



BLACK ROCK FOREST

1993

DEER HARVEST REPORT

JOHN F. BRADY
FOREST MANAGER

BLACK ROCK FOREST

The 1993 buck take of 23 was well below the 24 years average of 33. (High in 1986 of 56 and low in 1982 of 7).

The total harvest (bucks and does) of 34 was the second lowest take since the inception of DMU #54 in 1976.

The reasons for this rapid decline are many, some known and unknown. Indicators from 1992 were sometimes contradictory. Yearling antler beam diameter was a healthy 16.7 mm in 1992 and with over 40% of the does in the 2 1/2 to 5 1/2 age classes, the potential for a population increase was evident. Other biological indicators were not as favorable. Fawn weights were down in the 1992 harvest (42 lbs.). Fawn weights over 50 lbs. have produced increased yearling take and weights the following year at Black Rock Forest. The low fawn weights are partially responsible to late birthing dates and a complete absence of a mast crop in the fall of 1992 at Black Rock Forest. Acorns have proven to be essential to deer diets, as they put on more fat for the winter. Most fawns were entering the winter of 1993 in poor physical condition. Previous winters have been mild, with below normal snowfall. 1989-1992 snowfalls averaged 18". The winter of 1993 dumped 58" of snow finishing off with a blizzard in March. Starvation was prevalent, mostly in the fawn age class, followed by the older does. It was estimated that 40-50% of the fawn class was lost to winter mortality in 1993. (These fawns were to be yearlings during the 1993 hunt.)

A further indicator of the population is the deer tracking index. In 1991 and 1992 when deer harvests were high, 75 and 66 respectfully deer groups averaged four (4) individuals during the winter. The winter of 1993 deer group size plummeted to 2.6 deer per group.

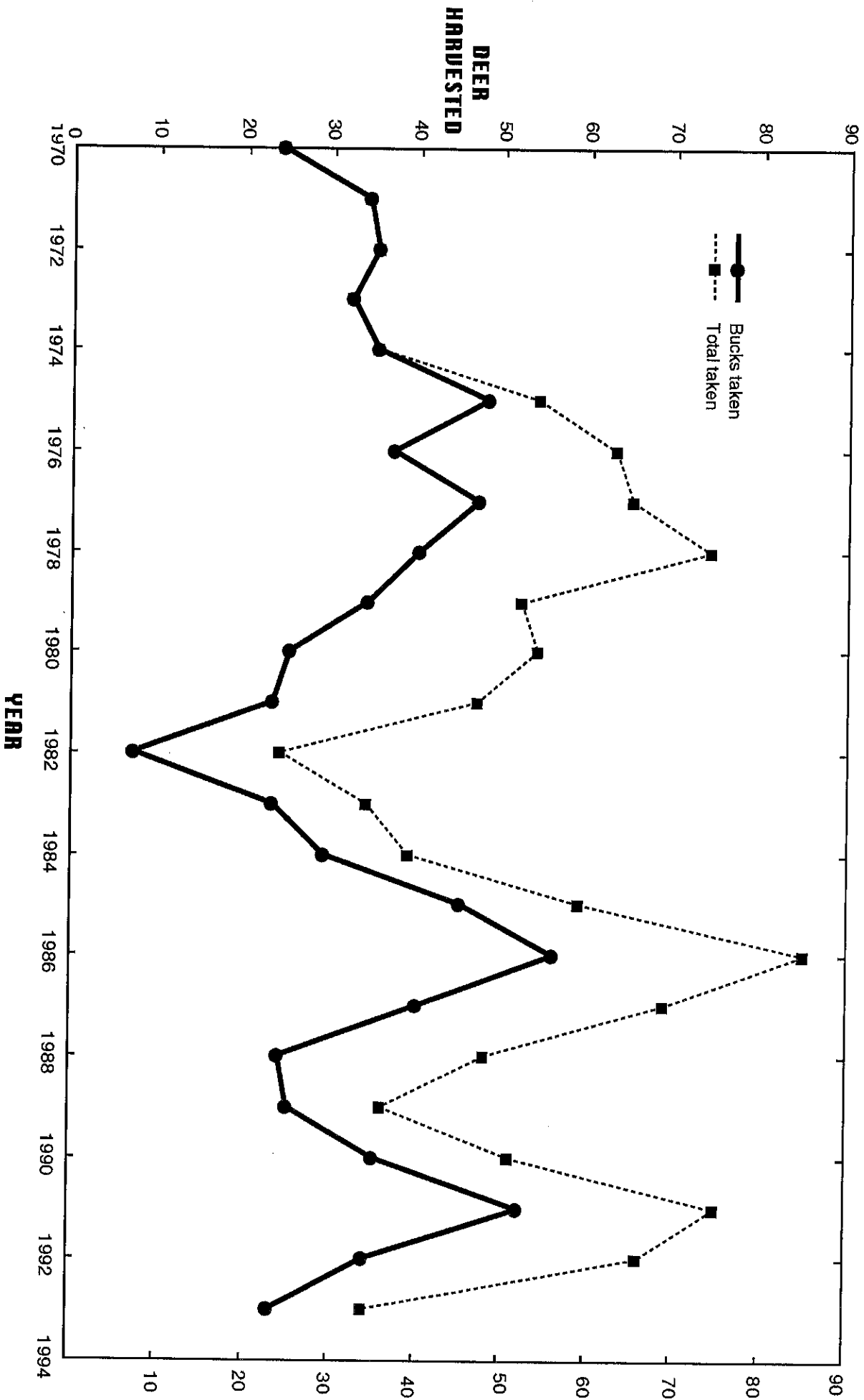
Coyotes also had an impact as snow depths and the deer's physical condition were in the coyotes' favor. Old man coyote is a sly and opportunistic rascal and his effect on the deer herd is variable and hard to measure.

FORECAST: We will still feel the effects of the blizzard of 1993 in the hunt of 1994. The forest had a healthy acorn crop in 1993. Fawns weights were rising in 1993 (47 lbs.).

So far the tracking index shows a slight increase of deer groups this winter. As of mid-January 1994 deer groups are averaging 3.3 deer per group up from the 2.6 in 1993. Hopefully the winter of 1994 is not too severe. There should be a good portion of 2 1/2 year old bucks overwintering that will be 3 1/2 year old during the 1994 hunting season.

JOHN F. BRADY
FOREST MANAGER

BLACK ROCK FOREST BUCK AND TOTAL DEER HARVESTED



**1993 DEER HUNTING SEASON
NOVEMBER 22 TO DECEMBER 14**

<u>ZONE</u>	<u>ACRES</u>	<u>HUNTER CAPACITY</u>	<u>HUNTER DAYS</u>	<u>HARVEST BUCKS - DOES</u>	
I	450	10	60	2	1
II	500	14	79	5	0
III	450	12	74	5	4
IV	460	15	108	6	4
V	400	10	76	2	0
VI	500	15	86	1	0
VII	150	6	28	0	1
VIII	330	8	69	2	1
Sactuary	220	0			
TOTALS	3460	90	577	23	11

Opening Day - November 22

<u>ZONE</u>	<u>HUNTER CAPACITY</u>	<u>HUNTERS</u>	<u>HARVEST BUCKS-DOES</u>	
I	10	13	1	0
II	14	17	3	0
III	12	12	4	0
IV	15	15	3	0
V	10	11	1	0
VI	15	15	0	0
VII	6	6	0	0
VIII	8	8	1	0
TOTALS	90	97	13	0

Seasonal Hunting Pressure and Success Rate

<u>YEAR</u>	<u>PERMITS</u>	<u>HUNTERS</u>	<u>DMU#54 PERMITS</u>	<u>VISITS</u>	<u>VISITS PER HUNTER</u>	<u>SUCCESS RATE BUCKS - TOTAL</u>	
1991	703	208		-	-	24%	36%
1992	503	227		769	3.4	15%	29%
1993	395	186	90	577	3.1	12%	18%

Opening Day Hunting Pressure and Success Rates

<u>YEAR</u>	<u>PERMITS</u>	<u>HUNTERS</u>	<u>HARVEST BUCK - DOE</u>		<u>SUCCESS RATE BUCKS %</u>	<u>% OF TOTAL BUCK HARVEST</u>
1987	171	256	23	13	9	58
1988	139	208	17	10	8	77
1989	78	117	12	3	10	55
1990	88	132	17	1	13	53
1991	73	108	32	0	30	65
1992	71	109	18	0	17	55
1993	68	97	13	0	13	56

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YEARS TOTAL	ANTLER BEAM DIA. (MM)	AVERAGE WT. (LBS)	MALES (BUCKS)										SUB-LEGAL	
			SPIKE	3	4	5	6	7	8	9	10			
Fawn	0	46												
1 1/2	14.7	89	9	2	1	0	1	0	0	0	0	0	0	2
2 1/2	18.4	103	1	1	1	0	2	0	0	0	0	0	0	0
3 1/2	23.5	126	0	0	0	0	0	1	1	0	0	0	0	0
TOTAL			10	3	2	0	3	1	1	1	0	0	0	2

YEARS	FAWN	1 1/2	2 1/2	3 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2-9 1/2	10 1/2	TOTAL
HARVEST	1	2	3	1	2	1	1	0	0	0	11

ADULT FEMALE TO ADULT MALE HARVEST RATIO

YEAR	AF/AM	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
		0.34	0.28	0.52	0.76	0.95	0.5	0.44	0.45	0.91	0.45

ADULT MALE HARVEST PER SQUARE MILE - (BLACK ROCK FOREST - 6 SQUARE MILES)

YEAR	AM/SM	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
		4.8	6.5	8	5.5	3.7	3.7	5.3	8.2	5.5	3.6

BLACK ROCK FOREST BIG BUCKS

<u>YEAR</u>	<u>HUNTERS NAME</u>	<u>POINTS</u>	<u>AGE/YRS</u>	<u>WEIGHT(lbs)</u>	<u>BEAM DIAMETER(mm)</u>
1984	GREG LUDATO	8	2 1/2	126	29
	LARRY KIRWAN	7	3 1/2	120	29
1985	RAY KENNY	10	2 1/2	130	27
	AL PALUMBO	8	3 1/2	123	36
	JOEL TRUNCALI	8	3 1/2	130	24
1986	FURMAN CONKLIN	10	3 1/2	157	31
	TOM STEED	8	3 1/2	132	30
	JIM BOTHWELL	8	2 1/2	121	28
	PETE VETERE	8	2 1/2	125	27
1987	GENE CONKLIN	8	3 1/2	152	35
	CHARLES CHATFIELD	8	2 1/2	135	28
1988	BOB SMITH SR.	7	2 1/2	138	25
1989	JEFF PAVIA	8	2 1/2	147	26
1990	DAVE RICE	8	2 1/2	138	27
1991	STEVE OTLOWSKI	10	3 1/2	124	27
	JOHN O'ROURKE	8	3 1/2	138	25
	JOE SWANSON	7	3 1/2	140	21
	JEFF PAVIA	8	2 1/2	120	28
	BOB BATES	6	2 1/2	122	26
	DAVE BARKI	8	2 1/2	114	26
1992	FURMAN CONKLIN	5	4 1/2	162	31
	RALPH DEPEW	7	3 1/2	154	28
	DOUG SPAULDING	8	3 1/2	150	23
	BOB SHERMAN JR	8	3 1/2	120	27
	LOU GIZZARELLI	6	3 1/2	132	25
	TONY TALLARICO	8	3 1/2	122	24
	JEFF PAVIA	8	2 1/2	116	25
1993	HENRY MESEROLE	8	3 1/2	134	25
	AL CRUDELE	7	3 1/2	118	22

FAWNS

YEAR	AGE (Months)	SEX	WEIGHT (Lbs.)	HEART GIRTH (Inches)
1984	6	F	50	27 1/2
1985	5	M	47	27
	5	M	55	29
6 Males, 3 Females	5	M	43	23
Average weight - 59 lbs.	6	M	59	28
	6	M	56	29
	6	M	75	30
	6	F	45	28
	6	F	50 (72 LIVE)	28
	6	F	48	28
1986	5	M	36	24
	5	M	50	26
8 Males, 4 Females	5 to 6	M	42	27
Average weight - 41 lbs.	5 to 6	M	36	23
	6	M	40	23 1/2
	6	M	45	24
	6	M	50	26
	6	M	62	28 1/2
	5	F	22	20
	5 to 6	F	45	27
	6	F	32	21 1/2
	6	F	34	24
1987	5	M	33	22 1/2
	5	M	34	22
7 Males, 4 Females	5	M	35	25
Average Weight - 40 lbs.	5	M	35	\
	5 to 6	M	54	27 1/2
	6	M	37	26
	6	M	\	\
	5	F	32	\
	6	F	42	26 1/2
	6	F	46	27 1/2
	6	F	55	28 1/2

FAWNS continued

YEAR	AGE (Months)	SEX	WEIGHT (Lbs.)	HEART GIRTH (Inches)
1988 1 Male, 3 Females Average Weight - 48 lbs.	5	M	44	25
	5	F	43	\
	5	F	43	26
	6	F	62	31
1989 3 Males Average Weight - 55 lbs.	6	M	60	29
	6	M	64	29
	6	M	42	26 1/2
1990 3 Males, 2 Females Average Weight - 54 lbs.	5	M	42	27
	5	M	65	30
	6	M	60	30 1/2
	6	F	48	28
	6	F	\	\
1991 3 Males, 1 Female Average Weight - 57 lbs.	5 to 6	M	56	27
	6	M	62 (82 LIVE)	30 1/2
	6	M	58	29
	6	F	52	30
1992 1 Male, 2 Females Average Weight - 42 lbs.	6	M	48	26 1/2
	5	F	43	26
	5 to 6	F	36	27
1993 1 Male, 1 Female Average Weight - 47 lbs	5	M	46	24 1/2
	6	F	48	27 1/2

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YEARLING MALES

YEAR	SPK	ANTLER POINT CLASS							SUB LEGAL	TOTAL MALES	AVG. PTS.	AVG BEAM DIA. (MM)	AVERAGE WT. (LBS)	FREQ. %
		3	4	5	6	7	8	9						
1984	14	2	2	0	1	0	0	0	3	22	2.6	17	89	76
1985	12	3	8	3	2	1	0	0	0	29	3.4	17.8	85	82
1986	17	6	7	4	3	0	0	0	0	37	3.2	16.1	84	77
1987	14	1	2	0	0	0	1	0	4	22	2.6	15	82	66
1988	7	3	0	1	2	0	0	0	1	14	3.1	15	84	64
1989	8	2	0	0	1	0	0	0	4	15	2.5	14.7	80	68
1990	5	5	3	2	2	0	0	0	0	17	3.5	16.3	88	56
1991	14	3	11	1	1	1	0	0	0	31	3.2	16.6	94	63
1992	6	3	7	1	3	0	0	0	0	20	3.7	16.7	86	61
1993	9	2	1	0	1	0	0	0	2	15	2.6	14.7	89	68

2 1/2 YEAR OLD MALES

YEAR	SPK	ANTLER POINT CLASS							SUB LEGAL	TOTAL MALES	AVG. PTS.	AVG BEAM DIA. (MM)	AVERAGE WT. (LBS)	FREQ. %
		3	4	5	6	7	8	9						
1984	1	0	0	0	1	1	2	0	0	5	6.2	23.8	115	17
1985	0	0	1	0	0	0	0	1	0	3	7	23	114	8
1986	0	0	2	2	2	0	3	0	0	9	6	23.5	113	19
1987	1	2	4	1	0	0	2	0	0	10	4.5	19.4	101	30
1988	2	0	2	2	0	2	0	0	0	8	4.3	18.8	96	36
1989	0	0	3	1	1	1	1	0	0	7	5.4	20	95	32
1990	0	1	2	1	4	1	4	0	0	13	6.1	21.6	105	40
1991	0	0	2	1	6	1	4	0	0	14	6.3	21.8	112	28
1992	0	0	1	4	0	1	1	0	0	7	5.6	20.9	110	21
1993	1	1	1	0	2	0	0	0	0	5	4.2	18.4	103	23

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3 1/2 - 4 1/2 YEAR OLD MALES

Year	Spike	3	4	Antler Point Class						Sub Legal	Total Males	Average Points	Avg. Beam Dia. (mm)	Average Wt. (lbs.)	Freq. %
				5	6	7	8	9	10						
1984	0	0	0	0	0	2	0	0	0	2	7	27	120	7	
1985	0	0	0	1	1	0	2	0	0	4	6.8	26.8	119	10	
1986	0	0	0	0	0	0	1	0	1	2	9	30.5	145	4	
1987	0	0	0	0	0	0	1	0	0	1	8	35	152	3	
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1990	0	0	0	1	0	0	0	0	0	1	5	22	94	3	
1991	0	0	0	0	1	1	1	1	0	4	7.8	24.3	117	8	
1992	0	0	0	1	1	1	3	0	0	6	7	26.3	140	18	
1993	0	0	0	0	0	1	1	1	0	2	7.5	23.5	126	9	

FEMALE AGE CLASS IN YEARS

Year	Fawn	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2-9	9 1/2	10	10 1/2	TOTAL	% 3 1/2 yrs. +
1984	1	5	1	0	1	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	10	30
1985	3	2	5	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	14	28
1986	4	5	7	4	4	1	1	2	2	0	0	0	0	1	2	0	0	0	0	1	29	45
1987	4	1	8	6	6	5	5	2	2	1	2	2	1	2	2	0	0	0	0	0	29	55
1988	3	3	6	4	4	4	5	2	2	0	1	1	0	1	1	0	0	0	0	0	24	50
1989	0	1	1	1	4	4	3	3	1	1	0	0	0	0	0	0	0	0	0	0	11	82
1990	2	1	4	6	6	1	1	1	0	0	0	0	0	2	2	0	0	0	0	0	16	56
1991	1	7	6	3	3	3	3	1	1	3	0	0	0	1	1	0	0	0	0	1	23	39
1992	2	6	5	3	3	2	2	2	5	5	3	3	2	2	2	0	0	0	0	1	32	59
1993	1	2	3	1	1	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	11	45

FAWN VS. YEARLING

YEAR	FAWNS		ABD mm	YEARLING		MIN. KNOWN POP MALES
	# TAKEN	AVG. WT.		AVG. WT.	# TAKEN	
1984	1	50	17	89	22	42
1985	9	59	17.8	85	29	56
1986	12	41	16.1	84	37	41
1987	11	40	15	82	21	29
1988	4	48	15	84	13	36
1989	3	55	14.7	80	14	44
1990	5	54	16.3	88	18	44
1991	4	57	16.6	94	31	28
1992	3	42	16.7	86	20	19
1993	2	47	14.7	89	15	1

TRACKING INDEX

YEAR	DISTANCE (Miles)	# OF DEER	DEER PER MILE	# OF GROUPS	DEER PER GROUP
1988	29	188	6.5	85	2.2
1989	20	139	7	51	2.7
1990	54.5	377	7	121	3.1
1991	48.5	384	7.9	86	4
1992	44.7	394	8.8	98	4
1993	42.4	345	8.1	120	2.6

% OF TOTAL

GROUP	1988	1989	1990	1991	1992	1993
1 DEER	28	31	15	5	1	14
2 DEER	36	31	25	15	23	38
3 DEER	25	16	29	29	16	21
4 DEER	9	12	21	19	21	14
5 DEER	1	2	4	13	7	7
6 DEER	1	2	4	8	5	2
7 DEER		2	1	6	8	2
8 DEER		2	1	1	2	1
9 DEER		\		2		
10 DEER		2		1		
AVG. DEER/GROUP	2.2	2.7	3.1	4	4	2.6
BUCK TAKE	23	25	35	52	34	23
TOTAL TAKE	47	36	51	75	66	34