

From: [Turner, Ed](#)
To: [Betty Grizzle](#)
Subject: Dens Table and Decade view
Date: Friday, January 20, 2017 6:26:14 PM
Attachments: [Dens All.xlsx](#)
[Den Map2.pdf](#)

Hi Betty, I spent quite a bit of time trying to combine information in the table into specific fields. I used the fields from the ID Fish and Game. I tried to force other data tables values into these fields, with having to make some assumptions. Ex. Jeff Copeland ID Sawtooth work was in the 1990's, so I calculated the date and year to just 1990.

Other fields, I'd look at the text description and try to say if location was visual, etc. We can talk and look at the fields, but I had to get some info in there so it would help a bit. We still have the source file name and the link to that source so we can look deeper if needed.

Note that all of the ID F&G data has no dates, but i was able to determine a few because they were also recorded in the USFS data.

If we don't have a date, I will just have to group those in their own Minimum Convex Polygon.

See map as those at the "+" symbol.

Hope this helps a bet.

Sorry the table is messy as the fields are long. I made the comments field 1500 spaces long, but may have actually lost some info. Will have to check the link's.

Ed

--

Edwin Turner, Geographer
GIS Mapping and Analysis Branch

DOI-R8-CFWO
USFWS Carlsbad Fish and Wildlife Office
2177 Salk Ave. Suite 250
Carlsbad, CA 92008
760.431.9440 x266

Ed_Turner@fws.gov
760.431.9440 x266

Common_Name

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

WOLVERINE

Directions
ELEVATION.

TRAIL 138; ELEVATION = 8300 FEET.

TRAIL 138; ELEVATION = 8300 FEET.

TRAIL 138; ELEVATION = 8300 FEET.

IN A TRIBUTARY OF WEST TARGHEE CREEK. HEINEMEYER'S REPORT PROVIDES A MAP SHOWING THE GENERAL LO
IN A TRIBUTARY OF WEST TARGHEE CREEK. HEINEMEYER'S REPORT PROVIDES A MAP SHOWING THE GENERAL LO
TRACKS LOCATED ON RIDGE BETWEEN CARMEN CREEK AND DAVIS CANYON, ABOUT 1.5 AIRLINE MILES WEST-SOI

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

NONE LISTED

NONE LISTED

NONE LISTED

NONE LISTED

1 KM NW OF MOUNT BALDY LOCATION UNCERTAINTY100M

4.3 KM SE OF THE TOWN OF BEAR DANCE LOCATION UNCERTAINTY = 800M

0.7 KM N OF BAREE LAKE LOCATION UNCERTAINTY100M

0.3 KM SW OF RUMBLE CREEK LAKE LOCATION UNCERTAINTY100M

SACAGAWEA PEAK, SADDLE NW OF PEAK LOCATION UNCERTAINTY100M

LOCATION UNCERTAINTY 1/4 MILE (QUARTER SECTION)

LOCATION UNCERTAINTY 1/4 MILE (QUARTER SECTION)

TIPSOO PEAK APPROX. 0.7MI NW OF TIPSOO PEAK

VICINITY OF MOUNT BARCROFT, IN THE WHITE MOUNTAINS. PRESUMED EXTANT 1 MILE

JUST NW OF TOEJAM LAKE, STANISLAUS NATIONAL FOREST. PRESUMED EXTANT 1/10 MILE

Observers

SCOTT LULA

BETH WATERBURY

BETH WATERBURY

BETH WATERBURY

KIMBERLY HEINEMEYER

KIMBERLY HEINEMEYER

STEPHEN KALTWASSER

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

JEFF COPELAND

NORMAN, BEN (UNKNOWN)

(MIGRATED), JIM MINEAU (UNKNOWN)

LULA, SCOTT (UNKNOWN), LEWIS, BOB (UNKNOWN)

WATERBURY, BETH (EXPERIENCED)

NORMAN, BEN

WOODS, D.

MINEAU, JIM

JOHNSON, KURT

BESS, JIM

STREAM, L/WDFW; MILLER, P/WDFW

FITKIN, S/WDFW

FARRELL, TERRY, RAY DAVIS AND BILL WOODS.

NONE LISTED

NONE LISTED

Person_Con	Verificati
UNCERTAIN BACKGROUND	POSSIBLE
BIOLOGIST, RESEARCHER OR TAXA EXPERT	TRUSTED
BIOLOGIST, RESEARCHER OR TAXA EXPERT	TRUSTED
BIOLOGIST, RESEARCHER OR TAXA EXPERT	TRUSTED
BIOLOGIST, RESEARCHER OR TAXA EXPERT	TRUSTED
BIOLOGIST, RESEARCHER OR TAXA EXPERT	TRUSTED
APPROVED OBSERVER BY DATA PARTNER	TRUSTED
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
RESEARCHER	FIELD WORK
UNKNOWN	VISUAL
UNKNOWN	VISUAL
UNKNOWN	TRACK
EXPERIENCED	IN HAND
NONE LISTED	VISUAL
NONE LISTED	VISUAL
NONE LISTED	VISUAL
NONE LISTED	VISUAL
NONE LISTED	VISUAL
NONE LISTED	VERIFIED METHC
NONE LISTED	VERIFIED METHC
NONE LISTED	VISUAL
NONE LISTED	VISUAL

NONE LISTED

VISUAL

Source_Age	DEN
IDAHO DEPARTMENT OF FISH AND GAME	1
IDAHO DEPARTMENT OF FISH AND GAME	1
IDAHO DEPARTMENT OF FISH AND GAME	1
IDAHO DEPARTMENT OF FISH AND GAME	1
NONE LISTED	1
NONE LISTED	1
NONE LISTED	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
JEFF COPELAND	1
WDFW SURVEY	1
WDFW SURVEY	1
NONE LISTED	1
NONE LISTED	1

NONE LISTED

1

FWS_SOURCE		FWS_DATE	DEN_TYPE	STRUCTURE
IFWIS_JULY2016_WOLVERINE	38	20060115	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	42	20080518	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	43	20080518	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	44	20080518	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	633	-9	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	634	-9	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	794	-9	NONE LISTED	NONE LISTED
GLACIER_DENS_84	1	20030400	NATAL	LOG COMPLEX
GLACIER_DENS_84	2	20030500	MATERNAL	LOG COMPLEX
GLACIER_DENS_84	3	20040400	NATAL	LOG COMPLEX
GLACIER_DENS_84	4	20040400	MATERNAL	DOWN LOG
GLACIER_DENS_84	5	20040500	MATERNAL	LOG/BOULDER
GLACIER_DENS_84	6	20050300	NATAL	SPIDER TREE
GLACIER_DENS_84	7	20050400	MATERNAL	SPIDER TREE
GLACIER_DENS_84	8	20050500	MATERNAL	SPIDER TREE
GLACIER_DENS_84	9	20060400	UNCONFIRMED	LOG COMPLEX
GLACIER_DENS_84	10	20060300	UNCONFIRMED	UNK
GLACIER_DENS_84	11	20060400	UNCONFIRMED	UNK
GLACIER_DENS_84	12	20060500	NATAL	LOG COMPLEX
GLACIER_DENS_84	13	20060500	MATERNAL	LOG COMPLEX
GLACIER_DENS_84	14	20070500	NATAL	BOULDER/LOG
IDAHO_DENS_WGS84	1	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	2	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	3	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	4	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	5	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	6	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	7	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	8	19900000	NONE LISTED	NONE LISTED
USFS_NRIS_FW_OBS	197	19810901	NONE LISTED	NONE LISTED
USFS_NRIS_FW_OBS	227	19980330	NONE LISTED	NONE LISTED
USFS_NRIS_FW_OBS	417	20060115	NONE LISTED	NONE LISTED
USFS_NRIS_FW_OBS	422	20080518	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1163	19810901	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1218	19930628	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1287	19980330	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1355	20020615	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1596	19910715	NONE LISTED	NONE LISTED
WA_DFW_PHS_201605	8	19920611	NONE LISTED	NONE LISTED
WA_DFW_PHS_201605	105	20020302	NONE LISTED	NONE LISTED
ORBIC_INDEPENDENT_20161107	169	19970308	NONE LISTED	NONE LISTED
CNDDDB_WOLVERINE_CENTROIDS	62	19770000	NONE LISTED	NONE LISTED

CNDDDB_WOLVERINE_CENTROIDS

162 19960713 NONE LISTED NONE LISTED

TOTAL_DETE	FWS_YEAR	FWS_DECADE
-9	2006	2000
-9	2008	2000
-9	2008	2000
-9	2008	2000
-9	-9	-9
-9	-9	-9
-9	-9	-9
-9	2003	2000
-9	2003	2000
-9	2004	2000
-9	2004	2000
-9	2004	2000
-9	2005	2000
-9	2005	2000
-9	2005	2000
-9	2006	2000
-9	2006	2000
-9	2006	2000
-9	2006	2000
-9	2006	2000
-9	2007	2000
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
1	1981	1980
1	1998	1990
1	2006	2000
3	2008	2000
1	1981	1980
1	1993	1990
1	1998	1990
1	2002	2000
1	1991	1990
-9	1992	1990
-9	2002	2000
-9	1997	1990
-9	1977	1970

-9

1996

1990

Comments_A

WOLVERINE TRACKS AND POSSIBLE DEN SITE ENCOUNTERED BY OBSERVERS, SCOTT LULA AND BOB LEWIS, JUST

MATERNAL DEN SITE. SUBALPINE CONIFER WITH MIX OF WHITEBARK PINE, WHITE FIR AND ENGELMANN SPRUCE \

MATERNAL DEN SITE. KIT WAS APPROXIMATELY 7 LBS AND ESTIMATED AT 11-12 WEEKS OLD. IMPLANTED WITH R

MATERNAL DEN SITE. KIT WAS APPROXIMATELY 7 LBS. AND ESTIMATED TO BE 11-12 WEEKS OLD. IMPLANTED WI
THE OBSERVERS REPORTED THAT THIS LOCATION IS LIKELY A REPRODUCTIVE DEN, AS EVIDENCED BY THE EXTENSI
AT LEAST 3 DENS IN THE AREA, WITH ONE DEN HAVING A HIGH PROBABILITY OF HOUSING KITS, WHILE OTHER SIT
OBSERVER TOOK SEVERAL PHOTOS OF TRACKS IN SNOW. HIGH QUALITY SNOW TRACKING CONDITIONS. PHOTOS

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

HISTORIC WOLVERINE DEN AT BALDY BASINHIGH QUALITY SIGHTING: QUALIFIED OBSERVER, PHYSICAL EVIDENCE,

WOLVERINE TRACKS OBSERVED ALONG BAREE LAKE TRAIL (#489) JUST INSIDE WILDERNESS BOUNDARY; FOLLOWI

WOLVERINE TRACKS AND POSSIBLE DEN SITE ENCOUNTERED BY OBSERVERS JUST INTO IDAHO SIDE OF CONTINEN

WOLVERINE MATERNAL DEN; CAPTURE AND RADIO-TRANSMITTER IMPLANTING PROJECT; FEMALE AND 2 KITS LO

ACTIVITY: OTHER GROUP TYPE: SINGLE REPRODUCTIVE STATUS: UNKNOWN OBSERVATION COMMENTS: HISTOR

GROUP TYPE: SINGLE REPRODUCTIVE STATUS: UNKNOWN OBSERVATION COMMENTS: VIEW SCALE AT DATA EN

ACTIVITY: OTHER GROUP TYPE: SINGLE REPRODUCTIVE STATUS: UNKNOWN OBSERVATION COMMENTS: WOLVE

ACTIVITY: MOVING GROUP TYPE: SINGLE REPRODUCTIVE STATUS: UNKNOWN OBSERVATION COMMENTS: VIEW

WOLVERINE SPOTTED RUNNING FROM A DEN SITE. DEN LOCATED UNDER KRUMMHOLZ SPRUCE ON ALPINE TUNE

WOLVERINE DEN LOCATED NEAR AMERICAN LAKE ON EAST FACING SLOPE SOUTH OF CLIFF LINE. DEN LOCATED IN

WOLVERINE NATAL DEN OBSERVED DURING AERIAL WOLVERINE DEN SURVEY. WOLVERINE TRACKS LOCATED AND

VISUAL SIGHTING OF WOLVERINE TRACKS, CONFIRMED BY JEFF COPELAND, IDFG. POTENTIAL DEN SITE. DOCUMEN

TWO OBSERVED TOGETHER, APPROXIMATELY 1.1 KM NORTH OF BARCROFT; ONE ANIMAL WAS SLIGHTLY SMALLE

ON 13 JULY 1996, ONE MATURE ADULT WAS OBSERVED AT THE BASE OF A SILVER PINE, NEAR A LARGE DUGOUT /

ON THE IDAHO SIDE OF THE CONTINENTAL DIVIDE. SUBALPINE AND DRY CONIFER FOREST, DEEP SNOW, ALPINE
WITH SOME LODGEPOLE PINE; SNOW ABOUT 8 FT. DEEP; TALUS, BOULDER AND AVALANCHE CHUTES ABUNDANT
RADIO TRANSMITTER. SUBALPINE CONIFER WITH MIX OF WHITEBARK PINE, WHITE FIR AND ENGELMANN SPRUCE
TH A RADIO TRANSMITTER. SUBALPINE CONIFER WITH MIX OF WHITEBARK PINE, WHITE FIR AND ENGELMANN
IVE AMOUNT OF LONGTIME USE OF THE AREA AND DEN COMPLEX. THE FOLLOWING DAY, THE OBSERVERS LA
ES APPEARED TO BE A POTENTIAL FOR FORAGING LOCATIONS. OBSERVERS LANDED BY HELICOPTER AND EXAM
STRONGLY INDICATE WOLVERINE BASED ON SIZE (~4-5 INCHES IN LENGTH), IMPRINT OF METAPODIAL PAD OF

TAG INFORMATION. THE ANIMAL WAS DETECTED BY SEEING IT.
ED TRACKS INTO ROCKY CLIFF AREA AND OBSERVED POTENTIAL DEN SITE IN THE ROCKS AND BEHIND AN ICE L
ITAL DIVIDE. SUBALPINE AND DRY CONIFER FOREST, 9200 FT. ELEVATION, DEEP SNOW, ALPINE/BOULDER/TAL
ICATED IN DEN; ADULT FEMALE ESCAPED; 2 KITS WERE CAPTURED AND IMPLANTED WITH RADIO TRANSMITTER
IC WOLVERINE DEN AT BALDY BASIN HIGH QUALITY SIGHTING: QUALIFIED OBSERVER, PHYSICAL EVIDENCE, TA
TRY 1:11466.270538; DIGGING, CLAW MARKS ON TREE, POSSIBLE DEN. PARKER CREEK DRAINAGE, SO SOMEW
ERINE TRACKS OBSERVED ALONG BAREE LAKE TRAIL (#489) JUST INSIDE WILDERNESS BOUNDARY; FOLLOWED
/ SCALE AT DATA ENTRY 1:11598.043487; WOLVERINE WAS RUNNING UP THE SNOW SLOPE. A POTENTIAL DEN
ORA ON THE WEST SIDE OF THE SADDLE. OBSERVER AND COMPANION WERE AT THE LOCATION TO RETRIEVE A
J MIDDLE OF SLOPE. ANIMAL SIGHTED RUNNING TO DEN.
D ADULT WOLVERINE SEEN LEAVING THE DEN. NEAR JUNE 2001 SURVEY SITE #24. GPS: NAD 83 UTM 10 66264
NTATION: FARRELL, TERRY. ODFW WILDLIFE BIOLOGIST, ROSEBURG.
ER THAN THE OTHER. BOTH ANIMALS ENTERED A POSSIBLE DEN SITE BENEATH A BOULDER. ALSO, ONE OBSER

AREA UNDER A STUMP. LATER, 3 CUBS WERE OBSERVED AT THE SAME SITE. DEN SITE LOCATED ON A SMALL P

INE/BOULDER/TALUS SLOPES IN IMMEDIATE VICINITY.

ANT IN VICINITY; UNROADED AREA WITH STRONG WILDENESS CHARACTERISTICS

UCE WITH SOME LODGEPOLE PINE; SNOW ABOUT 8 FT. DEEP; TALUS, BOUL

N SPRUCE WITH SOME LODGEPOLE PINE; SNOW ABOUT 8 FT. DEEP; TALUS
UNDED BY HELICOPTER AND EXAMINED THE AREA ON FOOT. NO SYSTEM INF
MINED THE AREA ON FOOT AFTER SEEING TRACKS THE PREVIOUS DAY.
N FRONT TRACK, AND SPLAYED TOES WITH CLAW PRINTS. TRACKS FOLLOWED

ADEN WALL; THOUGHT THEY COULD HEAR SOUNDS OF ANIMALS COMING FRO
LUS SLOPES IN IMMEDIATE VICINITY. REPORT FORWARDED BY CRAIG F.
ERS TO TRACK MOVEMENTS/DISPERSAL IN THE NORTHERN ROCKY MOUNTAINS. PR
G INFORMATION.
'HERE NORTH OF RIDGE BETWEEN PARKER CREEK AND GUNDERSON C
TRACKS INTO ROCKY CLIFF AREA AND OBSERVED POTENTIAL DEN SITE IN THE
N SITE NEARBY (HOLE DUG IN SNOW WITH DIRT BESIDE
A SMALL WEATHER STATION THAT HAD BEEN PLACED AT THE THEN UNKNOWN DEN SI

IO E 5416513 N.

VATION DURING THE 1960'S IN MCAFEE MEADOW.

KNOLL ABOVE THE LAKE, APPROXIMATELY 75 M AWAY FROM LAKE. HABI

DRAFT Not for real use yet...

Alberta

Saskatchewan

Legend

Dens_All

FWS_DECADE



-9



1970



1980



1990



2000



0 80 160 240 320 Miles

0 90 180 270 360 Kilometers

