

UTAH BLACK BEAR ANNUAL REPORT 2019



Publication No. 20-25



UTAH BLACK BEAR ANNUAL REPORT 2019

Prepared by:

Heather H. Bernalles
Biometrician

and

Darren DeBlois
Mammals Program Coordinator

Publication No. 20-25

Annual Performance Report for Federal Aid Project W-65-M, segments 67 and 68

State of Utah
Department of Natural Resources
DIVISION OF WILDLIFE RESOURCES

Michal D. Fowlks
Director

TABLE OF CONTENTS

Introduction	1
Methods	1
Results	2
Historical statewide harvest and mortality	3
Harvest by hunt unit	6
Sex ratios	12
Pursuit	13
Livestock depredation	17
Appendix: Historical black bear harvest by hunt unit	18

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 67 and 68, grant agreement periods July 1, 2018 through June 30, 2019 and July 1, 2019 through June 30, 2020, respectively. This Federal Aid project covers the 2019 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, Utah offered two additional 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 seasons. Black bear pursuit was open in all 24 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 2019 black bear hunting and pursuit seasons can be found in the 2019 Utah Black Bear Guidebook.

METHODS

All successful hunters were required to have their bear checked at a Division office or by an 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 2019, 922 limited-entry black bear permits, 28 conservation permits, and 255 harvest-objective permits were sold. Hunters harvested 369 bears, 124 of which were taken in the spring, 123 in summer, and 122 in the fall. 36% of permits/quota were filled. None of the harvest objective units filled their harvest objectives in 2019. The percent of females in the harvest decreased slightly from 38% in 2018 to 36% in 2019. 57 bears were killed as a result of depredation or other mortality.

Utah issued 534 black bear pursuit permits in 2019. Of these, 87 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 365 pursuers went afield during the spring pursuit season, 260 pursuers pursued in unrestricted units during the summer pursuit season, and 53 pursuers pursued in restricted units during the restricted summer pursuit seasons. During the spring season, pursuers treed 0.3 bears per day, while pursuers treed 0.4 bears per day during the general summer season.

More detailed information describing the 2019 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

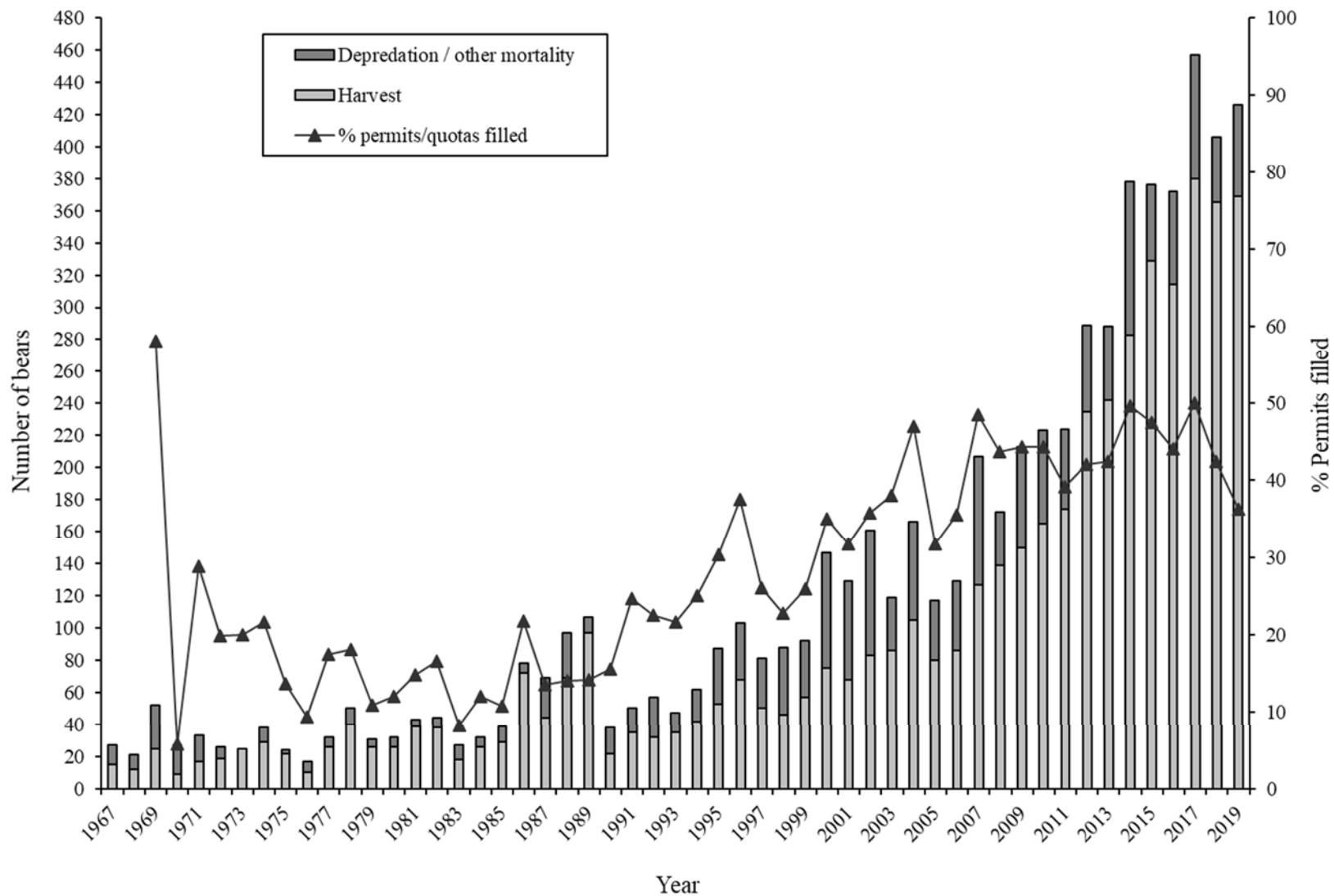
*Beginning in 1999, a bear-only pursuit permit was issued. Prior to 1999, combined cougar/bear pursuit permits were issued.

Statewide black bear harvest and mortality statistics, Utah 2001–2019.

Year	Harvest									Depredation / other mortality			Total harvest + mortality
	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
2016	712*	219	95	0	314	44	30	36	5.5	32	24	2	372
2017	760*	269	111	0	380	50	29	39	5.8	48	29	0	457
2018	859*	228	137	0	365	42	38	28	5.9	26	15	0	406
2019	1017*	236	133	0	369	36	36	28	5.6	37	16	4	426
Mean	467	135	64	0	199	42	31	34	6.1	34	20	3	255

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

Statewide black bear harvest and mortality, Utah 1967–2019.



Statewide black bear harvest by unit / subunit, Utah 2019.

Unit / subunit	Permits / quota*	Harvest			% permits / quota filled	% female	% adult male
		Male	Female	Total			
Beaver	23	8	5	13	57	38	8
Book Cliffs, Bitter Creek/South	67	14	12	26	39	46	29
Book Cliffs, Little Creek (roadless)	18	5	1	6	33	17	83
Cache/Ogden	9	2	0	2	22	0	50
Central Mtns, Manti-North	70	13	10	22	31	41	14
Central Mtns, Manti-South/San Rafael, North	71	23	5	29	41	18	24
Central Mtns, Nebo	48	8	16	24	50	67	4
Chalk Creek/East Canyon/Morgan-South Rich	15	6	0	6	40	0	33
Fillmore, Pahvant	2	0	0	0	0	—	—
Kamas/North Slope, Summit	21	3	5	8	38	63	13
La Sal	152	36	22	58	38	38	41
Monroe	1	1	0	1	100	0	0
Mt Dutton	8	1	2	3	38	67	0
Nine Mile	74	20	7	27	36	26	27
North Slope, Three Corners/West Daggett	11	4	0	4	36	0	0
Panguitch Lake/Zion	23	7	1	8	35	13	50
Paunsaugunt	9	1	2	3	33	67	33
Plateau, Boulder/Kaiparowits	70	15	5	20	29	25	16
Plateau, Fishlake/Thousand Lakes	13	4	1	5	38	20	25
San Juan	152	27	15	42	28	36	45
South Slope, Bonanza/Diamond Mtn/Vernal	36	11	8	19	53	42	22
South Slope, Yellowstone	19	3	1	4	21	25	50
Wasatch Mtns, Avintaquin/Currant Creek	30	7	4	11	37	36	18
Wasatch Mtns, West-Central	73	17	11	28	38	39	28
Statewide total	1017**	236	133	369	36	36	28

*Includes harvest-objective season quotas.

**Total permits includes 1 statewide conservation permit and 1 statewide sportsman permit.

Black bear spring limited-entry harvest, (any legal weapon, no bait allowed), by hunt, Utah 2019.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled*
			Male	Female	Total	
BR7000	Beaver	8	2	1	3	38
BR7001	Book Cliffs, Bitter Creek/South	40	8	5	13	33
BR7017	Cache/Ogden	1	0	0	0	0
BR7003	Central Mtns, Manti-North	18	5	1	6	33
BR7004	Central Mtns, Manti-South/San Rafael, North	13	3	0	3	23
BR7005	Central Mtns, Nebo	11	0	3	3	27
BR7007	Fillmore, Pahvant	1	0	0	0	0
BR7018	Kamas/North Slope, Summit	1	0	0	0	0
BR7008	La Sal	44	20	2	22	50
BR7009	Mt Dutton	3	0	0	0	0
BR7010	Panguitch Lake/Zion	8	4	0	4	50
BR7011	Paunsaugunt	3	0	1	1	33
BR7012	Plateau, Boulder/Kaiparowits	24	7	0	7	29
BR7013	Plateau, Fishlake/Thousand Lakes	4	1	0	1	25
BR7014	San Juan	44	16	2	18	41
BR7015	South Slope, Bonanza/Diamond Mtn/Vernal	12	3	5	8	67
BR7016	Wasatch Mtns, West-Central	35	6	1	7	20

*Does not include bears taken with multi-season conservation permits.

Black bear summer limited-entry harvest, (any legal weapon, no dogs allowed), by hunt, Utah 2019.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled*
			Male	Female	Total	
BR7100	Beaver	8	4	0	4	50
BR7101	Book Cliffs, Bitter Creek/South	10	2	1	3	30
BR7102	Book Cliffs, Little Creek (roadless)	2	2	0	2	100
BR7121	Cache/Ogden	1	1	0	1	100
BR7104	Central Mtns, Manti-North	12	3	1	4	33
BR7105	Central Mtns, Manti-South/San Rafael, North	13	5	3	8	62
BR7106	Central Mtns, Nebo	10	3	5	8	80
BR7122	Chalk Creek/East Canyon/Morgan-South Rich	4	1	0	1	25
BR7123	Kamas/North Slope, Summit	7	0	3	3	43
BR7108	La Sal	25	10	7	17	68
BR7109	Mt Dutton	3	0	1	1	33
BR7110	Nine Mile	12	6	1	7	58
BR7111	North Slope, Three Corners/West Daggett	3	3	0	3	100
BR7112	Panguitch Lake/Zion	4	1	0	1	25
BR7113	Paunsaugunt	3	1	0	1	33
BR7114	Plateau, Boulder/Kaiparowits	12	5	1	6	50
BR7115	Plateau, Fishlake/Thousand Lakes	3	1	1	2	67
BR7116	San Juan	25	5	9	14	56
BR7117	South Slope, Bonanza/Diamond Mtn/Vernal	8	3	1	4	50
BR7118	South Slope, Yellowstone	4	2	1	3	75
BR7119	Wasatch Mtns, Avintaquin/Currant Creek	5	1	1	2	40
BR7120	Wasatch Mtns, West-Central	21	9	3	12	57

*Does not include bears taken with multi-season conservation permits.

Black bear fall limited-entry harvest, (any legal weapon), by hunt, Utah 2019.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled*
			Male	Female	Total	
BR7200	Beaver	4	2	2	4	100
BR7201	Book Cliffs, Bitter Creek/South	10	1	5	6	60
BR7228	Cache/Ogden	1	1	0	1	100
BR7203	Central Mtns, Manti-North	10	2	3	5	50
BR7204	Central Mtns, Manti-South/San Rafael, North	13	8	0	8	62
BR7205	Central Mtns, Nebo	3	3	0	3	100
BR7207	Fillmore, Pahvant	1	0	0	0	0
BR7229	Kamas/North Slope, Summit	5	0	2	2	40
BR7208	La Sal	5	0	2	2	40
BR7209	Monroe	1	1	0	1	100
BR7210	Mt Dutton	2	1	1	2	100
BR7211	Nine Mile	26	8	1	9	35
BR7212	North Slope, Three Corners/West Daggett	2	0	0	0	0
BR7213	Panguitch Lake/Zion	8	1	1	2	25
BR7214	Paunsaugunt	3	0	1	1	33
BR7215	Plateau, Boulder/Kaiparowits	6	0	3	3	50
BR7216	Plateau, Fishlake/Thousand Lakes	4	1	0	1	25
BR7217	San Juan	5	2	2	4	80
BR7218	South Slope, Bonanza/Diamond Mtn/Vernal	6	2	1	3	50
BR7219	South Slope, Yellowstone	4	0	0	0	0
BR7220	Wasatch Mtns, Avintaquin/Currant Creek	7	2	1	3	43
BR7221	Wasatch Mtns, West-Central	7	0	4	4	57

*Does not include bears taken with multi-season conservation permits.

Black bear spot & stalk limited-entry harvest, (any legal weapon), by hunt, Utah 2019.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled*
			Male	Female	Total	
BR7224	Book Cliffs, Little Creek Roadless	7	2	0	2	29
BR7225	Book Cliffs, Little Creek Roadless	7	0	1	1	14
BR7230	Cache/Ogden	5	0	0	0	0
BR7231	Central Mtns, Manti-North	20	0	0	0	0
BR7232	Central Mtns, Manti-South/San Rafael, North	20	1	1	2	10
BR7233	Central Mtns, Nebo	20	1	5	6	30
BR7234	Chalk Creek/East Canyon/Morgan-South Rich	5	1	0	1	20
BR7235	Kamas/North Slope, Summit	5	0	0	0	0
BR7226	La Sal	65	2	10	12	18
BR7236	Plateau, Boulder/Kaiparowits	20	2	0	2	10
BR7227	San Juan	65	1	1	2	3

*Does not include bears taken with multi-season conservation permits.

Black bear harvest-objective harvest, by hunt, Utah 2019.

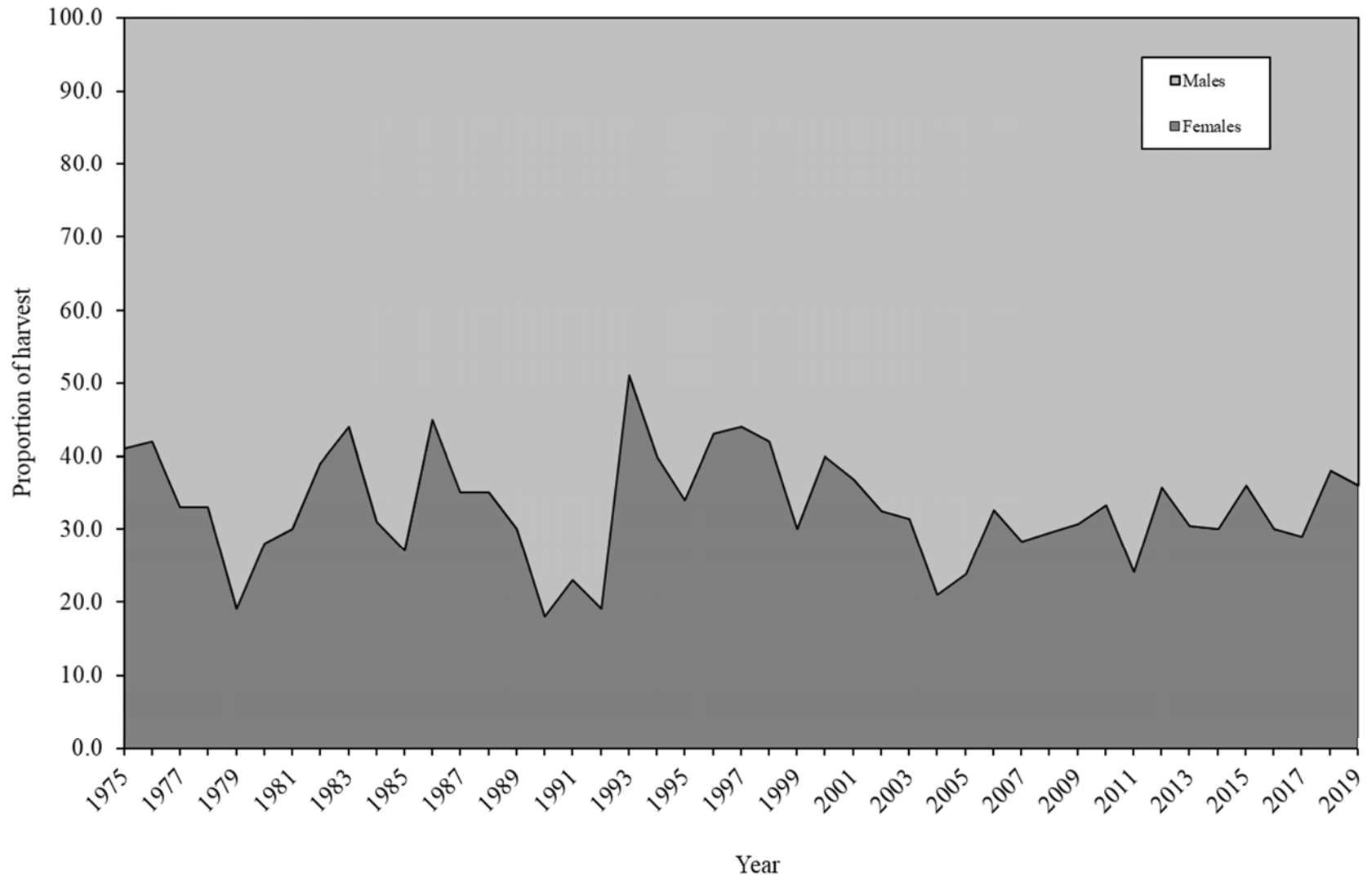
Unit / subunit	Season	Quota	Harvest			% quota filled
			Male	Female	Total	
Chalk Creek/East Canyon/Morgan-South Rich	Spring	3	3	0	3	100
Chalk Creek/East Canyon/Morgan-South Rich	Fall	3	1	0	1	33
Nine Mile	Spring	20	4	4	8	40
Nine Mile	Fall	10	0	1	1	10
North Slope, Three Corners/West Daggett	Spring	3	1	0	1	33
North Slope, Three Corners/West Daggett	Fall	2	0	0	0	0
South Slope, Bonanza/Diamond Mtn/Vernal	Fall	3	0	0	0	0
South Slope, Yellowstone	Spring	5	0	0	0	0
South Slope, Yellowstone	Fall	3	0	0	0	0
Wasatch Mtns, Avintaquin/Currant Creek	Spring	12	1	1	2	17
Wasatch Mtns, Avintaquin/Currant Creek	Fall	3	0	1	1	33

Black bear multi-season* limited-entry harvest, by hunt, Utah 2019.

Hunt number	Unit / subunit	Permits	Harvest			% permits filled
			Male	Female	Total	
BR7318	Beaver	3	0	2	2	67
BR7300	Book Cliffs, Bitter Creek/South	7	3	1	4	57
BR7301	Book Cliffs, Little Creek (roadless)	2	1	0	1	50
BR7320	Cache/Ogden	1	0	0	0	0
BR7303	Central Mtns, Manti-North	10	3	4	7	70
BR7304	Central Mtns, Manti-South/San Rafael, North	12	6	2	8	67
BR7305	Central Mtns, Nebo	4	1	3	4	100
BR7321	Kamas/North Slope, Summit	4	2	0	2	50
BR7307	La Sal	13	4	1	5	38
BR7317	Nine Mile	6	2	0	2	33
BR7308	North Slope, Three Corners/West Daggett	1	0	0	0	0
BR7309	Panguitch Lake/Zion	3	1	0	1	33
BR7310	Plateau, Boulder/Kaiparowits	8	1	1	2	25
BR7311	Plateau, Fishlake/Thousand Lakes	2	1	0	1	50
BR7312	San Juan	13	3	1	4	31
BR7313	South Slope, Bonanza/Diamond Mtn/Vernal	7	3	1	4	57
BR7314	South Slope, Yellowstone	3	1	0	1	33
BR7315	Wasatch Mtns, Avintaquin/Currant Creek	3	3	0	3	100
BR7316	Wasatch Mtns, West-Central	10	2	3	5	50

*Includes multi-season conservation permits and their associated harvest, if any.

Sex ratio of black bear harvest, Utah 1975–2019.



Statewide black bear pursuit statistics, Utah 2002–2019.

Year	Permits sold	n	Spring			General summer / fall		
			Pursuers	Bears / pursuit-day	Bears / pursuer	Pursuers	Bears / pursuit-day	Bears / pursuer
2002	359	88	318	0.5	7.5	—	—	—
2003	378	91	291	0.5	8.7	228	0.5	6.2
2004	373	73	309	0.4	5.0	212	0.5	5.9
2005	414	103	256	0.4	5.0	436	0.3	2.7
2006	353	78	328	0.3	3.7	—	—	—
2007	363	120	329	0.5	6.5	157	0.6	4.3
2008	391	96	313	0.6	7.8	238	0.9	5.4
2009	424	90	359	0.4	5.1	287	0.5	4.9
2010	460	172	326	0.4	4.9	164	0.3	2.6
2011	504	102	308	0.4	5.3	172	0.5	3.0
2012	456	100	285	0.4	5.6	140	0.3	2.4
2013	468	108	318	0.5	5.6	162	0.3	2.2
2014	498	99	304	0.4	5.2	175	0.5	3.3
2015	528	165	432	0.4	5.6	166	0.4	2.5
2016	492	157	345	0.5	6.4	172	0.5	3.7
2017	419	155	257	0.5	7.4	162	0.6	4.5
2018	557	177	352	0.4	5.6	179	0.4	3.2
2019	534	193	437	0.3	4.3	260	0.4	3.6
Mean	443	120	295	0.4	4.9	207	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, 2010–2019.

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
2016	96	46	57	0.6	3.9
2017	96	46	49	0.6	3.5
2018	93	28	55	0.8	5.8
2019	87	33	53	0.9	4.8
Mean	99	48	59	0.7	4.5

Statewide spring black bear pursuit statistics by unit / subunit, Utah 2019.

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	2	6	33	6	3	0	3	12	0.4	2.0
Book Cliffs, Bitter Creek/South	18	50	650	94	130	22	11	257	0.4	5.1
Book Cliffs, Little Creek (roadless)	5	14	177	11	39	11	0	61	0.3	4.4
Cache/Ogden	5	14	130	0	3	3	0	6	0.0	0.4
Central Mtns, Manti-North	8	22	271	11	25	11	0	47	0.2	2.1
Central Mtns, Manti-South/San Rafael, North	6	17	130	19	30	3	0	52	0.4	3.1
Central Mtns, Nebo	9	25	194	14	39	8	0	61	0.3	2.4
Chalk Creek/East Canyon/Morgan-South Rich	1	3	11	3	0	0	0	3	0.3	1.0
Fillmore, Pahvant	0	0	—	—	—	—	—	—	—	—
Kamas/North Slope, Summit	3	8	66	6	6	0	0	12	0.2	1.5
La Sal	32	89	883	169	188	66	8	431	0.5	4.8
Monroe	0	0	—	—	—	—	—	—	—	—
Mt Dutton	1	3	3	3	0	0	0	3	1.0	1.0
Nine Mile	1	3	22	3	0	0	0	3	0.1	1.0
North Slope, Three Corners/West Daggett	1	3	11	6	3	0	0	9	0.8	3.0
Panguitch Lake/Zion	6	17	147	11	6	0	3	20	0.1	1.2
Paunsaugunt	1	3	28	0	0	0	0	0	0.0	0.0
Plateau, Boulder/Kaiparowits	6	17	119	3	6	6	0	15	0.1	0.9
Plateau, Fishlake/Thousand Lakes	5	14	268	17	11	0	0	28	0.1	2.0
San Juan	25	69	878	139	125	23	6	293	0.3	4.2
South Slope, Bonanza/Diamond Mtn/Vernal	9	25	177	50	58	6	6	120	0.7	4.8
South Slope, Yellowstone	1	3	3	0	0	0	0	0	0.0	0.0
Wasatch Mtns, Avintaquin/Currant Creek	4	11	75	14	11	0	3	28	0.4	2.5
Wasatch Mtns, West-Central	12	33	313	36	64	8	17	125	0.4	3.8
Unknown	1	3	11	0	0	0	0	0	0.0	0.0
Statewide total*	132	365	4567	609	744	167	54	1574	0.3	4.3

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

Statewide general summer black bear pursuit statistics by unit / subunit, Utah 2019.

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	4	11	50	8	14	0	0	22	0.4	2.0
Cache/Ogden	4	11	89	8	3	3	6	20	0.2	1.8
Central Mtns, Manti-North	8	22	213	19	19	8	0	46	0.2	2.1
Central Mtns, Manti-South/San Rafael, North	10	28	302	28	47	8	3	86	0.3	3.1
Central Mtns, Nebo	7	19	141	11	39	19	8	77	0.5	4.1
Chalk Creek/East Canyon/Morgan-South Rich	1	3	28	3	6	0	0	9	0.3	3.0
Fillmore, Pahvant	0	0	—	—	—	—	—	—	—	—
Kamas/North Slope, Summit	2	6	58	8	17	11	0	36	0.6	6.0
Monroe	1	3	11	0	6	0	0	6	0.5	2.0
Mt Dutton	0	0	—	—	—	—	—	—	—	—
Nine Mile	2	6	17	0	0	0	0	0	0.0	0.0
North Slope, Three Corners/West Daggett	1	3	6	3	0	0	0	3	0.5	1.0
Panguitch Lake/Zion	4	11	72	8	3	0	8	19	0.3	1.7
Paunsaugunt	2	6	42	0	3	0	0	3	0.1	0.5
Plateau, Boulder/Kaiparowits	4	11	102	6	6	6	0	18	0.2	1.6
Plateau, Fishlake/Thousand Lakes	8	22	125	33	44	6	0	83	0.7	3.8
South Slope, Bonanza/Diamond Mtn/Vernal	13	36	299	69	91	11	0	171	0.6	4.8
South Slope, Yellowstone	4	11	42	17	6	0	0	23	0.5	2.1
Wasatch Mtns, Avintaquin/Currant Creek	5	14	80	8	17	0	6	31	0.4	2.2
Wasatch Mtns, West	12	33	257	75	77	17	19	188	0.7	5.7
Unknown	12	33	205	50	53	17	0	120	0.6	3.6
Statewide total*	94	260	2089	346	437	106	50	939	0.4	3.6

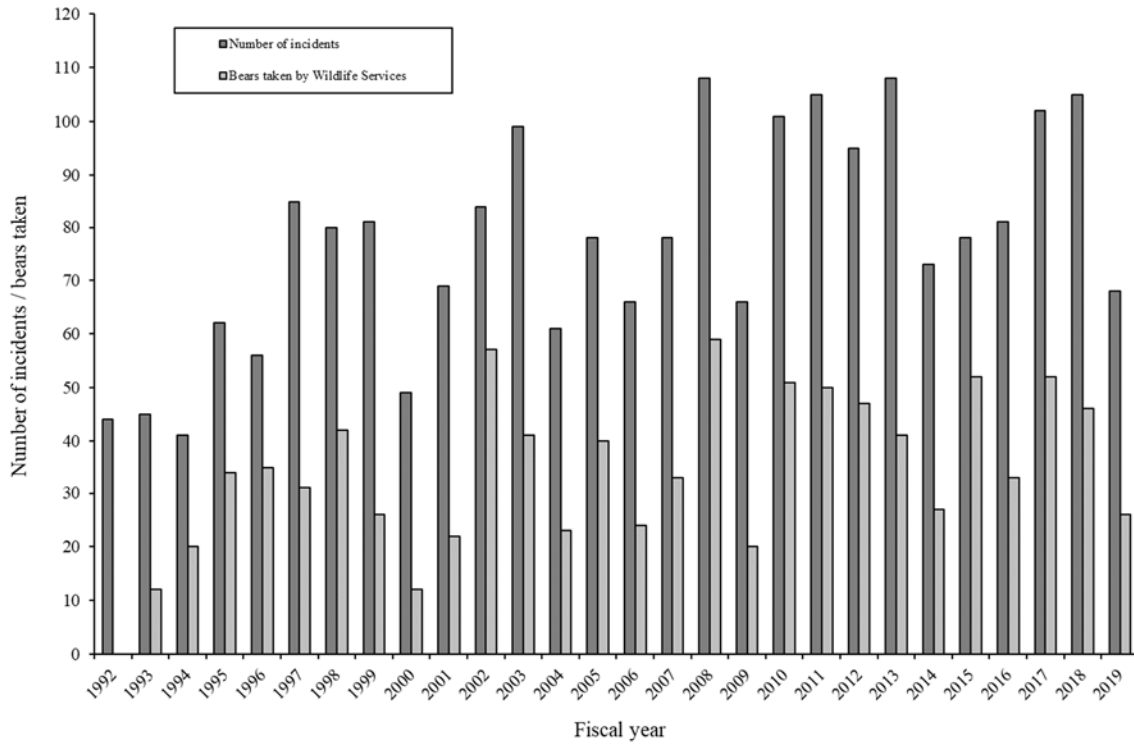
*Totals for sample size and pursuers afield are not the sum of the columns because pursuers could pursue on multiple units.

43% of permit holders indicated that they intended to pursue fall season.

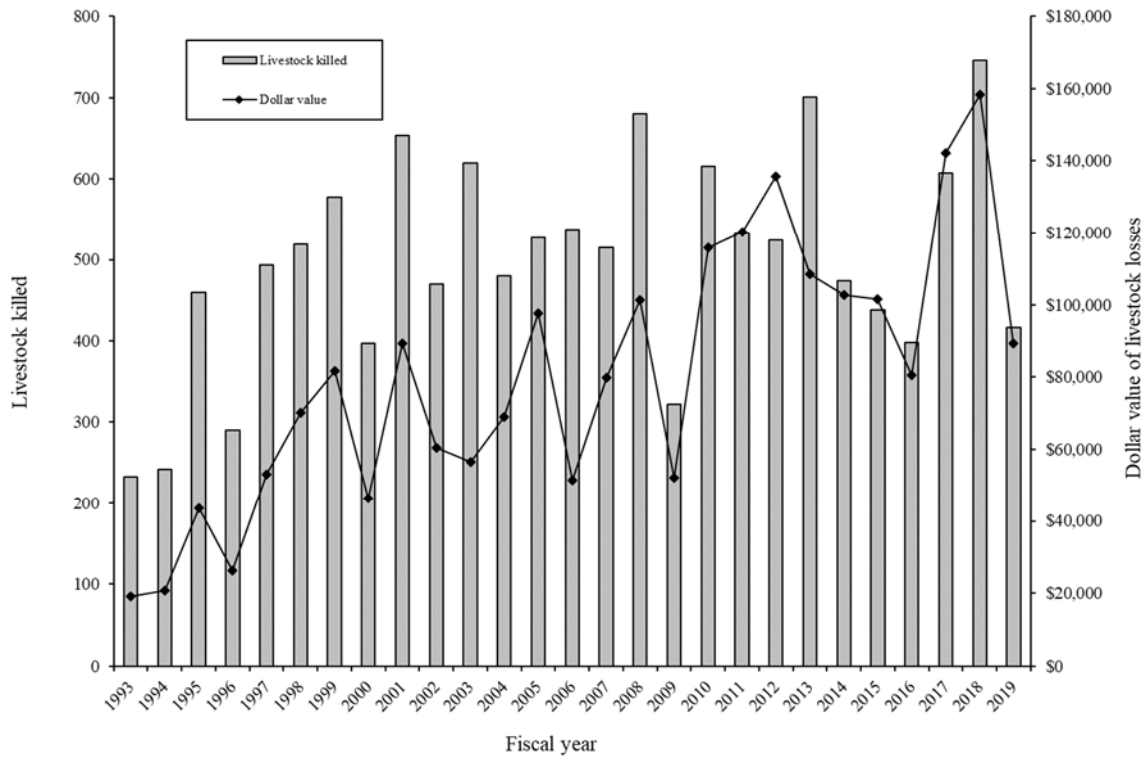
Summer black bear pursuit statistics in restricted units, by unit and season, Utah 2019.

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)	26	10	16	78	16	29	0	0	45	0.6	2.8
La Sal (early)	14	6	12	47	37	19	16	0	72	1.5	6.0
San Juan (early)	5	1	5	60	0	0	0	50	50	0.8	10.0
Book Cliffs (late)	24	8	6	18	21	0	0	0	21	1.2	3.5
La Sal (late)	13	3	9	43	9	22	13	0	44	1.0	4.9
San Juan (late)	5	5	5	30	7	9	6	2	24	0.8	4.8

Livestock depredation incidents and black bears killed by Wildlife Services, Utah 1992–2019.



Livestock losses due to black bear depredation, Utah 1992–2019.



APPENDIX

HISTORICAL BLACK BEAR HARVEST BY HUNT UNIT

Black bear mortality for Beaver unit (22), Utah 1990–2019.

Year	Permits issued / quota	Harvest			Harvest			Mean age	Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female		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
2016	22	4	9	13	59	8	69	7.3	0	0	1	14
2017	20	9	3	12	60	42	25	5.2	0	0	0	12
2018	22	9	8	17	77	12	47	5.5	0	0	0	17
2019	23	8	5	13	57	8	38	4.2	0	0	0	13
Mean	8	2	2	4	51	29	40	6.9	0	0	0	4

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

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

Year	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
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 2010–2019.

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
2016	56	17	4	21	38	48	19	5.7	1	1	0	23
2017	56	11	7	18	32	47	39	6.4	2	2	0	22
2018	56	12	6	18	32	53	33	6.3	1	0	0	19
2019	67	14	12	26	39	29	46	7.9	1	0	0	27
Mean	43	5	2	7	43	47	27	6.6	1	1	0	20

Black bear mortality for Book Cliffs, Little Creek (roadless) unit (10c), Utah 2010–2019.

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
2016	15	3	0	3	20	67	0	7.7	0	0	0	3
2017	15	5	2	7	47	67	29	7.7	0	0	0	7
2018	18	2	1	3	17	0	33	4.3	0	0	0	3
2019	18	5	1	6	33	83	17	8.3	0	0	0	6
Mean	13	1	0	1	30	68	16	7.8	0	0	0	4

Black bear mortality for Cache/Ogden unit (2/3), Utah 2019.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2019	9	2	0	2	22	50	0	3.0	0	0	0	2
Mean	9	2	0	2	22	50	0	3.0	0	0	0	2

Black bear mortality for Cache/Ogden/Morgan-South Rich/East Canyon unit (2/3/4/5), Utah 1990–2018.

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
2016	9	3	1	4	44	25	25	4.3	0	2	0	6
2017	9	2	0	2	22	100	0	5.5	1	1	0	4
2018	9	2	1	3	33	67	33	7.7	2	0	0	5
Mean	3	1	0	1	23	53	11	4.8	1	0	0	2

*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 1990–2019.

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
2016	35	10	4	14	40	23	29	4.7	6	4	0	24
2017	35	14	5	19	54	29	26	5.1	7	9	0	35
2018	41	15	7	22	54	21	32	5.1	8	5	0	35
2019	70	13	9	22	31	14	41	4.8	4	4	0	30
Mean	24	5	3	8	32	23	35	4.8	4	2	0	14

*Includes one harvest of unknown sex.

Black bear mortality for Central Mtns, Manti-South/San Rafael, North unit (16c/12a), Utah 1990–2019.

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
2016	24	18	1	19	79	47	5	4.7	8	4	0	31
2017	34	19	6	25	74	40	24	5.0	8	3	0	36
2018	41	17	11	28	66	0	39	4.2	2	5	0	35
2019	71	23	6	29	41	24	21	3.8	3	1	0	33
Mean	19	6	2	8	41	27	27	4.6	2	2	0	12

Black bear mortality for Central Mtns, Nebo unit (16a), Utah 1990–2019.

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
2016	21	7	4	11	52	29	36	3.6	3	3	0	17
2017	26	10	9	19	69	26	47	6.1	0	2	0	21
2018	29	12	7	19	66	25	37	4.7	0	1	0	20
2019	48	8	16	24	50	4	67	6.0	3	0	1	28
Mean	12	3	3	6	48	18	43	4.7	1	1	0	8

*Includes one harvest of unknown sex.

Black bear mortality for Chalk Creek/East Canyon/Morgan-South Rich unit (4/5/6), Utah 2019.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2019	15	6	0	6	40	33	0	4.7	2	1	1	10
Mean	15	6	0	6	40	33	0	4.7	2	1	1	10

Black bear mortality for Chalk Creek/Kamas/North Slope, Summit unit (6/7/8a), Utah 1990–2018.

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
2016	17	7	0	7	41	33	0	4.2	2	4	1	14
2017	17	6	1	7	41	17	14	3.8	1	1	0	9
2018	19	8	3	11	58	43	27	4.5	3	0	0	14
Mean	7	2	1	3	34	21	30	4.5	3	1	0	6

Black bear mortality for Fillmore, Pahvant unit (21b), Utah 2012–2019.

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	50	0	0	3.0	0	0	0	1
2016	2	1	0	1	50	100	0	15.0	0	0	0	1
2017	2	0	1	1	50	0	100	2.0	0	0	0	1
2018	2	0	0	0	0	—	—	—	0	0	0	0
2019	2	0	0	0	0	—	—	—	0	0	0	0
Mean	2	0	0	0	19	33	33	6.7	0	0	0	0

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

Year	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 Kamas/North Slope, Summit unit (7/8a), Utah 2019.

Year	Permits issued	Harvest							Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female	Mean age	Male	Female	Unknown	
2019	21	3	5	8	38	13	63	4.4	0	0	0	8
Mean	21	3	5	8	38	13	63	4.4	0	0	0	8

Black bear mortality for La Sal unit (13), Utah 1990–2019.

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
2016	109	36	12	48	44	57	25	6.2	0	1	0	49
2017	124	43	17	60	48	44	28	6.3	6	2	0	68
2018	149	36	21	57	38	41	37	6.5	2	0	0	59
2019	152	36	22	58	38	41	38	6.4	3	4	0	65
Mean	44	15	7	22	50	41	32	6.6	2	1	0	24

Black bear mortality for Monroe unit (23), Utah 1990–2019.

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
2016	1	1	0	1	100	—	0	—	0	0	0	1
2017	1	0	0	0	0	—	—	—	0	0	0	0
2018	1	1	0	1	100	—	0	5.0	0	0	0	1
2019	1	1	0	1	100	0	0	4.0	0	0	0	1
Mean	1	0	0	0	21	33	0	3.8	0	0	0	0

*Unit was pursuit-only during 2006.

Black bear mortality for Mt Dutton unit (24), Utah 2008–2019.

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
2016	5	0	2	2	40	0	100	4.0	0	0	0	2
2017	6	3	1	4	67	25	25	4.8	1	1	0	6
2018	6	3	0	3	50	50	0	3.3	0	0	0	3
2019	8	1	2	3	38	0	67	3.5	0	0	1	4
Mean	4	0	0	1	38	31	28	4.9	0	0	0	2

Black bear mortality for Nine Mile unit (11), Utah 1990–2019.

Year	Permits issued / quota	Harvest			Harvest			Mean age	Depredation / other mortality			Total harvest + mortality
		Male	Female	Total	% permits filled	% adult male	% female		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
2016	58	14	7	21	36	14	33	4.3	1	0	0	22
2017	62	18	7	25	40	43	28	6.7	5	0	0	30
2018	73	14	14	28	38	17	50	6.7	1	0	0	29
2019	74	20	7	27	36	27	26	5.5	4	0	0	31
Mean	33	8	4	12	37	32	33	6.6	2	1	0	15

*Includes one harvest of unknown sex.

Black bear mortality for North Slope, Daggett/Three Corners unit (8bc), Utah 1998–2019.

Year	Permits issued / quota	Harvest			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
2016	9	4	1	5	56	40	20	5.6	0	0	0	5
2017	9	3	1	4	44	25	25	4.5	0	0	0	4
2018	9	2	1	3	33	50	33	4.7	0	0	0	3
2019	11	4	0	4	36	0	0	3.5	1	0	0	5
Mean	7	1	1	2	29	22	35	5.4	0	0	0	3

Black bear mortality for Panguitch Lake/Zion unit (28/29), Utah 1990–2019.

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
2016	16	3	0	3	19	—	0	—	1	0	0	4
2017	17	6	0	6	35	67	0	6.2	1	2	0	9
2018	19	5	1	6	32	50	17	4.6	1	0	0	7
2019	23	7	1	8	35	50	13	5.3	2	0	0	10
Mean	11	2	0	2	23	46	18	6.3	1	0	0	4

*Includes one harvest of unknown sex.

Black bear mortality for Paunsaugunt unit (27), Utah 2003–2019.

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
2016	7	0	3	3	43	0	100	7.0	0	0	0	3
2017	6	1	0	1	17	0	0	4.0	0	0	0	1
2018	8	2	0	2	25	—	0	5.0	0	0	0	2
2019	9	1	2	3	33	33	67	9.7	0	1	0	4
Mean	4	1	0	1	36	43	38	6.2	0	0	0	2

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

Year	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	—
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 2004–2019.

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
2016	48	9	6	15	31	21	40	4.9	0	1	0	16
2017	48	11	13	24	50	26	54	6.1	0	0	0	24
2018	48	14	11	25	52	24	44	6.6	0	0	0	25
2019	70	15	5	20	29%	16%	25%	4.1	0	0	0	20
Mean	35	5	2	7	39%	32%	33%	6.4	1	1	0	15

Black bear mortality for Plateau, Fishlake/Thousand Lakes unit (25ab), Utah 1990–2019.

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
2016	9	5	3	8	89	14	38	3.3	1	0	0	9
2017	9	5	1	6	67	50	17	3.7	0	0	0	6
2018	10	4	1	5	50	100	20	5.6	1	0	0	6
2019	13	4	1	5	38	25	20	3.5	1	0	1	7
Mean	6	2	1	2	38	26	23	4.6	0	0	0	3

Black bear mortality for San Juan unit (14), Utah 1990–2019.

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
2016	109	33	7	40	37	68	18	7.7	1	0	0	41
2017	124	49	8	57	46	66	14	7.1	9	2	0	68
2018	149	35	24	59	39	40	41	7.4	1	2	0	62
2019	152	27	15	42	28	45	36	6.9	1	0	0	43
Mean	45	15	6	21	47	54	27	7.3	1	1	0	23

*Includes one harvest of unknown sex.

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

Year	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
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 2002–2019.

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
2016	31	8	5	13	42	31	38	5.6	0	0	0	13
2017	31	12	5	17	55	19	29	5.3	1	0	0	18
2018	31	11	7	18	58	36	39	5.1	1	0	0	19
2019	36	11	8	19	53	22	42	5.2	3	0	0	22
Mean	22	4	3	7	50	28	38	5.7	1	1	0	13

*Includes one harvest of unknown sex.

Black bear mortality for South Slope, Yellowstone unit (9a), Utah 2002–2019.

Year	Permits issued / quota	Harvest			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
2016	18	8	4	12	67	8	33	4.5	0	0	0	12
2017	18	9	3	12	67	33	25	5.9	0	0	0	12
2018	18	3	1	4	22	33	25	7.0	2	0	0	6
2019	19	3	1	4	21	50	25	8.3	1	0	0	5
Mean	15	3	2	5	35	25	35	5.9	1	1	0	7

*Includes one harvest of unknown sex

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

Year	Harvest										Depredation / other mortality			Total harvest + mortality
	Permits issued	Spring		Fall		Unknown	Total	% permits filled	% female	Mean age	Male	Female	Unknown	
1990	26	—	—	7	0						0	7	27	0
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 2001–2019.

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
2016	29	8	6	14	48	14	43	3.7	1	1	0	16
2017	29	5	6	11	38	20	55	4.3	0	0	0	11
2018	29	7	4	11	38	22	36	6.5	1	0	0	12
2019	30	7	4	11	37	18	36	4.9	3	0	0	14
Mean	21	3	2	5	35	20	38	4.3	2	1	0	11

Black bear mortality for Wasatch Mtns, West-Central unit (17a), Utah 2001–2019.

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
2016	60	20	16	36	60	20	44	5.1	7	3	0	46
2017	60	27	15	42	70	12	36	4.4	6	4	0	52
2018	70	14	8	22	31	17	36	4.0	0	1	0	23
2019	73	17	11	28	38	28	39	4.4	5	5	0	38
Mean	41	7	5	12	46	15	41	5.4	6	4	1	30