

From: [Turner, Ed](#)
To: [Betty Grizzle](#)
Subject: Dens Snow 7 yr run with Google Earth
Date: Monday, February 13, 2017 3:07:41 PM
Attachments: [CFWO Mapped Dens with Copeland 7yr Snow GoogleEarth Results 20170213.xlsx](#)

Betty, I will send the dens to John.

Here is a table you will just need to expand the fields to read the text.

Hope this helps, and I found a tube you can use for the maps it's all on the table over by plotter.

Thanks, Ed

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[illegible]

WOLVERINE	GLACIER PARK DENS FROI	JEFF COPELAND	RESEARCHER
WOLVERINE	NONE LISTED	NORMAN, BEN (UNKNOW	UNKNOWN
WOLVERINE	LOCATION UNCERTAINTY	FITKIN, S/WDFW	NONE LISTED

Verification	Source_Age	DEN	FWS_SOURCE
VISUAL	NONE LISTED		1 CNDDDB_WOLVERINE_CEN
VISUAL	NONE LISTED		1 CNDDDB_WOLVERINE_CEN
VISUAL	NONE LISTED		1 CNDDDB_WOLVERINE_CEN
VISUAL	NONE LISTED		1 CNDDDB_WOLVERINE_CEN
VISUAL	INMAN WILDLIFE CONSER		1 INMAN_DEN_SITES
VISUAL	NONE LISTED		1 ORBIC_INDEPENDENT_20
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
TRUSTED	NONE LISTED		1 IFWIS_JULY2016_WOLVEI
VISUAL	NONE LISTED		1 IFWIS_JULY2016_WOLVEI
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
FIELD WORK	JEFF COPELAND		1 IDAHO_DENS_WGS84
VISUAL	INMAN WILDLIFE CONSER		1 INMAN_DEN_SITES
VISUAL	INMAN WILDLIFE CONSER		1 INMAN_DEN_SITES
VISUAL	INMAN WILDLIFE CONSER		1 INMAN_DEN_SITES
VISUAL	INMAN WILDLIFE CONSER		1 INMAN_DEN_SITES
VISUAL	INMAN WILDLIFE CONSER		1 INMAN_DEN_SITES

[illegible]

FIELD WORK	JEFF COPELAND
VISUAL	NONE LISTED
VERIFIED METHOD AIR	WDFW SURVEY

1	GLACIER_DENS_84
1	USFS_NRIS_FW_OBS
1	WA_DFW_PHS_201605

FWS_LINK	DATE	DEN_TYPE	STRUCTURE
	147	19180918 NONE LISTED	NONE LISTED
	51	19090910 NONE LISTED	NONE LISTED
	62	19770000 NONE LISTED	NONE LISTED
	162	19960713 NONE LISTED	NONE LISTED
	2	20040000 NATAL	NONE LISTED
	169	19970308 NONE LISTED	NONE LISTED
	5	19900000 NONE LISTED	NONE LISTED
	3	19900000 NONE LISTED	NONE LISTED
	4	19900000 NONE LISTED	NONE LISTED
	2	19900000 NONE LISTED	NONE LISTED
	1	19900000 NONE LISTED	NONE LISTED
	633	-9 NONE LISTED	NONE LISTED
	634	-9 NONE LISTED	NONE LISTED
	6	19900000 NONE LISTED	NONE LISTED
	7	19900000 NONE LISTED	NONE LISTED
	8	19900000 NONE LISTED	NONE LISTED
	6	20070000 NATAL	NONE LISTED
	4	20060000 NATAL	NONE LISTED
	5	20060000 NATAL	NONE LISTED
	3	20050000 NATAL	NONE LISTED
	1	20040000 NATAL	NONE LISTED
	42	20080518 NONE LISTED	NONE LISTED
	1596	19910715 NONE LISTED	NONE LISTED
	1355	20020615 NONE LISTED	NONE LISTED
	8	19920611 NONE LISTED	NONE LISTED
	1218	19930628 NONE LISTED	NONE LISTED
	11	20060400 UNCONFIRMED	UNK
	8	20050500 MATERNAL	SPIDER TREE
	7	20050400 MATERNAL	SPIDER TREE
	6	20050300 NATAL	SPIDER TREE
	1	20030400 NATAL	LOG COMPLEX
	3	20040400 NATAL	LOG COMPLEX
	4	20040400 MATERNAL	DOWN LOG
	5	20040500 MATERNAL	LOG/BOULDER
	2	20030500 MATERNAL	LOG COMPLEX
	13	20060500 MATERNAL	LOG COMPLEX
	12	20060500 NATAL	LOG COMPLEX
	14	20070500 NATAL	BOULDER/LOG
	9	20060400 UNCONFIRMED	LOG COMPLEX

10	20060300 UNCONFIRMED	UNK
197	19810901 NONE LISTED	NONE LISTED
105	20020302 NONE LISTED	NONE LISTED

TOTAL_DETE	FWS_YEAR	FWS_DECADE	Comments_A
-9		1918	1910 SIGN OBSERVED., IN 1937
-9		1909	1900 OBSERVATION 10 SEP 19C
-9		1977	1970 TWO OBSERVED TOGETHI
-9		1996	1990 ON 13 JULY 1996, ONE M,
-9		2004	2000 Bob Inman email to Betty
-9		1997	1990 VISUAL SIGHTING OF WOI
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		-9	-9 THE OBSERVERS REPORTE
-9		-9	-9 AT LEAST 3 DENS IN THE /
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		1990	1990 IDAHO SAWTOOTH DENS
-9		2007	2000 Bob Inman email to Betty
-9		2006	2000 Bob Inman email to Betty
-9		2006	2000 Bob Inman email to Betty
-9		2005	2000 Bob Inman email to Betty
-9		2004	2000 Bob Inman email to Betty
3		2008	2000 MATENAL DEN SITE. SUB,
1		1991	1990 WOLVERINE SPOTTED RU
1		2002	2000 ACTIVITY: MOVING GROU
-9		1992	1990 WOLVERINE DEN LOCATE
1		1993	1990 GROUP TYPE: SINGLE REF
-9		2006	2000 GLACIER PARK DENS FROI
-9		2005	2000 GLACIER PARK DENS FROI
-9		2005	2000 GLACIER PARK DENS FROI
-9		2005	2000 GLACIER PARK DENS FROI
-9		2003	2000 GLACIER PARK DENS FROI
-9		2004	2000 GLACIER PARK DENS FROI
-9		2004	2000 GLACIER PARK DENS FROI
-9		2004	2000 GLACIER PARK DENS FROI
-9		2003	2000 GLACIER PARK DENS FROI
-9		2006	2000 GLACIER PARK DENS FROI
-9		2006	2000 GLACIER PARK DENS FROI
-9		2007	2000 GLACIER PARK DENS FROI
-9		2006	2000 GLACIER PARK DENS FROI

-9	2006	2000 GLACIER PARK DENS FROI
1	1981	1980 HISTORIC WOLVERINE DE
-9	2002	2000 WOLVERINE NATAL DEN C

Snow_Cover	DUP_Notes	Num_Snow_Years
	Snow cover May 30, 2013, Sierra large steep bowl s	4
	Snow cover May 30, 2013, Sierra slope with uncons	5
	Snow in vicinity, loc approx so could be in snow pat	3
	No snow cover imagery, on typical eastern Sierra sl	7
	No snow imagery, In treed drainage of Mt Bannon d	5
	No snow cover imagery for May, snow cover on July	3
	No snow imagery in May, Snow Oct 25, 2013 flank c	6
	No snow imagery in May, Snow Oct 25, 2013, den ir	5
	No snow imagery on slope above small drainage wit	6
	No snow imagery in May, Snow Oct 25, 2013, slope	7
	No snow imagery in May, Snow Oct 25, 2013, steep	7
	No snow imagery May, snow June 8, 2013,in draina	1
	No snow imagery May, snow June 8, 2013,in draina	1
	No snow imagery in May, Snow Oct 25, 2013 flank c	5
	No snow imagery, sparse treed slope above small la	7
	No snow imagery, treed flank of basin slope, with p	5
	No snow imagery, sparse treed slope with seasonal	6
	No snow imagery in May, Same coordinate location	7
	No snow imagery in May, Same coordinate location	7
	No snow imagery in May, Snow in vicinity Sept 1, 20	5
	No snow imagery in May, Snow in vicinity Dec 2009	4

	No snow imagery May, sn Combined comment attril	7
	Snow May 31, 2011, on apron of chute east flank of	4
	No snow imagery May, Snow in vicinity June 5, 2016	7
	No snow cover imagery for May, snow cover on July	7
	No snow imagery, edge of dense tree low angle slop	1
	Snow May 30, 2015, Extreme steep hard rock face a	6
	Snow May 30, 2015, treed slopes of Cataract Creek	7
	Snow May 30, 2015, treed slopes of Cataract Creek	6
	Snow May 30, 2015, treed slopes of Cataract Creek	6
	No snow imagery, slight clearing in dense tree slope	3
	Snow patches in vicinity May 30, 2015, treed and ro	6
	Snow patches in vicinity May 30, 2015, treed and ro	6
	Snow patches in vicinity May 30, 2015, treed and ro	6
	No snow imagery, slight clearing in dense tree slope	3
	No snow imagery, dense tree drainage, in cirque of	3
	No snow imagery, dense tree drainage, in cirque of	3
	No snow imagery May, snow in vicinity Aug 2015, O	5
	No snow imagery, slope historically prone to slide b	5

No snow imagery, Avy apron with unconsolidated t	5
No snow cover imagery, slight clearing within heav	2
No snow cover imagery, very rocky slope at apron c	6