

ARCHER SURVEY 2012 REPORT



During the past 21 years, Illinois bowhunters have helped the Department of Natural Resources by reporting types and numbers of animals observed while hunting. This information is used to detect major changes in wildlife populations over time based on a "sighting index" (number of sightings per 1,000 hours of field time).

During 2012, 896 volunteers reported 55,067 hours of wildlife observations. Changes in sighting indices from 2011 to 2012 were nominal. Long-term (1992-2012) increases in sighting indices occurred for bobcat, coyote, white-tailed deer, squirrel, and wild turkey (Table 1). Long-term decreases occurred for red fox and gray fox.

Table1. Trends in statewide Archery Deer Hunter Survey sighting index in Illinois, 1992-2012, using hunter-location method of analysis.

Year	Species								
	Bobcat	Coyote	Deer	Gray fox	Raccoon	Red fox	Squirrel	Turkey	
.992 (1,239) ^a	0.53	27.09	655.29	2.50	30.14	9.25	972.66	93.41	
993 (2,877)	0.65	29.68	611.17	1.90	49.35	8.06	1017.30	123.85	
94 (1,814)	0.40	28.44	586.54	1.68	46.74	5.67	1089.03	146.25	
995 (2,278)	0.81	30.57	696.88	1.61	52.53	6.64	995.29	138.17	
96 (1,458)	0.80	27.50	662.87	1.18	45.73	4.68	938.52	144.45	
97 (1,411)	1.34	26.48	661.98	0.64	47.16	5.45	981.15	139.24	
998 (2,052)	1.10	30.82	736.18	0.80	49.18	6.02	928.99	201.51	
999 (1,931)	1.37	32.26	729.16	1.39	63.02	3.51	988.98	241.48	
000 (1,854)	1.10	30.56	853.55	0.68	65.90	4.11	1087.00	272.55	
01 (1,366)	1.57	32.35	918.72	0.76	66.64	4.42	1266.34	311.16	
02 (1,780)	2.00	34.47	995.25	0.60	55.07	3.74	1081.09	348.07	
003 (1,569)	2.10	29.75	1033.49	0.81	65.72	3.53	1177.41	308.02	
004 (1,216)	1.31	35.93	1143.40	0.57	64.12	3.53	1219.52	344.96	
005 (1,544)	3.69	32.01	1145.71	0.62	53.14	3.62	1045.07	280.14	
006 (791)	3.07	35.46	1104.14	0.47	70.32	3.86	1255.03	342.55	
007 (1,075)	2.89	47.58	1104.24	0.82	60.69	3.96	1076.21	332.91	
008 (649)	3.36	32.09	930.51	0.33	60.43	2.70	1007.79	267.49	
009 (1,067)	2.80	27.41	815.75	0.36	52.25	4.05	1098.01	287.15	
10 (700)	3.84	40.95	915.54	1.04	91.86	3.20	1223.82	279.73	
011 (936)	4.11	32.54	856.17	1.26	b	3.80	1225.71	273.90	
12 (896)	5.89	43.60	940.70	0.71	b	4.12	1173.81	279.12	

^aNumber of observers in parentheses following year.

^b Raccoon dropped from survey in 2011.

Statewide, the number of deer observed per 1,000 hours increased 9.9% from 2011 to 2012. Archers harvested 59,805 deer during 2012-13, down slightly from 2011-2012 (61,974 deer). The harvest for all seasons combined (firearm and archery) was also lower in 2012-13 (180,811) than 2011-12 (181,451).

Table 2. Numbers of hunter locations and deer seen per 1,000 hours for the 2012 Archery Deer Hunter Survey using hunter-location method of analysis.

	Number of	Deer seen	
Sample	hunter	per	
area	locations	1,000 hours	
Central sand prairie	42	829	
Grand prairie	422	889	
Mississippi border (N)	56	1,042	
Mississippi border (S)	142	902	
Northeast moraine	52	411	
Northwest hills	90	909	
Shawnee hills	64	747	
Southern plain	262	1,009	
Wabash border	51	1,374	
Western prairie forest	163	1,120	
Statewide	1,348	941	

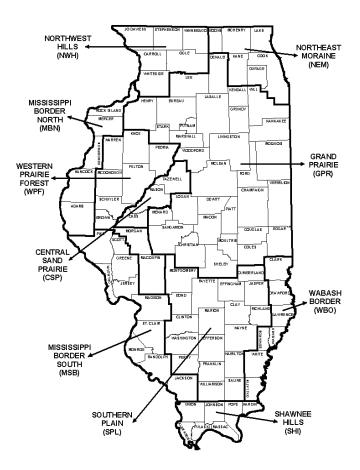


Figure 1. Locations and names of Illinois wildlife management units.

Hunters' wildlife observations are influenced by habitat characteristics. For example, hunters in heavily forested areas of the Shawnee Hills might not detect deer as easily as hunters in agricultural areas of the Grand Prairie. Other factors that affect sighting indices include weather, timing of the crop harvest, food supplies and the number of hunters participating in the survey.

Differences in sighting rates among wildlife management units (Table 2) must be interpreted cautiously, especially for a particular year or a particular area. Variations in weather, food supplies and other factors tend to cancel each other out over time, providing a reliable indicator of long-term population trends. This is the best and most important use of data from the survey.

We thank all bowhunters who participated in 2012 and ask that they consider continuing their participation in 2013. If you haven't had an opportunity to help collect data for the Archer Survey, we ask that you strongly consider doing so. Information provided by the Archer Survey becomes more reliable as the number of observers increases. Thanks again, and good hunting!

For more information about past deer seasons and harvest levels, visit: http://www.dnr.illinois.gov/hunting/deer/Pages/AnnualDeerHarvestReports.aspx