FURBEARER PROGRAM

STATEWIDE HARVEST & MANAGEMENT REPORT
2012-2013

MONTANA
FURBEARER PROGRAM

2012-13 STATEWIDE
HARVEST AND MANAGEMENT REPORT

PERIOD COVERED: July 2012 – June 2013

PREPARED BY: Brian Giddings
State Furbearer Coordinator
Montana Fish, Wildlife & Parks
P.O. Box 200701
Helena, MT 59620-0701

DATE: June 2014
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Statewide trend in fox harvest from CPUE, 1995-96 to 2012-13

Statewide raccoon harvest by trapping district, 1994-95 to 2012-13

Statewide trend in raccoon harvest from CPUE, 1995-96 to 2012-13

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Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13

Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13

Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13
**Program Goals**

1) Maintain well-distributed and healthy furbearer populations and associated habitats.

2) Provide ecological, recreational, cultural, educational, economic, and scientific benefits of the state’s furbearers though sound resource management.

3) Address the social impacts of furbearers on human health, private property, and agricultural values.

**Statewide Objectives**

1) Monitor population trends and the distribution of each furbearer species.

2) Maintain Montana’s viable populations of each species by promoting the conservation and enhancement of furbearer habitats.

3) Address the interest by resident publics for consumptive and non-consumptive uses of the state’s furbearer resource.

4) Optimize recreational harvest opportunities through a sustained use management approach under regulatory protections.

5) Minimize animal damage and/or nuisance wildlife problems utilizing Department policies and management practices.

6) Promote trapping practices that minimize the take of non-target species and maximizes the humane harvest of furbearers.

7) Develop a public understanding and acceptance for the basis of the consumptive use of furbearers.

**Management Strategies**

1) Identify and associate species distribution and population trends with delineated habitats.

2) Investigate species population trends through species/habitat surveys, species occurrence reports, harvest data, and research information.

3) Utilize regulatory mechanisms to provide trapper/hunter participation, harvest data, and biological information.

4) Include furbearer species in land management decisions.
Harvest and Management Activities

1) Population information and harvest data are collected by county and/or trapping district and reported by trapping district and statewide in this report. This method is intended to more closely describe the association between species diversity, distribution, and abundance with identified ecosystems and to use reconcilable legal units in the state. Furbearer species with harvest seasons are beaver, otter, muskrat, mink, marten, fisher, wolverine, bobcat, and swift fox. Furbearers with a closed season are lynx, and are not included in this report. Weasel, skunk and coyote are state classified predators while red fox, raccoon, and badger are nongame species of which limited harvest data is collected so they are included in this report.

2) The annual harvests of otter, marten, fisher, wolverine and bobcat are monitored through a statewide reporting, pelt tagging and harvest registration system. Registration is initiated under 24-hour mandatory reporting through an automated telephone call-in system referred to as the Mandatory Reporting Response Entry (MRRE) system. All pelt tag sealing and completion of species harvest registration forms, which are generated in MRRE, are conducted by FWP personnel. Marten, fisher, wolverine and swift fox pelts are tagged under the authority of the state, while otter and bobcat are tagged under oversight of the U.S. Fish & Wildlife Service to meet federal CITES pelt export requirements.

3) Harvest data on the three remaining furbearers (beaver, muskrat, mink) and six fur-producing animals (weasel, skunk, coyote, fox, raccoon, badger) was collected through a trapper harvest survey questionnaire. In addition, the same harvest data is collected on the five tagged/registered furbearers through the same survey questionnaire to specifically measure trapper effort and catch rates. Trapper effort will be used in developing long-term species population trend indices. The trapping and fur harvest survey was mailed to all resident and nonresident license holders. No reminder was sent to non-respondents. Expanded estimates of furbearer trapping, hunting, and harvest activities were made from the returned sample. The survey requests information on the estimated number of species harvested by county and trapping district, harvest method, and harvest effort. Summary harvest statistics and calculated catch rates were generated by a software package through FWP’s Research & Technical Services Unit.

4) Mandatory carcass collections are required for fisher and wolverine, and skulls must be surrendered from harvested otter, bobcat and swift fox. Marten skulls have not been required to be turned in since the 2008-09 season, but were collected in prior years. All carcasses and skulls are forwarded to FWP’s Wildlife Laboratory in Bozeman for biological analysis to determine specimen age, sex, body condition, food habits, reproductive history, and to collect tissue samples for potential genetic analysis.

5) A Montana fur dealer survey conducted by the state furbearer coordinator has been replaced by checking the North American Fur Auction (NAFA) website after the winter and spring sales in order to obtain average pelt values for each fur-producing species. An increasing number of Montana trappers are shipping directly to NAFA. This information can be used to calculate economic fur value of each species as a predictor of harvest pressure (i.e. higher prices = greater harvest pressure).
6) Annual winter furbearer snow track surveys had been conducted by regional wildlife biologists following a standardized survey protocol and track identification methods in Trapping Districts 1-4 (NW and SW mountainous forest habitats). However, track surveys were discontinued after the 2011-12 winter until a further evaluation is conducted.

7) Biologists in trapping districts 4-7 are in the process of developing lagomorph prey indices through the use of headlight surveys. The numbers of lagomorphs are counted on established routes three times each survey period. This index to prey availability is utilized to predict bobcat population fluctuations by anticipating changes in annual rabbit production (March surveys) or recruitment levels (September surveys).

8) Department furbearer occurrence/distribution report forms are distributed and collected annually. Reports are completed only by Department personnel from verified reports or personal observations. Accumulated reports provide species occurrence and location data to assist in delineating statewide and trapping district distribution of selected furbearer species (otter, fisher, wolverine, lynx and swift fox).

9) Furbearer research is an ongoing statewide activity that is utilized to address management related issues on a species-specific basis when funding is available.

Statewide Harvest and Management Results

Harvest and management results were analyzed by county and trapping district and reported as a statewide summary. The seven legally defined trapping districts (TDs) and 56 Montana counties are shown in Fig. 1.

License Sales

The 6,299 trapping license sold during the 2012-13 season was a 19% increase from the previous year of 5,053 licenses and 37% above the 10-year average (Fig. 2). License purchases at the seven regional offices and the Helena headquarters are somewhat mixed each year. However, in 2012-13 all regional offices and Helena had increased sales from the previous year (Table 1). The ability to purchase licenses online, but probably more so was the first gray wolf trapping season in 2012-13 with a requirement that wolf trapper’s purchase a general trapper license. Again, a general upward trend in statewide license sales is apparently continuing through 2012-13 from the lowest sales at any time in 1990-91 when 1,736 licenses were sold.

Annual Harvest Summary

Montana’s furbearer harvest for the 2012-13 season is presented in Table 2. A 10-year harvest summary for years that species harvest data is available is presented in Table 3. These figures represent the known legal harvest of registered furbearer species and an estimated harvest of the remaining six species based on the trapper harvest survey. Detailed harvest statistic estimates by species, trapping district and county are available in the Trapping and Fur Harvest Reports (K. Podruzny, pers. comm.). During the most recent year available, trapper survey questionnaires were returned from approximately 35% of the 6,299 people who purchased a trapper’s license during the 2012-13 furbearer season. The total number of animals reported being taken during the 2012-13 season increased by 8% over the 2011-12 season (Table 3). This increase may be the
result of mild weather conditions, generally stable populations of most furbearing animal species in various portions of the state, and higher than average pelt prices for most species.

Pelt Prices

Pelt prices continued a general increase for most species during the 2012-13 season, with several species demonstrating large increases in value, particularly beaver, otter, muskrat, mink, fisher, bobcat, and red fox (Table 4). The most significant increases in harvest numbers were reported for beaver, muskrat, marten, bobcat, coyote, fox and raccoon with decreases in the harvest of weasel and skunk, despite slightly higher prices from the previous year.

Species Harvest Summary

Statewide species harvest trends by trapping districts and statewide are presented in the Species Harvest Summary section (pages 17 to 60). The statewide harvest of most species was generally stable to increasing with larger increases in the mink, marten and coyote harvests during 2012-13. These changes are variable, however, among the seven trapping districts. Harvest numbers may correspond to species abundance within each habitat type, although other variables, such as trapper effort and catch rate, may be more useful indicators to correlate harvest data with population trends. Under this assumption, there are specific implications for habitat and species management opportunities.

Population Monitoring

Results calculated from the trapper harvest survey that reports trapper effort for all species, including the known registered species harvest, provided Catch Per Unit Effort (CPUE = # animals harvested/1,000 trap days) which is used to help monitor population trends (Species Harvest Summary (pages 17 to 60). Using estimated catch rates (trap days/catch) from the annual harvest survey continues to be evaluated as a population monitoring parameter. Metrics such as these will be examined further to determine how well they may reflect species population trend. Graphs of the CPUE for species groups, to compare trends among similar species, are presented on pages 56 and 57 in the Species Harvest Summary section.

Results of carcass collections from fisher and wolverine, and skull turn-in from otter and bobcat are shown under each of these species sections in the Species Harvest Summary (pages 17 to 60). The most important aspect of these collections is to extract a tooth for age determination. The graphs illustrate analysis of the biological parameters reported, which are juvenile/adult female ratios, age structure, sex ratios, and median ages of the harvest sample which should represent population parameters. Not all years or most recent years may be available for age data, as processing adult teeth can take 1-2 years for results. Marten skull collections were discontinued beginning with the 2008-09 season, partially because stable population parameters have remained unchanged. Fisher and wolverine sample sizes are extremely small, so they do not necessarily represent a population trend. Any additional species information from wildlife laboratory analysis will be reported as it becomes available in future reports.

The number of FWP occurrence/distribution reports received showed a consistent trend during the past several years with the majority of reports collected for wolverine and swift fox. Recent reports will to be entered in a locational referenced database, similar to the furbearer harvest database that
provides species distribution data. The number of counties in the state for reported swift fox observations continues to increase.

Furbearer Research

Research related to furbearers that were supported and/or permitted by FWP or the state furbearer program during the report period includes a lynx project in northwestern Montana and an otter genetics connectivity investigation was initiated during the report period. The USFS lynx project is ongoing. No results are available from the otter genetics analysis. Wolverine work conducted from 2002-2010 has been completed and continues to be published in peer review journals R. Inman, pers. comm.). A bibliography of most furbearer program related research to date is listed on pages 61 to 67 in this report.
Figure 1. Map of Montana delineating furbearer regulation trapping districts and counties.

Figure 2. Montana trapper license sales trend, 1975-76 to 2012-13.
Table 1. Montana trapping license sales, 2012-2013.

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<th>Missoula</th>
<th>Bozeman</th>
<th>Great Falls</th>
<th>Billings</th>
<th>Glasgow</th>
<th>Miles City</th>
<th>Helena</th>
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<td>625</td>
<td>746</td>
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<td>490</td>
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<td>Youth</td>
<td>9</td>
<td>13</td>
<td>14</td>
<td>4</td>
<td>5</td>
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<td>Nonresident</td>
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<td><strong>Total</strong></td>
<td>865 (+27%)</td>
<td>698 (+33%)</td>
<td>1,069 (+15%)</td>
<td>652 (+12%)</td>
<td>782 (+15%)</td>
<td>195 (+17%)</td>
<td>527 (+13%)</td>
<td>1,512 (+22%)</td>
<td>6,299 (+20%)</td>
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Table 2. Montana furbearer, predator and nongame species harvest summary, 2012-2013.

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<td>1,931</td>
<td>1,711</td>
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<td>532</td>
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<td>Otter</td>
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<td>16</td>
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<td>153</td>
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*Figure may include animals harvested in unknown trapping district and ( ) indicates incidental harvest.

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Table 4. Average pelt price reported by species, 1990-91 to 2012-13.

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BEAVER

The statewide beaver harvest has been relatively stable over the past several years, but has increased in 2011-12 and again in 2012-13 over the previous several years, but still remains at a lower level from the most recent peak harvests in the late 1990s (Fig. 3). The estimated 2012-13 harvest of 7,085 beaver is 16% below the 10-year average harvest level, despite above average reported pelt price (Table 5).

Examining the trend in CPUE it appears harvest effort decreased during the 2012-13 season after an increase the previous year, indicating that less beaver are being taken per unit of effort (Fig. 4). Population monitoring activities for beaver are based completely on reported trapper survey data, with the CPUE considered to indicate relative population trend, which could be considered as relatively stable, with a recent decreasing to stable trend since 2007-08. A comparison of CPUE for beaver with the other semi-aquatic species is shown in Fig. 51.

Generally higher pelt prices will lead to more trapper effort, as reflected in the CPUE during 2011-12 for beaver and an increase in harvest numbers, particularly in certain portions of the state, however that trend declined in 2012-13. Habitat conditions may also be influencing beaver numbers by expanding water areas and riparian tributaries as a result of good spring moisture conditions, which could lead to less damage control complaints, at least in some regional areas of the state, particularly in western and central Montana.

Table 5. Beaver harvest, pelt price, and quota level if applicable, 1994-95 to 2012-13.

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Figure 3. Statewide beaver harvest by trapping district, 1994-95 to 2012-13.

Figure 4. Statewide trend in beaver harvest from CPUE, 1995-96 to 2012-13.
OTTER

Otter are one of five furbearers that are required to be reported, registered and pelt tagged so that the actual number of harvested animals is known. The 2012-13 harvest of 85 otters is about 13% above the 10-year average of 74 otters (Table 6). The otter harvest has always been managed through a trapper limit and since the 2002-03 season also under trapping district (TD) quotas. Up through the 2001-02 season a one otter per trapper limit was in place, which also changed in 2002-03 to a two otter limit per trapper under the regulated quota in each of the seven TD’s. The two otter limit and quota changes were made in response to healthy populations, to reduce surrendered incidental take in beaver sets, and more interest by trappers as pelt prices were increasing at that time. Quotas are now used as a harvest management tool to maintain well distributed and healthy otter populations, while trapper limits provide more opportunity and flexibility to harvest otter by the trapping community. The total quota for the state has increased from 84 in 2002-03 to 95 in 2007-08, at which level it has remained (Table 6). The statewide otter harvest increased with pelt prices until a peak price and corresponding harvest occurred during the 2005-06 season. Harvest has since declined through the 2011-12 season, but increased by 20% in 2012-13 along with higher pelt price over the last two years. However, the long-term harvest level and proportion of the harvest by TD has remained relatively stable (Fig. 5).

The statewide trend in otter harvest CPUE has been relatively stable, however an increase occurred in 2012-13, indicating less effort per otter harvest which may suggest an increasing otter population in the state (Fig. 6). A comparison of otter CPUE with the other semi- aquatic species is presented in Fig. 51. Population monitoring for otter consists of the collection and analysis of biological data from the harvest sample through mandatory carcass turn-in from trappers through the 2011-12 season. Starting with the 2012-13 season, only otter skulls are being collected. Although not all data is available for some years, trends in population parameters of juveniles per adult female, age structure, sex ratios, and median ages shown in Fig. 7 to 10 indicate a strong juvenile segment and show a relatively stable population on a statewide basis.

Table 6. Otter harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 5. Statewide otter harvest by trapping district, 1994-95 to 2012-13.

Figure 6. Statewide trend in otter harvest from CPUE, 1995-96 to 2012-13.
Figure 7. Otter population parameter of juveniles per adult female ratio, 2003-04 to 2012-13.

Figure 8. Otter population parameter of age structure, 2003-04 to 2012-13.
Figure 9. Otter population parameter of sex ratios, 2003-04 to 2012-13.

Figure 10. Otter population parameter of median ages, 2003-04 to 2012-13.
The statewide muskrat harvest has continued to increase over the past several years. The 2012-13 season produced the highest estimated harvest of 27,731 animals over the last 19 years and remained at a similar level to the 2011-12 harvest of 27,236 muskrat (Table 7). This increasing harvest may have been influenced by higher than average pelt prices of $11.51 in 2012-13 compared to the previous 10-year average pelt price of $4.00. In addition, the estimated 2012-13 muskrat harvest was 46% above the 10-year average harvest of 15,194 animals (Fig. 11).

Population monitoring activities for muskrat are based completely on trapper harvest survey data, with CPUE from the harvest survey considered to be an indicator of relative population trend, which could be considered as stable to increasing, with a recent decline during 2011-12 and 2012-13 (Fig. 12). Examining the trend in CPUE it appears catch rates were generally increasing until the past two years, indicating that in 2012-13 less muskrat are being taken per unit of effort, possibly indicative of the above average harvest numbers and trapping pressure (Fig.12). A comparison of CPUE for muskrat with the other semi-aquatic species is shown in Fig. 51.

Table 7. Muskrat harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 11. Statewide muskrat harvest by trapping district, 1994-95 to 2012-13.

Figure 12. Statewide trend in muskrat harvest from CPUE, 1995-96 to 2012-13.
The statewide mink harvest has continued to increase over the past several years since the lowest harvest during 2008-09 in recent years. The 2012-13 estimated harvest of 1,491 mink is the highest since 2000-01 (Table 8). Mink harvest is considered to be somewhat correlated to interest in muskrat trapping, which appears to be the case with the 2012-13 peak in muskrat harvest numbers. The estimated 2012-13 mink harvest was 37% above the 10-year harvest average (Fig. 13), along with above average pelt prices. The average value of mink pelts was the second highest level in at least 19 years (Table 8). Mink harvest levels are likely tied to landownership patterns and trapper access to streams and wetlands, and where muskrat can be found on public land wetlands.

Population monitoring activities for muskrat are based completely on trapper harvest survey data, with the CPUE considered to be an indicator of relative population trend, which could be considered as stable, despite the above average estimated harvest during the 2012-13 season. When examining the trend in CPUE for mink, it appears harvest effort has generally remained stable, with some changes in harvest effort that may be related over time to interest in muskrat trapping, indicating that mink are being harvested at about a similar scale per unit of effort, at least through the 2012-13 season (Fig.14). A comparison of CPUE for mink with the other semi-aquatic species is shown in Fig. 51.

Table 8. Mink harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 13. Statewide mink harvest by trapping district, 1994-95 to 2012-13.

Figure 14. Statewide trend in mink harvest from CPUE, 1995-96 to 2012-13.
MARTEN

Marten are one of the five furbearers that are required to be reported, registered and pelt tagged so that the actual number of harvested animals is known. The statewide marten harvest continued to increase, with an increasing harvest trend during the past several years including 2012-13 (Fig. 15). The 2012-13 harvest of 1,443 marten was 32% above the 10-year average and at the highest harvest level over the past 19 years. The higher harvest in 2012-13 may correspond to a similar increase in pelt prices (Table 9). Examining the trend in CPUE it appears harvest effort has remained relatively stable on a statewide basis, indicating more marten are being taken with consistent pelt unit of effort (Fig. 16). Also, the distribution of the marten harvest is apparently shifting somewhat back to TD 1 in northwestern Montana as well as TD 2 in the west central part of the state while southwestern Montana remains similar to previous years (Fig. 15). Primary marten habitat is located almost exclusively on public forest lands.

Population monitoring for marten has consisted of analyzing harvest data and using the collection and analysis of biological data from the harvest sample through mandatory skull turn-in from trappers. However, marten skull collections were discontinued beginning with the 2008-09 season because of the difficulty in reconciling individual skulls to male/female categories for age data. The statewide trend in marten using CPUE appears to be a stable trend (Fig. 16) and a comparison of marten CPUE with the other terrestrial species is presented in Fig 52. The last year of aging marten was 2005-06 so this prior 10-year period is presented in Figures 17-19. From the available data collected prior to 2006-07 season, the previous long-term trend in population parameters continued to demonstrate a stable trend that showed an average of three juveniles per adult female (Fig. 17), a positive age structure bias to juveniles (Fig. 18), a stable sex ratio (Fig. 19), with a slight decrease in median age of adults and median age of total harvest at one and a half, indicating a strong proportion of juveniles in the population (Fig. 20). Again, these parameters indicate a relatively stable population over time that is maintaining a healthy population status on a statewide basis.

Table 9. Marten harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 15. Statewide marten harvest by trapping district, 1994-95 to 2012-13.

Figure 16. Statewide trend in marten harvest from CPUE, 1995-96 to 2012-13.
Figure 17. Marten population parameter of juveniles per adult female ratio, 1996-97 to 2005-06.

Figure 18. Marten population parameter of age structure, 1996-97 to 2005-06.
Figure 18. Marten population parameter of sex ratios, 2003-04 to 2012-13.

Figure 19. Marten population parameter of median ages, 1996-97 to 2005-06.
**FISHER**

The fisher harvest has been managed through a trapper limit of one and quotas in trapping districts (TD) 1 and 2. Over time, conservative adjustments have been made to quota levels that were based on harvest rates, population parameters and snow track survey data. These previous changes have provided a sustainable trapper harvest that is conservatively matched with maintenance of the current fisher population size and distribution relative to available habitats. A predictive habitat model indicates that moderate to high suitability fisher habitats comprise approximately 6,504 mi\(^2\) in west central and northwestern Montana, with TD 2 having over 50% more high suitability habitat than TD 1. A female subquota is also in place of 2 females to add an additional measure of protection for the reproductive segment of the population, to further insure harvest has no influence on statewide population status. Given fisher distribution relative to habitat availability, fisher habitat capacity appears to be correlated with similar levels of occupancy that is not impacted by a history of highly managed harvest. Fisher are one of the five furbearers that are required to be reported, registered and pelt tagged so the actual number of harvested animals is known. The fisher harvest continues to remain very stable under the current quota system (Fig. 21), despite a much higher pelt price (Table 10). The 2012-13 harvest of 6 fishers was near the 10-year average annual harvest level.

Population monitoring of fisher consists of analyzing harvest data and using the collection and analysis of biological data from the harvested animals through mandatory carcass turn-in from trappers. The trend in fisher harvest effort using CPUE has been a stable trend with an increase during 2012-13 (Fig. 22). A comparison of fisher CPUE with the other terrestrial species is presented in Fig 52. Harvested fishers provide an extremely small sample size, so population parameters do not allow a lot of interpretation. However, the small amount of data that is available appears to show that the population trend from these parameters is about two juveniles per adult female (Fig. 23), a mixed age structure with a good representation of juveniles in most years (Fig. 24), a low female sex ratio in most years (Fig. 25), with a higher than expected median age of adults and expected median age of the total harvest (Fig. 26).

### Table 10. Fisher harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 21. Statewide fisher harvest by trapping district, 1994-95 to 2012-13.

Figure 22. Statewide trend in fisher harvest from CPUE, 1995-96 to 2012-13.
Figure 23. Fisher population parameters of juveniles per adult female ratio, 2003-04 to 2012-13.

Figure 24. Fisher population parameter of age structure, 2003-04 to 2012-13.
Figure 25. Fisher population parameter of sex ratios, 2003-04 to 2012-13.

Figure 26. Fisher population parameter of median ages, 2003-04 to 2012-13.
WOLVERINE

Since wolverines were first classified as a state furbearer in the late 1970s, harvest was regulated by a one wolverine per trapper limit. Wolverines were considered to be recovered in Montana from a low point in the 1930s and now occupied the western third of the state. A study in the mid-1970s found that wolverines were at relatively high densities in the South Fork of the Flathead River drainage. Since then, statewide harvest during a 30-year period was considered stable and somewhat self-regulating with an average of 10.5 wolverine harvested annually (range 2 - 22 per year) during the period. However, recent research on the species has provided new information regarding wolverine ecology, better defined wolverine habitat, examined genetic relationships, survival, and landscape connectivity. FWP’s furbearer program provided funds and logistical support to these studies. Research results were used to develop a habitat model for Montana with corresponding population numbers and estimated sustainable harvest rates which were considered sustainable at a more regulated level. Therefore, FWP changed trapping regulations to reflect emerging information and additional data from wolverine research that suggested conservative quota levels were appropriate. Over the past several years quotas were adjusted to associate harvest levels with the three largest intact ecosystems in the state (Northern Continental Divide, Bitterroot-Idaho and Greater Yellowstone) and to recognize the lower population sizes in insular mountain ranges in the central portion of Montana. Further analysis tied to genetic make-up of the state’s wolverine population, the issue of maintaining population connectivity, and recognizing the core population areas of the three major ecosystems led to additional regulation changes. These most recent adjustments included delineating four wolverine management units (WMUs) with the three major ecosystems having reduced quotas for a statewide total of 5 animals and a central Montana WMU with a quota of zero to promote population connectivity between the three major ecosystems in the state where harvest is allowed. Managing the WMU /quota system has maintained biologically sound harvest opportunity for trappers, that does not jeopardize conservation of the species. However, with the pending decision by the USFWS to list wolverine under the ESA, the quota was reduced to zero during the 2012-13 season, so no harvest occurred.

Wolverines are one of five furbearers that are required to be reported, registered and pelt tagged so that the actual number of harvested animals is known (Table 11). The statewide wolverine harvest continues to remain stable through 2011-12 (Fig. 27). Conservative quotas implemented beginning with the 2008-09 season were reflected in the harvest of two wolverines during the 2011-12 season, which was 75% below the 10-year average harvest. This restrictive quota system has achieved the management goal of redistributing and lowering the wolverine harvest in the state. Harvest of wolverine is considered independent of pelt prices (Table 10) but does provide a unique harvest opportunity for resident trappers. Examining the trend in CPUE through 2011-12, it appears harvest effort has been relatively stable to more recently declining on a statewide basis, indicating that less wolverine are being taken per unit of effort, which would be expected (Fig.28).

Population monitoring for wolverine has consisted of analyzing harvest data and using the collection and analysis of biological data from the harvest sample through mandatory carcass turn-in from trappers. Up through th 2011-12 season, the statewide trend in wolverine using CPUE is a stable to declining trend (Fig.28) and a comparison of wolverine CPUE with the other terrestrial species is presented in Fig 52. The harvest sample of wolverine has provided only a very small sample size, so population parameters are more difficult to interpret. However, the long-term trend in population parameters have showed about .5 juveniles per adult female (Fig. 29), a mixed age structure with a relatively continuous representation of juveniles (Fig. 30), about a 50% female sex ratio (Fig. 31), with a median age of adults higher than the median age of the total harvest (Fig. 32).
Table 11. Wolverine harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 27. Statewide wolverine harvest by trapping district, 1994-95 to 2012-13.
Figure 28. Statewide trend in wolverine harvest from CPUE, 1995-96 to 2012-13.

Figure 29. Wolverine population parameter of juveniles per adult female ratio, 2002-03 to 2011-12.
Figure 30. Wolverine population parameter of age structure, 2002-03 to 2011-12.

Figure 31. Wolverine population parameter of sex ratios, 2002-03 to 2011-12.
Figure 32. Wolverine population parameter of median ages, 2002-03 to 2011-12.
BOBCAT

Bobcats are one of five furbearers that are required to be reported, registered and pelt tagged so that the actual number of harvested animals is known (Table 12). The bobcat harvest has always been managed through trapping district (TD) quotas with changes in trapper limits or removal of trapper limits in some districts. In the late 1990s trapper limits were increased in response to low trapper interest in bobcats because of relatively low pelt prices (Table 12) and later removed altogether in the eastern districts (TD 4 – 7). Adjustments in bobcat quotas have been used as a management tool to maintain healthy bobcat populations, while providing opportunity and flexibility to harvest bobcat by the trapping community. As bobcat populations in the state have increased over time, along with trapper interest, TD quotas have generally increased proportionately. The statewide total quota has increased from 1,415 in 1994-95 to 2,480 in 2008-09 and 1,970 during the 2012-13 season (Table 12). The bobcat harvest has increased from 1,052 in 1994-95 to 2,428 in 2008-09 and 1939 in 2012-13 (Fig. 33). Pelt prices have jumped dramatically beginning with the 2003-04 season and continue to remain at a high level through 2012-13 (Table 12). Examining the trend in CPUE it appears harvest effort has been stable to slightly declining, indicating that fewer bobcat are being taken per unit of effort (Fig.34).

The statewide trend in bobcat using CPUE is declining slightly (Fig.34) and a comparison of bobcat CPUE with the other terrestrial species is presented in Fig 52. Population monitoring for bobcat consists of analyzing harvest data and the collection and analysis of biological data from the harvest sample through mandatory skull turn-in from trappers to extract a tooth to determine age. Population parameters show a recent upward trend in juveniles per adult female (Fig. 35), an older age structure (Fig. 36), less than a 50% female sex ratio (Fig. 37), and an increasing trend in the median age of the total harvest (Fig. 38). Again, these parameters indicate a stable to somewhat declining population trend on a statewide basis.

Table 12. Bobcat harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 33. Statewide bobcat harvest by trapping district, 1994-95 to 2012-13

Figure 34. Statewide trend in bobcat harvest from CPUE, 1995-96 to 2012-13.
Figure 35. Bobcat population parameter of juvenile per adult female ratios, 2003-04 to 2012-13.

Figure 36. Bobcat population parameter of age structure, 2003-04 to 2012-13.
Figure 37. Bobcat population parameter of sex ratios, 2003-04 to 2012-13.

Figure 38. Bobcat population parameter of median ages, 2003-04 to 2012-13.
The statewide weasel harvest continues to remain relatively stable, although generally at a lower level during the past decade within a range of 200 to 500 animals with some years below this level (Table 13). The majority of weasels taken over most years is in northwestern Montana’s trapping district (TD) 1 (Fig. 39). The estimated 2012-13 statewide harvest of 301 animals was right at the 10-year average harvest, along with average pelt prices (Table 13). Despite the moderate harvest, average pelt prices offered for 2012-13 were higher than a decade ago.

Examining the trend in CPUE it appears harvest effort has generally increased over the past several years, indicating that more weasels are being taken per unit of effort (Fig. 40). Population monitoring activities for weasel are based completely on trapper harvest survey data, with CPUE considered to be an indicator of relative population trend, which could be considered stable, despite the decline in 2012-13. A comparison of CPUE for weasel with the other classified predator species is shown in Fig. 53.

Table 13. Weasel harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 39. Statewide weasel harvest by trapping district, 1994-95 to 2012-13.

Figure 40. Statewide trend in weasel harvest from CPUE, 1995-96 to 2012-13.
SKUNK

The statewide skunk harvest continues to remain stable, and within a general range of 1,500 to 3,000 animals with some years below or above this level (Table 14). The majority of skunks taken over most years come from the central and southern portions of Montana in trapping districts (TD) 4 and 5 (Fig. 41). The estimated 2012-13 statewide harvest of 1,711 animals was 26% below the 10-year average harvest, with a slightly lower than average pelt price (Table 14). A lower harvest than the previous several years may be a result of the pelt price offered for 2012-13 of $4.26 that was lower than average over the last decade.

Examining the trend in CPUE it appears harvest effort again declined during the 2012-13 season, indicating that fewer skunks are being taken per unit of effort (Fig.42). Population monitoring activities for skunk are based completely on trapper harvest survey data, with CPUE considered to be an indicator of relative population trend, which could be considered to be declining trend over previous several years. A comparison of CPUE for skunk with the other classified predator species is shown in Fig. 53.

Table 14. Skunk harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 41. Statewide skunk harvest by trapping district, 1994-95 to 2012-13.

Figure 42. Statewide trend in skunk harvest from CPUE, 1995-96 to 2012-13.
COYOTE

The statewide coyote harvest increased dramatically during the 2011-12 and again in the 2012-13 seasons from both trapping and hunting (Table 15). The majority of coyotes taken over most years are in the northcentral and eastern Montana trapping district’s (TD) 4, 6 and 7 (Fig. 43). The estimated 2012-13 statewide harvest of 20,131 animals was nearly 50% above the 10-year average harvest, along with the highest average pelt price of $93.98 (Table 15). This average coyote pelt prices offered for 2012-13 was the highest reported in the past 19 years.

Examining the trend in CPUE it appears harvest effort has generally remained the same, indicating an increasing coyote population and/or that there is an increase in the number of successful trappers and hunters (Fig. 40). Population monitoring activities for coyote are based completely on trapper harvest survey data, with CPUE considered to be an indicator of relative population trend, which could be considered stable. A comparison of CPUE for coyote with the other classified predator species is shown in Fig. 53.

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Figure 43. Statewide coyote harvest by trapping district, 1994-95 to 2012-2013.

Figure 44. Statewide trend in coyote harvest from CPUE, 1995-96 to 2012-13.
RED FOX

The statewide red fox harvest increased during the 2012-13 season following a general increasing harvest since 2009-10 after a declining trend in harvest over the prior 15 years (Table 16). The majority of the red fox taken over most years is across all trapping districts (TD) except TD 1 (Fig. 45). The estimated 2012-13 statewide harvest of 2,837 animals was only 22% above the 10-year average harvest level, despite the highest pelt price in 19 years of $65.78 (Table 16).

Examining the trend in CPUE it appears harvest effort has generally been stable with a decrease during 2011-12 that remained constant in 2012-13, indicating that fewer fox are being taken per unit of effort (Fig.46). Population monitoring activities for red fox are based completely on trapper harvest survey data, with CPUE considered to be an indicator of relative population trend, which could be considered as declining. A comparison of CPUE for fox with the other unclassified nongame species is shown in Fig. 54.

Table 16. Fox harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 45. Statewide red fox harvest by trapping district, 1994-95 to 2012-13.

Figure 46. Statewide trend in red fox harvest from CPUE. 1995-96 to 2012-13.
RACCOON

The statewide raccoon harvest had been declining but has increased in recent years, and jumped substantially during the 2011-12 and 2012-13 seasons relative to previous years (Table 17). The majority of raccoon harvested by trapping or hunting over most years has been in southern Montana’s trapping districts (TD) 3, 5 and to a lesser degree TD 7 (Fig. 47). The estimated 2012-13 statewide harvest of 6,557 animals is the third highest in 19 years and was 28% above the 10-year average harvest. This high harvest was accompanied by the highest average pelt price of $27.56 in 19 years (Table 17).

Examining the trend in CPUE it appears harvest effort has declined in the past couple of years, indicating that fewer raccoon are being taken per unit of effort (Fig.48). Population monitoring activities for raccoon are based completely on trapper harvest survey data, with CPUE considered to be an indicator of relative population trend, which could be considered as declining. However, with a higher raccoon harvest level in 2011-12 and 2012-13 with higher pelt prices may be an indication of increased interest in trapping and/or hunting for raccoons. A comparison of CPUE for raccoon with the other unclassified nongame species is shown in Fig. 54.

Table 17. Raccoon harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 47. Statewide raccoon harvest by trapping district, 1994-95 to 2012-13.

Figure 48. Statewide trend in raccoon harvest from CPUE, 1995-96 to 2012-13.
BADGER

The statewide badger harvest has been relatively inconsistent over the years with low harvest numbers during several previous years and then a significant increase during 2012-13 and the previous season (Table 18). The majority of the badgers taken over most years are in north central and southeastern Montana’s trapping districts (TD) 4 and 7 (Fig. 49). The estimated 2012-13 statewide harvest of 1,292 animals was 22% above the 10-year average harvest, along with a below average pelt price of $25.45 (Table 18). This higher harvest following several years of lower than average harvests occurred despite generally good pelt prices.

Examining the trend in CPUE it appears harvest effort has been stable to slightly declining in 2012-13, indicating that a relatively stable number of badger are being taken per unit of effort (Fig. 50). Population monitoring activities for badger are based completely on trapper harvest survey data, with CPUE considered to be an indicator of relative population trend, which could be considered as stable. A comparison of CPUE for badger with the other unclassified nongame species is shown in Fig. 54.

Table 18. Badger harvest, pelt price, and harvest quota if applicable, 1994-95 to 2012-13.

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Figure 49. Statewide badger harvest by trapping district, 1994-95 to 2012-13.

Figure 50. Statewide trend in badger harvest from CPUE, 1995-96 to 2012-13.
Figure 51. Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13.

Figure 52. Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13
Figure 53. Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13.

Figure 54. Statewide harvest trend comparison of species group from CPUE, 1995-96 to 2012-13.
Montana FWP Furbearer Program Related Bibliography in Chronological Order


Newby, F.E. 1957. Marten population status. Pages 63-70 in Completion report project W-49-R-6. Montana Fish and Game Department, Helena, MT.


