

From: [Turner, Ed](#)
To: [Betty Grizzle](#)
Subject: New snow den run excel
Date: Tuesday, February 7, 2017 5:32:28 PM
Attachments: [CFWO Mapped Dens with Copeland 7yr Snow MODIS Results.xlsx](#)

The information comments are contained in the den data, but they can not be viewed on the GIS when selecting the location or when opening the table because of the text length. They are there though and the comment can be selected out of the GIS data and pasted into a word doc. When viewing in the GIS we can only see part of the info as we can not expand the attribute field wide enough to view all.

In excel I was able to select FWS_LINK 42 comment field and wrap it, then paste the value from the GIS in so you can see it.

Hope this helps, Ed

--

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FID	Dens	Common_Nam	Directions	Observers
36		WOLVERINE	SOUTH SIDE OF VANDEVE	NONE LISTED
35		WOLVERINE	N OF MT SILLIMAN (ALSO	NONE LISTED
33		WOLVERINE	VICINITY OF MOUNT BAR	NONE LISTED
34		WOLVERINE	JUST NW OF TOEJAM LAK	NONE LISTED
32		WOLVERINE	TIPSOO PEAK APPROX. 0.	FARRELL, TERRY, RAY DAV
22		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
20		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
21		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
19		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
18		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
2		WOLVERINE	IN A TRIBUTARY OF WEST	KIMBERLY HEINEMEYER
3		WOLVERINE	IN A TRIBUTARY OF WEST	KIMBERLY HEINEMEYER
23		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
24		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
25		WOLVERINE	IDAHO SAWTOOTH DENS	JEFF COPELAND
			UPPER CARMEN CREEK	
			DRAINAGE, APPROX. 1	
			MILE SW OF THE	
			CONTINENTAL DIVIDE,	
			NORTH/UPHILL OF FS	
			TRAIL 138; ELEVATION =	
			8300 FEET.	
1		WOLVERINE		BETH WATERBURY
29		WOLVERINE	SACAGAWEA PEAK, SADD	BESS, JIM
28		WOLVERINE	0.3 KM SW OF RUMBLE C	JOHNSON, KURT
30		WOLVERINE	LOCATION UNCERTAINTY	STREAM, L/WDFW;MILLE
27		WOLVERINE	4.3 KM SE OF THE TOWN	WOODS, D.
14		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
11		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
10		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
9		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
4		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
6		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
7		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
8		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
5		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
16		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
15		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
17		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
12		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
13		WOLVERINE	GLACIER PARK DENS FRO	JEFF COPELAND
26		WOLVERINE	NONE LISTED	NORMAN, BEN (UNKNOW
31		WOLVERINE	LOCATION UNCERTAINTY	FITKIN, S/WDFW

Person_Con	Verificati	Source_Age	DEN
NONE LISTED	VISUAL	NONE LISTED	1
NONE LISTED	VISUAL	NONE LISTED	1
NONE LISTED	VISUAL	NONE LISTED	1
NONE LISTED	VISUAL	NONE LISTED	1
NONE LISTED	VISUAL	NONE LISTED	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
BIOLOGIST, RESEARCHER	TRUSTED	NONE LISTED	1
BIOLOGIST, RESEARCHER	VISUAL	NONE LISTED	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1

BIOLOGIST, RESEARCHER	TRUSTED, IN HAND	IDAHO DEPARTMENT OF I	1
NONE LISTED	VISUAL	NONE LISTED	1
NONE LISTED	VISUAL	NONE LISTED	1
NONE LISTED	VERIFIED METHOD	UNKI WDFW SURVEY	1
NONE LISTED	VISUAL	NONE LISTED	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
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RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
RESEARCHER	FIELD WORK	JEFF COPELAND	1
UNKNOWN	VISUAL	NONE LISTED	1
NONE LISTED	VERIFIED METHOD	AIR WDFW SURVEY	1

FWS_SOURCE	FWS_LINK	DATE	DEN_TYPE	STRUCTURE
CNDDDB_WOLVERINE_CENTROIDS	147	19180918	NONE LISTED	NONE LISTED
CNDDDB_WOLVERINE_CENTROIDS	51	19090910	NONE LISTED	NONE LISTED
CNDDDB_WOLVERINE_CENTROIDS	62	19770000	NONE LISTED	NONE LISTED
CNDDDB_WOLVERINE_CENTROIDS	162	19960713	NONE LISTED	NONE LISTED
ORBIC_INDEPENDENT_20161107	169	19970308	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	5	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	2	19900000	NONE LISTED	NONE LISTED
IDAHO_DENS_WGS84	1	19900000	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	633	-9	NONE LISTED	NONE LISTED
IFWIS_JULY2016_WOLVERINE	634	-9	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

IFWIS_JULY2016_WOLVERINE	42	20080518	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1596	19910715	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1355	20020615	NONE LISTED	NONE LISTED
WA_DFW_PHS_201605	8	19920611	NONE LISTED	NONE LISTED
MT_NHP_SO_20160706	1218	19930628	NONE LISTED	NONE LISTED
GLACIER_DENS_84	11	20060400	UNCONFIRME	UNK
GLACIER_DENS_84	8	20050500	MATERNAL	SPIDER TREE
GLACIER_DENS_84	7	20050400	MATERNAL	SPIDER TREE
GLACIER_DENS_84	6	20050300	NATAL	SPIDER TREE
GLACIER_DENS_84	1	20030400	NATAL	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/BOULDEF
GLACIER_DENS_84	2	20030500	MATERNAL	LOG COMPLEX
GLACIER_DENS_84	13	20060500	MATERNAL	LOG COMPLEX
GLACIER_DENS_84	12	20060500	NATAL	LOG COMPLEX
GLACIER_DENS_84	14	20070500	NATAL	BOULDER/LOG
GLACIER_DENS_84	9	20060400	UNCONFIRME	LOG COMPLEX
GLACIER_DENS_84	10	20060300	UNCONFIRME	UNK
USFS_NRIS_FW_OBS	197	19810901	NONE LISTED	NONE LISTED
WA_DFW_PHS_201605	105	20020302	NONE LISTED	NONE LISTED

TOTAL_DETE	FWS_YEAR	FWS_
-9	1918	1910
-9	1909	1900
-9	1977	1970
-9	1996	1990
-9	1997	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	1990	1990
-9	-9	-9
-9	-9	-9
-9	1990	1990
-9	1990	1990
-9	1990	1990

3	2008	2000
1	1991	1990
1	2002	2000
-9	1992	1990
1	1993	1990
-9	2006	2000
-9	2005	2000
-9	2005	2000
-9	2005	2000
-9	2005	2000
-9	2003	2000
-9	2004	2000
-9	2004	2000
-9	2004	2000
-9	2004	2000
-9	2003	2000
-9	2006	2000
-9	2006	2000
-9	2007	2000
-9	2006	2000
-9	2006	2000
1	1981	1980
-9	2002	2000

Comments_A

SIGN OBSERVED., IN 1937 GRINNELL AND OTHERS

OBSERVATION 10 SEP 1909. MVZ SPECIMEN (#30049) COLLECTED 8 AUG 1919 BY E.W. MCDONALD., IN 1937 GRINNELL AND OTHERS OBSERVED TOGETHER, APPROXIMATELY 1.1 KM NORTH OF BARCROFT; ONE ANIMAL WAS SLIGHTLY SMALLER THAN THE OTHER. ON 13 JULY 1996, ONE MATURE ADULT WAS OBSERVED AT THE BASE OF A SILVER PINE, NEAR A LARGE DUGOUT. VISUAL SIGHTING OF WOLVERINE TRACKS, CONFIRMED BY JEFF COPELAND, IDFG. POTENTIAL DEN SITE. DOCUMENTED.

IDAHO SAWTOOTH DENS FROM THE 1990'S

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IDAHO SAWTOOTH DENS FROM THE 1990'S

THE OBSERVERS REPORTED THAT THIS LOCATION IS LIKELY A REPRODUCTIVE DEN, AS EVIDENCED BY THE EXTENSIVE TRACKS. AT LEAST 3 DENS IN THE AREA, WITH ONE DEN HAVING A HIGH PROBABILITY OF HOUSING KITS, WHILE OTHER SITES ARE USED FOR OTHER PURPOSES.

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

IDAHO SAWTOOTH DENS FROM THE 1990'S

MATERNAL DEN SITE. SUBALPINE CONIFER WITH MIX OF WHITEBARK PINE, WHITE FIR AND ENGELMANN SPRUCE WITH SOME LODGEPOLE PINE; SNOW ABOUT 8 FT. DEEP; TALUS, BOULDER AND AVALANCHE CHUTES ABUNDANT IN VICINITY; UNROADED AREA WITH STRONG WILDERNESS CHARACTERISTICS; SOUTHWEST ASPECT. KIT WAS APPROXIMATELY 7 LBS AND ESTIMATED AT 11-12 WEEKS OLD. IMPLANTED WITH RADIO

TRANSMITTER. CAPTURE AND RADIO-TRANSMITTER IMPLANTING PROJECT; FEMALE AND 2 KITS LOCATED IN

DEN; ADULT FEMALE ESCAPED; 2 KITS WERE CAPTURED AND IMPLANTED WITH RADIO TRANSMITTERS TO TRACK MOVEMENTS/DISPERSAL IN THE NORTHERN ROCKY MOUNTAINS. PR

ANIMAL PHYSICALLY EXAMINED IN HAND AND IDENTIFIED VIA MEASUREMENTS AND CLOSE INSPECTION. MAY INVOLVE CAPTURE OR RELEASE, SUCH AS WOLVERINE SPOTTED RUNNING FROM A DEN SITE. DEN LOCATED UNDER KRUMMHOLZ SPRUCE ON ALPINE TUNDRA

ACTIVITY: MOVING GROUP TYPE: SINGLE REPRODUCTIVE STATUS: UNKNOWN OBSERVATION COMMENTS: VIEW WOLVERINE DEN LOCATED NEAR AMERICAN LAKE ON EAST FACING SLOPE SOUTH OF CLIFF LINE. DEN LOCATED IN

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

GLACIER PARK DENS FROM THE 2000'S

GLACIER PARK DENS FROM THE 2000'S

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GLACIER PARK DENS FROM THE 2000'S

HISTORIC WOLVERINE DEN AT BALDY BASIN HIGH QUALITY SIGHTING: QUALIFIED OBSERVER, PHYSICAL EVIDENCE, WOLVERINE NATAL DEN OBSERVED DURING AERIAL WOLVERINE DEN SURVEY. WOLVERINE TRACKS LOCATED AND

Snow_Cover

Snow cover May 30, 2013, Sierra large steep bowl slope could slide, but no true Avy path

Snow cover May 30, 2013, Sierra slope with unconsolidated smaller and large slab rocks

Snow in vicinity, loc approx so could be in snow patch May 17, 2013, Dryer White Mtns slope w/ what looks to be

No snow cover imagery, on typical eastern Sierra slope with what looks to be some unconsolidated rock

No snow cover imagery for May, snow cover on July 6, 2014, base of small Avy path

No snow imagery in May, Snow Oct 25, 2013 flank of bowl with Avy past slides, den in boulders

No snow imagery in May, Snow Oct 25, 2013, den in sparse sloped tree drainage area between small lakes

No snow imagery on slope above small drainage with sparse tree cover and small rocks

No snow imagery in May, Snow Oct 25, 2013, sloped meadow type drainage above lake and below trees and Avy |

No snow imagery in May, Snow Oct 25, 2013, steep ridge above Horseshoe Lk, sparse trees and builders

No snow imagery May, snow June 8, 2013, in drainage flanked by steep ridge, rocks and sage

No snow imagery May, snow June 8, 2013, in drainage flanked by steep ridge, rocks and sage

No snow imagery in May, Snow Oct 25, 2013 flank of slope with small past slides, den small rocks

No snow imagery, sparse treed slope above small lake, with old slides further up peak

No snow imagery, treed flank of basin slope, with past slides adjacent

No snow imagery May, snow June 2016, treed slope with double track approx. 170' NW

Snow May 31, 2011, on apron of chute east flank of Hardscrabble Ridge

No snow imagery May, Snow in vicinity June 5, 2016, on steep cliff face terrace accessible from above west of Upg

No snow cover imagery for May, snow cover on July 10, 2012, on slope

No snow imagery, edge of dense tree low angle slope looks to be historically forested, 580' east of timber road

Snow May 30, 2015, Extreme steep hard rock face access seems unlikely

Snow May 30, 2015, treed slopes of Cataract Creek Meadow

Snow May 30, 2015, treed slopes of Cataract Creek Meadow

Snow May 30, 2015, treed slopes of Cataract Creek Meadow

No snow imagery, slight clearing in dense tree slope, east flank of large slope valley

Snow patches in vicinity May 30, 2015, treed and rock slopes of Haystack Hump, Logan Pass

Snow patches in vicinity May 30, 2015, treed and rock slopes of Haystack Hump, Logan Pass

Snow patches in vicinity May 30, 2015, treed and rock slopes of Haystack Hump, Logan Pass

No snow imagery, slight clearing in dense tree slope with some boulders, east flank of large slope valley

No snow imagery, dense tree drainage, in cirque of Falling Leaf Lake

No snow imagery, dense tree drainage, in cirque of Falling Leaf Lake

No snow imagery May, snow in vicinity Aug 2015, On steep rock terrace / cliff of Grinnell Glacier

No snow imagery, slope historically prone to slide but no clear Avy chute, in trees as of May 2015, prior years tree

No snow imagery, Avy apron with unconsolidated boulders 15' in size or larger

No snow cover imagery, slight clearing within heavy treed slope on Buckhorn Ridge, 420' N NF-5954 double trac

No snow cover imagery, very rocky slope at apron of Avy Chute

DUP_Notes

small moonscape unconsolidated rock

path runout

Combined comment attributes from 3 duplicate records into one clean record that represents this den location

near Rumble Creek Lake, Swan Ridge

is off slope

ok

FID_Copela	gridcode	Snow_Yr_Co
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2872727	4	4
2871429	5	5
2866264	3	3
2860999	7	7
2805467	3	3
2776939	6	6
2775002	5	5
2774858	6	6
2775478	7	7
2775478	7	7
2765756	1	1
2765756	1	1
2771707	5	5
2771709	7	7
2771001	5	5

2750196	7	7
2726343	4	4
2694963	7	7
2706694	7	7
2672061	1	1
2633710	6	6
2646123	7	7
2633710	6	6
2633710	6	6
2633169	3	3
2632873	6	6
2632873	6	6
2632873	6	6
2633169	3	3
2631300	3	3
2631300	3	3
2631630	5	5
2629359	5	5
2623728	5	5
2627588	2	2
2624257	6	6