



BIG GAME HARVEST REPORTS 2017



MOOSE HARVEST REPORT – 2017

Summary

Each year, moose licence quotas are established for each Wildlife Management Zone open to moose hunting. The moose licence quota does not indicate the desired moose harvest level; rather, it indicates the number of licences needed to reach the desired moose harvest level. Licence quotas are affected by several factors, most importantly the estimate of moose population size, the amount of unregulated moose harvest, and the success rate of hunters in the regulated hunt. Changes in those factors often cause moose licence quotas to fluctuate up and down from year-to-year, even when moose populations and harvest targets are stable or increasing, as has been the case in the past few years. The resident moose licence quota in 2017 was 4,635 licences, which is a slight decrease from 2016.

A total of 60,724 NB residents, 3,113 non-residents, and 172 outfitters and guides submitted applications to the moose licence draw in 2017; 4,635 resident, 50 non-resident, and 50 outfitter and guide applicants were successful. A total of 76% of resident moose licence holders chose to designate another resident hunter to accompany them on their licence.

The total registered moose harvest in 2017 was 3,817 moose. Resident hunters harvested 3,731 moose, while non-residents took 86 moose. The overall hunter success rate was 82%.

Moose hunting season is set in regulation to be the last Tuesday-Saturday of September, so the season timing varies each year according to the calendar. In 2017, this resulted in a season of September 26-30th.

2017 Synopsis

New Brunswick's moose population appears to be stable in most areas of the province, particularly in the north-western part of the province. Moose population declines are evident in parts of southern NB. The resident moose licence quota for 2018 is 4,465 licences.

Although the moose herd appears to be relatively healthy, it is difficult to accurately assess due to the unknown quantity and distribution of animals being removed by unregulated harvest. The regulated licence allocation must be conservative to ensure sustainability of the moose population until a moose harvest and reporting system can be established that accommodates existing aboriginal and treaty rights.

**NUMBER OF MOOSE APPLICATIONS, LICENCES ISSUED AND HARVEST
1960 - 2017 NEW BRUNSWICK**

Year	Estimated Population ^a	# Applications	# Drawn	Licences Issued	Registered Kill	% Hunter Success
[Moose season closed 1936 and reopened in 1960]				[Bulls only hunting from 1960 to 1965]		
1960	3,500	8,321	400	383	174	45
1961		17,221	800	771	262	34
1962		16,354	1,000	963	297	31
1963		16,359	1,000	1,000	296	30
1964		17,380	1,000	1,000	307	31
1965	4,200	18,460	1,000	1,000	314	31
1966		26,500	1,000	1,000	606	61
1967		16,500	1,000	1,000	469	47
1968		12,724	1,500	1,500	724	48
1969		16,009	1,600	1,566	707	45
1970	6,000	14,016	2,000	1,959	858	44
1971		18,334	2,000	1,959	931	48
1972		21,639	2,500	2,441	1,043	43
1973		31,558	2,500	2,460	1,127	46
1974 ^b		39,157	6,000	5,580	1,085	19
1975	8,200	17,587	6,000	4,528	969	21
1976		17,347	6,000	4,753	1,131	24
1977		15,815	6,000	4,746	1,246	26
1978		18,547	6,000	4,604	1,547	34
1979		25,007	6,000	4,786	1,360	28
1980	10,000	24,503	6,000	4,935	1,230	25
1981		33,500	6,000	4,892	1,436	29
1982		35,000	6,000	5,032	1,344	27
1983		38,302	6,000	5,065	1,287	25
1984		36,727	6,000	5,175	1,618	31
1985	15,000	41,104	6,000	5,063	1,346	27
1986		39,127	6,000	5,228	1,625	31
1987		37,625	6,000	5,210	1,838	35
1988		35,890	6,000	5,185	1,473	28
1989		28,895	6,000	5,243	2,022	39
1990	20,000	33,894	6,000	5,250	1,657	32
1991	20,000	39,314	6,000	5,234	1,753	33
1992	21,000	39,212	6,000	5,321	1,899	36
1993	22,000	42,332	6,000	5,320	2,061	39
1994 ^c	24,100	54,030	5,655	5,010	2,094	42
1995	24,100	53,791	5,649	4,989	2,326	47
1996 res. ^d		57,514	4,244	3,848	1,678	44
non-res. ^e		671	100	100	37	37
1996 total	19,400	58,185	4,344	3,948	1,715	43
1997 res.		59,428	4,754	4,301	2,075	48
non-res.		680	100	101	46	46
1997 total	19,900	60,108	4,854	4,402	2,121	48
1998 res.		55,590	4,804	4,573	2,377	52
non-res.		1,105	100	96	50	52
1998 total	20,400	56,695	4,904	4,669	2,427	52
1999 res.		57,271	4,683	4,519	1,974	44
non-res.		1,108	100	98	48	49
1999 total	20,800	58,379	4,783	4,617	2,022	44
2000 res.		48,469	4,283	4,174	2,485	60
non-res.		986	100	97	52	54
2000 total	21,300	49,455	4,383	4,271	2,537	59
2001 res.		50,504	4,518	4,415	2,518	57
non-res.		1,322	100	96	55	57
2001 total	21,700	51,826	4,618	4,511	2,573	57

a Estimated pre-hunt adult moose population (1.5 year-old+).

b 3 day season begins.

c Allocation of hunters by Wildlife Management Zone begins.

d Introduction of designate resident licences. Resident licences issued are party chiefs only from 1996 to current year. Resident hunter success rate is for party, regardless of number of hunters in party.

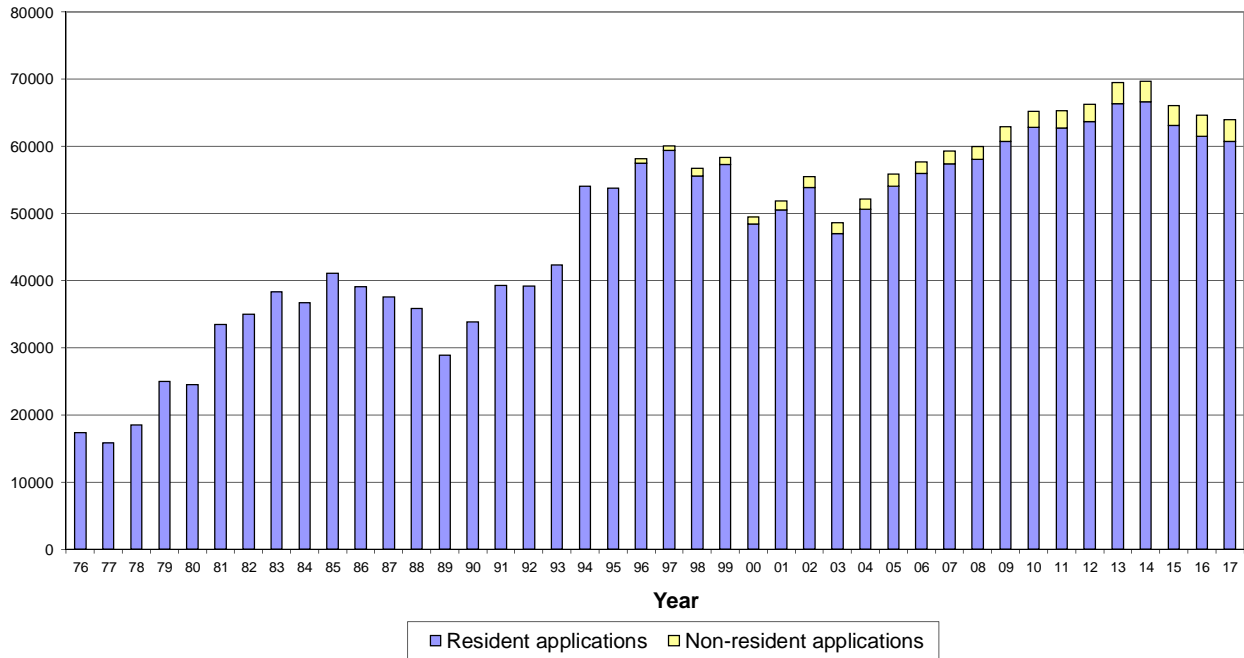
Year	Estimated Population ^a	# Applications	# Drawn	Licences Issued	Registered Kill	% Hunter Success
2002 res.		53,916	4,293	4,191	2,020	48
non-res.		1,586	100	95	51	54
2002 total	22,200	55,502	4,393	4,286	2,071	48
2003 res.		47,029	2,779	2,714	1,518	56
non-res.		1,559	100	94	50	53
2003 total	22,000	48,588	2,879	2,808	1,568	56
2004 res.		50,585	2,769	2,694	1,727	64
non-res.		1,539	100	96	67	70
2004 total	23,800	52,124	2,869	2,790	1,794	64
2005 res.		54,026	3,266	3,207	2,026	63
non-res.		1,824	100	97	58	60
2005 total	22,600	55,850	3,366	3,304	2,084	63
2006 res.		55,972	3,002	2,913	2,290	79
non-res.		1,744	100	98	72	73
2006 total	23,800	57,716	3,102	3,011	2,362	78
2007 res.		57,442	3,110	3,061	2,052	67
non-res.		1,875	100	99	68	69
2007 total	25,000	59,317	3,210	3,160	2,120	67
2008 res.		58,023	3,340	3,286	2,161	66
non-res.		1,948	100	96	70	73
2008 total	25,700	59,971	3,440	3,382	2,231	66
2009 res.		60,716	3,402	3,347	2,341	70
non-res.		2,209	100	98	68	69
2009 total	26,200	62,925	3,502	3,445	2,409	70
2010 res.		62,844	3,545	3,483	2,393	69
non-res.		2,319	100	100	81	81
2010 total	25,900	65,163	3,645	3,583	2,474	69
2011 res.		62,696	4,364	4,271	2,419	57
non-res.		2,648	100	97	59	61
2011 total	28,600	65,344	4,464	4,368	2,478	57
2012 res.		63,649	4,624	4,524	3,466	77
non-res.		2,608	100	100	81	81
2012 total	28,600	66,257	4,724	4,624	3,547	77
2013 res.		66,319	4,612	4,531	3,266	72
non-res.		3,140	100	98	80	82
2013 total	29,400	69,459	4,712	4,629	3,346	72
2014 ^f res.		66,658	4,612	4,529	3,605	80
non-res.		3,002	50	47	39	83
outfitter non-res. ^g		81	50	50	39	78
2014 total	29,800	69,741	4,712	4,626	3,683	80
2015 res.		63,135	4,592	4,498	3,651	81
non-res.		2,938	50	50	42	84
outfitter non-res.		78	50	50	36	72
2015 total	31,800	66,151	4,692	4,598	3,729	81
2016 res.		61,487	4,643	4,541	3,357	74
non-res.		3,177	50	49	37	76
outfitter non-res.		118	50	50	41	82
2016 total	31,200	64,782	4,743	4,640	3,435	74
2017 res.		60,724	4,635	4,564	3,731	82
non-res.		3,113	50	50	44	88
outfitter non-res.		172	50	49	42	86
2017 total	30,800	64,009	4,735	4,663	3,817	82

e Introduction of non-resident moose hunter draw for 100 licences.

f 5 day season begins.

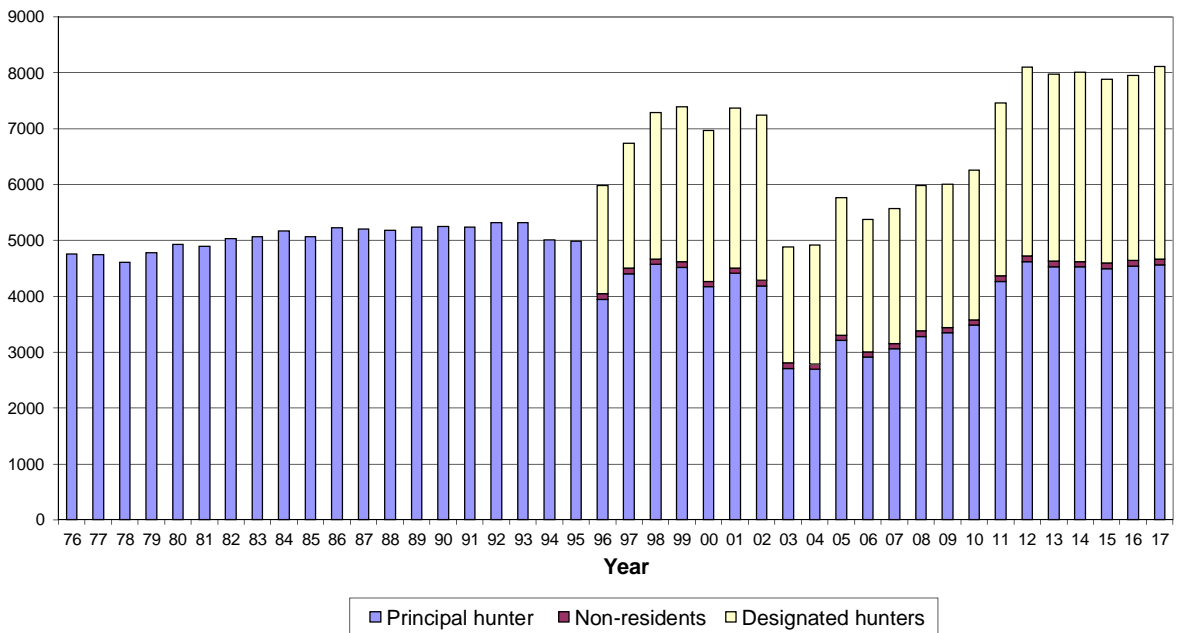
g Introduction of outfitter and guide non-resident draw for 50 licences. Non-resident moose hunter draw reduced from 100 to 50 licences.

MOOSE HUNTING APPLICATIONS 1976 - 2017 New Brunswick



- 76-93: 5 year waiting period
 - 1994: no waiting period or test; \$6 application fee

MOOSE HUNTING LICENCES SOLD 1976 - 2017 New Brunswick



- 76-93: test req'd; 6000 applications drawn
 - 1994: no test; fewer applications drawn
 - 1996: 2-person parties allowed; non-residents allowed; fewer resident applications drawn
 - 2003: permits reduced to mitigate impact of unregulated aboriginal harvest

MOOSE DRAW DATA, LICENCE PURCHASE AND KILL SUCCESS OF RESIDENT MOOSE HUNTING PARTIES New Brunswick 2017

WMZ	Licence Quota 2017	# Applicants	Applicants Drawn	Resident Principal Hunter Licences ¹ Purchased	Designated Hunter Licences ² Purchased	2017 Reg'd Kill ³	% Successful in Harvesting a Moose	Licence Quota 2018
1	128	1,063	128	128	93	109	85	129
2	429	2,380	429	420	273	364	87	438
3	379	4,014	379	375	262	364	97	361
4	366	3,046	366	355	271	292	82	355
5	206	3,373	206	205	149	181	88	207
6	321	2,044	321	313	197	254	81	334
7	342	7,248	342	337	256	315	93	324
8	243	3,367	243	238	174	200	84	230
9	58	1,191	58	58	43	47	81	55
10	62	1,340	62	62	45	58	94	61
11	262	2,185	262	260	177	233	90	276
12	248	2,985	248	243	192	209	86	235
13	108	1,970	108	107	84	93	87	106
14	129	1,988	129	129	115	95	74	127
15	109	1,844	109	107	85	94	88	117
16	213	2,879	213	209	155	159	76	201
17	132	1,595	132	129	97	84	65	125
18	173	2,283	173	173	161	102	59	169
19	79	1,504	79	78	67	57	73	78
20	179	4,442	179	178	150	125	70	150
21	139	1,341	139	136	104	102	75	93
22	79	793	79	79	70	25	32	68
23	140	3,093	140	135	126	88	65	110
24	43	1,065	43	43	41	23	53	42
25	68	1,691	68	67	62	58	87	74
Province	4,635	60,724	4,635	4,564	3,449	3,731	82	4,465

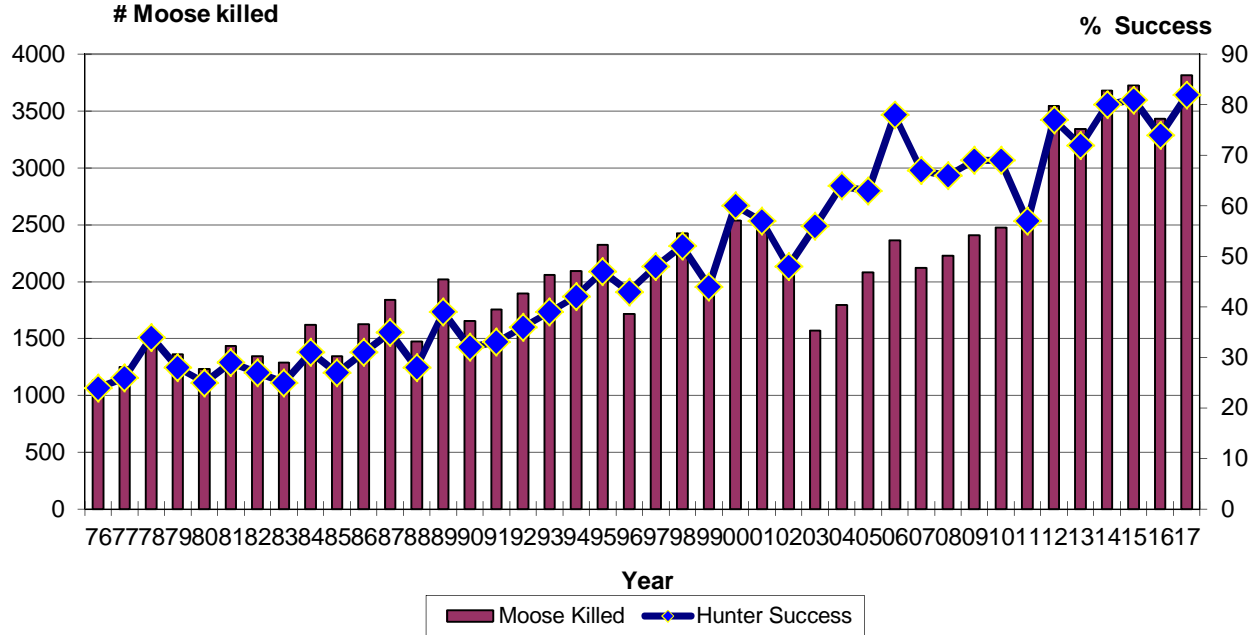
¹ Licences purchased are those of the resident principal hunters who were successful in the draw.

² Designated hunter licences allow principal hunters to be accompanied by one other resident hunter who can assist in filling their tag.
76% of residents who were successful in the draw and purchased a moose hunting licence chose to hunt with a designated hunter.

³ Resident kill only.

MOOSE HARVESTED & HUNTER SUCCESS RATES (%)

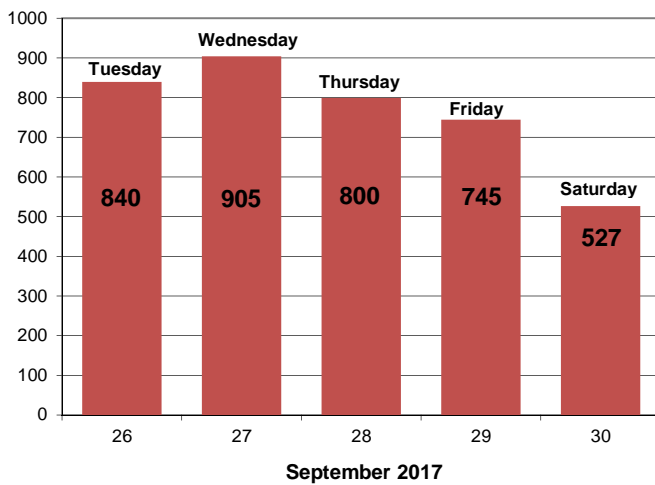
1976-2017 New Brunswick



-1994: Implementation of quotas by zone

MOOSE KILL BY DAY

2017 New Brunswick



AVERAGE WEIGHTS OF NEW BRUNSWICK MOOSE* (pounds** field dressed)

Age	Male	Female
0.5	234	225
1.5	466	415
2.5	612	515
3.5	701	553
4.5	752	532
5.5	791	569
6.5	788	574
7.5	748	535
8.5	866	573
9.5+	785	584

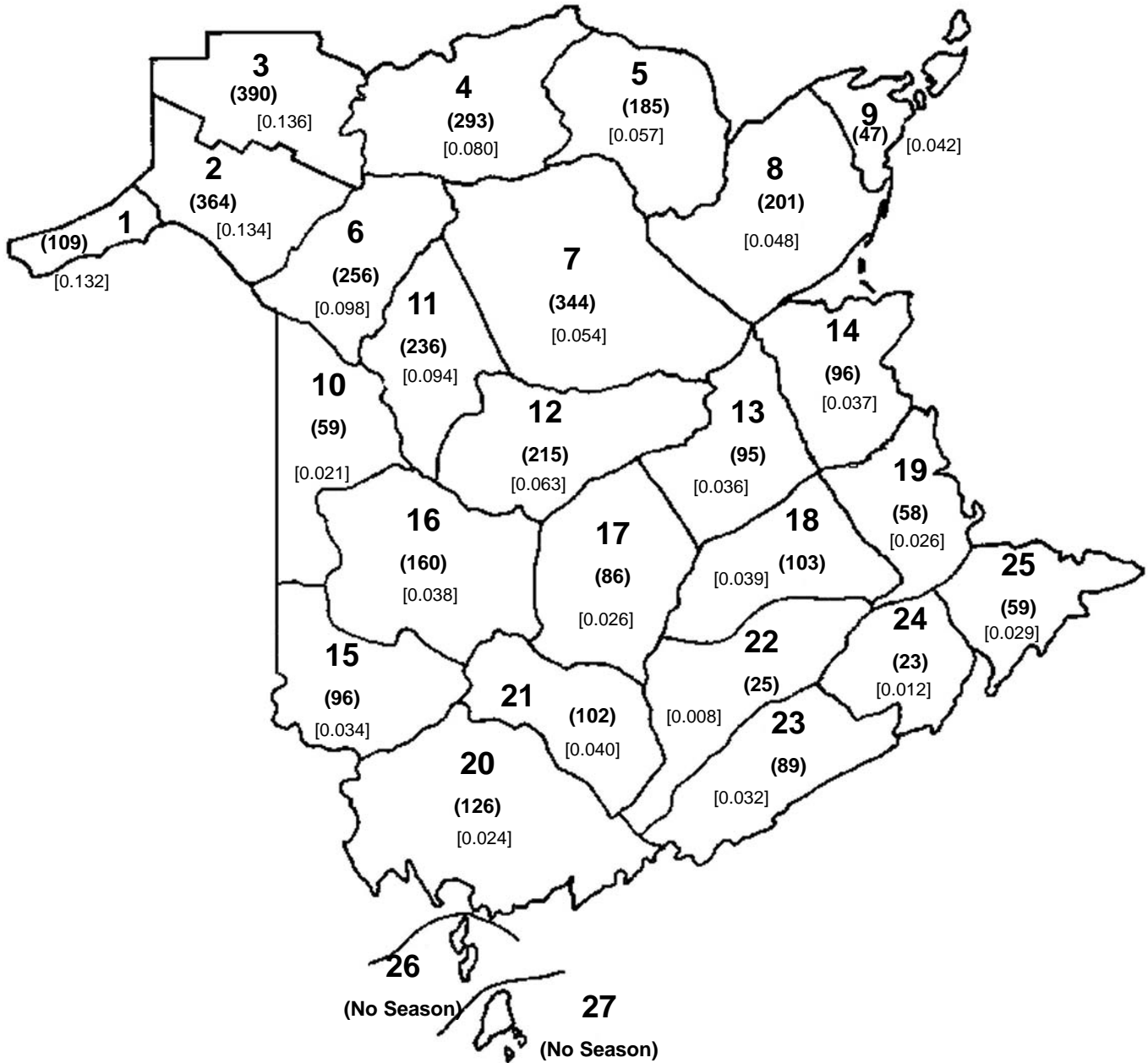
* Weights were obtained from 1017 moose registered at Fredericton and Edmundston, 1986 - 1989 & at Fredericton 1995 - 2000.

** To convert "pounds" to "kilograms", multiply by 0.45.

REGISTERED MOOSE HARVEST BY WILDLIFE MANAGEMENT ZONE

NEW BRUNSWICK 2017

TOTAL HARVEST (#) and HARVEST PER KM² []



A total of 3,817 moose registered in 2017.
Harvest per km² for all open zones = 0.051

SEX AND AGE OF MOOSE HARVESTED

1960 - 2017 New Brunswick

[moose season was closed in 1936 and reopened in 1960]

Year	Adult & Yearling		Calf		Unknown	Total
	Bull	Cow	Male	Female		
1960 ^a	174	0	0	0		174
1961	262	0	0	0		262
1962	297	0	0	0		297
1963	296	0	0	0		296
1964	307	0	0	0		307
1965	314	0	0	0		314
1966 ^b	n/a	n/a	n/a	n/a	606	606
1967	n/a	n/a	n/a	n/a	469	469
1968	472	192	33	27		724
1969	455	191	29	32		707
1970	547	236	24	51		858
1971	574	273	38	46		931
1972	702	261	35	45		1,043
1973	745	296	40	46		1,127
1974	680	284	57	64		1,085
1975	607	284	25	53		969
1976	716	298	53	64		1,131
1977	773	370	46	57		1,246
1978	936	480	58	71		1,547
1979	800	444	50	66		1,360
1980	770	357	49	54		1,230
1981	874	388	63	111		1,436
1982	844	370	60	70		1,344
1983	826	360	45	56		1,287
1984	1,008	475	56	79		1,618
1985	880	328	85	53		1,346
1986	1,055	418	71	81		1,625
1987	1,181	497	72	88		1,838
1988	843	413	77	75	65	1,473
1989	1,199	575	81	105	62	2,022
1990	1,048	464	63	73	9	1,657
1991	1,116	492	58	73	14	1,753
1992	1,200	564	64	70	1	1,899
1993	1,238	636	86	84	17	2,061
1994 ^c	1,298	629	72	83	12	2,094
1995	1,387	755	78	84	22	2,326
1996 ^d	1,087	522	60	46		1,715
1997	1,349	640	60	69	3	2,121
1998	1,524	745	70	73	15	2,427
1999	1,321	566	64	71		2,022
2000	1,679	714	77	67		2,537
2001	1,725	708	64	76		2,573
2002	1,372	585	50	64		2,071
2003	1,096	412	24	36		1,568
2004	1,212	507	37	35	3	1,794
2005	1,446	564	35	35	4	2,084
2006	1,678	603	35	46	0	2,362
2007	1,550	489	35	44	2	2,120
2008	1,580	568	40	40	3	2,231
2009	1,720	611	29	49	0	2,409
2010	1,735	666	32	31	10	2,474
2011	1,713	697	29	39	0	2,478
2012	2,571	862	61	53	0	3,547
2013	2,406	849	39	50	2	3,346
2014	2,603	928	28	56	68	3,683
2015	2,593	1042	29	49	16	3,729
2016	2,378	968	27	48	14	3,435
2017	2,767	957	35	45	11	3,815

a Bulls only season from 1960 to 1965

b Either sex hunting began in 1966 to present

c Allocation of hunters by zone

d Designated hunters could accompany principal licence holder for first time.

**SEX AND AGE OF MOOSE HARVESTED
BY WILDLIFE MANAGEMENT ZONE
2017 New Brunswick**

WMZ	MALE				FEMALE				Sex Unknown	Total
	Adult	Yearling	Calf	Age Unknown	Adult	Yearling	Calf	Age Unknown		
1	36	15	0	2	34	18	0	4	0	109
2	155	51	5	10	69	38	9	16	11	364
3	249	37	3	10	64	15	1	9	2	390
4	157	46	3	1	52	25	6	3	0	293
5	100	26	0	2	40	13	3	1	0	185
6	130	49	3	8	35	20	6	5	0	256
7	239	41	3	7	32	18	1	3	0	344
8	112	35	2	4	29	17	1	1	0	201
9	29	4	1	0	10	2	1	0	0	47
10	34	8	2	0	7	5	3	0	0	59
11	133	31	3	5	42	16	2	4	0	236
12	146	24	0	2	27	13	2	1	0	215
13	54	16	2	0	14	7	1	1	0	95
14	53	25	1	1	7	9	0	0	0	96
15	53	17	2	1	16	6	0	1	0	96
16	82	25	1	1	33	14	4	0	0	160
17	42	15	0	2	20	6	1	0	0	86
18	51	22	0	3	20	4	1	2	0	103
19	36	7	1	0	11	1	0	2	0	58
20	86	14	2	0	17	6	1	0	0	126
21	52	21	0	0	15	13	1	0	0	102
22	15	7	0	0	1	1	0	1	0	25
23	50	17	1	1	13	6	1	0	0	89
24	9	3	0	1	4	5	0	1	0	23
25	36	11	0	0	7	5	0	0	0	59
unknown	0	0	0	0	0	0	0	0	0	0
Province	2139	567	35	61	619	283	45	55	13	3817

MOOSE SIGHTINGS PER HOUR HUNTED FOR WILDLIFE MANAGEMENT ZONES 1990 - 2017 New Brunswick

WMZ	Sightings per Hour Hunted																												
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
1	0.03	0.06	0.06	0.04	0.05	0.08	0.07	0.04	0.13	0.12	0.09	0.03	0.03	0.12	0.07	0.13	0.24	0.13	0.17	0.21	0.30	0.17	0.27	0.40	0.25	0.22	0.09	0.09	
2	0.04	0.05	0.04	0.07	0.04	0.07	0.06	0.06	0.07	0.08	0.06	0.11	0.09	0.11	0.13	0.19	0.28	0.19	0.23	0.34	0.24	0.15	0.23	0.21	0.18	0.17	0.11	0.15	
3	0.06	0.05	0.07	0.07	0.05	0.07	0.07	0.08	0.09	0.14	0.12	0.11	0.13	0.14	0.14	0.22	0.43	0.24	0.37	0.80	0.68	0.43	0.62	0.49	0.37	0.36	0.21	0.38	
4	0.05	0.04	0.05	0.04	0.03	0.05	0.05	0.04	0.06	0.05	0.05	0.06	0.07	0.05	0.06	0.05	0.14	0.09	0.11	0.14	0.14	0.10	0.15	0.15	0.17	0.20	0.10	0.14	
5	0.06	0.05	0.05	0.04	0.04	0.08	0.09	0.04	0.08	0.05	0.08	0.06	0.06	0.07	0.10	0.07	0.14	0.08	0.12	0.11	0.11	0.11	0.16	0.12	0.24	0.11	0.12	0.13	
6	0.04	0.04	0.04	0.04	0.06	0.05	0.07	0.05	0.05	0.05	0.06	0.11	0.09	0.10	0.11	0.15	0.20	0.15	0.23	0.21	0.22	0.19	0.21	0.25	0.29	0.15	0.09	0.12	
7	0.05	0.04	0.05	0.04	0.07	0.08	0.08	0.06	0.07	0.07	0.09	0.08	0.08	0.08	0.11	0.10	0.24	0.19	0.21	0.23	0.21	0.17	0.30	0.26	0.18	0.19	0.16	0.14	
8	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.05	0.05	0.04	0.05	0.07	0.07	0.10	0.08	0.08	0.08	0.07	0.06	0.13	0.10	0.07	0.14	0.06	0.08	
9	0.04	0.04	0.02	0.07	0.01	0.05	0.10	0.08	0.01	0.05	0.05	0.10	0.09	0.07	0.08	0.04	0.17	0.07	0.04	0.10	0.08	0.09	0.09	0.10	0.10	0.17	0.12	0.08	
10	0.05	0.06	0.08	0.06	0.07	0.07	0.08	0.05	0.08	0.07	0.10	0.07	0.10	0.19	0.11	0.10	0.47	0.21	0.37	0.14	0.13	0.11	0.19	0.20	0.18	0.20	0.10	0.14	
11	0.04	0.06	0.07	0.06	0.06	0.08	0.07	0.05	0.06	0.07	0.09	0.10	0.06	0.19	0.13	0.19	0.22	0.22	0.29	0.26	0.25	0.21	0.30	0.28	0.19	0.16	0.09	0.19	
12	0.05	0.04	0.06	0.05	0.06	0.06	0.04	0.06	0.08	0.04	0.07	0.15	0.07	0.07	0.13	0.09	0.16	0.15	0.16	0.14	0.28	0.11	0.30	0.20	0.18	0.23	0.09	0.11	
13	0.03	0.03	0.04	0.05	0.06	0.07	0.04	0.04	0.04	0.04	0.05	0.08	0.03	0.09	0.18	0.09	0.23	0.24	0.17	0.13	0.12	0.10	0.21	0.16	0.07	0.11	0.13	0.12	
14	0.04	0.04	0.05	0.05	0.05	0.05	0.03	0.05	0.03	0.03	0.06	0.05	0.03	0.06	0.08	0.06	0.18	0.08	0.18	0.09	0.08	0.06	0.16	0.08	0.12	0.09	0.05	0.07	
15	0.05	0.07	0.07	0.07	0.05	0.08	0.06	0.06	0.08	0.06	0.08	0.08	0.07	0.13	0.12	0.10	0.16	0.09	0.26	0.14	0.09	0.13	0.11	0.16	0.22	0.12	0.07	0.13	
16	0.03	0.05	0.05	0.05	0.04	0.06	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.10	0.16	0.13	0.17	0.12	0.11	0.21	0.18	0.07	0.25	0.18	0.14	0.10	0.09	0.10	
17	0.05	0.05	0.05	0.05	0.03	0.04	0.04	0.05	0.05	0.05	0.03	0.11	0.06	0.19	0.37	0.11	0.10	0.09	0.17	0.13	0.16	0.12	0.24	0.09	0.15	0.11	0.08	0.14	
18	closed	closed	closed	closed	0.05	0.05	0.03	0.03	0.03	0.05	0.06	0.04	0.04	0.06	0.07	0.05	0.09	0.07	0.07	0.08	0.07	0.06	0.09	0.08	0.06	0.09	0.03	0.04	
19	0.03	0.03	0.02	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.02	0.05	0.04	0.06	0.07	0.04	0.13	0.13	0.10	0.07	0.07	0.08	0.13	0.09	0.07	0.07	0.06	0.05	
20	0.04	0.05	0.06	0.06	0.04	0.06	0.07	0.05	0.05	0.04	0.07	0.07	0.07	0.07	0.08	0.06	0.12	0.07	0.08	0.04	0.05	0.05	0.09	0.06	0.06	0.12	0.06	0.06	
21	0.04	0.06	0.06	0.06	0.05	0.06	0.06	0.07	0.08	0.05	0.10	0.05	0.06	0.08	0.05	0.12	0.09	0.08	0.09	0.07	0.06	0.05	0.10	0.08	0.06	0.03	0.05	0.09	
22	0.02	0.03	0.02	0.02	0.01	0.03	0.02	0.07	0.01	0.02	0.01	0.02	0.03	0.04	0.04	0.02	0.09	0.02	0.17	0.04	0.02	0.04	0.04	0.03	0.02	0.05	0.02	0.03	
23	0.04	0.05	0.05	0.05	0.05	0.07	0.06	0.07	0.06	0.05	0.07	0.06	0.07	0.04	0.08	0.10	0.18	0.09	0.15	0.11	0.09	0.09	0.08	0.08	0.05	0.04	0.03	0.07	
24	closed	closed	closed	closed	0.05	0.11	0.06	0.14	0.08	0.07	0.10	0.10	0.09	0.06	0.05	0.09	0.18	0.14	0.10	0.13	0.07	0.06	0.13	0.11	0.09	0.05	0.10	0.08	
25	0.04	0.03	0.04	0.04	0.04	0.03	0.05	0.05	0.04	0.02	0.04	0.03	0.02	0.04	0.08	0.04	0.10	0.09	0.19	0.13	0.05	0.04	0.14	0.09	0.04	0.05	0.04	0.10	
26	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed
27	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed	closed
Province	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.05	0.06	0.05	0.07	0.07	0.06	0.08	0.09	0.09	0.17	0.12	0.16	0.15	0.14	0.12	0.19	0.16	0.14	0.15	0.09	0.13	

DEER HARVEST REPORT - 2017

Summary

The 2017 deer hunting season had a harvest of 6,441 deer, a 20% increase over 2016. The Antlerless Deer Permits had been increased by 17% to 2,100 permits for 2017. The winter of 2017 was average compared to the long-term, but the winter of 2016 was much milder than average, and combined, the two winters had good fawn survival, allowing for some growth in the deer population across the province.

Resident hunters had a harvest success rate of 14%, while non-residents had a harvest success rates of 11%. Hunters with Antlerless Deer Permits had better success rates of 38% because of their ability to harvest a deer of either sex.

During the gun season, the harvest was spread with 28% of the harvest occurring in the first week, and between 22 to 25% in the remaining 3 weeks. There were 746 deer (12% of the harvest) taken on the three Sundays that were open for hunting during the season. A total of 85% of the harvest were bucks, 12% adult females, and 2% fawns.

In 2017 there were 2,100 Antlerless Deer Permits made available; 300 more than in 2016. A total of 8,824 resident hunters applied for the computerized tag draw, of which 2,157 were successful. Hunters with antlerless deer tags harvested 817 deer in the 2017 season. Of the successful antlerless permit holders, 63% harvested antlerless deer and 36% harvested adult bucks.

A total of 45,443 residents and 335 non-residents purchased licences to hunt white-tailed deer. Total licence sales were 45,778, which was 936 fewer than 2016 sales; 9% below the long-term average. New Brunswick residents harvested 99% of the total deer kill, while non-residents harvested 1%.

2018 Synopsis

The NB deer herd had a population increase in 2017, the second year in a row. The provincial harvest has increased by 50% since 2015. More 2 and 3 year old bucks were taken this year because of good fawn winter survival in the previous winters. The winter of 2018 was slightly more severe than the 10 year average at a provincial level, but it was highly variable from south to north. Northern zones experienced much more severe conditions than the average, while southern zones had milder conditions. Overall, it is predicted the deer population will continue to grow and we'll see another increase in the deer harvest in 2018.

This year's report includes provincial deer population estimates since 1970. These estimates are based on hunter effort and hunter success rates with limited statistical strength. These estimates should be used as trend indicators than as total population size. These figures may change in future years as models improve.

DEER LICENCE SALES AND HARVESTS

New Brunswick 1968 - 2017

YEAR	LICENCES SOLD				HARVESTS								Estimated Prehunt Population *
	RESIDENT GUN	NON-RES. GUN	TOTAL BOW	TOTAL	RESIDENT GUN SEASON	NON-RES. GUN SEASON	TOTAL BOW	TOTAL CROSSBOW	Nuisance Harvest (Gun & Archery)	UNK	TOTAL HARVEST	Hunter Success Rate	
1968	51,615	2,553		54,168	20,516	2,126					22,642	42%	na
1969	54,346	2,930		57,276	15,192	1,745					16,937	30%	na
1970 ^a	56,350	2,495		58,845	5,749	568					6,335	11%	70,150
1971	59,060	2,171		61,231	3,981	398					4,379	7%	49,148
1972	55,151	2,055		57,206	4,455	500					4,955	9%	57,249
1973	69,913	2,162		72,075	3,856	417					4,273	6%	41,831
1974	66,226	2,382		68,608	5,959	577					6,536	10%	66,536
1975	65,763	1,622		67,385	5,164	390					5,554	8%	57,389
1976	78,331	1,581		79,912	6,927	457					7,384	9%	68,526
1977	87,812	1,938		89,750	8,431	506					8,937	10%	78,434
1978	96,671	1,068		97,739	10,390	335					10,725	11%	91,767
1979	98,807	1,271		100,078	12,958	386					13,344	13%	116,696
1980	96,674	1,761		98,435	17,710	634					18,344	19%	167,811
1981	104,896	2,297		107,193	20,905	867					21,772	20%	197,156
1982	114,330	2,749	852	117,931	21,830	827	42				22,699	19%	200,264
1983	111,148	3,134	1,120	115,402	25,833	1,286	46				27,165	24%	246,532
1984	109,873	4,118	1,143	115,134	24,593	1,423	67				26,083	23%	235,831
1985	109,708	4,801	1,195	115,704	29,329	1,799	77				31,205	27%	286,894
1986	108,722	6,563	1,390	116,675	25,982	2,080	77				28,139	24%	255,571
1987	107,256	6,737	1,569	115,564	24,500	1,974	98				26,572	23%	240,489
1988	94,260	6,366	1,424	102,050	18,210	1,531	64				19,805	19%	180,386
1989	95,486	5,670	1,121	102,277	18,294	1,234	102			89	19,719	19%	179,392
1990 ^b	82,002	3,850	984	86,836	10,830	520	32			98	11,480	13%	105,630
1991	82,391	2,856	900	86,147	11,623	401	64			90	12,178	14%	112,609
1992	80,592	2,557	917	84,066	10,929	290	71			63	11,353	14%	105,953
1993	70,185	2,113	1,072	73,370	9,726	289	76			43	10,134	14%	99,891
1994	86,162	2,152	1,048	89,362	9,811	277	86			42	10,216	11%	91,491
1995	76,030	1,911	901	78,842	10,473	267	94			20	10,944	14%	104,862
1996	71,820	1,619	855	74,294	11,620	331	105			87	12,143	16%	119,475
1997	65,505	1,776	922	68,203	12,084	354	92			20	12,550	18%	127,112
1998	64,165	1,653	902	66,720	9,792	292	80			35	10,199	15%	104,378
1999	63,940	1,780	922	66,642	9,041	218	57				9,316	14%	95,564
2000	59,708	1,514	904	62,126	8,100	160	52			0	8,312	13%	88,094
2001	54,791	1,188	n/a	55,979	4,160	110	44				4,314	8%	60,872
2002	50,729	1,050	n/a	51,779	6,225	175	43				6,443	12%	79,258
2003	49,634	1,030	n/a	50,664	5,499	147	87				5,733	11%	73,186
2004	50,090	1,043	n/a	51,133	6,633	165	80				6,878	13%	79,730
2005	48,804	989	n/a	49,793	6,635	152	94				6,881	14%	86,623
2006	51,652	947	n/a	52,599	9,251	187	131			1	9,570	18%	104,572
2007	52,735	988	n/a	53,723	10,233	179	158				10,570	20%	117,800
2008	52,152	829	n/a	52,981	7,480	138	162				7,780	15%	80,842
2009	49,629	626	n/a	50,255	4,836	73	151				5,060	10%	59,045
2010	47,449	529	n/a	47,978	4,938	55	108				5,101	11%	64,891
2011	46,038	395	n/a	46,433	4,600	47	135	11	0	0	4,793	10%	64,457
2012	47,110	424	n/a	47,534	5,802	57	207	27	0	0	6,093	13%	75,370
2013	49,240	374	n/a	49,614	7,781	71	263	29	0	17	8,161	16%	89,033
2014	49,102	374	n/a	49,476	6,452	67	270	42	104	0	6,935	14%	79,336
2015	48,521	318	n/a	48,839	3,930	37	217	35	146	13	4,378	9%	57,678
2016	46,381	333	n/a	46,714	4,880	56	248	77	123	2	5,386	12%	84,036
2017	45,443	335	n/a	45,778	5,742	38	254	141	263	3	6,441	14%	85,091

a Mandatory registration begins; limit reduced from 2 to 1 deer

b WMZs / Antlerless Deer Permit System begins.

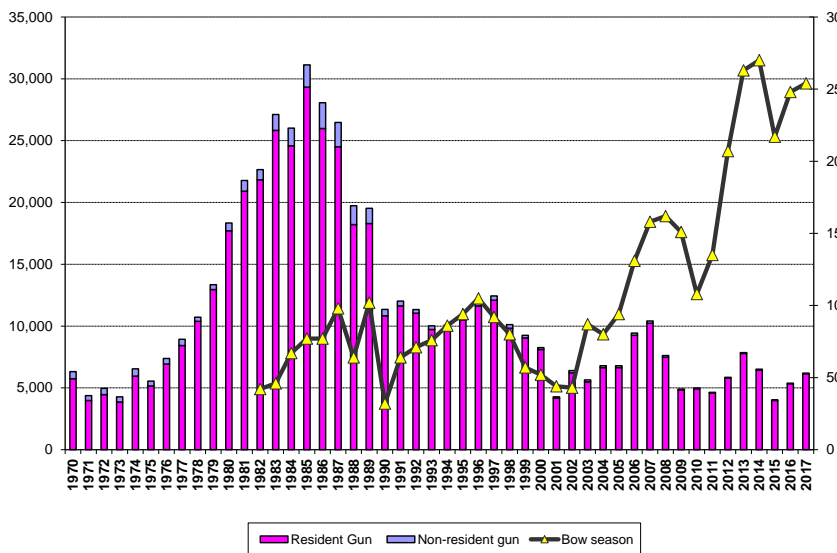
* Population estimates have high variance and are best used as trend indicators. Estimates may vary in future depending on model inputs.

DEER HARVEST (Gun & Bow)

1980-2017 New Brunswick

Regular Season Harvest

Bow Season Harvest



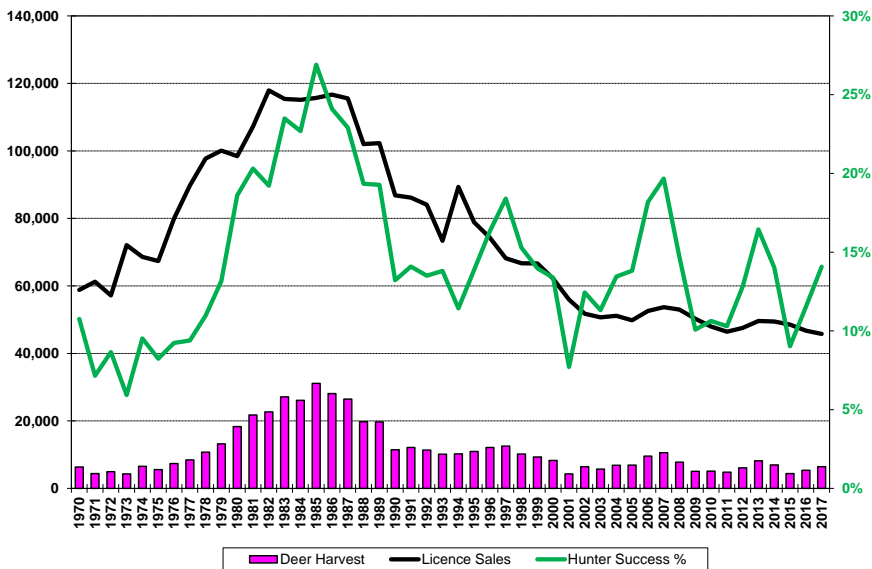
- Bow season began in 1982

DEER HARVEST, DEER LICENCE SALES AND DEER HUNTER SUCCESS %

1970-2017 New Brunswick

Deer Harvest and Licence Sales

Success%



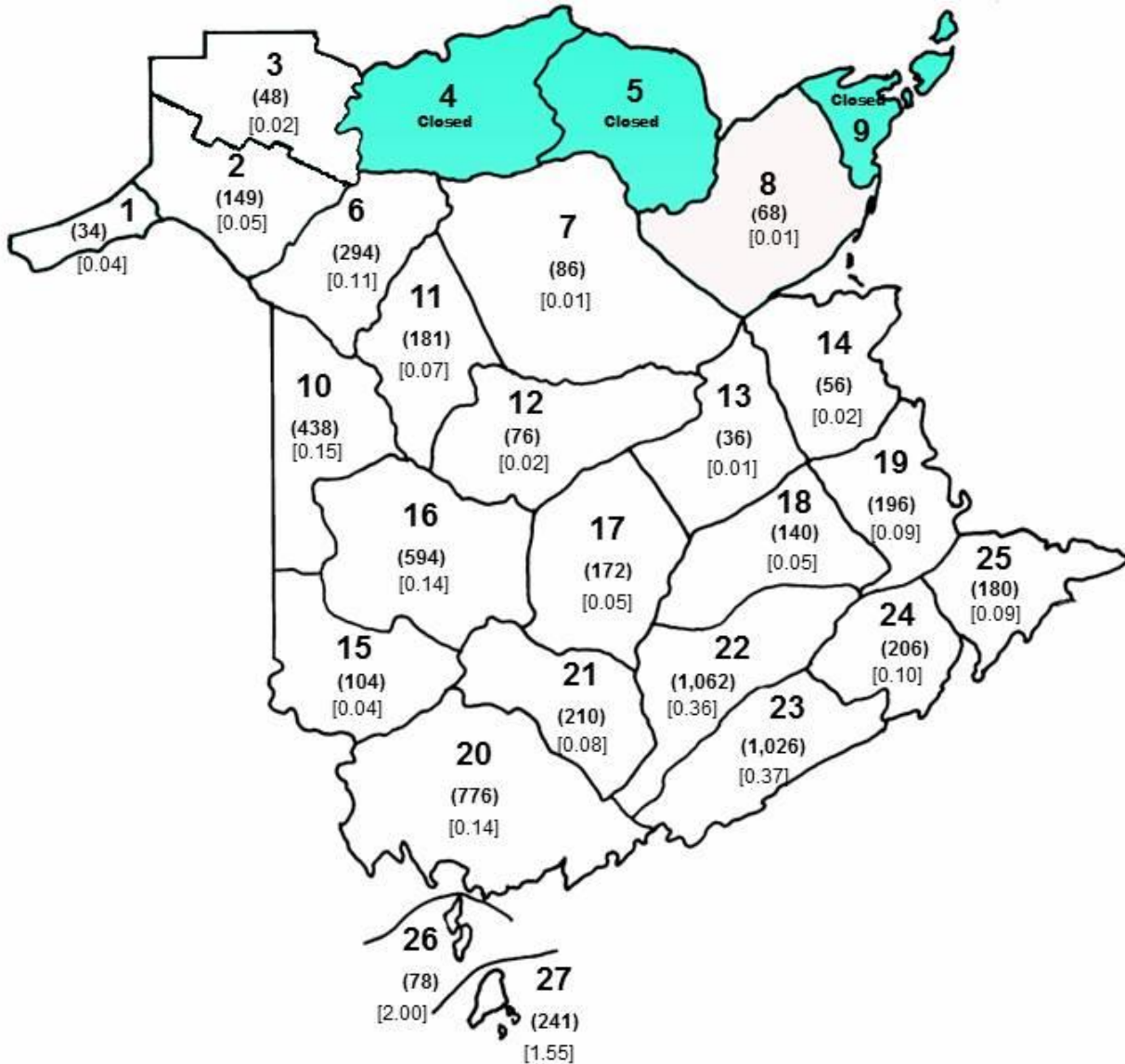
REGISTERED DEER KILL BY WILDLIFE MANAGEMENT ZONE 2017 NEW BRUNSWICK

WMZ	ADULT MALES	ADULT FEMALES	FAWN MALES	FAWN FEMALES	TOTAL HARVEST	2016 HARVEST
1	34				34	30
2	148		1		149	157
3	48				48	40
4		Closed Season			0	
5		Closed Season			0	
6	290	1	3		294	271
7	84	2			86	92
8	67	1			68	57
9		Closed Season			0	
10	407	26	4	1	438	348
11	178	3			181	158
12	75		1		76	86
13	36				36	36
14	55		1		56	56
15	102	1	1		104	141
16	494	76	7	17	594	564
17	168	1	3		172	159
18	138	2			140	112
19	188	6	1	1	196	144
20	644	102	12	8	766	585
21	204	2	4		210	170
22	848	189	17	8	1,062	835
23	718	261	18	29	1,026	784
24	203	3			206	156
25	178		2		180	152
26	60	15	1	2	78	49
27	132	86	11	12	241	204
UNKNOWN						
TOTAL	5,499	777	87	78	6,441	5,386

REGISTERED DEER HARVEST BY WILDLIFE MANAGEMENT ZONE

NEW BRUNSWICK 2017

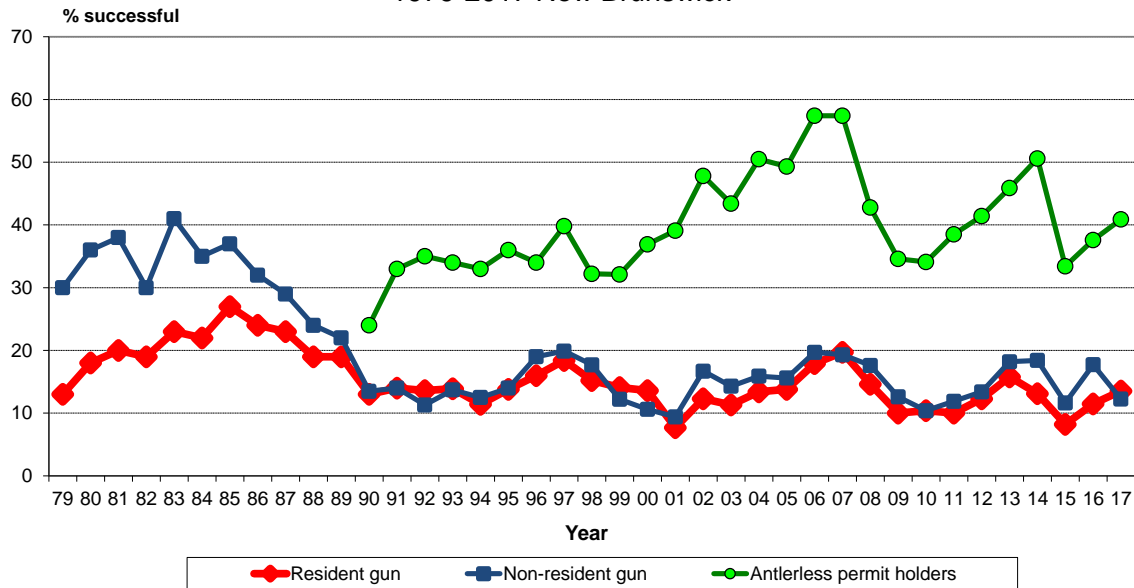
TOTAL HARVEST (#) and HARVEST PER KM² []



A total of 6,441 deer registered.
Provincial kill per km² = 0.1 (in open zones)

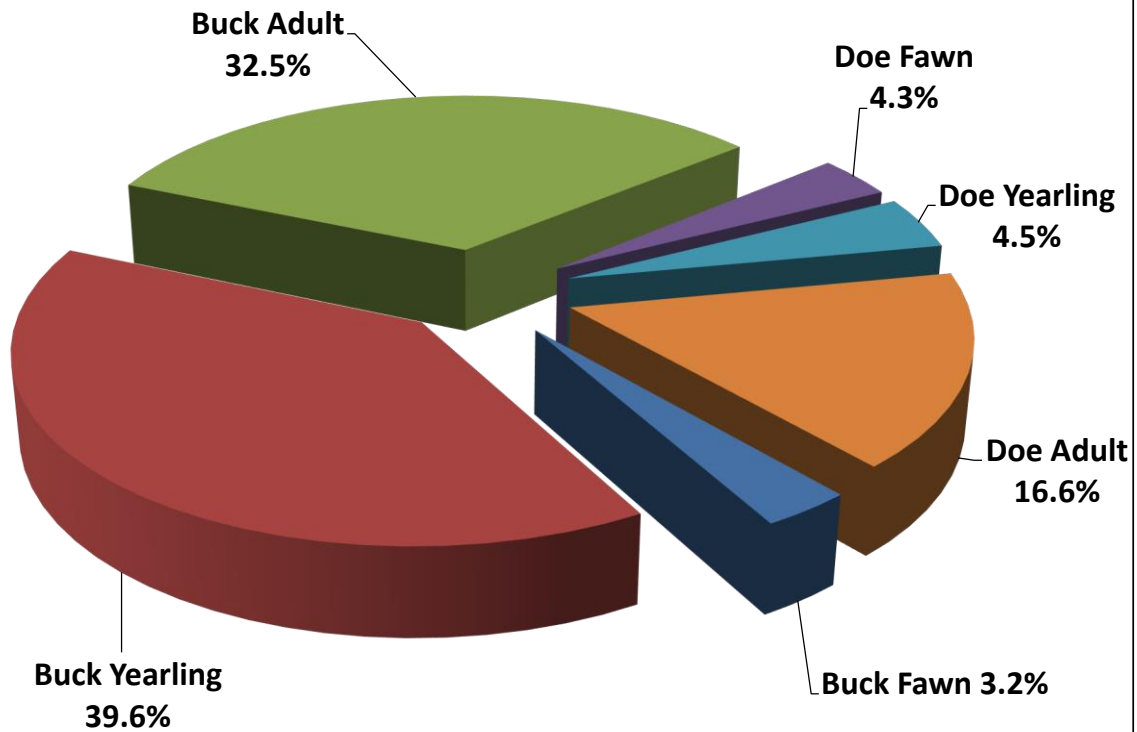
DEER HUNTER SUCCESS RATES

1979-2017 New Brunswick

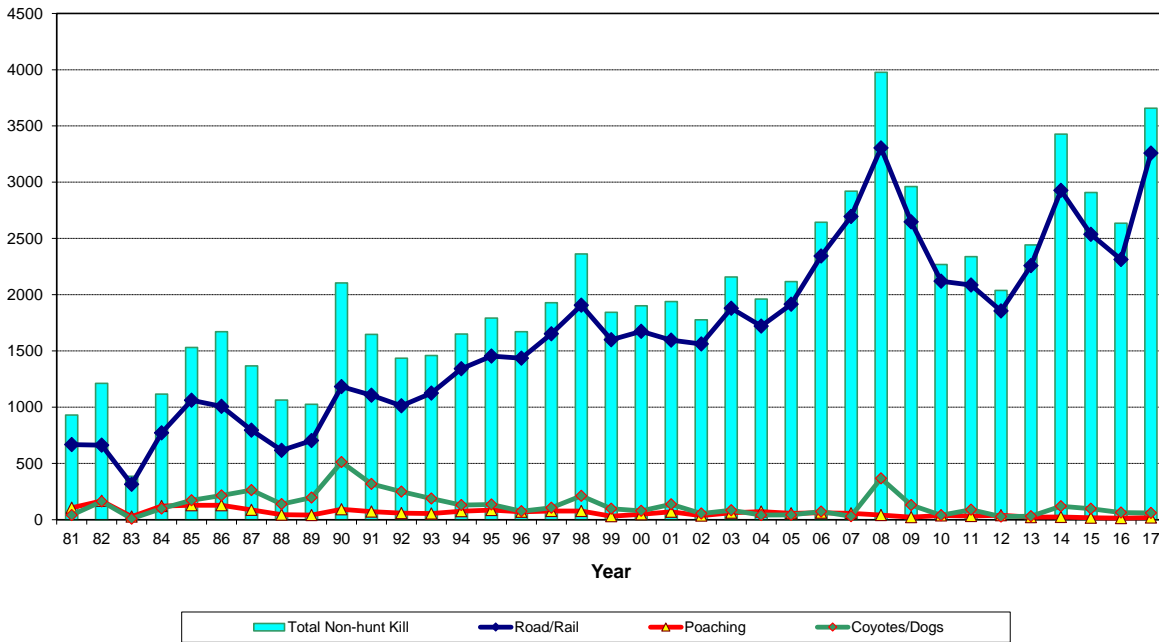


Antlerless permit system began in 1990

Age and Sex Structure of 2017 Deer Harvest

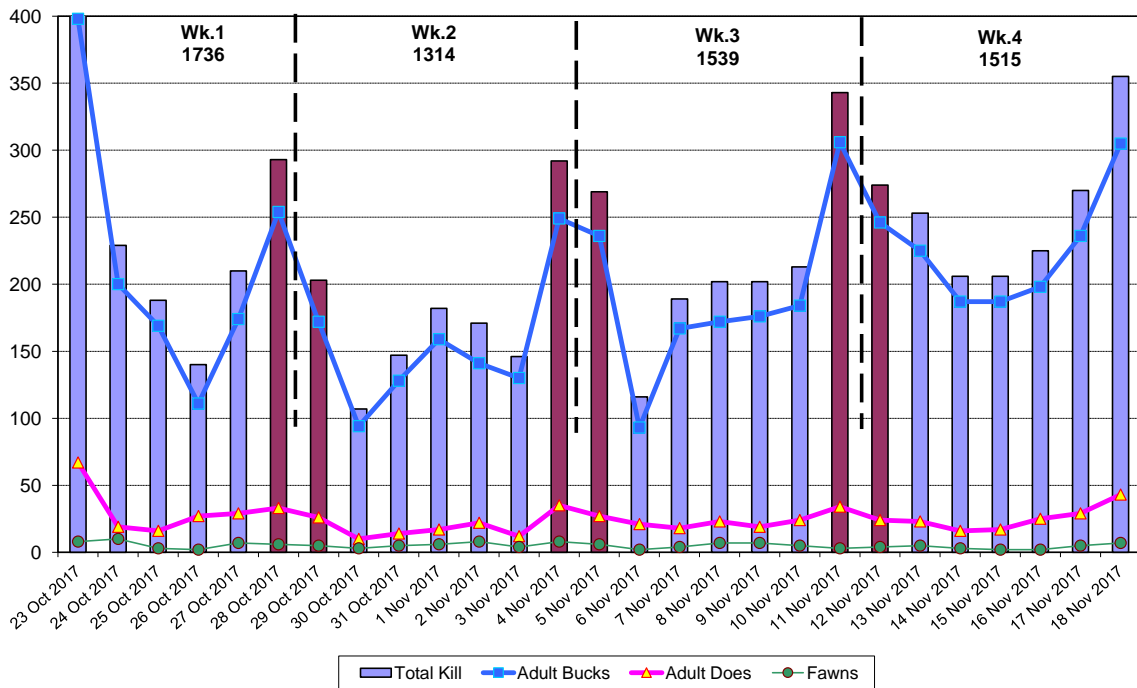


REPORTED NON-HUNTING DEER MORTALITY 1981-2017 New Brunswick



- reported and handled by DNR staff

DAILY DEER KILL - FIREARMS SEASON 2017 New Brunswick



- total of 6,104 deer registered in firearm season
 - Saturday & Sunday (dark columns)

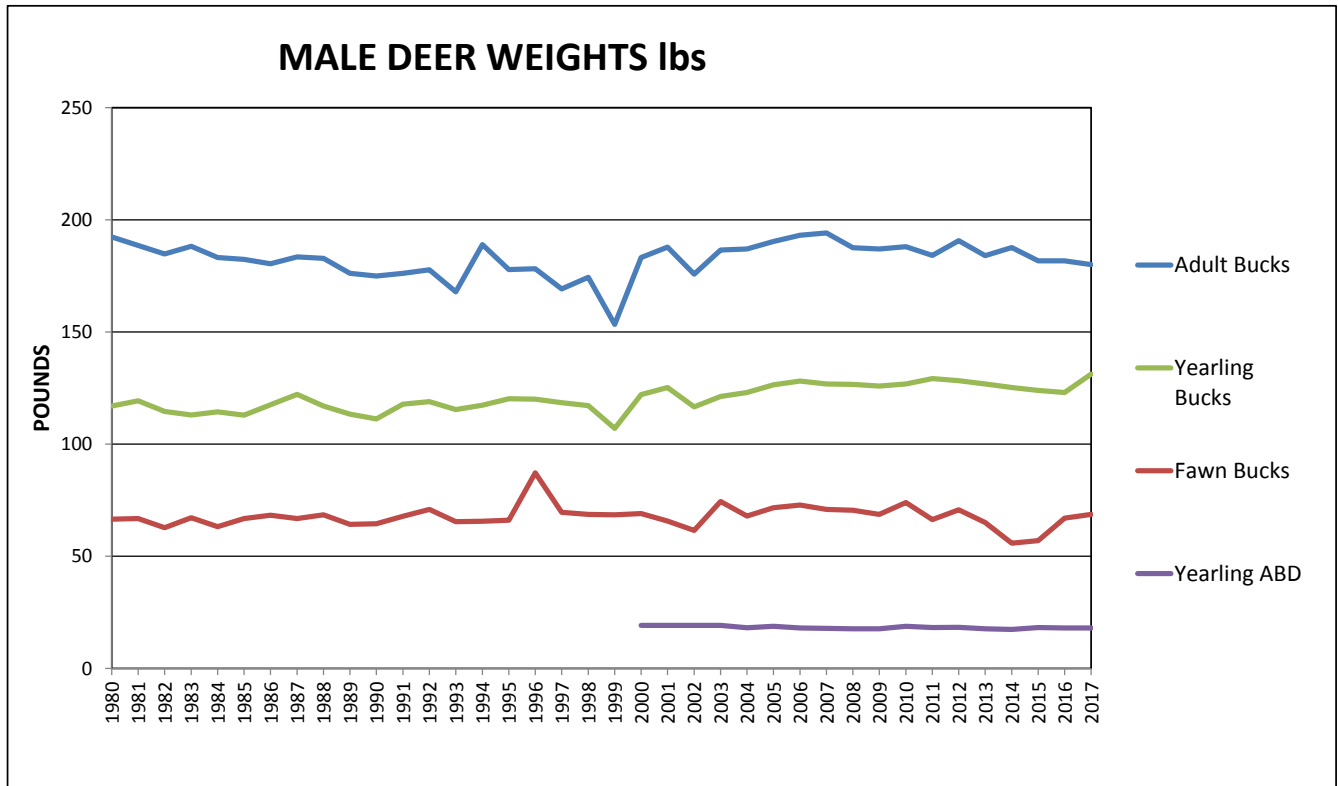
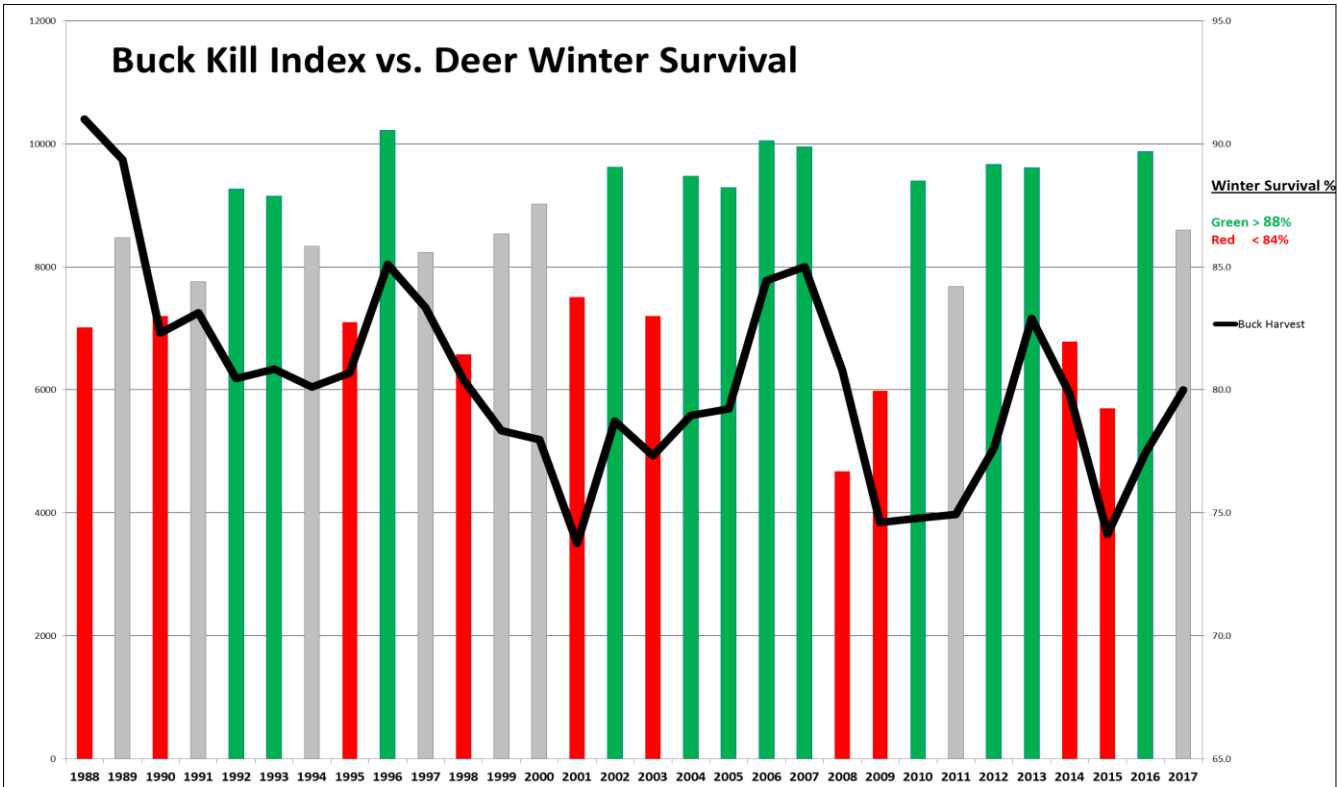
**ANTLERLESS DEER TAG DRAW
2017 SUMMARY
New Brunswick**

WMZ	Quota	Applications	Drawn	% Successful Applicant
1	0	0	0	n/a
2	0	0	0	n/a
3	0	0	0	n/a
4	SEASON CLOSED			n/a
5	SEASON CLOSED			n/a
6	0	0	0	n/a
7	0	0	0	n/a
8	0	0	0	n/a
9	SEASON CLOSED			n/a
10	50	860	55	6.4%
11	0	0	0	n/a
12	0	0	0	n/a
13	0	0	0	n/a
14	0	0	0	n/a
15	0	0	0	n/a
16	100	1,205	105	8.7%
17	0	0	0	n/a
18	0	0	0	n/a
19	0	0	0	n/a
20	200	1,127	212	18.8%
21	0	0	0	n/a
22	700	3,181	727	22.9%
23	600	1,951	606	31.1%
24	0	0	0	n/a
25	0	0	0	n/a
26	50	72	52	72.2%
27	400	428	400	93.5%
TOTALS	2,100	8,824	2,157	24.4%

**ANTLERLESS DEER TAG DRAW
2000 - 2017 SUMMARY
New Brunswick**

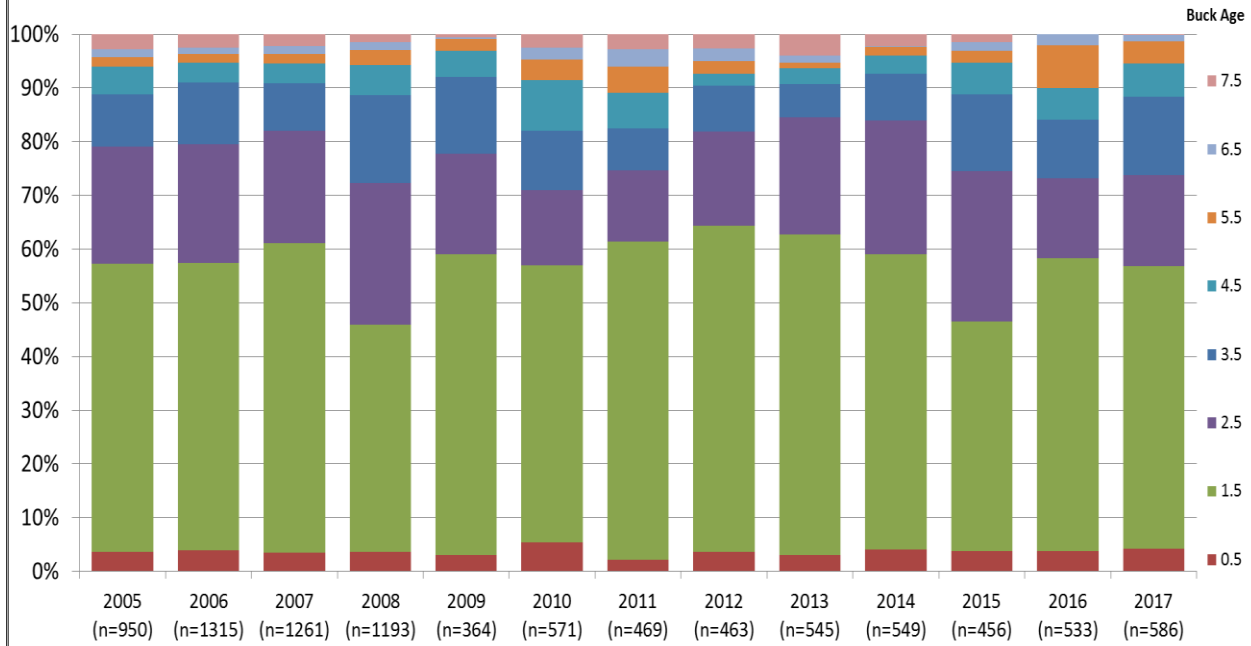
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	100	100	150	300	0	0	0	0	0	0	0	0	0	0
125	50	50	50	50	50	50	100	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	50	50	50	300	250	400	600	0	0	0	0	0	0	0	0	0	50
0	0	0	0	100	100	100	200	0	0	0	0	0	0	0	0	0	0
375	50	50	0	50	50	50	50	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
265	100	100	100	100	100	150	150	150	100	100	50	0	0	0	0	0	0
1300	300	300	200	240	300	400	700	400	200	100	50	100	100	50	50	50	100
500	200	100	75	100	100	100	150	150	100	100	50	50	50	50	50	0	0
1200	200	200	200	230	230	200	200	100	100	100	50	50	50	50	50	0	0
350	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0
1410	200	100	100	100	100	100	100	200	200	100	0	0	0	100	100	100	200
785	200	200	200	250	250	300	400	400	200	200	200	200	200	100	50	0	0
3000	500	500	500	580	600	1000	1600	2000	2200	2000	1000	1500	1500	1000	800	600	700
1000	100	100	100	130	150	400	700	1000	1000	1500	1000	1000	1000	800	600	600	600
600	50	50	50	50	50	50	50	50	100	100	50	50	50	50	50	0	0
700	80	80	80	50	50	50	100	0	0	0	0	0	0	0	0	0	0
45	45	45	45	50	50	50	50	50	50	50	50	50	50	50	50	50	50
500	500	500	500	500	600	500	500	500	500	500	400	450	450	450	450	400	400
12305	2675	2475	2300	3030	3180	4100	6000	5000	4750	4850	2900	3450	3450	2700	2250	1800	2100

NO PERMITS AVAILABLE
SEASON CLOSED



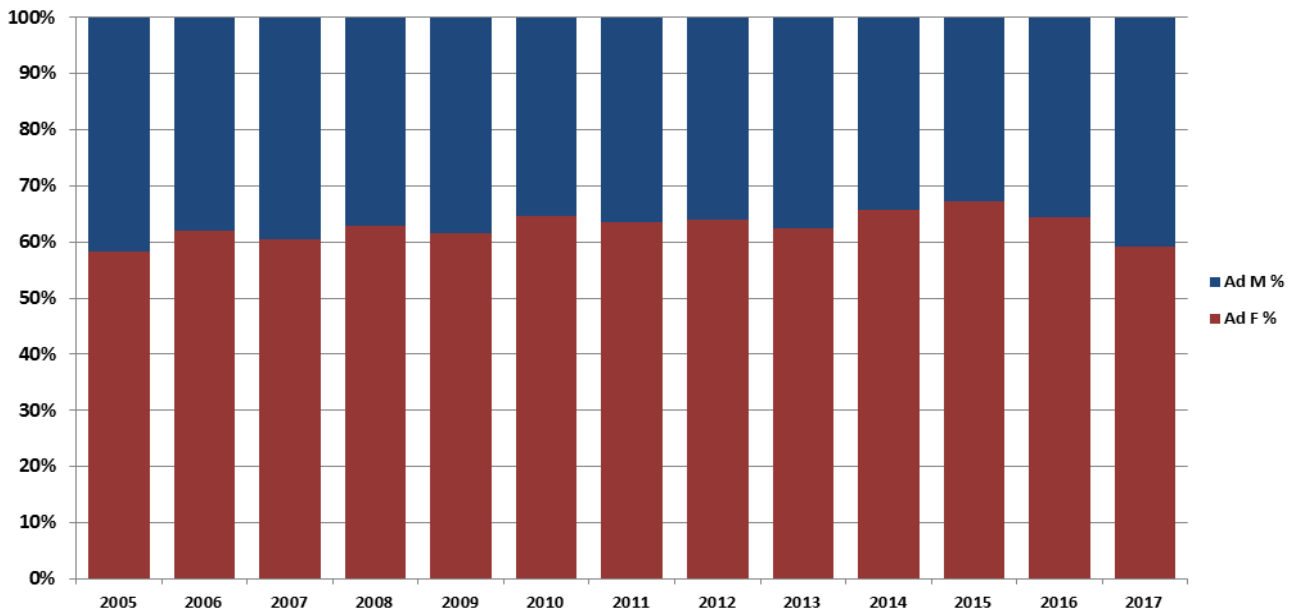
Buck Weights indicate habitat carrying capacity
 ABD = Antler Beam Diameter; an indicator of carrying capacity.

BUCK AGE CLASS FROM HARVESTED DEER
New Brunswick 2005 - 2017



ADULT DEER BUCK TO DOE RATIOS
New Brunswick 2005-2017

From annual roadkill data.



BLACK BEAR HARVEST REPORT – 2017

Summary

Hunters harvested a total of 1,928 black bears during New Brunswick's 2017 hunting seasons. 1,352 bears were taken in the spring season, 576 were taken during the fall gun season, and 8 were taken during the fall bow-only season in September. Of the 25 Wildlife Management Zones (WMZ's) that have black bear populations, 9 WMZ's (5,6, 7,10,11,12,15, 20 and 21) contributed over 50% of the total harvest.

A total of 7,094 black bear licences were sold in 2017, up by slightly from 2016 (7,066). Of this total, 2,216 were non-resident licences of which only 2,188 were used by non-resident hunters. The non-resident licences sold included 30 that were purchased by outfitters and guides but were unused by their non-resident clients. There were 4,878 New Brunswick residents who purchased bear hunting licences. Non-resident hunters harvested 1,252 bears for a 57% success rate, whereas residents harvested 676 bears for a success rate of 14%. Of the total harvest, 504 animals (26%) were taken by bow hunting.

Of 128 bears reported killed that were not taken by hunters, 104 were killed by motor vehicles and 12 were destroyed as nuisance animals.

2018 Synopsis

New Brunswick's black bear population is currently estimated at more than 16,000 in 2016 animals. Bear hunters should expect to have an average year during the 19 weeks of bear hunting opportunity in 2018.

BLACK BEAR HARVEST STATISTICS 1971 - 2017 New Brunswick

Year	Estimated Population ¹	LICENCES SOLD			Non-Resident Licences Used ^a	BLACK BEAR HARVEST			
		Resident	Non-Resident	Total		Resident	Non-Resident	Unknown/Other ^b	Total
1971		2,357	1,172	3,529		Unknown	Unknown		Unknown
1972		4,827	1,016	5,843		Unknown	Unknown		Unknown
1973		6,156	1,152	7,308		449	161		610
1974		7,783	956	8,739		Unknown	118		Unknown
1975		9,729	871	10,600		Unknown	Unknown		Unknown
1976		11,780	775	12,555		444	190		634
1977		5,459	730	6,189		Unknown	Unknown		Unknown
1978		3,535	470	4,005		Unknown	Unknown		Unknown
1979		5,032	547	5,579		587	190		777
1980		1,326	685	2,011		365	316		681
1981		1,233	790	2,023		180	172		352
1982		1,314	1,282	2,596		330	325		655
1983		1,438	1,420	2,858		352	449		801
1984 ^c		1,649	1,935	3,584		125	455	293	873
1985		1,519	2,124	3,643		133	498	87	718
1986		2,069	2,817	4,886		173	598	38	809
1987		2,130	3,235	5,365		154	770	52	976
1988		2,077	3,342	5,419		200	793	69	1,062
1989		1,119	2,599	3,718		182	798	71	1,051
1990		984	2,413	3,397		212	842	34	1,088
1991		887	1,827	2,714		168	612	36	816
1992		854	1,850	2,704		212	795	46	1,053
1993	8407	1,022	1,980	3,002		288	865	51	1,207
1994	8522	1,193	2,321	3,514		331	980	49	1,360
1995	7544	1,131	2,659	3,790		281	1,103	108	1,491
1996	9195	1,083	2,623	3,706		292	1,077	41	1,410
1997	12718	1,068	2,685	3,695	2,304	254	1,046	30	1,330
1998	10370	1,091	2,584	3,675	2,414	243	1,087	64	1,394
1999	15059	1,263	2,589	3,852	2,357	236	1,198	86	1,520
2000	16558	1,330	3,275	4,605	3,047	352	1,577	80	2,009
2001	17503	1,599	3,199	4,798	2,998	264	1,517	113	1,894
2002	14623	1,808	3,297	5,105	3,106	380	1,525	74	1,979
2003	14503	1,868	3,512	5,380	3,015	293	1,663	87	2,043
2004	14149	1,958	3,609	5,567	3,357	352	1,759	116	2,227
2005	14076	1,920	3,416	5,336	3,225	297	1,681	107	2,085
2006	15390	2,113	3,228	5,341	3,012	359	1,565	113	2,037
2007	15403	2,300	2,899	5,199	2,707	347	1,517	148	2,012
2008	12999	2,569	2,740	5,309	2,380	407	1,357	121	1,885
2009	15365	2,980	2,205	5,185	2,053	459	1,210	162	1,831
2010	14815	3,163	2,145	5,308	1,984	517	1,260	167	1,944
2011	13666	2,956	1,972	4,928	1,915	515	1,090	130	1,735
2012	13755	3,245	1,844	5,089	1,810	473	1,237	161	1,871
2013	12574	3,485	1,818	5,303	1,783	518	1,048	173	1,739
2014		3,968	2,016	5,984	1,965	495	1,179	123	1,797
2015		4,032	2,115	6,147	2,105	549	1,135	108	1,792
2016	16000	4,801	2,265	7,066	2,222	689	1,397	115	2,201
2017		4878	2216	7094	2188	676	1252	128	2056

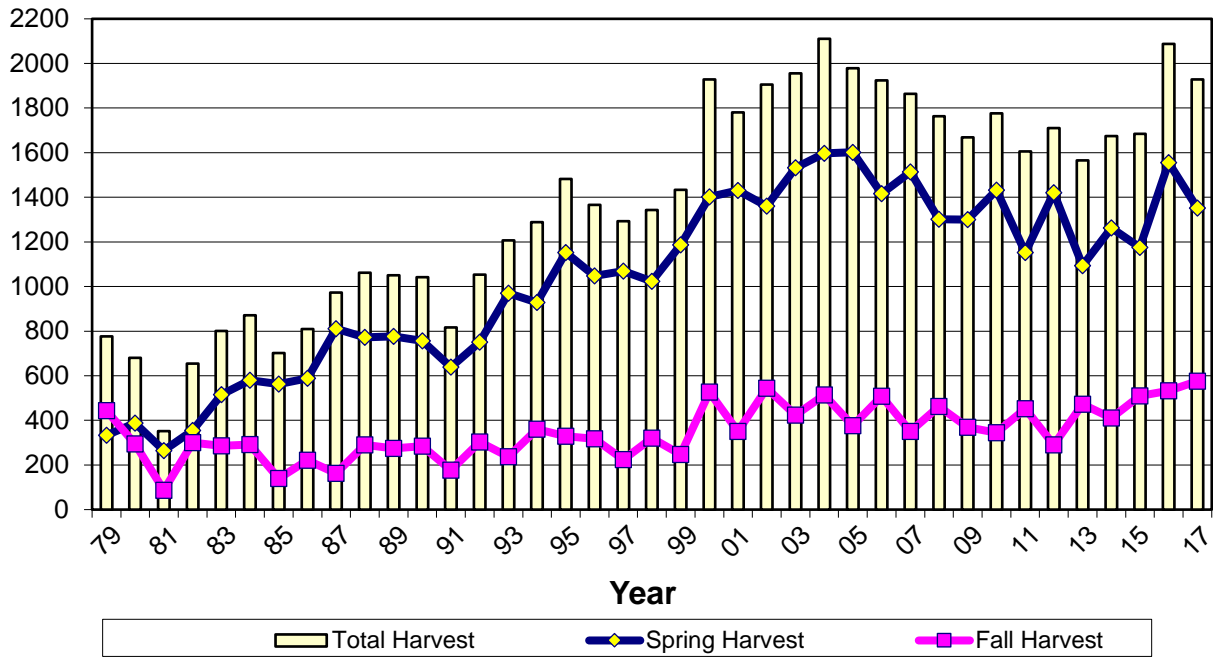
1 - This column represents estimated pre-hunt adult bear population - calculated every 3 years.

a - This column reflects the number of non-resident hunters who actually hunted bears in New Brunswick. Some non-resident bear hunting licences are allocated to outfitters but not all of the purchased licences may actually be used by clients. As well, non-residents will buy licences in advance of their trip and sometimes fail to come to New Brunswick to use them.

b - Refers to animals reported as being killed by motor vehicles, other accidental means such as nuisances or poached.

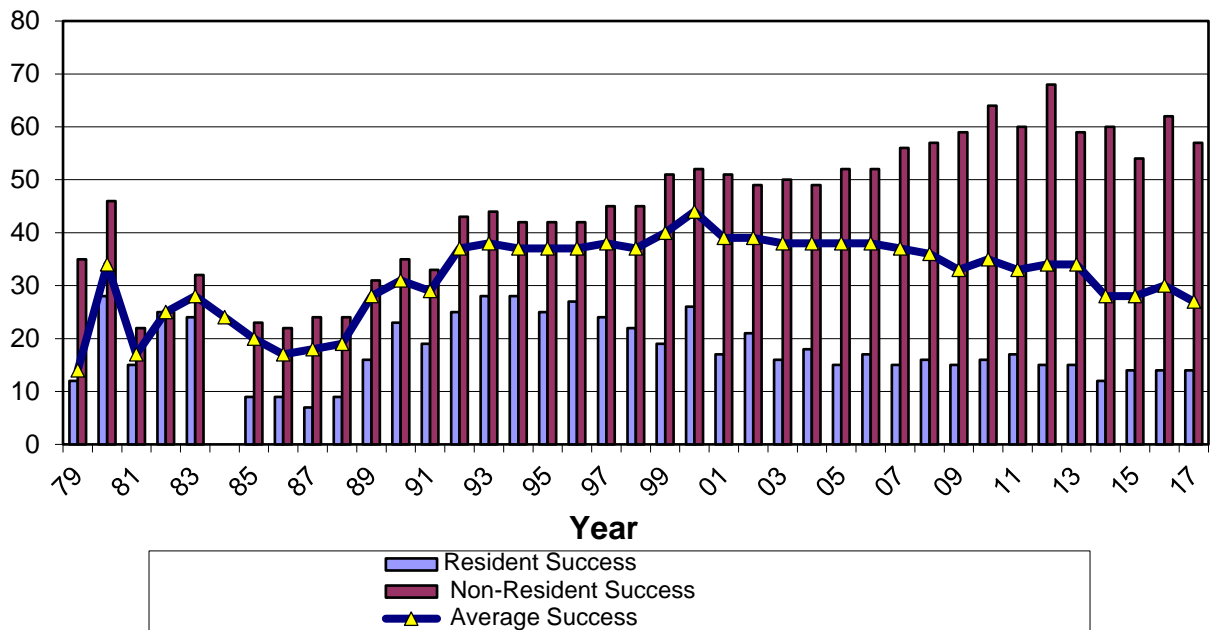
c - Mandatory registration began in fall of 1984.

SPRING AND FALL BLACK BEAR REGISTRATIONS 1979 - 2017 New Brunswick



79-84 kill estimated from hunter survey

BEAR HUNTER SUCCESS (%) 1979 - 2017 New Brunswick (Residents and Non-Residents)

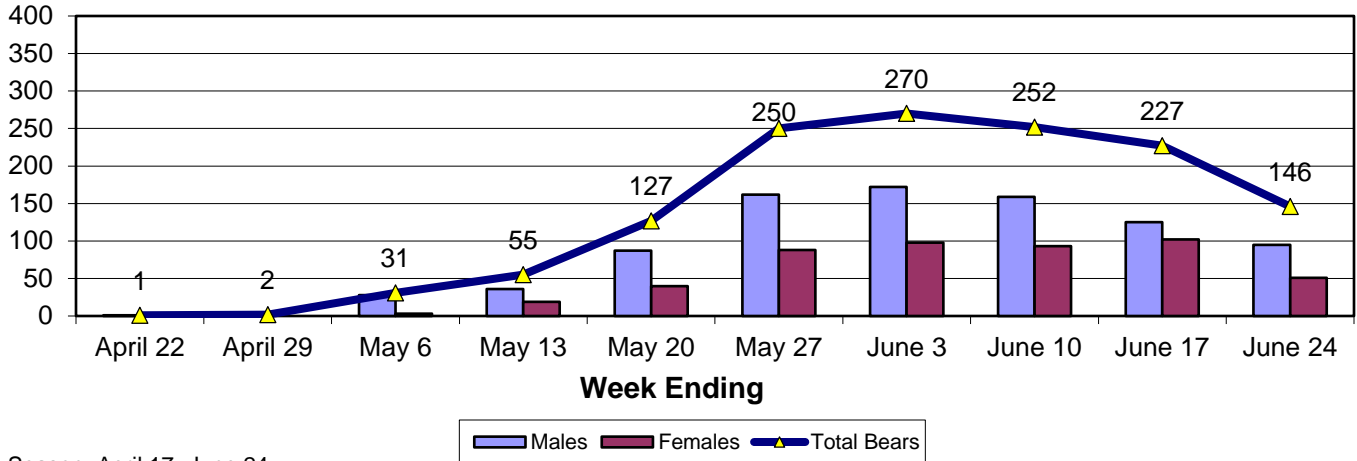


79-84 kill estimated from hunter survey
unknown res./non-res. kill for 1984

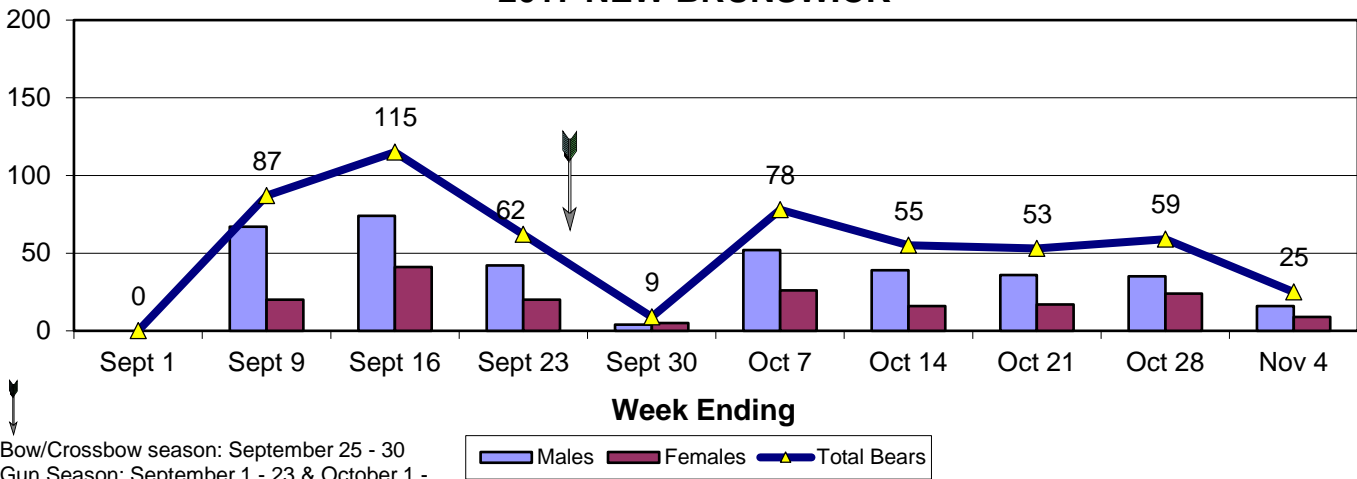
Registered Black Bear Kill by Wildlife Management Zone Hunting Mortality 2017 New Brunswick

WMZ	Area (km ²)	#Males	#Females	Unknown Sex	Kill per km ²	Total Harvest
1	813	9	5	0	0.017	14
2	2666	24	13	0	0.014	37
3	2865	15	12	0	0.009	27
4	3613	39	25	0	0.018	64
5	3206	77	28	0	0.033	105
6	2580	74	31	0	0.041	105
7	6265	88	61	1	0.024	150
8	4116	44	18	0	0.015	62
9	1109	7	1	0	0.007	8
10	2800	50	59	0	0.039	109
11	2536	64	34	0	0.039	98
12	3421	53	38	0	0.027	91
13	2639	58	32	0	0.034	90
14	2357	41	7	0	0.020	48
15	2681	72	39	0	0.041	111
16	4274	51	28	0	0.018	79
17	3056	45	22	0	0.022	67
18	2341	24	14	1	0.017	39
19	2212	46	25	0	0.032	71
20	5255	99	61	0	0.030	160
21	2561	73	37	0	0.043	110
22	2934	44	33	1	0.027	78
23	2538	31	21	0	0.020	52
24	2002	42	20	0	0.031	62
25	2062	56	23	0	0.038	79
26	39	NO OPEN SEASON				
27	155					
Unknown	--	11	1	0	--	12
Province	72,902	1,237	688	3	0.026	1,928

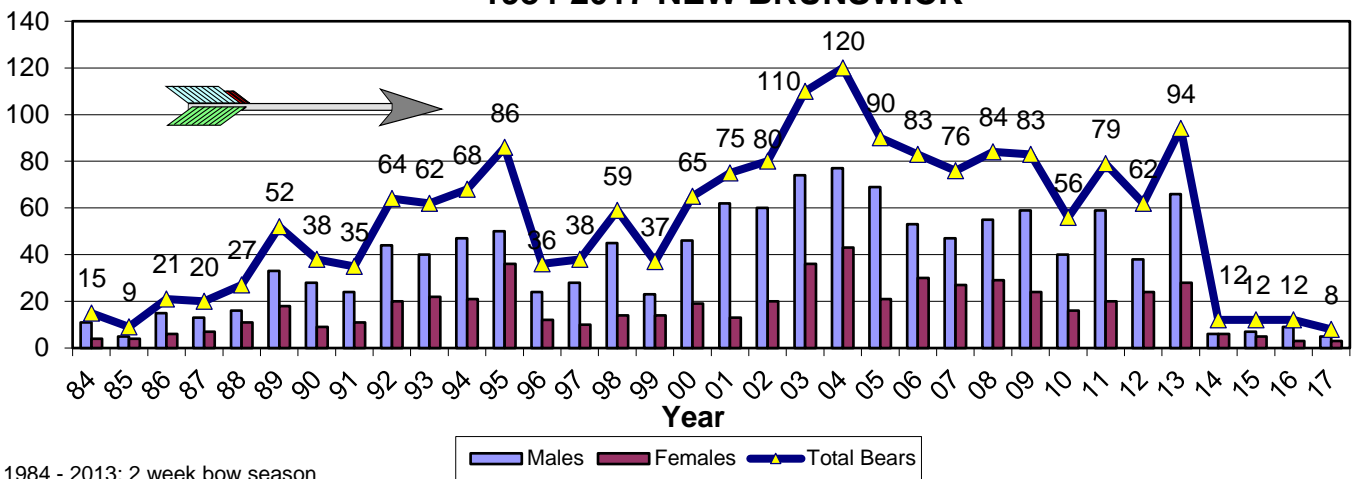
SPRING BLACK BEAR HARVEST BY WEEK OF KILL 2017 NEW BRUNSWICK



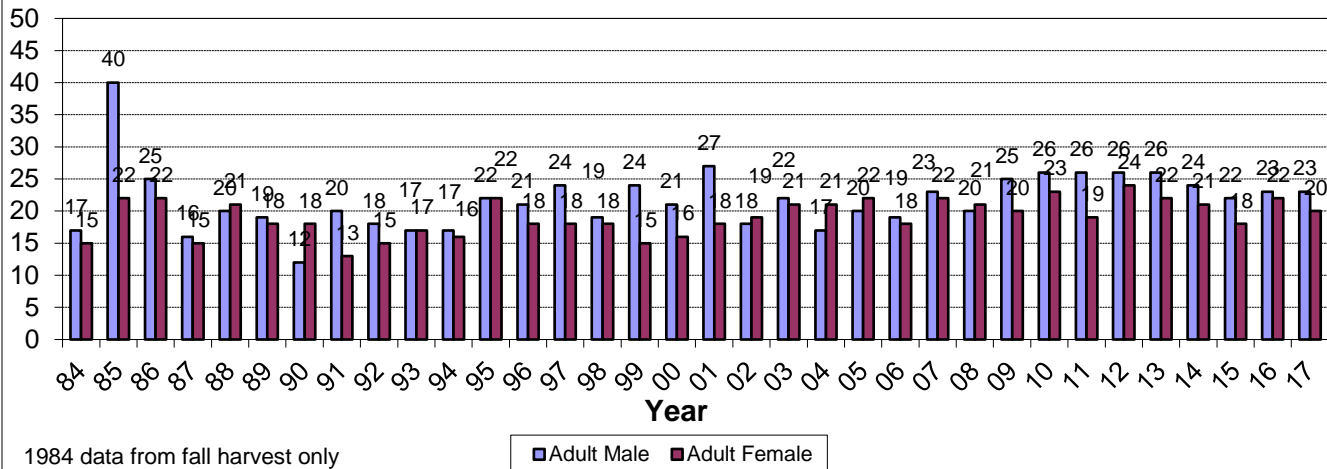
FALL BLACK BEAR HARVEST BY WEEK OF KILL 2017 NEW BRUNSWICK



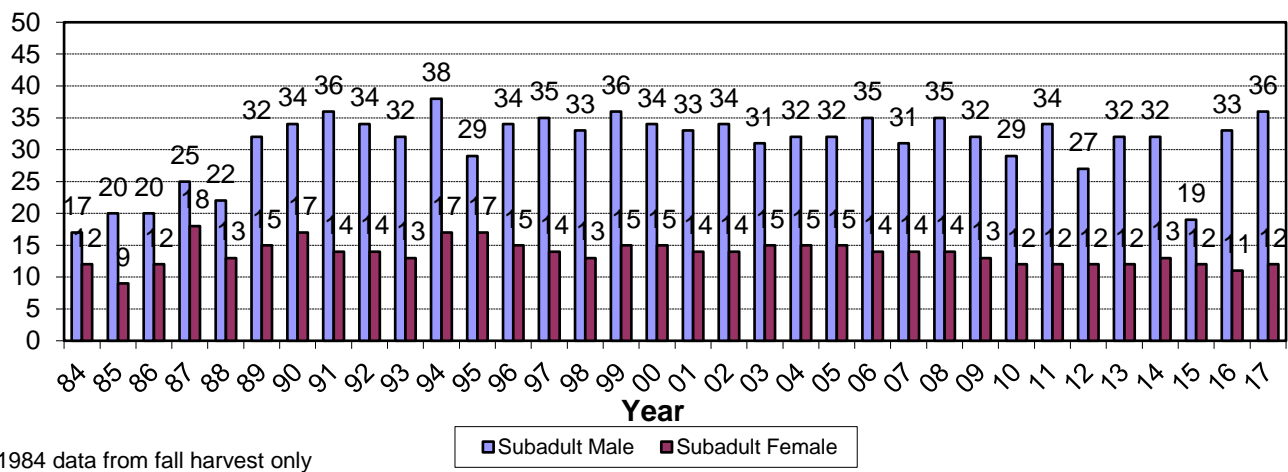
BLACK BEAR SEPTEMBER BOW SEASON HARVEST 1984-2017 NEW BRUNSWICK



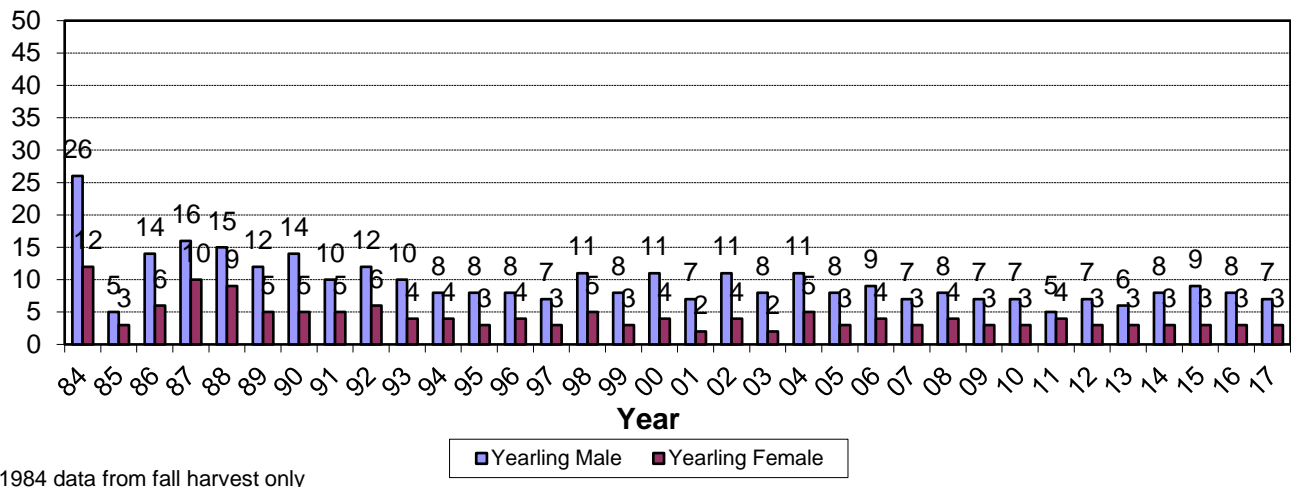
SEX RATIOS OF ADULTS [>3.5 Years] % OF HARVEST 1984-2017 NEW BRUNSWICK



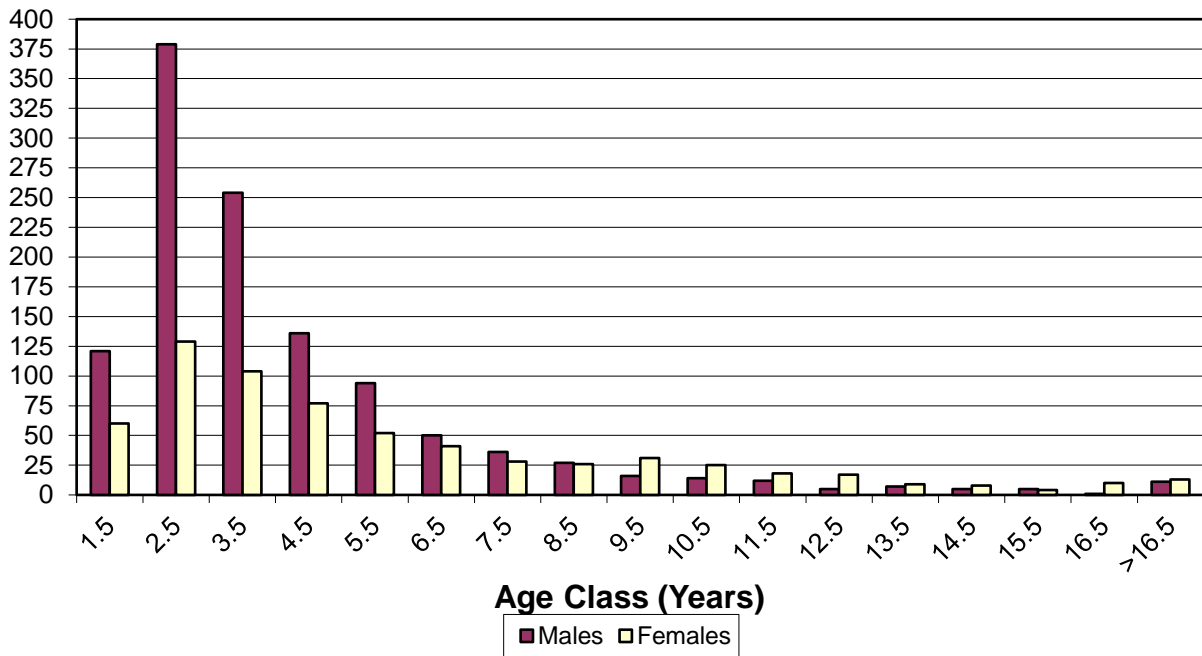
SEX RATIOS OF SUBADULTS [2.5-3.5 Years] % OF HARVEST 1984-2017 NEW BRUNSWICK



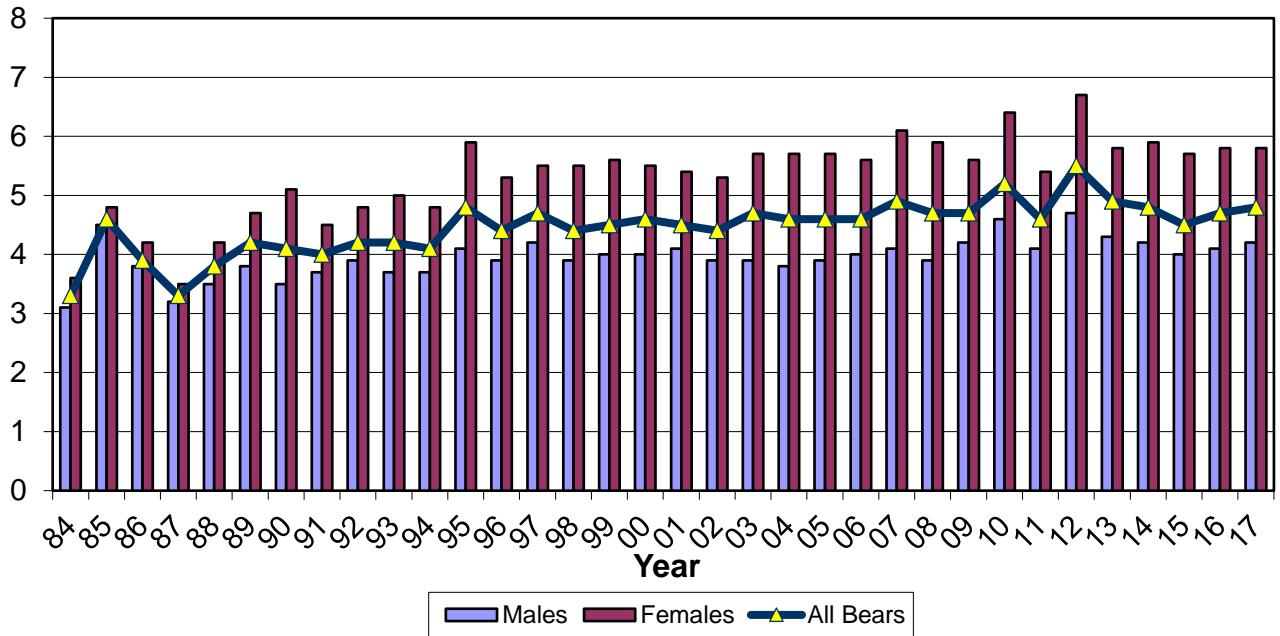
SEX RATIOS OF YEARLINGS [0.5-1.5 Years] % OF HARVEST 1984-2017 NEW BRUNSWICK



BLACK BEAR AGE AND SEX SUMMARY (Spring and Fall Harvest) 2017 NEW BRUNSWICK

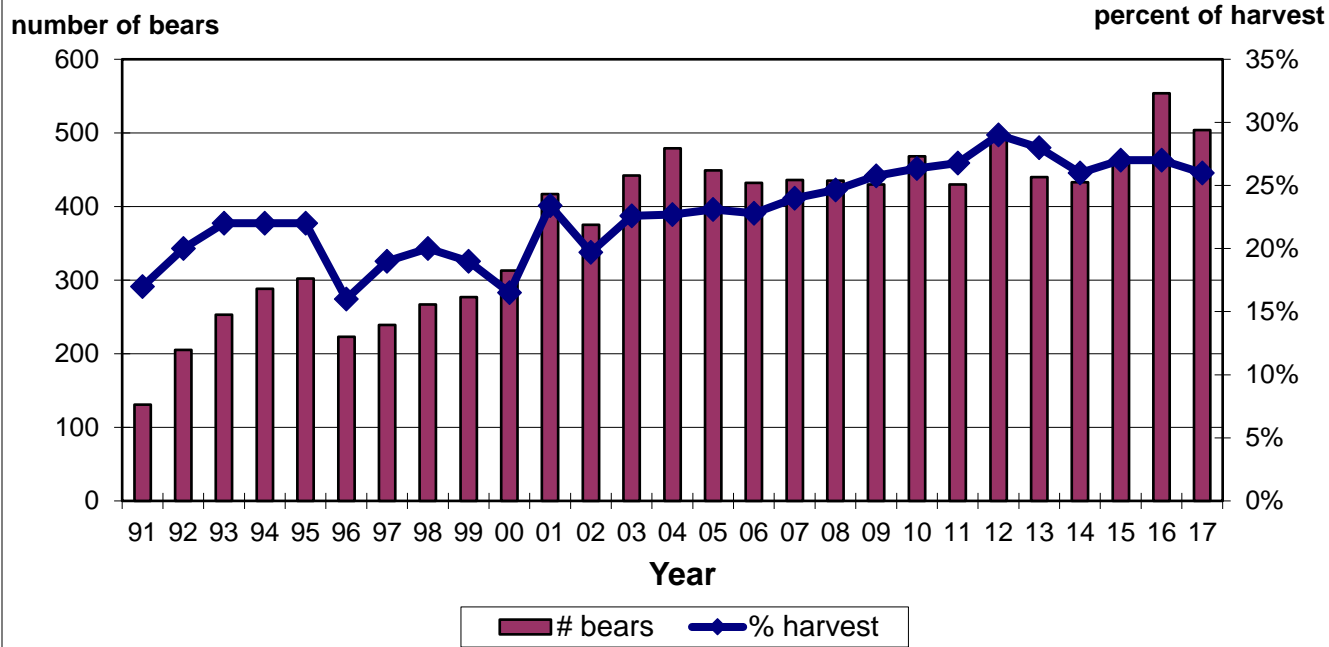


AVERAGE AGE OF BEARS REGISTERED 1984-2017 NEW BRUNSWICK



1984 data from fall harvest

Percent of Bears Harvested With Bow and Number of Bears Harvested With Bow New Brunswick 1991 - 2017



BIG GAME BAG LIMITS, SEASON DATES, LICENCE FEES AND LICENCE REVENUES New Brunswick - 2017

DEER: Bag Limit: 1 deer per year (antlerless deer by permit only)

Archery Season:

WMZ 1-3: 2 October - 5 November
WMZ 6-8; 10-27 2 October - 18 November

Rifle Season:

WMZ 1-3: 23 October - 5 November
WMZ 6-8: 10-27 23 October - 18 November

Licence Fees: \$ 173 Non-resident
\$ 29 Resident
\$ 14 Resident Senior

Licence Revenue: \$ 1,223,416

Application Fee: \$ 4 (Antlerless Deer Draw)
Application Revenue: \$ 35,296

TOTAL REVENUE - DEER \$ 1,258,712

MOOSE: Bag Limit: 1 moose per year (either sex)

Season: 26 - 30 September

Licence Fees: \$ 72 Resident
\$ 37 Resident Senior
\$ 548 Non-resident

Licence Revenue: \$ 522,301

Application Fee: \$ 6.30 Resident
\$ 26.25 Non-resident
Application Revenue: \$ 468,458

TOTAL REVENUE - MOOSE: \$ 990,759

BEAR: Bag Limit: 1 bear per licence (either sex).
Maximum of two licences may be purchased per year.
Bear registration permit required to purchase second licence.

Spring Rifle Season: 17 April - 24 June
Fall Archery Season: 25 - 30 September
Fall Rifle Season: 1 - 23 September; 1 October - 4 November

Licence Fees: \$ 37 Resident
(per season) \$ 18 Resident Senior
\$ 143 Non-resident

Licence Revenue: \$ 476,136

Application Fee: \$ 26.25 Non-resident

Application Revenue: \$ 4,174

TOTAL REVENUE - BEAR: \$ 480,310

GRAND TOTAL (REVENUE) BIG GAME: \$ 2,729,781