N/A              | 1/30<br>(3.33)    |
| B   | N/A                | N/A                 | N/A                 | N/A                | N/A                 | 2/630<br>(0.32)    | N/A               | N/A               | N/A               | N/A               | 0/670<br>(0.00)  | N/A               |
| C1  | 5/198<br>(2.53)    | 1/32<br>(3.13)      | 5/324<br>(1.54)     | N/A                | 0/40<br>(0.00)      | 2/800<br>(0.25)    | 2/180<br>(1.11)   | N/A               | 2/1<br>(200)      | N/A               | N/A              | N/A               |
| C2  | 5/178<br>(2.81)    | 1/80<br>(1.25)      | 11/300<br>(3.67)    | N/A                | 2/200<br>(1.00)     | 2/800<br>(0.25)    | 3/960<br>(0.31)   | N/A               | N/A               | N/A               | N/A              | N/A               |
| D1  | N/A                | 1/37<br>(2.70)      | N/A                 | 2/36<br>(5.56)     | N/A                 | N/A                | N/A               | N/A               | N/A               | N/A               | 0/40<br>(0.00)   | N/A               |
| D2  | 11/286<br>(3.85)   | 1/360<br>(0.28)     | 17/719<br>(2.36)    | 0/57<br>(0.00)     | 1/41<br>(2.44)      | 2/248<br>(0.81)    | 3/196<br>(1.53)   | 3/222<br>(1.35)   | N/A               | N/A               | N/A              | 4/492<br>(0.81)   |
| E   | 3/40<br>(7.50)     | 1/4<br>(25.00)      | 3/474<br>(0.63)     | 2/32<br>(6.25)     | 2/42<br>(4.76)      | 1/8<br>(12.50)     | 2/28<br>(7.14)    | 2/18<br>(11.11)   | 1/18<br>(5.56)    | 2/388<br>(0.52)   | 1/6<br>(16.67)   | 7/7224<br>(0.10)  |
| F   | N/A                | 1/12<br>(8.33)      | 2/29<br>(6.90)      | 1/2<br>(50.00)     | 2/15<br>(13.33)     | 3/40<br>(7.50)     | 7/52<br>(13.46)   | 2/56<br>(3.57)    | 3/126<br>(2.38)   | N/A               | 2/120<br>(1.67)  | 4/150<br>(2.67)   |
| G   | 9/698<br>(1.29)    | 14/1302<br>(1.08)   | 18/1760<br>(1.02)   | 14/2597<br>(0.54)  | 5/714<br>(0.70)     | 2/252<br>(0.79)    | 3/233<br>(1.29)   | 2/312<br>(0.64)   | N/A               | N/A               | N/A              | 4/372<br>(1.08)   |
| H1  | 8/522<br>(1.53)    | 10/491<br>(2.04)    | 7/1066<br>(0.66)    | 3/760<br>(0.39)    | 2/735<br>(0.27)     | 1/28<br>(3.57)     | N/A               | N/A               | N/A               | 2/84<br>(2.38)    | 1/4<br>(25.00)   | 1/30<br>(3.33)    |
| H2  | 5/466<br>(1.07)    | 16/481<br>(3.33)    | 6/108<br>(5.56)     | 6/722<br>(0.83)    | 10/1668<br>(0.60)   | 3/470<br>(0.64)    | 4/98<br>(4.08)    | N/A               | 1/42<br>(2.38)    | N/A               | 2/370<br>(0.54)  | N/A               |
| I1  | 3/690<br>(0.43)    | 3/178<br>(1.69)     | 18/1802<br>(1.00)   | 6/308<br>(1.95)    | 17/1312<br>(1.30)   | 5/1180<br>(0.42)   | 11/1120<br>(0.98) | 2/102<br>(1.96)   | 8/3600<br>(0.22)  | N/A               | N/A              | 4/142<br>(2.82)   |
| I2  | 4/390<br>(1.03)    | 14/1243<br>(1.13)   | 7/609<br>(1.15)     | 0/150<br>(0.00)    | 10/1340<br>(0.75)   | 3/273<br>(1.10)    | 3/112<br>(2.68)   | 6/350<br>(1.71)   | 1/290<br>(0.34)   | 0/60<br>(0.00)    | 1/12<br>(8.33)   | N/A               |
| J1  | 2/156<br>(1.28)    | 6/105<br>(5.71)     | 4/214<br>(1.87)     | 2/232<br>(0.86)    | 5/622<br>(0.80)     | 3/482<br>(0.62)    | 3/245<br>(1.22)   | N/A               | 3/28<br>(10.71)   | 1/10<br>(10.00)   | 1/182<br>(0.55)  | 3/144<br>(2.08)   |
| J2  | 17/1052<br>(1.62)  | 39/3840<br>(1.02)   | 20/2518<br>(0.79)   | 8/2316<br>(0.35)   | 4/422<br>(0.95)     | 5/1233<br>(0.41)   | 5/1198<br>(0.42)  | 1/10<br>(10.00)   | 8/680<br>(1.18)   | 6/71<br>(8.45)    | 0/160<br>(0.00)  | N/A               |
| K   | 11/1340<br>(0.82)  | 9/1536<br>(0.59)    | 11/1730<br>(0.64)   | 11/983<br>(1.12)   | 13/3488<br>(0.37)   | 4/1340<br>(0.30)   | 4/898<br>(0.45)   | 3/225<br>(1.33)   | 1/360<br>(0.28)   | 1/84<br>(1.19)    | 1/180<br>(0.56)  | 3/168<br>(1.79)   |
| L   | 13/872<br>(1.49)   | 10/1485<br>(0.67)   | 14/3072<br>(0.46)   | 4/1018<br>(0.39)   | 4/512<br>(0.78)     | 11/1248<br>(0.88)  | 6/82<br>(7.32)    | 3/36<br>(8.33)    | 1/5<br>(20.00)    | N/A               | N/A              | N/A               |
| M   | 18/1652<br>(1.09)  | 23/2867<br>(0.80)   | 28/3958<br>(0.71)   | 17/1784<br>(0.95)  | 24/1970<br>(1.22)   | 4/437<br>(0.92)    | 0/80<br>(0.00)    | N/A               | 1/3780<br>(0.03)  | 3/380<br>(0.79)   | 0/118<br>(0.00)  | 0/360<br>(0.00)   |
| ALL | 114/8540<br>(1.33) | 150/14053<br>(1.07) | 172/18711<br>(0.92) | 76/10997<br>(0.69) | 101/13121<br>(0.77) | 55/10001<br>(0.55) | 56/5482<br>(1.02) | 26/1499<br>(1.73) | 30/8930<br>(0.34) | 15/1077<br>(1.39) | 9/1862<br>(0.48) | 31/9112<br>(0.34) |

**Table 4-c. Mink take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12             | 2012-13             | 2013-14             | 2014-15             | 2015-16             | 2016-17            | 2017-18           | 2018-19           | 2019-20           | 2020-21           | 2021-22           | 2022-23           |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A   | 12/314<br>(3.82)    | 20/548<br>(3.65)    | 12/983<br>(1.22)    | 7/117<br>(5.98)     | 16/532<br>(3.01)    | 5/240<br>(2.08)    | N/A               | N/A               | N/A               | 1/1<br>(100)      | 1/56<br>(1.79)    | 0/6<br>(0.00)     |
| B   | N/A                 | 11/200<br>(5.50)    | 6/248<br>(2.42)     | 18/1352<br>(1.33)   | 5/473<br>(1.06)     | 14/106<br>(13.21)  | 6/136<br>(4.41)   | 11/300<br>(3.67)  | 1/98<br>(1.02)    | 4/206<br>(1.94)   | 1/12<br>(8.33)    | N/A               |
| C1  | 3/60<br>(5.00)      | 13/186<br>(6.99)    | 8/152<br>(5.26)     | 13/145<br>(8.97)    | 4/182<br>(2.20)     | 0/8<br>(0.00)      | 3/314<br>(0.96)   | N/A               | 1/32<br>(3.13)    | 4/78<br>(5.13)    | 3/8<br>(37.50)    | N/A               |
| C2  | 16/646<br>(2.48)    | 8/300<br>(2.67)     | 4/219<br>(1.83)     | 6/518<br>(1.16)     | 12/624<br>(1.92)    | 3/18<br>(16.67)    | N/A               | 2/40<br>(5.00)    | N/A               | N/A               | 0/28<br>(0.00)    | N/A               |
| D1  | 6/158<br>(3.80)     | 1/12<br>(8.33)      | 1/30<br>(3.33)      | 24/583<br>(4.12)    | 3/8<br>(37.50)      | 7/704<br>(0.99)    | 18/1080<br>(1.67) | 3/178<br>(1.69)   | 1/20<br>(5.00)    | 34/2700<br>(1.26) | 0/55<br>(0.00)    | N/A               |
| D2  | 17/410<br>(4.15)    | 9/151<br>(5.96)     | 32/9365<br>(0.34)   | 67/2836<br>(2.36)   | 20/1669<br>(1.20)   | 14/538<br>(2.60)   | 3/165<br>(1.82)   | 0/36<br>(0.00)    | 5/150<br>(3.33)   | 3/19<br>(15.79)   | 5/144<br>(3.47)   | 4/159<br>(2.52)   |
| E   | N/A                 | 1/52<br>(1.92)      | N/A                 | 1/144<br>(0.69)     | 1/170<br>(0.59)     | 2/14<br>(14.29)    | 3/20<br>(15.00)   | 7/808<br>(0.87)   | 1/6<br>(16.67)    | N/A               | 2/12<br>(16.67)   | 1/15<br>(6.67)    |
| F   | 13/508<br>(2.56)    | 24/1232<br>(1.95)   | 28/1650<br>(1.70)   | 8/444<br>(1.80)     | 5/352<br>(1.42)     | 9/207<br>(4.35)    | 15/139<br>(10.79) | 10/145<br>(6.90)  | 3/303<br>(0.99)   | 0/12<br>(0.00)    | 6/176<br>(3.41)   | 16/433<br>(3.70)  |
| G   | 25/1048<br>(2.39)   | 57/8478<br>(0.67)   | 27/1769<br>(1.53)   | 19/542<br>(3.51)    | 7/495<br>(1.41)     | 4/74<br>(5.41)     | 4/171<br>(2.34)   | 2/374<br>(0.53)   | 0/6<br>(0.00)     | N/A               | 5/151<br>(3.31)   | 4/101<br>(3.96)   |
| H1  | 8/392<br>(2.04)     | 28/869<br>(3.22)    | 4/862<br>(0.46)     | 7/224<br>(3.13)     | 1/140<br>(0.71)     | 1/60<br>(1.67)     | N/A               | 1/14<br>(7.14)    | N/A               | 1/208<br>(0.48)   | 1/7<br>(14.29)    | 1/70<br>(1.43)    |
| H2  | 13/1082<br>(1.20)   | 28/1536<br>(1.82)   | 19/1019<br>(1.86)   | 3/498<br>(0.60)     | 19/351<br>(5.41)    | 4/325<br>(1.23)    | N/A               | 2/11<br>(18.18)   | N/A               | N/A               | 2/364<br>(0.55)   | 0/270<br>(0.00)   |
| I1  | 20/911<br>(2.20)    | 17/466<br>(3.65)    | 22/1344<br>(1.64)   | 10/534<br>(1.87)    | 8/439<br>(1.82)     | 12/1310<br>(0.92)  | 4/296<br>(1.35)   | 0/3<br>(0.00)     | 1/398<br>(0.25)   | 6/336<br>(1.79)   | 0/56<br>(0.00)    | 0/35<br>(0.00)    |
| I2  | 3/256<br>(1.17)     | 18/1151<br>(1.56)   | 5/684<br>(0.73)     | 3/212<br>(1.42)     | 3/526<br>(0.57)     | 5/381<br>(1.31)    | 1/182<br>(0.55)   | 1/91<br>(1.10)    | 5/390<br>(1.28)   | 2/255<br>(0.78)   | N/A               | N/A               |
| J1  | 11/530<br>(2.08)    | 19/635<br>(2.99)    | 11/394<br>(2.79)    | 16/1124<br>(1.42)   | 14/970<br>(1.44)    | 5/362<br>(1.38)    | 8/244<br>(3.28)   | 11/248<br>(4.44)  | 2/362<br>(0.55)   | 5/193<br>(2.59)   | 8/280<br>(2.86)   | 4/279<br>(1.43)   |
| J2  | 43/2691<br>(1.60)   | 49/3237<br>(1.51)   | 41/2809<br>(1.46)   | 20/2335<br>(0.86)   | 26/1662<br>(1.56)   | 16/1730<br>(0.92)  | 9/177<br>(5.08)   | 12/194<br>(6.19)  | 5/595<br>(0.84)   | 6/280<br>(2.14)   | 1/189<br>(0.53)   | N/A               |
| K   | 26/1471<br>(1.77)   | 38/4247<br>(0.89)   | 21/1339<br>(1.57)   | 22/795<br>(2.77)    | 17/783<br>(2.17)    | 4/69<br>(5.80)     | 11/1932<br>(0.57) | 5/1114<br>(0.45)  | 4/251<br>(1.59)   | 0/86<br>(0.00)    | 3/583<br>(0.51)   | 3/161<br>(1.86)   |
| L   | 3/162<br>(1.85)     | 20/1422<br>(1.41)   | 26/1472<br>(1.77)   | 4/93<br>(4.30)      | 5/1552<br>(0.32)    | 1/56<br>(1.79)     | 1/88<br>(1.14)    | N/A               | 0/111<br>(0.00)   | 0/25<br>(0.00)    | N/A               | N/A               |
| M   | 28/1742<br>(1.61)   | 24/2159<br>(1.11)   | 14/1523<br>(0.92)   | 9/993<br>(0.91)     | 4/657<br>(0.61)     | 4/821<br>(0.49)    | 1/34<br>(2.94)    | 8/98<br>(8.16)    | 4/162<br>(2.47)   | 2/145<br>(1.38)   | 2/556<br>(0.36)   | 3/830<br>(0.36)   |
| ALL | 247/12381<br>(1.99) | 385/26881<br>(1.43) | 281/25862<br>(1.09) | 257/13489<br>(1.91) | 170/11585<br>(1.47) | 110/7023<br>(1.57) | 87/4978<br>(1.75) | 75/3654<br>(2.05) | 33/2884<br>(1.14) | 68/4544<br>(1.50) | 40/2677<br>(1.49) | 36/2359<br>(1.53) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-d. Muskrat take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12              | 2012-13              | 2013-14              | 2014-15              | 2015-16              | 2016-17            | 2017-18            | 2018-19            | 2019-20            | 2020-21             | 2021-22            | 2022-23            |
|-----|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
| A   | 53/456<br>(11.62)    | 116/1436<br>(8.08)   | 187/1505<br>(12.43)  | 158/4956<br>(3.19)   | 298/4410<br>(6.76)   | 21/250<br>(8.40)   | 52/324<br>(16.05)  | 77/677<br>(11.37)  | 7/8<br>(87.50)     | 38/240<br>(15.83)   | 8/60<br>(13.33)    | 3/5<br>(60.00)     |
| B   | 11/313<br>(3.51)     | 77/840<br>(9.17)     | 41/311<br>(13.18)    | 175/2425<br>(7.22)   | 78/280<br>(27.86)    | 58/312<br>(18.59)  | 5/84<br>(5.95)     | 7/98<br>(7.14)     | N/A                | 13/200<br>(6.50)    | 0/6<br>(0.00)      | N/A                |
| C1  | N/A                  | 14/170<br>(8.24)     | 15/144<br>(10.42)    | N/A                  | 65/561<br>(11.59)    | N/A                | 11/308<br>(3.57)   | N/A                | N/A                | 4/28<br>(14.29)     | 1/6<br>(16.67)     | N/A                |
| C2  | 97/3712<br>(2.61)    | 101/1497<br>(6.75)   | 82/1141<br>(7.19)    | 59/914<br>(6.46)     | 181/1312<br>(13.80)  | 0/42<br>(0.00)     | 20/287<br>(6.97)   | N/A                | 15/54<br>(27.78)   | 40/140<br>(28.57)   | 7/18<br>(38.89)    | 3/120<br>(2.50)    |
| D1  | 79/449<br>(17.59)    | 43/348<br>(12.36)    | 142/1042<br>(13.63)  | 54/1215<br>(4.44)    | 6/20<br>(30.00)      | 96/1294<br>(7.42)  | 112/1665<br>(6.73) | 4/169<br>(2.37)    | 19/270<br>(7.04)   | 11/22<br>(50.00)    | 2/48<br>(4.17)     | 1/90<br>(1.11)     |
| D2  | 100/535<br>(18.69)   | 43/425<br>(10.12)    | 91/5703<br>(1.60)    | 166/1701<br>(9.76)   | 140/2673<br>(5.24)   | 74/680<br>(10.88)  | 28/80<br>(35.00)   | 32/164<br>(19.51)  | 20/108<br>(18.52)  | 6/82<br>(7.32)      | 41/306<br>(13.40)  | 26/153<br>(16.99)  |
| E   | 1/15<br>(6.67)       | 0/100<br>(0.00)      | N/A                  | 0/40<br>(0.00)       | 2/16<br>(12.50)      | 3/13<br>(23.08)    | N/A                | 29/412<br>(7.04)   | 2/18<br>(11.11)    | 3/8<br>(37.50)      | 2/44<br>(4.55)     | 2/18<br>(11.11)    |
| F   | 10/266<br>(3.76)     | 4/484<br>(0.83)      | 21/778<br>(2.70)     | 7/208<br>(3.37)      | 10/146<br>(6.85)     | 7/28<br>(25.00)    | 19/93<br>(20.43)   | 27/66<br>(40.91)   | 1/44<br>(2.27)     | 5/16<br>(31.25)     | 6/30<br>(20.00)    | 10/48<br>(20.83)   |
| G   | 118/1128<br>(10.46)  | 166/8009<br>(2.07)   | 134/3015<br>(4.44)   | 91/1104<br>(8.24)    | 67/1541<br>(4.35)    | 32/164<br>(19.51)  | 30/90<br>(33.33)   | 7/15<br>(46.67)    | 12/83<br>(14.46)   | 13/50<br>(26.00)    | 34/93<br>(36.56)   | 30/116<br>(25.86)  |
| H1  | 45/954<br>(4.72)     | 78/1523<br>(5.12)    | 22/848<br>(2.59)     | 10/322<br>(3.11)     | 24/717<br>(3.35)     | 18/240<br>(7.50)   | 5/22<br>(22.73)    | 2/7<br>(28.57)     | 1/180<br>(0.56)    | N/A                 | 13/185<br>(7.03)   | 4/72<br>(5.56)     |
| H2  | 79/1984<br>(3.98)    | 127/2596<br>(4.89)   | 145/3041<br>(4.77)   | 48/4418<br>(1.09)    | 26/412<br>(6.31)     | 15/490<br>(3.06)   | 8/210<br>(3.81)    | 4/42<br>(9.52)     | 2/38<br>(5.26)     | 41/162<br>(25.31)   | 13/388<br>(3.35)   | 5/552<br>(0.91)    |
| I1  | 73/868<br>(8.41)     | 60/606<br>(9.90)     | 76/2066<br>(3.68)    | 61/1987<br>(3.07)    | 66/1414<br>(4.67)    | 6/635<br>(0.94)    | 6/124<br>(4.84)    | 4/109<br>(3.67)    | 24/696<br>(3.45)   | 9/186<br>(4.84)     | 4/58<br>(6.90)     | 3/220<br>(1.36)    |
| I2  | 37/941<br>(3.93)     | 13/469<br>(2.77)     | 38/1950<br>(1.95)    | 8/186<br>(4.30)      | 51/864<br>(5.90)     | 16/382<br>(4.19)   | 31/190<br>(16.32)  | 15/448<br>(3.35)   | 24/601<br>(3.99)   | 30/426<br>(7.04)    | 3/100<br>(3.00)    | N/A                |
| J1  | 54/815<br>(6.63)     | 87/949<br>(9.17)     | 36/324<br>(11.11)    | 22/414<br>(5.31)     | 54/1088<br>(4.96)    | 13/292<br>(4.45)   | 17/260<br>(6.54)   | 14/36<br>(38.89)   | 13/99<br>(13.13)   | 22/168<br>(13.10)   | 16/225<br>(7.11)   | 14/515<br>(2.72)   |
| J2  | 260/5590<br>(4.65)   | 220/4363<br>(5.04)   | 179/3194<br>(5.60)   | 123/2991<br>(4.11)   | 103/3402<br>(3.03)   | 63/2408<br>(2.62)  | 59/1285<br>(4.59)  | 95/860<br>(11.05)  | 109/1940<br>(5.62) | 72/943<br>(7.64)    | 40/346<br>(11.56)  | 32/334<br>(9.58)   |
| K   | 158/2892<br>(5.46)   | 94/3413<br>(2.75)    | 58/1622<br>(3.58)    | 72/2039<br>(3.53)    | 55/1496<br>(3.68)    | 16/595<br>(2.69)   | 34/1909<br>(1.78)  | 42/2314<br>(1.82)  | 22/150<br>(14.67)  | 18/239<br>(7.53)    | 27/939<br>(2.88)   | 8/116<br>(6.90)    |
| L   | 102/2254<br>(4.53)   | 100/1418<br>(7.05)   | 149/1961<br>(7.60)   | 105/1224<br>(8.58)   | 35/2158<br>(1.62)    | 39/507<br>(7.69)   | 31/238<br>(13.03)  | 88/944<br>(9.32)   | 41/678<br>(6.05)   | 22/291<br>(7.56)    | 10/59<br>(16.95)   | 23/354<br>(6.50)   |
| M   | 421/6952<br>(6.06)   | 457/8464<br>(5.40)   | 242/4061<br>(5.96)   | 224/3310<br>(6.77)   | 171/4446<br>(3.85)   | 70/1264<br>(5.54)  | 32/487<br>(6.57)   | 110/1850<br>(5.95) | 51/1212<br>(4.21)  | 55/746<br>(7.37)    | 106/2287<br>(4.63) | 43/1272<br>(3.38)  |
| ALL | 1698/30124<br>(5.64) | 1800/37110<br>(4.85) | 1658/32706<br>(5.07) | 1383/29454<br>(4.70) | 1432/26956<br>(5.31) | 547/9596<br>(5.70) | 500/7656<br>(6.53) | 557/8211<br>(6.78) | 363/6179<br>(5.87) | 402/3947<br>(10.18) | 333/5198<br>(6.41) | 207/3985<br>(5.19) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-g. Otter take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12             | 2012-13             | 2013-14             | 2014-15            | 2015-16             | 2016-17            | 2017-18           | 2018-19           | 2019-20            | 2020-21           | 2021-22            | 2022-23           |
|-----|---------------------|---------------------|---------------------|--------------------|---------------------|--------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
| A   | 4/97<br>(4.12)      | 3/184<br>(1.63)     | 2/65<br>(3.08)      | 3/48<br>(6.25)     | 2/21<br>(9.52)      | 3/32<br>(9.38)     | 3/27<br>(11.11)   | 2/57<br>(3.51)    | 1/6<br>(16.67)     | 5/336<br>(1.49)   | 4/136<br>(2.94)    | 4/152<br>(2.63)   |
| B   | N/A                 | 2/24<br>(8.33)      | 3/120<br>(2.50)     | 4/264<br>(1.52)    | 5/384<br>(1.30)     | 8/239<br>(3.35)    | 6/450<br>(1.33)   | 3/28<br>(10.71)   | 3/90<br>(3.33)     | 3/336<br>(0.89)   | 3/62<br>(4.84)     | 1/6<br>(16.67)    |
| C1  | N/A                 | N/A                 | N/A                 | 1/9<br>(11.11)     | 4/150<br>(2.67)     | 2/40<br>(5.00)     | 2/188<br>(1.06)   | N/A               | 1/14<br>(7.14)     | 2/5<br>(40.00)    | 0/8<br>(0.00)      | N/A               |
| C2  | 12/500<br>(2.40)    | 6/216<br>(2.78)     | 10/205<br>(4.88)    | N/A                | 5/537<br>(0.93)     | N/A                | 2/15<br>(13.33)   | N/A               | N/A                | N/A               | N/A                | N/A               |
| D1  | 2/218<br>(0.92)     | 1/8<br>(12.50)      | 1/4<br>(25.00)      | 13/1597<br>(0.81)  | 1/4<br>(25.00)      | 3/30<br>(10.00)    | 3/1090<br>(0.28)  | 1/14<br>(7.14)    | 2/40<br>(5.00)     | 1/84<br>(1.19)    | 1/18<br>(5.56)     | 8/240<br>(3.33)   |
| D2  | 9/134<br>(6.72)     | 1/14<br>(7.14)      | 8/742<br>(1.08)     | 6/253<br>(2.37)    | 15/470<br>(3.19)    | 6/480<br>(1.25)    | 4/90<br>(4.44)    | 4/99<br>(4.04)    | 9/118<br>(7.63)    | 2/109<br>(1.83)   | 6/35<br>(17.14)    | 6/113<br>(5.31)   |
| E   | 1/12<br>(8.33)      | 5/20<br>(25.00)     | 3/14<br>(21.43)     | 1/9<br>(11.11)     | 1/9<br>(11.11)      | 2/12<br>(16.67)    | 2/6<br>(33.33)    | N/A               | N/A                | N/A               | 1/3<br>(33.33)     | 1/14<br>(7.14)    |
| F   | 4/279<br>(1.43)     | 5/315<br>(1.59)     | 4/322<br>(1.24)     | 2/236<br>(0.85)    | 2/110<br>(1.82)     | 5/90<br>(5.56)     | 5/70<br>(7.14)    | 5/94<br>(5.32)    | 4/78<br>(5.13)     | 0/5<br>(0.00)     | 6/234<br>(2.56)    | 9/170<br>(5.29)   |
| G   | 21/746<br>(2.82)    | 20/7536<br>(0.27)   | 12/940<br>(1.28)    | 12/452<br>(2.65)   | 3/222<br>(1.35)     | 7/130<br>(5.38)    | 10/195<br>(5.13)  | 1/32<br>(3.13)    | 3/32<br>(9.38)     | 2/14<br>(14.29)   | 9/188<br>(4.79)    | 7/98<br>(7.14)    |
| H1  | 6/214<br>(2.80)     | 1/1<br>(100)        | 4/300<br>(1.33)     | 3/203<br>(1.48)    | 3/955<br>(0.31)     | 4/140<br>(2.86)    | 1/5<br>(20.00)    | N/A               | N/A                | 2/260<br>(0.77)   | 4/367<br>(1.09)    | 1/8<br>(12.50)    |
| H2  | 38/1308<br>(2.91)   | 28/1340<br>(2.09)   | 18/1007<br>(1.79)   | 20/483<br>(4.14)   | 9/484<br>(1.86)     | 8/426<br>(1.88)    | 1/28<br>(3.57)    | 4/204<br>(1.96)   | 3/2221<br>(0.14)   | 2/70<br>(2.86)    | 11/282<br>(3.90)   | 11/732<br>(1.50)  |
| I1  | 15/788<br>(1.90)    | 13/1933<br>(0.67)   | 9/537<br>(1.68)     | 8/233<br>(3.43)    | 8/407<br>(1.97)     | 11/381<br>(2.89)   | 3/27<br>(11.11)   | 2/56<br>(3.57)    | 2/313<br>(0.64)    | 4/50<br>(8.00)    | 4/132<br>(3.03)    | 6/239<br>(2.51)   |
| I2  | 7/322<br>(2.17)     | 14/261<br>(5.36)    | 10/1054<br>(0.95)   | 5/440<br>(1.14)    | 2/500<br>(0.40)     | 0/17<br>(0.00)     | 2/107<br>(1.87)   | 9/571<br>(1.58)   | 7/340<br>(2.06)    | 6/124<br>(4.84)   | 2/100<br>(2.00)    | N/A               |
| J1  | 11/659<br>(1.67)    | 16/477<br>(3.35)    | 10/411<br>(2.43)    | 3/372<br>(0.81)    | 10/491<br>(2.04)    | 16/291<br>(5.50)   | 6/416<br>(1.44)   | 13/328<br>(3.96)  | 6/183<br>(3.28)    | 4/80<br>(5.00)    | 2/28<br>(7.14)     | 7/203<br>(3.45)   |
| J2  | 71/5662<br>(1.25)   | 40/4320<br>(0.93)   | 26/2313<br>(1.12)   | 25/1704<br>(1.47)  | 19/3247<br>(0.59)   | 18/809<br>(2.22)   | 14/1045<br>(1.34) | 28/650<br>(4.31)  | 33/1371<br>(2.41)  | 16/463<br>(3.46)  | 9/190<br>(4.74)    | 7/284<br>(2.46)   |
| K   | 48/6175<br>(0.78)   | 39/1418<br>(2.75)   | 38/1944<br>(1.95)   | 25/1233<br>(2.03)  | 25/1703<br>(1.47)   | 12/972<br>(1.23)   | 8/766<br>(1.04)   | 6/170<br>(3.53)   | 14/470<br>(2.98)   | 11/300<br>(3.67)  | 17/912<br>(1.86)   | 8/208<br>(3.85)   |
| L   | 35/1325<br>(2.64)   | 25/1015<br>(2.46)   | 32/1628<br>(1.97)   | 19/529<br>(3.59)   | 17/1013<br>(1.68)   | 22/538<br>(4.09)   | 6/138<br>(4.35)   | 10/563<br>(1.78)  | 21/520<br>(4.04)   | 16/479<br>(3.34)  | 11/27<br>(40.74)   | 6/128<br>(4.69)   |
| M   | 60/3753<br>(1.60)   | 66/3549<br>(1.86)   | 51/3925<br>(1.30)   | 16/402<br>(3.98)   | 32/428<br>(7.48)    | 19/652<br>(2.91)   | 4/293<br>(1.37)   | 7/151<br>(4.64)   | 10/348<br>(2.87)   | 22/474<br>(4.64)  | 21/1579<br>(1.33)  | 8/827<br>(0.97)   |
| ALL | 344/22192<br>(1.55) | 285/22631<br>(1.26) | 241/15531<br>(1.55) | 166/8467<br>(1.96) | 163/11135<br>(1.46) | 146/5279<br>(2.77) | 82/4956<br>(1.65) | 95/3017<br>(3.15) | 119/6144<br>(1.94) | 98/3189<br>(3.07) | 111/4301<br>(2.58) | 90/3422<br>(2.63) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-h. Raccoon take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12             | 2012-13             | 2013-14             | 2014-15             | 2015-16             | 2016-17             | 2017-18            | 2018-19            | 2019-20             | 2020-21            | 2021-22            | 2022-23            |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|
| A   | 0/14<br>(0.00)      | 32/635<br>(5.04)    | 43/1300<br>(3.31)   | 27/581<br>(4.65)    | 42/250<br>(16.80)   | 16/1426<br>(1.12)   | 12/143<br>(8.39)   | 10/212<br>(4.72)   | 2/70<br>(2.86)      | 3/14<br>(21.43)    | 7/83<br>(8.43)     | 12/142<br>(8.45)   |
| B   | 2/30<br>(6.67)      | 37/1021<br>(3.62)   | 38/1085<br>(3.50)   | 50/1876<br>(2.67)   | 3/668<br>(0.45)     | 39/1147<br>(3.40)   | 33/739<br>(4.47)   | 34/1457<br>(2.33)  | 11/40<br>(27.50)    | 7/76<br>(9.21)     | 20/1143<br>(1.75)  | 10/304<br>(3.29)   |
| C1  | 2/10<br>(20.00)     | 2/28<br>(7.14)      | 1/4<br>(25.00)      | 5/82<br>(6.10)      | 3/143<br>(2.10)     | 6/376<br>(1.60)     | 2/3<br>(66.67)     | 2/2<br>(100)       | N/A                 | 3/8<br>(37.50)     | 6/10<br>(60.00)    | 2/120<br>(1.67)    |
| C2  | 14/358<br>(3.91)    | 10/434<br>(2.30)    | 18/232<br>(7.76)    | 6/384<br>(1.56)     | 9/285<br>(3.16)     | 17/916<br>(1.86)    | 11/51<br>(21.57)   | 12/35<br>(34.29)   | 3/5<br>(60.00)      | 8/15<br>(53.33)    | 7/17<br>(41.18)    | N/A                |
| D1  | 4/216<br>(1.85)     | N/A                 | 2/14<br>(14.29)     | N/A                 | N/A                 | 4/120<br>(3.33)     | 1/5<br>(20.00)     | 2/11<br>(18.18)    | 2/2<br>(100)        | 1/42<br>(2.38)     | 9/82<br>(10.98)    | 21/172<br>(12.21)  |
| D2  | 15/233<br>(6.44)    | 8/598<br>(1.34)     | 28/309<br>(9.06)    | 23/1805<br>(1.27)   | 40/121<br>(33.06)   | 14/399<br>(3.51)    | 5/137<br>(3.65)    | 2/6<br>(33.33)     | 9/71<br>(12.68)     | 5/14<br>(35.71)    | 10/315<br>(3.17)   | 20/526<br>(3.80)   |
| E   | N/A                 | 7/204<br>(3.43)     | N/A                 | N/A                 | 18/238<br>(7.56)    | N/A                 | 6/48<br>(12.50)    | 20/296<br>(6.76)   | 24/184<br>(13.04)   | 23/442<br>(5.20)   | 26/420<br>(6.19)   | 26/376<br>(6.91)   |
| F   | 6/125<br>(4.80)     | 12/415<br>(2.89)    | 17/524<br>(3.24)    | 10/194<br>(5.15)    | 0/3<br>(0.00)       | 4/46<br>(8.70)      | 17/120<br>(14.17)  | 7/68<br>(10.29)    | 1/576<br>(0.17)     | 7/828<br>(0.85)    | 8/242<br>(3.31)    | 7/99<br>(7.07)     |
| G   | 10/471<br>(2.12)    | 29/489<br>(5.93)    | 25/1285<br>(1.95)   | 22/263<br>(8.37)    | 23/1116<br>(2.06)   | 24/635<br>(3.78)    | 5/140<br>(3.57)    | 2/344<br>(0.58)    | 0/120<br>(0.00)     | 1/84<br>(1.19)     | 2/4<br>(50.00)     | 4/196<br>(2.04)    |
| H1  | 5/137<br>(3.65)     | 62/3778<br>(1.64)   | 17/1516<br>(1.12)   | 12/554<br>(2.17)    | 11/354<br>(3.11)    | 2/150<br>(1.33)     | 1/360<br>(0.28)    | 3/100<br>(3.00)    | 2/93<br>(2.15)      | 6/288<br>(2.08)    | 12/120<br>(10.00)  | 19/335<br>(5.67)   |
| H2  | 25/1095<br>(2.28)   | 45/1776<br>(2.53)   | 28/1236<br>(2.27)   | 35/1806<br>(1.94)   | 14/350<br>(4.00)    | 9/345<br>(2.61)     | 4/315<br>(1.27)    | 7/111<br>(6.31)    | 3/107<br>(2.80)     | 12/172<br>(6.98)   | 15/71<br>(21.13)   | 3/22<br>(13.64)    |
| I1  | 12/667<br>(1.80)    | 16/314<br>(5.10)    | 30/822<br>(3.65)    | 16/825<br>(1.94)    | 25/913<br>(2.74)    | 31/1242<br>(2.50)   | 17/271<br>(6.27)   | 10/40<br>(25.00)   | 13/814<br>(1.60)    | 8/465<br>(1.72)    | 4/78<br>(5.13)     | 7/55<br>(12.73)    |
| I2  | N/A                 | 27/653<br>(4.13)    | 16/805<br>(1.99)    | 4/251<br>(1.59)     | 9/560<br>(1.61)     | 4/471<br>(0.85)     | 1/20<br>(5.00)     | 7/99<br>(7.07)     | 7/401<br>(1.75)     | 2/146<br>(1.37)    | 5/204<br>(2.45)    | 3/180<br>(1.67)    |
| J1  | 3/389<br>(0.77)     | 19/143<br>(13.29)   | 19/108<br>(17.59)   | 18/301<br>(5.98)    | 17/573<br>(2.97)    | 10/434<br>(2.30)    | 10/735<br>(1.36)   | 15/301<br>(4.98)   | 9/470<br>(1.91)     | 5/186<br>(2.69)    | 8/842<br>(0.95)    | 6/203<br>(2.96)    |
| J2  | 94/2602<br>(3.61)   | 99/6338<br>(1.56)   | 53/4159<br>(1.27)   | 55/3833<br>(1.43)   | 59/1366<br>(4.32)   | 48/1993<br>(2.41)   | 39/1283<br>(3.04)  | 26/390<br>(6.67)   | 6/25<br>(24.00)     | 12/270<br>(4.44)   | 7/622<br>(1.13)    | 14/347<br>(4.03)   |
| K   | 34/1119<br>(3.04)   | 48/2402<br>(2.00)   | 54/2120<br>(2.55)   | 60/2657<br>(2.26)   | 66/2362<br>(2.79)   | 31/1478<br>(2.10)   | 11/589<br>(1.87)   | 26/3183<br>(0.82)  | 26/2943<br>(0.88)   | 24/1309<br>(1.83)  | 14/748<br>(1.87)   | 14/584<br>(2.40)   |
| L   | 22/692<br>(3.18)    | 24/1168<br>(2.05)   | 59/2252<br>(2.62)   | 36/1347<br>(2.67)   | 54/1102<br>(4.90)   | 40/1644<br>(2.43)   | 30/522<br>(5.75)   | 46/1234<br>(3.73)  | 30/2917<br>(1.03)   | 29/890<br>(3.26)   | 9/117<br>(7.69)    | 13/61<br>(21.31)   |
| M   | 99/3146<br>(3.15)   | 94/2501<br>(3.76)   | 129/3462<br>(3.73)  | 75/3888<br>(1.93)   | 41/2321<br>(1.77)   | 22/7045<br>(0.31)   | 25/773<br>(3.23)   | 18/551<br>(3.27)   | 29/1239<br>(2.34)   | 34/1596<br>(2.13)  | 22/1765<br>(1.25)  | 58/1197<br>(4.85)  |
| ALL | 347/11304<br>(3.07) | 571/22897<br>(2.49) | 577/21233<br>(2.72) | 454/20647<br>(2.20) | 434/12725<br>(3.41) | 321/19867<br>(1.62) | 230/6254<br>(3.68) | 249/8440<br>(2.95) | 177/10077<br>(1.76) | 190/6845<br>(2.78) | 191/6883<br>(2.77) | 239/4919<br>(4.86) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 4-i. Red fox take, trap nights of effort and catch per 100 trap nights given as take/effort with catch per 100 trap nights in parentheses**

| WMU | 2011-12             | 2012-13             | 2013-14             | 2014-15             | 2015-16             | 2016-17             | 2017-18            | 2018-19            | 2019-20             | 2020-21           | 2021-22           | 2022-23            |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|
| A   | 16/839<br>(1.91)    | 34/1157<br>(2.94)   | 29/1804<br>(1.61)   | 26/1413<br>(1.84)   | 20/1094<br>(1.83)   | 17/1595<br>(1.07)   | 9/420<br>(2.14)    | 26/857<br>(3.03)   | 49/417<br>(11.75)   | 8/330<br>(2.42)   | 3/150<br>(2.00)   | 1/30<br>(3.33)     |
| B   | 3/20<br>(15.00)     | 5/360<br>(1.39)     | 12/1260<br>(0.95)   | 12/1061<br>(1.13)   | 9/1059<br>(0.85)    | 8/1158<br>(0.69)    | 4/200<br>(2.00)    | 21/1689<br>(1.24)  | 14/1589<br>(0.88)   | 5/480<br>(1.04)   | 1/790<br>(0.13)   | 1/8<br>(12.50)     |
| C1  | 8/198<br>(4.04)     | 5/52<br>(9.62)      | 3/300<br>(1.00)     | N/A                 | 0/40<br>(0.00)      | 4/1600<br>(0.25)    | 1/6<br>(16.67)     | 1/1<br>(100)       | N/A                 | N/A               | N/A               | N/A                |
| C2  | 14/490<br>(2.86)    | 2/24<br>(8.33)      | 7/426<br>(1.64)     | 5/334<br>(1.50)     | 2/200<br>(1.00)     | 3/800<br>(0.38)     | 5/78<br>(6.41)     | N/A                | N/A                 | N/A               | N/A               | N/A                |
| D1  | 2/23<br>(8.70)      | 3/62<br>(4.84)      | 7/105<br>(6.67)     | 2/56<br>(3.57)      | 1/33<br>(3.03)      | 6/900<br>(0.67)     | 9/214<br>(4.21)    | N/A                | N/A                 | N/A               | 0/40<br>(0.00)    | N/A                |
| D2  | 25/234<br>(10.68)   | 7/766<br>(0.91)     | 10/590<br>(1.69)    | 10/261<br>(3.83)    | 8/370<br>(2.16)     | 5/224<br>(2.23)     | 9/196<br>(4.59)    | 2/147<br>(1.36)    | 11/346<br>(3.18)    | 1/30<br>(3.33)    | N/A               | 3/352<br>(0.85)    |
| E   | N/A                 | 3/22<br>(13.64)     | 1/70<br>(1.43)      | 4/131<br>(3.05)     | 1/9<br>(11.11)      | 4/33<br>(12.12)     | 5/44<br>(11.36)    | 2/35<br>(5.71)     | 7/787<br>(0.89)     | 5/409<br>(1.22)   | 3/49<br>(6.12)    | 12/7235<br>(0.17)  |
| F   | 0/28<br>(0.00)      | 1/80<br>(1.25)      | 3/72<br>(4.17)      | 3/50<br>(6.00)      | N/A                 | 0/10<br>(0.00)      | 11/54<br>(20.37)   | 6/20<br>(30.00)    | 14/433<br>(3.23)    | 9/402<br>(2.24)   | 6/277<br>(2.17)   | 7/194<br>(3.61)    |
| G   | 25/1142<br>(2.19)   | 30/1336<br>(2.25)   | 28/1474<br>(1.90)   | 21/1465<br>(1.43)   | 21/1526<br>(1.38)   | 6/228<br>(2.63)     | 1/348<br>(0.29)    | 8/340<br>(2.35)    | 6/220<br>(2.73)     | 2/168<br>(1.19)   | N/A               | 8/390<br>(2.05)    |
| H1  | 11/632<br>(1.74)    | 15/2720<br>(0.55)   | 5/806<br>(0.62)     | 6/1110<br>(0.54)    | 9/1159<br>(0.78)    | 0/126<br>(0.00)     | N/A                | 1/180<br>(0.56)    | N/A                 | N/A               | N/A               | 3/182<br>(1.65)    |
| H2  | 6/620<br>(0.97)     | 17/404<br>(4.21)    | 21/1156<br>(1.82)   | 4/183<br>(2.19)     | 9/2619<br>(0.34)    | 2/224<br>(0.89)     | 4/459<br>(0.87)    | 2/42<br>(4.76)     | 2/246<br>(0.81)     | N/A               | 4/94<br>(4.26)    | N/A                |
| I1  | 0/210<br>(0.00)     | 11/1050<br>(1.05)   | 11/1474<br>(0.75)   | 13/832<br>(1.56)    | 26/1747<br>(1.49)   | 8/1427<br>(0.56)    | 5/830<br>(0.60)    | 2/98<br>(2.04)     | 21/3828<br>(0.55)   | 8/602<br>(1.33)   | 2/90<br>(2.22)    | 3/258<br>(1.16)    |
| I2  | 1/120<br>(0.83)     | 33/1276<br>(2.59)   | 18/1304<br>(1.38)   | 4/264<br>(1.52)     | 7/1280<br>(0.55)    | 4/315<br>(1.27)     | N/A                | 22/860<br>(2.56)   | 7/994<br>(0.70)     | 3/170<br>(1.76)   | 5/21<br>(23.81)   | N/A                |
| J1  | 3/126<br>(2.38)     | 5/200<br>(2.50)     | 6/248<br>(2.42)     | 0/222<br>(0.00)     | 0/642<br>(0.00)     | 4/524<br>(0.76)     | 5/543<br>(0.92)    | 3/216<br>(1.39)    | 2/1145<br>(0.17)    | 8/616<br>(1.30)   | 4/412<br>(0.97)   | 4/225<br>(1.78)    |
| J2  | 23/1409<br>(1.63)   | 36/4548<br>(0.79)   | 20/2632<br>(0.76)   | 7/2768<br>(0.25)    | 13/1270<br>(1.02)   | 15/1688<br>(0.89)   | 23/1355<br>(1.70)  | 4/29<br>(13.79)    | 16/2545<br>(0.63)   | 8/538<br>(1.49)   | 0/188<br>(0.00)   | 12/410<br>(2.93)   |
| K   | 23/2458<br>(0.94)   | 28/2528<br>(1.11)   | 37/2598<br>(1.42)   | 20/1042<br>(1.92)   | 10/3152<br>(0.32)   | 11/1630<br>(0.67)   | 6/1772<br>(0.34)   | 14/761<br>(1.84)   | 8/497<br>(1.61)     | 11/560<br>(1.96)  | 2/268<br>(0.75)   | 3/124<br>(2.42)    |
| L   | 16/1238<br>(1.29)   | 20/2240<br>(0.89)   | 22/3421<br>(0.64)   | 8/1304<br>(0.61)    | 7/707<br>(0.99)     | 6/862<br>(0.70)     | 13/186<br>(6.99)   | 1/360<br>(0.28)    | 1/1<br>(100)        | 2/6<br>(33.33)    | 0/24<br>(0.00)    | 5/158<br>(3.16)    |
| M   | 31/1737<br>(1.78)   | 36/2896<br>(1.24)   | 17/3090<br>(0.55)   | 17/1943<br>(0.87)   | 24/2065<br>(1.16)   | 12/551<br>(2.18)    | 5/346<br>(1.45)    | 3/96<br>(3.13)     | 1/28<br>(3.57)      | 8/556<br>(1.44)   | 3/407<br>(0.74)   | 6/556<br>(1.08)    |
| ALL | 207/11524<br>(1.80) | 291/21721<br>(1.34) | 257/22830<br>(1.13) | 162/14439<br>(1.12) | 167/18972<br>(0.88) | 115/13895<br>(0.83) | 115/7051<br>(1.63) | 118/5731<br>(2.06) | 159/13076<br>(1.22) | 78/4867<br>(1.60) | 33/2810<br>(1.17) | 68/10122<br>(0.67) |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 5. Statewide catch per 100 trap nights of effort for the 2011 – 2022 NH trapping seasons**

| SPECIES  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| BEAVER   | 6.86    | 5.29    | 5.96    | 5.52    | 4.71    | 7.23    | 6.92    | 8.89    | 5.92    | 5.54    | 7.48    | 7.52    |
| COYOTE   | 2.4     | 1.46    | 1.21    | 1.21    | 1.06    | 1.41    | 1.52    | 2.17    | 1.14    | 1.79    | 1.98    | 1.54    |
| FISHER   | 1.28    | 1.42    | 0.94    | 1.32    | 1.13    | 1.73    | 1.08    | 1.23    | 1       | 1.44    | 1.46    | 0.96    |
| GRAY FOX | 1.33    | 1.07    | 0.92    | 0.69    | 0.77    | 0.55    | 1.02    | 1.73    | 0.34    | 1.39    | 0.48    | 0.34    |
| MINK     | 1.99    | 1.43    | 1.09    | 1.91    | 1.47    | 1.57    | 1.75    | 2.05    | 1.14    | 1.5     | 1.49    | 1.53    |
| MUSKRAT  | 5.64    | 4.85    | 5.07    | 4.7     | 5.31    | 5.7     | 6.53    | 6.78    | 5.87    | 10.18   | 6.41    | 5.19    |
| OTTER    | 1.55    | 1.26    | 1.55    | 1.96    | 1.46    | 2.77    | 1.65    | 3.15    | 1.94    | 3.07    | 2.58    | 2.63    |
| RACCOON  | 3.07    | 2.49    | 2.72    | 2.2     | 3.41    | 1.62    | 3.68    | 2.95    | 1.76    | 2.78    | 2.77    | 4.86    |
| RED FOX  | 1.8     | 1.34    | 1.13    | 1.12    | 0.88    | 0.83    | 1.63    | 2.06    | 1.22    | 1.6     | 1.17    | 0.67    |

Note: Only data with complete take, effort and WMU information have been included in this table.

\*These data may differ from that of previous reports due to late data submittals.

**Table 6. NH Pelt Value by Species for the 2022 Season**

|                 | PELT VALUE (\$) | NUMBER TRAPPED | TOTAL VALUE (\$) |
|-----------------|-----------------|----------------|------------------|
| <b>Beaver</b>   | \$27.20         | 1,175          | \$31,960         |
| <b>Otter</b>    | \$33.00         | 106            | \$3,498          |
| <b>Mink</b>     | \$8.00          | 41             | \$328            |
| <b>Muskrat</b>  | \$2.35          | 226            | \$531            |
| <b>Fisher</b>   | \$35.50         | 19             | \$675            |
| <b>Raccoon</b>  | \$9.50          | 261            | \$2,480          |
| <b>Red Fox</b>  | \$17.40         | 80             | \$1,392          |
| <b>Gray Fox</b> | \$21.50         | 42             | \$903            |
| <b>Coyote</b>   | \$15.00         | 203            | \$3,045          |
| <b>Weasel</b>   | \$2.25          | 22             | \$50             |
| <b>Skunk</b>    | \$17.00         | 76             | \$1,292          |
| <b>TOTAL</b>    |                 |                | \$46,153         |

\*Based on statewide NH trapper harvest data and average of in-state Maine fur auction prices paid per pelt.



**Table 7. 2021/2022 NH Furbearer Take by Trappers and Wildlife Control Operators**

| <b>Species</b>  | <b>By Trapper*</b> | <b>By WCO</b> | <b>Total</b> | <b>Percent by WCO</b> |
|-----------------|--------------------|---------------|--------------|-----------------------|
| <b>Beaver</b>   | 1303               | 1656          | 2959         | 55.96                 |
| <b>Coyote</b>   | 285                | 16            | 301          | 5.32                  |
| <b>Fisher</b>   | 23                 | 2             | 25           | 8                     |
| <b>Gray Fox</b> | 14                 | 7             | 21           | 33.33                 |
| <b>Mink</b>     | 42                 | 3             | 45           | 6.67                  |
| <b>Muskrat</b>  | 344                | 36            | 380          | 9.47                  |
| <b>Opossum</b>  | 27                 | 101           | 128          | 78.91                 |
| <b>Otter</b>    | 123                | 36            | 159          | 22.64                 |
| <b>Raccoon</b>  | 216                | 342           | 558          | 61.29                 |
| <b>Red Fox</b>  | 55                 | 9             | 64           | 14.06                 |
| <b>Skunk</b>    | 45                 | 465           | 510          | 91.18                 |
| <b>Weasel</b>   | 19                 | 6             | 25           | 24                    |

\*These data may differ from that of previous reports due to late data submittals.

## Performance Report

**State:** New Hampshire

**Grant:** F20AF11939

**Grant Type:** Survey and Inventory

**Grant Title:** NH – WILDLIFE RESEARCH AND MANAGEMENT (W-89-R-21)

**Period Covered:** July 1, 2022 to June 30, 2023

**Purpose/Target Name:** PROJECT 6 - FURBEARER RESEARCH AND MANAGEMENT

**Objective Name:** JOB 2 - NON-HARVEST MORTALITY DATA COLLECTION, ENTRY AND ANALYSIS

**Objective Statement:** To collect for management purposes, non-harvest data including road kill data, incidental take data, biological samples from carcasses, and demographics data derived from the necropsy of carcasses collected by the furbearer project. Disease, parasite and other health issues potentially impacting furbearer species will be monitored and evaluated.

**Summary:** Road kill and observation data were collected from reports filed by wildlife biologist, conservation officers, trappers, the general public, and regional Fish and Game staff. This subjective information is used to further evaluate regional and local field conditions in our efforts to formulate season recommendations. Bobcat sighting reports and carcass collection continue to be an integral part of monitoring for that species. Wildlife diseases potentially affecting furbearer populations were evaluated.

**Target date:** June 30<sup>th</sup> annually 2021-2025.

**Status of progress:** On schedule.

**Deviations:** None.

**Objective Approach:** Non-hunting mortality may be collected via reports submitted by department staff. Carcasses and/or samples may be collected by staff incidental to pelt tagging or as a result of trapping or incidental mortality. All incidentally killed bobcat and marten carcasses will be systematically collected and delivered to the furbearer biologist for necropsy. Information regarding cause, location and date of death will be provided with each carcass, using existing department forms to include non-harvest mortality forms and special wildlife permits. All carcasses will be examined by the furbearer biologist to assess age, sex, weight, physical condition and reproductive status. All data will be entered into an electronic database for storage and analysis.

A spring turkey hunter survey was established to determine hunter effort and furbearer sightings of eastern coyote, bobcat, fisher, gray fox, and red fox. All data will be entered into an electronic database for storage and analysis.

**Results:** Bobcat carcasses were collected through incidental trapper take, road-kills, and other sources of mortality in an effort to evaluate population health and status (Table 1). A total of 76 bobcats were trapped and/or handled. This included 1 trap mortality, 35 trapped and released, 39 road-killed, 1 shot/agriculture damage, and 0 euthanized. All mortalities were collected and necropsied during the 2022-2023 season (Table 3). However, date of mortality may not have occurred during the 2022 - 2023 season.

Age data for some animals reported in Table 1 will not become available during this grant segment and will subsequently be reported in the next grant segment (Table 2 as an example). This lag is due to the period of time when teeth are collected, submitted to the lab for aging, received and incorporated into data sets.

The spring turkey hunter survey recorded sighting rates (per 100 hunter hours) for bobcat (0.67), eastern coyote (2.11), fisher (0.20), gray fox (0.09), and red fox (1.10; Table 4).

**Conclusions:** Collection of bobcat carcasses continues to provide valuable information on the causes of mortality and sex and age structure of the bobcat population. Increasing sample sizes provide increased confidence in estimates of bobcat productivity and survival. The potential impacts of wildlife diseases on New Hampshire's furbearers are being assessed.

**Custom Qualitative Indicator/Output:** Non-harvest data including road kill, incidental take, biological samples from carcasses, and bobcat demographics data from carcass necropsies have been collected. Diseases, parasites and other furbearer health issues have been monitored and evaluated.

**Recommendations:** Continue to collect and assess bobcat carcasses for use in evaluating bobcat population status and to assess the potential impacts of wildlife diseases and other non-harvest mortality on furbearer species.

Prepared by: \_\_\_\_\_

Patrick Tate  
Furbearer Project Leader  
July 17, 2023

**Table 1. Bobcat necropsy results from cats processed during 2022-2023\***

| <b>Date Killed</b> | <b>Cause</b> | <b>Sex</b> | <b>Weight (lbs.)</b> | <b>Age</b> | <b>Town</b>   | <b>Placental Scars</b> |
|--------------------|--------------|------------|----------------------|------------|---------------|------------------------|
| 7/6/2022           | Vehicle      | Female     |                      | 1          |               |                        |
| 7/25/2022          | Shot         |            |                      | X          | Dunbarton     |                        |
| 7/23/2022          | Vehicle      | Male       | 20.75                | 1          | Lee           |                        |
| 8/2/2022           | Vehicle      | Female     | 4                    | 0          | Dunbarton     |                        |
| 8/15/2022          | Vehicle      |            | 4.5                  | 0          | Hampton       |                        |
| 8/30/2022          | Vehicle      | Female     | 8.5                  | 0          | Brentwood     |                        |
| 8/30/2022          | Vehicle      | Female     | 8.5                  | 0          | Brentwood     |                        |
| 5/29/2022          | Vehicle      | Male       | 19.5                 | 1          | Strafford     |                        |
| 7/6/2022           | Vehicle      | Female     | 14                   | 2          | Deerfield     |                        |
| 10/31/2020         | Vehicle      | Female     | 18.5                 | 1          | Kingston      |                        |
| 7/17/2022          | Vehicle      | Female     | 17.5                 | 3          | Gilmanton     |                        |
| 8/20/2022          | Vehicle      | Male       | 18.75                | 1          | Weare         |                        |
| 10/3/2022          | Vehicle      | Male       |                      | 1          | Pembroke      |                        |
| 10/9/2022          | Vehicle      | Male       |                      | 1          | Merrimack     |                        |
| 11/10/2021         | Vehicle      | Male       |                      | 0          | Derry         |                        |
| 10/13/2022         | Vehicle      | Female     | 18                   | 2          | Salem         |                        |
| 11/7/2022          | Vehicle      | Female     |                      |            | Epping        |                        |
| 11/7/2022          | Vehicle      | Female     | 8.5                  |            | Marlboro      |                        |
| 6/2/2022           | Vehicle      | Female     | 14                   |            | Swansey       |                        |
| 9/5/2022           | Vehicle      | Male       | 23.5                 |            | Reg4          |                        |
| 11/7/2022          | Vehicle      | Female     | 20.5                 |            | Gilmanton     |                        |
| 11/2/2022          | Vehicle      | Male       | 28                   |            | Raymond       |                        |
| 11/9/2022          | Vehicle      | Male       | 29                   |            | Seabrook      |                        |
| 11/17/2022         | Vehicle      | Male       | 11                   |            | North Hampton |                        |
| 12/7/2022          | Vehicle      | Male       | 36                   |            | New Durham    |                        |
| 12/8/2022          | Vehicle      | Female     | 19.5                 |            | Merrimack     |                        |
| 12/27/2022         | Vehicle      | Male       | 16.5                 |            | Hampton       |                        |
| 1/4/2023           | Vehicle      | Female     | 18                   |            | Norttingham   |                        |
| 1/4/2023           | Vehicle      | Male       | 15                   |            | Nashua        |                        |
| 1/18/2023          | Vehicle      | Female     |                      |            | Epping        |                        |
| 2/9/2023           | Vehicle      | Male       | 11.5                 |            | Hollis        |                        |
| 1/13/2023          | Vehicle      | Female     | 14.5                 |            | Atkinson      |                        |
| 2/15/2023          | Vehicle      | Male       | 13.25                |            | Merrimack     |                        |
| 2/16/2023          | Vehicle      | Male       |                      |            | Exeter        |                        |
| 2/19/2023          | Vehicle      | Female     |                      |            | Bedford       |                        |
| 12/19/2022         | Trapped      | Female     | 15.50                |            | Danbury       |                        |
| 2/16/2023          | Vehicle      | Male       | 20.00                |            | Rumney        |                        |
| 3/23/2023          | Vehicle      | Male       |                      |            | Stratham      |                        |
| 3/27/2023          | Vehicle      | Female     | 19.50                |            | Raymond       |                        |
| 4/13/2023          | Vehicle      | Male       | 25.00                |            | Hudson        |                        |
| 4/21/2023          | Vehicle      | Male       | 14.50                |            | Goffstown     |                        |

\* Age data was not available for all bobcats listed in this table. Remaining ages will be reported during the next grant segment.

**Table 2. Bobcat necropsy results from cats processed during 2021-2022**

| <b>Date Killed</b> | <b>Cause</b> | <b>Sex</b> | <b>Weight (lbs.)</b> | <b>Age</b> | <b>Town</b>  | <b>Placental Scars</b> |
|--------------------|--------------|------------|----------------------|------------|--------------|------------------------|
| 7/5/2021           | Vehicle      | Female     | 17.25                | 6          | Hampstead    | 4                      |
| 8/14/2021          | Vehicle      | Male       |                      | 1          | Londonderry  |                        |
| 8/16/2021          | Vehicle      | Male       |                      | 7          | Freedom      |                        |
| 11/21/2020         | Unknown      | Unknown    |                      | 4          | Greenville   |                        |
| 12/4/2021          | Vehicle      | Male       |                      | 1          | Dunbarton    |                        |
| 9/15/2021          | Vehicle      | Female     |                      | 4          | Dummer       | 2                      |
| 10/29/2021         | Euthanized   | Male       |                      | 1          | Franklin     |                        |
| Unknown            | Unknown      | Male       |                      | X          | Exeter       |                        |
| 11/8/2021          | Vehicle      | Female     |                      | 3          | Peterborough | 2                      |
| 7/29/2021          | Vehicle      | Female     |                      | 1          | Newfields    | 3                      |
| 12/5/2021          | Trapped      | Male       |                      | 0          | Lyme         |                        |
| 11/18/2021         | Vehicle      | Male       |                      | 2          | Reg1         |                        |
| 11/8/2021          | Vehicle      | Female     |                      | 0          | Stratford    | 0                      |
| 11/12/2021         | Vehicle      | Female     |                      | 0          | Kingston     | 0                      |
| 12/14/2021         | Shot         | Female     |                      | 0          | Wilton       | 0                      |
| 7/14/2021          | Vehicle      | Male       |                      | 1          | Belmont      |                        |
| 6/1/2021           | Vehicle      | Male       |                      | 4          | Ashland      |                        |
| 10/6/2021          | Vehicle      | Female     |                      | 1          | Hanover      | 3                      |
| 10/17/2021         | Vehicle      | Male       |                      | 2          | Alexandria   |                        |
| 11/18/2021         | Vehicle      | Female     |                      | 3          | Reg1         | 3                      |
| 9/25/2021          | Vehicle      | Male       |                      | 1          | Boscawen     |                        |
| 12/14/2021         | Vehicle      | Female     |                      | 3          | Candia       | 2                      |
| 10/3/2021          | Vehicle      | Female     |                      | 1          | Hopkinton    | 0                      |
| 8/9/2021           | Vehicle      | Female     |                      | 3          | Wentworth    | 1                      |
| 11/23/2016         | Vehicle      | Male       |                      | 10         | Chesterfield |                        |
| 11/12/2021         | Vehicle      | Male       | 20                   | 0          | Kingston     |                        |
| 10/13/2021         | Vehicle      | Male       | 30                   | 1          | Reg 3        |                        |
| 1/16/2022          | Vehicle      | Male       |                      | 0          | Northwood    |                        |
| 1/24/2022          | Vehicle      | Male       | 18.5                 | 0          | Concord      |                        |
| 1/25/2022          | Vehicle      | Female     | 8.5                  | 0          | Bethlehem    | 0                      |
| 1/28/2022          | Euthanized   | Male       | 6.25                 | 0          | Atkinson     |                        |
| 1/10/2022          | Vehicle      | Female     | 11.75                | 0          | Rindge       | 0                      |
| 12/17/2021         | Vehicle      | Female     | 20                   | 1          | Deering      | 0                      |
| 2/11/2022          | Vehicle      | Male       | 12.25                | 0          | Chichester   |                        |
| 2/17/2022          | Vehicle      | Female     | 15                   | 0          | Epping       | 0                      |
| 2/23/2022          | Vehicle      | Female     | 13                   | 0          | Nashua       | 2                      |
| 3/16/2022          | Vehicle      | Female     | 24.5                 | 4          | Kingston     | 3                      |
| 3/4/2022           | Vehicle      | Female     |                      | 0          | Milford      |                        |
| 3/6/2022           | Trapped      | Male       | 25                   | 9          | Whitefield   |                        |
| 3/30/2022          | Vehicle      | Male       | 18.25                | 0          | Concord      |                        |
| 3/30/2022          | Vehicle      | Female     | 11.75                | 2          | Canterbury   | 1                      |
| 4/7/2022           | Vehicle      | Male       | 31.5                 | 2          | Londonderry  |                        |
| 4/8/2022           | Natural      | Male       |                      | 1          | Pembroke     |                        |
| 4/7/2022           | Vehicle      | Female     | 11.25                | 2          | Kingston     | 0                      |
| 4/21/2022          | Vehicle      | Male       | 18.25                | 1          | Raymond      |                        |
| 5/7/2022           | Vehicle      | Male       | 16.75                | 0          | Merrimack    |                        |
| 4/19/2022          | Vehicle      |            |                      | X          | Epping       |                        |

**Table 2. Bobcat necropsy results from cats processed during 2021-2022 (cont.)**

|           |         |      |       |   |               |  |
|-----------|---------|------|-------|---|---------------|--|
| 5/7/2022  | Vehicle | Male | 16.75 | 0 | Merrimack     |  |
| 4/19/2022 | Vehicle |      |       | X | Epping        |  |
| 5/26/2022 | Vehicle |      |       | X | Hampton Falls |  |
| 6/3/2022  | Vehicle | Male | 21.25 | 1 | Contoocook    |  |

**Table 3. New Hampshire bobcat data collected during the period 7/1/22 through 6/30/23.**

| Trapped Bobcats |          | Other Bobcat Sources |           |              |      |                    |
|-----------------|----------|----------------------|-----------|--------------|------|--------------------|
| Killed          | Released | Illegally killed     | Roadkills | Natural Loss | Shot | Agriculture Damage |
| 1               | 35       | 0                    | 39        | 0            | 1    | 0                  |

Table 4. 2022 Spring Turkey Hunter Furbearer Observation Rate.

| YEAR: 2021 | #OF HUNTER | TOTAL HOURS | TOTAL # OBSERVED |          |        |        |        | MEAN # OBSERVED PER 100 HUNTER HOURS |          |        |        |        | UNITS INCLUDED |
|------------|------------|-------------|------------------|----------|--------|--------|--------|--------------------------------------|----------|--------|--------|--------|----------------|
| REGION     | DAYS       | OF EFFORT   | RED FOX          | GRAY FOX | COYOTE | FISHER | BOBCAT | RED FOX                              | GRAY FOX | COYOTE | FISHER | BOBCAT |                |
| NORTH      | 180        | 605         | 9                | 0        | 20     | 1      | 14     | 1.49                                 | 0.00     | 4.40   | 0.19   | 2.09   | A,B,C2,D1      |
| WHITE MTN  | 277        | 1011        | 9                | 0        | 11     | 2      | 3      | 1.28                                 | 0.00     | 1.08   | 0.12   | 0.41   | C1,D2,E,F      |
| CENTRAL    | 905        | 3158        | 20               | 2        | 46     | 2      | 19     | 0.69                                 | 0.04     | 1.72   | 0.06   | 0.69   | G,I1,J1,J2     |
| SOUTH WEST | 1157       | 4061        | 30               | 6        | 102    | 8      | 22     | 1.25                                 | 0.17     | 2.79   | 0.34   | 0.54   | H1,H2,I2,K     |
| SOUTH EAST | 865        | 3097        | 29               | 2        | 42     | 6      | 19     | 1.19                                 | 0.08     | 1.48   | 0.17   | 0.61   | L,M            |
| STATEWIDE  | 3384       | 11932       | 97               | 10       | 221    | 19     | 77     | 1.10                                 | 0.09     | 2.11   | 0.20   | 0.67   | ALL            |

## Performance Report

**State:** New Hampshire

**Grant:** F20AF11939

**Grant Type:** Survey and Inventory

**Grant Title:** NH – WILDLIFE RESEARCH AND MANAGEMENT (W-89-R-21)

**Period Covered:** July 1, 2022 to June 30, 2023

**Purpose/Target Name:** PROJECT 6 - FURBEARER RESEARCH AND MANAGEMENT

**Objective Name:** JOB 3 - FORMULATION OF POPULATION MANAGEMENT RECOMMENDATIONS

**Objective Statement:** Furbearer season recommendations to achieving furbearer management goals and objectives will be developed and evaluated annually or biennially.

**Summary:** Furbearer trapping and hunting season data for 2022-2023 were evaluated and reported. This segment was a scheduled year for the biennial game management season-setting process, and a complete review of furbearer populations and other management issues was undertaken during this segment. Proposals were developed for the 2023 and 2024 furbearer trapping and hunting seasons, and the department's review process and the state's rule-making process were followed with biologists providing recommendations during review and for potential implementation of those proposals.

**Target date:** June 30<sup>th</sup> annually 2021-2025.

**Status of progress:** On schedule.

**Deviations:** None.

**Objective Approach:** Trapping season rules and seasons are reviewed, typically on a biennial basis. Information from preceding trapping seasons is evaluated in conjunction with short and long-term trend information and furbearer population objectives. Initial season recommendations will be developed by the Furbearer Project Leader and reviewed, evaluated and modified as necessary by the Department Game Management Team. Input from regional biologists and law enforcement staff is solicited, initial recommendations are formulated for presentation to the Wildlife Programs Committee and then presented to the Commission. Upon receipt of initial approval, proposals are presented for public input at 3 to 5 public hearings. The Game Management Team revisits the initial proposals taking public comment into consideration, and presents them to the Executive Director and Commission for their final review and approval. Only those costs incurred up to, and including, development of final management recommendations will be charged to this grant.

**Results:** This job was completed during this reporting period. Eastern coyote, red fox, gray fox, and fisher harvest seasons for were re-adopted. Furbearer season recommendations are formulated on a biennial basis.

**Conclusions:** Data generated in this project (Jobs 1 and 2) allows for the formulation of science-based furbearer management recommendations under this job (Job 3).

**Custom Qualitative Indicator/Output:** Annual or biennial season recommendations consistent with achieving furbearer management goals and objectives have been developed and evaluated.



**Recommendations:** Catch per unit effort data will continue to serve as our primary index to furbearer population status. Our existing season-setting framework appears to provide a solid foundation for recommendation formulation and review. Continue this job as planned.

Prepared by: \_\_\_\_\_

Patrick Tate  
Furbearer Project Leader  
July 17, 2023

## Performance Report

**State:** New Hampshire

**Grant:** F20AF11939

**Grant Type:** Survey and Inventory

**Grant Title:** NH – WILDLIFE RESEARCH AND MANAGEMENT (W-89-R-21)

**Period Covered:** July 1, 2022 to June 30, 2023

**Purpose/Target Name:** PROJECT 6 - FURBEARER RESEARCH AND MANAGEMENT

**Objective Name:** JOB 4 - PROFESSIONAL EXCHANGE AND DISSEMINATION OF PROJECT INFORMATION

**Objective Statement:** To actively communicate with diverse furbearer management stakeholders and the general public interested in furbearer management in New Hampshire. To facilitate peer communication and information exchange. To disseminate information and data generated in the New Hampshire furbearer management project to all interested parties.

**Summary:** Furbearers continue to be a topic of significant public interest. Coyotes, beaver, fisher, wolves, and mountain lions, continually generate significant interest from the public and corresponding media inquiries. Federal Aid reports and furbearer harvest summaries were prepared.

**Target date:** June 30<sup>th</sup> annually 2021-2025.

**Status of progress:** On schedule.

**Deviations:** None.

**Objective Approach:** Furbearer management project information, goals, and accomplishments will be communicated to the public through a variety of techniques. These will include preparation of annual Federal Aid reports, harvest summaries, magazine articles, web site reports, video productions, newsletter articles, harvest summaries, pamphlets, slide presentations, assorted personal communications and formal group presentations. Television, radio, and newspaper interviews will be given as circumstances warrant. Information may include advocating changes in trapping methods and procedures as recommended through a national Best Management Practices research effort funded by the International Association of Fish and Wildlife Agencies (IAFWA). Professional technical meetings and pertinent workshops will be attended in order to disseminate and receive information relevant to furbearer management experiences and practices.

**Results:** Inquiries regarding furbearer species coming from students, teachers, reporters, naturalists, environmental consultants, and the general public, were answered. The project leader presented information to various public groups, on an approximate monthly basis, depicting current furbearer trends and populations (derived through this Federal Aid Project). Presentations encouraged an understanding of the need for active management, including trapping and hunting of furbearer species. The project leader used this job to share specific information and data generated by this project to consultants and others.

On an approximate weekly basis the project leader provided interviews and/or information to various news media and outlets regarding various aspects of NH's furbearer project. Coyotes, bobcats, wolves, and mountain lions continued to be a common focus of public concern and inquiry. Routine correspondence and e-mail requests for information, sighting reports, or other furbearer related topics were responded to.

On an annual basis the New Hampshire Trappers Association (NHTA) holds a fall rendezvous/business meeting, which is attended by the project leader. Furbearer questions or concerns from the NHTA and other attendees are routinely discussed in an open environment.

On an annual basis the project leader attends the Northeast Fur Resources Technical Committee. Topics discussed included: regional data reporting, fisher populations, CITES- bobcat information, muskrat population dynamics, and an array of other applicable furbearing animal topics.

An annual furbearer summary report was printed in the widely distributed "2022 New Hampshire Wildlife Harvest Summary" (see NH Federal Aid Report W-89-R-21, Project 1, Job 4, Appendix 1). Due to the wide variety of furbearer species and substantial public ignorance regarding their ecology and management, this job remains an integral part of the furbearer project. Specific information from this project are routinely included in the following publications: The New Hampshire Fish and Game (NHF&G) biennial report and Wildlife Journal Magazine, the Annual Fur Regulation Digest, the NHF&G Annual Harvest Report, The Northeast Furbearer Technical Committee Status Report, the CITES annual river Otter/Bobcat Report, and data made available to the news media as reported above.

Federal Aid Reports covering this grant segment were completed as required, in a professional and timely fashion.

**Conclusions:** Public and constituent communication is a critical aspect of furbearer management in our rapidly urbanizing environment. The better informed the public and constituents are, the greater the support for science-based management. Peer communication is another important aspect of successful furbearer management, both in terms of comparing and contrasting data, and also in terms of exchanging ideas and learning from the experiences of others.

**Custom Qualitative Indicator/Output:** Active communication has occurred with furbearer management stake holders and the public. Communication and information exchanges with peers have been facilitated. Information and data generated by the furbearer project has been disseminated to all interested parties.

**Recommendations:** Outreach and communications are essential components of wildlife stewardship. Continue this job as planned.

Prepared by: \_\_\_\_\_

Patrick Tate  
Furbearer Project Leader  
July 17, 2023