

HumanDimensions
Research Program

Illinois Natural History Survey
Institute of Natural Resource
Sustainability
University of Illinois at
Urbana-Champaign



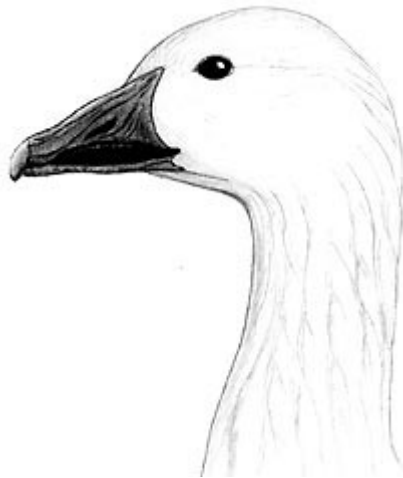
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Results of the 2010 Illinois Conservation Order Light Goose Hunter Survey



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RESULTS OF THE 2010 ILLINOIS CONSERVATION ORDER LIGHT GOOSE HUNTER SURVEY

JOB COMPLETION REPORT

WILDLIFE HARVEST AND
HUMAN DIMENSIONS RESEARCH PROGRAM

STATE OF ILLINOIS

PROJECT NUMBER: W-112-R-19
STUDY 101
JOB NO. 101.6

Prepared by
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Illinois Natural History Survey
Champaign, IL
October 21, 2010

Federal Aid in Wildlife Restoration
W-112-R-19

Illinois Department of Natural Resources

Marc Miller, Director
Illinois Department of Natural Resources

John E. Buhnerkempe, Chief
Division of Wildlife Resources

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ABSTRACT

A random sample of 3,000 potential goose hunters was selected from National Migratory Bird Harvest Information Program (HIP) registrants in Illinois. Survey participants were mailed a 4-page questionnaire between March and May 2010. We received 1,441 returned questionnaires, 1,436 of which were usable (49% response rate). Based on these responses, we estimate 3,702 hunters were active during the 2010 Illinois Conservation Order snow goose season, a 21% decrease from the 4,663 hunters estimated for the 2009 season. Days hunted were estimated at 25,581 in 2010, which was 25% less than the estimate of 33,947 days in 2009. An estimated 65,987 snow geese were harvested during the 2010 Conservation Order snow goose season, a 23% decrease over 2009. The Central Zone accounted for 51% of total days hunted, and 29% of total harvest. Statewide, 68% of the harvest occurred during February. Of respondents who did not hunt during the Conservation Order season, 37% indicated they had no place to hunt; this percentage represented a small change from the previous year (a decrease of 2%). During the 2010 season, sixty percent of light (snow) geese were hunted on private land to which hunters had access.

OBJECTIVE

To annually determine activities, harvests, and attitudes/opinions of hunters participating each year in the Light Goose Conservation Action.

METHODS

A sample of 3,000 goose hunters was randomly selected from the population of goose hunters who registered with the National Migratory Bird Harvest Information Program (HIP) in Illinois for the 2009-2010 season. On 27 March 2010, these potential Conservation Order snow goose hunters were mailed a 4-page mail-back questionnaire and cover letter (Appendices A and B). Non-respondents were mailed a thank you/reminder postcard (Appendix C) on 13 April, a second copy of the questionnaire and

cover letter (Appendix D) on 29 April, and another thank you/reminder postcard on 18 May. Estimates of number of hunters, days hunted, and snow geese harvested were based on confirmed sales of 68,549 Illinois Migratory Waterfowl Stamps (2009-2010 series). The estimated snow goose harvest was adjusted for reporting bias using 0.478 as the adjustment factor (Anderson et al. 1996). Ninety-five percent confidence intervals were calculated for number of hunters, days hunted, and geese harvested, as described in Lischka et al. (2006). We entered and analyzed data using SPSS 12.0 (SPSS Inc. 2003). Results are summarized in Appendix A.

SEASON LENGTHS AND BAG LIMITS

The 2010 Conservation Order Light Goose season extended from 10 January to 31 March in the North Zone, and from 1 February to 31 March in the Central Zone and South Zone. In each zone, the light goose season began the day after the regular Canada goose season closed. There was no daily or seasonal bag limit for snow geese; hunters were allowed to use unplugged shotguns, electronic calls, and hunt from ½ hour before to ½ hour after sunset during the Conservation Order season.

RESULTS

The questionnaire was not deliverable to 70 recipients, thus the sample population was reduced to 2,930 individuals. A total of 1,441 questionnaires were returned, of which 1,436 contained usable data (49% return rate).

Of the 1,436 respondents, 88 (6%) reported hunting during the Conservation Order snow goose season in Illinois in 2010. Respondents are listed by county of residence in Appendix E.

Based on survey responses, we estimate there were 3,702 active snow goose hunters statewide during the 2010 Illinois Conservation Order season (Table 1). These hunters expended an estimated 25,581 days hunting. From the 2008 season to the 2010 season, there was a decrease of 42% in light (snow) geese hunters (6,409 in the 2008 season to 3,702 in the 2010 season). Over the past 10 years the

number of snow goose hunters has fluctuated, with the lowest being 865 (in 2000), and the highest being 6,409 (in 2008; Table 1). The 2010 estimates indicate a 21% decrease in hunters, and a 25% decrease in days hunted compared to the 2009 season. The 95% confidence intervals were: ± 820 for hunters and $\pm 6,297$ for days hunted. An estimated 3,561 snow geese were hit but not retrieved.

We estimated that snow goose hunters in Illinois harvested 65,987 geese during the 2010 Conservation Order snow goose season. The 95% confidence interval for this estimate is $\pm 42,519$ geese. The North zone accounted for 3% of days hunted and 1% of goose harvest in 2010. This represents a stationary number of days hunted, and slight increase (1%) in harvest during 2010, as compared to 2009. Concurrently, in 2010 the days hunted (51%) decreased and harvest (29%) decreased in the Central zone (from 53% and 42%, respectively, in 2009). The South Zone accounted for 46% of total days of hunting, and 70% of total harvest in 2010 (Table 2). Statewide, 68% of the harvest occurred during February. The February harvest was distributed nearly equally over the weeks of the month (Table 3). Fifty seven percent of light (snow) geese hunters reported hunting in the Central Zone most often during the 2010 Conservation Order Light Goose season.

Of the 1,348 respondents who did not hunt during the Conservation Order season, 37% indicated they had no place to hunt snow geese, 30% did not have the proper equipment to hunt snow geese, 26% had no snow geese in their area, or did not have enough time to hunt light geese. Twenty-three percent were not interested in hunting snow geese (Table 4). When respondents were asked if the above factors were removed, would the hunter pursue snow geese; 62% responded yes, while only 15% responded that they would not.

Sixty three percent of the snow goose hunters used electronic calls, and almost two-thirds (62%) took advantage of regulations that allowed unplugged shotguns. Fewer hunters hunted until $\frac{1}{2}$ hour after sunset (31%). Fifty-four percent of hunters used 4th, 5th, or 6th shells to hunt snow geese in the 2010 season (Table 5).

The majority of respondents (60%) hunt on private land on which they have permission to hunt; this represents a 2% increase since the 2009 season. Thirteen percent of hunters hunt on their own land or land owned by a family member, and 11% hunt on land they pay to access. Three percent fewer people hunt on land they paid to access in the 2010 season, as compared to the 2009 season (Table 6). Most (94%) respondents did not use a guide or outfitter while hunting light geese in Illinois during 2010.

DISCUSSION

When queried as to why they did not hunt snow geese during the 2010 season, 37% of respondents indicated they had no place to hunt snow geese, and another 30% reported they did not have the proper equipment. Many hunters do not want the added expense of buying equipment if they feel that snow geese are few in the area they hunt. Because snow geese are not evenly distributed across the state and hunters may not see birds regularly, it is possible that many hunters may not know the population is large enough to hunt in their area. However, the number of snow geese migrating through Illinois continues to increase. If the trend of decreasing hunter harvest of these species in Illinois (Table 1) is indicative of the continental, or even regional, trend in harvest, the negative effects of the birds that originally motivated the season may continue to increase. As a result, our ability to control light goose populations through the conservation order season may be limited. Many (62%) respondents indicated that they would begin to hunt snow geese if the impediments to their participation were removed. Therefore, if access were increased or equipment were easier or cheaper to access, participation and harvest may increase in Illinois.

REFERENCES

Anderson, W.L., D.D. Thornburg, and R.M. Whitton. 1996. Estimating Canada goose harvest in southern Illinois quota zones. *Wildlife Society Bulletin* 24:233-237.

Lischka, S.A., W.L. Anderson, and L.K. Campbell. 2006. Results of the 2005-2006 Illinois hunter harvest survey. Human Dimensions Program Report HR-06-01. Illinois Natural History Survey, Champaign, IL. 55pp.

SPSS Inc. 2003. SPSS for Windows. SPSS, Chicago, Illinois, U.S.A.

Table 1. Estimates of hunters, days hunted, and snow goose harvest during the Conservation Order snow goose seasons in Illinois in 1999-2010, as estimated by the Illinois Light Goose Hunter Survey.

Year	<i>n</i>	Estimated Hunters	Estimated Days Hunted	Estimated Harvest
1999	43	1,076	3,756	2,254
2000	25	865	6,643	7,612
2001	70	4,665	32,634	36,830
2002	129	5,107	31,204	17,875
2003	87	3,111	27,177	30,564
2004	104	5,976	44,306	37,189
2005	99	5,689	42,349	43,839
2006	119	5,543	53,154	74,268
2007	98	5,962	39,170	44,514
2008	135	6,409	50,471	97,021 ^b
2009	88	4,663	33,947	85,635 ^c
2010 ^a	78	3,702	25,581	65,987

^aFor the 2010 season, 95% confidence intervals were: ± 820 for hunters, $\pm 6,297$ for days hunted and $\pm 42,519$ for harvest.

^bThis estimate contains harvest reported by 2 potential outliers. Estimated harvest without outlier responses is 74,412. See report (2008) text for full discussion.

^cThis estimate contains harvest reported by 1 potential outlier. Estimated harvest without outlier responses is 77,789 and the 95% confidence interval for this estimate is $\pm 30,698$ geese.

Table 2. Estimated snow goose harvest and days hunted by waterfowl zone and month during the Conservation Order snow goose season in Illinois, as estimated by the Illinois Light Goose Hunter Survey: 2010 season ($n = 78$).

Waterfowl Zone	January		February		March		Season	
	Goose Harvest	Days Hunted	Goose Harvest	Days Hunted	Goose Harvest	Days Hunted	Goose Harvest	Days Hunted
North	249 ^a 44.0% ^b 0.4% ^c	444 57.1% 1.7%	317 56.0% 0.5%	333 42.9% 1.3%	0 0.0% 0.0%	0 0.0% 0.0%	566 100% 0.9%	777 100% 3.0%
Central	---	---	8,461 44.4% 12.8%	7,219 54.9% 28.2%	10,616 55.6% 16.1%	5,923 45.1% 23.2%	19,077 100% 28.9%	13,142 100% 51.4%
South	---	---	35,977 77.6% 54.5%	8,811 75.6% 34.4%	10,367 22.4% 15.7%	2,851 24.4% 11.1%	46,344 100% 70.2%	11,662 100% 45.6%
Statewide	249 0.4%	444 1.7%	44,755 67.8%	16,363 64.0%	20,983 31.8%	8,774 34.3%	65,987 100%	25,581 100%

^a Estimated goose harvest.

^b Percent of harvest in zone.

^c Percent of statewide harvest.

Table 3. Estimated hunters, harvest and days hunted in February 2010.

Time Period	n	Estimated Hunters ^a	Estimated Days Hunted	Estimated Harvest
February 1-7	31	1,508	3,924	7,032
February 8-15	40	1,919	5,701	12,340
February 16-28	38	1,782	6,738	25,383

^a Some hunters hunt more than one time period.

Table 4. Reasons for not hunting during the Conservation Order snow goose season in Illinois, as reported by respondents to the Illinois Light Goose Hunter Survey: 2010 season ($n = 1,348$).

	<i>n</i>	%
No place to hunt snow geese	533	37.1%
Did not have the proper equipment	425	29.6%
Not enough time	370	25.8%
No snow geese in my area	370	25.8%
Not interested	326	22.7%
Did not know any other hunters who hunted snow geese	277	19.3%
Not enough knowledge of snow goose habits	232	16.2%
Unsatisfactory past experience	116	8.1%
Other	82	5.7%

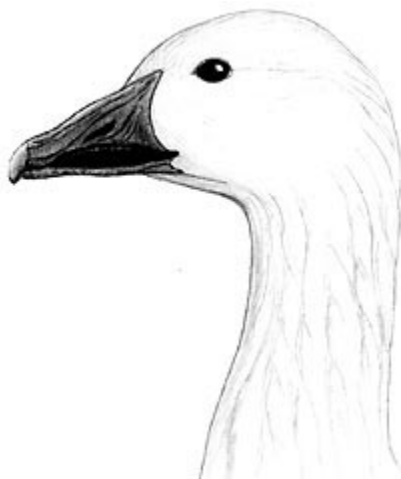
Table 5. Methods used to hunt snow geese and harvest using selected methods during the Conservation Order snow goose season in Illinois, as reported by respondents to the Illinois Light Goose Hunter Survey: 2010 season ($n = 78$).

Method	Hunters		Estimated Hunters That Used Each	Estimated Total Harvest
	<i>n</i>	%		
Electronic calls	49	62.8%	2,325	53,405
Unplugged shotgun	48	61.5%	2,277	49,884
Hunting from sunset to ½ hour after sunset	24	30.8%	1,140	6,353
Using 4 th , 5 th , or 6 th shell	42	53.8%	1,992	10,918

Table 6. Types of land hunted by respondents to the Illinois Light Goose Hunter Survey: 2010 season.

Land Hunted	<i>n</i>	%
Public lands owned or managed by IDNR	9	9.2%
Other public lands	3	3.1%
Private land I or a member of my family own	13	13.3%
Private land on which I had permission to hunt	59	60.2%
Private land I paid to access (lease, membership, etc.)	11	11.2%
Other	3	3.1%

Illinois Light (Snow) Goose Hunter Survey: 2010 Season Results Summary



Your comments are welcome! Please write them on a separate sheet of paper to receive proper attention.

THANK YOU FOR YOUR COOPERATION!

All of your responses will be kept confidential.
Please return this survey in the postage-paid return envelope provided.



Illinois Department of Natural Resources
Division of Wildlife Resources
and
Illinois Natural History Survey



ILLINOIS
NATURAL
HISTORY
SURVEY

The Department of Natural Resources is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under the Illinois Compiled Statutes, The Wildlife Code, Chapter 520. Disclosure of information is voluntary. This study is funded by the federal Wildlife Restoration Fund through your purchase of hunting arms and ammunition. The IDNR receives federal assistance and therefore must comply with federal anti-discrimination laws. In compliance with the Illinois Human Rights Act, the Illinois Constitution, Title VI of the 1964 Civil Rights Act, Section 504 of the Rehabilitation Act as amended, and the U.S. Constitution, the Illinois Department of Natural Resources does not discriminate on the basis of race, color, sex, national origin, age, or disability. If you believe you have been discriminated against in any program, activity, or facility, please contact the Equal Employment Opportunity Officer, Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702-1271, (217) 782-7616 or the Officer of Human Resources, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

Light Goose Hunting Effort and Harvest. Please answer the following questions about your hunting activities during the 2010 Conservation Order light (snow) goose hunting season in Illinois. Throughout this survey, the term “light geese” includes Snow, Ross’ and Blue geese.

1. Did you hunt light (snow) geese in Illinois during the 2010 Conservation Order light (snow) goose season (**North Zone: Jan. 10-March 31, 2010; Central and South Zones: Feb. 1- March 31, 2010**)? Do not include hunting light geese during the regular Canada goose season. (*Please check one.*) **n=1,436**

6.1% Yes (*Please skip to question 4.*)
93.9% No

2. For which of the following reasons did you not participate in the 2010 Conservation Order light (snow) goose season in Illinois? (*Please check all that apply.*) **n=1,348**

29.6% I did not have the proper equipment to hunt light geese (decoys, calls, etc.).
19.3% I did not know any other hunters who hunted light geese in Illinois.
16.2% I did not have enough knowledge of light goose habits.
37.1% I did not have a place to hunt light geese in Illinois.
25.8% There are no light geese in the area in which I hunt.
25.8% I did not have enough time to hunt light geese.
22.7% I was not interested in hunting light geese.
8.1% My past experience hunting light geese in Illinois was unsatisfactory.
5.7% Other (*Please indicate.*) _____

3. If the factors above that prevented you from hunting snow geese in 2010 were removed, would you consider hunting snow geese during the 2011 Conservation Order light (snow) goose season? (*Please check one.*) **n=1,225**

61.9% Yes
15.2% No
22.9% I am not sure.

If you did not hunt light (snow) geese during the 2010 Conservation Order season, please skip to question 15.

4. In which zone did you hunt light (snow) geese most often during the 2010 Conservation Order Light Goose season? (*Please check one.*) **n=88**

8.0% North Zone
56.8% Central Zone
35.2% South Zone

5. If you did hunt light (snow) geese in Illinois during the 2010 Conservation Order light goose season, please indicate your effort and harvest in the following table. **Include only harvest that occurred during the Conservation Order light goose season; do not include light goose harvest during the regular Canada goose seasons.** Report the county(ies) in which you hunted, number of days you hunted, and geese harvested for time period in which you hunted light geese. Include only geese you harvested and days you hunted in Illinois. Count part of 1 day as 1 day.

	County hunted	Days hunted	Geese harvested	Geese hit, but not retrieved
January:	See tables			
	1&2			
February 1-7:				
February 8-15:				
February 16-28:				
March:				

6. Did you hunt light (snow) geese with a gun that held more than 3 shells? (Please check one.) **n=86**

57.0% Yes

43.0% No (Please skip to question 9.)

7. If yes, how many light (snow) geese did you harvest with a gun holding 3 or more shells? (Please indicate.)

See Table 4. light (snow) geese

8. If yes, how many light (snow) geese did you harvest with the 4th, 5th, or 6th shells in your gun? (Please indicate.)

See Table 4. light (snow) geese

9. Did you hunt light (snow) geese with the aid of an electronic caller? (*Please check one.*) **n=86**

58.1% Yes

41.9% No (*Please skip to question 11.*)

10. If yes, how many light (snow) geese did you harvest with the aid of an electronic caller? (*Please indicate.*)

See Table 4. light (snow) geese

11. Did you hunt light (snow) geese after sunset? (*Please check one.*) **n=85**

28.2% Yes

71.8% No (*Please skip to question 13.*)

12. If yes, how many light (snow) geese did you harvest after sunset? (*Please indicate.*)

See Table 4. light (snow) geese

13. On which of the following types of land did you hunt light (snow) geese in Illinois during 2010? (*Please check all that apply.*) **n=98**

9.2% Public land owned or managed by IDNR

3.1% Other public land

13.3% Private land I or a member of my family own

60.2% Private land on which I had permission to hunt

11.2% Private land I paid to access (lease, membership, etc)

3.1% Other (*Please indicate.*) _____

14. Did you use a guide or outfitter while hunting light (snow) geese in Illinois during 2010? (*Please check one.*) **n=86**

5.8% Yes

94.2% No

15. What is your county of residence? (*Please indicate.*)

See Appendix E. County

THANK YOU FOR YOUR TIME AND ASSISTANCE!

Appendix B. Cover letter sent with first mailing of questionnaire for the Illinois Light Goose Hunter Survey: 2010 season.



ILLINOIS NATURAL HISTORY SURVEY

Institute of Natural Resource Sustainability
University of Illinois at Urbana-Champaign

April 1, 2010

Dear Light (Snow) Goose Hunter,

I am writing to ask for your help in a study of Illinois hunters who participated in the 2010 Conservation Order light (snow) goose hunting season. This study, jointly conducted by the Illinois Department of Natural Resources and the Illinois Natural History Survey, is an effort to learn about light goose hunting activities in Illinois and the factors that motivate hunters to take to Illinois waterways and fields to hunt light geese. Results of this study will guide waterfowl management decisions to optimize hunting opportunity, maintain or improve hunter satisfaction, and allow for effective management of Illinois's light goose populations.

You are part of a random sample of waterfowl hunters we have selected to provide information about your hunting activities during the 2010 Conservation Order light (snow) goose hunting season in Illinois. Please take a few minutes to complete the enclosed questionnaire, even if you did not hunt light geese in Illinois during the 2010 season. Your responses are confidential and will not be associated with your name or address in published reports. While your response to this questionnaire and any of the questions is completely voluntary, you can help us effectively manage waterfowl and hunting in Illinois by sharing your experiences and views. You may skip any questions you do not feel comfortable answering. We look forward to hearing from you soon.

If you have any questions or comments about this study, please contact Linda Campbell, Survey Administrator, at (217) 244-5121 or write her at the address listed below. If you have any questions about your rights as a participant in this study, please contact the University of Illinois Institutional Review Board at (217) 333-2670 (collect calls accepted if you identify yourself as a research participant) or via email at irb@illinois.edu.

You may access the results of this and other studies of wildlife use in Illinois at <http://www.inhs.illinois.edu/programs/hd/>. You may also find information about Illinois Department of Natural Resources wildlife management programs and wildlife in Illinois at <http://dnr.state.il.us/orc/wildliferesources/>.

Sincerely,

Stacy A. Lischka
Human Dimensions Specialist
Illinois Natural History Survey

Appendix C. Thank you/reminder postcard mailed after the questionnaire for the Illinois Light Goose Hunter Survey: 2010 season.



Dear Illinois hunter,

Recently you were mailed a questionnaire about your Snow Goose hunting activities in Illinois during the Conservation Order Season. We have not yet received your response. **If you have already returned the questionnaire, please accept our sincere thanks. If you have not returned the questionnaire, please do so today.** Because wildlife managers are interested in serving the public, your input is vital. If you have any questions about this study or require a replacement questionnaire, please call (217) 244-5121.

Thank you for your cooperation.

A handwritten signature in cursive script, appearing to read "Stacy Lischka".

Stacy Lischka
Human Dimensions Specialist,
Illinois Natural History Survey

Appendix D. Cover letter sent with second mailing of questionnaire for the Illinois Light Goose Hunter Survey: 2010 season.



ILLINOIS NATURAL HISTORY SURVEY

Institute of Natural Resource Sustainability
University of Illinois at Urbana-Champaign

May 1, 2010

Dear Light (Snow) Goose Hunter,

A few weeks ago, we sent you a questionnaire asking about your light (snow) goose hunting activities in Illinois during 2010. To the best of our knowledge, the questionnaire has not yet been returned. If this letter and your completed questionnaire have crossed in the mail, please accept our sincere thanks for your participation in this study!

Your views are crucially important, even if you did not hunt light (snow) geese in Illinois during 2010. The comments of hunters who have already responded show that Illinois light goose hunters desire different types of hunting experiences and take to the field for many different reasons. The results of this study will help Illinois Department of Natural Resources biologists make informed decisions about how to manage waterfowl and waterfowl hunting in Illinois.

If you have not already done so, please take a few minutes to complete the enclosed questionnaire. The enclosed questionnaire is a duplicate copy of the one you received earlier. Your responses are completely confidential and will not be associated with your name or address in any printed reports. While your response to this questionnaire and any of the questions is completely voluntary, you can help us effectively manage waterfowl in Illinois by sharing your experiences and views. You may skip any questions you do not feel comfortable answering. We look forward to hearing from you soon.

If you have any questions or comments about this study, please contact Linda Campbell, Survey Administrator, at (217) 244-5121 or write her at the address listed below. If you have any questions about your rights as a participant in this study, please contact the University of Illinois Institutional Review Board at (217) 333-2670 (Collect calls accepted if you identify yourself as a research participant) or via email at irb@illinois.edu.

Thank you very much for helping with this important study.

Sincerely,

Stacy A. Lischka
Human Dimensions Specialist
Illinois Natural History Survey

Appendix E. County of residence of respondents to the Illinois Light Goose Hunter Survey: 2010 season ($n = 1,436$).

County	<i>n</i>	%	County	<i>n</i>	%	County	<i>n</i>	%
Adams	24	1.7	Hardin	0	0.0	Morgan	12	0.8
Alexander	3	0.2	Henderson	12	0.8	Moultrie	5	0.3
Bond	3	0.2	Henry	19	1.3	Ogle	9	0.6
Boone	3	0.2	Iroquois	8	0.6	Peoria	53	3.7
Brown	2	0.1	Jackson	26	1.8	Perry	14	1.0
Bureau	14	1.0	Jasper	3	0.2	Piatt	6	0.4
Calhoun	7	0.5	Jefferson	18	1.3	Pike	13	0.9
Carroll	12	0.8	Jersey	10	0.7	Pope	4	0.3
Cass	12	0.8	JoDaviess	5	0.3	Pulaski	1	0.1
Champaign	20	1.4	Johnson	5	0.3	Putnam	4	0.3
Christian	7	0.5	Kane	28	1.9	Randolph	13	0.9
Clark	5	0.3	Kankakee	18	1.3	Richland	2	0.1
Clay	3	0.2	Kendall	11	0.8	Rock Island	28	1.9
Clinton	16	1.1	Knox	12	0.8	St. Clair	48	3.3
Coles	5	0.3	Lake	36	2.5	Saline	8	0.6
Cook	81	5.6	LaSalle	30	2.1	Sangamon	33	2.3
Crawford	4	0.3	Lawrence	0	0.0	Schuyler	6	0.4
Cumberland	2	0.1	Lee	10	0.7	Scott	3	0.2
DeKalb	17	1.2	Livingston	17	1.2	Shelby	6	0.4
DeWitt	4	0.3	Logan	12	0.8	Stark	2	0.1
Douglas	7	0.5	McDonough	1	0.1	Stephenson	9	0.6
DuPage	29	2.0	McHenry	38	2.6	Tazewell	45	3.1
Edgar	4	0.3	McLean	22	1.5	Union	11	0.8
Edwards	3	0.2	Macon	15	1.0	Vermilion	10	0.7
Effingham	8	0.6	Macoupin	16	1.1	Wabash	5	0.3
Fayette	9	0.6	Madison	46	3.2	Warren	3	0.2
Ford	3	0.2	Marion	6	0.4	Washington	8	0.6
Franklin	21	1.5	Marshall	11	0.8	Wayne	4	0.3
Fulton	27	1.9	Mason	22	1.5	White	1	0.1
Gallatin	0	0.0	Massac	9	0.6	Whiteside	23	1.6
Greene	7	0.5	Menard	9	0.6	Will	81	5.6
Grundy	11	0.8	Mercer	8	0.6	Williamson	33	2.3
Hamilton	4	0.3	Monroe	14	1.0	Winnebago	21	1.5
Hancock	8	0.6	Montgomery	7	0.5	Woodford	23	1.6