

UTAH BLACK BEAR ANNUAL REPORT 2009



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Annual Performance Report for Federal Aid Project W-65-M, segments 57 and 58

State of Utah
Department of Natural Resources
DIVISION OF WILDLIFE RESOURCES

An Equal Opportunity Employer

James F. Karpowitz
Director

TABLE OF CONTENTS

Introduction	1
Methods	1
Results	2
Statewide harvest and mortality	3
Sport harvest	6
Survival	7
Method of take and guiding	7
Age and sex ratios	8
Pursuit	9
Livestock depredation	12
Appendix: Historic black bear harvest by hunt unit	13

INTRODUCTION

The black bear harvest report presents black bear harvest and hunter effort trends across the state of Utah, based on data collected from bear hunters and compiled by the Utah Division of Wildlife Resources (Division). This report represents the black bear portion of Federal Aid Project W-65-M, segments 57 and 58, grant agreement periods October 1, 2008 through September 30, 2009 and October 1, 2009 through September 30, 2010, respectively. This Federal Aid project covers the 2009 hunting season. This report presents black bear statewide trends since the 1960s, as well as population trend indicators.

For purposes of effective management, the state of Utah is divided into 30 wildlife management units, which are the same for all hunted species. For black bears, some of these units were combined into larger units in order to provide hunters more opportunity, and a few units were open to pursuit only. Hunt units were managed through a limited entry permit system, where a hunter had to apply for and draw from a pool of limited permits. The hunter was allowed to hunt the entire season, or until the permit was filled. Applicants who drew a limited entry permit were required to wait two years before applying for another permit. The season limit was one bear, and females with cubs, or cubs, were not legal to harvest. An unlimited number of pursuit only permits, valid on any open unit statewide, were also available.

Season dates and management units for black bear harvest and pursuit, Utah 2009.

Season	# of open hunt units	# of open pursuit units	Hunt season dates		Pursuit season dates		
			Spring	Fall	Spring	Summer	Fall
2009	21	21	4/11-5/31, 6/1-6/7*	8/22-9/30, 10/31-11/22	4/11-5/31	7/11-8/9	10/31-11/22

* Cache/Ogden/Morgan Rich/East Canyon; Central Mountains, Manti-South; Chalk Creek/Kamas/North Slope, Summit; Wasatch Mountains, Currant Creek, Avintaquin; Wasatch Mountains, West only.

METHODS

All successful hunters were required to have their bear checked by a Division office or officer within 48 hours of harvest. At that time, tooth and hair samples were collected, and a permanent tag affixed. Bear harvest information was also collected at that time. Teeth were sectioned and cementum annuli counted by Matson's Lab in Milltown, Montana, to estimate age of harvested bear. Survival rates were estimated using the Chapman-Robson estimator. Ages for bears harvested during the fall season covered in this annual report are not available at the time of publishing. Therefore, mean ages and survival rates are calculated using ages from bears harvested in the spring and the previous fall. Age data for depredation and other mortality are also not available at the time of publishing, so mean ages are calculated using ages from bears harvested from July of the previous year to June 30 of the current year. Age data and survival, beginning with 2006, were adjusted in the 2007 report to reflect this change in methods.

In past years, a black bear harvest mail questionnaire was sent each fall to all bear permit holders. This questionnaire was used to obtain hunter effort information from those who did not harvest a bear. Beginning with the 2000 bear season, this questionnaire was discontinued. As

such, numbers of hunters afield each season and bears per hunter were no longer calculated. For the 2009 spring and summer pursuit seasons, both an Internet survey and a telephone survey were conducted to obtain bear pursuit data. No data was collected for the fall pursuit season in 2009.

Harvest data from depredating bears, or bears involved in human safety incidents, were taken from damage reports received from USDA-APHIS Wildlife Services and from bears taken by Division personnel. Livestock operators could kill damaging bears and were required to have the carcass checked by a Division officer within 48 hours. Harvest information was collected at that time.

RESULTS

In 2009, a total of 338 limited entry black bear permits were issued, which included 19 conservation and convention permits. Hunters harvested 150 bears, for a total of 44% of permits being filled. Of the 150 bears harvested, 109 were taken in spring and 41 in fall, and the percent permits filled was the same as it was in 2008. The average age of bears harvested in 2009 was 6.1 and the estimated adult survival was 81%, similar to 2008. The percent of females in the harvest increased from 29% in 2008 to 31% in 2009, which was still below the maximum percentage of females allowed in the harvest in order to maintain a sustainable population. A total of 55 bears were killed as a result of depredation or other mortality.

424 black bear pursuit permits were sold in 2009. 359 pursuers went afield during the spring pursuit season and 287 pursuers went afield during the summer pursuit season. During the spring pursuit season, pursuers treed 0.39 bears per day, while during the summer pursuit season, pursuers treed 0.52 bears per day. More detailed information describing the 2009 black bear harvest and black bear harvest trends can be found in the following tables and figures.

Statewide black bear historical harvest statistics, Utah 1967–2000.

Year	Permits sold	Hunters afield	Sport harvest	Permits filled (%)	Bears / hunter	% females	Depredation / other mortality	Total harvest + mortality	Pursuit permits*
1967	—	—	15	—	—	—	12	27	—
1968	—	—	12	—	—	—	9	21	—
1969	43	31	25	58	0.81	—	27	52	—
1970	155	119	9	6	0.08	—	18	27	—
1971	59	48	17	29	0.35	—	16	33	—
1972	96	77	19	20	0.25	—	7	26	—
1973	125	114	25	20	0.22	—	0	25	—
1974	134	117	29	22	0.25	—	9	38	—
1975	161	144	22	14	0.15	41	2	24	161
1976	107	96	10	9	0.10	42	7	17	48
1977	149	127	26	17	0.20	33	6	32	77
1978	222	185	40	18	0.22	33	10	50	114
1979	240	196	26	11	0.13	19	5	31	91
1980	217	177	26	12	0.15	28	6	32	95
1981	263	227	39	15	0.17	30	4	43	95
1982	229	188	38	17	0.20	39	6	44	93
1983	219	176	18	8	0.10	44	9	27	98
1984	217	184	26	12	0.14	31	6	32	33
1985	269	230	29	11	0.13	27	10	39	86
1986	332	302	72	22	0.24	45	6	78	90
1987	326	262	44	13	0.17	35	25	69	156
1988	491	394	69	14	0.18	35	28	97	173
1989	687	556	97	14	0.17	30	10	107	187
1990	142	119	22	15	0.18	18	16	38	355
1991	142	119	35	25	0.29	23	15	50	364
1992	142	124	32	23	0.26	19	25	57	524
1993	162	136	35	22	0.26	51	12	47	570
1994	168	153	42	25	0.27	40	20	62	552
1995	175	156	53	30	0.34	34	34	87	627
1996	181	174	68	38	0.39	43	35	103	630
1997	192	176	50	26	0.28	44	31	81	638
1998	202	181	46	23	0.25	42	42	88	635
1999	220	199	57	26	0.29	30	35	92	264
2000	214	194	75	35	0.39	35	72	147	285

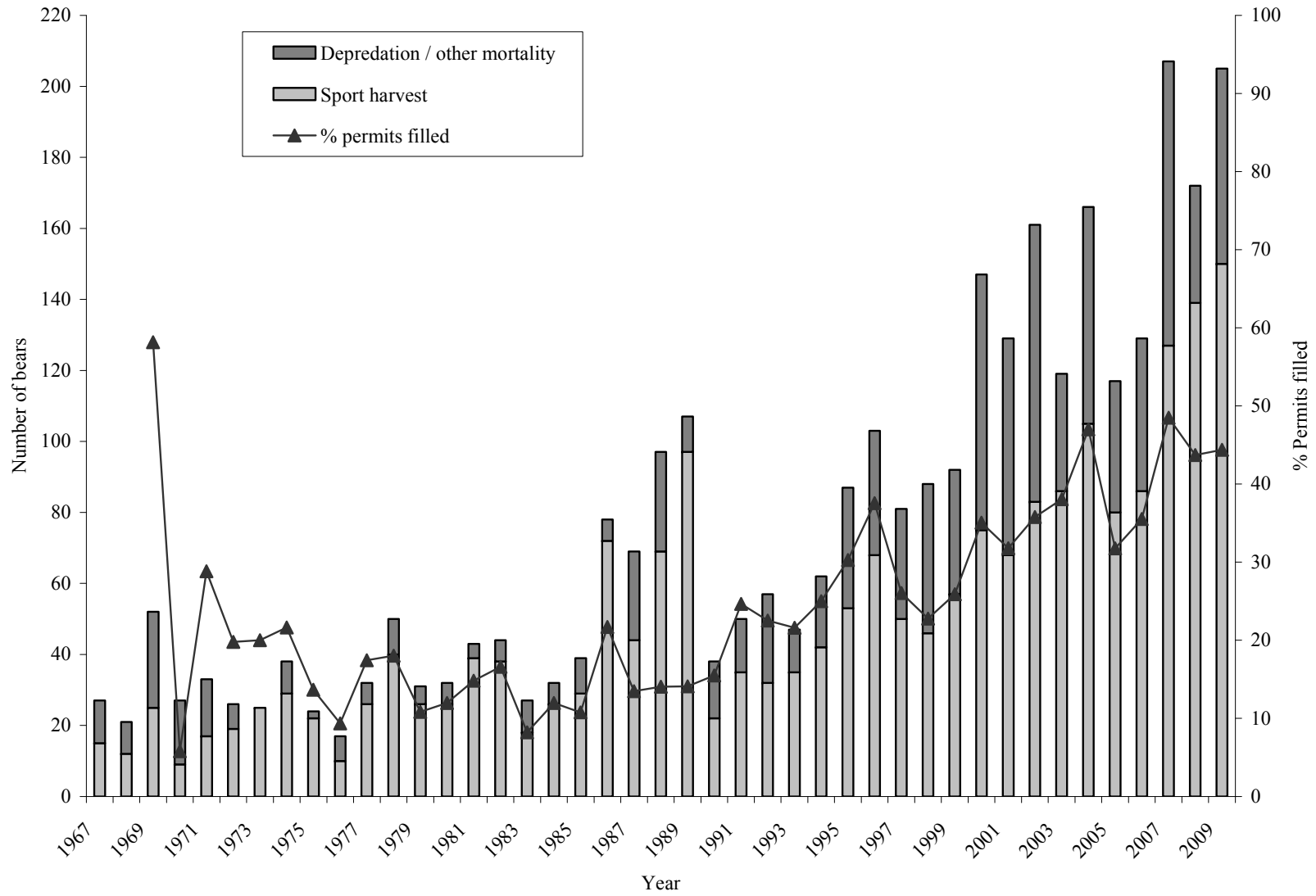
* Beginning in 1999, a bear-only pursuit permit was issued. Prior to 1999, cougar/bear pursuit permits were issued.

Statewide black bear harvest statistics, Utah 2001–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality	
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% females	Mean age	Adult survival	Male	Female		Unknown
2001	214	17	3	24	22	2	68	32	37	6.9	0.79	39	21	1	129
2002	232	30	6	23	21	3	83	36	33	6.8	0.83	43	27	8	161
2003	226	27	12	32	15	0	86	38	31	7.4	0.83	22	8	3	119
2004	240	30	7	53	15	0	105	44	21	6.6	0.82	34	23	4	166
2005	252	14	3	47	16	0	80	32	24	6.6	0.84	16	17	4	117
2006	242	36	20	22	8	0	86	36	33	6.8	0.86	20	16	7	129
2007	262	60	19	31	17	0	127	48	28	5.7	0.80	48	24	8	207
2008	318	64	25	32	16	2	139	44	29	5.9	0.81	18	8	7	172
2009	338	75	34	29	12	0	150	44	31	6.1	0.81	34	20	1	205
Mean*	258	39	14	33	16	1	103	39	30	6.5	0.82	30	18	5	156

* Since the implementation of the spring bear hunt in 2001.

Statewide black bear mortality, Utah 1967–2009.



Statewide black bear spring and fall sport harvest by unit / subunit, Utah 2009.

Unit / Subunit	Permits issued				Spring harvest		Fall harvest		Total harvest	% permits filled	% females	Mean age of harvest*
	Spring	Fall	Cons/Conv	Total	Male	Female	Male	Female				
Cache/Ogden/Morgan-Rich/East Canyon	2	2		4	0	0	0	0	0	0	—	—
Chalk Creek/Kamas/North Slope, Summit	6	5		11	1	2	0	0	3	27	67	6.7
North Slope, Daggett/Three Corners	5	2		7	3	0	0	0	3	43	0	4.0
South Slope, Yellowstone	10	7	1	18	1	0	0	0	1	6	0	8.0
South Slope, Vernal/Diamond Mountain/Bonanza	12	5	1	18	2	1	5	1	9	50	22	4.7
Book Cliffs	17	5	1	23	10	0	0	0	10	43	0	8.9
Nine Mile, Anthro, Range Creek	19	14	1	34	9	3	2	3	17	50	35	7.9
La Sal, La Sal Mountains/Dolores Triangle	27	7	2	36	12	5	3	2	22	61	32	5.3
San Juan	27	7	1	35	5	7	3	3	18	51	56	6.4
Central Mountains, Nebo	8	4		12	3	0	0	0	3	25	0	5.5
Central Mountains, Manti-North	12	4	1	17	3	2	2	0	7	41	29	4.0
Central Mountains, Manti-South	8	3	1	12	2	5	2	0	9	75	56	6.3
Wasatch Mountains, West	19	8	1	28	6	4	1	0	11	39	36	4.8
Wasatch Mountains, Currant Creek/Avintaquin	17	6	1	24	4	4	2	1	11	46	45	4.7
Fillmore, Pahvant/Beaver	6	4		10	3	1	3	0	7	70	14	8.7
Monroe	1	1		2	0	0	0	0	0	0	—	—
Mt. Dutton	1	1		2	0	0	0	0	0	0	—	—
Plateau, Fishlake/Thousand Lakes	3	3		6	2	0	0	0	2	33	0	5.5
Plateau, Boulder/Kaiparowits	12	12	1	25	6	0	5	2	13	52	15	6.1
Paunsaugunt	1	1		2	1	0	0	0	1	50	0	8.0
Panguitch Lake/Zion	5	5	1	11	2	0	1	0	3	27	0	3.0
Statewide total	218	106	14**	338	75	34	29	12	150	44	31	6.1

* Mean age of harvest is based on bears harvested fall 2008 and spring 2009.

** Total conservation/convention permits includes 1 statewide conservation permit.

Adult black bear survival estimated with Chapman-Robson estimator, Utah 1996–2009.

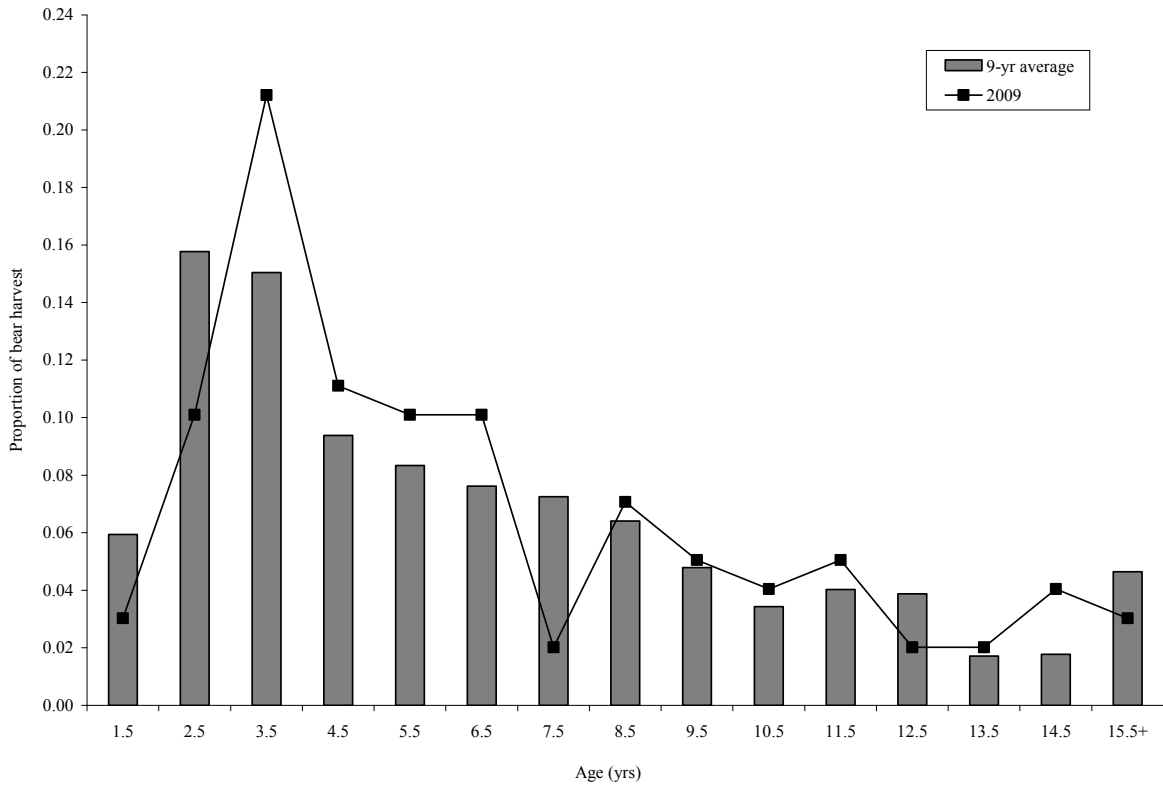
Year	n	Adult survival (%)	95% confidence interval
1996	83	79.4	75.4–83.4
1997	60	78.0	73.0–83.0
1998	54	77.7	72.4–83.0
1999	—	82.0	77.7–86.2
2000	83	80.9	77.2–84.6
2001	98	81.5	78.2–84.8
2002	130	81.2	78.3–84.1
2003	68	83.6	80.0–87.2
2004	115	82.4	79.5–85.4
2005	58	83.6	79.7–87.5
2006	62	85.0	81.5–88.5
2007	109	80.2	76.8–83.5
2008	99	81.0	77.7–84.4
2009	142	81.0	78.2–83.9

* Survival rates since 2001 are estimated using ages from bears harvested in the spring and the previous fall.

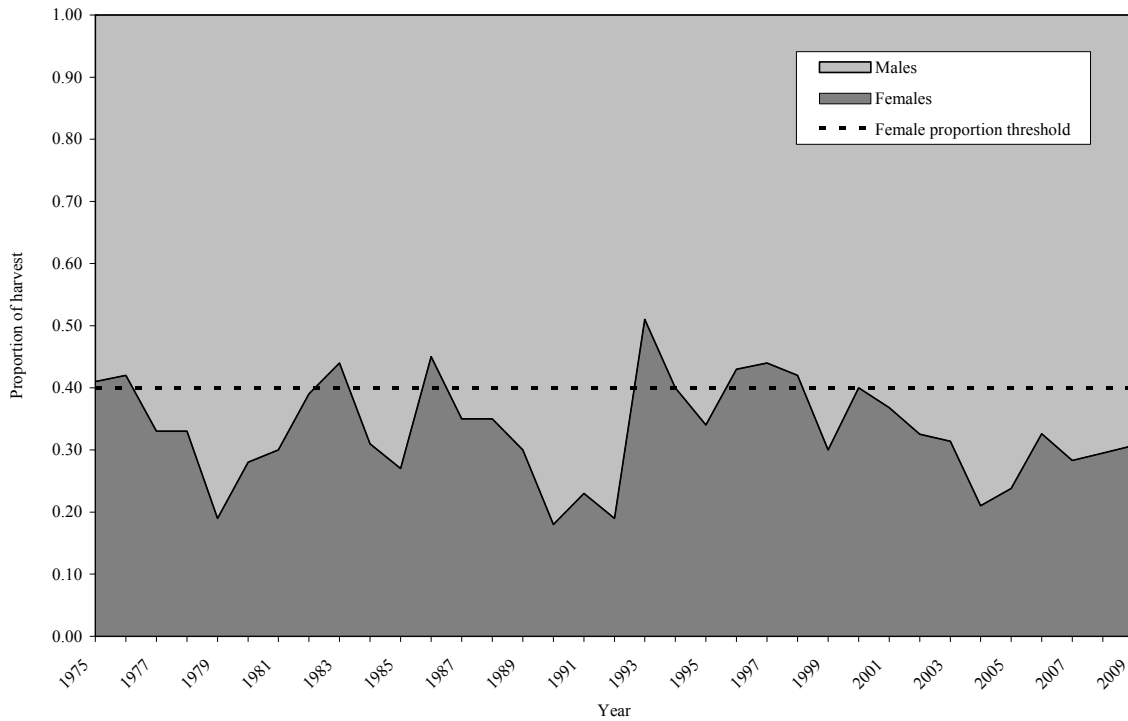
Percent of black bear harvest by method of take, Utah 2001–2009.

Year	Method of take (%)					% harvest taken by archery	% harvest taken with the use of a guide
	Bait	Dogs	Calls	Stalk	Unknown		
2001	6	65	1	4	24	12	41
2002	8	71	0	1	19	18	33
2003	12	70	0	0	19	26	22
2004	17	65	2	8	9	31	37
2005	8	84	1	3	5	26	29
2006	6	77	0	10	7	21	41
2007	12	75	0	7	6	26	32
2008	14	71	1	12	2	31	33
2009	19	66	0	12	3	33	31

Proportion of black bears harvested by age class, Utah 2009.



Sex ratio of black bear sport harvest, Utah 1975–2009.



Historic statewide black bear pursuit statistics, Utah 2002–2009.

Year	Permits sold	Spring				Summer / fall			
		n	Pursuers	Bears / pursuit-day	Bears / pursuer	n	Pursuers	Bears / pursuit-day	Bears / pursuer
2002	359	88	318	0.46	7.5	—	—	—	—
2003	378	91	291	0.49	8.7	65	228	0.52	6.2
2004	373	73	309	0.43	5.0	54	212	0.45	5.9
2005	414	103	256	0.41	5.0	220	436	0.33	2.7
2006	353	78	328	0.29	3.7	—	—	—	—
2007	363	120	329	0.54	6.5	57	157	0.62	4.3
2008	391	96	313	0.62	7.8	73	238	0.93	5.4
2009	424	90	359	0.39	5.1	72	287	0.52	4.9
Mean	382	92	313	0.45	6.1	90	260	0.51	4.6

Spring 2002 includes summer/fall 2001 and spring 2002.

Spring 2003 includes summer/fall 2002 and spring 2003.

Beginning with 2007, summer/fall only includes summer season.

Statewide spring black bear pursuit statistics by unit / subunit, Utah 2009.

Unit / Subunit	n	Pursuers afield	Pursuit- days afield	Number of bears treed					Bears treed / pursuit-day	Bears treed / pursuer
				Males	Females	Cubs	Unknown	Total		
Chalk Creek/Kamas/North Slope, Summit	1	4	58	8	4	0	0	12	0.21	3.0
North Slope, Daggett/Three Corners	0	0	0	0	0	0	0	0	—	—
South Slope, Yellowstone	1	4	23	4	4	0	0	8	0.35	2.0
South Slope, Vernal/Diamond Mountain/Bonanza	13	51	413	66	85	31	12	194	0.47	3.8
Book Cliffs	23	92	975	204	230	87	4	525	0.54	5.7
Nine Mile, Anthro, Range Creek	3	12	89	23	19	0	4	46	0.52	3.8
La Sal, La Sal Mountains/Dolores Triangle	22	91	671	105	128	76	27	336	0.50	3.7
San Juan	18	73	621	110	104	19	36	269	0.43	3.7
Central Mountains, Nebo	8	31	197	12	12	0	0	24	0.12	0.8
Central Mountains, Manti-North	11	43	417	23	27	4	0	54	0.13	1.3
Central Mountains, Manti-South	5	19	259	15	23	4	0	42	0.16	2.2
Wasatch Mountains, West	6	23	278	15	46	46	4	111	0.40	4.8
Wasatch Mountains, Currant Creek/Avintaquin	6	23	131	12	23	27	4	66	0.50	2.9
Fillmore, Pahvant/Beaver	5	19	336	35	39	23	4	101	0.30	5.3
Monroe	0	0	0	0	0	0	0	0	—	—
Mt. Dutton	0	0	0	0	0	0	0	0	—	—
Plateau, Fishlake/Thousand Lakes	1	4	15	0	0	0	0	0	0.00	0.0
Plateau, Boulder/Kaiparowits	10	39	205	31	19	0	4	54	0.26	1.4
Paunsaugunt	0	0	0	0	0	0	0	0	—	—
Panguitch Lake/Zion	0	0	0	0	0	0	0	0	—	—
Unknown	2	8	43	0	0	0	0	0	0.00	0.0
Statewide total*	90	359	4731	663	763	317	99	1842	0.39	5.1

* Totals for sample size and pursuers afield are not the sum of the columns because pursuers could pursue on multiple units.

120 permit holders surveyed; 391 permits sold as of July 31, 2008; Projection factor = 3.26

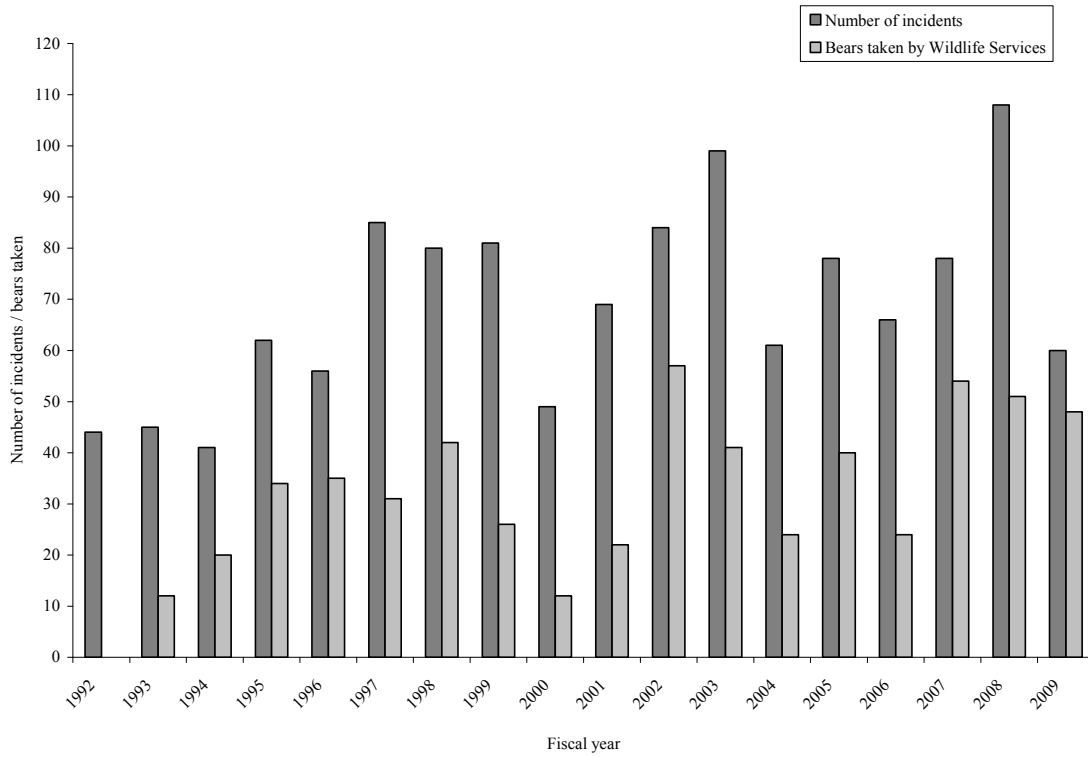
20% of permit holders did not pursue spring season

Statewide summer black bear pursuit statistics by unit / subunit, Utah 2009.

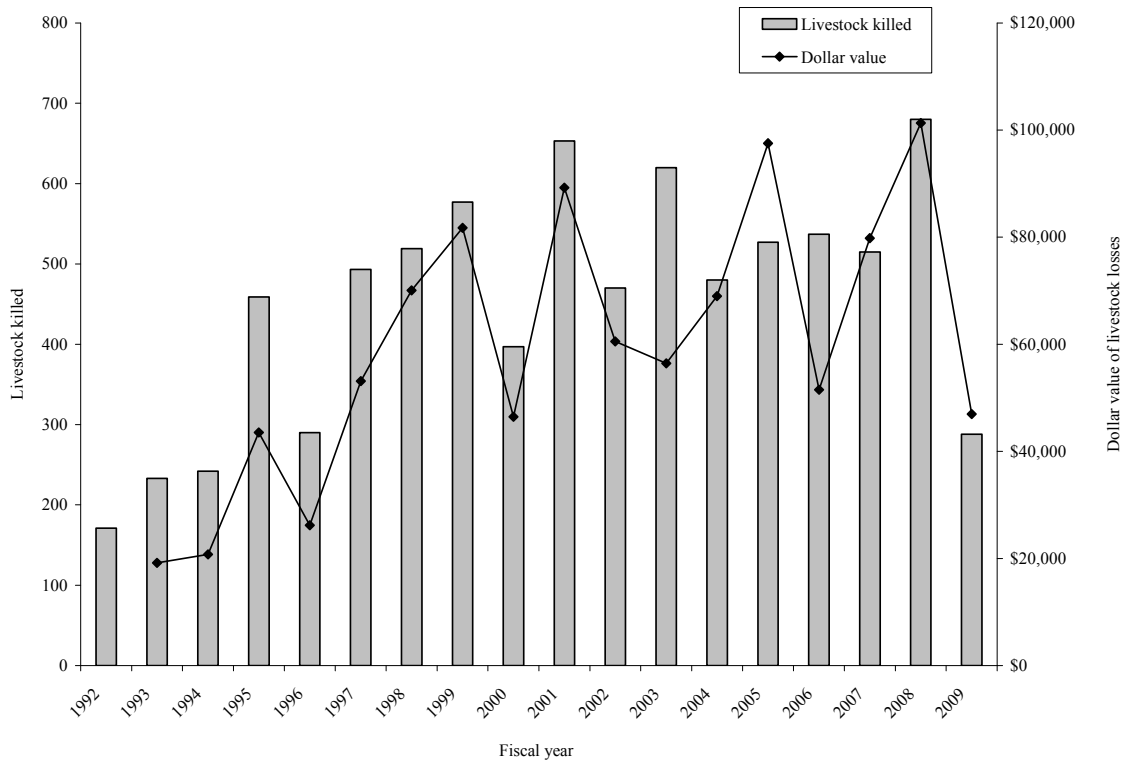
Unit / Subunit	n	Pursuers afield	Pursuit- days afield	Number of bears treed					Bears treed / pursuit-day	Bears treed / pursuer
				Males	Females	Cubs	Unknown	Total		
Cache/Ogden/Morgan-Rich/East Canyon	1	4	23	0	0	0	0	0	0.00	0.0
Chalk Creek/Kamas/North Slope, Summit	3	12	93	4	0	0	4	8	0.09	0.7
North Slope, Daggett/Three Corners	0	0	0	0	0	0	0	0	—	—
South Slope, Yellowstone	1	4	31	4	8	0	4	16	0.52	4.0
South Slope, Vernal/Diamond Mountain/Bonanza	13	50	437	77	143	0	23	243	0.56	4.9
Book Cliffs	6	23	251	81	100	39	5	225	0.90	9.8
Nine Mile, Anthro, Range Creek	1	4	15	8	4	4	0	16	1.07	4.0
La Sal, La Sal Mountains/Dolores Triangle	8	34	311	58	65	60	17	200	0.64	5.9
San Juan	16	65	622	181	161	59	39	440	0.71	6.8
Central Mountains, Nebo	4	15	124	15	8	0	0	23	0.19	1.5
Central Mountains, Manti-North	5	20	84	5	15	0	0	20	0.24	1.0
Central Mountains, Manti-South	6	24	316	32	42	4	0	78	0.25	3.3
Wasatch Mountains, West	8	31	105	12	8	0	4	24	0.23	0.8
Wasatch Mountains, Currant Creek/Avintaquin	2	8	46	0	19	27	0	46	1.00	5.8
Fillmore, Pahvant/Beaver	5	19	104	12	23	12	0	47	0.45	2.5
Monroe	0	0	0	0	0	0	0	0	—	—
Mt. Dutton	0	0	0	0	0	0	0	0	—	—
Plateau, Fishlake/Thousand Lakes	0	0	0	0	0	0	0	0	—	—
Plateau, Boulder/Kaiparowits	5	19	100	8	8	4	0	20	0.20	1.1
Paunsaugunt	0	0	0	0	0	0	0	0	—	—
Panguitch Lake/Zion	1	4	19	0	0	0	0	0	0.00	0.0
Unknown	0	0	0	0	0	0	0	0	—	—
Statewide total*	72	287	2681	497	604	209	96	1406	0.52	4.9

* Totals for sample size and pursuers afield are not the sum of the columns because pursuers could pursue on multiple units. 120 permit holders surveyed; 391 permits sold as of July 31, 2008; Projection factor = 3.26
39% of permit holders did not pursue summer season; 63% of permit holders indicated that they intend to pursue fall season

Livestock depredation incidents and black bears killed by Wildlife Services, Utah 1992–2009.



Livestock losses due to black bear depredation, Utah 1992–2009.



APPENDIX

HISTORIC BLACK BEAR HARVEST BY HUNT UNIT

Black bear mortality for unit 2/3/4/5 – Cache/Ogden/Morgan-Rich/East Canyon, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% females	Mean age		Male	Female	Unknown
		Male	Female	Male	Female									
1990	1			0	0	0	0	0	—	—	0	0	0	0
1991	1			0	0	0	0	0	—	—	0	0	0	0
1992	1			0	0	0	0	0	—	—	0	0	0	0
1993	1			0	0	0	0	0	—	—	0	0	0	0
1994	1			0	0	0	0	0	—	—	0	0	0	0
1995	1			0	0	0	0	0	—	—	0	0	0	0
1996	1			0	0	0	0	0	—	—	0	0	0	0
1997	1			0	0	0	0	0	—	—	1	0	0	1
1998	1			0	0	0	0	0	—	—	0	0	1	1
1999	1			0	0	0	0	0	—	—	1	0	0	1
2000	1			1	0	0	1	100	0	3.0	0	0	0	1
2001	1			0	0	0	0	0	—	—	0	0	0	0
2002	1			0	0	0	0	0	—	—	0	0	0	0
2003	1			0	0	0	0	0	—	—	0	0	0	0
2004	1			0	0	0	0	0	—	—	0	0	0	0
2005	1			0	0	0	0	0	—	—	0	0	0	0
2006	2	0	0	0	0	0	0	0	—	—	0	0	1	1
2007	2	0	0	0	0	0	0	0	—	—	3	1	0	4
2008	4	0	0	0	0	0	0	0	—	—	1	0	0	1
2009	4	0	0	0	0	0	0	0	—	—	0	1	0	1
Mean	1	0	0	0	0	0	0	4	0	3.0	0	0	0	1

* Unit 2 was pursuit only in 2003.

** Unit 5 was added to units 2, 3, and 4 in 2004.

Black bear mortality for unit 6/7/8a – Chalk Creek/Kamas/North Slope, Summit, Utah 1990–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
1990	3			0	0	0	0	0	—	—	0	0	0	0
1991	3			0	0	0	0	0	—	—	1	0	0	1
1992	3			1	0	0	1	33	0	—	0	0	0	1
1993	3			0	0	0	0	0	—	—	3	0	0	3
1994	3			0	0	0	0	0	—	—	0	1	0	1
1995	3			0	0	0	0	0	—	—	4	0	0	4
1996	2			0	0	0	0	0	—	—	0	0	0	0
1997	2			1	0	0	1	50	0	—	3	0	0	4
1998	2			0	1	0	1	50	100	—	4	1	0	6
1999	2			0	0	0	0	0	—	—	3	1	0	4
2000	2			0	1	0	1	50	100	—	3	0	0	4
2001	2			0	0	0	0	0	—	—	6	7	0	13
2002	2			0	0	0	0	0	—	—	6	1	0	7
2003	2			1	0	0	1	50	0	—	2	1	0	4
2004	5			1	0	0	1	20	0	2.0	1	3	0	5
2005	5			2	1	0	3	60	33	2.5	2	1	2	8
2006	8	1	0	1	0	0	2	25	0	4.3	3	0	0	5
2007	8	2	0	1	0	0	3	38	0	2.0	8	3	0	14
2008	11	1	0	0	0	0	1	9	0	2.0	3	1	0	5
2009	11	1	2	0	0	0	3	27	67	6.7	0	1	0	4
Mean	4	1	1	0	0	0	1	22	28	3.6	3	1	0	5

Black bear mortality for unit 8bc – North Slope, Daggett/Three Corners, Utah 1998–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
1998	4			0	0	0	0	0	—	—	0	0	0	0
1999	4			1	0	0	1	25	0	1.0	0	0	0	1
2000	4			0	0	0	0	0	—	—	2	0	0	2
2001	4			0	0	0	0	0	—	—	1	0	0	1
2002	4			0	0	0	0	0	—	—	2	2	0	4
2003	4			1	0	0	1	25	0	7.0	0	0	0	1
2004	4			0	0	0	0	0	—	—	1	0	0	1
2005	4			1	1	0	2	50	50	6.0	0	0	0	2
2006	5	0	0	1	0	0	1	20	0	7.0	0	0	0	1
2007	5	0	0	1	1	0	2	40	50	4.0	0	0	0	2
2008	7	1	0	0	1	0	2	29	50	3.0	0	0	0	2
2009	7	3	0	0	0	0	3	43	0	4.0	0	0	0	3
Mean	5	1	0	0	0	0	1	21	25	4.5	1	0	0	2

Black bear mortality for unit 9 – South Slope (all subunits), Utah 1990–2001.

Year	Sport harvest								Depredation / other mortality			Total harvest + mortality		
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male		Female	Unknown
1990	16			2	1	0	3	19	33	—	1	2	0	6
1991	16			4	0	0	4	25	0	—	1	1	0	6
1992	16			2	1	0	3	19	33	—	4	2	0	9
1993	16			4	1	0	5	31	20	—	1	0	0	6
1994	16			3	1	0	4	25	25	—	1	0	0	5
1995	16			3	2	0	5	31	40	—	6	1	0	12
1996	17			3	0	0	3	18	0	—	4	2	0	9
1997	18			1	1	0	2	11	50	—	3	0	0	5
1998	14			1	2	0	3	21	67	—	3	2	3	11
1999	14			5	1	0	6	43	17	—	2	1	0	9
2000	14			4	1	0	5	36	20	—	3	0	0	8
2001	14			2	2	0	4	29	50	2.6	6	5	1	16
Mean	16	—	—	3	1	0	4	25	28	2.6	3	1	0	9

Black bear mortality for unit 9a – South Slope, Yellowstone, Utah 2002–2009.

Year	Sport harvest								Depredation / other mortality			Total harvest + mortality		
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male		Female	Unknown
2002	6			1	1	1	3	50	33	6.7	0	0	0	3
2003	7			0	2	0	2	29	100	11.0	0	0	0	2
2004	6			1	2	0	3	50	67	12.3	1	2	0	6
2005	12			4	1	0	5	42	20	4.0	0	1	0	6
2006	12	1	0	2	2	0	5	42	40	4.2	1	1	0	7
2007	14	1	0	1	2	0	4	29	50	2.3	3	1	1	9
2008	18	0	3	2	1	0	6	33	67	5.6	0	1	0	7
2009	18	1	0	0	0	0	1	6	0	8.0	0	0	0	1
Mean	12	1	1	1	1	0	4	31	48	7.6	1	1	0	5

Black bear mortality for unit 9bcd – South Slope, Vernal/Diamond Mountain/Bonanza, Utah 2002–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
2002	10			0	2	1	3	30	67	2.7	2	1	0	6
2003	9			2	2	0	4	44	50	7.3	0	1	1	6
2004	10			5	2	0	7	70	29	4.6	0	1	0	8
2005	12			6	1	0	7	58	14	7.3	0	0	0	7
2006	10	3	1	1	1	0	6	60	33	8.3	0	0	0	6
2007	12	3	0	3	2	0	8	67	25	6.8	1	2	0	11
2008	16	6	1	3	0	0	10	63	10	5.1	1	0	0	11
2009	18	2	1	5	1	0	9	50	22	4.7	0	0	0	9
Mean	12	4	1	3	1	0	7	56	26	5.7	1	1	0	8

Black bear mortality for unit 10 – Book Cliffs, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	18			1	2	0	3	17	67	—	3	0	0	6
1991	18			5	2	0	7	39	29	—	0	0	0	7
1992	18			5	1	0	6	33	17	—	2	0	0	8
1993	18			3	4	0	7	39	57	—	0	0	0	7
1994	18			4	4	0	8	44	50	—	1	0	0	9
1995	18			11	1	0	12	67	8	—	2	0	0	14
1996	18			8	2	0	10	56	20	—	1	0	0	11
1997	18			5	3	0	8	44	38	—	0	0	0	8
1998	30			3	4	0	7	23	57	—	0	0	0	7
1999	30			9	1	0	10	33	10	—	1	1	0	12
2000	29			7	7	0	14	48	50	—	9	3	0	26
2001	15			5	3	0	8	53	38	6.8	1	0	0	9
2002	25			7	5	0	12	48	42	7.3	1	0	1	14
2003	25			4	5	0	9	36	56	8.0	2	0	1	12
2004	25			10	3	0	13	52	23	5.9	2	2	0	17
2005	30			5	3	0	8	27	38	7.3	0	0	0	8
2006	15	4	0	1	0	0	5	33	0	7.5	0	0	0	5
2007	15	7	1	1	0	0	9	60	11	9.8	0	0	0	9
2008	19	9	1	3	1	0	14	74	14	6.2	0	0	0	14
2009	23	10	0	0	0	0	10	43	0	8.9	0	0	0	10
Mean	21	8	1	5	3	0	9	42	29	7.4	1	0	0	11

Black bear mortality for unit 11ab – Nine Mile, Anthro/Range Creek, Utah 1990–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
1990	44			14	0	0	14	32	0	—	6	0	0	20
1991	22			3	2	0	5	23	40	—	1	1	0	7
1992	22			6	0	0	6	27	0	—	4	1	0	11
1993	27			0	4	0	4	15	100	—	0	0	0	4
1994	27			3	7	0	10	37	70	—	4	2	0	16
1995	24			3	4	0	7	29	57	—	3	3	0	13
1996	24			6	6	0	12	50	50	—	5	2	0	19
1997	20			2	2	0	4	20	50	—	1	0	0	5
1998	20			4	1	0	5	25	20	—	0	0	0	5
1999	20			2	1	0	3	15	33	—	0	0	0	3
2000	20			4	4	0	8	40	50	—	9	0	0	17
2001	15	3	0			0	3	20	0	8.3	1	0	0	4
2002	20	7	0			0	7	35	0	5.0	2	3	0	12
2003	20	7	2			0	9	45	22	12.0	0	0	0	9
2004	20	7	2			0	9	45	22	7.6	6	4	0	19
2005	20	2	0			0	2	10	0	6.5	0	0	0	2
2006	22	4	1	1	0	0	6	27	17	10.3	0	0	1	7
2007	26	4	4	1	2	0	11	42	55	5.4	2	3	0	16
2008	29	5	2	1	1	1	10	34	30	6.5	1	0	0	11
2009	34	9	3	2	3	0	17	50	35	7.9	1	2	0	20
Mean	24	5	2	3	2	0	8	32	34	7.3	2	1	0	11

Black bear mortality for unit 13ab – La Sal, La Sal Mountains/Dolores Triangle, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	10			1	0	0	1	10	0	—	2	0	0	3
1991	10			6	1	0	7	70	14	—	1	0	0	8
1992	10			1	1	0	2	20	50	—	1	0	0	3
1993	12			4	1	0	5	42	20	—	0	0	0	5
1994	12			8	0	0	8	67	0	—	0	0	0	8
1995	12			3	3	0	6	50	50	—	0	0	0	6
1996	16			6	5	0	11	69	45	—	2	0	0	13
1997	20			6	8	0	14	70	57	—	6	0	0	20
1998	20			6	5	0	11	55	45	—	0	0	1	12
1999	20			5	4	0	9	45	44	—	0	0	0	9
2000	19			4	6	0	10	53	60	—	2	0	0	12
2001	30	13	3			0	16	53	19	8.1	2	0	0	18
2002	30	17	4			0	21	70	19	6.9	3	0	0	24
2003	30	13	5			0	18	60	28	9.0	1	0	0	19
2004	30	12	3			0	15	50	20	7.9	0	1	0	16
2005	30	8	2			0	10	33	20	7.0	0	3	0	13
2006	30	4	6	2	0	0	12	40	50	9.1	0	0	0	12
2007	30	14	4	3	4	0	25	83	32	4.5	0	0	0	25
2008	32	9	5	5	3	0	22	69	36	6.4	2	1	0	25
2009	36	12	5	3	2	0	22	61	32	5.3	0	0	0	22
Mean	22	11	4	4	3	0	12	56	33	6.7	1	0	0	14

Black bear mortality for unit 14 – San Juan, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	16			4	1	0	5	31	20	—	0	0	0	5
1991	16			3	0	0	3	19	0	—	0	0	0	3
1992	16			3	0	0	3	19	0	—	1	0	0	4
1993	16			0	4	0	4	25	100	—	0	0	0	4
1994	16			4	0	0	4	25	0	—	0	0	0	4
1995	16			5	4	0	9	56	44	—	0	1	0	10
1996	20			9	6	0	15	75	40	—	2	1	0	18
1997	20			4	3	0	7	35	43	—	2	0	0	9
1998	20			6	3	1	10	50	30	—	0	0	0	10
1999	20			4	1	0	5	25	20	—	0	0	0	5
2000	19			9	2	0	11	58	18	—	2	0	0	13
2001	30			12	7	1	20	67	35	7.3	4	3	0	27
2002	30			10	5	0	15	50	33	8.1	3	0	0	18
2003	30			10	3	0	13	43	23	7.4	0	0	0	13
2004	30			18	1	0	19	63	5	8.4	0	0	0	19
2005	30			8	6	0	14	47	43	9.1	1	2	0	17
2006	29	8	6	2	1	0	17	59	41	9.2	2	1	0	20
2007	34	9	2	8	1	0	20	59	15	9.1	0	0	0	20
2008	34	12	2	6	3	0	23	68	22	7.1	1	0	0	24
2009	35	5	7	3	3	0	18	51	56	6.4	1	0	0	19
Mean	24	9	4	6	3	0	12	49	30	7.5	1	0	0	13

Black bear mortality for unit 16a – Central Mountains, Nebo, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	3			0	0	0	0	0	—	—	2	0	0	2
1991	3			0	0	0	0	0	—	—	0	0	0	0
1992	3			0	0	0	0	0	—	—	0	0	0	0
1993	6			0	0	0	0	0	—	—	0	0	0	0
1994	6			0	0	0	0	0	—	—	1	0	0	1
1995	6			0	0	0	0	0	—	—	3	0	0	3
1996	6			0	0	0	0	0	—	—	0	0	0	0
1997	6			0	0	0	0	0	—	—	1	0	0	1
1998	6			1	0	0	1	17	0	—	0	0	0	1
1999	6			1	1	0	2	33	50	—	0	0	0	2
2000	6			2	1	0	3	50	33	—	1	0	0	4
2001	6			0	1	1	2	33	50	2.5	0	0	0	2
2002	6			2	1	0	3	50	33	6.0	1	0	1	5
2003	8			4	0	0	4	50	0	3.0	1	0	0	5
2004	8			2	1	0	3	38	33	3.5	1	0	0	4
2005	8			5	0	0	5	63	0	1.8	0	1	0	6
2006	9	1	0	0	1	0	2	22	50	2.9	0	0	0	2
2007	8	2	1	2	1	0	6	75	33	5.0	1	2	0	9
2008	12	2	1	3	0	0	6	50	17	3.2	1	2	0	9
2009	12	3	0	0	0	0	3	25	0	5.5	2	2	1	8
Mean	7	2	1	1	0	0	2	30	23	3.9	1	0	0	3

Black bear mortality for unit 16b – Central Mountains, North Manti, Utah 1990–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
1990	16			1	0	0	1	6	0	—	3	1	0	5
1991	16			2	0	0	2	13	0	—	2	2	0	6
1992	16			2	0	0	2	13	0	—	4	7	0	13
1993	20			0	2	0	2	10	100	—	1	1	0	4
1994	22			0	0	0	0	0	—	—	1	0	0	1
1995	22			2	0	0	2	9	0	—	1	3	0	6
1996	21			1	2	0	3	14	67	—	6	0	0	9
1997	21			2	2	0	4	19	50	—	5	3	0	12
1998	20			0	1	0	1	5	100	—	4	0	1	6
1999	25			3	3	0	6	24	50	—	2	5	0	13
2000	25			1	3	0	4	16	75	—	3	0	0	7
2001	22			1	5	0	6	27	83	3.5	5	0	0	11
2002	16			1	3	1	5	31	60	10.0	1	1	2	9
2003	16			0	1	0	1	6	100	5.0	2	0	0	3
2004	16			4	1	0	5	31	20	3.0	6	1	0	12
2005	16			7	0	0	7	44	0	3.7	1	1	0	9
2006	16	1	2	2	0	0	5	31	40	3.3	1	0	0	6
2007	15	7	0	2	0	0	9	60	0	3.9	4	2	0	15
2008	17	4	1	1	1	0	7	41	29	3.7	0	0	0	7
2009	17	3	2	2	0	0	7	41	29	4.0	4	6	0	17
Mean	19	4	1	2	1	0	4	21	37	4.3	3	2	0	9

Black bear mortality for unit 16c – Central Mountains, South Manti, Utah 1990–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
1990	17			2	0	0	2	12	0	—	0	0	0	2
1991	17			1	2	0	3	18	67	—	0	0	0	3
1992	17			4	1	0	5	29	20	—	1	1	0	7
1993	18			2	2	0	4	22	50	—	0	0	0	4
1994	20			0	0	0	0	0	—	—	0	0	0	0
1995	20			1	0	0	1	5	0	—	0	1	0	2
1996	20			2	2	0	4	20	50	—	1	0	0	5
1997	20			1	1	0	2	10	50	—	1	1	0	4
1998	16			3	0	0	3	19	0	—	1	3	0	7
1999	20			1	0	0	1	5	0	—	1	1	0	3
2000	20			2	1	0	3	15	33	—	10	2	0	15
2001	18			2	1	0	3	17	33	5.0	7	2	0	12
2002	12			1	0	0	1	8	0	3.0	2	2	0	5
2003	12			3	0	0	3	25	0	7.3	1	1	1	6
2004	12			3	1	0	4	33	25	3.0	5	3	0	12
2005	11			4	0	0	4	36	0	2.8	1	1	0	6
2006	11	3	1	1	1	0	6	55	33	4.0	3	1	0	10
2007	11	2	2	2	1	0	7	64	43	3.7	1	1	2	11
2008	12	1	1	0	1	0	3	25	67	3.5	1	0	0	4
2009	12	2	5	2	0	0	9	75	56	6.3	3	2	0	14
Mean	16	2	2	2	1	0	3	22	34	4.2	2	1	0	7

Black bear mortality for unit 17 – Wasatch Mountains (all subunits), Utah 1990–2000.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
1990	26	—	—	7	0	0	7	27	0	—	6	4	0	17
1991	11	—	—	1	0	0	1	9	0	—	2	0	0	3
1992	11	—	—	1	1	0	2	18	50	—	0	0	0	2
1993	14	—	—	1	2	0	3	21	67	—	1	1	0	5
1994	14	—	—	2	1	0	3	21	33	—	0	2	0	5
1995	14	—	—	2	0	0	2	14	0	—	3	2	0	7
1996	14	—	—	2	3	0	5	36	60	—	9	0	0	14
1997	10	—	—	1	1	0	2	20	50	—	2	0	0	4
1998	26	—	—	0	1	0	1	4	100	—	9	1	4	15
1999	35	—	—	5	2	0	7	20	29	—	5	2	6	20
2000	34	—	—	4	2	0	6	18	33	—	17	0	0	23
Mean	19	—	—	2	1	0	4	19	33	—	5	1	1	10

Black bear mortality for unit 17a – Wasatch Mountains, West, Utah 2001–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
Male	Female	Male	Female											
2001	20	1	0			0	1	5	0	12.0	3	2	0	6
2002	20	4	2			0	6	30	33	8.2	7	9	2	24
2003	20	5	5			0	10	50	50	—	6	0	0	16
2004	20	5	0			0	5	25	0	5.0	3	4	2	14
2005	19	3	1			0	4	21	25	5.3	6	4	1	15
2006	19	4	0	2	1	0	7	37	14	4.5	4	4	1	16
2007	22	1	2	2	1	0	6	27	50	4.2	10	6	5	27
2008	27	3	5	1	1	0	10	37	60	8.7	3	2	3	18
2009	28	6	4	1	0	0	11	39	36	4.8	12	4	0	27
Mean	22	4	2	2	1	0	7	31	37	6.0	6	4	2	18

Black bear mortality for unit 17bc – Wasatch Mountains, Carrant Creek/Avintaquin, Utah 2001–2009.

Year	Sport harvest								Depredation / other mortality			Total harvest + mortality		
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male		Female	Unknown
Male	Female	Male	Female											
2001	14	0	0			0	0	0	—	—	0	0	0	0
2002	14	2	0			0	2	14	0	3.0	3	6	2	13
2003	14	2	0			0	2	14	0	—	3	2	0	7
2004	14	6	2			0	8	57	25	2.6	3	1	0	12
2005	14	1	0			0	1	7	0	2.0	1	1	0	3
2006	16	1	0	1	1	0	3	19	33	5.0	6	5	3	17
2007	16	0	1	0	2	0	3	19	100	2.7	8	2	0	13
2008	20	3	0	1	1	0	5	25	20	6.2	1	0	2	8
2009	24	4	4	2	1	0	11	46	45	4.7	4	1	0	16
Mean	16	2	1	1	1	0	4	24	34	3.9	3	2	1	10

Black bear mortality for unit 21/22 – Fillmore, Pahvant/Beaver, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	1			0	0	0	0	0	—	—	0	0	0	0
1991	1			0	0	0	0	0	—	—	0	0	0	0
1992	1			0	0	0	0	0	—	—	0	0	0	0
1993	1			0	0	0	0	0	—	—	0	0	0	0
1994	1			0	0	0	0	0	—	—	0	0	0	0
1995	1			1	0	0	1	100	0	—	0	0	0	1
1996	1			0	0	0	0	0	—	—	0	0	0	0
1997	1			0	0	0	0	0	—	—	0	0	0	0
1998	1			0	0	0	0	0	—	—	0	0	0	0
1999	1			0	0	0	0	0	—	—	0	0	0	0
2000	1			0	0	0	0	0	—	—	0	0	0	0
2001	1			1	0	0	1	100	0	5.0	0	0	0	1
2002	1			0	0	0	0	0	—	—	1	2	0	3
2003	1			0	0	0	0	0	—	—	0	0	0	0
2004	1			1	0	0	1	100	0	7.0	0	0	0	1
2005	1			0	1	0	1	100	100	13.0	0	0	0	1
2006	2	1	0	0	0	0	1	50	0	8.5	0	0	0	1
2007	2	0	0	0	0	0	0	0	—	—	1	1	0	2
2008	6	2	1	0	0	0	3	50	33	8.0	1	1	0	5
2009	10	3	1	3	0	0	7	70	14	8.7	1	0	0	8
Mean	2	2	1	0	0	0	1	42	20	8.2	0	0	0	1

* Unit 21 was added to 22 to become 21/22 in 2008.

Black bear mortality for unit 23 - Monroe, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	1			0	0	0	0	0	—	—	0	0	0	0
1991	1			0	0	0	0	0	—	—	0	0	0	0
1992	1			0	0	0	0	0	—	—	0	0	0	0
1993	1			0	0	0	0	0	—	—	1	0	0	1
1994	1			0	0	0	0	0	—	—	0	0	0	0
1995	1			0	0	0	0	0	—	—	0	0	0	0
1996	1			0	0	0	0	0	—	—	0	0	0	0
1997	1			0	0	0	0	0	—	—	0	0	0	0
1998	1			0	0	0	0	0	—	—	0	0	0	0
1999	1			0	0	0	0	0	—	—	0	0	0	0
2000	1			0	0	0	0	0	—	—	0	0	0	0
2001	1			0	0	0	0	0	—	—	0	0	0	0
2002	1			0	0	0	0	0	—	—	0	0	0	0
2003	1			0	0	0	0	0	—	—	0	0	0	0
2004	1			0	0	0	0	0	—	—	0	0	0	0
2005	1			0	0	0	0	0	—	—	0	0	0	0
2006	0			—	—	—	—	—	—	—	0	0	0	0
2007	1	0	0	0	0	0	0	0	—	—	0	0	0	0
2008	2	0	0	0	0	0	0	0	—	—	0	0	0	0
2009	2	0	0	0	0	0	0	0	—	—	0	1	0	1
Mean	1	0	0	0	0	0	0	1	—	—	0	0	0	0

*Unit was pursuit only during 2006.

Black bear mortality for unit 24 – Mt. Dutton, Utah 2008–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
2008	2	1	0	0	0	0	1	50	0	7.0	1	0	0	2
2009	2	0	0	0	0	0	0	0	—	—	1	0	0	1
Mean	2	1	0	0	0	0	1	25	0	7.0	1	0	0	2

Black bear mortality for unit 25ab – Plateau, Fishlake/Thousand Lakes, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	3			0	0	0	0	0	—	—	0	0	0	0
1991	3			1	0	0	1	33	0	—	0	0	0	1
1992	3			1	0	0	1	33	0	—	0	0	0	1
1993	3			1	0	0	1	33	0	—	1	0	0	2
1994	3			0	0	0	0	0	—	—	2	1	0	3
1995	4			2	1	0	3	75	33	—	1	1	0	5
1996	4			1	2	0	3	75	67	—	0	0	0	3
1997	4			3	0	0	3	75	0	—	0	0	0	3
1998	4			1	0	0	1	25	0	—	0	0	0	1
1999	4			1	0	0	1	25	0	—	0	0	0	1
2000	4			0	0	0	0	0	—	—	0	0	0	0
2001	4			0	0	0	0	0	—	—	1	1	0	2
2002	4			0	1	0	1	25	100	2.0	0	0	0	1
2003	4			3	0	0	3	75	0	5.3	1	0	0	4
2004	6			0	2	0	2	33	100	11.5	0	0	0	2
2005	6			2	0	0	2	33	0	7.0	1	0	0	3
2006	6	0	0	0	0	0	0	0	—	7.0	0	0	0	0
2007	6	1	0	0	0	0	1	17	0	6.0	0	0	0	1
2008	6	1	0	0	0	0	1	17	0	—	0	0	0	1
2009	6	2	0	0	0	0	2	33	0	5.5	0	0	0	2
Mean	4	1	0	1	0	0	1	30	23	6.3	0	0	0	2

Black bear mortality for unit 25c – Plateau, Boulder, Utah 1990–2003.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
1990	3	—	—	0	0	0	0	0	—	—	1	0	0	1
1991	3	—	—	0	1	0	1	33	100	—	0	0	0	1
1992	3	—	—	1	0	0	1	33	0	—	0	0	0	1
1993	4	—	—	2	0	0	2	50	0	—	0	2	0	4
1994	5	—	—	0	1	0	1	20	100	—	2	2	0	5
1995	6	—	—	3	2	0	5	83	40	—	1	0	0	6
1996	8	—	—	2	2	0	4	50	50	—	3	0	0	7
1997	8	—	—	2	1	0	3	38	33	—	0	0	0	3
1998	8	—	—	1	1	0	2	25	50	—	2	0	0	4
1999	8	—	—	2	2	0	4	50	50	—	1	0	0	5
2000	8	—	—	3	1	0	4	50	25	—	0	0	0	4
2001	8	—	—	1	2	0	3	38	67	7.6	1	0	1	5
2002	8	—	—	1	2	0	3	38	67	3.0	1	0	0	4
2003	8	—	—	3	0	0	3	38	0	5.0	1	3	0	7
Mean	6	—	—	2	1	0	3	42	41	5.2	1	1	0	4

Black bear mortality for unit 26 - Kaiparowits, Utah 2000–2003.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
2000	1	—	—	1	0	0	1	100	0	4.0	0	0	0	1
2001	1	—	—	0	0	0	0	0	—	—	0	0	0	0
2002	1	—	—	0	0	0	0	0	—	—	3	0	0	3
2003	1	—	—	0	1	0	1	100	100	13.0	0	0	0	1
Mean	1	—	—	0	0	0	1	50	50	8.5	0	0	0	1

Black bear mortality for units 25c/26 – Plateau, Boulder/Kaiparowits, Utah 2004–2009.

Year	Sport harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
		Male	Female	Male	Female									
2004	17			6	2	0	8	47	25	8.3	2	0	2	12
2005	17			2	2	0	4	24	50	4.8	1	1	1	7
2006	16	0	1	5	0	0	6	38	17	6.2	0	4	1	11
2007	22	7	1	3	0	0	11	50	9	7.4	6	0	0	17
2008	25	2	2	4	2	0	10	40	40	3.0	0	0	0	10
2009	25	6	0	5	2	0	13	52	15	6.1	4	0	0	17
Mean	20	4	1	4	1	0	9	43	23	6.8	2	1	1	12

Black bear mortality for unit 27 - Paunsaugunt, Utah 2003–2009.

Year	Sport harvest								Depredation / other mortality			Total harvest + mortality		
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male		Female	Unknown
Male	Female	Male	Female	Male	Female						Male	Female	Unknown	
2003	1			0	0	0	0	0	—	—	0	0	0	0
2004	1			0	0	0	0	0	—	—	0	1	0	1
2005	2			1	0	0	1	50	0	3.0	0	0	0	1
2006	2	0	1	0	0	0	1	50	100	3.0	0	0	0	1
2007	2	0	0	0	0	0	0	0	—	—	0	0	0	0
2008	2	0	0	0	0	0	0	0	—	—	0	0	0	0
2009	2	1	0	0	0	0	1	50	0	8.0	1	0	0	2
Mean	2	0	0	0	0	0	0	25	33	5.5	0	0	0	1

Black bear mortality for units 28/29 – Panguitch Lake/Zion, Utah 1990–2009.

Year	Sport harvest							Depredation / other mortality			Total harvest + mortality			
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age		Male	Female	Unknown
		Male	Female	Male	Female									
1990	3			0	0	0	0	0	—	—	1	0	0	1
1991	3			1	0	0	1	33	0	—	2	0	0	3
1992	3			0	0	0	0	0	—	—	2	0	0	2
1993	3			0	0	0	0	0	—	—	0	0	0	0
1994	4			1	0	0	1	25	0	—	1	0	0	2
1995	8			1	0	0	1	13	0	—	1	1	0	3
1996	8			0	0	0	0	0	—	—	4	0	0	4
1997	8			0	0	0	0	0	—	—	0	0	0	0
1998	8			0	0	0	0	0	—	—	1	0	0	1
1999	8			0	1	0	1	13	100	5.7	2	0	0	3
2000	6			0	0	0	0	0	—	—	0	0	0	0
2001	6			0	1	0	1	17	100	19.0	0	1	0	2
2002	6			0	1	0	1	17	100	11.0	5	0	0	6
2003	11			1	1	0	2	18	50	5.3	2	0	0	4
2004	12			2	0	0	2	17	0	8.0	3	0	0	5
2005	12			0	0	0	0	0	—	—	2	1	0	3
2006	11	0	1	0	0	0	1	9	100	4.0	0	0	0	1
2007	10	0	1	1	0	0	2	20	50	1.0	0	0	0	2
2008	11	2	0	2	0	1	5	40	45	8.0	0	0	2	7
2009	11	2	0	1	0	0	3	27	0	3.0	0	0	0	3
Mean	8	1	1	1	0	0	1	14	29	6.6	1	0	0	3