

**AGGRESSIVE BEHAVIOR AND FOOD-BEGGING
BY WILDLIFE IN YELLOWSTONE:**

A Summary of Incidents 1963 – 1999

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March 17, 2000

This report summarizes recent wildlife/human interactions (excluding bear-related interactions) that have occurred in Yellowstone National Park, with emphasis on details that are given in the Case Incident Reports maintained by the park's Law Enforcement Office.

We reviewed the 1980-99 Case Incident Reports prepared by park rangers and summarized 17 descriptive characteristics for each incident. (See the attached tables). Day numbers in the tables are Julian Calendar days; a conversion chart is attached at the end of this report. Blank spaces in the tables indicate that information on that characteristic was not found in the Case Incident Report. Although this record may be incomplete, it initiates a first data base that may be refined for future use. A few incidents from ranger station logs are included, as noted in the tables. Dr. Mary Meagher kindly provided records of bison incidents that occurred between 1963 and 1974.

These tables show two principal types of wildlife/human interactions that result in potential management situations – aggressive wildlife, and food-begging wildlife. These are not always separate behaviors, however, because food-begging apparently may sometimes be followed by aggressive behavior. Some aggressive behaviors by wildlife have resulted from human actions that have not involved food, as in cases of close-approach by humans (often to photograph wildlife), or in defense of nearby young; these interactions could as well be called defensive behaviors because they would not have occurred in the absence of humans. During the breeding seasons of bison and elk particularly (and to a very much lower degree in bighorn sheep), bulls and rams may

initiate aggressive behavior toward humans or vehicles, sometimes without apparent human provocation.

A brief summary of incidents, by species, follows. See the attached tables for details.

Bighorn Sheep

During the winters of 1980 and 1982, bighorn rams in Gardner Canyon charged vehicles, with resulting minor damage to the vehicles.

In 1999, bighorn sheep fed on popcorn and blocked traffic at Dunraven pass.

Bison

Bison/human incident records began in 1963. Between 1963 and 1974, there were 7 gorings by bison, with one human fatality in 1971 when a man was killed instantly while being photographed with a bison in the Lower Geyser Basin.

No bison/human incidents were reported for 1966 through 1968, 1970, 1973, or 1979 through 1981.

In February 1978, a skier was injured by a bison near Old Faithful and two photographers were gored that Fall.

Humans have been charged by bison each year since 1982, as follows:

Year	# Charged	Year	# Charged
1982	3	1991	5
1983	12	1992	3
1984	5	1993	3
1985	10	1994	5
1986	4	1995	2
1987	14	1996	1
1988	4	1997	2
1989	3	1998	5
1990	3	1999	5

Yellowstone Park visitors are injured by bison more frequently than by any other wild animal. Since 1990, 36 incidents have occurred in summer, 2 in autumn, and 3 in winter. Many reports did not specify the sex of the bison involved; 23 specify bulls and only one incident with a cow bison was reported. That cow had a newborn calf nearby, charged a jogger, and struck her on the head and back with its hooves after the jogger "dove into the dirt."

In July 1983, in Hayden Valley, a man was injured by a bison and died 4 weeks later from these injuries.

In 1984, a snowmobile driver broke an arm when his machine ran into a bison; the bison appeared to be uninjured.

In 1989, a snowmobile driver was killed on impact when his machine ran into a bison lying in a roadway; the bison appeared to be uninjured.

In addition to bruises, bison injuries to humans since 1990 have included:

- puncture wounds to thighs (7), lower back (2), buttock (2), abdomen (1), groin area (1), leg (1), side (1), chest (1)
- lacerated head (2), thigh (1)
- fractured clavicle (1), humerus (1), rib (1)
- abrasion to arm (2), thigh (1), knees (1), groin area (1)
- injured wrist (1), pneumothorax (1), elbow (1)
- broken elbow (1), ribs (1), arm (1)
- contusion on head (1).

Since 1990, 4 of the people knocked to the ground by bison reported no injuries from the encounter. Eleven people were thrown into the air by the bison for distances up to 15 feet. One person was thrown against a parked car; one was thrown onto the bison's back where he was gored a second time as the bison twisted its' head; one man was thrown 15 feet into the air, did a flip, and landed in a tree.

What were people doing just before the bison charged? Thirty-four reports gave some detail on this question. In 10 cases, people approached to pose with or to photograph bison, at distances between 2 and 51 feet. Six people were within 10 feet of the bison when it charged. Other people were petting (1) or feeding (2) the bison, or approaching within 20 feet just to have a closer view (2). In 2 cases, bison charged after sticks or stones were thrown at them. A photographer who was lying on the ground was trampled by a charging bison, and told the investigating ranger that the bison then "sat" on him.. (Now, that would have been a picture!)

Surprise encounters with bison have included: a man walking on a lighted trail with a flashlight, a man returning to his car from fishing, a woman who came out of a dormitory door and could not see a bison behind a nearby fire escape, a boy standing in line at a restroom, a woman jogging on a trail, a hiker on a trail, a family sitting at a picnic table 100 yards from wallowing bison, a woman enroute to a restroom, and a woman who was using a phone in a telephone booth when the bison butted the phone booth. These "surprise" encounters apparently can occur almost anytime, anywhere.

We searched 29 Case Incident reports to categorize any apparently unusual actions or warning activities by bison, just before they charged. Bison "false-charged" in only one case, stamped feet in one case, and snorted in another case. In two cases, the bison shook

its' head before charging. Wallowing preceded two charges. In three cases, the bison butted trees just before they charged humans. Therefore, it may be advisable to inform visitors that snorting, head shaking, foot-stomping, tree-thrashing, or wallowing may be additional warning signs that a bison is about to charge.

Twenty-one of the 38 reports included information on what a bison did immediately after its' first charge. In only 3 cases did the bison stand over the downed human, and then only for a minute or two. One person was head-butted back to the ground when she tried to get up, and another was gored several times while she was on the ground. In general, however, after the first charge the bison moved away and resumed grazing. Prolonged encounters may have been prevented in some cases when a vehicle was purposely driven between a bison and a downed human. Occasionally a charge was followed by a very brief period of tree-thrashing, snorting, foot-stomping, or rolling on the ground; this was reported in only 3 of the 38 cases. During an unusually long encounter that lasted about an hour, a bison charged a snowmobile and chased it 4 times for distances of up to 50 yards.

Covotes

The earliest record we found of coyote/human interactions that possibly involved food-begging occurred in Mammoth Campground, where a coyote bit a woman in 1981 and a ranger shot the coyote. The next record is in 1990, when a coyote attacked a man who was skiing at Old Faithful; the coyote bit him several times in the face and legs before he used a ski to beat off the coyote. The coyote was shot by a ranger. Between 1990 and 1999, there were 54 cases of coyote/human interactions. Fifteen of these cases involved intentional feeding of coyotes by humans, and 16 cases involved physical contact between coyotes and humans. Eight cases resulted in injuries to humans, but no fatalities.

Injuries included coyote bites to arms (3), legs (2), face (1), back (human sitting) (1), and unspecified (2). Injuries were to adult human males (4), adult human females (3), and one injury to a child (sex not specified). At least 2 coyote/human interactions have been reported each year since 1990, with an average of 5 incidents per year. Maximum numbers occurred in 1990 and 1998 (8 incidents each year). There is no apparent trend in the frequency of these incidents.

Elk

In February 1991, at Mammoth campground, a bull elk hooked an antler under a tent rope, ran off dragging the tent, and then left the area.

In June 1992, an adult male employee walking on the Old Gardiner Road was "forced" into a bush by an adult elk of unreported gender.

In July 1990, in Upper Geyser Basin, 3 male and female adult visitors were walking on the boardwalk when charged from distances of 2-10 feet by a cow elk that struck out with her front hooves. Her calf was in nearby grass. No injuries occurred.

Moose

In July 1987, at Canyon Village, a child ran screaming toward a cow moose and her calf. The cow moose kicked the child, then left the area. The child received 8 stitches.

In February 1993, a snowmobiler tried to pass a bull moose that had a broken front leg. The moose charged the snowmobile and made contact with it. The snowmobiler was not injured. The moose was shot by a ranger.

Mountain Lions

In 1998, a camper at Lower Blacktail reported that two adult mountain lions circled his campsite, blocked his path when he tried to leave, and remained in the area for 6 hours until he packed up and left.

Red Foxes

Food-begging by red foxes was reported in 1996 (4 cases) and 1997 (1 case), at Grant, Old Faithful, Tower Falls, and West Thumb. All of these occurred in developed areas, no physical contact occurred, and no injuries resulted. In two incidents, the fox was live-trapped, ear-tagged, and relocated; another did not respond to pepper spray. One fox was shot by a ranger after many reports of its' begging for food from visitors and employees.

Ground Squirrels

In 1998, there was one incident of visitors feeding ground squirrels (unspecified location).

Bat

In 1999, at Fishing Bridge, a bat flew into a visitor's car and bit him as he was getting out of his car.

Pine Marten

A pine marten jumped on a visitor when she tried to separate the marten from her dog. No injuries; marten trapped by ranger, and marten died, tests showed distemper.

Ravens

In 1999, a visitor (unspecified location) was fined for feeding a raven.

Bull Snakes

In 1999, at Mammoth, a visitor was fined after he killed a bull snake by throwing it against a cabin.

The following tables provide further details on these and other incidents.

BISON

Year 1999	Bison 1	Bison 2 #922041	Bison 3 #992364	Bison 4 #990246	Bison 5 #993575	Bison 6 #993159
Day	249	178	182	196	211	202
Time of day						
Location type	roadside	paint pots area	cabins area	telephone booth		sidewalk
Location area	south end Madison S curves. Grand Loop Road	Fountain Paint Pots	Canyon cabins	Canyon	Lake Lodge	Old Faithful
Human activity	approached bison	photography	photography	using phone	running from bison, tripped & fell	walking on sidewalk
# of people	5	1	1	11	1	1
Distance to animal	8 feet	3 feet	15 yards			
Contact made?	no	yes	yes	no	no	yes
Extent of injury	none	none reported but limped away	none reported;	none	none	small contusion on back of head; bison also stepped on his finger
Human gender		male	male	female	male	male
Human age class	adults	adult	adult	adult	adult	adult
Human category	visitors	visitor	visitor	visitor	visitor	visitor
Animal sex	bull bison (3)	bull bison	bull bison		bull bison	
Animal age class	adults	adult	adult	adult	adult	adult
Animal behavior	grazing			butted phone booth	"bluff- charged", no contact with man	knocked man down
Animal reaction after incident		tossed man into parked car	man lying down to photo bison, trampled man on chest, "sat" on him			
NPS mgmt. action	park ranger warned them of danger, \$25.00 fine					

BISON

Year 1998	Bison 1 #980794	Bison 2 #982399	Bison 3 #982404	Bison 4 #982533	Bison 5 #982670
Day	122	188	188	192	197
Time of day	18:05 p.m.	5:38 a.m.	19:20 p.m.	20:00 p.m.	21:15 p.m.
Location type		cabin area		cabin area	cabin area
Location area	Old Faithful Inn	Canyon cabins A-loop	Old Faithful	Canyon cabins A-loop	Canyon cabins F-loop
Human activity	walking	photography	sightseeing	walking	returning to cabin
# of people	1	1	several, 1 person injured	2	3, 1 injured
Distance to animal	30 feet	20 feet			25 feet
Contact made?	yes	yes	yes	yes	yes
Extent of injury	minor bruising, slight horn laceration to thigh	gored in thigh, landed on head, lost consciousness	struck woman in back	1 woman scraped knees; other one not injured	broken elbow, deep laceration to thigh
Human gender	female	female	female	females	male/female
Human age class	adult	adult	adult	adults	adults
Human category	visitor	visitor	visitor	visitors	visitors
Animal sex	bull bison	bull bison	bull bison		bull bison
Animal age class	adult	adult	adult	adult	adult
Animal behavior	false-charged, then gored, circled woman	charged when camera flash went off, flipped woman into the air	wallowing, thrashing trees, charged several groups of people, chased them around trees	2 bison running, one knocked 1 woman to her knees, from behind	grazing next to cabin, charged, threw man approx. 15' into the air
Animal reaction after incident	left when vehicle was driven between them to removed injured woman		walked away after incident		butted tree next to man, pawed ground, walked 10-20' away & resumed grazing
NPS mgmt. action	visitor drove vehicle between woman & bison				

BISON

Year 1997	Bison1 #972691	Bison 2 #975209
Day	198	298
Time of day	6:50 a.m.	9:45 a.m.
Location type	cabin area	dormitory area
Location area	Canyon AMFac cabins, H section	Lupine Dorm, Old Faithful
Human activity	photograpy	walking
# of people	1	1
Distance to animal	10-15 feet	15 feet
Contact made?	yes	yes
Extent of injury	fractured rib and pneumo thorax	scraped arms
Human gender	female	female
Human age class	adult	adult
Human category	visitor	visitor
Animal sex	bull bison	bull bison
Animal age class	adult	adult
Animal behavior	grazing, charged, threw her in air, head-butted her back down when she tried to get up	snorted, charged, hit her from behind, knocked her down
Animal reaction after incident	chased away	snorted then walked away
NPS mgmt. action	crowd chased bison away	

BISON

Year 1996	Bison 1 #963164
Day	207
Time of day	
Location type	campground
Location area	Bridge Bay CG
Human activity	standing by restroom
# of people	1
Distance to animal	10 yards
Contact made?	yes
Extent of injury	
Human gender	male
Human age class	11 year old child
Human category	visitor
Animal sex	
Animal age class	adult
Animal behavior	grazing, unprovoked, charged & knocked boy about 5 feet
Animal reaction after incident	immediately left area
NPS mgmt. action	

BISON

Year 1995	Bison 1 #950879	Bison 2 #950273
Day	134	9
Time of day	12:30 p.m.	
Location type	geyser basin	roadway
Location area	Grotto Geyser, Old Faithful	near Canyon
Human activity	jogging	snowmobile passing bison going in same direction
# of people	1	1
Distance to animal	20 feet	"next to roadway"
Contact made?	yes	yes, with snowmobile
Extent of injury	head laceration & other injuries, not gored	no human injuries
Human gender	female	
Human age class	adult	
Human category	TWS employee	visitor
Animal sex	cow bison	bull bison
Animal age class	adult with newborn calf	adult
Animal behavior	charged, hit woman with hooves after she fell, hit her on back	charged passing snowmobile, hit food container, chased it about 50 yds; chased snowmobile 3 more times (encounter lasted about 1 hour)
Animal reaction after incident	walked away	bison left the road
NPS mgmt. action		

BISON

Year	Bison 1 #944534	Bison 2 #941000	Bison 3 #941686	Bison 4 #94015	Bison 5 #942319	Bison 6 #943837
1994						
Day	295	142	175	210	193	237
Time of day	11:50 p.m.	2:50 p.m.	9:00 a.m.			4:30 a.m.
Location type		front of hotel	camp-ground	geyser basin	campground	trail
Location area	Old Faithful	Lake Hotel	Bridge Bay CG	West Thumb	Bridge Bay CG	Lake: south of Osprey dormitory
Human activity	listening to music on walkman radio	photography	photography	sitting at picnic table	walking	walking. saw bison on trail. ran
# of people	1	1	1	2	1	1
Distance to animal		10-15 feet	8-10 feet	100 yards	10-12 feet	contact
Contact made?	yes	yes	yes	no	yes	yes
Extent of injury		severe puncture to upper right thigh. injured right wrist	scratches, bruises, abrasions to upper left inner thigh	none	butted in upper back	butted in back. no injuries reported
Human gender	male	male	female	male/female	female	male
Human age class	adult	adult	adult	adults	adult	adult
Human category	visitor	visitor	visitor	visitor	visitor	employee
Animal sex		bull bison	bull bison	bull bison	bull bison	
Animal age class	adult	adult	adult	adult	adult	adult
Animal behavior	approached, knocked down visitor, stood over him briefly	grazing then charged, butted man into air from behind	approached, butted, tossed her into air	wallowing, ran toward picnickers, butted trees where people hid	approached from rear, bison turned, butted her in upper back, tossed her 8-10' in air	walking same trail as employee, butted him in the back
Animal reaction after incident	left the area			walked away, started grazing	walked away	
NPS mgmt. action			park rangers watched for 5 ½ hrs, monitored it for 4 days. no more problems	patrol car siren stopped bison from circling trees & visitors		

BISON

Year	Bison 1	Bison 2	Bison 3
1993	#931394	#931729	#931904
Day	171	187	193
Time of day	7:00 p.m.	3:55 p.m.	11:20 a.m.
Location type	parking lot	overpass	road junction
Location area	Old Faithful Inn	Old Faithful	Fishing Bridge
Human activity	visitor ran to bison's head "and petted or grabbed a tuft of hair on its forehead"	photography	photography
# of people	1	1	1
Distance to animal	within 8 feet of bison's head	2 feet	20 feet
Contact made?	yes	yes	yes
Extent of injury	2 inch wound in posterior right thigh	visitor gored twice: right leg & upper left chest	none reported
Human gender	female	male	male
Human age class	adult	adult	adolescent
Human category	visitor	visitor	visitor
Animal sex	bull		
Animal age class	adult	adult	adult
Animal behavior	bison hit her as she turned away, lifted her into air	bison stopped grazing, stamped & shook head, gored visitor & threw him on its back, gored visitor again when twisting to get man off its back	grazing, bison charged, threw boy into air, shirt torn
Animal reaction after incident	returned to grazing	ran across road and away	
NPS mgmt. action			

BISON

Year 1992	Bison 1 #921072	Bison 2 #921397	Bison 3 #922577
Day	154	169	210
Time of day	10:51 a.m.	7:15 p.m.	7:30 p.m.
Location type	geyser basin		picnic area
Location area	West Thumb geyser basin	Bridge Bay	Cascades
Human activity	watching bison	approached bison	picnicing
# of people	large group, 1 injured	several	2
Distance to animal	20 feet	15 feet	30 feet
Contact made?	yes	yes	yes
Extent of injury	gored in back of right thigh	abrasions & contusions in groin area	1 visitor had abrasion to arm, puncture wound to right thigh
Human gender	male	male	females
Human age class	adult	adult	adults
Human category	visitor	visitor	visitors
Animal sex	bull	bull bison	
Animal age class	adult	adult	adult
Animal behavior	bison charged, one man hid behind small tree; bison threw him 15' in air & he landed in tree	bison charged & tossed man in the air	drinking in Yell. R., chased people around trees, hit one as she reached her car
Animal reaction after incident	resumed grazing		
NPS mgmt. action	bison had been been aggressive throughout winter & was later destroyed		

BISON

Year 1991	Bison 1 #910900	Bison 2 #911401	Bison 3 #911517	Bison 4 #911926	Bison 5 #912221	Bison 6 #912453
Day	147	173	180	190	194	204
Time of day	9:45 a.m.	7:50 p.m.	7:50 p.m.	10:15 a.m.		
Location type	walkway		store	dormitory	store steps	
Location area	West Thumb geyser basin	Lake Lodge	Hamilton store at Lake	Ham. dormitory at Lake	Ham. store at Lake	Lake Lodge
Human activity	walking	teased bison, provoked attack	reportedly feeding bison grass	going to do laundry. did not see nor provoke bison	sitting on store steps	no humans involved
# of people	1	1	1	1	1	
Distance to animal	15 feet	"less than a foot"	15 feet	6 feet		
Contact made?	yes	yes	yes	yes	no	
Extent of injury	gored above hip in lower back area		gored in upper right thigh & abdomen	deep laceration to thigh, fractured clavicle & right humer us, head laceration	none	
Human gender	female	male	female	female	male	
Human age class	adult	adult	adult	adult	adult	
Human category	visitor	visitor	visitor	employee	employee	
Animal sex	bull bison	bull bison	bull bison	bull bison	bull bison	
Animal age class	adult	adult	adult	adult	adult	adult
Animal behavior	bison charged, knocked her down, then ran 20 yards	threw man in the air, stood over him but did not attack again	charged, threw woman in the air	charged from behind fire escape	bison charged but did not contact employee	butting trees, then charged parked car, dented, pierced & scratched it
Animal reaction after incident	began to graze	walked away shortly after incident	moved 10 feet away & resumed grazing		bison started to graze	
NPS mgmt. action	bison marked with paint gun	man arrested for disorderly conduct, wildlife harassment, public intoxication				

BISON

Year 1990	Bison 1 #901081	Bison 2 #901342	Bison 3 #901417
Day	156	163	172
Time of day	11:40 a.m.		
Location type	exit road		geyser area
Location area	Old Faithful		Old Faithful
Human activity	photography	returning from fishing	photography, waving shirt
# of people	1	1	1
Distance to animal	11-17 yards	120-150 feet	6 feet
Contact made?	yes	no	yes
Extent of injury	minor injuries	none	puncture wound, right side
Human gender	male	male	female
Human age class	adult	adult	adult
Human category	visitor	visitor	visitor
Animal sex	bull	bull bison	
Animal age class	adult	adult	adult
Animal behavior	moved toward visitor, shook its head, pushed man down & rolled him	bison charged man	approached woman, knocked her down
Animal reaction after incident	returned to grazing	stayed nearby for 5 minutes	continued walking in same direction
NPS mgmt. action			

BISON

Year 1989	Bison 1 #891883	Bison 2 #892121	Bison 3 #893957	Bison 4 MVA 890022
Day	181	189	245	37
Time of day	night			
Location type	trail between lodge & hotel	meadow north of Lake Hotel	creek bridge	roadway
Location area	Lake Lodge	Lake Hotel	Pelican Creek	
Human activity	walking	threw rock at bison to make it move for a better picture of him & bison	harassed bison with a stick; visitor intox- icated	intoxicated snowmachine driver ran into bison lying in the road
# of people	1	1	1	1
Distance to animal	too close	10 feet		contact with snowmachine
Contact made?	yes	yes	no	yes
Extent of injury	minor abrasions & contusions	bruises to both hips, possible fracture to right wrist	none	visitor killed on impact
Human gender	male	male	male	male
Human age class	adult	adult	adult	adult
Human category	Ham store employee	visitor	visitor	visitor
Animal sex				
Animal age class	adult	adult	adult	adult
Animal behavior	person too close, bison knocked him down	bison charged, throwing visitor into the air	bison did not charge or hurt the visitor	bison lying in roadway
Animal reaction after incident				bison not injured
NPS mgmt. action			visitor kept overnight at Lake Hospital for observation	

BISON

Year 1988	Bison 1 #882762	Bison 2 ##881921	Bison 3 #882348	Bison 4 #882600
Day	218	192	203	213
Time of day				
Location type	trailhead		campground	TWS dorm area
Location area	Elephant Back trailhead, Lake area	½ mile south of Canyon Junction	Bridge Bay CG	TWS Bighorn Dorm. Canyon Village
Human activity	photography	visitor walked within 10' of bison	photography; approached the bison	walking south side of dorm
# of people	1	1	1	1
Distance to animal	10 feet	10 feet	5 to 12 feet	30 feet when animal first seen
Contact made?	yes	yes	yes	no
Extent of injury	3 left ribs broken	puncture wound to lower buttock area	gored in the outer right thigh	employee fell when running from bison; right elbow injured
Human gender	male	female	male	male
Human age class	adult	adult	adult	adult
Human category	visitor	visitor	visitor	TWS employee
Animal sex		bull		
Animal age class	adult	adult	adult	adult
Animal behavior	bison charged, tossed visitor 10' into the air, bison butted trailhead sign then stopped	walked towards then charged visitor as she ran from him; tossed her 6' into the air	bison charged visitor, gored him, then lifted him 6-12' into the air	bison came toward employee then charged about 10' and stopped
Animal reaction after incident	bison walked away & started grazing	bison returned to grazing	bison went back to grazing	bison moved off in opposite direction
NPS mgmt. action				

BISON

Year 1987	Bison 1 #873495	Bison 2 #873630	Bison 3 #870710	Bison 4 #870980	Bison 5 #871068	Bison 6 #871200
Day	250	257	148	164	167	173
Time of day						
Location type	meadow	store area	meadows entrance	horse corrals	in front of lodge	campground
Location area	South of Canyon Jct. on west side of the road	upper Ham Store, Old Faithful area	entrance to Gibbon Meadows dump road, Old Faithful area	Canyon TWS horse corrals	Lake Lodge	Bridge Bay CG, C loop, Lake area
Human activity	watching bison roll in the dirt		photography, too close	on horseback	photography	tried to feed grass to bison
# of people	1	1	1	13	1	1
Distance to animal					10 feet	
Contact?	yes	no	yes	no	yes	yes
Extent of injury	gored – no details	not reported	not reported	none	not stated but needed medical transport	gored
Human gender	male	male	male	males/females	male	male
Human age class	adult	adult	adult	adults/kids	adult	12-year old boy
Human category	visitor	visitor	visitor	visitors	visitor	visitor
Animal sex				bull		
Animal age class	adult	adult	adult	adult	adult	adult
Animal behavior	rolling in dirt, stood up, charged and gored visitor	bison charged but did not make contact	bison charged and hit him	bison charged people mounted on horses then stopped	bison charged then gored visitor	charged & gored while trying to be hand fed
Animal reaction after incident				began to graze		
NPS mgmt. action				head wrangler ran his horse just short of contact to stop bison	medical transport	provided medical transport

BISON

Year 1987 (continued)	Bison 7 #871241	Bison 8 #871220
Day	173	174
Time of day		
Location type	campground	
Location area	Madison CG. Loop C	
Human activity		photography
# of people	1	1
Distance to animal		8 feet
Contact made?	yes	no
Extent of injury	not reported	none
Human gender	male	male
Human age class		16 year-old boy
Human category	visitor	visitor
Animal sex		
Animal age class		
Animal behavior	visitors reported seeing a bison hit a visitor	bison charged but did not hit him
Animal reaction after incident		
NPS mgmt. action		

BISON

Year 1986	Bison 1 #860788	Bison 2 #860963	Bison 3 #861261	Bison 4 #861980
Day	164	173	183	205
Time of day				
Location type	near lake		picnic area	
Location area	Indian Pond. Lake area	Fishing Bridge	Firehole picnic area. Old Faithful	Buffalo Ford area
Human activity				
# of people	1	1	1	1
Distance to animal				
Contact made?	yes	yes	yes	yes
Extent of injury				
Human gender	male	male	male	female
Human age class	adult	adult	adult	adult
Human category	visitor	visitor	visitor	visitor
Animal sex				
Animal age class	adult		adult	adult
Animal behavior	gored visitor	gored visitor	gored visitor	gored visitor
Animal reaction after incident				
NPS mgmt. action				

BISON

Year 1985	Bison 1 #850832	Bison 2 #851133	Bison 3 #851613A	Bison 4 #851203	Bison 5 #851710
Day	166	178	194	180	197
Time of day					
Location type	cabin area		campground	near campground	
Location area	Lake Lodge Cabin H-1	West Entrance road, 2 miles east of Wildlife Exhibit	Bridge Bay CG between site #B-79 & restroom	from Madison R. to Madison Campground	2/10 mile south of Alum Cr., Lake area
Human activity				walking	
# of people	1	1	1	1	1
Distance to animal		contact			
Contact made?	yes	yes	yes	yes	yes
Extent of injury	gored	butted, severe bruises	gored	gored	gored
Human gender	11 year-old	female	male	male	female
Human age class	male	9 year-old	11 year-old boy	adult	17 year-old girl
Human category	visitor	visitor	visitor	visitor	visitor
Animal sex					
Animal age class	adult	adult	adult	adult	adult
Animal behavior	gored visitor	butted visitor	gored visitor	gored visitor	
Animal reaction after incident					
NPS mgmt. action					

BISON

Year 1985	Bison 6 #851733	Bison 7 #851737	Bison 8 #851821	Bison 9 #851906	Bison 10 #852018
Day	198	198	200	203	208
Time of day					
Location type				picnic area	
Location area	2 miles west of Madison Junct.	2.4 miles west of Madison Junct.	½ mile south of Fishing Bridge	1 mile south of Cascade picnic area	
Human activity					
# of people	1	1	1	1	1
Distance to animal					
Contact made?	yes	yes	yes	yes	yes
Extent of injury	gored	gored	visitor hit by bison; bystanders reported the incident; no medical help sought	gored	gored
Human gender	male	male	female	male	female
Human age class	adult	adult	adult	adult	14 year old girl
Human category	visitor	visitor	visitor	visitor	visitor
Animal sex					
Animal age class	adult	adult	adult	adult	adult
Animal behavior	gored visitor	gored visitor	charged & hit visitor	gored visitor	gored visitor
Animal reaction after incident					
NPS mgmt. action					2 nd incident by same bison; bison shot by ranger at Bridge Bay CG.

BISON

Year 1984	Bison 1 #844002	Bison 2 #844128	Bison 3 Lake Log. no #	Bison 4 #842624	Bison 5 #842888	Bison 6 #842944	Bison 7 #843026
Day	243	253	206		212	213	213
Time of day		0805	0945				0825
Location type							
Location area	Hayden Valley, Lake area	Bridge Bay CG, A Loop, site 43	Old Faithful area	Old Faithful Hams store	Fountain Flats, Old Faithful area	Bridge Bay CG, B Loop, Lake area	Bridge Bay CG, Lake area
Human activity						running from bison	
# of people	1	2	1	1	1	1	2
Distance to animal							
Contact made?	yes	yes	yes	yes	yes	no	yes
Extent of injury	gored	both visitors gored	injured, no details	injured, no details	gored	none caused by bison	both visitors gored
Human gender	male	male/female	male	male	male	male	male/female
Human age class	15 year old	adults	adult	adult	adult	adult	adults
Human category	visitor	visitors	visitor	visitor	visitor	visitor	visitors
Animal sex							
Animal age class	adult	adult	adult	adult	adult	adult	adult
Animal behavior	gored visitor	gored visitors	injured visitor	butted visitor	gored visitor	charged because kids threw rocks at it	gored visitors
Animal reaction after incident							
NPS mgmt. action							

BISON

Year 1984	Bison 7 Lake Log. no #	Bison 8 #840243
Day	243	33
Time of day	2105	
Location type		roadway
Location area	near Sulfur Caludron	Canyon area
Human activity		ran into bison with snowmobile
# of people	1	1
Distance to animal		
Contact made?	yes	yes
Extent of injury	gored as reported by Lake Hospital	broken arm. bison not injured
Human gender	male	male
Human age class	adult	adult
Human category	visitor	visitor
Animal sex		
Animal age class		adult
Animal behavior	gored visitor	not injured
Animal reaction after incident		
NPS mgmt. action		

BISON

Year 1983	Bison 1 #831091	Bison 2 #831192	Bison 3 #832637	Bison 4 Lake Log	Bison 5 #832791	Bison 6 #831253	Bison 7 #831261
Day	170	174	220	225	225	172	177
Time of day			1920	2230			
Location type	camp-ground	store area	dormitory area			camp-ground	developed area
Location area	Madison CG site 40	Old Faithful lower Hams store	Osprey dorm. Lake area	Lake hospital reported incident	Buffalo Ford. Lake area	Madison CG	Old Faithful
Human activity			walking on footpath	too close to bison			
# of people	1	1	1	1	1	1	1
Distance to animal							
Contact made?	yes	yes	yes	yes	yes	yes	yes
Extent of injury	not reported	not reported	bruised sternum	injured	injured	injured	injured
Human gender	female	male	female	male	male	male	male
Human age class	adult	adult	9 year old	adult	adult	adult	adult
Human category	visitor	visitor	visitor	visitor	visitor	visitor	visitor
Animal sex							
Animal age class	unknown	unknown	unknown	unknown	unknown	unknown	unknown
Animal behavior	knocked down & injured visitor	knocked down & injured visitor	butted visitor	bison charged & injured visitor	charged & injured visitor	injured visitor	charged & injured visitor
Animal reaction after incident							
NPS mgmt. action							

BISON

Year 1983 (cont)	Bison 8 #831605	Bison 9 #831712	Bison 10 #831921	Bison 11 Lake Log	Bison 12 Lake Log	Bison 13 Lake Log	Bison 14 #832371
Day	188	192	199	208	210	212	212
Time of day		1630		1100	1400	1430	
Location type	store area	camp-ground	camp-ground	camp-ground	junction	hiking trail	
Location area	Old Faithful lower Hams store	Bridge Bay CG loop D	Bridge Bay CG site D-12	Fishing Bridge CG	Fishing Bridge Junction	Uncle Tom's Trail, Canyon	7 miles south of Canyon Jct., Hayden Valley
Human activity						hiking	
# of people	1	1	1	several	1	1	1
Distance to animal							
Contact made?	yes	yes	yes	no	yes	yes	yes
Extent of injury	not reported	gored	injured	none reported	knocked down	gored	injured; died 4 wks later from the injuries
Human gender	male	female	female	males/females	female	male	male
Human age class	adult	11 year old	16 year old	adults/kids	kid		20 year old
Human category	visitor	visitor	visitor	visitors	visitor	visitor	visitor
Animal sex							
Animal age class	unknown	unknown	unknown	unknown	unknown	unknown	unknown
Animal behavior	charged & injured visitor	charged & gored	charged & injured visitor	bison charging people	bison knocked girl down	gored visitor	charged & injured visitor
Animal reaction after incident				bison calmed down later			
NPS mgmt. action				park ranger kept watch during the day			

BISON

Year 1982	Bison 1 #810682	Bison 2 #821268	Bison 3 #821433	Bison 4 #821503	Bison 5 #822936
Day	170	196	201	203	259
Time of day					
Location type	store area		cabin area		camp- ground
Location area	Old Faithful lower Hams store	between Alum & Trout Crks., Canyon area	Canyon cabin area	near Mud Volcano, Lake area	Bridge Bay CG Lake area
Human activity			running from bison & fell		
# of people	1	1	1	1	1
Distance to animal					
Contact made?	no	yes	no	yes	yes
Extent of injury	none	injured	bruised from fall	injured	injured
Human gender		male	male	male	male
Human age class		adult	adult	adult	adult
Human category	visitor	visitor	visitor	visitor	visitor
Animal sex					
Animal age class	unknown	unknown	unknown	unknown	unknown
Animal behavior	confronta- tion but no injuries	injured visitor	chased visitor but did not touch him	injured visitor	injured visitor
Animal reaction after incident					
NPS mgmt. action					

No bison/human incident reports for years 1981 – 1979.

BISON

Year 1978	Bison 1 News release 78-4	Bison 2 News release 78- 50	Bison 3 #783068
Day	54	215	277
Time of day			
Location type	ski trail		cabin area
Location area	Lone Star Geyser Basin, Old Faithful	Hayden Valley	Old Faithful Snowlodge cabins area
Human activity	skiing	photo- graphy	photo- graphy
# of people	1	1	1
Distance to animal			10 feet
Contact made?	yes	yes	yes
Extent of injury	minor injuries	serious injuries	gored in buttock
Human gender	male	male	male
Human age class	adult	adult	adult
Human category	visitor	visitor	visitor
Animal sex			
Animal age class	unknown	unknown	unknown
Animal behavior	inflicted minor injuries on visitor	inflicted serious injuries	charged & gored visitor in buttock
Animal reaction after incident			
NPS mgmt. action			

No bison/human incidents reported for 1973, 1970, 1968-66. Incident records begin in 1963.

BISON

Year	1974 per M. Meagher records	1972 per M. Meagher records	1971 per M. Meagher records	1969 per M. Meagher records	1964 &/or 1965 per M. Meagher records	1963 per M. Meagher's records
Day						
Time of day						
Location type			geyser basin			
Location area	Mud Volcano		Lower Geyser Basin off Fountain Flats Freight road			
Human activity			photography			
# of people	1	1	1	1	2 separate cases of people being injured by bison	1
Distance to animal						
Contact made?	yes	yes	yes	yes	yes	yes
Extent of injury	gored	none recorded	gored & killed instantly	gored	injured	gored
Human gender	male	male	male			
Human age class	adult	12 year old	adult			
Human category	visitor	visitor	visitor			
Animal sex						
Animal age class	unknown	unknown	unknown	unknown	unknown	unknown
Animal behavior			gored & killed visitor			
Animal reaction after incident						
NPS mgmt. action						

COYOTES

Year 1999	Coyote 1	Coyote 2	Coyote 3	Coyote 4	Coyote 5	Coyote 6
Day	105	221	221	182	183	214
Time of day						
Location type	roadway	picnic area	parking lot	picnic area	picnic area	picnic area
Location area	Tower R.S.	Virginia Cascades	Norms Geyser Basin	Virginia Cascades	Virginia Cascades	Virginia Cascades
Human activity	jogging with dog	park ranger on road patrol	visitors reported begging coyote	wife & kids waiting. husband fishing	feeding habituated coyote	visitor reported begging coyote on picnic table
# of people	1	1		4	several	1
Distance to animal				5-10 feet	3-4 feet	20 feet
Contact?	no	no	no	no	no	no
Extent of injury	none	none	none	none	none	none
Human gender	female	male		female, 3 males	males/females	
Human age class	adult	adult		adult, 3 kids	adults, kids	adult
Human category	park ranger	park ranger		visitors	visitors	visitor
Animal sex						
Animal age class	adult	adult	adult	adult	adult	adult
Animal behavior	approached & followed jogger	habituated coyote begging for food	habituated coyote begging food	grabbed & tried to eat ball they were playing with	approached & took food from hands	habituated coyote on picnic table
Animal reaction after incident	finally left	coyote left the area, returned several days later		ran off a short distance, returned, then left		ran off
NP mgmt action	rocks thrown but coyote stayed out of range, not hit	park ranger shot it with BB gun		park ranger shot it with BB gun	park ranger reported several similar incidents week of 7/26/99	park ranger shot coyote with BB gun

COYOTES

Year 1998	Coyote 1 #983347	Coyote 2 #983150	Coyote 3 #983417	Coyote 4 #983472	Coyote 5 #981999	Coyote 6 #980014	Coyote 7 #980015	Coyote 8 #980016
Day	208	210	212	216	175	197	1	33
Time of day								
Location type	Yell. Lake beach	sand	picnic table	picnic area		warming hut	gasoline pumps	
Location area	Yellowstone Lake	Pumice Point		north of Pumice Point		Indian Creek	Grant Village	Canyon
Human activity	lying on beach	sitting on sand	sitting at table	ranger on road patrol	tranquilize coyote	resting	refueling snowmobile	aversive conditioning
# of people	1	1	1	13	1	several	1	several
Distance to animal	contact	contact	contact	15 yards			6-8 feet	
Contact?	yes	yes	yes	no	no	no	no	no
Extent of injury		bitten on upper left arm	none	none	none	none	none	none
Human gender	female	female	female	male	male	males/female	male	males
Human age class	adult	adult	adult	adult	adult	adults	adult	adults
Human category	visitor	visitor	visitor	park ranger	park ranger	visitors	park ranger	park ranger, employees
Animal sex								
Animal age class	adult	adult	adult	adult	adult	adult	adult	2 adults
Animal behavior	coyote came out of the bushes, bit her on thigh	bit upper left arm, coyote charged her 2 more times	coyote grabbed shirt & held on, did not bite	not afraid of ranger, licked picnic table	habituated coyote ate meat with tranquilizing capsules	walking with head down, drooling	approached, sat down, watched ranger	habituated coyotes
Animal reaction after incident	ran off after being screamed at			coyote shot	went away	left the area	stayed in area	stayed in area
NPS mgmt action	visitor screamed			ranger shot coyote	tracked but never found	ranger looked for but could not find it	shouted, threw snowballs; shot several weeks later	pepper sprayed, shot at with BB gun; 1 coyote shot 2/9/98

COYOTES

Year 1997	Coyote 1	Coyote 2 #971417	Coyote 3
Day	240	159	288
Time of day			
Location type	roadway	picnic area	bear trap
Location area		Lava Creek	Lamar Buffalo Ranch
Human activity	ranger on road patrol	visitors eating	visitor reported seeing coyote caught in bear trap
#of people	1	several	several
Distance to animal			contact
Contact?	no	no	yes
Extent of injury	none	none	none
Human gender	male	males/females	males
Human age class	adult	adults/children	adults
Human category	park ranger	visitors	coyote researchers
Animal sex			
Animal age class	adult	adult	adult
Animal behavior	begging on roadside	approached picnic table, ate food dropped on ground	coyote trapped by Crabtree coyote researchers
Animal reaction after incident	no reaction from stones thrown at it but did run off when sprayed with pepper spray	coyote remained in the area for awhile, then left	coyote held in trap for at least 4 hours; not an unusual trapping procedure according to Crabtree!
NPS management action	park ranger threw stones and used pepper spray	visitors left picnic area	legs tied together with electrical tape, mouth taped shut

COYOTES

Year 1996	Coyote 1 #965094	Coyote 2 #962713	Coyote 3 #962225	Coyote 4 #960016	Coyote 5 #960016	Coyote 6 #960074	Coyote 7 #950014
Day	245	196	185	147	26	12	365
Time of day							
Location type	roadway	fish cleaning station	residential area	parking lot/ roadway area	warming hut & residential area	warming hut	YCC area
Location area	East entrance road	Bridge Bay marina	lower Mammoth	Mud Volcano	Canyon	West Thumb geysir basin	Mammoth
Human activity	watching coyote	visitor cleaning fish	children outside	park ranger on patrol	visitors & employees observed 3 habituated coyotes begging, aggressive	resting at warming hut	park rangers observing elk carcass
# of people	2	1	2-3	2	several	several	2
Distance to animal		contact	4-5 feet		contact		10-25 feet
Contact?	no	yes	no	no	yes	no	no
Extent of injury	none	none	none	none	none	none	none
Human gender		male		male/female	male/female	male/female	male
Human age class	adults	adult	children	adults	adults	adults	adults
Human category	visitor	visitor	residents	park rangers	visitors , employees	visitors	park rangers
Animal sex							
Animal age class	2 adults	2 adults	adult	adult	3 adults	adult	adult
Animal behavior	habituated, somewhat aggressive	1 coyote ran off with fish thrown at it; 1 grabbed visitor pants leg, tore hole in it	followed children	habituated coyote begging	habituated, aggressive toward employee, damaged a snowmobile	approached, begging for food	coyoted boldly approached & remained close; rangers determined it to be habituated
Animal reaction after incident		both coyotes ran off a short distance	retreated when hit with slingshot pellets, walked toward Mammoth chapel	ran away after being hit by BBs,	2 coyotes left when shot with BB gun & wrist rocket, 1 damaged a snowmobile	moved away when pepper sprayed	coyote shot
NPS mgmt action		visitor threw fish, shouted	shot slingshot pellets & hit it	park ranger shot coyote with BB gun;	coyotes shot with BB gun & wrist rocket; 1 coyote dispatched 46 (2/15/96)	pepper sprayed coyote	

COYOTES

Year 1995	Coyote 1 #954491	Coyote 2 #953037	Coyote 3 #950037	Coyote 4 #950037	Coyote 5 #950037	Coyote 6 #952364	Coyote 7 #950093	Coyote 8 #950014
Day	262	212	213	213	213	35	8	2
Time of day								
Location type		meadow	trailhead	picnic area	pullout	roadway	residential area	ice rink area
Location area		Otter Creek	Mary Mt. TH	Otter Creek	Alum Creek	Geode Creek	Tower R.S.	Mammoth
Human activity	visitors looking for animals to photograph	sleeping in meadow	park ranger painting TH register	visitors picnicing, park ranger on patrol	sitting on ground	park ranger on road patrol	park volunteer retrieving research bait bag from pickup truck	ice skating
# of people	1	1	1	several	1	1	1	1
Distance to animal	"couple of feet"	contact	10 feet		contact			
Contact?	no	yes	no	no	yes	no	no	no
Extent of injury	none	bitten, 4 puncture wounds	none	none	nipped /scratched on right side of back	none	none	none
Human gender	male	male	male	males/ females	female	male	male	
Human age class	adult	adult	adult	adults/ children	adult	adult	adult	child
Human category	visitor	visitor	park ranger	visitors/ park ranger	visitor	park ranger	park volunteer	visitor
Animal sex								
Animal age class	adult	adult	adult	adult	adult	adult	adult	adult
Animal behavior	approached, carried off camera pack; 2 more coyotes came, followed visitor to car	approached, bit visitor's foot	approached, grabbed dropped paint brush	coyote approached, charged ranger when he sat down; coyote chased visitor's son into river	approached, sniffed/scratched right side of back	coyote "begging" along roadside	coyote dragged bait bag out of pickup, chased 1/4 mile & dropped bait bag	approached, not afraid
Animal reaction after incident	waited about 5 min., then left		ran off with paint brush	coyote ran when ranger shot at it but missed	ran off	coyote hit twice with slingshot, ran off	ran off	coyote left
NPS mgmt action			pepper spray used, coyote left	after positive ID coyote shot 8/11/95 (223)	visitor shouted	shot & hit coyote twice with slingshot	chased, shouted at	park ranger looked for but could not locate coyote

COYOTES

Year 1994	Coyote 1 #943771	Coyote 2 #950051
Day	234	2
Time of day		
Location type	river bank	roadway
Location area	Yellowstone River	Floating Island Lake
Human activity	2 kids playing near the river	park ranger on road patrol
# of people	2	1
Distance to animal	6 feet	2 feet
Contact?	no	no
Extent of injury	none	none
Human gender	male	male
Human age class	children	adult
Human category	visitors	park ranger
Animal sex		
Animal age class	adult	adult
Animal behavior	"stalked" the kids, watched them play	"begging" coyote, approached vehicle
Animal reaction after incident	ran off a short distance, lay down about 10 min., then came back	stayed nearby and didn't run after being hit 3 times with a slingshot
NPS management action	visitors shouted	park ranger used slingshot & hit coyote 3 times

COYOTES

Year 1993	Coyote 1 #930016	Coyote 2 #934214
Day	10	278
Time of day		
Location type	geyser basin	
Location area	Norris Geyser Basin	Elk Park
Human activity	park ranger walking trail	photographer & visitors taking pictures of coyote
# of people	1	several
Distance to animal	0-3 feet	200 yards
Contact?	yes	no
Extent of injury	none	none
Human gender	female	male/female
Human age class	adult	adults/children
Human category	park ranger	visitors
Animal sex		
Animal age class	adult	adult
Animal Behavior	coyote approached, grabbed at mitten on shoulder	walking, not concerned with people
Animal reaction after incident	coyote walked away	ran off
NPS management action	park ranger shot at & missed coyote; tracked coyote for 1.5 miles but didn't see it again	chased by photographer

COYOTES

YEAR 1992	Coyote 1 #929856	Coyote 2 #924803	Coyote 3 #924526	Coyote 4 #924412	Coyote 5 #900017	Coyote 6 #920017	Coyote 7 #920014
Day	354	360	289	276	181	180	147
Time of day							
Location type	trailhead	trail	roadway	survey worker on road	picnic area	roadway	campground
Location area	Specimen Ridge TH	Boiling River trail	Cub Cr. on E. entrance road			Biscuit Basin	Slough Creek CG
Human activity	park ranger on patrol	visitors walking on trail	photograph- ing wildlife	survey worker pounding stake	feeding coyote	visitors in parked car watching coyote	research team trying to dart & capture coyote
# of people	1	1	1	1	1	several	several
Distance to animal			contact	contact	6-10 feet	10 feet	contact
Contact?	no	yes	yes	yes	no	no	yes
Extent of injury	none	grabbed left forearm	bitten on lower right leg	bitten on upper left arm	none	none	none
Human gender	male	female	male	male	female	male/female	males
Human age class	adult	adult	adult	adult	adult	adults/child- ren	adults
Human category	park ranger	visitor	visitor	highway worker	visitor	visitors	park researchers
Animal sex							
Animal age class	adult	adult	adult	adult	adult	adult	adult
Animal behavior	approached patrol vehicle	ran at visitors grabbed bag	approached visitor, crawled under car	approached aggressively	habituated, unafraid of people	coyote standing in road, begging for food	nuisance coyote, begging in campground
Animal reaction after incident	coyote sniffed rocks shot at it; again approached vehicle	ran off 10' with bag, finally scared off, bag retrieved	bit visitor on lower right leg, climbed into car & ate food; walked very slowly & erratically	lunged at worker, back ed off 15', came back & lunged again	ate food, undisturbed by efforts to scare it off	not afraid of people	coyote darted, dosage not sufficient, it ran off
NPS mgmt action	used wrist rocket sling shot several times	visitors threw rocks & sticks, coyote scared off	park ranger shot coyote; tested negative for rabies	workers screamed, threw rocks, coyote scared off, left area	running, shouting, siren blaring, lights flashing had not effect; coyote left of own accord	coyote "persuaded" to leave by park ranger	coyote tracked for 3 hours, seen walking and appeared to be OK

COYOTES

YEAR 1991	COYOTE 1 #910191	COYOTE 2 #910016	COYOTE 3 #910016
Day	19	216	247
Time of day			
Location type	cage trap	turnout	residential area
Location area		between Grizzly Overlook & Trout Creek	
Human activity	researcher trying to check trap	visitors throwing food to coyote	woman walking 2 toy poodles
# of people	1	several	1
Distance to animal	contact		
Contact?	yes	no	no
Extent of injury	none	none	none
Human gender	male	male/female	female
Human age class	adult	adults/children	adult
Human category	park researcher	visitors	visitor
Animal sex			
Animal age class	adult	adult	2 adults
Animal behavior	lower jaw caught in trap	eating food tossed to it	approached aggressively, whined, snarled, bared teeth, crouched & stalked
Animal reaction after incident	ran off after it was released from trap	retreated 200 feet when ranger approached but remained in area	coyotes eventually left the area on their own
NPS management action	coyote wrapped in a tarp while wire cutters used to free it.	ranger hollered, waved arms	

COYOTES

Year 1990	Coyote 1 #903331	Coyote 2 #900017	Coyote 3 #900016	Coyote 4 #900016	Coyote 5 #900340	Coyote 6 #900016	Coyote 7 #900340	Coyote 8 #900054
Day	228	150	1	34	46	299	49	30
Time of day								
Location type	E.entrance road	residential area	parking lot	parking lot	snowmobile		snowmobile	ski trail
Location area	Sylvan L. Lake R.S.	Madison Jct.	Mud Volcano	Mud Volcano	Lake Butte	Fishing Bridge Jct.	Sedge Bay	O.F. Mystic Falls Trail
Human activity	picnicing, motorcycling	people working outside	sightseeing	ranger on patrol	riding snow-mobile	aversive condition by ranger	sitting on snomobile	skiing
# of people		several	several	1	1	1	1	1
Distance to animal		15-20 feet		5 feet	5 feet	20 feet	contact	contact
Contact?	yes	no	no	no	no	no	yes	yes
Extent of injury	bitten	none	none	none	none	none	none	bitten
Human gender		male/female	male/female	male	male	male	male	male
Human age class	child	adults	adults/child ren	adult	adult	adult	adult	adult
Human category	visitor	employees, visitors	visitors	ranger	ranger	ranger	ranger	employee
Animal sex								
Animal age class	adult	adult	adult	adult	adult	adult	adult	adult
Animal behavior	aggressive, begging food	ran & tried to eat rocks thrown at it	begging food	approached with bared teeth	standing in road	begging . ate food soaked in Repel	approached & nibbled on pants leg	charged, bit, continued its attack
Animal reaction after incident	ran when rocks thrown at it	begging food	not easily scared off	aggressive, ran when rocks thrown at it	not aggressive, not scared	no gastric distress apparent	ran after snowballs, did not leave	beaten off with ski
NPS mgmt action	rocks thrown to scare it off	shot 5/20/90	eventually leaves	2 cracker rounds fired at it by park ranger	threw snowballs	2 cracker rounds fired at it by park ranger	threw snowballs	shot by ranger #415

ELK

Year 1999	Elk 1	Elk 2	Elk 3
Day	255	282	282
Time of day			
Location type	ice house	visitor center	campground
Location area	Mammoth	Mammoth	Mammoth CG
Human activity	approached sleeping elk	truck driver stopped to let elk cross road	none.unoccu-pied tents
# of people	1	1	
Distance to animal	15 yards	10 yards	
Contact made?	no	no	no
Extent of injury	none	none	none
Human gender	male	male	
Human age class	adult	adult	
Human category	visitor	truck driver	visitors
Animal sex	cow & bull elk	bull elk	2 point bull elk
Animal age class	adults	adult	spike
Animal behavior	sleeping near ice house	charged & damaged truck	aggressive with other bulls, slashed 2 tents with antlers
Animal reaction after incident	bull watched visitor, cow standing in "alert posture"		(rutting season)
NPS mgmt.action			

ELK

Year 1998	Elk 1 #985014	Elk 2 #981552	Elk 3 #981688	Elk 4 #981545
Day	264	159	165	157
Time of day				
Location type	geyser trail	geyser basin	tent	residential area
Location area	Norris Geyser Basin	West Thumb geyser basin		Lower Mammoth
Human activity	walking	approached cow elk with calf	sleeping in tent	taking pictures
# of people	1	several	1	1
Distance to animal	3 meters			
Contact made?	no	no	no	no
Extent of injury	none	none	none	none
Human gender	male	males/females	male	male
Human age class	adult	adults/kids	adult	adult
Human category	visitor	visitors	visitor	visitor
Animal sex	bull elk	cow elk & calf		
Animal age class	adult	adult/calf	adult	adult
Animal behavior	charged visitor	cow elk charged visitors;calf stayed put	"scratched at tent" with hooves, damaged tent	walked toward visitor
Animal reaction after incident		cow & calf remained in geyser basin	ran off	kept on walking
NPS mgmt. action			visitor shouted	

ELK

Year 1997	Elk #975688
Day	288
Time of day	
Location type	
Location area	
Human activity	reported elk problem to park rangers
# of people	1
Distance to animal	
Contact mde?	no
Extent of injury	none
Human gender	male
Human age class	adult
Human category	visitor
Animal sex	bull elk
Animal age class	adult
Animal behavior	wire entangled in elk antlers
Animal reaction after incident	
NPS mgmt. action	park rangers tranquilized elk & removed wire from antlers

ELK

Year 1996	Elk 1 #965936	Elk 2 #965597	Elk 3 #965605	Elk 4 #961479
Day	290	275	242	162
Time of day				
Location type	campground	campground	meadow	nature store
Location area	Mammoth CG	Mammoth CG	in front of Mammoth Hotel	Mammoth
Human activity	camping but not at site at time of incident	camping but not at site at time of incident	approached elk as they were feeding	trying to enter store
# of people	1	1	1	several
Distance to animal			contact	
Contact made?	no	no	yes	no
Extent of injury	none	none	shook up	none
Human gender	male	male	female	males/females
Human age class	adult	adult	adult	adults
Human category	visitor	visitor	visitor	visitors
Animal sex	bull elk	bull elk	bull elk	cow elk
Animal age class	adult	adult	adult	adult
Animal behavior	tore up tent with antlers	damaged tent with antlers	charged, "touched" visitor with its antlers	charged visitors as they tried to enter store
Animal reaction after incident				ran off
NPS mgmt. action			visitor fell into steam vent, rescued by park rangers	park ranger clapped hands

THERE WERE NO ELK INCIDENTS

REPORTED FOR YEARS

1993

1994

1995

ELK

Year 1992	Elk #92172
Day	160
Time of day	
Location type	dirt road
Location area	Old Gardiner road
Human activity	walking
# of people	1
Distance to animal	
Contact made?	no
Extent of injury	none
Human gender	male
Human age class	adult
Human category	employee
Animal sex	
Animal age class	adult
Animal behavior	"forced" employee into a bush
Animal reaction after incident	
NPS mgmt. action	

ELK

Year 1991	Elk #910279
Day	36
Time of day	
Location type	campground
Location area	Mammoth campground
Human activity	watching elk
# of people	1
Distance to animal	
Contact made?	no
Extent of injury	none
Human gender	male
Human age class	adult
Human category	visitor
Animal sex	bull elk
Animal age class	adult
Animal behavior	biting tent cover, hooked antler under tent string
Animal reaction after incident	ran off dragging tent, then left area
NPS mgmt. action	visitor shouted, waved arms

ELK

Year	Elk
1990	#901780
Day	183
Time of day	
Location type	boardwalk
Location area	Upper geyser basin
Human activity	walking
# of people	3
Distance to animal	2-10 feet
Contact made?	no
Extent of injury	none
Human gender	females/males
Human age class	adults
Human category	visitors
Animal sex	cow elk
Animal age class	adult
Animal behavior	aggressive, charged, struck out with front hooves
Animal reaction after incident	remained in area (had calf in nearby grass)
NPS mgmt. action	

RED FOX

Year 1997	Fox
Day	191
Time of day	
Location type	dormitory area
Location area	Tower Falls Hamilton Stores dormitory
Human activity	feeding, trying to pet fox
# of people	several
Distance to animal	
Contact made?	no
Extent of injury	none
Human gender	males/females
Human age class	adults
Human category	visitors
Animal sex	
Animal age class	adult
Animal behavior	eating food fed by visitors
Animal reaction after incident	remained in area
NPS mgmt. action	tagged & transported out of area 3 times, it returned each time. Final release: 51 miles to southern part of park.

No Red Fox case incidents reported for years 1990-1995, 1998, 1999.

RED FOX

Year 1996	Fox 1 #965789	Fox 2 #963082	Fox 3 #960017	Fox 4 #960509
Day	282	203	176	74
Time of day				
Location type	trash packer	campground		parking lot
Location area	Grant area	Grant CG	Old Faithful	West Thumb geyser basin
Human activity		visitor report to park ranger	many reports re this habituated fox	visitor report to park ranger
# of people		1		1
Distant to animal				6 feet
Contact made?	no	no	no	no
Extent of injury	none	none	none	none
Human gender		male		male
Human age class		adult		adult
Human category		visitor	visitors, employees	visitor
Animal sex				
Animal age class	adult	adult	adult	adult
Animal behavior	habituated fox	eating garbage at campground	begged food from visitors & employees; ag- gressive toward dog	habituated, begging & eating food
Animal reaction after incident		scared off by park ranger, left the area		ran off when pepper sprayed
NPS mgmt. action	live trapped , ear tagged (#7706), released at Yell. Lake Promontory	scared fox off, cleaned up garbage	fox shot	pepper sprayed fox but remained in area

Wolves were reintroduced in Yellowstone in 1995; only one incident, shown below, has been reported.

WOLF

Year	Wolf
1999	
Day	127
Time of day	
Location type	
Location area	
Human activity	filming wolf activity
# of people	1
Distance to animal	150-200 yards
Contact made?	no
Extent of injury	none
Human gender	male
Human age class	adult
Human category	visitor
Animal sex	
Animal age class	
Animal behavior	unconcerned re human activity, not aggressive, not begging for food
Animal reaction after incident	unconcerned & remained in area
NPS mgmt. action	

MISCELLANEOUS CRITTERS

Year 1999	Bat	Raven	Dog	Dog	Bull Snake	Bighorn Sheep
Day	226	284	201	224	209	190
Time of day						
Location type	car	picnic area	RV park	campground	cabin area	roadway
Location area	Fishing Bridge Ham. store		Fishing Bridge RV park	Bridge Bay CG	Mammoth	Dunraven Pass
Human activity	exiting car	visitor fed raven so he could take its picture	visitor talking to RV occupant	tried to pet dog on a leash	picked up & threw snake away from cabin	feeding sheep popcorn
# of people	1	1	2	1	1	1
Distance to animal	contact		contact	contact	contact	
Contact made?	yes	no	yes	yes	yes	no
Extent of injury	bitten	none	bitten on leg. not serious	puncture wound	none	none
Human gender	male	male	males	female	male	female
Human age class	adult	adult	adults	adolescent	adult	adult
Human category	visitor	visitor	visitors	visitor	visitor	visitor
Animal sex						
Animal age class		adult	adult			
Animal behavior	flew in and bit person getting out of car	ate food visitor fed it	dog on leash but with enough slack to allow dog to bite visitor	dog on leash bit girl when she tried to pet it	snake was swung around & thrown where it hit another cabin	ate popcorn fed by visitor
Animal reaction after incident	bat caught by visitor & put in plastic bag		remained on leash	remained on leash	killed on impact	remained in road & blocked traffic
NPS mgmt. action	visitor took captured bat to Lake hospital	visitor fined \$100.00	no fault or blame by either party – no fine	no action taken	visitor fined \$100.00	visitor fined \$100.00

MISCELLANEOUS CRITTERS

Year 1998	Ground Squirrel #981669	Mountain Lions (2) #981786
Day	164	168
Time of day		
Location type	campground	campsite
Location area		Lower Blacktail
Human activity	lured squirrel with food, then tied it to fishing pole, let it run & reeled it back repeatedly	reading
# of people	2	1
Distance to animal	contact	6-8 feet
Contact made?	yes	no
Extent of injury	none	none
Human gender	males	male
Human age class	adult, child	adult
Human category	visitors	visitor
Animal sex		
Animal age class	adult	adults
Animal behavior	ate food, captured with fish line attached to fishing pole	circled campsite, blocked path when he tried to leave, remained in area about 6 hours
Animal reaction after incident	released, ran off	finally left
NPS mgmt. action	visitors fined \$100.00	visitor packed up and left area

MISCELLANEOUS CRITTERS

Year 1996	Raccoon #966142	Year 1997 Great Gray Owl #975494	Year 1997 Porcupines #970014
Day	315	280	273
Time of day			
Location type	behind Ham. store	roadway	residential area
Location area	Old Faithful	Cascade Hill road	Northeast housing area
Human activity	watching raccoon	driving	reported property damage
# of people	1	1	
Distance to animal		contact	
Contact made?	no	yes	no
Extent of injury	none	none	none
Human gender	male	male	
Human age class	adult	adult	
Human category	park ranger	visitor	
Animal sex			
Animal age class	adult		3 porcupines
Animal behavior	eating, retreated into store basement	owl flew in front of vehicle, impacting passenger side front windshield	damaging property
Animal reaction after incident	live trapped	killed on impact	aversive conditioning not effective
NPS mgmt. action	live trapped & released at Goose Lake freight road		porcupines captured and released

No case incident reports for MISCELLANEOUS CRITTERS for years 1990-1992, 1994-1995.

MISCELLANEOUS CRITTERS

Year	Moose	Pine Marten
1993	#930373	#930017
Day	57	125
Time of day		
Location type	roadway	
Location area		
Human activity	snowmobiler tried to pass moose	visitor tried to separate pine marten & her dog
# of people	1	1
Distance to animal	contact	contact
Contact made?	yes (with snowmobile)	yes
Extent of injury	none	none
Human gender	male	female
Human age class	adult	adult
Human category	visitor	visitor
Animal sex		
Animal age class	adult	
Animal behavior	injured moose (broken front leg) charged snowmobile as it tried to pass	jumped on visitor, fell to ground "writhing, making biting motions & guttural sounds"
Animal reaction after incident	floundered in roadway	trapped by park ranger
NPS mgmt. action	shot by park ranger	trapped pine marten died; tests showed distemper

Day Numbers

Use the table below to determine the day number for a given date in a non-leap year.

For Leap years, use the Leap Day Numbers table.

After finding the Easter day number, one can determine Ascension (39 days after Easter) and Pentecost (49 days after Easter).

day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	32	60	91	121	152	182	213	244	274	305	335
2	2	33	61	92	122	153	183	214	245	275	306	336
3	3	34	62	93	123	154	184	215	246	276	307	337
4	4	35	63	94	124	155	185	216	247	277	308	338
5	5	36	64	95	125	156	186	217	248	278	309	339
6	6	37	65	96	126	157	187	218	249	279	310	340
7	7	38	66	97	127	158	188	219	250	280	311	341
8	8	39	67	98	128	159	189	220	251	281	312	342
9	9	40	68	99	129	160	190	221	252	282	313	343
10	10	41	69	100	130	161	191	222	253	283	314	344
11	11	42	70	101	131	162	192	223	254	284	315	345
12	12	43	71	102	132	163	193	224	255	285	316	346
13	13	44	72	103	133	164	194	225	256	286	317	347
14	14	45	73	104	134	165	195	226	257	287	318	348
15	15	46	74	105	135	166	196	227	258	288	319	349
16	16	47	75	106	136	167	197	228	259	289	320	350
17	17	48	76	107	137	168	198	229	260	290	321	351
18	18	49	77	108	138	169	199	230	261	291	322	352
19	19	50	78	109	139	170	200	231	262	292	323	353
20	20	51	79	110	140	171	201	232	263	293	324	354
21	21	52	80	111	141	172	202	233	264	294	325	355
22	22	53	81	112	142	173	203	234	265	295	326	356
23	23	54	82	113	143	174	204	235	266	296	327	357
24	24	55	83	114	144	175	205	236	267	297	328	358
25	25	56	84	115	145	176	206	237	268	298	329	359
26	26	57	85	116	146	177	207	238	269	299	330	360
27	27	58	86	117	147	178	208	239	270	300	331	361
28	28	59	87	118	148	179	209	240	271	301	332	362
29	29		88	119	149	180	210	241	272	302	333	363
30	30		89	120	150	181	211	242	273	303	334	364
31	31		90		151		212	243		304		365
day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Leap Day Numbers

day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	32	61	92	122	153	183	214	245	275	306	336
2	2	33	62	93	123	154	184	215	246	276	307	337
3	3	34	63	94	124	155	185	216	247	277	308	338
4	4	35	64	95	125	156	186	217	248	278	309	339
5	5	36	65	96	126	157	187	218	249	279	310	340
6	6	37	66	97	127	158	188	219	250	280	311	341
7	7	38	67	98	128	159	189	220	251	281	312	342
8	8	39	68	99	129	160	190	221	252	282	313	343
9	9	40	69	100	130	161	191	222	253	283	314	344
10	10	41	70	101	131	162	192	223	254	284	315	345
11	11	42	71	102	132	163	193	224	255	285	316	346
12	12	43	72	103	133	164	194	225	256	286	317	347
13	13	44	73	104	134	165	195	226	257	287	318	348
14	14	45	74	105	135	166	196	227	258	288	319	349
15	15	46	75	106	136	167	197	228	259	289	320	350
16	16	47	76	107	137	168	198	229	260	290	321	351
17	17	48	77	108	138	169	199	230	261	291	322	352
18	18	49	78	109	139	170	200	231	262	292	323	353
19	19	50	79	110	140	171	201	232	263	293	324	354
20	20	51	80	111	141	172	202	233	264	294	325	355
21	21	52	81	112	142	173	203	234	265	295	326	356
22	22	53	82	113	143	174	204	235	266	296	327	357
23	23	54	83	114	144	175	205	236	267	297	328	358
24	24	55	84	115	145	176	206	237	268	298	329	359
25	25	56	85	116	146	177	207	238	269	299	330	360
26	26	57	86	117	147	178	208	239	270	300	331	361
27	27	58	87	118	148	179	209	240	271	301	332	362
28	28	59	88	119	149	180	210	241	272	302	333	363
29	29	60	89	120	150	181	211	242	273	303	334	364
30	30		90	121	151	182	212	243	274	304	335	365
31	31		91		152		213	244		305		366
day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

USE FOR:

1956

1960

1964

1968

1972

1976

1980

1984

1988

1992

1996

2000

2004

Example: August 1 is the 214th day of a Leap year.

