JOB COMPLETION REPORT

SURVEYS AND INVESTIGATIONS PROJECTS

as required by

Federal Aid in Wildlife Restoration Act

Illinois

Federal Aid Project No. W-49-R(25)
Study II: Estimating Game and Fur Harvest
Job No. 1: Hunter Mail Survey, 1977-78

by

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October 1, 1978
STATE OF ILLINOIS

PROJECT NO.: W-49-R(25) STUDY II JOB NO. I

OBJECTIVE: To determine the annual hunter harvest of small game in Illinois, relate this parameter to population trends and characteristics, habitat conditions, and other factors which may influence hunter harvest, and develop annual statewide hunting regulations.

PROCEDURES: Procedures used for the hunter harvest survey for the 1977-78 season were described by Hubert, G. F., Jr. (Job Completion Report, Proj. W-49-R(24), Job No. 1, Hunter mail survey, 1976-77, 32 pp., 1977). Resident hunting licenses for the 1977-78 season were printed in books of 50 licenses per book. Two mail survey address cards were attached inside the front cover of each book of licenses. Frequently, the vendor wrote the name and address of the first purchaser on both cards. Also, we noted father-son and husband-wife combinations as indicated by the similarity of surnames and addresses on many of the return cards.

The placing of the two survey address cards in the front of the license books reduced the size of the sample. The accuracy of estimates generated by such surveys is in proportion to the degree of randomness in the sample.

The questionnaire card for the 1977-78 hunter survey was similar to the one used for the 1976-77 survey (Fig. 1). Two
questions were changed on the 1977-78 survey card. Hunters were asked if they hunted deer with a bow and arrow during the 1977 season and if they had received training in hunting or firearms safety.

FINDINGS AND ANALYSIS:

1977-78 Hunting Seasons

The 1977-78 hunting seasons and bag limits for upland game (Table 1) were similar to previous years. Illinois waterfowl hunters benefited from a higher Canada goose quota and the state was zoned for duck hunting. The duck season in the southern zone began and closed two weeks later than in the northern zone. Raccoon season dates were adjusted in 1977 with later openings in both the north and south zones.

From a sample of 5,700 licensed resident hunters, 5,023 were mailed harvest survey cards. The Postal Service returned 194 questionnaires (3.86 percent) as undeliverable. A total of 2,862 useable replies were received, representing a response rate of 56.98 percent. This response rate was considerably lower than the previous year, 74.67 percent. A total of 12.96 percent of the hunters that purchased licenses did not hunt any of the 16 species listed on the questionnaire card during the 1977-78 season. The non-hunting segment represented 11.17 percent of the respondents in 1976.

The response to the question on bow hunting for deer in 1977, 13.21 percent of the respondents answered affirmatively. This response produced an estimated 56,142 bow hunters for deer. According to the Permit Office, 28,973 bow permits were issued or 1.94 times the projected estimate from this sample. The respondents answered this question incorrectly or hunted deer with a bow without obtaining a bow hunting permit.
Approximately 40 percent of the respondents indicated that they had received training in hunting or firearms safety. Most indicated such training was received while in the military services.

The response to the question concerning hunting with a varmint call produced an estimate of 28,815 such hunters. This projection was based on a positive response by 6.78 percent of the returns.

A summary of hunting effort and harvest for 1977-78 for the 16 game birds, mammals and waterfowl is presented in Table 2. Similar information for the 16 species or kinds of hunting is presented in Tables 3-18 for each of the 10 wildlife management units (Fig. 2) in Illinois.

The distribution of hunting effort and harvest were compiled for seven game species (Tables 18 and 19). Most license buyers hunted a few times and harvested and bagged few. Conversely, a small percentage of the hunters for each species of game animals harvested the highest percentage of that particular species. The returns indicated that 21 percent of the quail hunters harvested 66 percent of the reported kill.

Confidence intervals at the 95% level were calculated for statewide totals for number of hunters, average season bag and total harvest and presented in Table 21. The results of the hunter mail surveys for the past three years are presented in Table 22.

**RECOMMENDATION:**

It is recommended that the survey be continued to provide annual indices of hunting activities and success. A more random method of selecting hunters to include in the survey should be developed.
DATA AND REPORTS:

The data from which this report was compiled are on file in the Project Leader's office, 129 N. Kennedy, Vandalia, Illinois 62471.

PREPARED BY:                        APPROVED BY:

Jack A. Ellis
Surveys and Investigations
Division of Wildlife Resources

Thixton B. Miller,
Chief
Division of Wildlife Resources
Table 1. Illinois' regulations for migratory and small game, 1977-78.

<table>
<thead>
<tr>
<th>Species</th>
<th>Zone</th>
<th>Season duration</th>
<th>Limit Daily</th>
<th>Possession</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cottontail</td>
<td>Statewide</td>
<td>Nov. 12 - Jan. 15</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Squirrels</td>
<td>Northern</td>
<td>Aug. 1 - Nov.</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Southern</td>
<td>Sept. 1 - Nov.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobwhite</td>
<td>Statewide</td>
<td>Nov. 12 - Jan. 15</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Ring-necked Pheasant</td>
<td>Statewide</td>
<td>Nov. 12 - Jan. 15</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Gray Partridge</td>
<td>Statewide</td>
<td>Nov. 12 - Jan. 15</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Mourning Dove</td>
<td>Statewide</td>
<td>Sept. 1 - Nov. 9</td>
<td>12</td>
<td>24</td>
</tr>
<tr>
<td>Woodcock</td>
<td>Statewide</td>
<td>Oct. 15 - Dec. 19</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Crow</td>
<td>Statewide</td>
<td>July 1 - Aug. 15</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dec. 1 - Feb. 15</td>
<td></td>
<td></td>
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<tr>
<td>Ducks</td>
<td>Northern</td>
<td>Oct. 22 - Dec. 5</td>
<td>POINT SYSTEM</td>
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</tr>
<tr>
<td></td>
<td>Southern</td>
<td>Nov. 5 - Dec. 19</td>
<td></td>
<td></td>
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<tr>
<td>Geese</td>
<td>Statewide</td>
<td>Oct. 22 - Dec. 30</td>
<td>VARIED BY SPECIES</td>
<td></td>
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<tr>
<td>Raccoon</td>
<td>Northern</td>
<td>Nov. 15 - Jan. 19</td>
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<td>NONE</td>
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<tr>
<td></td>
<td>Southern</td>
<td>Nov. 25 - Jan. 26</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fox</td>
<td>Northern</td>
<td>Dec. 20 - Feb. 2</td>
<td>NONE</td>
<td>NONE</td>
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<tr>
<td></td>
<td>Southern</td>
<td>Nov. 17 - Jan. 13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coyote</td>
<td>Statewide</td>
<td>Sept. 1 - Feb. 28</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>Specie</td>
<td>Total Harvested</td>
<td>Harvested per Day</td>
<td>Days Harvested</td>
<td>Percent of Total Days</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
<td>----------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Coyote (Gun)</td>
<td>22,889</td>
<td>1,008</td>
<td>1,008</td>
<td>10.0</td>
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<tr>
<td>Grey Fox (Gun)</td>
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<td>2.52</td>
<td>4,070</td>
<td>0.62</td>
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<tr>
<td>Raccoon</td>
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<td>10.87</td>
<td>4,356</td>
<td>0.95</td>
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<tr>
<td>Goose</td>
<td>43,658</td>
<td>4.16</td>
<td>10,699</td>
<td>0.62</td>
</tr>
<tr>
<td>Duck</td>
<td>17,938</td>
<td>2.58</td>
<td>9,859</td>
<td>1.37</td>
</tr>
<tr>
<td>Crow</td>
<td>6,948</td>
<td>1.43</td>
<td>4,669</td>
<td>0.66</td>
</tr>
<tr>
<td>Grey Partridge</td>
<td>17,938</td>
<td>2.58</td>
<td>9,859</td>
<td>1.37</td>
</tr>
<tr>
<td>Pheasant</td>
<td>1,222</td>
<td>1.43</td>
<td>4,669</td>
<td>0.66</td>
</tr>
<tr>
<td>Bobwhite</td>
<td>1,222</td>
<td>1.43</td>
<td>4,669</td>
<td>0.66</td>
</tr>
<tr>
<td>Grey Squirrel</td>
<td>17,938</td>
<td>2.58</td>
<td>9,859</td>
<td>1.37</td>
</tr>
<tr>
<td>Fox Squirrel</td>
<td>1,222</td>
<td>1.43</td>
<td>4,669</td>
<td>0.66</td>
</tr>
<tr>
<td>Rabbit</td>
<td>1,222</td>
<td>1.43</td>
<td>4,669</td>
<td>0.66</td>
</tr>
</tbody>
</table>

Table 2: Summary of statewide data from hunter harvest survey, 1977-78 season (N=2,862)
Table 3. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Cottontails (N = 1,899)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>21,179</td>
<td>7.53</td>
<td>0.69</td>
<td>4.96</td>
<td>105,041</td>
<td>152,489</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>25,770</td>
<td>9.16</td>
<td>0.51</td>
<td>4.00</td>
<td>103,115</td>
<td>201,250</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>13,774</td>
<td>4.90</td>
<td>1.42</td>
<td>8.84</td>
<td>121,782</td>
<td>85,258</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>22,215</td>
<td>7.90</td>
<td>1.21</td>
<td>7.41</td>
<td>164,747</td>
<td>135,644</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>22,288</td>
<td>10.06</td>
<td>1.00</td>
<td>6.41</td>
<td>181,488</td>
<td>181,155</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>13,033</td>
<td>4.63</td>
<td>1.09</td>
<td>7.89</td>
<td>102,819</td>
<td>94,271</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>86,642</td>
<td>30.80</td>
<td>0.33</td>
<td>5.92</td>
<td>513,502</td>
<td>619,266</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>50,059</td>
<td>17.80</td>
<td>1.31</td>
<td>8.36</td>
<td>418,535</td>
<td>319,459</td>
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<tr>
<td>Wabash Border</td>
<td>9,182</td>
<td>3.26</td>
<td>1.20</td>
<td>9.37</td>
<td>86,077</td>
<td>71,221</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>9,626</td>
<td>3.42</td>
<td>1.32</td>
<td>11.94</td>
<td>114,967</td>
<td>86,883</td>
</tr>
<tr>
<td>Unknown</td>
<td>1,481</td>
<td>0.05</td>
<td>0.39</td>
<td>6.00</td>
<td>8,889</td>
<td>19,504</td>
</tr>
</tbody>
</table>
Table 4. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total harvest afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>13,320</td>
<td>7.54</td>
<td>1.33</td>
<td>7.51</td>
<td>100,166</td>
<td>75,006</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>8,288</td>
<td>4.69</td>
<td>0.89</td>
<td>5.20</td>
<td>43,119</td>
<td>48,525</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>11,248</td>
<td>6.36</td>
<td>1.36</td>
<td>9.93</td>
<td>111,872</td>
<td>81,960</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>19,980</td>
<td>11.31</td>
<td>1.42</td>
<td>12.36</td>
<td>247,304</td>
<td>174,423</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>17,464</td>
<td>9.88</td>
<td>1.29</td>
<td>7.77</td>
<td>135,877</td>
<td>104,890</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>8,140</td>
<td>4.61</td>
<td>1.21</td>
<td>9.13</td>
<td>74,383</td>
<td>61,544</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>46,768</td>
<td>26.47</td>
<td>1.19</td>
<td>8.69</td>
<td>406,741</td>
<td>339,969</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>35,076</td>
<td>19.85</td>
<td>1.08</td>
<td>8.37</td>
<td>293,980</td>
<td>273,100</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>6,512</td>
<td>3.68</td>
<td>1.03</td>
<td>9.75</td>
<td>63,567</td>
<td>61,544</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>8,711</td>
<td>4.93</td>
<td>0.89</td>
<td>7.44</td>
<td>65,048</td>
<td>73,231</td>
</tr>
<tr>
<td>Unknown</td>
<td>1,184</td>
<td>0.67</td>
<td>0.79</td>
<td>6.50</td>
<td>7,705</td>
<td>9,764</td>
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</tbody>
</table>
Table 5. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Gray squirrel (N = 793)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>9,013</td>
<td>7.69</td>
<td>0.71</td>
<td>3.70</td>
<td>33,429</td>
<td>47,337</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>6,501</td>
<td>5.55</td>
<td>0.55</td>
<td>3.39</td>
<td>22,039</td>
<td>39,941</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>4,876</td>
<td>4.16</td>
<td>0.78</td>
<td>5.97</td>
<td>29,139</td>
<td>37,278</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>15,661</td>
<td>13.37</td>
<td>1.00</td>
<td>9.00</td>
<td>141,110</td>
<td>140,385</td>
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<tr>
<td>Western Prairie/Forest</td>
<td>7,978</td>
<td>6.81</td>
<td>0.55</td>
<td>3.19</td>
<td>25,441</td>
<td>46,154</td>
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<tr>
<td>Central Sand Prairie</td>
<td>5,319</td>
<td>4.54</td>
<td>0.90</td>
<td>7.44</td>
<td>39,641</td>
<td>43,787</td>
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<td>Grand Prairie</td>
<td>20,389</td>
<td>17.40</td>
<td>0.61</td>
<td>4.69</td>
<td>95,701</td>
<td>156,657</td>
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<td>Southern Plain</td>
<td>31,322</td>
<td>26.73</td>
<td>1.14</td>
<td>8.92</td>
<td>279,559</td>
<td>245,119</td>
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<td>Wabash Border</td>
<td>5,171</td>
<td>4.41</td>
<td>0.92</td>
<td>9.77</td>
<td>50,587</td>
<td>54,882</td>
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<td>Shawnee Hills</td>
<td>9,751</td>
<td>8.32</td>
<td>1.30</td>
<td>9.64</td>
<td>94,073</td>
<td>72,190</td>
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<td>1,182</td>
<td>1.01</td>
<td>0.87</td>
<td>5.00</td>
<td>5,916</td>
<td>6,805</td>
</tr>
</tbody>
</table>
Table 6. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Bobwhites \((N = 917)\)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>6,972</td>
<td>5.12</td>
<td>0.58</td>
<td>5.96</td>
<td>41,595</td>
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<td>Northeast Moraine</td>
<td>3,412</td>
<td>2.50</td>
<td>0.32</td>
<td>1.52</td>
<td>5,199</td>
<td>16,423</td>
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<td>Mississippi Border-North</td>
<td>8,455</td>
<td>6.22</td>
<td>0.81</td>
<td>8.74</td>
<td>39.618</td>
<td>48,972</td>
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<td>Mississippi Border-South</td>
<td>14,537</td>
<td>10.69</td>
<td>1.17</td>
<td>6.34</td>
<td>92,252</td>
<td>78,858</td>
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<tr>
<td>Western Prairie/Forest</td>
<td>14,685</td>
<td>10.80</td>
<td>1.35</td>
<td>7.14</td>
<td>105,027</td>
<td>77,527</td>
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<td>Central Sand Prairie</td>
<td>5,637</td>
<td>4.14</td>
<td>1.90</td>
<td>17.24</td>
<td>97,302</td>
<td>51,339</td>
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<td>Grand Prairie</td>
<td>37,232</td>
<td>27.37</td>
<td>0.74</td>
<td>4.55</td>
<td>169,500</td>
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<td>Southern Plain</td>
<td>32,337</td>
<td>23.77</td>
<td>1.65</td>
<td>11.15</td>
<td>361,134</td>
<td>218,377</td>
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<td>Wabash Border</td>
<td>4,895</td>
<td>3.60</td>
<td>1.58</td>
<td>14.06</td>
<td>68,929</td>
<td>43,646</td>
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<td>Shawnee Hills</td>
<td>7,565</td>
<td>5.56</td>
<td>1.64</td>
<td>9.37</td>
<td>72,346</td>
<td>44,238</td>
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<td>297</td>
<td>0.22</td>
<td>0.18</td>
<td>4.00</td>
<td>1,188</td>
<td>6,510</td>
</tr>
</tbody>
</table>
Table 7. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

**Pheasants** (N = 1,216)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>20,210</td>
<td>11.27</td>
<td>0.51</td>
<td>3.92</td>
<td>79,056</td>
<td>153,811</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>34,667</td>
<td>19.32</td>
<td>0.42</td>
<td>2.98</td>
<td>103,199</td>
<td>245,206</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>2,655</td>
<td>1.48</td>
<td>0.23</td>
<td>1.89</td>
<td>5,005</td>
<td>21,697</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>9,146</td>
<td>5.10</td>
<td>0.40</td>
<td>1.92</td>
<td>17,519</td>
<td>43,840</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>13,424</td>
<td>7.48</td>
<td>0.40</td>
<td>2.45</td>
<td>32,829</td>
<td>81,438</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>4,426</td>
<td>2.47</td>
<td>0.34</td>
<td>1.53</td>
<td>6,772</td>
<td>19,616</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>85,267</td>
<td>47.54</td>
<td>0.34</td>
<td>2.24</td>
<td>190,352</td>
<td>564,123</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>6,786</td>
<td>3.78</td>
<td>0.33</td>
<td>2.00</td>
<td>13,544</td>
<td>41,165</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>295</td>
<td>0.16</td>
<td>0.66</td>
<td>1.00</td>
<td>294</td>
<td>446</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>148</td>
<td>0.08</td>
<td>0.13</td>
<td>4.00</td>
<td>589</td>
<td>4,458</td>
</tr>
<tr>
<td>Unknown</td>
<td>2,360</td>
<td>1.32</td>
<td>0.46</td>
<td>2.75</td>
<td>6,478</td>
<td>13,969</td>
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</tbody>
</table>
Table 8. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Gray Partridge (N=41)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total days afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>2,227</td>
<td>36.58</td>
<td>0.07</td>
<td>1.13</td>
<td>2,517</td>
<td>34,746</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>1,039</td>
<td>17.07</td>
<td>0.18</td>
<td>1.57</td>
<td>1,628</td>
<td>9,058</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>742</td>
<td>12.19</td>
<td>0.05</td>
<td>0.80</td>
<td>592</td>
<td>11,582</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>1,930</td>
<td>31.70</td>
<td>0.12</td>
<td>0.92</td>
<td>1,776</td>
<td>15,146</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>148</td>
<td>2.43</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>1,485</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>
Table 9. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>4,448</td>
<td>4.50</td>
<td>2.86</td>
<td>20.10</td>
<td>89,298</td>
<td>31,159</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>9,193</td>
<td>9.31</td>
<td>2.06</td>
<td>12.95</td>
<td>118,916</td>
<td>57,571</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>4,893</td>
<td>4.95</td>
<td>2.73</td>
<td>13.27</td>
<td>64,863</td>
<td>23,740</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>6,969</td>
<td>7.05</td>
<td>2.73</td>
<td>11.60</td>
<td>80,709</td>
<td>29,527</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>7,562</td>
<td>7.66</td>
<td>2.74</td>
<td>12.73</td>
<td>96,110</td>
<td>35,017</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>5,041</td>
<td>5.10</td>
<td>4.06</td>
<td>27.65</td>
<td>139,204</td>
<td>34,275</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>29,358</td>
<td>29.73</td>
<td>2.39</td>
<td>13.44</td>
<td>394,067</td>
<td>165,145</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>23,427</td>
<td>23.72</td>
<td>3.67</td>
<td>21.00</td>
<td>491,362</td>
<td>133,837</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>3,262</td>
<td>3.30</td>
<td>3.18</td>
<td>21.55</td>
<td>70,194</td>
<td>22,108</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>4,300</td>
<td>4.35</td>
<td>4.28</td>
<td>27.07</td>
<td>116,250</td>
<td>27,153</td>
</tr>
<tr>
<td>Unknown</td>
<td>296</td>
<td>0.30</td>
<td>9.98</td>
<td>30.00</td>
<td>8,885</td>
<td>890</td>
</tr>
</tbody>
</table>
Table 10. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>445</td>
<td>4.05</td>
<td>0.09</td>
<td>0.67</td>
<td>297</td>
<td>3415</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>297</td>
<td>2.70</td>
<td>0.03</td>
<td>0.50</td>
<td>148</td>
<td>5346</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>148</td>
<td>1.35</td>
<td>0.07</td>
<td>1.00</td>
<td>148</td>
<td>2079</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>1,039</td>
<td>9.45</td>
<td>0.63</td>
<td>1.71</td>
<td>1,780</td>
<td>2821</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>445</td>
<td>4.05</td>
<td>0.18</td>
<td>2.00</td>
<td>890</td>
<td>4900</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>1,039</td>
<td>9.45</td>
<td>0.23</td>
<td>2.14</td>
<td>2,225</td>
<td>9504</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>2,970</td>
<td>27.03</td>
<td>0.21</td>
<td>1.15</td>
<td>3,411</td>
<td>16038</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>2,524</td>
<td>22.97</td>
<td>0.60</td>
<td>4.76</td>
<td>12,013</td>
<td>20047</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>742</td>
<td>6.75</td>
<td>0.31</td>
<td>2.60</td>
<td>1928</td>
<td>6237</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>1,336</td>
<td>12.16</td>
<td>0.47</td>
<td>1.00</td>
<td>1335</td>
<td>2821</td>
</tr>
<tr>
<td>Unknown</td>
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</tr>
</tbody>
</table>
Table 11. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>2229</td>
<td>12.61</td>
<td>1.18</td>
<td>5.20</td>
<td>11,578</td>
<td>9801</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>3417</td>
<td>19.32</td>
<td>1.29</td>
<td>6.04</td>
<td>20,633</td>
<td>16,037</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>1189</td>
<td>6.72</td>
<td>1.83</td>
<td>10.75</td>
<td>12,766</td>
<td>6979</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>891</td>
<td>5.04</td>
<td>0.35</td>
<td>2.83</td>
<td>2,523</td>
<td>7128</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>1486</td>
<td>8.40</td>
<td>0.46</td>
<td>2.40</td>
<td>3,562</td>
<td>7722</td>
</tr>
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<td>Central Sand Prairie</td>
<td>594</td>
<td>3.36</td>
<td>3.44</td>
<td>13.75</td>
<td>8,164</td>
<td>2376</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>5052</td>
<td>28.57</td>
<td>0.71</td>
<td>3.74</td>
<td>18,852</td>
<td>26,432</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>1783</td>
<td>10.84</td>
<td>1.43</td>
<td>4.42</td>
<td>7,867</td>
<td>5494</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>594</td>
<td>3.36</td>
<td>1.25</td>
<td>2.50</td>
<td>1,484</td>
<td>1188</td>
</tr>
<tr>
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<td>446</td>
<td>2.52</td>
<td>0.61</td>
<td>3.67</td>
<td>1,633</td>
<td>2673</td>
</tr>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>
Table 12. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of average daily bag</th>
<th>Average harvest bag</th>
<th>Estimated total harvest</th>
<th>Estimated total daily harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>7558</td>
<td>9.98</td>
<td>0.80</td>
<td>8.18</td>
<td>61,787</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>8744</td>
<td>11.54</td>
<td>0.85</td>
<td>6.54</td>
<td>57,194</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>6076</td>
<td>8.02</td>
<td>0.98</td>
<td>14.32</td>
<td>86,977</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>10,671</td>
<td>14.09</td>
<td>1.13</td>
<td>9.51</td>
<td>101,497</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>4298</td>
<td>5.68</td>
<td>0.65</td>
<td>7.17</td>
<td>30,820</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>3260</td>
<td>4.30</td>
<td>1.35</td>
<td>17.86</td>
<td>58,231</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>20,008</td>
<td>26.42</td>
<td>0.87</td>
<td>5.94</td>
<td>118,834</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>10,967</td>
<td>14.48</td>
<td>1.12</td>
<td>11.91</td>
<td>130,539</td>
</tr>
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<td>0.59</td>
<td>0.87</td>
<td>2.33</td>
<td>1037</td>
</tr>
<tr>
<td>Shawnee Hills</td>
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<td>1.34</td>
<td>12.91</td>
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<tr>
<td>Unknown</td>
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<td>0.39</td>
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<td>12.00</td>
<td>3556</td>
</tr>
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</table>
Table 13. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Geese \((N = 294)\)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total on field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>2821</td>
<td>6.46</td>
<td>0.09</td>
<td>1.11</td>
<td>3,117</td>
<td>35,788</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>2376</td>
<td>5.44</td>
<td>0.17</td>
<td>0.88</td>
<td>2,078</td>
<td>12,028</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>1485</td>
<td>3.40</td>
<td>0.05</td>
<td>0.80</td>
<td>1,188</td>
<td>22,571</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>5346</td>
<td>12.24</td>
<td>0.26</td>
<td>2.03</td>
<td>10,837</td>
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</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>1485</td>
<td>3.40</td>
<td>0.04</td>
<td>0.20</td>
<td>297</td>
<td>8,316</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>891</td>
<td>2.04</td>
<td>0.37</td>
<td>1.50</td>
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<td>3,564</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>6385</td>
<td>14.62</td>
<td>0.17</td>
<td>0.88</td>
<td>5,641</td>
<td>32,818</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>11880</td>
<td>27.21</td>
<td>0.54</td>
<td>3.69</td>
<td>44,090</td>
<td>80,782</td>
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<tr>
<td>Wabash Border</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>10989</td>
<td>25.17</td>
<td>0.68</td>
<td>3.20</td>
<td>35,183</td>
<td>51,825</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 14. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Raccoons \( (N = 311) \)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total days afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>5,494</td>
<td>11.90</td>
<td>0.97</td>
<td>9.86</td>
<td>54,222</td>
<td>55,686</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>1,039</td>
<td>2.25</td>
<td>0.67</td>
<td>7.29</td>
<td>7,576</td>
<td>11,286</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>3,564</td>
<td>7.72</td>
<td>1.07</td>
<td>11.71</td>
<td>41,744</td>
<td>39,054</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>4,900</td>
<td>10.61</td>
<td>0.76</td>
<td>9.12</td>
<td>44,715</td>
<td>58,656</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>6,831</td>
<td>14.79</td>
<td>1.20</td>
<td>7.70</td>
<td>52,588</td>
<td>43,806</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>1,039</td>
<td>2.25</td>
<td>0.55</td>
<td>6.14</td>
<td>6,388</td>
<td>11,583</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>12,919</td>
<td>27.97</td>
<td>0.71</td>
<td>6.24</td>
<td>80,665</td>
<td>113,302</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>6,682</td>
<td>14.47</td>
<td>0.68</td>
<td>5.93</td>
<td>39,664</td>
<td>58,656</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>1,633</td>
<td>3.54</td>
<td>0.66</td>
<td>9.00</td>
<td>14,707</td>
<td>22,126</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>2,079</td>
<td>4.50</td>
<td>0.73</td>
<td>6.86</td>
<td>14,261</td>
<td>19,453</td>
</tr>
<tr>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 15. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>295</td>
<td>1.12</td>
<td>0.08</td>
<td>0.77</td>
<td>2,950</td>
<td>37,692</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>3,839</td>
<td>14.61</td>
<td>0.09</td>
<td>0.71</td>
<td>738</td>
<td>8,162</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>1,034</td>
<td>3.93</td>
<td>0.08</td>
<td>0.56</td>
<td>1,328</td>
<td>16,472</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>2,363</td>
<td>8.99</td>
<td>0.23</td>
<td>1.50</td>
<td>3,983</td>
<td>16,917</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>2,658</td>
<td>10.11</td>
<td>0.29</td>
<td>1.19</td>
<td>2,803</td>
<td>9,646</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>2,363</td>
<td>8.99</td>
<td>0.23</td>
<td>1.80</td>
<td>1,328</td>
<td>5,639</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>738</td>
<td>2.81</td>
<td>0.15</td>
<td>1.44</td>
<td>12,538</td>
<td>80,430</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>8,712</td>
<td>33.14</td>
<td>0.07</td>
<td>0.80</td>
<td>2,360</td>
<td>31,757</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>2,953</td>
<td>11.23</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>2,968</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>295</td>
<td>1.12</td>
<td>0.07</td>
<td>0.57</td>
<td>590</td>
<td>8,162</td>
</tr>
<tr>
<td>Unknown</td>
<td>1,034</td>
<td>3.93</td>
<td>0.99</td>
<td>1.00</td>
<td>295</td>
<td>297</td>
</tr>
</tbody>
</table>
Table 16. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Gray fox  \((N = 72)\)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>1,485</td>
<td>13.89</td>
<td>0.02</td>
<td>0.30</td>
<td>446</td>
<td>20,616</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>445</td>
<td>4.16</td>
<td>0.05</td>
<td>0.67</td>
<td>297</td>
<td>6,388</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>742</td>
<td>6.94</td>
<td>0.02</td>
<td>0.20</td>
<td>148</td>
<td>8,130</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>742</td>
<td>6.94</td>
<td>0.10</td>
<td>1.20</td>
<td>891</td>
<td>8,711</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>445</td>
<td>4.16</td>
<td>0.08</td>
<td>0.33</td>
<td>148</td>
<td>1,742</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>445</td>
<td>4.16</td>
<td>0.07</td>
<td>1.00</td>
<td>445</td>
<td>6,388</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>2,821</td>
<td>26.39</td>
<td>0.02</td>
<td>0.42</td>
<td>1,188</td>
<td>55,751</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>2,227</td>
<td>20.83</td>
<td>0.07</td>
<td>0.60</td>
<td>1,336</td>
<td>18,293</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>445</td>
<td>4.16</td>
<td>0.02</td>
<td>0.67</td>
<td>297</td>
<td>11,615</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>891</td>
<td>8.33</td>
<td>0.01</td>
<td>0.17</td>
<td>148</td>
<td>12,195</td>
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<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 17. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day: afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>2,673</td>
<td>11.69</td>
<td>0.04</td>
<td>0.28</td>
<td>744</td>
<td>17,522</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>445</td>
<td>1.94</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>3,118</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>3,118</td>
<td>13.63</td>
<td>0.22</td>
<td>1.86</td>
<td>5,802</td>
<td>25,689</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>2,079</td>
<td>9.09</td>
<td>0.17</td>
<td>0.93</td>
<td>1,934</td>
<td>11,582</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>3,118</td>
<td>13.63</td>
<td>0.23</td>
<td>1.19</td>
<td>3,720</td>
<td>15,889</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>297</td>
<td>1.30</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>2,227</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>4,603</td>
<td>20.13</td>
<td>0.17</td>
<td>1.19</td>
<td>5,505</td>
<td>31,778</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>4,306</td>
<td>18.83</td>
<td>0.21</td>
<td>1.24</td>
<td>5,356</td>
<td>25,095</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>1,039</td>
<td>4.54</td>
<td>0.11</td>
<td>1.00</td>
<td>1,041</td>
<td>9,058</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>1,188</td>
<td>5.20</td>
<td>0.08</td>
<td>0.50</td>
<td>595</td>
<td>7,870</td>
</tr>
<tr>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 18. Summary of hunting effort and success in wildlife management units in Illinois in 1977-78 for the species listed below. The sample is in parenthesis.

Canid Chasers (Fox and Coyote
(N = 31)

<table>
<thead>
<tr>
<th>Wildlife management unit</th>
<th>Estimated number of hunters</th>
<th>Percent of hunting pressure</th>
<th>Average daily bag</th>
<th>Average season bag</th>
<th>Estimated total harvest</th>
<th>Estimated total day afield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwest Hills</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Northeast Moraine</td>
<td>297</td>
<td>6.45</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>3,712</td>
</tr>
<tr>
<td>Mississippi Border-North</td>
<td>148</td>
<td>3.22</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,633</td>
</tr>
<tr>
<td>Mississippi Border-South</td>
<td>594</td>
<td>12.90</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>7,276</td>
</tr>
<tr>
<td>Western Prairie/Forest</td>
<td>742</td>
<td>16.12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>13,364</td>
</tr>
<tr>
<td>Central Sand Prairie</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Grand Prairie</td>
<td>1,039</td>
<td>22.57</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>24,054</td>
</tr>
<tr>
<td>Southern Plain</td>
<td>1,485</td>
<td>32.26</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>18,857</td>
</tr>
<tr>
<td>Wabash Border</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Shawnee Hills</td>
<td>297</td>
<td>6.45</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>742</td>
</tr>
<tr>
<td>Unknown</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 19. Distribution of harvest among hunters for seven game species in Illinois, 1977-78, from post-season resident mail survey.

<table>
<thead>
<tr>
<th>Total season bag</th>
<th>Percent of hunters pursuing species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fox Rabbit</td>
</tr>
<tr>
<td>0</td>
<td>18.97</td>
</tr>
<tr>
<td>2</td>
<td>14.54</td>
</tr>
<tr>
<td>3</td>
<td>7.08</td>
</tr>
<tr>
<td>4</td>
<td>6.87</td>
</tr>
<tr>
<td>5</td>
<td>5.75</td>
</tr>
<tr>
<td>6</td>
<td>4.90</td>
</tr>
<tr>
<td>7</td>
<td>2.24</td>
</tr>
<tr>
<td>8</td>
<td>3.68</td>
</tr>
<tr>
<td>9</td>
<td>0.80</td>
</tr>
<tr>
<td>10</td>
<td>5.75</td>
</tr>
<tr>
<td>11</td>
<td>0.32</td>
</tr>
<tr>
<td>12</td>
<td>2.93</td>
</tr>
<tr>
<td>13</td>
<td>0.26</td>
</tr>
<tr>
<td>14</td>
<td>0.90</td>
</tr>
<tr>
<td>15-19</td>
<td>3.68</td>
</tr>
<tr>
<td>20-24</td>
<td>4.31</td>
</tr>
<tr>
<td>25-29</td>
<td>2.08</td>
</tr>
<tr>
<td>30-34</td>
<td>1.12</td>
</tr>
<tr>
<td>35-39</td>
<td>0.64</td>
</tr>
<tr>
<td>40-44</td>
<td>0.37</td>
</tr>
<tr>
<td>45-49</td>
<td>0.21</td>
</tr>
<tr>
<td>≥50</td>
<td>1.65</td>
</tr>
</tbody>
</table>
Table 20. Distribution of hunting effort for seven game species in Illinois, 1977-78, from post-season resident hunter mail survey.

<table>
<thead>
<tr>
<th>Number of hunts</th>
<th>Percentage of hunters pursuing species</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rabbit</td>
</tr>
<tr>
<td>1</td>
<td>16.20</td>
</tr>
<tr>
<td>2</td>
<td>15.02</td>
</tr>
<tr>
<td>3</td>
<td>11.72</td>
</tr>
<tr>
<td>4</td>
<td>9.06</td>
</tr>
<tr>
<td>5</td>
<td>8.20</td>
</tr>
<tr>
<td>6</td>
<td>5.86</td>
</tr>
<tr>
<td>7</td>
<td>3.52</td>
</tr>
<tr>
<td>8</td>
<td>4.10</td>
</tr>
<tr>
<td>9</td>
<td>1.22</td>
</tr>
<tr>
<td>10</td>
<td>7.51</td>
</tr>
<tr>
<td>11</td>
<td>0.48</td>
</tr>
<tr>
<td>12</td>
<td>1.60</td>
</tr>
<tr>
<td>13</td>
<td>0.32</td>
</tr>
<tr>
<td>14</td>
<td>1.22</td>
</tr>
<tr>
<td>15-19</td>
<td>4.05</td>
</tr>
<tr>
<td>20-24</td>
<td>5.27</td>
</tr>
<tr>
<td>25-29</td>
<td>1.44</td>
</tr>
<tr>
<td>30-34</td>
<td>1.86</td>
</tr>
<tr>
<td>35-39</td>
<td>0.48</td>
</tr>
<tr>
<td>40-44</td>
<td>0.37</td>
</tr>
<tr>
<td>45-49</td>
<td>0.05</td>
</tr>
<tr>
<td>≥ 50</td>
<td>0.43</td>
</tr>
</tbody>
</table>
Table 21. Estimated number of resident hunters, average season bag, and total harvest by species in Illinois, 1977-78. (N=2,862)

<table>
<thead>
<tr>
<th>Species</th>
<th>Estimated number of hunters</th>
<th>Estimated average season bag</th>
<th>Estimated total harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit</td>
<td>281,254 ± 7,517(^{a})</td>
<td>6.83 ± 0.48(^{a})</td>
<td>1,920,964 ± 144,372(^{a})</td>
</tr>
<tr>
<td>Fox Squirrel</td>
<td>176,712 ± 7,831</td>
<td>8.77 ± 0.71</td>
<td>1,549,764 ± 143,267</td>
</tr>
<tr>
<td>Gray Squirrel</td>
<td>117,164 ± 7,099</td>
<td>6.97 ± 0.68</td>
<td>816,637 ± 93,997</td>
</tr>
<tr>
<td>Bobwhite</td>
<td>136,023 ± 7,412</td>
<td>7.98 ± 1.08</td>
<td>1,087,115 ± 158,534</td>
</tr>
<tr>
<td>Pheasant</td>
<td>179,385 ± 7,847</td>
<td>2.54 ± 0.24</td>
<td>455,637 ± 46,660</td>
</tr>
<tr>
<td>Gray Partridge</td>
<td>6,088 ± 1,888</td>
<td>1.07 ± 0.50</td>
<td>6,514 ± 3,643</td>
</tr>
<tr>
<td>Dove</td>
<td>98,750 ± 6,710</td>
<td>16.91 ± 2.00</td>
<td>1,669,862 ± 228,091</td>
</tr>
<tr>
<td>Woodcock</td>
<td>10,989 ± 2,521</td>
<td>2.20 ± 1.34</td>
<td>24,175 ± 15,074</td>
</tr>
<tr>
<td>Crow</td>
<td>17,671 ± 3,171</td>
<td>5.04 ± 1.58</td>
<td>89,063 ± 32,069</td>
</tr>
<tr>
<td>Ducks</td>
<td>75,734 ± 6,080</td>
<td>9.17 ± 1.43</td>
<td>694,480 ± 121,961</td>
</tr>
<tr>
<td>Geese</td>
<td>43,658 ± 4,824</td>
<td>2.37 ± 0.55</td>
<td>103,470 ± 21,498</td>
</tr>
<tr>
<td>Raccoon</td>
<td>46,182 ± 4,944</td>
<td>7.72 ± 1.17</td>
<td>356,530 ± 66,249</td>
</tr>
<tr>
<td>Red Fox (Gun)</td>
<td>26,284 ± 3,827</td>
<td>1.10 ± 0.32</td>
<td>28,912 ± 9,527</td>
</tr>
<tr>
<td>Gray Fox (Gun)</td>
<td>10,691 ± 2,488</td>
<td>0.50 ± 0.17</td>
<td>5,345 ± 2,174</td>
</tr>
<tr>
<td>Coyote (Gun)</td>
<td>22,868 ± 3,585</td>
<td>1.08 ± 0.34</td>
<td>24,698 ± 8,777</td>
</tr>
<tr>
<td>Canid Chasers</td>
<td>4,603 ± 1,645</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

\(^{a}\) 95% confidence interval.
<table>
<thead>
<tr>
<th></th>
<th>1976-77</th>
<th>1977-78</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gray Partridge</td>
<td>1976-77</td>
<td>1977-78</td>
</tr>
<tr>
<td>Pheasant</td>
<td>1977-78</td>
<td>1976-77</td>
</tr>
<tr>
<td>Bobwhite</td>
<td>1975-76</td>
<td>1977-78</td>
</tr>
<tr>
<td>Grouse Squatrel</td>
<td>1977-78</td>
<td>1975-76</td>
</tr>
<tr>
<td>Rabbit</td>
<td>1977-78</td>
<td>1976-77</td>
</tr>
</tbody>
</table>

**Table 22.** Estimated days from resident Illinois hunters for years 1975-76.
<table>
<thead>
<tr>
<th>Year</th>
<th>Total Days</th>
<th>Harvested</th>
<th>Bag Average</th>
<th>Bag Harvest</th>
<th>Harvested Bag</th>
<th>Total Bag</th>
<th>Harvested Bag</th>
<th>Bag Harvest</th>
<th>Harvested Bag</th>
<th>Bag Harvest</th>
<th>Harvested Bag</th>
<th>Bag Harvest</th>
<th>Harvested Bag</th>
<th>Bag Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>1976-77</td>
<td>1,669.862</td>
<td>16.91</td>
<td>2.38</td>
<td>8.99</td>
<td>2.00</td>
<td>0.55</td>
<td>5.32</td>
<td>17.02</td>
<td>3.33</td>
<td>2.88</td>
<td>98.750</td>
<td>108.086</td>
<td>111.032</td>
<td></td>
</tr>
<tr>
<td>1977-78</td>
<td>1,669.862</td>
<td>16.91</td>
<td>2.38</td>
<td>8.99</td>
<td>2.00</td>
<td>0.55</td>
<td>5.32</td>
<td>17.02</td>
<td>3.33</td>
<td>2.88</td>
<td>98.750</td>
<td>108.086</td>
<td>111.032</td>
<td></td>
</tr>
</tbody>
</table>

*Table 22 (continued)*
<table>
<thead>
<tr>
<th>Year</th>
<th>Total Days</th>
<th>Harvest Days</th>
<th>Barton</th>
<th>Bay</th>
<th>Harvest</th>
<th>Daily</th>
<th>Expected</th>
<th>Expected</th>
<th>Hunters</th>
<th>Total</th>
<th>Expected</th>
<th>Expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>1976-77</td>
<td>69.69</td>
<td>131.75</td>
<td>8.6</td>
<td>8.45</td>
<td>6.55</td>
<td>24.698</td>
<td>1.08</td>
<td>0.05</td>
<td>0.5</td>
<td>7</td>
<td>8.338</td>
<td>0.94</td>
</tr>
<tr>
<td>1977-78</td>
<td>149.80</td>
<td>251.55</td>
<td>9.5</td>
<td>9.44</td>
<td>7.0</td>
<td>34.46</td>
<td>1.07</td>
<td>0.07</td>
<td>0.7</td>
<td>8</td>
<td>8.49</td>
<td>0.94</td>
</tr>
</tbody>
</table>

**Table 22 (continued)**
ILLINOIS DEPARTMENT OF CONSERVATION
SMALL GAME HUNTING SURVEY
1977-78 SEASON

1. Did you hunt deer in Illinois with BOW AND ARROW during the 1977 season? Yes [ ] No [ ]
2. Have you ever received any group training in hunting or firearms safety? Yes [ ] No [ ]
3. Did you hunt any furbearers in Illinois during the 1977-78 season with a VARMINT call? Yes [ ] No [ ]
4. Did you hunt any of the game listed below in Illinois during the 1977-78 season? Yes [ ] No [ ]

PLEASE FILL IN ALL THREE BLANKS FOR EACH KIND OF GAME YOU HUNTED:

<table>
<thead>
<tr>
<th>Number killed during season</th>
<th>County where you hunted most for each kind of game</th>
<th>Number of days hunted</th>
</tr>
</thead>
<tbody>
<tr>
<td>RABBITS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOX SQUIRRELS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRAY SQUIRRELS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QUAIL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHEASANT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUN. PARTRIDGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DOVE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WOODCOCK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(NOT Groundhog or Woodchuck)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CROW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DUCKS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEESE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RACCOON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RED FOX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRAY FOX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COYOTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOX or COYOTE CHASING WITH DOGS FOR SPORT ONLY AND NOT TO KILL:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INSTRUCTIONS

Please fill in the form on the left side of this card for the 1977-78 Illinois hunting season. If you did not hunt any of the game listed in Illinois, check the first four questions and return the card.

REPORT ONLY YOUR KILL. DO NOT report the kill of others with whom you may have hunted.

Do NOT report game killed or days hunted on shooting areas or preserves where a fee is charged for game taken.

Fill in the number of days on which you hunted each kind of game listed including your unsuccessful days.

If you hunted for more than one kind of game on a particular day, count it a day for EACH kind of game you hunted.

If you can't remember the exact figures, give your best estimate.

Fill in only the blanks that apply to you. Leave all other blanks unmarked.

Your comments are welcomed, but please send them in a separate letter to receive proper attention.

THANK YOU FOR YOUR COOPERATION!!!
NO POSTAGE REQUIRED

Figure 1. Questionnaire form for post-season harvest survey of licensed Illinois resident hunters, 1977-78 season.
Figure 2. Wildlife management units and area (square miles) in Illinois.