UTAH BLACK BEAR ANNUAL REPORT 2015

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Annual Performance Report for Federal Aid Project W-65-M, segments 63 and 64

State of Utah
Department of Natural Resources
DIVISION OF WILDLIFE RESOURCES

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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 63 and 64, grant agreement periods July 1, 2014 through June 30, 2015 and July 1, 2015 through June 30, 2016, respectively. This Federal Aid project covers the 2015 hunting seasons. This report presents black bear statewide trends since the 1960s, as well as population trend indicators.

In addition to its traditional limited-entry hunts, beginning in 2012 Utah offered two new types of bear hunts: spot-and-stalk only hunts, where hunters could not use dogs or bait; and harvest-objective hunts, where an unlimited number of hunters could hunt in the harvest-objective unit until the quota was met or the season ended. Bait was not allowed in bear harvest-objective units, and dogs were also not allowed during the fall harvest-objective season (Nine Mile unit). Black bear pursuit was open in all 22 bear units. Three units (Book Cliffs, La Sal, and San Juan) were closed to general black bear pursuit during the summer and only pursuers who applied for and obtained a restricted pursuit permit were allowed to pursue in one of those units. A list of bear units, season dates, rules and regulations for the 2015 black bear hunting and pursuit seasons can be found in the 2015 Utah Black Bear Guidebook.

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 samples were collected, and a permanent tag affixed. Bear harvest information was also collected. Teeth were sectioned and cementum annuli counted by an independent lab, to estimate age of harvested bear. Bears aged to be 5-yrs or older were considered adults for the purposes of calculating percent adult males in the harvest. Bear pursuit information was obtained using a telephone survey of a statistically-valid random sample of bear pursuit permit holders. Data were not collected for the fall pursuit season.

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. Other mortality includes roadkill, poaching, found dead, etc.

Changes from Previous Reports

This annual report presents the most complete and accurate summary of black bear harvest data available at the time of publication. Occasionally, we will adjust previous years' harvest numbers in a subsequent report as more data were made available after publication. This is typically the case with counts of Wildlife Services (depredation) mortality, and only rarely will counts of hunter harvest need adjustment.

RESULTS

In 2015, 610 limited-entry black bear permits and 463 harvest-objective permits were sold. Hunters harvested 329 bears, 169 of which were taken in the spring, 71 in summer, and 89 in the fall. 54% of permits/quota were filled. Four harvest-objective units, (Nine Mile; North Slope, Three Corners/West Daggett; Wasatch Mtns, Avintaquin/Currant Creek; and Wasatch Mtns, West), filled their spring harvest objectives. The percent of females in the harvest increased from 30% in 2014 to 36% in 2015. 47 bears were killed as a result of depredation or other mortality.

Utah issued 528 black bear pursuit permits in 2015. Of these, 96 permits were sold through a drawing system and were valid for one restricted summer pursuit unit/season, in addition to all other unrestricted units and seasons. A total of 374 pursuers went afield during the spring pursuit season, while 166 pursuers pursued in unrestricted units during the summer pursuit season, and 69 pursuers pursued in restricted units during the restricted summer pursuit seasons. During both the spring and summer pursuit seasons, pursuers treed 0.4 bears per day.

More detailed information describing the 2015 black bear harvest and black bear harvest trends can be found in the following tables and figures.

Historical statewide black bear harvest statistics, Utah 1967–2000.

Year	Permits sold	Hunters afield	Harvest	% permits filled	Bears / hunter	% female	Depredation / other mortality	Total harvest + mortality	Pursuit permits*
1967	—	—	15	—	—	—	12	27	—
1968	—	—	12	—	—	—	9	21	—
1969	43	31	25	58	0.8	—	27	52	—
1970	155	119	9	6	0.1	—	18	27	—
1971	59	48	17	29	0.4	—	16	33	—
1972	96	77	19	20	0.3	—	7	26	—
1973	125	114	25	20	0.2	—	0	25	—
1974	134	117	29	22	0.3	—	9	38	—
1975	161	144	22	14	0.2	41	2	24	161
1976	107	96	10	9	0.1	42	7	17	48
1977	149	127	26	17	0.2	33	6	32	77
1978	222	185	40	18	0.2	33	10	50	114
1979	240	196	26	11	0.1	19	5	31	91
1980	217	177	26	12	0.2	28	6	32	95
1981	263	227	39	15	0.2	30	4	43	95
1982	229	188	38	17	0.2	39	6	44	93
1983	219	176	18	8	0.1	44	9	27	98
1984	217	184	26	12	0.1	31	6	32	33
1985	269	230	29	11	0.1	27	10	39	86
1986	332	302	72	22	0.2	45	6	78	90
1987	326	262	44	13	0.2	35	25	69	156
1988	491	394	69	14	0.2	35	28	97	173
1989	687	556	97	14	0.2	30	10	107	187
1990	142	119	22	15	0.2	18	16	38	355
1991	142	119	35	25	0.3	23	15	50	364
1992	142	124	32	23	0.3	19	25	57	524
1993	162	136	35	22	0.3	51	12	47	570
1994	168	153	42	25	0.3	40	20	62	552
1995	175	156	53	30	0.3	34	34	87	627
1996	181	174	68	38	0.4	43	35	103	630
1997	192	176	50	26	0.3	44	31	81	638
1998	202	181	46	23	0.3	42	42	88	635
1999	220	199	57	26	0.3	30	35	92	264
2000	214	194	75	35	0.4	35	72	147	285

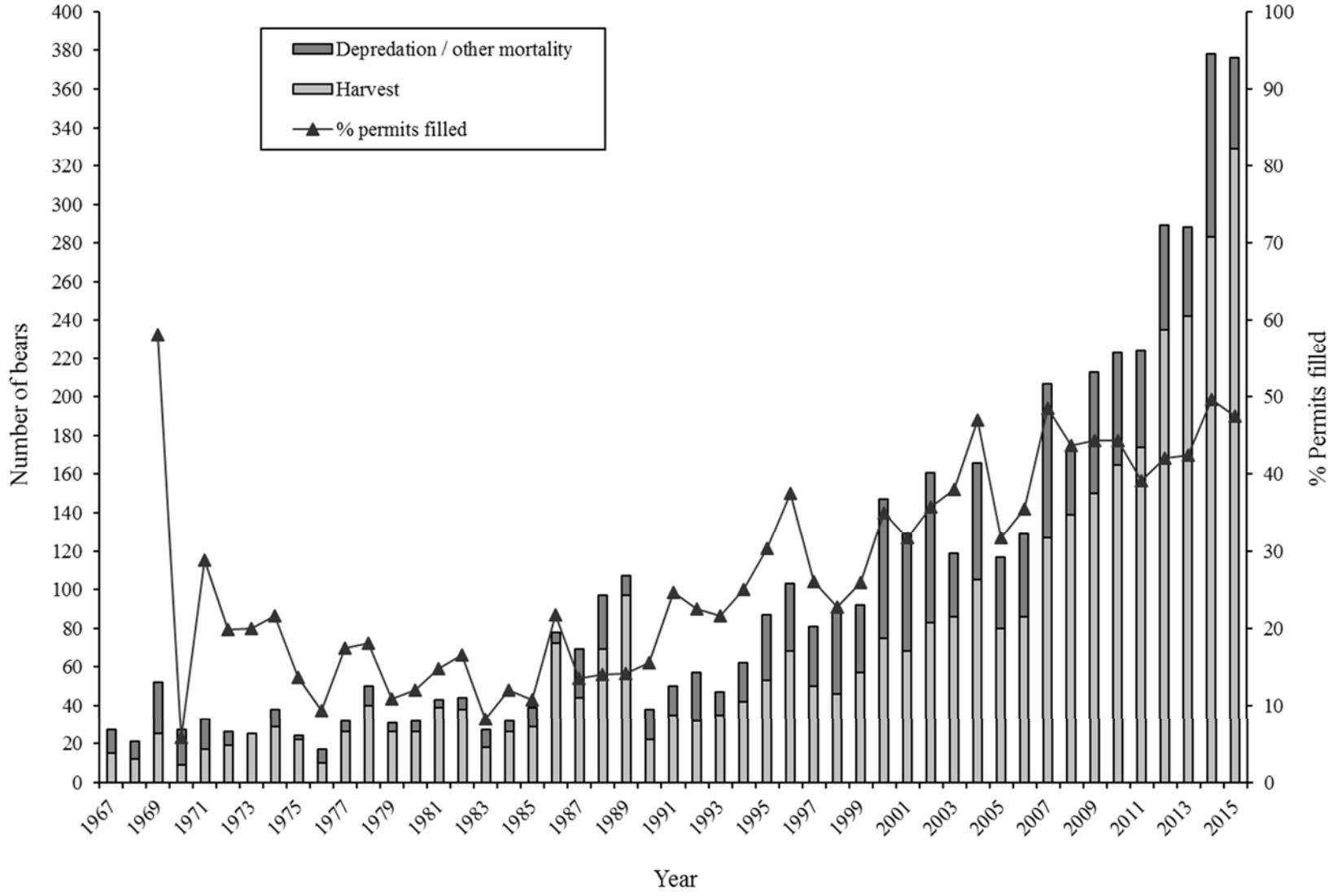
*Beginning in 1999, a bear-only pursuit permit was issued. Prior to 1999, combined cougar/bear pursuit permits were issued.

Statewide black bear harvest and mortality statistics, Utah 2001–2015.

	Harvest									Depredation / other mortality			Total harvest + mortality
Year	Permits issued	Male	Female	Unknown	Total	% permits filled	% female	% adult male	Mean age	Male	Female	Unknown	
2001	214	41	25	2	68	32	37	—	6.9	39	21	1	129
2002	232	53	27	3	83	36	33	—	6.8	43	27	8	161
2003	226	59	27	0	86	38	31	—	7.4	22	8	3	119
2004	240	83	22	0	105	44	21	—	6.6	34	23	4	166
2005	252	61	19	0	80	32	24	—	6.6	16	17	4	117
2006	242	58	28	0	86	36	33	—	6.6	20	16	7	129
2007	262	91	36	0	127	48	28	—	5.8	48	24	8	207
2008	318	96	41	2	139	44	29	—	6.3	18	8	7	172
2009	338	104	46	0	150	44	31	—	6.4	39	22	2	213
2010	372	110	55	0	165	44	33	—	6.0	36	20	2	223
2011	444	132	42	0	174	39	24	41	5.5	30	20	0	224
2012	558*	151	84	0	235	42	36	32	5.8	33	19	2	289
2013	570*	165	77	0	242	42	32	34	6.0	30	16	0	288
2014	570*	198	85	0	283	50	30	32	5.3	57	36	2	378
2015	692*	211	118	0	329	48	36	29	5.3	29	16	2	376
Mean	369	108	49	0	157	41	30	34	6.2	33	20	3	213

*Includes harvest-objective quotas but not harvest-objective permits sold.

Statewide black bear harvest and mortality, Utah 1967–2015.



Statewide black bear harvest by unit / subunit, Utah 2015.

Unit / subunit	Permits / quota	Harvest			% permits / quota filled	% female	% adult male
		Male	Female	Total			
Beaver	22	8	5	13	59	38	31
Book Cliffs, Bitter Creek/South	56	14	11	25	45	44	23
Book Cliffs, Little Creek Roadless	15	4	1	5	33	20	60
Cache/ East Canyon /Morgan-Rich/Ogden	9	4	0	4	44	0	25
Central Mtns, Manti-North	32	10	7	17	53	41	38
Central Mtns, Manti-South/San Rafael, South	20	11	5	16	80	31	31
Central Mtns, Nebo	21	4	6	10	48	60	13
Chalk Creek/Kamas/North Slope, Summit	17	4	3	7	41	43	29
Fillmore, Pahvant	2	1	0	1	50	0	0
La Sal	104	27	10	37	36	27	33
Monroe	1	1	0	1	100	0	0
Mt Dutton	5	1	0	1	20	0	0
Nine Mile	49*	20	11	31	63	35	23
North Slope, Three Corners/West Daggett	12*	3	3	6	50	50	33
Panguitch Lake/Zion	17	6	1	7	41	14	29
Paunsaugunt	7	2	1	3	43	33	33
Plateau, Boulder/Kaiparowits	41	10	4	14	34	29	42
Plateau, Fishlake/Thousand Lakes	8	2	1	3	38	33	0
San Juan	104	29	2	31	30	6	63
South Slope, Bonanza/Diamond Mtn/Vernal	31	7	8	15	48	53	36
South Slope, Yellowstone	18*	5	4	9	50	44	38
Wasatch Mtns, Avintaquin/Currant Creek	24*	7	7	14	58	50	15
Wasatch Mtns, West	75*	31	28	59	79	47	12
Statewide total	692**	211	118	329	48	36	29

*Includes harvest-objective season quotas.
**Total permits include 1 statewide conservation permit and 1 statewide sportsman permit.

Black bear spring limited-entry harvest, (any legal weapon, no bait allowed), by hunt, Utah 2015.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled
			Male	Female	Total	
7000	Beaver	8	2	2	4	50
7001	Book Cliffs, Bitter Creek/South	36	9	8	17	47
7002	Cache/East Canyon/Morgan-South Rich/Ogden	3	1	0	1	33
7003	Central Mtns, Manti-North	17	4	2	6	35
7004	Central Mtns, Manti-South/San Rafael, North	5	4	1	5	100
7005	Central Mtns, Nebo	8	1	2	3	38
7006	Chalk Creek/Kamas/North Slope, Summit	5	1	0	1	20
7007	Fillmore, Pahvant	1	1	0	1	100
7008	La Sal	36	19	6	25	69
7009	Mt Dutton	2	0	0	0	0
7010	Panguitch Lake/Zion	6	1	0	1	17
7011	Paunsaugunt	2	1	1	2	100
7012	Plateau, Boulder/Kaiparowits	16	3	2	5	31
7013	Plateau, Fishlake/Thousand Lakes	2	1	0	1	50
7014	San Juan	36	18	1	19	53
7015	South Slope, Bonanza/Diamond Mtn/Vernal	16	3	2	5	31

Black bear summer limited-entry harvest, (any legal weapon, no dogs allowed), by hunt, Utah 2015.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled
			Male	Female	Total	
7100	Beaver	7	3	2	5	71
7101	Book Cliffs, Bitter Creek/South	4	2	1	3	75
7102	Book Cliffs, Little Creek Roadless	2	1	0	1	50
7103	Cache/East Canyon/Morgan-South Rich/Ogden	3	1	0	1	33
7104	Central Mtns, Manti-North	5	2	2	4	80
7105	Central Mtns, Manti-South/San Rafael, North	3	2	1	3	100
7106	Central Mtns, Nebo	6	2	2	4	67
7107	Chalk Creek/Kamas/North Slope, Summit	5	2	2	4	80
7108	La Sal	4	2	1	3	75
7109	Mt Dutton	2	1	0	1	50
7110	Nine Mile	5	2	0	2	40
7111	North Slope, Three Corners/West Daggett	3	1	0	1	33
7112	Panguitch Lake/Zion	3	2	1	3	100
7113	Paunsaugunt	2	1	0	1	50
7114	Plateau, Boulder/Kaiparowits	8	2	1	3	38
7115	Plateau, Fishlake/Thousand Lakes	2	1	0	1	50
7116	San Juan	4	3	1	4	100
7117	South Slope, Bonanza/Diamond Mtn/Vernal	5	3	2	5	100
7118	South Slope, Yellowstone	5	2	0	2	40
7119	Wasatch Mtns, Avintaquin/Currant Creek	5	0	0	0	0
7120	Wasatch Mtns, West	20	7	5	12	60

Black bear fall limited-entry harvest, (any legal weapon), by hunt, Utah 2015.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled
			Male	Female	Total	
7200	Beaver	6	2	1	3	50
7201	Book Cliffs, Bitter Creek/South	6	0	0	0	0
7202	Cache/East Canyon/Morgan-South Rich/Ogden	2	1	0	1	50
7203	Central Mtns, Manti-North	6	2	2	4	67
7204	Central Mtns, Manti-South/San Rafael, North	8	4	1	5	63
7205	Central Mtns, Nebo	4	0	2	2	50
7206	Chalk Creek/Kamas/North Slope, Summit	4	1	1	2	50
7207	Fillmore, Pahvant	1	0	0	0	0
7208	La Sal	5	0	1	1	20
7209	Monroe	1	1	0	1	100
7210	Mt Dutton	1	0	0	0	0
7211	Nine Mile	17	4	3	7	41
7212	North Slope, Three Corners/West Daggett	3	0	1	1	33
7213	Panguitch Lake/Zion	6	2	0	2	33
7214	Paunsaugunt	3	0	0	0	0
7215	Plateau, Boulder/Kaiparowits	11	2	0	2	18
7216	Plateau, Fishlake/Thousand Lakes	2	0	1	1	50
7217	San Juan	5	2	0	2	40
7218	South Slope, Bonanza/Diamond Mtn/Vernal	6	1	3	4	67
7219	South Slope, Yellowstone	5	1	2	3	60
7220	Wasatch Mtns, Avintaquin/Currant Creek	7	2	1	3	43
7221	Wasatch Mtns, West	15	3	6	9	60

Black bear early fall limited-entry harvest, (archery only, no dogs allowed), by hunt, Utah 2015.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled
			Male	Female	Total	
7222	Book Cliffs, Bitter Creek/South	5	0	2	2	40
7223	Book Cliffs, Little Creek Roadless	2	0	0	0	0

Black bear spot & stalk limited-entry harvest, (any legal weapon), by hunt, Utah 2015.

Hunt number	Unit / subunit	Season	Permits	Harvest			% permits filled
				Male	Female	Total	
7224	Book Cliffs, Little Creek Roadless	Spring	3	2	0	2	67
7225	Book Cliffs, Little Creek Roadless	Fall	7	0	1	1	14
7226	La Sal	Fall	50	3	2	5	10
7227	San Juan	Fall	50	1	0	1	2

Black bear harvest-objective harvest, by hunt, Utah 2015.

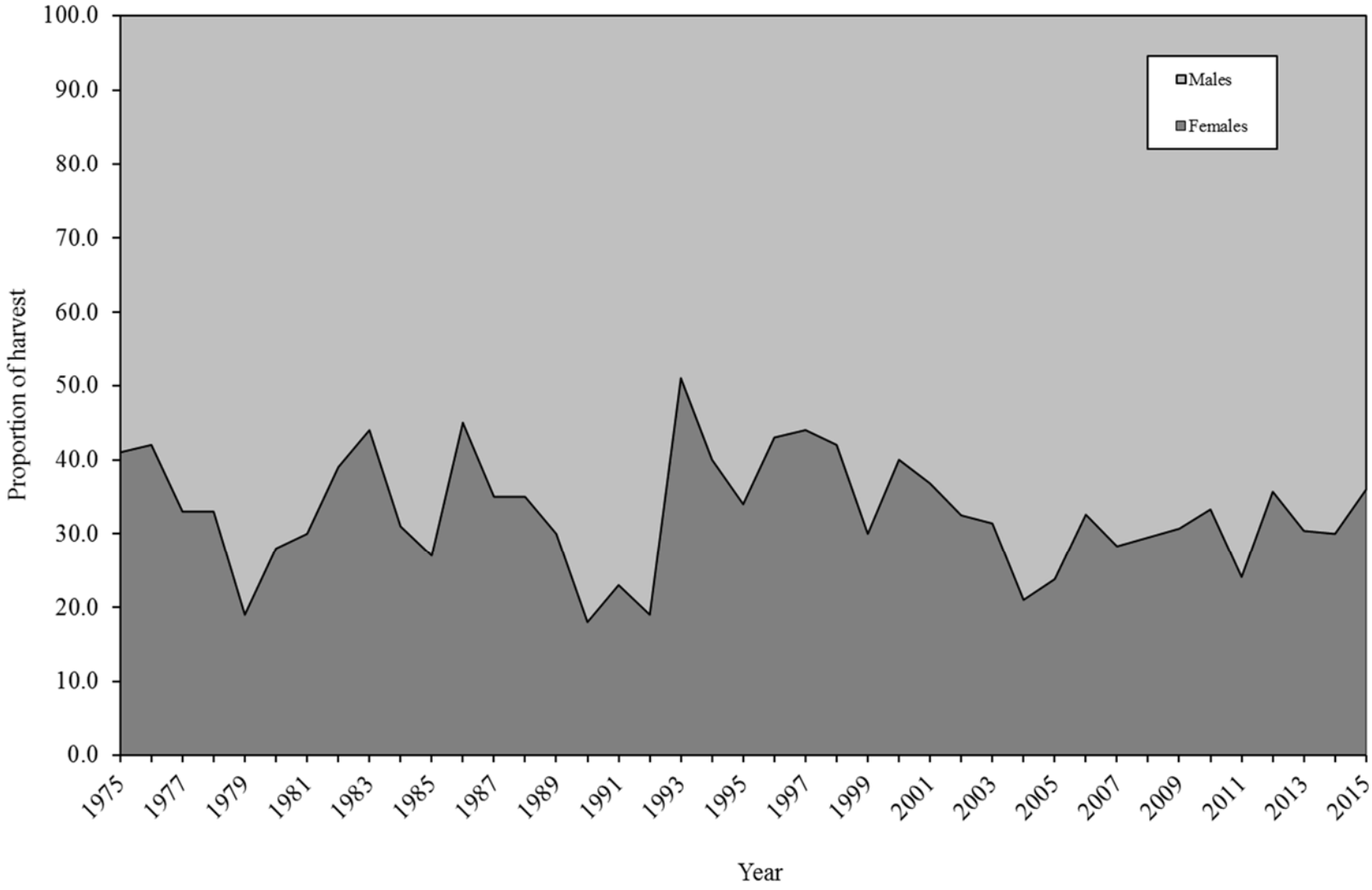
Unit / subunit	Season	Method	Quota	Harvest			% quota filled
				Male	Female	Total	
Nine Mile	Spring	No bait allowed	15	11	4	15	100
Nine Mile	Fall	No dogs and no bait allowed	10	3	4	7	70
North Slope, Three Corners/West Daggett	Spring	No bait allowed	4	2	2	4	100
South Slope, Yellowstone	Spring	No bait allowed	6	2	0	2	33
Wasatch Mtns, Avintaquin/Currant Creek	Spring	No bait allowed	10	5	5	10	50
Wasatch Mtns, West	Spring	No bait allowed	30	17	14	31	103

Black bear multi-season limited-entry harvest, by hunt, Utah 2015.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled
			Male	Female	Total	
7904	Beaver	1*	1	0	1	100
7300	Book Cliffs, Bitter Creek/South	5	3	0	3	60
7301	Book Cliffs, Little Creek Roadless	1	1	0	1	100
7302	Cache/East Canyon/Morgan-South Rich/Ogden	1	1	0	1	100
7303	Central Mtns, Manti-North	4	2	1	3	75
7304	Central Mtns, Manti-South/San Rafael, North	4	1	2	3	75
7305	Central Mtns, Nebo	3	1	0	1	33
7306	Chalk Creek/Kamas/North Slope, Summit	3	0	0	0	0
7307	La Sal	9	3	0	3	33
7308	North Slope, Three Corners/West Daggett	2	0	0	0	0
7309	Panguitch Lake/Zion	2	1	0	1	50
7310	Plateau, Boulder/Kaiparowits	6	3	1	4**	50
7311	Plateau, Fishlake/Thousand Lakes	2	0	0	0	0
7312	San Juan	9	5	0	5	56
7313	South Slope, Bonanza/Diamond Mtn/Vernal	4	0	1	1	25
7314	South Slope, Yellowstone	2	0	2	2	100
7315	Wasatch Mtns, Avintaquin/Currant Creek	2	0	1	1	50
7316	Wasatch Mtns, West	10	4	3	7	70

*Conservation permit
**Includes one male harvest taken with statewide sportsman permit, not included in % permits filled.

Sex ratio of black bear harvest, Utah 1975–2015.



Statewide black bear pursuit statistics, Utah 2002–2015.

		Spring				General summer / fall			
Year	Permits sold	n	Pursuers	Bears / pursuit-day	Bears / pursuer	n	Pursuers	Bears / pursuit-day	Bears / pursuer
2002	359	88	318	0.5	7.5	—	—	—	—
2003	378	91	291	0.5	8.7	65	228	0.5	6.2
2004	373	73	309	0.4	5.0	54	212	0.5	5.9
2005	414	103	256	0.4	5.0	220	436	0.3	2.7
2006	353	78	328	0.3	3.7	—	—	—	—
2007	363	120	329	0.5	6.5	57	157	0.6	4.3
2008	391	96	313	0.6	7.8	73	238	0.9	5.4
2009	424	90	359	0.4	5.1	72	287	0.5	4.9
2010	460	172	326	0.4	4.9	79	164	0.3	2.6
2011	504	102	308	0.4	5.3	57	172	0.5	3.0
2012	456	100	285	0.4	5.6	49	140	0.3	2.4
2013	468	108	318	0.5	5.6	55	162	0.3	2.2
2014	498	99	304	0.4	5.2	57	175	0.5	3.3
2015	528	165	432	0.4	5.6	52	166	0.4	2.5
Mean	426	106	316	0.4	5.8	74	211	0.5	3.8

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.
Beginning in 2010, general summer / fall pursuit does not include pursuit activity from restricted summer pursuit units.

Black bear pursuit statistics, restricted summer pursuit units, 2010-2015.

Year	Permits sold	n	Pursuers	Bears / pursuit-day	Bears / pursuer
2010	100	70	63	0.8	4.9
2011	122	57	70	0.6	4.3
2012	103	51	54	0.6	3.8
2013	98	51	65	0.8	4.3
2014	102	54	55	0.7	6.6
2015	96	45	69	0.6	3.5
Mean	104	55	63	0.7	4.6

Statewide spring black bear pursuit statistics by unit / subunit, Utah 2015.

Unit / subunit	n	Pursuers afield	Pursuit-days afield	Number of bears treed					Bears treed / pursuit-day	Bears treed / pursuer
				Males	Females	Cubs	Unknown	Total		
Beaver	8	26	182	22	32	0	0	54	0.3	2.1
Book Cliffs, Bitter Creek/South	18	58	960	134	208	10	16	368	0.4	6.3
Book Cliffs, Little Creek Roadless	2	6	64	3	0	0	10	13	0.2	2.2
Cache/East Canyon/Morgan-South Rich/Ogden	3	10	54	3	0	0	3	6	0.1	0.6
Central Mtns, Manti-North	6	19	86	10	10	6	3	29	0.3	1.5
Central Mtns, Manti-South/San Rafael, North	16	51	506	51	74	6	3	134	0.3	2.6
Central Mtns, Nebo	5	16	106	3	13	0	0	16	0.2	1.0
Chalk Creek/Kamas/North Slope, Summit	1	3	6	0	0	0	0	0	0.0	0.0
Fillmore, Pahvant	3	10	99	16	10	6	3	35	0.4	3.5
La Sal	30	96	1110	224	262	128	38	652	0.6	6.8
Monroe	0	0	—	—	—	—	—	—	—	—
Mt Dutton	0	0	—	—	—	—	—	—	—	—
Nine Mile	8	26	189	50	38	16	0	104	0.6	4.0
North Slope, Three Corners/ West Daggett	0	0	—	—	—	—	—	—	—	—
Panguitch Lake/Zion	2	6	93	10	0	0	0	10	0.1	1.7
Paunsaugunt	0	0	—	—	—	—	—	—	—	—
Plateau, Boulder/Kaiparowits	9	29	179	32	38	6	0	76	0.4	2.6
Plateau, Fishlake/Thousand Lakes	3	10	102	13	10	0	0	23	0.2	2.3
San Juan	22	70	784	186	125	38	19	368	0.5	5.3
South Slope, Bonanza/Diamond Mtn/Vernal	9	29	198	19	38	0	13	70	0.4	2.4
South Slope, Yellowstone	6	19	134	10	35	19	0	64	0.5	3.4
Wasatch Mtns, Avintaquin/Currant Creek	6	19	166	6	16	16	3	41	0.2	2.2
Wasatch Mtns, West	8	26	168	29	45	3	0	77	0.5	3.0
Unknown	0	0	—	—	—	—	—	—	—	—
Statewide total*	117	374	5004	799	922	254	111	2086	0.4	5.6

*Totals for sample size and pursuers afield are not the sum of the columns because pursuers could pursue on multiple units.
165 permit holders surveyed; 528 permits sold; projection factor = 3.2

Statewide general summer black bear pursuit statistics by unit / subunit, Utah 2015.

Unit / subunit	n	Pursuers afield	Pursuit-days afield	Number of bears treed					Bears treed / pursuit-day	Bears treed / pursuer
				Males	Females	Cubs	Unknown	Total		
Beaver	8	26	109	6	29	0	0	35	0.3	1.3
Cache/East Canyon/Morgan-South Rich/Ogden	2	6	16	0	0	0	0	0	0.0	0.0
Central Mtns, Manti-North	6	19	80	10	6	3	10	29	0.4	1.5
Central Mtns, Manti-South/San Rafael, North	14	45	410	54	96	10	10	170	0.4	3.8
Central Mtns, Nebo	3	10	16	0	0	0	0	0	0.0	0.0
Chalk Creek/Kamas/North Slope, Summit	0	0	—	—	—	—	—	—	—	—
Fillmore, Pahvant	3	10	32	0	6	0	0	6	0.2	0.6
Monroe	0	0	—	—	—	—	—	—	—	—
Mt Dutton	0	0	—	—	—	—	—	—	—	—
Nine Mile	2	6	38	3	10	0	0	13	0.3	2.2
North Slope, Three Corners/ West Daggett	2	6	67	19	45	10	0	74	1.1	12.3
Panguitch Lake/Zion	0	0	—	—	—	—	—	—	—	—
Paunsaugunt	2	6	22	10	10	0	0	20	0.9	3.3
Plateau, Boulder/Kaiparowits	1	3	3	0	0	0	0	0	0.0	0.0
Plateau, Fishlake/Thousand Lakes	3	10	48	6	0	0	0	6	0.1	0.6
South Slope, Bonanza/Diamond Mtn/Vernal	5	16	163	6	29	3	10	48	0.3	3.0
South Slope, Yellowstone	3	10	26	3	6	0	0	9	0.3	0.9
Wasatch Mtns, Avintaquin/Currant Creek	2	6	19	0	0	3	0	3	0.2	0.5
Wasatch Mtns, West	4	13	70	16	16	3	0	35	0.5	2.7
Unknown	1	3	6	0	0	0	0	0	0.0	0.0
Statewide total*	52	166	1016	127	224	32	30	413	0.4	2.5

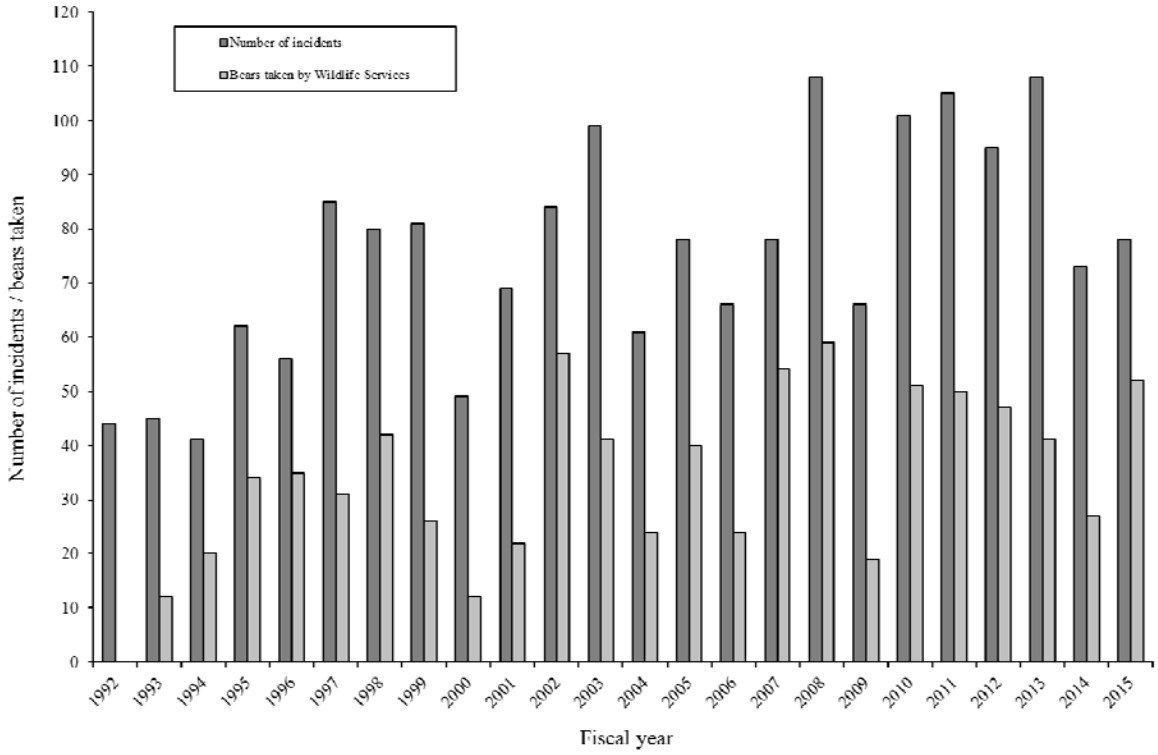
*Totals for sample size and pursuers afield are not the sum of the columns because pursuers could pursue on multiple units.
165 permit holders surveyed; 528 permits sold; projection factor = 3.2
37.5% of permit holders indicated that they intended to pursue fall season

Summer black bear pursuit statistics in restricted units, by unit and season, Utah 2015.

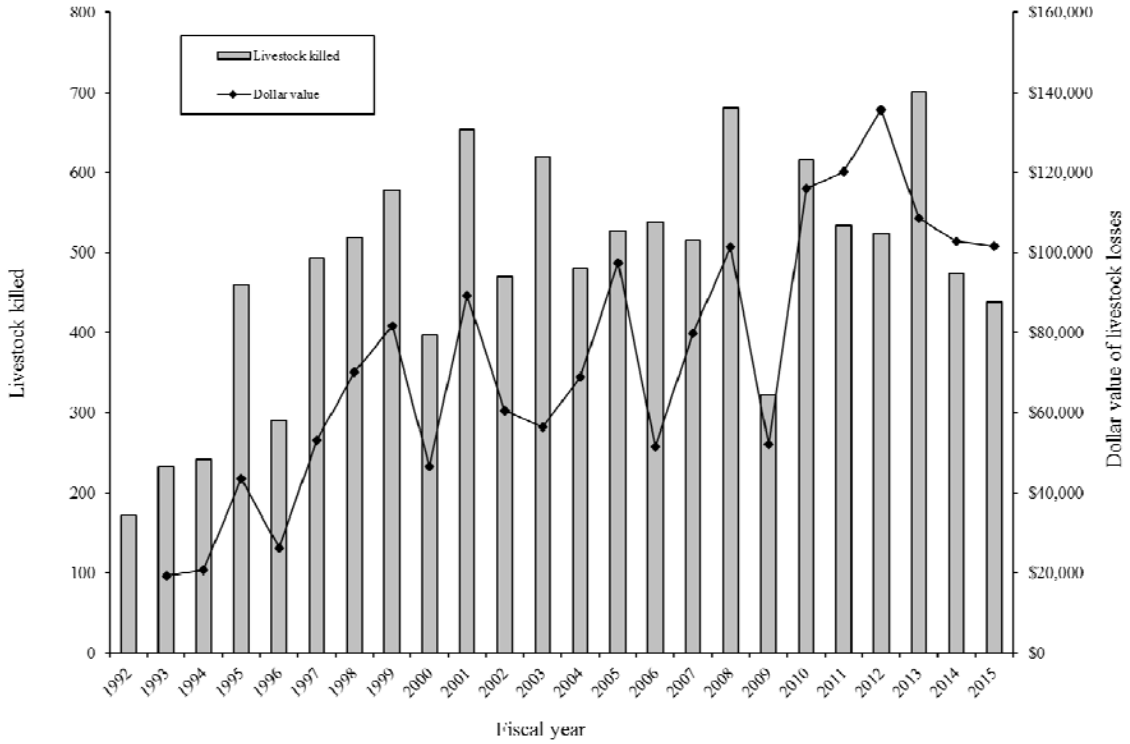
Unit and season	Permits	n	Pursuers afield	Pursuit- days afield	Number of bears treed					Bears treed / pursuit-day	Bears treed / pursuer
					Males	Females	Cubs	Unknown	Total		
Book Cliffs (early)	28	10	17	90	8	20	3	0	31	0.3	1.8
La Sal (early)	5	1	5	40	15	10	0	0	25	0.6	5.0
San Juan (early)	15	8	9	81	8	13	6	6	33	0.4	3.7
Book Cliffs (late)	28	11	23	112	18	13	5	0	36	0.3	1.6
La Sal (late)	5	5	4	28	7	15	6	0	28	1.0	7.0
San Juan (late)	15	10	11	62	9	29	14	6	58	0.9	5.3

45 permit holders surveyed; 96 permits sold

Livestock depredation incidents and black bears killed by Wildlife Services, Utah 1992–2015.



Livestock losses due to black bear depredation, Utah 1992–2015.



APPENDIX

HISTORICAL BLACK BEAR HARVEST BY HUNT UNIT

Black bear mortality for Beaver unit (22), Utah 1990–2015.

Year	Permits issued / quota	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	1	0	0	0	0	—	—	—	0	0	0	0
1991	1	0	0	0	0	—	—	—	0	0	0	0
1992	1	0	0	0	0	—	—	—	0	0	0	0
1993	1	0	0	0	0	—	—	—	0	0	0	0
1994	1	0	0	0	0	—	—	—	0	0	0	0
1995	1	1	0	1	100	—	0	—	0	0	0	1
1996	1	0	0	0	0	—	—	—	0	0	0	0
1997	1	0	0	0	0	—	—	—	0	0	0	0
1998	1	0	0	0	0	—	—	—	0	0	0	0
1999	1	0	0	0	0	—	—	—	0	0	0	0
2000	1	0	0	0	0	—	—	—	0	0	0	0
2001	1	1	0	1	100	—	0	5.0	0	0	0	1
2002	1	0	0	0	0	—	—	—	1	2	0	3
2003	1	0	0	0	0	—	—	—	0	0	0	0
2004	1	1	0	1	100	—	0	7.0	0	0	0	1
2005	1	0	1	1	100	—	100	13.0	0	0	0	1
2006	2	1	0	1	50	—	0	4.0	0	0	0	1
2007	2	0	0	0	0	—	—	—	1	1	0	2
2008	6	2	1	3	50	—	33	7.7	1	1	0	5
2009	10	6	1	7	70	86	14	9.4	1	0	0	8
2010	15	3	1	4	27	50	25	5.0	0	0	0	4
2011	15	2	1	3	20	67	33	7.0	1	1	0	5
2012	17	6	2	8	47	50	25	7.5	0	0	0	8
2013	17	4	5	9	53	22	56	9.2	1	0	0	10
2014	17	4	4	8	47	14	50	7.3	0	1	0	9
2015	22	8	5	13	59	31	38	5.6	0	0	0	13
Mean	5	2	1	2	43	41	35	7.3	0	0	0	3

*Included unit 21b, Fillmore, Pahvant, from 2008-2011.

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

	Harvest										Depredation / other mortality			Total harvest + mortality
		Spring		Fall										
Year	Permits issued	Male	Female	Male	Female	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	7.0	0	0	0	5
2007	15	7	1	1	0	0	9	60	11	10.3	0	0	0	9
2008	19	9	1	3	1	0	14	74	14	7.4	0	0	0	14
2009	23	10	0	0	0	0	10	43	0	8.8	0	0	0	10
Mean	21	8	1	5	3	0	9	42	29	7.6	1	0	0	11

Black bear mortality for Book Cliffs, Bitter Creek/South unit (10ab), Utah 2010–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2010	23	10	3	13	57	54	23	8.0	2	2	0	17
2011	28	13	1	14	50	62	7	4.8	0	0	0	14
2012	36	13	2	15	42	53	13	7.7	0	1	0	16
2013	36	18	4	22	61	62	18	6.4	0	2	0	24
2014	35	17	4	21	60	37	19	5.2	4	0	0	25
2015	56	14	11	25	45	23	44	5.4	1	1	0	27
Mean	34	14	4	17	51	50	21	6.6	1	1	0	19

Black bear mortality for Book Cliffs, Little Creek Roadless unit (10c), Utah 2010–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2010	7	3	0	3	43	100	0	9.7	0	0	0	3
2011	9	0	0	0	0	—	—	—	0	0	0	0
2012	10	3	0	3	30	100	0	10.7	0	0	0	3
2013	10	4	1	5	50	60	20	7.6	0	0	0	5
2014	10	3	0	3	30	67	0	5.7	1	0	0	4
2015	15	4	1	5	33	60	20	8.4	0	0	0	5
Mean	10	3	0	3	31	74	11	8.4	0	0	0	3

Black bear mortality for Cache/Ogden/Morgan-South Rich/East Canyon unit (2/3/4/5), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	1	0	0	0	0	—	—	—	0	0	0	0
1991	1	0	0	0	0	—	—	—	0	0	0	0
1992	1	0	0	0	0	—	—	—	0	0	0	0
1993	1	0	0	0	0	—	—	—	0	0	0	0
1994	1	0	0	0	0	—	—	—	0	0	0	0
1995	1	0	0	0	0	—	—	—	0	0	0	0
1996	1	0	0	0	0	—	—	—	0	0	0	0
1997	1	0	0	0	0	—	—	—	1	0	0	1
1998	1	0	0	0	0	—	—	—	0	0	1	1
1999	1	0	0	0	0	—	—	—	1	0	0	1
2000	1	1	0	1	100	—	0	3.0	0	0	0	1
2001	1	0	0	0	0	—	—	—	0	0	0	0
2002	1	0	0	0	0	—	—	—	0	0	0	0
2003	1	0	0	0	0	—	—	—	0	0	0	0
2004	1	0	0	0	0	—	—	—	0	0	0	0
2005	1	0	0	0	0	—	—	—	0	0	0	0
2006	2	0	0	0	0	—	—	—	0	0	1	1
2007	2	0	0	0	0	—	—	—	3	1	0	4
2008	4	0	0	0	0	—	—	—	1	0	0	1
2009	4	0	0	0	0	—	—	—	0	1	0	1
2010	4	1	0	1	25	100	0	6.0	1	1	0	3
2011	4	1	0	1	25	100	0	6.0	1	0	0	2
2012	4	2	0	2	50	0	0	2.0	1	0	0	3
2013	4	1	0	1	25	100	0	5.0	2	0	0	3
2014	4	0	0	0	0	—	—	—	1	2	0	3
2015	9	4	0	4	44	25	0	4.0	1	0	0	5
Mean	2	0	0	0	18	50	0	4.3	1	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 Central Mtns, Manti-North unit (16b), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	16	1	0	1	6	—	0	—	3	1	0	5
1991	16	2	0	2	13	—	0	—	2	2	0	6
1992	16	2	0	2	13	—	0	—	4	7	0	13
1993	20	0	2	2	10	—	100	—	1	1	0	4
1994	22	0	0	0	0	—	—	—	1	0	0	1
1995	22	2	0	2	9	—	0	—	1	3	0	6
1996	21	1	2	3	14	—	67	—	6	0	0	9
1997	21	2	2	4	19	—	50	—	5	3	0	12
1998	20	0	1	1	5	—	100	—	4	0	1	6
1999	25	3	3	6	24	—	50	—	2	5	0	13
2000	25	1	3	4	16	—	75	—	3	0	0	7
2001	22	1	5	6	27	—	83	3.5	5	0	0	11
2002	16	1	3	5*	31	—	60	10.0	1	1	2	8
2003	16	0	1	1	6	—	100	5.0	2	0	0	3
2004	16	4	1	5	31	—	20	3.0	6	1	0	12
2005	16	7	0	7	44	—	0	3.7	1	1	0	9
2006	16	3	2	5	31	—	40	2.4	1	0	0	6
2007	15	9	0	9	60	—	0	4.0	4	2	0	15
2008	17	5	2	7	41	—	29	4.0	0	0	0	7
2009	17	5	2	7	41	43	29	5.0	4	6	0	17
2010	19	3	2	5	26	20	40	5.8	9	5	0	19
2011	23	4	4	8	35	25	50	6.3	6	0	0	14
2012	28	7	7	14	50	8	50	3.6	5	3	0	22
2013	29	11	3	14	48	29	21	5.3	2	2	0	18
2014	29	11	4	15	52	20	27	4.4	6	3	0	24
2015	32	10	7	17	53	38	41	5.4	4	3	1	25
Mean	21	4	2	6	28	26	37	4.8	3	2	0	11

*Includes one harvest of unknown sex.

Black bear mortality for Central Mtns, Manti-South/San Rafael, North unit (16c/12a), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	17	2	0	2	12	—	0	—	0	0	0	2
1991	17	1	2	3	18	—	67	—	0	0	0	3
1992	17	4	1	5	29	—	20	—	1	1	0	7
1993	18	2	2	4	22	—	50	—	0	0	0	4
1994	20	0	0	0	0	—	—	—	0	0	0	0
1995	20	1	0	1	5	—	0	—	0	1	0	2
1996	20	2	2	4	20	—	50	—	1	0	0	5
1997	20	1	1	2	10	—	50	—	1	1	0	4
1998	16	3	0	3	19	—	0	—	1	3	0	7
1999	20	1	0	1	5	—	0	—	1	1	0	3
2000	20	2	1	3	15	—	33	—	10	2	0	15
2001	18	2	1	3	17	—	33	5.0	7	2	0	12
2002	12	1	0	1	8	—	0	3.0	2	2	0	5
2003	12	3	0	3	25	—	0	7.3	1	1	1	6
2004	12	3	1	4	33	—	25	3.0	5	3	0	12
2005	11	4	0	4	36	—	0	2.8	1	1	0	6
2006	11	4	2	6	55	—	33	4.0	3	1	0	10
2007	11	4	3	7	64	—	43	4.3	1	1	2	11
2008	12	1	2	3	25	—	67	5.3	1	0	0	4
2009	12	4	5	9	75	22	56	6.8	4	2	0	15
2010	13	7	3	10	77	30	30	4.1	1	3	2	16
2011	13	7	1	8	62	25	13	3.9	1	1	0	10
2012	16	9	3	12	75	42	25	6.3	2	2	0	16
2013	16	6	3	9	56	0	33	5.1	3	1	0	13
2014	16	10	2	12	75	20	17	3.6	2	4	1	19
2015	20	11	5	16	80	31	31	4.9	2	3	0	21
Mean	16	4	2	5	33	26	30	4.6	2	1	0	9

Black bear mortality for Central Mtns, Nebo unit (16a), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	3	0	0	0	0	—	—	—	2	0	0	2
1991	3	0	0	0	0	—	—	—	0	0	0	0
1992	3	0	0	0	0	—	—	—	0	0	0	0
1993	6	0	0	0	0	—	—	—	0	0	0	0
1994	6	0	0	0	0	—	—	—	1	0	0	1
1995	6	0	0	0	0	—	—	—	3	0	0	3
1996	6	0	0	0	0	—	—	—	0	0	0	0
1997	6	0	0	0	0	—	—	—	1	0	0	1
1998	6	1	0	1	17	—	0	—	0	0	0	1
1999	6	1	1	2	33	—	50	—	0	0	0	2
2000	6	2	1	3	50	—	33	—	1	0	0	4
2001	6	0	1	2*	33	—	50	2.5	0	0	0	2
2002	6	2	1	3	50	—	33	6.0	1	0	1	5
2003	8	4	0	4	50	—	0	3.0	1	0	0	5
2004	8	2	1	3	38	—	33	3.5	1	0	0	4
2005	8	5	0	5	63	—	0	1.8	0	1	0	6
2006	9	1	1	2	22	—	50	6.0	0	0	0	2
2007	8	4	2	6	75	—	33	4.0	1	2	0	9
2008	12	5	1	6	50	—	17	3.5	1	2	0	9
2009	12	3	0	3	25	67	0	7.3	3	2	1	9
2010	14	4	2	6	43	50	33	7.5	2	1	0	9
2011	17	3	7	10	59	0	70	5.6	3	1	0	14
2012	21	7	3	10	48	10	30	5.3	2	1	1	14
2013	21	11	3	14	67	21	21	3.6	2	2	0	18
2014	21	5	10	15	71	8	67	4.0	0	1	0	16
2015	21	4	6	10	48	13	60	5.1	6	1	0	17
Mean	10	2	2	4	42	17	38	4.6	1	1	0	6

*Includes one harvest of unknown sex.

Black bear mortality for Chalk Creek/Kamas/North Slope, Summit unit (6/7/8a), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	3	0	0	0	0	—	—	—	0	0	0	0
1991	3	0	0	0	0	—	—	—	1	0	0	1
1992	3	1	0	1	33	—	0	—	0	0	0	1
1993	3	0	0	0	0	—	—	—	3	0	0	3
1994	3	0	0	0	0	—	—	—	0	1	0	1
1995	3	0	0	0	0	—	—	—	4	0	0	4
1996	2	0	0	0	0	—	—	—	0	0	0	0
1997	2	1	0	1	50	—	0	—	3	0	0	4
1998	2	0	1	1	50	—	100	—	4	1	0	6
1999	2	0	0	0	0	—	—	—	3	1	0	4
2000	2	0	1	1	50	—	100	—	3	0	0	4
2001	2	0	0	0	0	—	—	—	6	7	0	13
2002	2	0	0	0	0	—	—	—	6	1	0	7
2003	2	1	0	1	50	—	0	—	2	1	0	4
2004	5	1	0	1	20	—	0	2.0	1	3	0	5
2005	5	2	1	3	60	—	33	2.5	2	1	2	8
2006	8	2	0	2	25	—	0	5.0	3	0	0	5
2007	8	3	0	3	38	—	0	2.3	8	3	0	14
2008	11	1	0	1	9	—	0	3.0	3	1	0	5
2009	11	1	2	3	27	33	67	6.7	3	1	0	7
2010	13	4	3	7	54	0	43	6.5	5	2	0	14
2011	13	3	2	5	38	0	40	3.4	1	2	0	8
2012	13	1	2	3	23	0	67	6.7	4	0	0	7
2013	13	2	1	3	23	0	33	6.7	2	2	0	7
2014	13	3	2	5	38	40	40	5.4	1	4	0	10
2015	17	4	3	7	41	29	43	5.6	2	0	0	9
Mean	6	1	1	2	29	15	38	4.6	3	1	0	6

Black bear mortality for Fillmore, Pahvant unit (21b), Utah 2012–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2012	2	0	0	0	0	—	—	—	0	0	0	0
2013	2	0	0	0	0	—	—	—	0	0	0	0
2014	2	0	0	0	0	—	—	—	0	0	0	0
2015	2	1	0	1	100	0	0	3.0	0	0	0	1
Mean	2	0	0	0	25	0	0	3.0	0	0	0	0

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

Year	Permits issued	Harvest									Depredation / other mortality			Total harvest + mortality
		Spring		Fall										
		Male	Female	Male	Female	Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
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 La Sal unit (13), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	10	1	0	1	10	—	0	—	2	0	0	3
1991	10	6	1	7	70	—	14	—	1	0	0	8
1992	10	1	1	2	20	—	50	—	1	0	0	3
1993	12	4	1	5	42	—	20	—	0	0	0	5
1994	12	8	0	8	67	—	0	—	0	0	0	8
1995	12	3	3	6	50	—	50	—	0	0	0	6
1996	16	6	5	11	69	—	45	—	2	0	0	13
1997	20	6	8	14	70	—	57	—	6	0	0	20
1998	20	6	5	11	55	—	45	—	0	0	1	12
1999	20	5	4	9	45	—	44	—	0	0	0	9
2000	19	4	6	10	53	—	60	—	2	0	0	12
2001	30	13	3	16	53	—	19	8.1	2	0	0	18
2002	30	17	4	21	70	—	19	6.9	3	0	0	24
2003	30	13	5	18	60	—	28	9.0	1	0	0	19
2004	30	12	3	15	50	—	20	7.9	0	1	0	16
2005	30	8	2	10	33	—	20	7.0	0	3	0	13
2006	30	6	6	12	40	—	50	8.3	0	0	0	12
2007	30	17	8	25	83	—	32	4.6	0	0	0	25
2008	32	14	8	22	69	—	36	6.0	2	1	0	25
2009	36	15	7	22	61	33	32	5.5	0	0	0	22
2010	40	13	8	21	53	42	38	7.4	2	0	0	23
2011	50	20	7	27	54	48	26	5.7	0	1	0	28
2012	48	19	15	34	71	32	32	6.0	1	0	0	35
2013	49	23	11	34	69	44	18	6.3	1	0	0	35
2014	49	27	11	38	78	38	26	5.1	6	2	0	46
2015	104	27	10	37	36	33	27	5.3	2	2	0	41
Mean	30	11	5	17	56	39	33	6.6	1	0	0	19

Black bear mortality for Monroe unit (23), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	1	0	0	0	0	—	—	—	0	0	0	0
1991	1	0	0	0	0	—	—	—	0	0	0	0
1992	1	0	0	0	0	—	—	—	0	0	0	0
1993	1	0	0	0	0	—	—	—	1	0	0	1
1994	1	0	0	0	0	—	—	—	0	0	0	0
1995	1	0	0	0	0	—	—	—	0	0	0	0
1996	1	0	0	0	0	—	—	—	0	0	0	0
1997	1	0	0	0	0	—	—	—	0	0	0	0
1998	1	0	0	0	0	—	—	—	0	0	0	0
1999	1	0	0	0	0	—	—	—	0	0	0	0
2000	1	0	0	0	0	—	—	—	0	0	0	0
2001	1	0	0	0	0	—	—	—	0	0	0	0
2002	1	0	0	0	0	—	—	—	0	0	0	0
2003	1	0	0	0	0	—	—	—	0	0	0	0
2004	1	0	0	0	0	—	—	—	0	0	0	0
2005	1	0	0	0	0	—	—	—	0	0	0	0
2006	0	—	—	—	—	—	—	—	0	0	0	0
2007	1	0	0	0	0	—	—	—	0	0	0	0
2008	2	0	0	0	0	—	—	—	0	0	0	0
2009	2	0	0	0	0	—	—	—	0	1	0	1
2010	2	0	0	0	0	—	—	—	0	0	0	0
2011	2	0	0	0	0	—	—	—	0	0	0	0
2012	1	1	0	1	100	0	0	2.0	0	0	0	1
2013	1	1	0	1	100	0	0	3.0	0	0	0	1
2014	1	1	0	1	100	100	0	6.0	0	0	0	1
2015	1	1	0	1	100	0	0	3.0	0	0	0	1
Mean	1	0	0	0	14	25	0	3.5	0	0	0	0

*Unit was pursuit-only during 2006.

Black bear mortality for Mt Dutton unit (24), Utah 2008–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2008	2	1	0	1	50	100	0	7.0	1	0	0	2
2009	2	0	0	0	0	—	—	—	1	0	0	1
2010	2	1	0	1	50	100	0	9.0	1	0	0	2
2011	3	1	0	1	33	100	0	5.0	0	0	0	1
2012	3	0	0	0	0	—	—	—	0	0	0	0
2013	3	0	0	0	0	—	—	—	0	0	0	0
2014	3	2	0	2	67	50	0	4.5	1	0	0	3
2015	5	1	0	1	20	0	0	3.0	0	0	0	1
Mean	3	1	0	1	26	60	0	5.7	1	0	0	1

Black bear mortality for Nine Mile unit (11), Utah 1990–2015.

Year	Permits issued / quota	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	44	14	0	14	32	—	0	—	6	0	0	20
1991	22	3	2	5	23	—	40	—	1	1	0	7
1992	22	6	0	6	27	—	0	—	4	1	0	11
1993	27	0	4	4	15	—	100	—	0	0	0	4
1994	27	3	7	10	37	—	70	—	4	2	0	16
1995	24	3	4	7	29	—	57	—	3	3	0	13
1996	24	6	6	12	50	—	50	—	5	2	0	19
1997	20	2	2	4	20	—	50	—	1	0	0	5
1998	20	4	1	5	25	—	20	—	0	0	0	5
1999	20	2	1	3	15	—	33	—	0	0	0	3
2000	20	4	4	8	40	—	50	—	9	0	0	17
2001	15	3	0	3	20	—	0	8.3	1	0	0	4
2002	20	7	0	7	35	—	0	5.0	2	3	0	12
2003	20	7	2	9	45	—	22	12.0	0	0	0	9
2004	20	7	2	9	45	—	22	7.6	6	4	0	19
2005	20	2	0	2	10	—	0	6.5	0	0	0	2
2006	22	5	1	6	27	—	17	9.0	0	0	1	7
2007	26	5	6	11	42	—	55	6.1	2	3	0	16
2008	29	6	3	10*	34	—	30	7.6	1	0	0	11
2009	34	11	6	17	50	50	35	6.9	1	3	0	21
2010	40	8	4	12	30	25	33	5.0	0	0	0	12
2011	44	10	2	12	27	70	17	5.9	0	0	0	12
2012	34	9	4	13	38	23	31	5.7	1	0	0	14
2013	34	11	3	14	41	50	21	6.6	0	1	0	15
2014	34	18	8	26	76	38	23	5.2	9	2	1	38
2015	49	20	11	31	63	23	35	5.7	1	0	0	32
Mean	27	7	3	10	37	37	32	6.9	2	1	0	13

*Includes one harvest of unknown sex.

Black bear mortality for North Slope, Daggett/Three Corners unit (8bc), Utah 1998–2015.

Year	Permits issued / quota	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1998	4	0	0	0	0	—	—	—	0	0	0	0
1999	4	1	0	1	25	—	0	1.0	0	0	0	1
2000	4	0	0	0	0	—	—	—	2	0	0	2
2001	4	0	0	0	0	—	—	—	1	0	0	1
2002	4	0	0	0	0	—	—	—	2	2	0	4
2003	4	1	0	1	25	—	0	7.0	0	0	0	1
2004	4	0	0	0	0	—	—	—	1	0	0	1
2005	4	1	1	2	50	—	50	6.0	0	0	0	2
2006	5	1	0	1	20	—	0	4.0	0	0	0	1
2007	5	1	1	2	40	—	50	2.0	0	0	0	2
2008	7	1	1	2	29	—	50	5.0	0	0	0	2
2009	7	3	0	3	43	0	0	3.7	0	0	0	3
2010	9	1	1	2	22	50	50	10.5	0	0	0	2
2011	9	2	0	2	22	50	0	5.0	0	1	0	3
2012	11	0	4	4	36	0	100	5.8	0	1	0	5
2013	12	0	1	1	8	0	100	14.0	0	0	0	1
2014	12	2	1	3	25	0	33	2.7	1	3	0	7
2015	12	3	3	6	50	33	50	6.7	0	0	0	6
Mean	7	1	1	2	25	19	43	5.6	0	0	0	2

Black bear mortality for Panguitch Lake/Zion unit (28/29), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	3	0	0	0	0	—	—	—	1	0	0	1
1991	3	1	0	1	33	—	0	—	2	0	0	3
1992	3	0	0	0	0	—	—	—	2	0	0	2
1993	3	0	0	0	0	—	—	—	0	0	0	0
1994	4	1	0	1	25	—	0	—	1	0	0	2
1995	8	1	0	1	13	—	0	—	1	1	0	3
1996	8	0	0	0	0	—	—	—	4	0	0	4
1997	8	0	0	0	0	—	—	—	0	0	0	0
1998	8	0	0	0	0	—	—	—	1	0	0	1
1999	8	0	1	1	13	—	100	5.7	2	0	0	3
2000	6	0	0	0	0	—	—	—	0	0	0	0
2001	6	0	1	1	17	—	100	19.0	0	1	0	2
2002	6	0	1	1	17	—	100	11.0	5	0	0	6
2003	11	1	1	2	18	—	50	5.3	2	0	0	4
2004	12	2	0	2	17	—	0	8.0	3	0	0	5
2005	12	0	0	0	0	—	—	—	2	1	0	3
2006	11	0	1	1	9	—	100	4.0	0	0	0	1
2007	10	1	1	2	20	—	50	3.5	0	0	0	2
2008	11	4	0	5*	45	—	0	5.8	0	0	2	7
2009	11	3	0	3	27	100	0	5.5	0	0	1	4
2010	11	5	1	6	55	67	17	6.7	0	0	0	6
2011	13	5	1	6	46	25	17	5.8	0	0	0	6
2012	16	3	0	3	19	50	0	4.0	0	0	0	3
2013	16	3	2	5	31	20	40	5.8	0	0	0	5
2014	16	3	0	3	19	0	0	2.7	1	0	0	4
2015	17	6	1	7	41	29	14	5.0	0	0	0	7
Mean	9	2	0	2	21	38	22	6.5	1	0	0	3

*Includes one harvest of unknown sex.

Black bear mortality for Paunsaugunt unit (27), Utah 2003–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2003	1	0	0	0	0	—	—	—	0	0	0	0
2004	1	0	0	0	0	—	—	—	0	1	0	1
2005	2	1	0	1	50	—	0	3.0	0	0	0	1
2006	2	0	1	1	50	—	100	—	0	0	0	1
2007	2	0	0	0	0	—	—	—	0	0	0	0
2008	2	0	0	0	0	—	—	—	0	0	0	0
2009	2	1	0	1	50	100	0	8.0	1	0	0	2
2010	3	1	0	1	33	100	0	5.0	0	1	0	2
2011	3	3	0	3	100	100	0	9.7	0	0	0	3
2012	4	2	1	3	75	33	33	3.7	0	0	0	3
2013	4	0	0	0	0	—	—	—	0	0	0	0
2014	4	1	1	2	50	0	50	7.5	2	0	0	4
2015	7	2	1	3	43	33	33	5.7	0	0	0	3
Mean	3	1	0	0	41	54	27	6.1	0	0	0	2

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

	Harvest										Depredation / other mortality			Total harvest + mortality
		Spring		Fall										
Year	Permits issued	Male	Female	Male	Female	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 Plateau, Boulder/Kaiparowits unit (25c/26), Utah 2004–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2004	17	6	2	8	47	—	25	8.3	2	0	2	12
2005	17	2	2	4	24	—	50	4.8	1	1	1	7
2006	16	5	1	6	38	—	17	7.0	0	4	1	11
2007	22	10	1	11	50	—	9	7.1	6	0	0	17
2008	25	6	4	10	40	—	40	7.4	0	0	0	10
2009	25	11	2	13	52	54	15	5.8	4	0	0	17
2010	29	7	4	11	38	55	36	6.4	0	0	0	11
2011	33	7	2	9	27	63	22	8.5	0	1	0	10
2012	40	14	2	16	40	31	13	4.8	0	0	0	16
2013	42	8	6	14	33	43	43	5.9	0	0	0	14
2014	42	11	7	18	43	22	39	6.5	0	0	0	18
2015	41	10	4	14	34	42	29	7.4	1	1	0	16
Mean	29	8	3	11	38	41	28	6.7	1	1	0	13

Black bear mortality for Plateau, Fishlake/Thousand Lakes unit (25ab), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	3	0	0	0	0	—	—	—	0	0	0	0
1991	3	0	0	0	0	—	—	—	0	0	0	0
1992	3	0	0	0	0	—	—	—	0	0	0	0
1993	3	1	0	1	33	—	0	—	1	0	0	2
1994	3	0	0	0	0	—	—	—	2	1	0	3
1995	4	2	1	3	75	—	33	—	1	1	0	5
1996	4	1	2	3	75	—	67	—	0	0	0	3
1997	4	3	0	3	75	—	0	—	0	0	0	3
1998	4	1	0	1	25	—	0	—	0	0	0	1
1999	4	1	0	1	25	—	0	—	0	0	0	1
2000	4	0	0	0	0	—	—	—	0	0	0	0
2001	4	0	0	0	0	—	—	—	1	1	0	2
2002	4	0	1	1	25	—	100	2.0	0	0	0	1
2003	4	3	0	3	75	—	0	5.3	1	0	0	4
2004	6	0	2	2	33	—	100	11.5	0	0	0	2
2005	6	2	0	2	33	—	0	7.0	1	0	0	3
2006	6	0	0	0	0	—	—	—	0	0	0	0
2007	6	1	0	1	17	—	0	6.0	0	0	0	1
2008	6	1	0	1	17	—	0	3.0	0	0	0	1
2009	6	2	0	2	33	50	0	5.5	0	0	0	2
2010	6	1	0	1	17	0	0	4.0	1	0	0	2
2011	6	3	1	4	67	0	25	3.8	0	0	0	4
2012	7	2	1	3	43	0	33	3.7	0	0	0	3
2013	7	3	0	3	43	0	0	2.3	0	0	0	3
2014	7	3	0	3	43	50	0	5.5	0	0	0	3
2015	8	2	1	3	38	0	33	3.0	0	0	0	3
Mean	5	1	0	2	32	12	22	4.8	0	0	0	2

Black bear mortality for San Juan unit (14), Utah 1990–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
1990	16	4	1	5	31	—	20	—	0	0	0	5
1991	16	3	0	3	19	—	0	—	0	0	0	3
1992	16	3	0	3	19	—	0	—	1	0	0	4
1993	16	0	4	4	25	—	100	—	0	0	0	4
1994	16	4	0	4	25	—	0	—	0	0	0	4
1995	16	5	4	9	56	—	44	—	0	1	0	10
1996	20	9	6	15	75	—	40	—	2	1	0	18
1997	20	4	3	7	35	—	43	—	2	0	0	9
1998	20	6	3	10*	50	—	30	—	0	0	0	10
1999	20	4	1	5	25	—	20	—	0	0	0	5
2000	19	9	2	11	58	—	18	—	2	0	0	13
2001	30	12	7	20*	67	—	35	7.3	4	3	0	27
2002	30	10	5	15	50	—	33	8.1	3	0	0	18
2003	30	10	3	13	43	—	23	7.4	0	0	0	13
2004	30	18	1	19	63	—	5	8.4	0	0	0	19
2005	30	8	6	14	47	—	43	9.1	1	2	0	17
2006	29	10	7	17	59	—	41	9.3	2	1	0	20
2007	34	17	3	20	59	—	15	7.7	0	0	0	20
2008	34	18	5	23	68	—	22	6.1	1	0	0	24
2009	35	8	10	18	51	39	56	8.2	1	0	0	19
2010	40	15	9	24	60	45	38	6.2	0	1	0	25
2011	50	27	5	32	64	61	16	6.1	3	2	0	37
2012	48	27	10	37	77	54	19	6.8	1	1	0	39
2013	49	25	14	39	80	46	18	6.7	4	2	0	45
2014	49	34	7	41	84	56	15	6.2	0	0	0	41
2015	104	29	2	31	30	63	6	5.8	2	0	0	33
Mean	31	12	5	17	54	53	27	7.3	1	1	0	19

*Includes one harvest of unknown sex.

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

	Harvest										Depredation / other mortality			Total harvest + mortality
	Permits	Spring		Fall				% permits	%	Mean				
Year	issued	Male	Female	Male	Female	Unknown	Total	filled	female	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 South Slope, Bonanza/Diamond Mtn/Vernal unit (9bcd), Utah 2002–2015.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2002	10	0	2	3*	30	—	67	2.7	2	1	0	6
2003	9	2	2	4	44	—	50	7.3	0	1	1	6
2004	10	5	2	7	70	—	29	4.6	0	1	0	8
2005	12	6	1	7	58	—	14	7.3	0	0	0	7
2006	10	4	2	6	60	—	33	7.8	0	0	0	6
2007	12	6	2	8	67	—	25	7.8	1	2	0	11
2008	16	9	1	10	63	—	10	3.7	1	0	0	11
2009	18	7	2	9	50	56	22	5.3	0	0	0	9
2010	23	6	5	11	48	27	45	4.3	0	2	0	13
2011	23	6	1	7	30	29	14	3.9	4	3	0	14
2012	30	6	7	13	43	38	54	6.2	4	2	0	19
2013	31	7	8	15	48	13	53	8.0	1	0	0	16
2014	31	9	7	16	52	31	44	7.0	4	4	0	24
2015	31	7	8	15	48	36	53	6.7	2	1	0	18
Mean	19	6	4	9	49	32	38	5.9	1	1	0	12

*Includes one harvest of unknown sex.

Black bear mortality for South Slope, Yellowstone unit (9a), Utah 2002–2015.

Year	Permits issued / quota	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2002	6	1	1	3*	50	—	33	6.7	0	0	0	3
2003	7	0	2	2	29	—	100	11.0	0	0	0	2
2004	6	1	2	3	50	—	67	12.3	1	2	0	6
2005	12	4	1	5	42	—	20	4.0	0	1	0	6
2006	12	3	2	5	42	—	40	3.0	1	1	0	7
2007	14	2	2	4	29	—	50	2.0	3	1	1	9
2008	18	2	4	6	33	—	67	9.0	0	1	0	7
2009	18	1	0	1	6	0	0	2.0	0	0	0	1
2010	18	2	1	3	17	33	33	5.7	3	1	0	7
2011	18	2	1	3	17	0	33	2.7	1	0	0	4
2012	18	5	1	6	33	50	17	6.7	3	1	0	10
2013	18	4	2	6	33	0	33	5.8	0	1	0	7
2014	18	6	2	8	44	13	25	3.4	4	0	0	12
2015	18	5	4	9	50	38	44	6.5	0	0	0	9
Mean	14	3	2	5	32	23	39	5.8	1	1	0	6

*Includes one harvest of unknown sex

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

	Harvest										Depredation / other mortality			Total harvest + mortality
		Spring		Fall										
Year	Permits issued	Male	Female	Male	Female	Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
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 Wasatch Mtns, Avintaquin/Currant Creek unit (17bc), Utah 2001–2015.

Year	Permits issued / quota	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2001	14	0	0	0	0	—	—	—	0	0	0	0
2002	14	2	0	2	14	—	0	3.0	3	6	2	13
2003	14	2	0	2	14	—	0	—	3	2	0	7
2004	14	6	2	8	57	—	25	2.6	3	1	0	12
2005	14	1	0	1	7	—	0	2.0	1	1	0	3
2006	16	2	1	3	19	—	33	3.7	6	5	3	17
2007	16	0	3	3	19	—	100	2.3	8	2	0	13
2008	20	4	1	5	25	—	20	7.8	1	0	2	8
2009	24	6	5	11	46	9	45	4.9	4	2	0	17
2010	24	5	1	6	25	50	17	4.3	2	1	0	9
2011	24	3	1	4	17	25	25	5.3	3	1	0	8
2012	19	6	6	12	63	8	50	5.3	3	1	1	17
2013	19	7	3	10	53	25	30	3.6	1	1	0	12
2014	20	7	3	10	50	30	30	4.9	1	1	0	12
2015	24	7	7	14	58	15	50	3.8	1	1	0	16
Mean	18	4	2	6	33	20	36	4.1	3	2	1	11

Black bear mortality for Wasatch Mtns, West unit (17a), Utah 2001–2015.

Year	Permits issued / quota	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2001	20	1	0	1	5	—	0	12.0	3	2	0	5
2002	20	4	2	6	30	—	33	8.2	7	9	2	18
2003	20	5	5	10	50	—	50	—	6	0	0	6
2004	20	5	0	5	25	—	0	5.0	3	4	2	9
2005	19	3	1	4	21	—	25	5.3	6	4	1	11
2006	19	6	1	7	37	—	14	3.9	4	4	1	9
2007	22	3	3	6	27	—	50	8.2	10	6	5	21
2008	27	4	6	10	37	—	60	7.4	3	2	3	8
2009	28	7	4	11	39	20	36	4.3	12	4	0	16
2010	34	10	7	17	50	12	41	4.1	7	0	0	7
2011	42	10	5	15	36	0	33	4.5	6	6	0	12
2012	52	9	14	23	44	10	61	4.2	6	6	0	12
2013	55	16	7	23	42	17	30	4.0	11	2	0	13
2014	55	21	12	33	60	21	36	4.7	13	9	0	22
2015	75	31	28	59	79	12	47	4.2	4	3	1	8
Mean	34	9	6	15	45	14	41	5.7	7	4	1	12