

Trends in Resident and Non-resident Hunter Effort and Harvest for Feral Hog in Mississippi: 2000-01 to the 2010-11 Seasons

Prepared for the

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INTRODUCTION & METHODS

Self-administered mail surveys of resident hunters have been conducted intermittently since the 1947-48 Mississippi hunting season to estimate hunter effort and game harvest in Mississippi, with annual surveys (unless noted) starting in the 1980-1981 hunting season. Non-resident hunter surveys began on an annual basis in the 1994-95 hunting season (unless noted).

Annual surveys were completed by the Human Dimensions & Conservation Law Enforcement Laboratory in the Forest & Wildlife Research Center at Mississippi State University from 2001 thru 2011 using mail survey methodology prescribed by Dillman (2000). This entailed an introductory letter being sent to hunters followed one-week later by another letter, questionnaire, and business reply envelope (i.e., a complete packet). Ten days after that, hunters were sent a reminder/thank you postcard. Non-respondents were sent a complete packet as necessary three and seven weeks after the postcard.

These surveys provide information to biologists and researchers to determine trends in total harvest, average seasonal harvest per hunter, average daily harvest per hunter, average persondays spent afield, total person-days spent afield, percent successful hunters, and the proportion of hunters seeking 13 different game species and feral hog. This report includes mail survey data for feral hog (*Sus scrofa*) spanning from the 2000-01 hunting season to the 2010-11 hunting season for resident and non-resident hunters.

This document will be updated annually with most recent data and will evolve to include other measures and information as that information is extracted from archived files. This report does not attempt to determine and describe trends in hunter effort and harvest. It is meant to provide the reader with the data for these estimates in an organized manner.

LITERATURE CITED

Dillman, D.A. 2000. *Mail and Internet Surveys: The Tailored Design Method*. 2nd Edition. New York: John Wiley and Sons, Inc.

RESULTS

TABLE 1. Mississippi feral hog hunting effort and harvest trends for licensed resident hunters (2000 to the Present)

| | TOTAL HARVEST | SE of TOTAL HARVEST | AVERAGE DAILY KILL | AVERAGE SEASONAL HARVEST | PERCENT SUCCESSFUL HUNTERS | TOTAL MAN- DAYS | AVERAGE SEASONAL DAYS HUNTING | TOTAL HUNTERS | PERCENT OF TOTAL LICENCEES |
|------|------------------|---------------------------|--------------------------|--------------------------------|----------------------------------|-----------------------|----------------------------------------|------------------|----------------------------------|
| 2001 | 28,836 | 3,732.39 | 0.21 | 1.69 | 53.6 | 123,046 | 7.44 | 17,071 | 8.4 |
| 2002 | 15,669 | 3,257.04 | 0.25 | 2.16 | 70.7 | 45,186 | 7.61 | 7,254 | 3.6 |
| 2003 | 27,181 | 8,211.77 | 0.39 | 3.23 | 79.7 | 61,630 | 8.68 | 8,416 | 4.5 |
| 2004 | 39,380 | 28,638 | 0.13 | 6.62 | 73.8 | 42,249 | 9.25 | 5,950 | 3.2 |
| 2005 | 11,421 | 3,167 | 0.09 | 1.45 | 55 | 103,836 | 15.41 | 7,876 | 4.2 |
| 2006 | 29,254 | 5,413 | 0.26 | 2.96 | 75 | 85,125 | 9.92 | 9,854 | 5.6 |
| 2007 | 11,498 | 2,934 | 0.89 | 1.9 | 67.3 | 50,005 | 10.17 | 5,536 | 3.1 |
| 2008 | 65,635 | 19,799 | 0.48 | 7.56 | 78.8 | 120,202 | 14.92 | 8,679 | 4.8 |
| 2009 | 23,865 | 6,132 | 0.29 | 2.96 | 74.5 | 62,603 | 9.91 | 8,004 | 4.5 |
| 2010 | 30,102 | 8,312 | 0.31 | 3.65 | 86.2 | 74,499 | 11.29 | 7,613 | 4.6 |
| 2011 | 64,197 | 17,699 | 0.38 | 4.58 | 75.5 | 111,542 | 9.73 | 14,022 | 8.4 |

(A) Calculated as a percent of small game license holders only

Figure 1. Trends in total harvest of feral hog for licensed resident hunters (2000 to the Present)

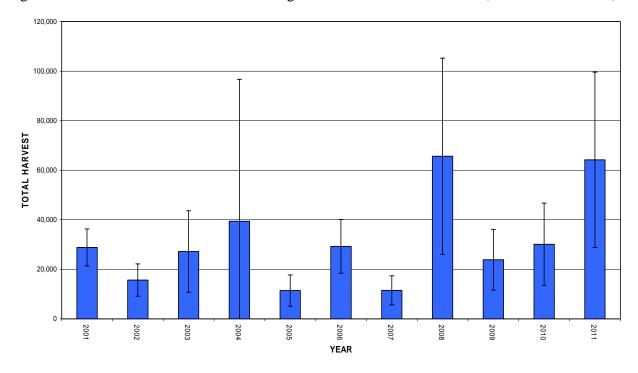


Figure 2. Trends in average daily kill of feral hog for licensed resident hunters (2000 to the Present)

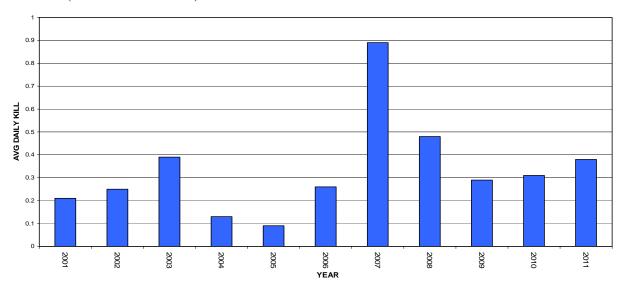


Figure 3. Trends in average seasonal harvest of feral hog for licensed resident hunters (2000 to the Present)

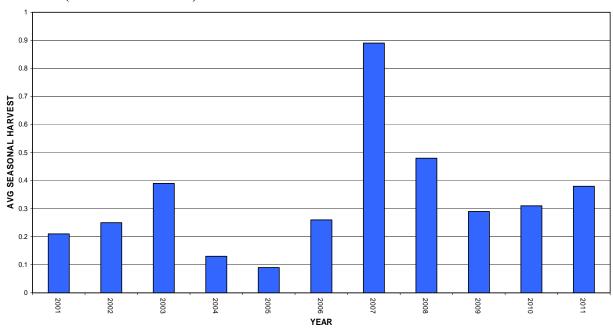


Figure 4. Trends in percent successful feral hog hunters for licensed resident hunters (2000 to the Present)

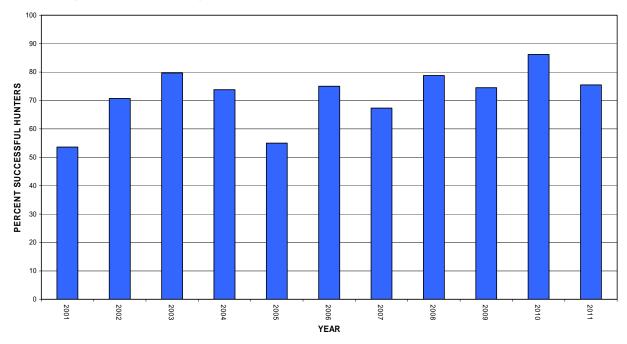


Figure 5. Trends in total man days feral hog hunting for licensed resident hunters (2000 to the Present)

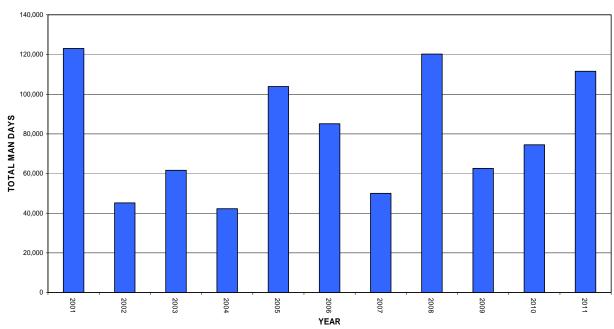


Figure 6. Trends in average seasonal days feral hog hunting for licensed resident hunters (2000 to the Present)

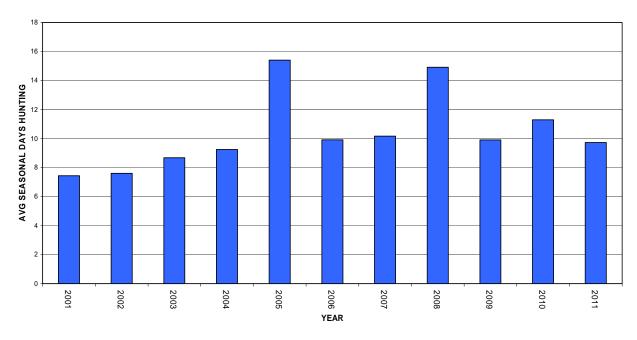
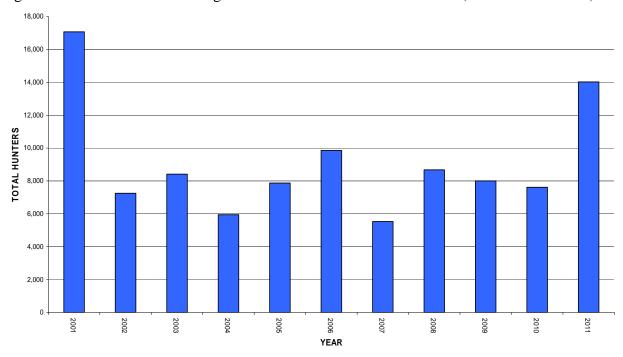
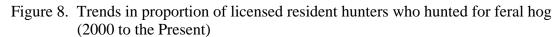


Figure 7. Trends in total feral hog hunters for licensed resident hunters (2000 to the Present)





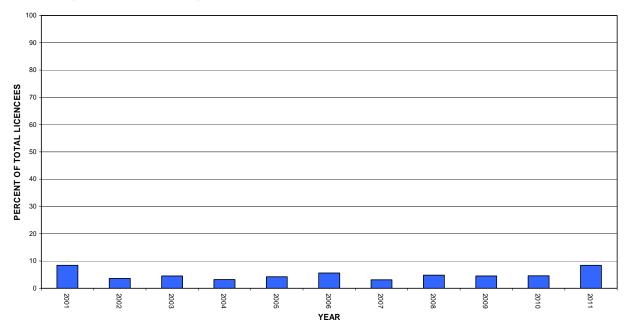


TABLE 2. Mississippi feral hog hunting effort and harvest trends for licensed non-resident hunters (2000 to the Present)

| | TOTAL HARVEST | SE of TOTAL HARVEST | AVERAGE DAILY KILL | AVERAGE SEASONAL HARVEST | PERCENT SUCCESSFUL HUNTERS | TOTAL MAN-DAYS | AVERAGE SEASONAL DAYS HUNTING | TOTAL HUNTERS | PERCENT OF TOTAL LICENCEES (A) |
|------|------------------|---------------------------|--------------------------|--------------------------------|----------------------------------|-------------------|----------------------------------------|------------------|-----------------------------------------|
| 2001 | 2,489 | 323.07 | 0.12 | 1.22 | 53.3 | 18,948 | 9.76 | 2,035 | 5.9 |
| 2002 | 1,496 | 273.36 | 0.09 | 1.39 | 62.5 | 11,867 | 13.37 | 1,077 | 3 |
| 2003 | 3,303.41 | 959.8 | 0.4 | 3.75 | 86.1 | 5,341 | 9.82 | 881 | 2.7 |
| 2004 | 4,480 | 1,647 | 0.26 | 4.82 | 85.5 | 8,880 | 13.03 | 930 | 3 |
| 2005 | 3,288 | 830 | 0.2 | 2.48 | 75.9 | 10,270 | 10.48 | 1,280 | 3.9 |
| 2006 | 2,328 | 698 | 0.21 | 2.13 | 68.1 | 8,165 | 8.69 | 1,093 | 3.5 |
| 2007 | 11,498 | 2,934 | 0.89 | 1.9 | 67.3 | 50,005 | 10.17 | 5,536 | 3.1 |
| 2008 | 5,274 | 2,306 | 6.19 | 12.38 | 83.87 | 12,999 | 14.37 | 1,035 | 2.8 |
| 2009 | 3707 | 1,413 | 0.09 | 2.78 | 66.7 | 9,925 | 12 | 1334 | 3.6 |
| 2010 | 3,687 | 1,010 | 0.18 | 1.93 | 73.9 | 18,123 | 11.13 | 1,905 | 5.3 |
| 2011 | 4,648 | 1,071 | 0.18 | 2.33 | 83.3 | 20,092 | 12.92 | 1,992 | 5.5 |

(A) Calculated as a percent of small game license holders only

Figure 9. Trends in total harvest of feral hog for licensed non-resident hunters (2000 to the Present)

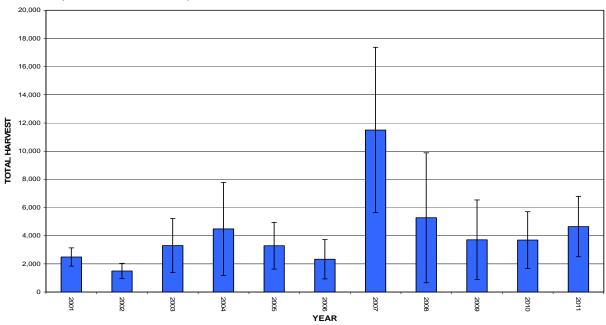


Figure 10. Trends in average daily kill of feral hog for licensed resident hunters (2000 to the Present)

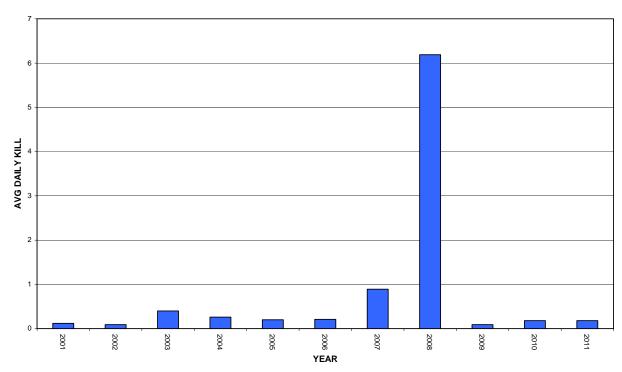


Figure 11. Trends in average seasonal harvest of feral hog for licensed non-resident hunters (2000 to the Present)

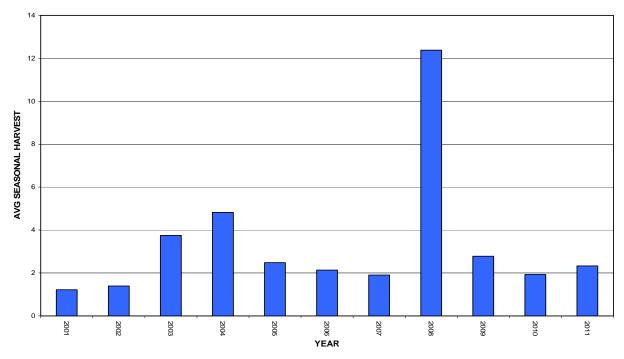


Figure 12. Trends in percent successful feral hog hunters for licensed non-resident hunter (2000 to the Present)

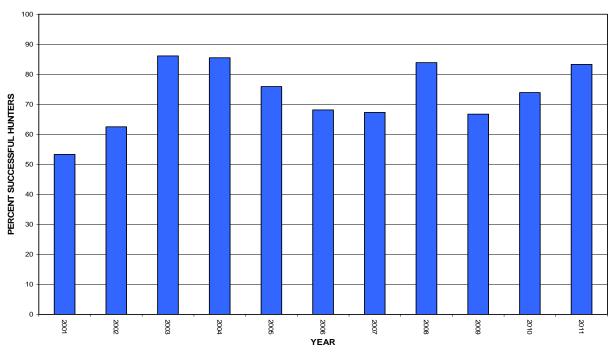


Figure 13. Trends in total man days feral hog hunting for licensed non-resident hunters (2000 to the Present)

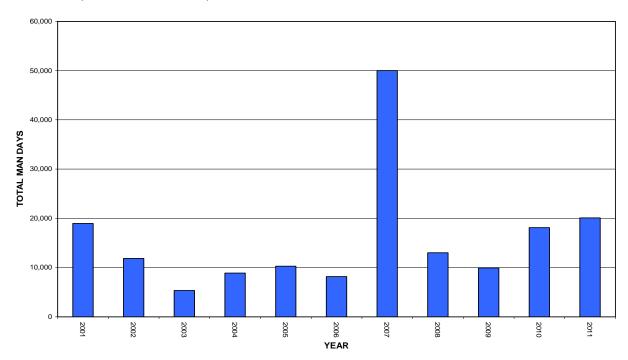


Figure 14. Trends in average seasonal days feral hog hunting for licensed non-resident hunters (2000 to the Present)

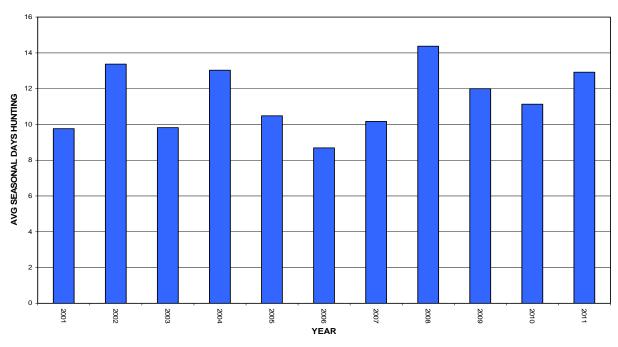


Figure 15. Trends in total feral hog hunters for licensed non-resident hunters (2000 to the Present)

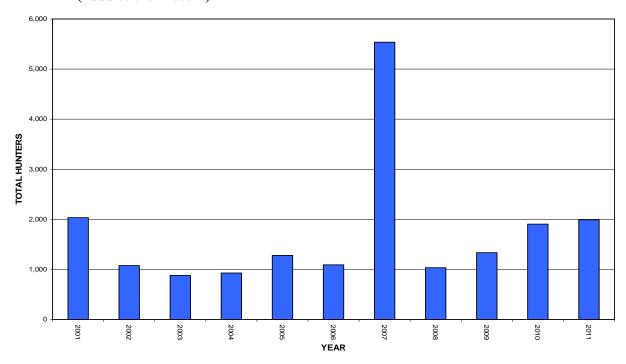


Figure 16. Trends in proportion of licensed non-resident hunters who hunted for feral hog (2000 to the Present)

