



# **BIG GAME HARVEST REPORTS 2016**



# MOOSE HARVEST REPORT – 2016

## 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 2016 was 4,643 licences, which is a slight increase from 2015.

A total of 61,487 NB residents, 3,177 non-residents, and 118 outfitters and guides submitted applications to the moose licence draw in 2016; 4,643 resident, 50 non-resident, and 50 outfitter and guide applicants were successful. A total of 73% of resident moose licence holders chose to designate another resident hunter to accompany them on their licence.

The total registered moose harvest in 2016 was 3,435 moose. Resident hunters harvested 3,357 moose, while non-residents took 78 moose. The overall hunter success rate was 74%.

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 2016, this resulted in a season of September 20-24<sup>th</sup>.

## 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 2017 is 4,635 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 - 2016 NEW BRUNSWICK**

Year	Estimated Population <sup>f</sup>	# Applications	# Drawn	Licences Issued	Registered Kill	% Hunter Success
[Moose season closed 1936 and reopened in 1960]				[Bulls only hunting from 1960 to 1965]		
1960	3500	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	4200	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	6000	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 <sup>a</sup>		39,157	6,000	5,580	1,085	19
1975	8200	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	10000	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	15000	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 <sup>b</sup>		28,895	6,000	5,243	2,022	39
1990	20000	33,894	6,000	5,250	1,657	32
1991	20000	39,314	6,000	5,234	1,753	33
1992	21000	39,212	6,000	5,321	1,899	36
1993	22000	42,332	6,000	5,320	2,061	39
1994 <sup>c</sup>	24100	54,030	5,655	5,010	2,094	42
1995	24100	53,791	5,649	4,989	2,326	47
1996 res. <sup>d</sup>		57,514	4,244	3,848	1,678	44
non-res. <sup>e</sup>		671	100	100	37	37
<b>1996 total</b>	<b>19400</b>	<b>58,185</b>	<b>4,344</b>	<b>3,948</b>	<b>1,715</b>	<b>43</b>
1997 res. <sup>d</sup>		59,428	4,754	4,301	2,075	48
non-res.		680	100	101	46	46
<b>1997 total</b>	<b>19900</b>	<b>60,108</b>	<b>4,854</b>	<b>4,402</b>	<b>2,121</b>	<b>48</b>
1998 res. <sup>d</sup>		55,590	4,804	4,573	2,377	52
non-res.		1,105	100	96	50	52
<b>1998 total</b>	<b>20400</b>	<b>56,695</b>	<b>4,904</b>	<b>4,669</b>	<b>2,427</b>	<b>52</b>
1999 res. <sup>d</sup>		57,271	4,683	4,519	1,974	44
non-res.		1,108	100	98	48	49
<b>1999 total</b>	<b>20800</b>	<b>58,379</b>	<b>4,783</b>	<b>4,617</b>	<b>2,022</b>	<b>44</b>
2000 res. <sup>d</sup>		48,469	4,283	4,174	2,485	60
non-res.		986	100	97	52	54
<b>2000 total</b>	<b>21300</b>	<b>49,455</b>	<b>4,383</b>	<b>4,271</b>	<b>2,537</b>	<b>59</b>

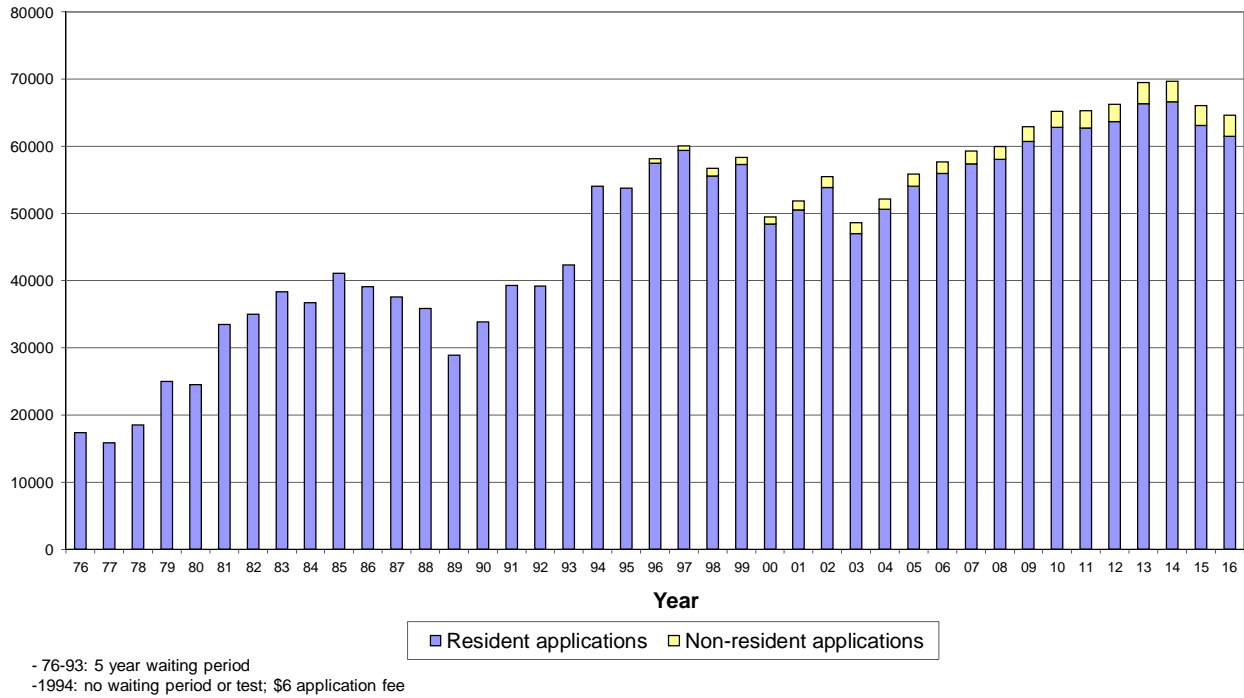
Year	Estimated Population <sup>f</sup>	# Applications	# Drawn	Licences Issued	Registered Kill	% Hunter Success
2001 res. <sup>d</sup>		50,504	4,518	4,415	2,518	57
non-res.		1,322	100	96	55	57
<b>2001 total</b>	<b>21700</b>	<b>51,826</b>	<b>4,618</b>	<b>4,511</b>	<b>2,573</b>	<b>57</b>
2002 res. <sup>d</sup>		53,916	4,293	4,191	2,020	48
non-res.		1,586	100	95	51	54
<b>2002 total</b>	<b>22200</b>	<b>55,502</b>	<b>4,393</b>	<b>4,286</b>	<b>2,071</b>	<b>48</b>
2003 res. <sup>d</sup>		47,029	2,779	2,714	1,518	56
non-res.		1,559	100	94	50	53
<b>2003 total</b>	<b>22000</b>	<b>48,588</b>	<b>2,879</b>	<b>2,808</b>	<b>1,568</b>	<b>56</b>
2004 res. <sup>d</sup>		50,585	2,769	2,694	1,727	64
non-res.		1,539	100	96	67	70
<b>2004 total</b>	<b>23800</b>	<b>52,124</b>	<b>2,869</b>	<b>2,790</b>	<b>1,794</b>	<b>64</b>
2005 res. <sup>d</sup>		54,026	3,266	3,207	2,026	63
non-res.		1,824	100	97	58	60
<b>2005 total</b>	<b>22600</b>	<b>55,850</b>	<b>3,366</b>	<b>3,304</b>	<b>2,084</b>	<b>63</b>
2006 res. <sup>d</sup>		55,972	3,002	2,913	2,290	79
non-res.		1,744	100	98	72	73
<b>2006 total</b>	<b>23800</b>	<b>57,716</b>	<b>3,102</b>	<b>3,011</b>	<b>2,362</b>	<b>78</b>
2007 res. <sup>d</sup>		57,442	3,110	3,061	2,052	67
non-res.		1,875	100	99	68	69
<b>2007 total</b>	<b>25000</b>	<b>59,317</b>	<b>3,210</b>	<b>3,160</b>	<b>2,120</b>	<b>67</b>
2008 res. <sup>d</sup>		58,023	3,340	3,286	2,161	66
non-res.		1,948	100	96	70	73
<b>2008 total</b>	<b>25700</b>	<b>59,971</b>	<b>3,440</b>	<b>3,382</b>	<b>2,231</b>	<b>66</b>
2009 res. <sup>d</sup>		60,716	3,402	3,347	2,341	70
non-res.		2,209	100	98	68	69
<b>2009 total</b>	<b>26200</b>	<b>62,925</b>	<b>3,502</b>	<b>3,445</b>	<b>2,409</b>	<b>70</b>
2010 res. <sup>d</sup>		62,844	3,545	3,483	2,393	69
non-res.		2,319	100	100	81	81
<b>2010 total</b>	<b>25900</b>	<b>65,163</b>	<b>3,645</b>	<b>3,583</b>	<b>2,474</b>	<b>69</b>
2011 res. <sup>d</sup>		62,696	4,364	4,271	2,419	57
non-res.		2,648	100	97	59	61
<b>2011 total</b>	<b>28600</b>	<b>65,344</b>	<b>4,464</b>	<b>4,368</b>	<b>2,478</b>	<b>57</b>
2012 res. <sup>d</sup>		63,649	4,624	4,524	3,466	77
non-res.		2,608	100	100	81	81
<b>2012 total</b>	<b>28600</b>	<b>66,257</b>	<b>4,724</b>	<b>4,624</b>	<b>3,547</b>	<b>77</b>
2013 res. <sup>d</sup>		66,319	4,612	4,531	3,266	72
non-res.		3,140	100	98	80	82
<b>2013 total</b>	<b>29400</b>	<b>69,459</b>	<b>4,712</b>	<b>4,629</b>	<b>3,346</b>	<b>72</b>
2014 res. <sup>d</sup>		66,658	4,612	4,529	3,605	80
non-res.		3,002	50	47	39	83
outfitter non-res		81	50	50	39	78
<b>2014 total</b>	<b>29800</b>	<b>69,741</b>	<b>4,712</b>	<b>4,626</b>	<b>3,683</b>	<b>80</b>
2015 res. <sup>d</sup>		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
<b>2015 total</b>	<b>31800</b>	<b>66,151</b>	<b>4,692</b>	<b>4,598</b>	<b>3,729</b>	<b>81</b>
2016 res. <sup>d</sup>		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
<b>2016 total</b>	<b>31200</b>	<b>64,782</b>	<b>4,743</b>	<b>4,640</b>	<b>3,435</b>	<b>74</b>

a 3 day season begins; b Moose licence fee increased from \$25 to \$50; c Allocation of hunters by Wildlife Management Zone begins;

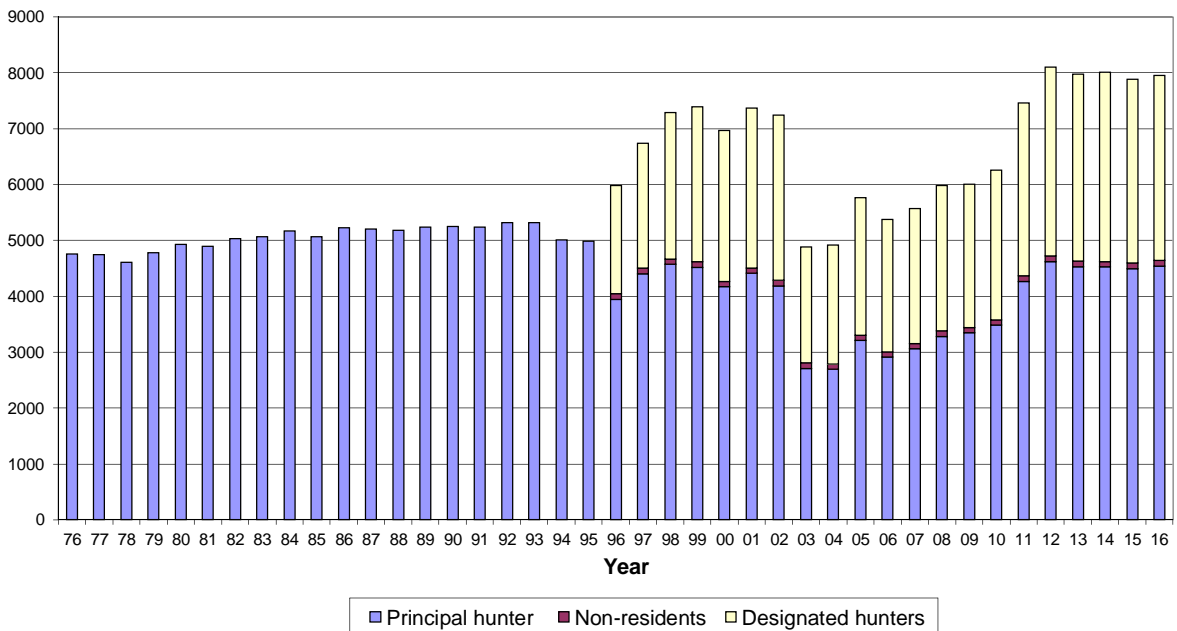
d Resident licences issued are party chiefs. Resident success is for party regardless of number of hunters.; e 100 non-resident hunters included in the moose hunt in 1996 for first time.

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

## MOOSE HUNTING APPLICATIONS 1976 - 2016 New Brunswick



## MOOSE HUNTING LICENCES SOLD 1976 - 2016 New Brunswick



# MOOSE DRAW DATA, LICENCE PURCHASE AND KILL SUCCESS OF RESIDENT MOOSE HUNTING PARTIES New Brunswick 2016

WMZ	Licence Quota 2016	# Applicants	Applicants Drawn	Resident Principal Hunter Licences <sup>1</sup> Purchased	Designated Hunter Licences <sup>2</sup> Purchased	2016 Reg'd Kill <sup>3</sup>	% Successful in Harvesting a Moose	Licence Quota 2017
1	128	1,089	128	127	87	104	82	128
2	415	2,206	415	405	243	314	78	429
3	389	4,084	389	384	253	350	91	379
4	369	3,074	369	354	254	271	77	366
5	222	3,457	222	217	140	182	84	206
6	318	2,035	318	310	181	222	72	321
7	331	7,228	331	323	243	291	90	342
8	245	3,408	245	239	173	180	75	243
9	56	1,262	56	55	37	44	80	58
10	70	1,531	70	70	54	55	79	62
11	252	2,142	252	249	159	175	70	262
12	245	3,095	245	238	174	183	77	248
13	107	1,996	107	105	82	78	74	108
14	117	2,034	117	116	96	70	60	129
15	132	1,850	132	128	103	91	71	109
16	194	2,857	194	191	143	134	70	213
17	147	1,568	147	146	116	101	69	132
18	174	2,343	174	171	158	93	54	173
19	78	1,480	78	78	74	55	71	79
20	159	4,642	159	154	122	100	65	179
21	146	1,371	146	142	110	78	55	139
22	86	717	86	80	70	27	34	79
23	152	3,174	152	150	136	87	58	140
24	47	1,250	47	45	41	29	64	43
25	64	1,595	64	64	59	43	67	68
<b>Province</b>	<b>4,643</b>	<b>61,488</b>	<b>4,643</b>	<b>4,541</b>	<b>3,308</b>	<b>3,357</b>	<b>74</b>	<b>4,635</b>

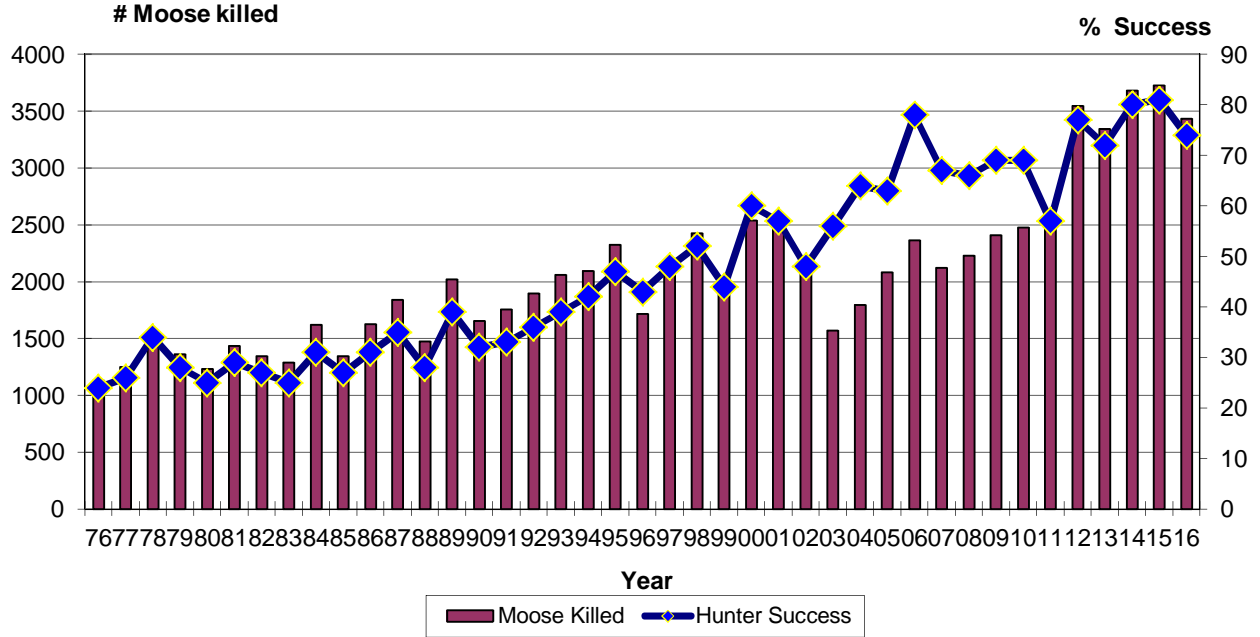
<sup>1</sup> Licences purchased are those of the resident principal hunters who were successful in the draw.

<sup>2</sup> Designated hunter licences allow principal hunters to be accompanied by one other resident hunter who can assist in filling their tag.  
73% of residents who were successful in the draw and purchased a moose hunting licence chose to hunt with a designated hunter.

<sup>3</sup> Resident kill only.

# MOOSE HARVESTED & HUNTER SUCCESS RATES (%)

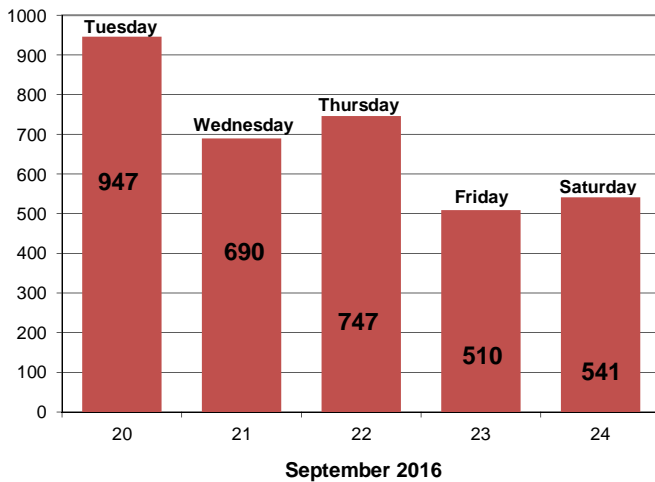
1976-2016 New Brunswick



-1994: Implementation of quotas by zone

## MOOSE KILL BY DAY

2016 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

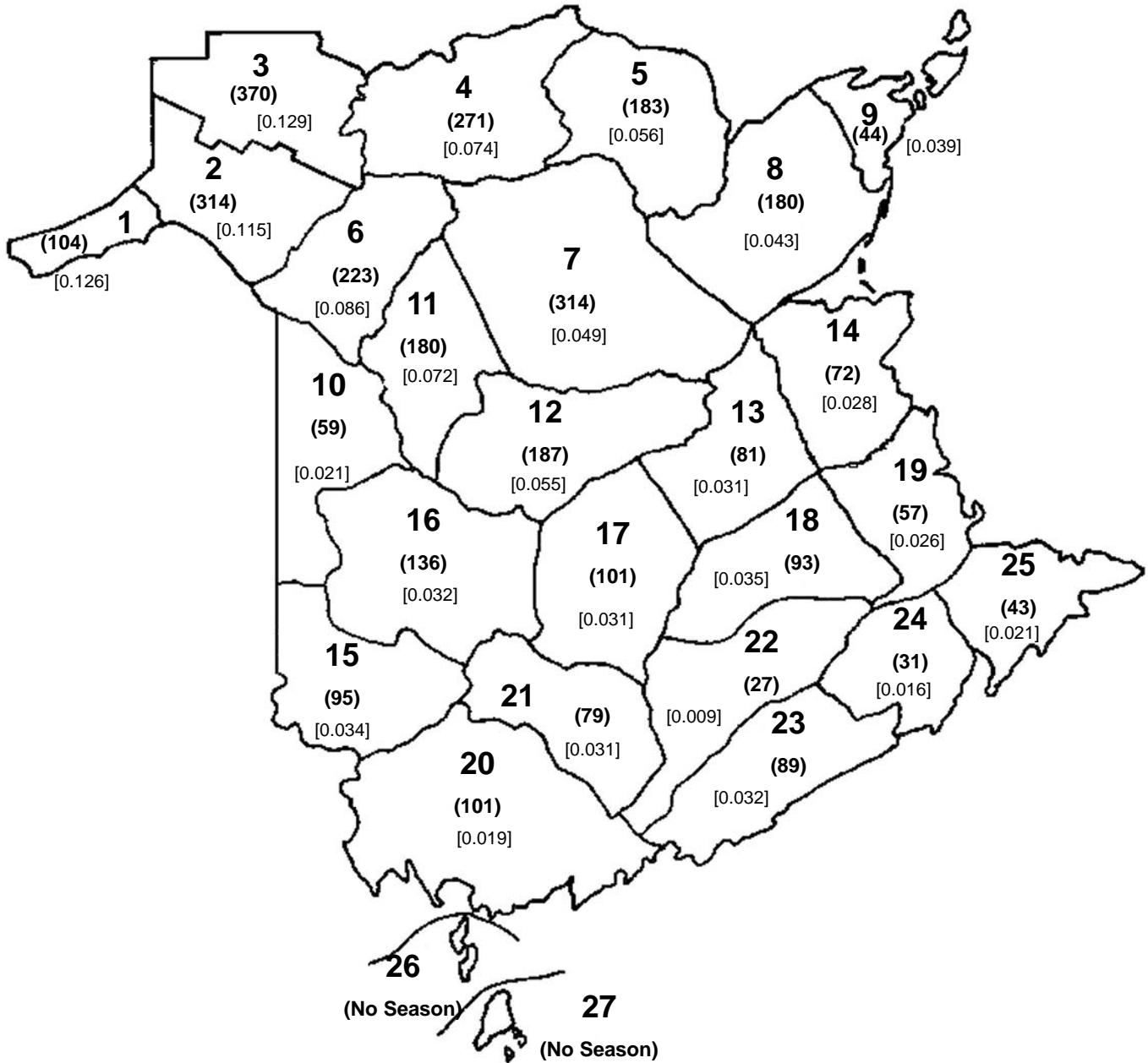
\* Weights were obtained from 1017 moose registered at Fredericton and Edmundston, 1986 - 1989 & at Fredericton 1995 - 2000.

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

# REGISTERED MOOSE HARVEST BY WILDLIFE MANAGEMENT ZONE

## NEW BRUNSWICK 2016

TOTAL HARVEST (#) and HARVEST PER KM<sup>2</sup> [ ]



A total of 3,435 moose registered in 2016.  
Harvest per km<sup>2</sup> for all open zones = 0.046

# SEX AND AGE OF MOOSE HARVESTED

1960 - 2016 New Brunswick

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

Year	Adult & Yearling		Calf		Unknown	Total
	Bull	Cow	Male	Female		
1960 <sup>a</sup>	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 <sup>b</sup>	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 <sup>c</sup>	1,298	629	72	83	12	2,094
1995	1,387	755	78	84	22	2,326
1996 <sup>d</sup>	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

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  
2016 New Brunswick**

WMZ	MALE				FEMALE				Sex Unknown	Total
	Adult	Yearling	Calf	Age Unknown	Adult	Yearling	Calf	Age Unknown		
1	42	13	2	1	31	7	3	3	2	104
2	120	41	3	13	82	31	5	10	9	314
3	222	26	1	4	84	27	1	4	1	370
4	149	40	2	3	50	22	5	0	0	271
5	97	26	0	4	40	12	3	1	0	183
6	118	28	1	6	45	18	4	3	0	223
7	219	35	1	7	39	10	1	2	0	314
8	100	27	0	0	32	18	1	2	0	180
9	20	7	0	0	9	8	0	0	0	44
10	33	8	1	0	11	5	1	0	0	59
11	102	22	3	0	35	14	4	0	0	180
12	120	23	0	0	25	14	3	2	0	187
13	55	8	0	1	12	3	2	0	0	81
14	52	7	2	0	8	3	0	0	0	72
15	45	11	2	0	25	9	3	0	0	95
16	79	16	2	1	28	8	2	0	0	136
17	54	18	0	2	19	6	1	1	0	101
18	55	13	0	1	17	6	0	0	1	93
19	31	7	0	3	9	7	0	0	0	57
20	55	11	2	2	17	12	2	0	0	101
21	39	11	1	0	17	8	2	0	1	79
22	15	2	0	0	6	3	1	0	0	27
23	35	17	3	3	17	12	2	0	0	89
24	14	6	0	0	6	5	0	0	0	31
25	26	6	1	0	4	4	2	0	0	43
unknown	1	0	0	0	0	0	0	0	0	1
Province	1898	429	27	51	668	272	48	28	14	3435

# MOOSE SIGHTINGS PER HOUR HUNTED FOR WILDLIFE MANAGEMENT ZONES 1990 - 2016 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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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
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
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	

Note: Report forms from both successful and unsuccessful principal hunters were used to determine the number of moose sightings per hour of hunting, see 2014 Moose Hunter Survey.

## DEER HARVEST REPORT - 2016

### Summary

The 2016 deer hunting season had a harvest of 5,386 deer, a 23% increase over 2015. The Antlerless Deer Permits had been reduced by 20% to 1,800 permits for 2016. The winter of 2015 was one of the worst winters the past 25 years, so the antlerless deer permits had been reduced to help grow the deer herd. The winter of 2016 was milder than average and allowed for good fawn winter survival, thus resulting in a healthy pulse of yearlings into the 2016 deer season. This was evident in the fact that 44% of the overall harvest was comprised of yearling bucks.

Resident hunters had a harvest success rate of 11%, while non-residents had slightly better harvest success rates of 17%. Hunters with Antlerless Deer Permits had better success rates of 37% 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 20 to 25% in the remaining 3 weeks. There were 500 deer (10% of the harvest) taken on the three Sundays that were open for hunting during the season. A total of 89% of the harvest were bucks, 9% adult females, and 2% fawns.

In 2016 there were 1,800 Antlerless Deer Permits made available; 450 fewer than in 2015. A total of 7,743 resident hunters applied for the computerized tag draw, of which 1,805 were successful. Hunters with antlerless deer tags harvested 672 deer in the 2016 season. Of the successful antlerless permit holders, 61% harvested antlerless deer and 30% harvested adult bucks.

A total of 46,381 residents and 333 non-residents purchased licences to hunt white-tailed deer. Total licence sales were 46,714, which was 2,125 fewer than 2015 sales; 8% below the long-term average. New Brunswick residents harvested 99% of the total deer kill, while non-residents harvested 1%.

### 2017 Synopsis

The NB deer herd had a healthy growth spurt in 2016, due to the good winter survival. The bump in the number of yearlings in 2016 will shift into a bump of 2 year olds in 2017, and hopefully hunters will see more larger racked bucks this season. The winter of 2017 was about equal to the 10 year average, with about 15% mortality. This was a harsher winter than 2016 (11%) and the additional mortality may curb some population growth. Current analysis generally predicts a prehunt population similar to that of last year.

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 - 2016

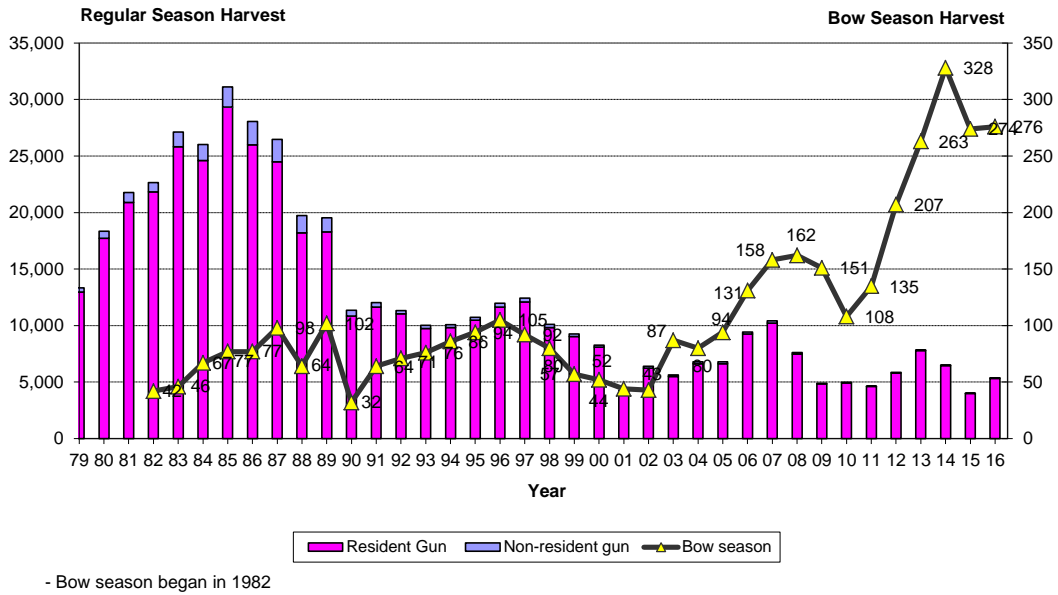
YEAR	LICENCES SOLD				HARVESTS							Estimated Prehunt Population *
	RESIDENT	NON-RES.	TOTAL	TOTAL	RESIDENT	NON-RES.	TOTAL	TOTAL	UNK	TOTAL	Hunter Success Rate	
	GUN	GUN	BOW		GUN SEASON	GUN SEASON	BOW	CROSSBOW				
1968	51,615	2,553	-	54,168	20,516	2,126	-		-	22,642	42%	na
1969	54,346	2,930	-	57,276	15,192	1,745	-		-	16,937	30%	na
1970 <sup>a</sup>	56,350	2,495	-	58,845	5,749	568	-		-	6,335	11%	70,150
1971	59,060	2,171	-	61,231	n/a	n/a	-		-	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 <sup>b</sup>	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%	51,525
2002	50,729	1,050	n/a	51,779	6,225	175	43			6,443	12%	75,309
2003	49,634	1,030	n/a	50,664	5,499	147	87			5,733	11%	68,828
2004	50,090	1,043	n/a	51,133	6,633	165	80			6,878	13%	80,046
2005	48,804	989	n/a	49,793	6,635	152	94			6,881	14%	80,849
2006	51,652	947	n/a	52,599	9,251	187	131		1	9,570	18%	106,211
2007	52,735	988	n/a	53,723	10,233	179	158			10,570	20%	115,596
2008	52,152	829	n/a	52,981	7,480	138	162			7,780	15%	88,030
2009	49,629	626	n/a	50,255	4,836	73	151			5,060	10%	62,361
2010	47,449	529	n/a	47,978	4,938	55	108			5,101	11%	64,036
2011	46,038	395	n/a	46,433	4,600	47	135	11		4,793	10%	61,726
2012	47,110	424	n/a	47,534	5,802	57	207	27		6,093	13%	74,245
2013	49,240	374	n/a	49,614	7,781	71	263	29	17	8,161	16%	93,795
2014	49,102	374	n/a	49,476	6,447	69	328	64	28	6,935	14%	81,574
2015	48,521	318	n/a	48,839	3,990	37	274	61	16	4,378	9%	56,285
2016	46,381	333	n/a	46,714	4,936	56	283	109	2	5,386	12%	67,796

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

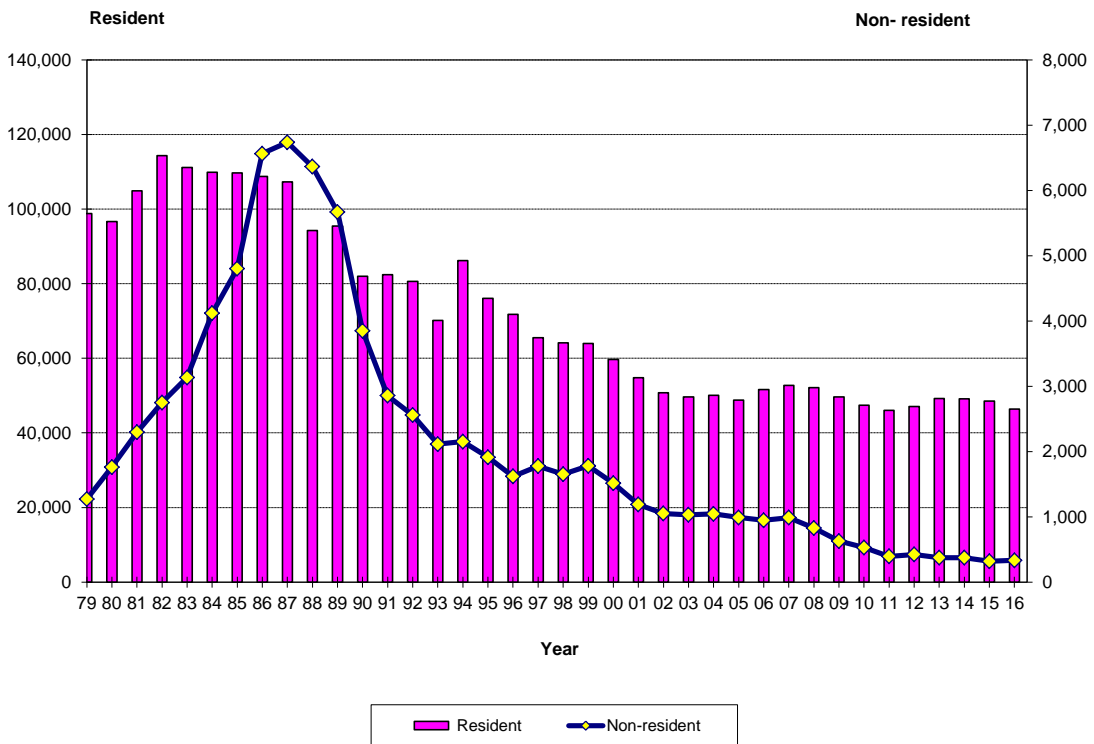
b WMZs / Antlerless Deer Permit System begins.

\* 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) 1979-2016 New Brunswick



## DEER LICENCES ISSUED 1979-2016 New Brunswick



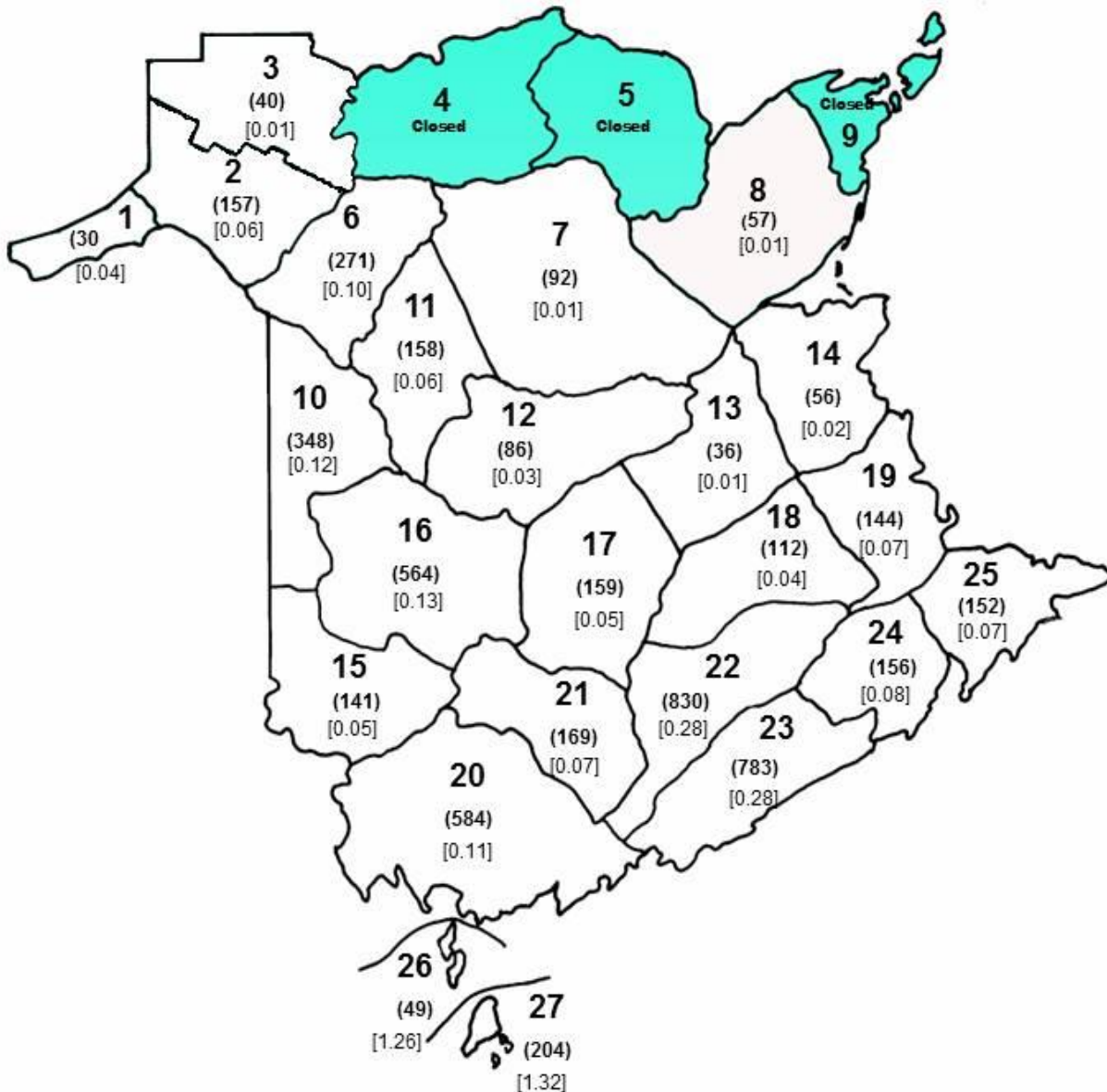
# REGISTERED DEER KILL BY WILDLIFE MANAGEMENT ZONE 2016 NEW BRUNSWICK

WMZ	ADULT MALES	ADULT FEMALES	FAWN MALES	FAWN FEMALES	TOTAL HARVEST
1	30				30
2	156		1		157
3	38	1	1		40
4		<b>Closed Season</b>			0
5		<b>Closed Season</b>			0
6	266	3	1	1	271
7	92				92
8	56	1			57
9		<b>Closed Season</b>			0
10	346		2		348
11	158				158
12	82		2	2	86
13	36				36
14	55		1		56
15	140		1		141
16	511	36	5	12	564
17	156		3		159
18	111		1		112
19	140	3	1		144
20	553	29		2	584
21	166	1	2		169
22	662	138	18	12	830
23	567	183	20	13	783
24	155		1		156
25	151		1		152
26	27	18	1	3	49
27	115	81	4	4	204
UNKNOWN					8
<b>TOTAL</b>	<b>4,769</b>	<b>494</b>	<b>66</b>	<b>49</b>	<b>5,386</b>

# REGISTERED DEER HARVEST BY WILDLIFE MANAGEMENT ZONE

## NEW BRUNSWICK 2016

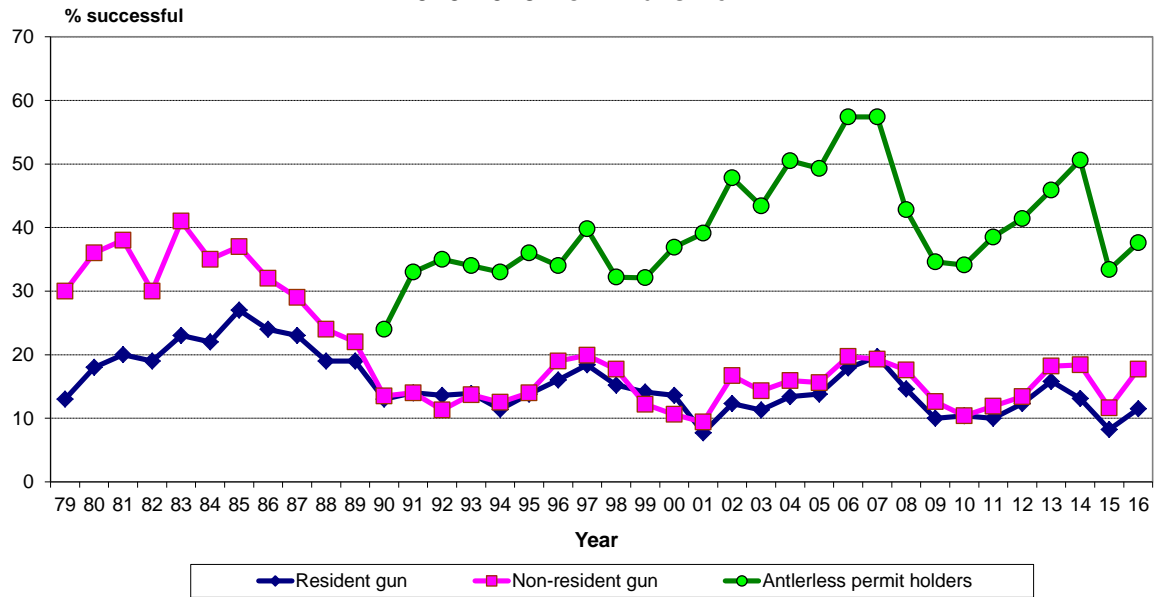
TOTAL HARVEST (#) and HARVEST PER KM<sup>2</sup>[ ]



A total of 5,386 deer registered.  
Provincial kill per km<sup>2</sup> = 0.09 (in open zones)

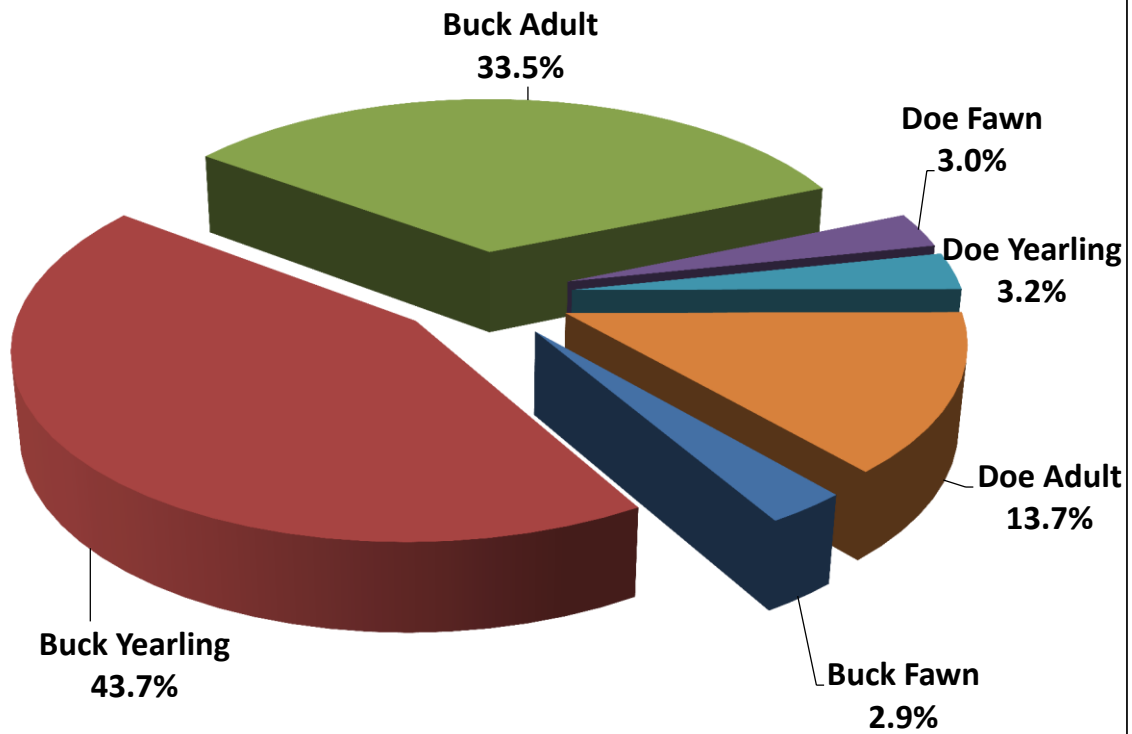
## DEER HUNTER SUCCESS RATES

1979-2016 New Brunswick



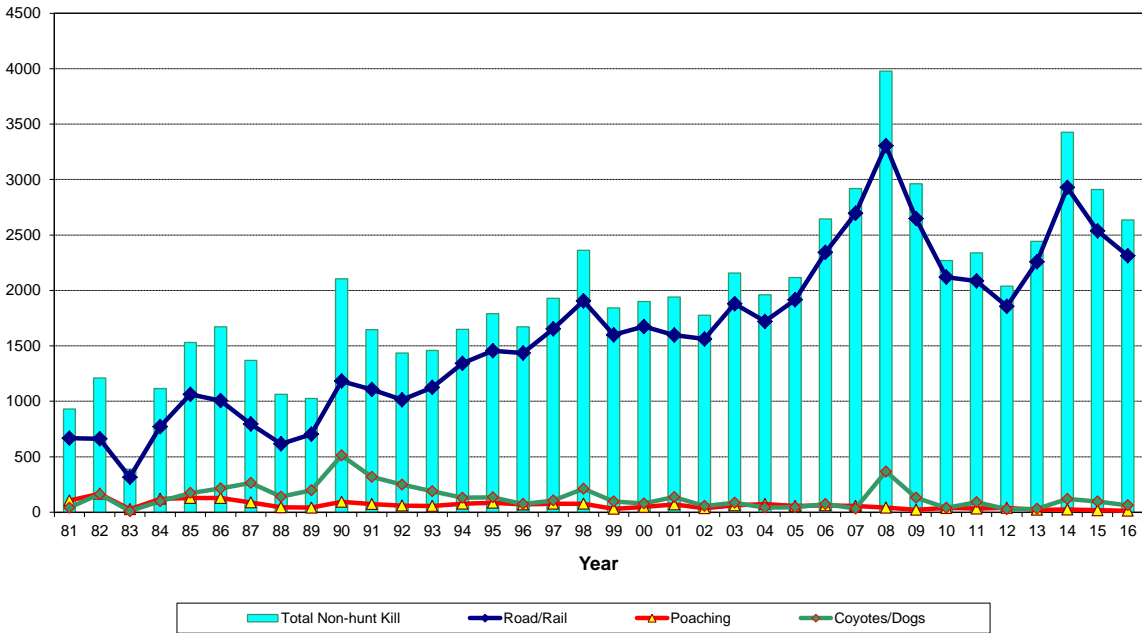
Antlerless permit system began in 1990

## Age and Sex Structure of 2016 Deer Harvest



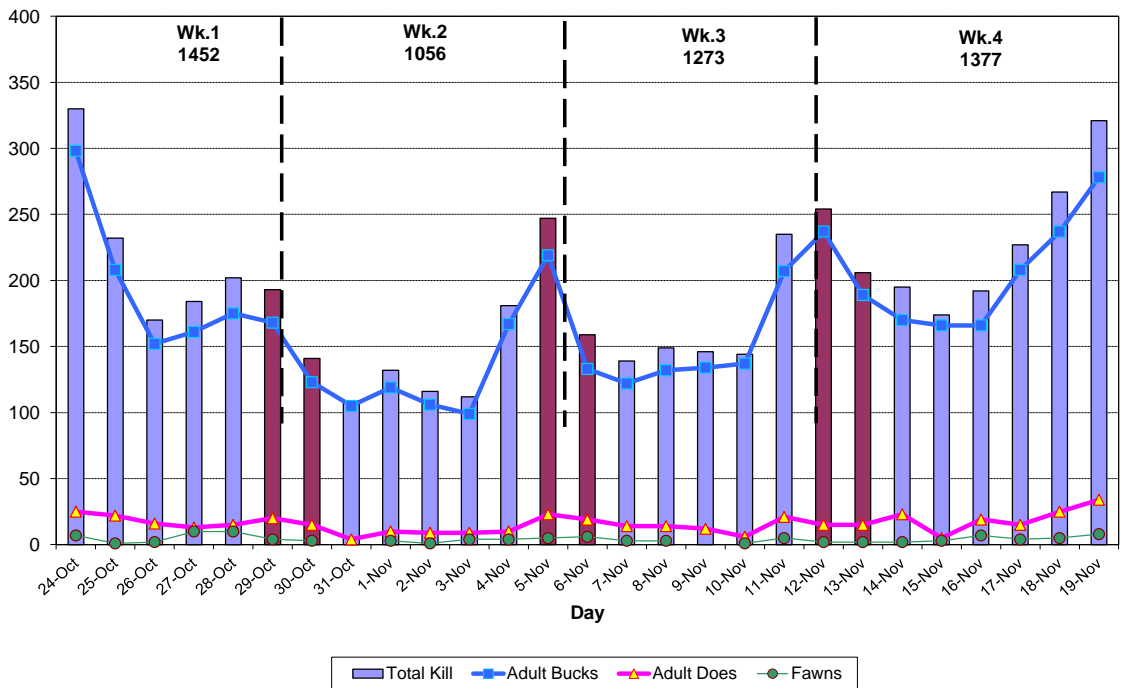


## REPORTED NON-HUNTING DEER MORTALITY 1981-2016 New Brunswick



- reported and handled by DNR staff

## DAILY DEER KILL - FIREARMS SEASON 2016 New Brunswick



- total of 5,158 deer registered in firearm season  
 - Saturday & Sunday (dark columns)

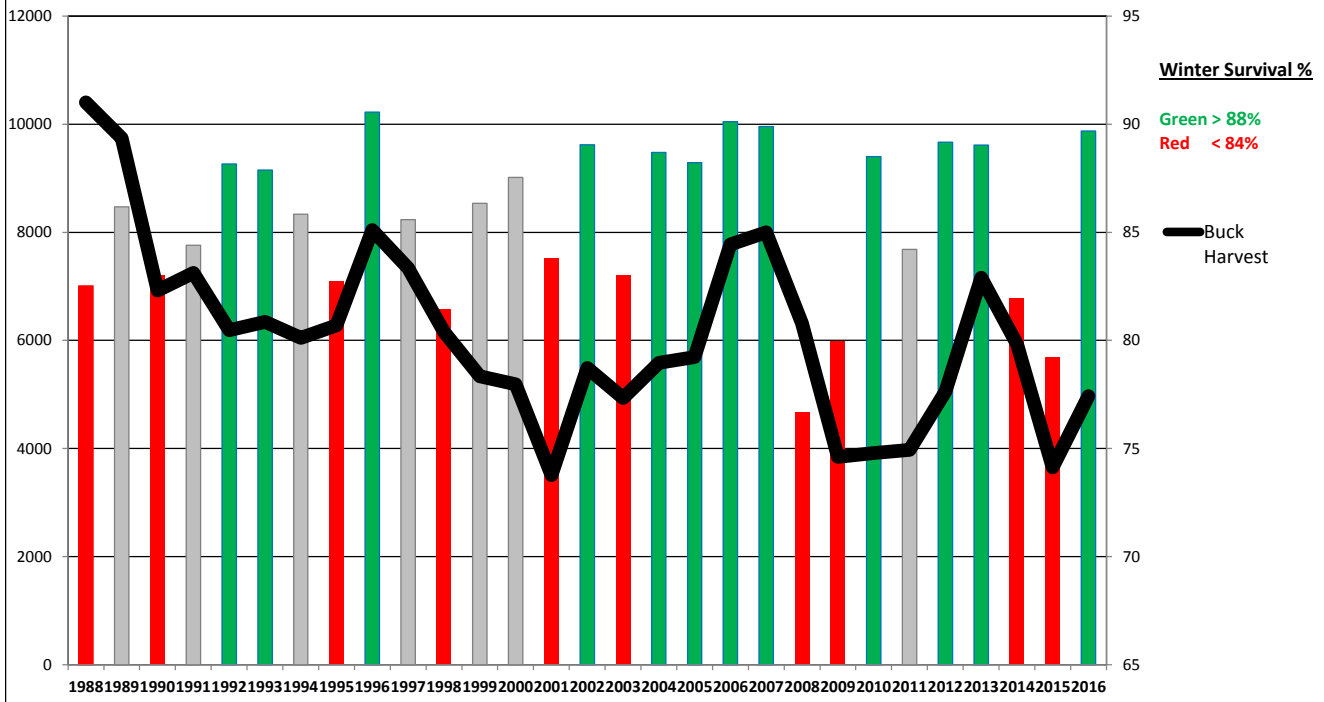
**ANTLERLESS DEER TAG DRAW  
2016 SUMMARY  
New Brunswick**

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	0	0	0	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	0	0	0	n/a
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	50	1,176	55	4.7%
17	0	0	0	n/a
18	0	0	0	n/a
19	0	0	0	n/a
20	100	703	105	14.9%
21	0	0	0	n/a
22	600	3,177	604	19.0%
23	600	1,923	605	31.5%
24	0	0	0	n/a
25	0	0	0	n/a
26	50	67	51	76.1%
27	400	388	388	100.0%
<b>TOTALS</b>	<b>1,800</b>	<b>7,434</b>	<b>1,808</b>	<b>24.3%</b>

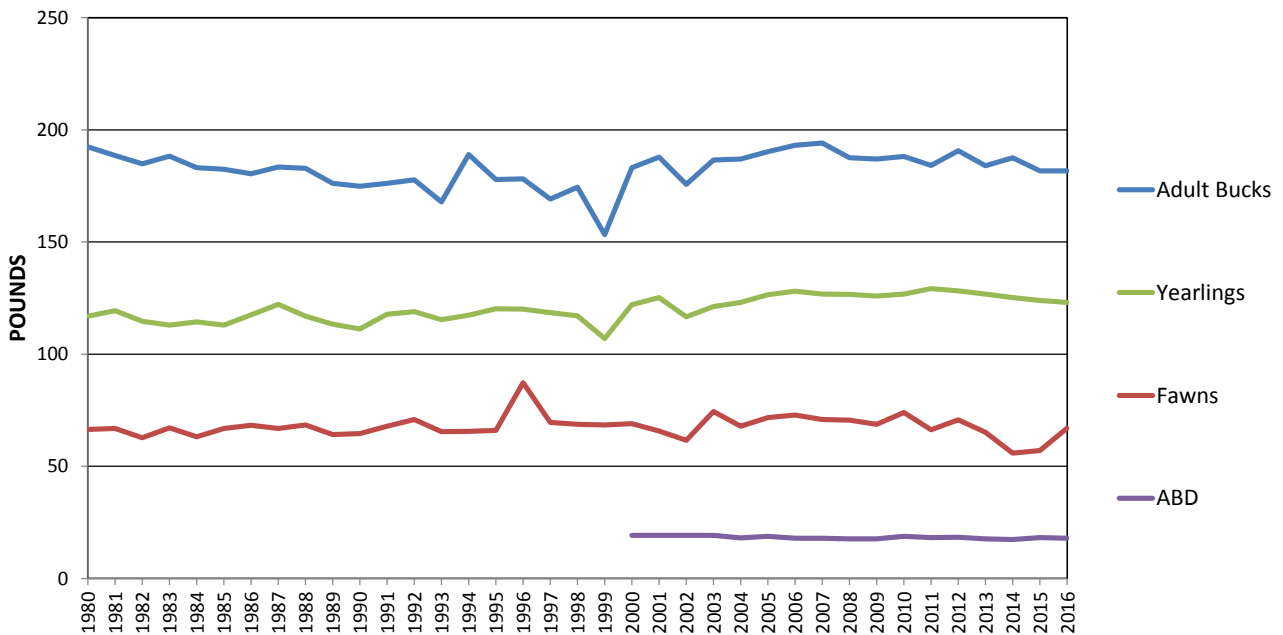
**ANTLERLESS DEER TAG DRAW  
2000 - 2016 SUMMARY  
New Brunswick**

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

# Buck Harvest vs. Deer Winter Survival



# MALE DEER WEIGHTS lbs



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

# BLACK BEAR HARVEST STATISTICS

## 1971 - 2016 New Brunswick

Year	Estimated Population <sup>1</sup>	LICENCES SOLD			Non-Resident Licences Used <sup>a</sup>	BLACK BEAR HARVEST			
		Resident	Non-Resident	Total		Resident	Non-Resident	Unknown/Other <sup>b</sup>	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 <sup>c</sup>		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		4,801	2,265	7,066	2,222	689	1,397	115	2,201

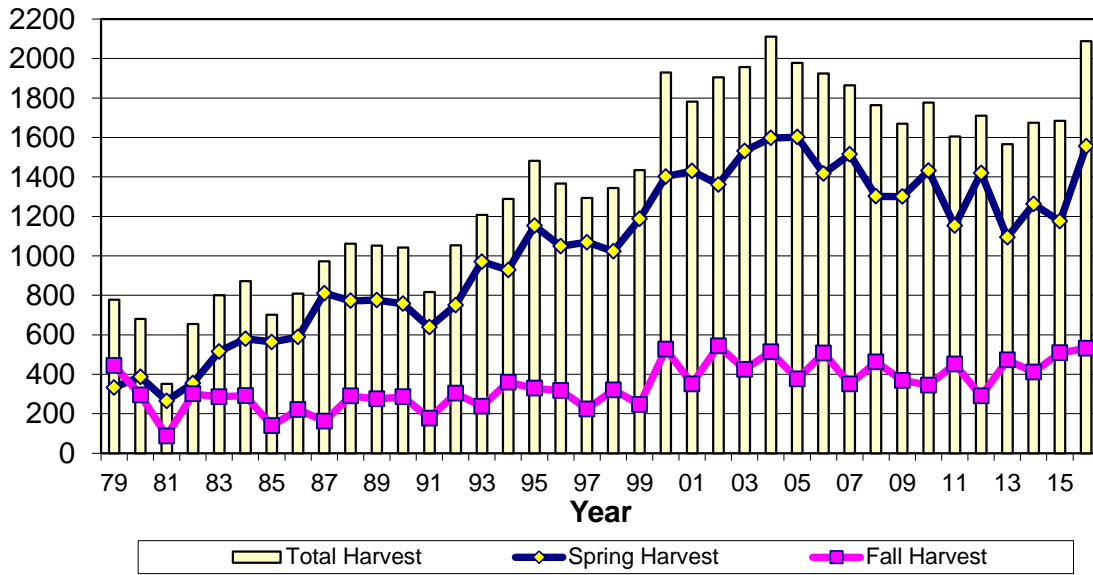
<sup>1</sup> - This column represents estimated pre-hunt adult bear population - calculated every 3 years.

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, as nuisances or poached.

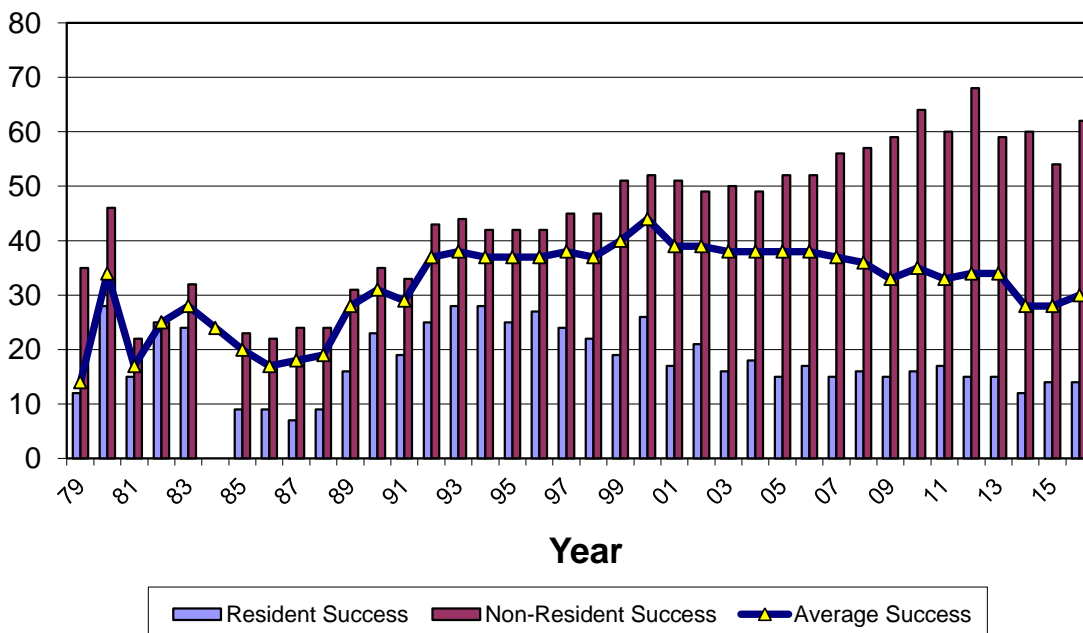
c - Mandatory registration began in fall of 1984.

## SPRING AND FALL BLACK BEAR REGISTRATIONS 1979 - 2016 New Brunswick



79-84 kill estimated from hunter survey

## BEAR HUNTER SUCCESS (%) 1979 - 2016 New Brunswick (Residents and Non-Residents)

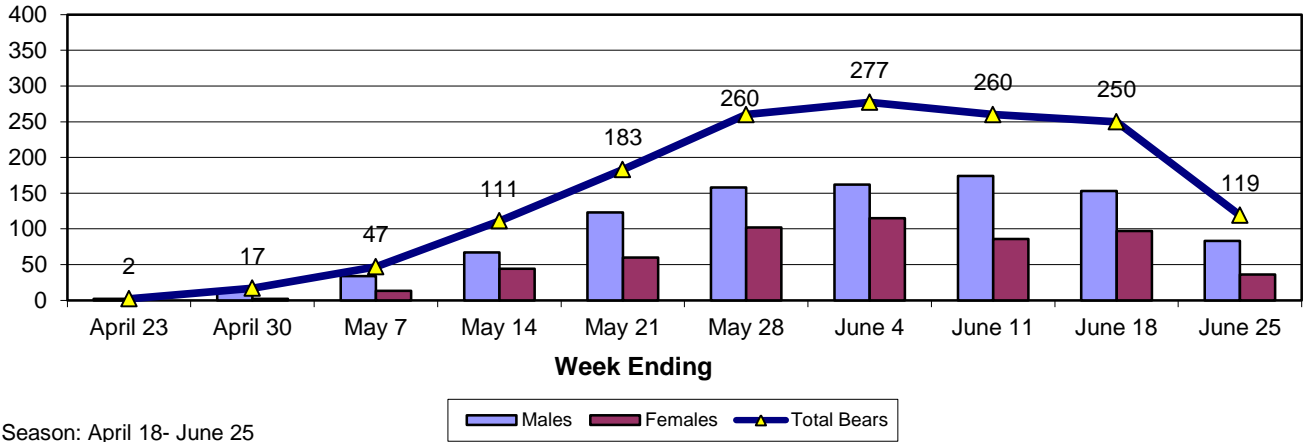


79-84 kill estimated from hunter survey  
unknown res./non-res. kill for 1984

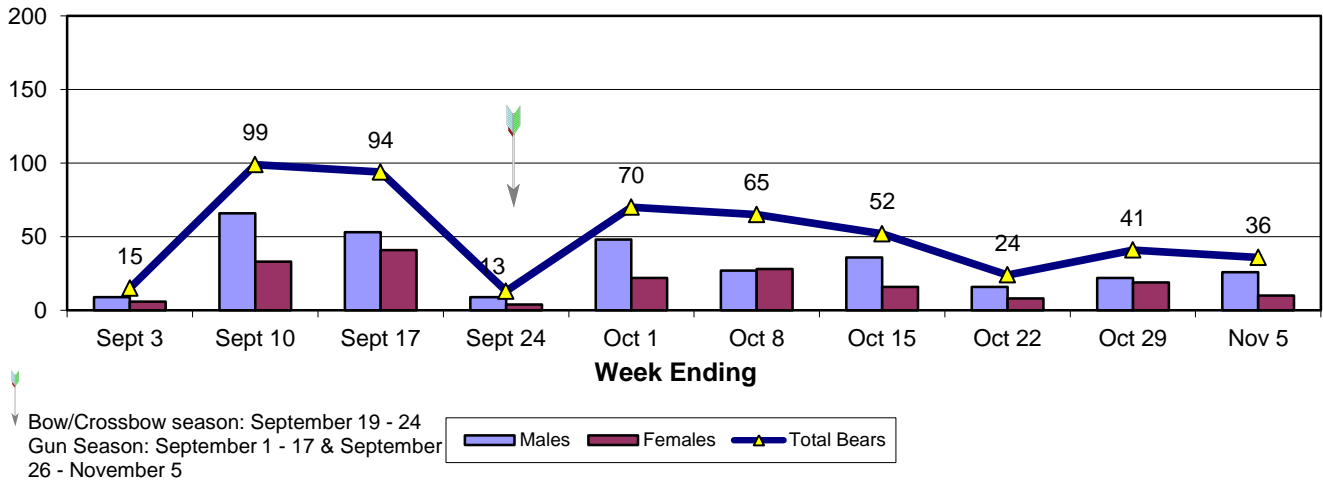
# Registered Black Bear Kill By Wildlife Management Zone Hunting Mortality 2016 New Brunswick

WMZ	Area (km <sup>2</sup> )	#Males	#Females	Unknown Sex	Kill per km <sup>2</sup>	Total Harvest
1	813	16	9		0.031	25
2	2,666	20	12		0.012	32
3	2,865	17	9		0.009	26
4	3,613	22	11	1	0.009	34
5	3,206	75	42	1	0.037	118
6	2,580	54	23		0.030	77
7	6,265	99	75	1	0.028	175
8	4,116	48	14	1	0.015	63
9	1,109	7	0		0.006	7
10	2,800	83	57		0.050	140
11	2,536	53	15		0.027	68
12	3,421	70	54		0.036	124
13	2,639	58	32		0.034	90
14	2,357	36	18		0.023	54
15	2,681	85	70	1	0.058	156
16	4,274	92	36		0.030	128
17	3,056	68	50		0.039	118
18	2,341	39	20	1	0.026	60
19	2,212	26	27		0.024	53
20	5,255	138	72		0.040	210
21	2,561	71	22		0.036	93
22	2,934	53	25	1	0.027	79
23	2,538	34	19		0.021	53
24	2,002	27	29		0.028	56
25	2,062	35	10		0.022	45
26	39	NO OPEN SEASON				
27	155					
Unknown	--	2	2	0	--	4
Province	72,902	1,328	753	7	0.029	2,088

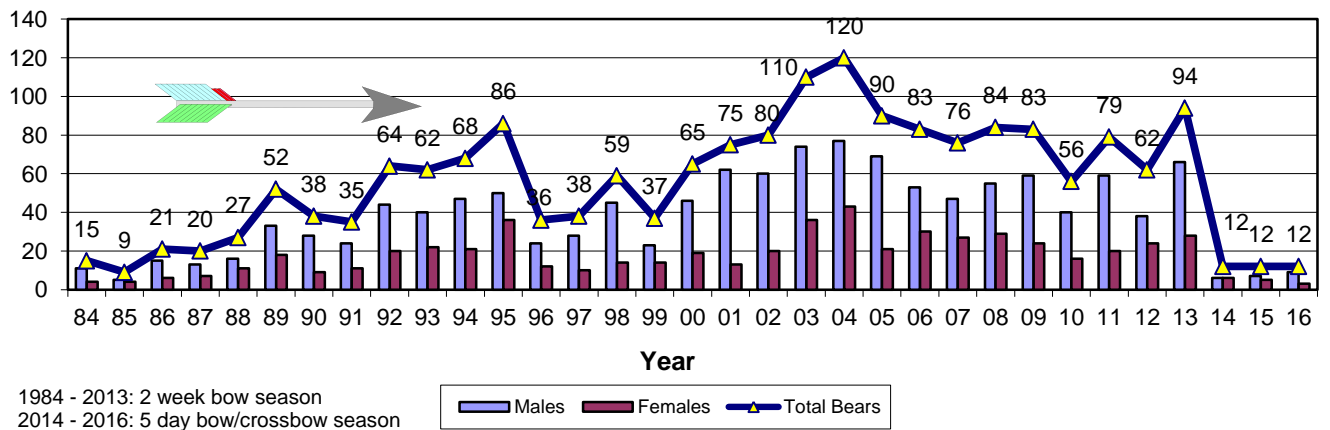
### SPRING BLACK BEAR HARVEST BY WEEK OF KILL 2016 NEW BRUNSWICK



### FALL BLACK BEAR HARVEST BY WEEK OF KILL 2016 NEW BRUNSWICK



### BLACK BEAR SEPTEMBER BOW SEASON HARVEST 1984-2016 NEW BRUNSWICK



### Percent of Bears Harvested With Bow and Number of Bears Harvested With Bow New Brunswick 1991 - 2016

