

**From:** [Guinotte, John](#)  
**To:** [Turner, Ed](#); [Betty Grizzle](#)  
**Subject:** Fwd: Wolverine and trapping  
**Date:** Monday, March 27, 2017 3:57:39 PM  
**Attachments:** [FemaleWolv\\_Locations.csv](#)  
[WolvRegis1989to2012.xls](#)  
[alberta\\_trapping.zip](#)

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Hi Ed, Here is the Alberta trapping data. I've attached shapefiles I created from attached csv and xls.

Best, John

----- Forwarded message -----

**From:** **Shevenell Webb** <[Shevenell.Webb@ab-conservation.com](mailto:Shevenell.Webb@ab-conservation.com)>  
**Date:** Fri, Mar 24, 2017 at 6:24 AM  
**Subject:** Re: Wolverine and trapping  
**To:** "Guinotte, John" <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>  
**Cc:** Betty Grizzle <[betty\\_grizzle@fws.gov](mailto:betty_grizzle@fws.gov)>

Hi John,

Sorry for the delay. We were supposed to get all of our DNA results back a few weeks ago, but instead of waiting further, I wanted to send you what we have for wolverine locations. I have attached 2 spreadsheets. The wolverine harvest spreadsheet includes all wolverines that were harvested by trappers from 1989-2012 (note that 2012 was an incomplete year because not all registrations had been received at the time of data entry). Trappers are required to bring in their wolverine pelts to be tagged and registered at Fish and Wildlife Offices. The date is when the animal was harvested, sex, and lat/longs are the center point of their trapline (we don't have exact locations). This is the most credible source of harvest because they are brought into Fish and Wildlife and why we used Fur Registration data in Fig 1 in our Snow paper.

The second spreadsheet was created from multiple sources. It includes all the females and lactating females we identified from our run pole study seen in Fig 1 of our Snow paper (2012-2015). It also includes new data not in Fig 1. Sex was determined from DNA test of trapper harvested tissue samples (2012-2015), so each sample is a unique wolverine. Locations from tissue samples are center lat/longs of trapline. We also have been radio collaring wolverines in the Birch Mountains area the last 2 winters and I have included the females we identified there. Note that some individuals have been identified at multiple sites. The capture locations for radio-collared animals in this spreadsheet are exact.

What sort of analysis are you working on with these data? Let me know if you need further clarification.

best, Shevenell

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Shevenell Webb, Wildlife Biologist

Alberta Conservation Association

phone: 207-242-2875

email: [shevenell.webb@ab-conservation.com](mailto:shevenell.webb@ab-conservation.com)

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**From:** Guinotte, John <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>

**Sent:** Monday, February 27, 2017 9:20 AM

**To:** Shevenell Webb

**Cc:** Betty Grizzle

**Subject:** Fwd: Wolverine and trapping

Dear Shevenell,

We are currently involved in a species status assessment for the wolverine in the lower 48 states and are trying to obtain all occurrence records, den sites, and trapline information for Alberta and BC. Would you be able to provide this information from your 2016 paper? And do you know who I should contact to obtain this information for BC? Happy to chat on the phone if you prefer.

Many thanks,  
John

John Guinotte, PhD  
Fish and Wildlife Biologist  
Ecological Services

U.S. Fish and Wildlife Service  
Mountain Prairie Region 6  
134 Union Blvd., Lakewood, CO 80228  
303-236-4264  
[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

----- Forwarded message -----

From: **Doherty, Kevin** <[kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)>  
Date: Mon, Feb 27, 2017 at 6:54 AM  
Subject: Fwd: Wolverine and trapping  
To: Stephen Torbit <[stephen\\_torbit@fws.gov](mailto:stephen_torbit@fws.gov)>, "Guinotte, John" <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>

see below from Boyce. Two names for trap line. No effort data. Low density pops and little harvest is the short story from his experience.

----- Forwarded message -----

From: **Mark Boyce** <[boyce@ualberta.ca](mailto:boyce@ualberta.ca)>  
Date: Sun, Feb 26, 2017 at 10:44 PM  
Subject: Re: Wolverine and trapping  
To: "Doherty, Kevin" <[kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)>

Hi Kevin:

On Crown land (govt land in mtns) all trapping is restricted to registered traplines in Alberta. Although there has been an attempt to compile effort data, e.g., trap nights, it has not happened yet. On average about 50% of traplines are actively trapped in any particular year. Harvests of wolverines are rare in southern Alberta and BC. We know that they can move quite a long distance, especially young males, so there will be no surprise when wolverines are captured in southern Alberta and BC, but generally the densities are very low. I have a trapline at Nordegg and I had a wolverine ravaging my marten sets last year (2015). But it did not stick around and I never had an opportunity to trap him/her. We have a quota of 1 wolverine per trapline per year but I've never caught one.

Shevenell has compiled all wolverine harvest records from registered trapline fur reports, and I believe that these data would be the best available for Alberta. Similar records exist for BC.

I'm not sure that I told you anything new--we do not have records on trapping effort. And I doubt that trappers in southern areas are likely to be making many sets for wolverines. Most would be caught in wolf or lynx sets.

Cheers,  
Mark

On Tue, Feb 21, 2017 at 1:04 PM, Doherty, Kevin <[kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)> wrote:

Mark,

Some folks in the USFWS asked if I would reach out to you about your opinion on a potential Canada and United States boundary effect for Wolverine. Specifically, there is a desire to understand if there is any data on trapping effort and harvest totals for wolverines in southern B.C. and Alberta. From your Alberta Wolverine paper in JWM it appeared that wolverine trapping was low in the trapping record from Southern Alberta. So a couple questions:

Is there an information base that would include trapping effort and trapping success for wolverines that could be used to understand the potential effects of movement on Wolverine between the US and Canada?

If there is data, who would we need to contact to discuss getting access to the data?

Please let me know if you would like to discuss via the phone.

Cheers

Kevin

p.s. We have met a long time ago at the wildlife society meetings in Calgary, when I was a brand new Ph.D. student. When I was googling your information I saw that we were co-authors in Google Scholar, but could not figure out what the paper was. It looked this morning at my pubs, and it was Krissy Bush's Sage-grouse Genetics work.

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Kevin Doherty, PhD  
Spatial Ecologist  
USFWS Region 6 --Science Applications  
134 Union Blvd, Lakewood, CO 80228  
Phone: (303) 921-0524  
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SAGEBRUSH: OUR BRUSH IS WISER THAN YOURS

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Mark S. Boyce, Ph.D., FRSC  
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Alberta Conservation Association Chair in Fisheries & Wildlife  
Department of Biological Sciences, CCIS 1-271, University of Alberta  
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website: <http://grad.biology.ualberta.ca/labs/boyce/>

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Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping.csv (1883 Bytes) cannot be converted to PDF format.

UID	Species	Date	Sex	LONG	LAT
1	WOLVERINE	12/8/1994	M	-114.30990889400	59.39360471030
2	WOLVERINE	1/7/2007	F	-114.30990889400	59.39360471030
3	WOLVERINE	12/28/2007	M	-114.29770208400	58.77864533200
4	WOLVERINE	1/3/2009	F	-114.29770208400	58.77864533200
5	WOLVERINE	11/5/2009	M	-114.29770208400	58.77864533200
6	WOLVERINE	1/31/2012	M	-115.65008628800	57.86892056170
7	WOLVERINE	1/30/2012	M	-115.65008628800	57.86892056170
8	WOLVERINE	1/28/2002	F	-117.96505088800	54.62525577430
9	WOLVERINE	1/12/2003	M	-117.96505088800	54.62525577430
10	WOLVERINE	1/19/2003	M	-117.96505088800	54.62525577430
11	WOLVERINE	12/22/2008	M	-115.24560116400	57.90693227460
12	WOLVERINE	11/28/1989	M	-119.54462917800	58.90059126470
13	WOLVERINE	12/26/1989	M	-119.54462917800	58.90059126470
14	WOLVERINE	1/22/1997	F	-119.54462917800	58.90059126470
15	WOLVERINE	12/8/2002	M	-119.54462917800	58.90059126470
16	WOLVERINE	1/4/2003	M	-119.54462917800	58.90059126470
17	WOLVERINE	12/10/2003	F	-119.54462917800	58.90059126470
18	WOLVERINE	12/2/2005	M	-119.54462917800	58.90059126470
19	WOLVERINE	1/3/2007	F	-119.54462917800	58.90059126470
20	WOLVERINE	11/26/2010	F	-119.54462917800	58.90059126470
21	WOLVERINE	12/8/1991	M	-118.57641382500	59.03596914390
22	WOLVERINE	11/28/1993	M	-118.57641382500	59.03596914390
23	WOLVERINE	12/6/1995	M	-118.57641382500	59.03596914390
24	WOLVERINE	11/19/1996	F	-118.57641382500	59.03596914390
25	WOLVERINE	11/28/1996	M	-118.57641382500	59.03596914390
26	WOLVERINE	1/6/1998	M	-118.57641382500	59.03596914390
27	WOLVERINE	12/13/1998	M	-118.57641382500	59.03596914390
28	WOLVERINE	11/27/2003	M	-118.57641382500	59.03596914390
29	WOLVERINE	1/13/2004	F	-118.57641382500	59.03596914390
30	WOLVERINE	12/3/2009	M	-118.57641382500	59.03596914390
31	WOLVERINE	1/11/1990	F	-119.53002426900	58.60425351660
32	WOLVERINE	12/9/1992	M	-119.53002426900	58.60425351660
33	WOLVERINE	12/8/1996	M	-119.53002426900	58.60425351660
34	WOLVERINE	2/8/2004	M	-119.53002426900	58.60425351660
35	WOLVERINE	2/5/2010	U	-119.53002426900	58.60425351660
36	WOLVERINE	2/4/2010	M	-119.53002426900	58.60425351660
37	WOLVERINE	12/30/2010	F	-119.53002426900	58.60425351660
38	WOLVERINE	1/4/1992	M	-117.96076540500	59.40303636620
39	WOLVERINE	2/4/2005	F	-117.96076540500	59.40303636620
40	WOLVERINE	1/20/2006	F	-117.96076540500	59.40303636620
41	WOLVERINE	12/28/2010	M	-117.96076540500	59.40303636620
42	WOLVERINE	12/14/1989	M	-118.29456113500	59.34324050930
43	WOLVERINE	2/4/2000	M	-118.29456113500	59.34324050930
44	WOLVERINE	11/11/2000	M	-118.29456113500	59.34324050930
45	WOLVERINE	2/10/2001	M	-118.29456113500	59.34324050930
46	WOLVERINE	2/1/2002	M	-118.29456113500	59.34324050930

47	WOLVERINE	2/1/2002	M	-118.29456113500	59.34324050930
48	WOLVERINE	2/3/2003	M	-118.29456113500	59.34324050930
49	WOLVERINE	11/10/2003	F	-118.29456113500	59.34324050930
50	WOLVERINE	12/15/2003	M	-118.29456113500	59.34324050930
51	WOLVERINE	2/15/2004	M	-118.29456113500	59.34324050930
52	WOLVERINE	2/2/2005	F	-118.29456113500	59.34324050930
53	WOLVERINE	2/2/2005	M	-118.29456113500	59.34324050930
54	WOLVERINE	2/15/2009	M	-118.29456113500	59.34324050930
55	WOLVERINE	1/15/2011	M	-118.29456113500	59.34324050930
56	WOLVERINE	1/31/2012	M	-118.29456113500	59.34324050930
57	WOLVERINE	12/3/1995	M	-118.13846815600	58.79615657360
58	WOLVERINE	12/13/1996	M	-119.64563686300	59.42658645350
59	WOLVERINE	1/5/1998	M	-119.64563686300	59.42658645350
60	WOLVERINE	1/20/2000	F	-119.64563686300	59.42658645350
61	WOLVERINE	1/3/2002	F	-119.64563686300	59.42658645350
62	WOLVERINE	12/14/2002	F	-119.64563686300	59.42658645350
63	WOLVERINE	11/28/2003	F	-119.64563686300	59.42658645350
64	WOLVERINE	1/18/2006	F	-119.64563686300	59.42658645350
65	WOLVERINE	12/6/2006	M	-119.64563686300	59.42658645350
66	WOLVERINE	12/8/2008	F	-119.64563686300	59.42658645350
67	WOLVERINE	12/19/1994	F	-118.65208409700	59.43838397200
68	WOLVERINE	1/23/1997	F	-118.65208409700	59.43838397200
69	WOLVERINE	1/30/2003	M	-118.65208409700	59.43838397200
70	WOLVERINE	2/28/2011	F	-118.65208409700	59.43838397200
71	WOLVERINE	12/10/1990	M	-114.23316910900	59.18747769490
72	WOLVERINE	12/15/1990	M	-114.23316910900	59.18747769490
73	WOLVERINE	1/2/1995	M	-114.23316910900	59.18747769490
74	WOLVERINE	12/28/2005	M	-110.47838142400	58.22768474510
75	WOLVERINE	12/6/2006	M	-110.47838142400	58.22768474510
76	WOLVERINE	12/1/1991	F	-114.25462694500	57.16957166370
77	WOLVERINE	12/1/1991	F	-114.25462694500	57.16957166370
78	WOLVERINE	12/14/1992	F	-114.25462694500	57.16957166370
79	WOLVERINE	12/15/1994	M	-114.25462694500	57.16957166370
80	WOLVERINE	12/7/1994	M	-114.25462694500	57.16957166370
81	WOLVERINE	12/2/2000	M	-114.25462694500	57.16957166370
82	WOLVERINE	1/2/2003	M	-114.25462694500	57.16957166370
83	WOLVERINE	11/29/2004	M	-114.25462694500	57.16957166370
84	WOLVERINE	12/10/2005	M	-114.25462694500	57.16957166370
85	WOLVERINE	12/8/2007	M	-114.25462694500	57.16957166370
86	WOLVERINE	12/6/2008	M	-114.25462694500	57.16957166370
87	WOLVERINE	1/10/2003	M	-111.36177141800	55.06296711250
88	WOLVERINE	1/31/2000	M	-115.71358467600	54.97030676360
89	WOLVERINE	8/12/1990	M	-113.42045948300	56.05752315200
90	WOLVERINE	12/10/1991	M	-113.94025396600	56.97426536470
91	WOLVERINE	12/22/1993	F	-113.94025396600	56.97426536470
92	WOLVERINE	11/18/2004	F	-113.94025396600	56.97426536470
93	WOLVERINE	12/7/2007	M	-113.94025396600	56.97426536470



94	WOLVERINE	12/8/2010	F	-113.94025396600	56.97426536470
95	WOLVERINE	12/8/1989	M	-119.05629577400	59.29131308930
96	WOLVERINE	12/14/1990	F	-119.05629577400	59.29131308930
97	WOLVERINE	12/18/1989	U	-117.24342321700	59.83275854770
98	WOLVERINE	12/31/2004	M	-117.24342321700	59.83275854770
99	WOLVERINE	1/31/2004	M	-117.24342321700	59.83275854770
100	WOLVERINE	1/9/1990	U	-117.28936503500	59.13838420330
101	WOLVERINE	2/12/2003	M	-117.28936503500	59.13838420330
102	WOLVERINE	12/30/2004	F	-117.28936503500	59.13838420330
103	WOLVERINE	2/8/2012	M	-117.28936503500	59.13838420330
104	WOLVERINE	12/15/1991	F	-115.34747691500	50.87002404560
105	WOLVERINE	12/23/1989	F	-118.42234510500	59.81255399430
106	WOLVERINE	1/15/1992	M	-118.42234510500	59.81255399430
107	WOLVERINE	12/13/1992	U	-118.42234510500	59.81255399430
108	WOLVERINE	11/26/2003	M	-118.42234510500	59.81255399430
109	WOLVERINE	1/2/2004	M	-118.42234510500	59.81255399430
110	WOLVERINE	1/21/2010	M	-115.75026923700	59.47733018170
111	WOLVERINE	1/4/2009	M	-119.42330219700	58.38371491360
112	WOLVERINE	1/28/2011	F	-119.42330219700	58.38371491360
113	WOLVERINE	12/28/2009	M	-118.41529277200	58.37034898680
114	WOLVERINE	1/30/2011	F	-117.39845655600	58.88787139880
115	WOLVERINE	12/15/1996	U	-119.35917895500	59.89695213090
116	WOLVERINE	12/10/2006	M	-119.35917895500	59.89695213090
117	WOLVERINE	12/26/1991	F	-112.52112786200	57.32148953520
118	WOLVERINE	12/13/1992	F	-112.52112786200	57.32148953520
119	WOLVERINE	12/27/1992	M	-112.52112786200	57.32148953520
120	WOLVERINE	12/26/1993	F	-112.52112786200	57.32148953520
121	WOLVERINE	1/30/1994	M	-112.52112786200	57.32148953520
122	WOLVERINE	12/30/1996	U	-114.20647549700	55.65612788520
123	WOLVERINE	1/30/2009	M	-115.94554942500	58.77645072780
124	WOLVERINE	12/22/2002	M	-116.85249555400	58.73293843860
125	WOLVERINE	12/28/1998	M	-115.98294171200	59.08026777430
126	WOLVERINE	11/1/2004	M	-115.98294171200	59.08026777430
127	WOLVERINE	12/12/2011	M	-115.98294171200	59.08026777430
128	WOLVERINE	12/2/2000	M	-119.08883687900	58.47085046260
129	WOLVERINE	2/3/2003	M	-119.08883687900	58.47085046260
130	WOLVERINE	12/28/2003	M	-119.08883687900	58.47085046260
131	WOLVERINE	1/31/2008	M	-119.08883687900	58.47085046260
132	WOLVERINE	1/30/2010	M	-119.08883687900	58.47085046260
133	WOLVERINE	11/20/2010	M	-113.41750174800	57.64878940720
134	WOLVERINE	12/1/1994	M	-115.75653232900	54.80676543370
135	WOLVERINE	1/5/1990	F	-116.44645058800	54.70465823760
136	WOLVERINE	12/15/1995	M	-112.28185143700	57.26465145210
137	WOLVERINE	1/7/2007	M	-112.28185143700	57.26465145210
138	WOLVERINE	1/14/2010	M	-112.28185143700	57.26465145210
139	WOLVERINE	1/2/2010	F	-115.72712889700	57.33744696370
140	WOLVERINE	12/8/2007	M	-116.49421309600	52.55637507950

141	WOLVERINE	2/7/2011	F	-116.49421309600	52.55637507950
142	WOLVERINE	12/29/2010	M	-116.69229339600	52.31639551090
143	WOLVERINE	12/6/2010	M	-116.69229339600	52.31639551090
144	WOLVERINE	1/30/2009	M	-116.52378814700	51.97993172500
145	WOLVERINE	12/15/2010	F	-116.52378814700	51.97993172500
146	WOLVERINE	12/3/1995	M	-111.06654890200	57.66349467800
147	WOLVERINE	1/16/2001	M	-114.08069138700	56.17414439200
148	WOLVERINE	2/18/2006	F	-114.08069138700	56.17414439200
149	WOLVERINE	11/19/1999	M	-115.60352722800	54.86479162490
150	WOLVERINE	11/25/1992	F	-115.31074061900	56.43157731630
151	WOLVERINE	11/18/1992	M	-115.31074061900	56.43157731630
152	WOLVERINE	12/17/1992	M	-118.18079683600	54.50097802040
153	WOLVERINE	12/5/2010	M	-117.70657092000	54.80478021620
154	WOLVERINE	2/12/2004	M	-113.67491631300	57.51180382000
155	WOLVERINE	12/3/2005	F	-113.67491631300	57.51180382000
156	WOLVERINE	2/7/2009	M	-113.67491631300	57.51180382000
157	WOLVERINE	1/15/2012	M	-113.67491631300	57.51180382000
158	WOLVERINE	12/3/1995	M	-111.11629529800	59.19025119840
159	WOLVERINE	12/4/1993	F	-113.57999359100	56.15334008180
160	WOLVERINE	1/17/1999	M	-113.57999359100	56.15334008180
161	WOLVERINE	1/3/1993	M	-113.21561173300	57.21534697200
162	WOLVERINE	12/22/1994	M	-113.21561173300	57.21534697200
163	WOLVERINE	12/15/1998	M	-113.21229187000	56.87123517240
164	WOLVERINE	12/13/1989	M	-115.27347313200	56.72637376690
165	WOLVERINE	12/15/1993	M	-111.89668710300	57.26019973670
166	WOLVERINE	12/20/2003	F	-113.25368211000	55.79899937700
167	WOLVERINE	1/3/2010	F	-113.78643721000	56.02512588390
168	WOLVERINE	12/28/2003	F	-118.39684900100	54.75897585600
169	WOLVERINE	12/8/1991	M	-111.24287627300	59.27151315310
170	WOLVERINE	12/5/1992	M	-111.24287627300	59.27151315310
171	WOLVERINE	12/27/1994	F	-111.24287627300	59.27151315310
172	WOLVERINE	1/15/1997	M	-111.24287627300	59.27151315310
173	WOLVERINE	12/15/1997	M	-111.24287627300	59.27151315310
174	WOLVERINE	1/31/2003	M	-117.78866625800	58.85339907410
175	WOLVERINE	2/1/2010	F	-111.44210946900	55.00965138840
176	WOLVERINE	1/5/2011	F	-111.44210946900	55.00965138840
177	WOLVERINE	11/25/1990	F	-118.93985507000	58.34665872350
178	WOLVERINE	12/10/1992	M	-118.93985507000	58.34665872350
179	WOLVERINE	1/6/2012	U	-115.02802284900	56.35452678580
180	WOLVERINE	11/27/2010	F	-113.83372172000	56.37724274120
181	WOLVERINE	12/10/2010	M	-113.83372172000	56.37724274120
182	WOLVERINE	1/18/2010	M	-118.12147097400	56.51974018190
183	WOLVERINE	1/10/2012	F	-118.12147097400	56.51974018190
184	WOLVERINE	12/22/1992	F	-119.42328740600	58.29664441210
185	WOLVERINE		U	-119.42328740600	58.29664441210
186	WOLVERINE	1/3/1990	F	-116.72564765100	53.74004919590
187	WOLVERINE	1/3/1990	M	-116.72564765100	53.74004919590

188	WOLVERINE	12/28/1991	F	-116.72564765100	53.74004919590
189	WOLVERINE	12/20/2005	M	-116.00428488000	51.93470263260
190	WOLVERINE	12/30/2005	M	-111.79103734000	54.91962245140
191	WOLVERINE	1/23/2012	M	-117.27667807400	59.34082929600
192	WOLVERINE	12/27/1997	M	-117.24957429900	57.46792989570
193	WOLVERINE	2/15/2003	F	-110.74913007300	58.54980338960
194	WOLVERINE	12/19/2006	M	-114.67376680800	49.58780237970
195	WOLVERINE	11/25/1989	F	-119.84843303400	58.20933094800
196	WOLVERINE	11/25/1989	F	-119.84843303400	58.20933094800
197	WOLVERINE	11/13/1989	M	-119.84843303400	58.20933094800
198	WOLVERINE	12/4/1989	M	-119.84843303400	58.20933094800
199	WOLVERINE	11/15/1990	F	-119.84843303400	58.20933094800
200	WOLVERINE	11/27/1993	M	-119.84843303400	58.20933094800
201	WOLVERINE	11/18/1997	M	-119.84843303400	58.20933094800
202	WOLVERINE	12/20/1997	M	-119.84843303400	58.20933094800
203	WOLVERINE	1/7/2000	F	-119.84843303400	58.20933094800
204	WOLVERINE	1/7/2000	M	-119.84843303400	58.20933094800
205	WOLVERINE	1/12/2004	F	-119.84843303400	58.20933094800
206	WOLVERINE	1/10/2006	F	-119.84843303400	58.20933094800
207	WOLVERINE	1/27/2007	M	-119.84843303400	58.20933094800
208	WOLVERINE	11/20/2007	M	-119.84843303400	58.20933094800
209	WOLVERINE	11/29/2008	M	-119.84843303400	58.20933094800
210	WOLVERINE	12/5/2009	M	-119.84843303400	58.20933094800
211	WOLVERINE	1/8/2010	F	-119.84843303400	58.20933094800
212	WOLVERINE	12/29/2010	F	-119.84843303400	58.20933094800
213	WOLVERINE	1/30/2010	M	-119.84843303400	58.20933094800
214	WOLVERINE	12/31/2011	M	-119.84843303400	58.20933094800
215	WOLVERINE	12/3/2011	F	-119.84843303400	58.20933094800
216	WOLVERINE	2/11/2012	F	-119.84843303400	58.20933094800
217	WOLVERINE	2/11/2012	F	-119.84843303400	58.20933094800
218	WOLVERINE	1/10/1992	F	-110.74870384900	59.95525370820
219	WOLVERINE	1/7/1992	F	-110.74870384900	59.95525370820
220	WOLVERINE	1/28/1999	F	-117.85758899200	57.07076301820
221	WOLVERINE	1/18/2009	M	-117.85758899200	57.07076301820
222	WOLVERINE	12/15/1989	M	-116.62051207900	53.26150830280
223	WOLVERINE	1/10/2005	M	-111.64409543900	57.64681087930
224	WOLVERINE	12/8/1989	F	-115.68341582900	57.70144447630
225	WOLVERINE	12/4/1990	M	-115.68341582900	57.70144447630
226	WOLVERINE	1/10/2001	F	-115.68341582900	57.70144447630
227	WOLVERINE	12/2/1989	M	-116.68364094300	52.47844075180
228	WOLVERINE	12/16/1989	M	-116.91611330100	57.65907300980
229	WOLVERINE	11/18/2004	M	-116.91611330100	57.65907300980
230	WOLVERINE	1/30/1995	M	-118.39801790100	59.95515514080
231	WOLVERINE	1/15/2010	F	-118.39801790100	59.95515514080
232	WOLVERINE	1/14/2010	M	-118.39801790100	59.95515514080
233	WOLVERINE	2/3/2010	M	-112.76503854600	55.13973492920
234	WOLVERINE	1/3/1992	F	-113.59632948900	55.03085860080

235	WOLVERINE	1/1/1992	M	-113.59632948900	55.03085860080
236	WOLVERINE	12/5/1989	F	-117.33670421300	57.66490315740
237	WOLVERINE	1/30/2005	M	-118.16840974500	54.15566618220
238	WOLVERINE	1/13/2007	M	-118.16840974500	54.15566618220
239	WOLVERINE	11/11/2010	M	-118.16840974500	54.15566618220
240	WOLVERINE	12/14/1993	F	-118.15045857400	57.88505074040
241	WOLVERINE	1/17/1997	M	-118.15045857400	57.88505074040
242	WOLVERINE	2/15/2009	M	-118.15045857400	57.88505074040
243	WOLVERINE	1/7/1993	M	-116.84284541000	59.10369210850
244	WOLVERINE	12/10/1998	M	-116.84284541000	59.10369210850
245	WOLVERINE	12/10/2003	M	-116.84284541000	59.10369210850
246	WOLVERINE	12/28/2004	F	-116.84284541000	59.10369210850
247	WOLVERINE	1/28/2006	M	-116.84284541000	59.10369210850
248	WOLVERINE	12/1/2006	M	-116.84284541000	59.10369210850
249	WOLVERINE	12/3/1993	M	-118.47743919500	58.77852741630
250	WOLVERINE	12/4/1996	M	-118.47743919500	58.77852741630
251	WOLVERINE	12/2/1997	U	-118.47743919500	58.77852741630
252	WOLVERINE	1/3/2003	M	-118.47743919500	58.77852741630
253	WOLVERINE	12/1/2003	M	-118.47743919500	58.77852741630
254	WOLVERINE	11/19/2004	F	-118.47743919500	58.77852741630
255	WOLVERINE	1/8/2006	M	-118.47743919500	58.77852741630
256	WOLVERINE	1/15/2001	M	-110.18830969700	58.28346973220
257	WOLVERINE	12/2/1997	M	-118.09341368000	57.05760972560
258	WOLVERINE	1/30/2010	M	-118.09341368000	57.05760972560
259	WOLVERINE	12/27/2010	M	-118.09341368000	57.05760972560
260	WOLVERINE	12/23/1997	F	-116.51106473700	57.66476656570
261	WOLVERINE	1/25/1998	M	-117.05735485600	56.55264095760
262	WOLVERINE	11/14/2006	F	-116.59868327200	56.56707379550
263	WOLVERINE	12/15/1992	M	-119.95155828800	55.64038050460
264	WOLVERINE	12/15/1993	M	-118.71835283200	57.07578675010
265	WOLVERINE	1/6/1998	M	-119.80983985600	56.90092595220
266	WOLVERINE	12/15/2004	M	-119.80983985600	56.90092595220
267	WOLVERINE	1/8/2010	M	-119.80983985600	56.90092595220
268	WOLVERINE	12/11/1996	M	-116.11053012400	58.72316509920
269	WOLVERINE	12/5/2005	M	-116.11053012400	58.72316509920
270	WOLVERINE	12/4/2009	M	-116.11053012400	58.72316509920
271	WOLVERINE	1/30/2009	M	-116.11053012400	58.72316509920
272	WOLVERINE	2/5/2010	M	-116.11053012400	58.72316509920
273	WOLVERINE	12/18/2010	F	-116.11053012400	58.72316509920
274	WOLVERINE	12/18/2010	M	-116.11053012400	58.72316509920
275	WOLVERINE	1/1/2005	F	-116.63048695000	58.90747369660
276	WOLVERINE	1/1/2012	F	-116.63048695000	58.90747369660
277	WOLVERINE	12/15/1998	M	-115.30970272300	55.15599993290
278	WOLVERINE	1/31/2003	F	-115.30970272300	55.15599993290
279	WOLVERINE	12/15/1992	F	-115.63159927100	55.76678354370
280	WOLVERINE	1/28/2006	M	-118.88141934300	57.99298734780
281	WOLVERINE	1/8/1992	F	-118.20127692600	58.10019418660

282	WOLVERINE	2/17/1999	F	-115.62345135300	54.63047010120
283	WOLVERINE	1/5/1995	M	-115.57482279100	58.20975124940
284	WOLVERINE	12/10/1999	M	-118.52182271500	56.88304960780
285	WOLVERINE	12/11/2006	F	-115.83207284500	58.44212499720
286	WOLVERINE	1/26/2010	M	-116.09901164600	58.59234821050
287	WOLVERINE	1/2/2007	F	-111.84689092400	58.05386382130
288	WOLVERINE	1/2/2005	M	-116.73740656700	56.86166868260
289	WOLVERINE	1/5/2004	F	-111.32373381500	56.80272352460
290	WOLVERINE	12/11/1993	M	-117.89365539700	57.64642597210
291	WOLVERINE	12/29/2005	M	-117.89365539700	57.64642597210
292	WOLVERINE	12/18/2004	F	-116.82723625900	55.46453831950
293	WOLVERINE	1/9/2001	M	-115.32123741300	55.72310602120
294	WOLVERINE	11/17/2007	M	-118.27368067800	56.96913428270
295	WOLVERINE	1/26/2010	M	-118.27368067800	56.96913428270
296	WOLVERINE	1/22/1990	M	-119.81278627800	57.92285818890
297	WOLVERINE	1/5/1994	M	-119.81278627800	57.92285818890
298	WOLVERINE	1/2/2008	F	-119.81278627800	57.92285818890
299	WOLVERINE	1/30/2008	M	-111.15682554700	58.47523264440
300	WOLVERINE	12/11/1992	F	-113.91185954600	55.75175142020
301	WOLVERINE	1/28/2012	M	-113.81582741000	57.13396455400
302	WOLVERINE	1/12/1992	F	-110.18253231300	58.79586279510
303	WOLVERINE	11/20/1996	M	-110.18253231300	58.79586279510
304	WOLVERINE	1/10/2001	M	-110.18253231300	58.79586279510
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306	WOLVERINE	12/8/2002	M	-110.18253231300	58.79586279510
307	WOLVERINE	12/2/2004	M	-110.18253231300	58.79586279510
308	WOLVERINE	1/30/2004	M	-110.18253231300	58.79586279510
309	WOLVERINE	11/30/2004	M	-110.18253231300	58.79586279510
310	WOLVERINE	12/13/2005	M	-110.18253231300	58.79586279510
311	WOLVERINE	1/4/2006	M	-110.18253231300	58.79586279510
312	WOLVERINE	12/20/2006	M	-110.18253231300	58.79586279510
313	WOLVERINE	1/31/2008	M	-110.18253231300	58.79586279510
314	WOLVERINE	1/10/2009	M	-110.18253231300	58.79586279510
315	WOLVERINE	1/11/2010	M	-110.18253231300	58.79586279510
316	WOLVERINE	12/7/1989	M	-114.21619627900	54.58173216780
317	WOLVERINE	12/15/1993	M	-110.57819757400	55.98661673230
318	WOLVERINE	1/16/1990	M	-118.39830746600	57.85723893100
319	WOLVERINE	12/10/2004	F	-118.39830746600	57.85723893100
320	WOLVERINE	12/28/2002	M	-116.84756778400	56.21025800810
321	WOLVERINE	1/14/2003	F	-119.35132860700	57.14333672320
322	WOLVERINE	11/24/2003	M	-110.68732393600	56.36826466400
323	WOLVERINE	1/23/2009	M	-118.95468565500	58.16149022050
324	WOLVERINE	12/8/1999	M	-119.87800870900	54.17173519690
325	WOLVERINE	12/8/1999	M	-119.87800870900	54.17173519690
326	WOLVERINE	12/8/1999	M	-119.87800870900	54.17173519690
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328	WOLVERINE	12/18/2007	F	-119.87800870900	54.17173519690

329	WOLVERINE	12/6/2007	F	-119.87800870900	54.17173519690
330	WOLVERINE	12/7/2009	M	-116.70184936900	57.75199791970
331	WOLVERINE	1/6/1996	M	-111.26256786400	59.12471861670
332	WOLVERINE	11/10/1997	M	-111.26256786400	59.12471861670
333	WOLVERINE	1/15/2010	M	-111.26256786400	59.12471861670
334	WOLVERINE	12/15/2010	F	-117.51674821600	58.42756910000
335	WOLVERINE	1/14/2010	M	-117.51674821600	58.42756910000
336	WOLVERINE	2/28/2012	F	-117.51674821600	58.42756910000
337	WOLVERINE	11/11/1991	M	-117.38746493000	52.96512490660
338	WOLVERINE	1/26/1995	F	-117.38746493000	52.96512490660
339	WOLVERINE	12/22/2001	F	-117.89705252200	56.90402588720
340	WOLVERINE	12/30/2006	M	-117.89705252200	56.90402588720
341	WOLVERINE	1/10/2011	M	-117.89705252200	56.90402588720
342	WOLVERINE	1/6/2012	M	-117.89705252200	56.90402588720
343	WOLVERINE	12/14/2001	M	-118.48818964200	58.64529744410
344	WOLVERINE	12/4/2005	F	-118.48818964200	58.64529744410
345	WOLVERINE	1/31/2011	F	-115.36928899200	58.47116060440
346	WOLVERINE	12/27/1991	M	-116.41617783800	53.45634025500
347	WOLVERINE	1/3/1990	F	-110.13025811100	54.71348819410
348	WOLVERINE	12/18/1991	M	-113.59081201100	55.42035983560
349	WOLVERINE	1/2/2007	M	-114.61213842400	58.62738948360
350	WOLVERINE	12/16/1993	M	-115.48382757300	55.08988609780
351	WOLVERINE	12/21/1991	M	-116.74998944400	59.70385988270
352	WOLVERINE	12/15/2011	M	-116.74998944400	59.70385988270
353	WOLVERINE	12/20/2007	M	-117.82025014800	55.53391112760
354	WOLVERINE	12/15/1997	M	-117.37614156300	53.86461352860
355	WOLVERINE	12/23/1998	M	-117.37614156300	53.86461352860
356	WOLVERINE	1/20/2000	M	-117.37614156300	53.86461352860
357	WOLVERINE	3/2/1990	M	-111.42620844100	54.60935609940
358	WOLVERINE	12/29/2003	M	-117.21650433500	52.99195521550
359	WOLVERINE	12/14/2008	M	-117.21650433500	52.99195521550
360	WOLVERINE	11/12/1993	M	-117.69018697600	53.66658934670
361	WOLVERINE	11/8/1998	M	-117.69018697600	53.66658934670
362	WOLVERINE	1/17/2006	M	-114.54540778800	49.84231560210
363	WOLVERINE	1/21/2002	F	-115.76473497700	55.70846632200
364	WOLVERINE	1/1/2005	M	-118.97388760900	54.19554676670
365	WOLVERINE	12/20/1992	M	-116.31230996600	55.54304560180
366	WOLVERINE	1/10/2006	F	-116.63199532300	55.50508425300
367	WOLVERINE	1/16/2009	M	-117.32027288400	53.74390692340
368	WOLVERINE	1/21/2006	F	-118.32777379700	57.61187965700
369	WOLVERINE	1/25/2009	F	-118.32777379700	57.61187965700
370	WOLVERINE	1/27/2012	F	-118.32777379700	57.61187965700
371	WOLVERINE	12/2/1997	M	-114.39083601600	58.48468855780
372	WOLVERINE	2/14/1997	F	-116.58275680200	59.42560472540
373	WOLVERINE	2/1/2005	F	-116.58275680200	59.42560472540
374	WOLVERINE	2/7/2010	F	-116.58275680200	59.42560472540
375	WOLVERINE	1/19/2009	M	-117.02013389400	53.53555342810

376	WOLVERINE	12/24/2010	F	-116.24368129200	57.96953084550
377	WOLVERINE	12/24/2010	M	-116.24368129200	57.96953084550
378	WOLVERINE	3/21/1999	M	-110.54148080100	56.68747781220
379	WOLVERINE	1/3/1990	M	-116.54830404600	53.32144274440
380	WOLVERINE	12/27/1994	M	-111.18472557900	57.16654815100
381	WOLVERINE	12/2/1992	M	-119.34392905300	54.07924587550
382	WOLVERINE	1/9/1995	M	-119.34392905300	54.07924587550
383	WOLVERINE	1/22/1994	M	-111.03925459500	56.36375395090
384	WOLVERINE	11/4/2003	M	-111.70077020500	57.45407240280
385	WOLVERINE	11/28/2004	F	-111.70077020500	57.45407240280
386	WOLVERINE	12/3/1992	M	-116.84527310100	57.45847112560
387	WOLVERINE	11/5/1989	F	-118.65994453200	57.25005210340
388	WOLVERINE	1/7/1990	F	-113.38548483000	55.03932374890
389	WOLVERINE	12/13/1990	F	-111.28976625000	55.59485101930
390	WOLVERINE	12/18/1997	M	-118.45290199200	53.70994710360
391	WOLVERINE	12/20/1999	F	-118.45290199200	53.70994710360
392	WOLVERINE	12/24/2004	M	-118.45290199200	53.70994710360
393	WOLVERINE	12/30/2005	F	-118.45290199200	53.70994710360
394	WOLVERINE	12/7/2009	F	-118.45290199200	53.70994710360
395	WOLVERINE	1/19/2011	F	-118.45290199200	53.70994710360
396	WOLVERINE	1/30/2012	F	-118.45290199200	53.70994710360
397	WOLVERINE	1/14/2003	M	-119.14949739400	57.72980226890
398	WOLVERINE	1/30/2010	F	-119.14949739400	57.72980226890
399	WOLVERINE		M	-119.14949739400	57.72980226890
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402	WOLVERINE	1/4/2009	M	-118.72978378600	54.06939463220
403	WOLVERINE	12/15/2001	M	-118.41302195300	53.84677746230
404	WOLVERINE	11/16/2008	M	-115.78669748400	55.67935250070
405	WOLVERINE	12/27/1993	M	-119.58495978200	54.14013918010
406	WOLVERINE	12/29/1996	F	-119.58495978200	54.14013918010
407	WOLVERINE	12/27/2001	F	-119.58495978200	54.14013918010
408	WOLVERINE	1/21/2012	F	-111.36947413900	59.77950739080
409	WOLVERINE	1/28/2012	M	-111.36947413900	59.77950739080
410	WOLVERINE	2/4/2006	M	-116.21900052800	58.72981572740
411	WOLVERINE	1/20/2010	F	-116.21900052800	58.72981572740
412	WOLVERINE	2/12/2011	M	-116.21900052800	58.72981572740
413	WOLVERINE	1/10/2010	M	-118.62354081000	56.54772067790
414	WOLVERINE	1/20/2007	F	-116.02962848400	59.76908439390
415	WOLVERINE	1/24/2010	M	-119.62386233400	53.89019546640
416	WOLVERINE	2/11/2010	F	-119.62386233400	53.89019546640
417	WOLVERINE	12/23/1990	M	-110.82015372000	54.62136312910
418	WOLVERINE	2/4/2006	M	-116.91553013000	58.18321856180
419	WOLVERINE	1/23/2007	M	-116.91553013000	58.18321856180
420	WOLVERINE	1/28/2008	M	-116.91553013000	58.18321856180
421	WOLVERINE	1/29/2009	M	-116.91553013000	58.18321856180
422	WOLVERINE	12/15/2010	M	-116.91553013000	58.18321856180

423	WOLVERINE	1/8/2010	M	-116.91553013000	58.18321856180
424	WOLVERINE	1/31/2009	M	-117.91179872100	53.49739178870
425	WOLVERINE	12/12/1996	F	-118.94947966700	54.02230559910
426	WOLVERINE	12/3/1989	F	-115.35620897800	55.56158320730
427	WOLVERINE	3/30/2011	M	-117.46254628700	53.16435082390
428	WOLVERINE	1/2/2002	M	-118.16026483200	53.40443741260
429	WOLVERINE	1/30/2002	M	-118.16026483200	53.40443741260
430	WOLVERINE	2/1/2004	M	-118.16026483200	53.40443741260
431	WOLVERINE	12/10/2010	M	-118.16026483200	53.40443741260
432	WOLVERINE	9/12/1997	F	-117.54213993900	57.31352431200
433	WOLVERINE	12/7/1994	M	-111.68578346900	56.91151887870
434	WOLVERINE	1/18/2003	F	-111.68578346900	56.91151887870
435	WOLVERINE	1/18/2004	F	-111.68578346900	56.91151887870
436	WOLVERINE	12/8/2000	M	-111.14070961800	57.24908730930
437	WOLVERINE	12/15/2007	F	-111.14070961800	57.24908730930
438	WOLVERINE	12/29/1991	M	-115.95257944900	55.55500932410
439	WOLVERINE	1/22/1997	M	-114.45895791800	49.55913308680
440	WOLVERINE	11/20/2008	M	-114.42209352100	54.98137183500
441	WOLVERINE	12/15/1992	F	-117.83331604800	57.39596155690
442	WOLVERINE	1/2/1992	M	-119.39846688700	54.56287838470
443	WOLVERINE	1/21/2011	M	-114.74435644300	57.28413368610
444	WOLVERINE	12/14/1991	F	-119.47999040000	54.47857159530
445	WOLVERINE	12/14/1991	M	-119.47999040000	54.47857159530
446	WOLVERINE	12/30/2001	M	-119.47999040000	54.47857159530
447	WOLVERINE	12/9/2006	F	-117.27871144800	56.44383183030
448	WOLVERINE	12/15/2011	M	-110.77723262000	57.51175057420
449	WOLVERINE	1/15/1991	F	-119.11792821100	56.99635183110
450	WOLVERINE	1/6/2002	M	-119.11792821100	56.99635183110
451	WOLVERINE	1/22/2003	M	-119.11792821100	56.99635183110
452	WOLVERINE	1/10/2011	F	-119.11792821100	56.99635183110
453	WOLVERINE	1/28/2005	F	-119.42136282800	56.46463702180
454	WOLVERINE	1/15/1996	F	-111.82470056300	56.46453993980
455	WOLVERINE	1/30/2006	M	-111.82470056300	56.46453993980
456	WOLVERINE	12/28/2005	F	-117.04378847000	52.88164994690
457	WOLVERINE	1/4/2005	M	-117.04378847000	52.88164994690
458	WOLVERINE	1/30/2010	M	-117.04378847000	52.88164994690
459	WOLVERINE	1/28/2005	M	-119.15250172200	57.36821269760
460	WOLVERINE	12/5/2003	F	-119.81741385300	57.50594065490
461	WOLVERINE	12/5/2008	F	-119.81741385300	57.50594065490
462	WOLVERINE	11/17/2009	M	-119.81741385300	57.50594065490
463	WOLVERINE	11/15/2003	M	-117.06794920400	58.23375762950
464	WOLVERINE	11/15/2003	M	-117.06794920400	58.23375762950
465	WOLVERINE	10/8/2004	F	-117.06794920400	58.23375762950
466	WOLVERINE	12/20/2004	M	-117.06794920400	58.23375762950
467	WOLVERINE	12/7/2005	F	-117.06794920400	58.23375762950
468	WOLVERINE	12/20/2005	M	-117.06794920400	58.23375762950
469	WOLVERINE	12/10/2007	M	-117.06794920400	58.23375762950



470	WOLVERINE	11/23/2011	F	-117.06794920400	58.23375762950
471	WOLVERINE	1/13/1992	M	-116.64064961800	57.844444404070
472	WOLVERINE	1/30/2004	M	-115.79993080000	58.78911259920
473	WOLVERINE	1/10/2006	M	-115.79993080000	58.78911259920
474	WOLVERINE	1/8/2009	M	-115.79993080000	58.78911259920
475	WOLVERINE	12/14/2010	M	-115.79993080000	58.78911259920
476	WOLVERINE	12/15/2007	M	-117.76019103600	58.63967088820
477	WOLVERINE	12/1/2008	F	-117.76019103600	58.63967088820
478	WOLVERINE	12/23/2009	F	-117.76019103600	58.63967088820
479	WOLVERINE	12/18/2010	F	-117.76019103600	58.63967088820
480	WOLVERINE	12/5/2010	M	-117.76019103600	58.63967088820
481	WOLVERINE	12/5/2011	M	-117.76019103600	58.63967088820
482	WOLVERINE	12/11/2011	M	-117.76019103600	58.63967088820
483	WOLVERINE	1/15/2005	M	-110.20487020800	56.78061116200
484	WOLVERINE	11/28/2003	M	-117.97090093600	58.12273353280
485	WOLVERINE	12/15/2004	M	-117.97090093600	58.12273353280
486	WOLVERINE	3/30/2006	M	-116.14641977800	57.63168376190
487	WOLVERINE	11/26/2003	F	-118.19469964700	59.73032013190
488	WOLVERINE	1/3/2004	M	-118.19469964700	59.73032013190
489	WOLVERINE	12/3/2004	F	-118.19469964700	59.73032013190
490	WOLVERINE	12/3/2004	F	-118.19469964700	59.73032013190
491	WOLVERINE	1/4/2006	M	-118.19469964700	59.73032013190
492	WOLVERINE	2/14/2006	F	-118.19469964700	59.73032013190
493	WOLVERINE	2/1/2007	M	-118.19469964700	59.73032013190
494	WOLVERINE	12/20/2008	M	-118.19469964700	59.73032013190
495	WOLVERINE	12/20/2010	M	-118.19469964700	59.73032013190
496	WOLVERINE	1/25/2012	M	-118.19469964700	59.73032013190
497	WOLVERINE	12/6/1991	M	-114.65892279700	57.78132560590
498	WOLVERINE	12/29/2003	M	-111.69824545400	56.56110776280
499	WOLVERINE	1/5/2009	M	-111.69824545400	56.56110776280
500	WOLVERINE	1/12/2011	M	-116.64715528200	59.20651591580
501	WOLVERINE	2/4/2012	M	-116.64715528200	59.20651591580
502	WOLVERINE	2/2/2012	M	-116.64715528200	59.20651591580
503	WOLVERINE	1/29/1997	U	-111.18990387400	57.54791481100
504	WOLVERINE	2/6/2003	M	-111.18990387400	57.54791481100
505	WOLVERINE	12/28/2002	M	-115.93618589000	58.60221582460
506	WOLVERINE	1/9/1995	F	-118.79063751200	57.40657073870
507	WOLVERINE	11/30/1997	M	-118.79063751200	57.40657073870
508	WOLVERINE	1/6/2009	F	-118.79063751200	57.40657073870
509	WOLVERINE	2/13/2003	F	-119.12672840800	57.56802520560
510	WOLVERINE	1/4/2010	F	-119.12672840800	57.56802520560
511	WOLVERINE	1/15/2012	M	-119.12672840800	57.56802520560
512	WOLVERINE	1/28/1990	M	-119.52702197800	57.73827184200
513	WOLVERINE	12/22/2003	F	-117.73925177900	54.16668361390
514	WOLVERINE	12/16/1989	M	-116.57486046500	54.88441005610
515	WOLVERINE	1/15/2010	F	-117.20557077600	53.43039397420
516	WOLVERINE	1/4/1992	M	-111.09386936800	56.77719487610

517	WOLVERINE	1/15/2004	M	-111.09386936800	56.77719487610
518	WOLVERINE	12/24/2005	M	-111.09386936800	56.77719487610
519	WOLVERINE	11/16/1996	M	-111.22456177300	59.06044486590
520	WOLVERINE	12/27/2001	M	-111.22456177300	59.06044486590
521	WOLVERINE	12/10/2002	F	-111.22456177300	59.06044486590
522	WOLVERINE	12/10/2005	F	-111.22456177300	59.06044486590
523	WOLVERINE	12/9/2007	M	-111.22456177300	59.06044486590
524	WOLVERINE	1/6/2009	F	-111.22456177300	59.06044486590
525	WOLVERINE	1/12/2010	M	-111.22456177300	59.06044486590
526	WOLVERINE	1/5/2012	F	-111.22456177300	59.06044486590
527	WOLVERINE	12/14/2007	M	-115.28986145500	52.16072628480
528	WOLVERINE	12/10/1994	M	-118.48679783400	57.11989210590
529	WOLVERINE	1/1/1995	F	-118.48679783400	57.11989210590
530	WOLVERINE	1/4/1996	F	-111.88979629100	57.35184087320
531	WOLVERINE	1/1/1996	M	-111.88979629100	57.35184087320
532	WOLVERINE	12/31/2011	M	-114.26692989900	55.28684314560
533	WOLVERINE	12/28/1989	M	-117.81328617700	56.98833262110
534	WOLVERINE	12/30/2001	M	-117.81328617700	56.98833262110
535	WOLVERINE	1/21/2008	M	-117.81328617700	56.98833262110
536	WOLVERINE	1/25/2009	M	-117.81328617700	56.98833262110
537	WOLVERINE	1/16/2010	M	-117.81328617700	56.98833262110
538	WOLVERINE	1/27/2011	M	-117.81328617700	56.98833262110
539	WOLVERINE	1/16/2012	M	-117.81328617700	56.98833262110
540	WOLVERINE	1/17/2004	M	-119.70715203300	56.63909941110
541	WOLVERINE	12/9/1999	M	-119.32003307000	57.90442529270
542	WOLVERINE	1/4/2002	M	-119.32003307000	57.90442529270
543	WOLVERINE	1/4/2002	M	-119.32003307000	57.90442529270
544	WOLVERINE	12/14/2002	F	-119.32003307000	57.90442529270
545	WOLVERINE	12/4/2003	M	-119.32003307000	57.90442529270
546	WOLVERINE	12/10/2004	F	-119.32003307000	57.90442529270
547	WOLVERINE	12/8/2007	M	-119.32003307000	57.90442529270
548	WOLVERINE	12/10/2008	M	-119.32003307000	57.90442529270
549	WOLVERINE	12/14/2009	M	-119.32003307000	57.90442529270
550	WOLVERINE	12/16/2010	M	-119.32003307000	57.90442529270
551	WOLVERINE	12/1/2011	M	-119.32003307000	57.90442529270
552	WOLVERINE	1/19/2002	M	-116.76941878100	53.96507081640
553	WOLVERINE	12/28/2007	F	-118.46120468800	58.28943939290
554	WOLVERINE	1/30/2010	M	-118.46120468800	58.28943939290
555	WOLVERINE	1/24/1998	M	-116.62664210300	55.84332276910
556	WOLVERINE	2/7/2010	M	-116.29475481000	59.56155552230
557	WOLVERINE	12/10/1991	M	-119.13086640200	56.79199468640
558	WOLVERINE	1/28/2002	F	-119.13086640200	56.79199468640
559	WOLVERINE	2/15/2006	M	-116.17728534800	56.78791096110
560	WOLVERINE	1/14/1991	F	-119.91796665300	55.53652865680
561	WOLVERINE	1/21/1995	M	-118.83960350900	53.53023906580
562	WOLVERINE	1/26/1996	F	-118.83960350900	53.53023906580
563	WOLVERINE	12/28/1997	M	-118.83960350900	53.53023906580

564	WOLVERINE	1/3/1999	M	-118.83960350900	53.53023906580
565	WOLVERINE	1/12/2000	M	-118.83960350900	53.53023906580
566	WOLVERINE	1/12/2000	M	-118.83960350900	53.53023906580
567	WOLVERINE	1/4/2001	F	-118.83960350900	53.53023906580
568	WOLVERINE	1/4/2001	F	-118.83960350900	53.53023906580
569	WOLVERINE	12/28/2001	M	-118.83960350900	53.53023906580
570	WOLVERINE	1/9/2004	M	-118.83960350900	53.53023906580
571	WOLVERINE	1/18/2006	M	-118.83960350900	53.53023906580
572	WOLVERINE	12/1/2006	M	-118.98877654600	57.86077330360
573	WOLVERINE	11/27/1999	M	-116.20638848400	53.94761528320
574	WOLVERINE	12/18/2010	M	-116.52321533300	58.20979492530
575	WOLVERINE	11/15/1996	U	-110.12232140500	58.43935427190
576	WOLVERINE	11/29/2003	M	-110.12232140500	58.43935427190
577	WOLVERINE	2/2/2005	M	-110.12232140500	58.43935427190
578	WOLVERINE	12/29/1989	M	-111.24518500800	54.73425400090
579	WOLVERINE	12/15/2004	M	-112.01066287300	56.81248361240
580	WOLVERINE	1/11/1997	M	-110.86530684800	58.95269796120
581	WOLVERINE	10/10/2010	F	-110.86530684800	58.95269796120
582	WOLVERINE	12/4/1998	M	-116.91300683500	55.15139356660
583	WOLVERINE	12/7/2010	F	-116.40452177600	57.99183882280
584	WOLVERINE	1/30/1998	M	-118.35895100300	54.52775756090
585	WOLVERINE	1/25/1998	M	-118.35895100300	54.52775756090
586	WOLVERINE	12/1/2002	M	-118.65251555300	57.81947499640
587	WOLVERINE	12/5/1990	F	-116.32520457900	53.93615427980
588	WOLVERINE	1/25/1995	M	-119.87403784600	57.07551164760
589	WOLVERINE	12/22/2004	M	-119.87403784600	57.07551164760
590	WOLVERINE	1/15/2010	M	-119.87403784600	57.07551164760
591	WOLVERINE	1/24/2007	F	-115.11902877500	57.34047645520
592	WOLVERINE	11/23/1995	M	-112.07918005000	56.72642532590
593	WOLVERINE	12/12/1992	M	-114.21511132800	56.72659223870
594	WOLVERINE	1/20/2010	F	-118.31881047000	56.68530935070
595	WOLVERINE	12/28/2002	M	-118.38139306800	58.21579184360
596	WOLVERINE	1/26/2011	M	-118.38139306800	58.21579184360
597	WOLVERINE	12/20/1990	M	-114.08293900400	57.29387300900
598	WOLVERINE	12/20/1990	M	-114.08293900400	57.29387300900
599	WOLVERINE	12/14/1995	M	-114.08293900400	57.29387300900
600	WOLVERINE	1/12/1999	F	-114.08293900400	57.29387300900
601	WOLVERINE	1/16/2008	M	-114.08293900400	57.29387300900
602	WOLVERINE	2/12/1998	F	-113.14733318700	56.93735224540
603	WOLVERINE	12/8/2004	M	-113.14733318700	56.93735224540
604	WOLVERINE	1/10/2010	M	-113.14733318700	56.93735224540
605	WOLVERINE	12/1/2003	F	-113.35496686900	57.24986069180
606	WOLVERINE	2/1/2012	F	-117.79745609900	59.90965796330
607	WOLVERINE	12/2/2003	F	-115.03664343600	55.60634822460
608	WOLVERINE	1/7/2004	M	-115.03664343600	55.60634822460
609	WOLVERINE	12/6/2004	F	-115.03664343600	55.60634822460
610	WOLVERINE	12/18/1996	F	-118.31181041800	54.31306902520

611	WOLVERINE	12/11/1996	M	-118.31181041800	54.31306902520
612	WOLVERINE	11/25/1998	F	-118.31181041800	54.31306902520
613	WOLVERINE	11/21/1999	F	-118.31181041800	54.31306902520
614	WOLVERINE	12/4/1999	F	-118.31181041800	54.31306902520
615	WOLVERINE	12/20/2000	M	-118.31181041800	54.31306902520
616	WOLVERINE	11/15/2002	F	-118.31181041800	54.31306902520
617	WOLVERINE	12/3/2002	F	-118.31181041800	54.31306902520
618	WOLVERINE	1/23/1991	M	-114.11794547800	49.27244525370
619	WOLVERINE	12/10/1991	F	-114.11794547800	49.27244525370
620	WOLVERINE	12/27/1991	M	-114.11794547800	49.27244525370
621	WOLVERINE	1/31/2004	F	-114.11794547800	49.27244525370
622	WOLVERINE	12/6/2008	M	-114.11794547800	49.27244525370
623	WOLVERINE	1/21/2011	M	-114.11794547800	49.27244525370
624	WOLVERINE	2/3/1993	M	-110.70411562400	59.16145458510
625	WOLVERINE	12/12/1998	M	-119.73342883900	54.45775319780
626	WOLVERINE	1/30/2011	M	-119.73342883900	54.45775319780
627	WOLVERINE	1/3/1991	M	-114.31880942700	49.30561452830
628	WOLVERINE	12/9/1993	M	-114.31880942700	49.30561452830
629	WOLVERINE	12/9/1993	M	-114.31880942700	49.30561452830
630	WOLVERINE	12/19/1997	F	-114.31880942700	49.30561452830
631	WOLVERINE	1/30/2007	M	-114.31880942700	49.30561452830
632	WOLVERINE	1/16/1992	M	-114.86635151300	59.05690756540
633	WOLVERINE	1/10/1991	M	-114.07256768700	58.85006724890
634	WOLVERINE	1/15/1992	M	-114.07256768700	58.85006724890
635	WOLVERINE	2/12/1992	M	-114.07256768700	58.85006724890
636	WOLVERINE	11/10/1994	M	-114.07256768700	58.85006724890
637	WOLVERINE	1/5/1995	M	-114.07256768700	58.85006724890
638	WOLVERINE	12/19/1999	M	-114.07256768700	58.85006724890
639	WOLVERINE	12/2/2005	M	-114.07256768700	58.85006724890
640	WOLVERINE	1/10/2007	M	-114.07256768700	58.85006724890
641	WOLVERINE	12/24/2002	F	-110.37986574100	57.62559576560
642	WOLVERINE	12/26/2002	F	-110.37986574100	57.62559576560
643	WOLVERINE	1/30/2005	F	-110.37986574100	57.62559576560
644	WOLVERINE	1/6/2003	F	-111.01580726500	57.86115965800
645	WOLVERINE	1/9/1990	M	-110.13968055700	57.75799696950
646	WOLVERINE	1/5/1996	M	-110.13968055700	57.75799696950
647	WOLVERINE	1/5/2003	M	-110.13968055700	57.75799696950
648	WOLVERINE	12/20/2002	M	-111.76226999600	56.05734683790
649	WOLVERINE	12/29/2009	M	-114.52202332200	56.21238097070
650	WOLVERINE	12/7/2001	M	-115.59510759700	57.51198546370
651	WOLVERINE	12/4/2004	M	-115.59510759700	57.51198546370
652	WOLVERINE	1/15/2008	M	-115.59510759700	57.51198546370
653	WOLVERINE	1/20/2009	M	-115.59510759700	57.51198546370
654	WOLVERINE	12/20/2004	F	-112.90373001100	56.94426923390
655	WOLVERINE	12/20/2005	M	-112.90373001100	56.94426923390
656	WOLVERINE	1/10/2010	U	-112.90373001100	56.94426923390
657	WOLVERINE	1/6/2007	M	-112.78953428400	57.47822931110

658	WOLVERINE	1/12/2009	M	-112.78953428400	57.47822931110
659	WOLVERINE	1/20/2003	F	-112.71410458600	57.68597304890
660	WOLVERINE	1/22/1992	M	-117.03837826600	54.05311095760
661	WOLVERINE	12/4/1997	U	-112.50124124500	56.94444849240
662	WOLVERINE	1/5/1999	M	-112.50124124500	56.94444849240
663	WOLVERINE	1/10/2003	M	-112.50124124500	56.94444849240
664	WOLVERINE	1/25/2004	M	-112.50124124500	56.94444849240
665	WOLVERINE	1/19/1996	M	-110.24728829200	57.46804230140
666	WOLVERINE	1/2/2002	F	-110.24728829200	57.46804230140
667	WOLVERINE	12/10/2003	M	-110.24728829200	57.46804230140
668	WOLVERINE	1/11/2005	F	-110.24728829200	57.46804230140
669	WOLVERINE	12/21/2002	M	-112.13969596700	57.68598935910
670	WOLVERINE	12/28/2005	F	-112.23446280700	55.62401359940
671	WOLVERINE	1/28/1996	M	-113.72732473100	57.81700944160
672	WOLVERINE	11/25/2006	F	-117.13814873500	58.69952202580
673	WOLVERINE	1/4/2007	M	-117.13814873500	58.69952202580
674	WOLVERINE	11/30/2007	M	-117.13814873500	58.69952202580
675	WOLVERINE	12/4/2009	M	-117.13814873500	58.69952202580
676	WOLVERINE	12/25/2010	M	-117.13814873500	58.69952202580
677	WOLVERINE	11/18/2011	M	-117.13814873500	58.69952202580
678	WOLVERINE	1/5/1991	F	-110.47146466700	57.09771248750
679	WOLVERINE	12/30/1996	U	-119.05383523200	58.57986238160
680	WOLVERINE	1/20/2002	M	-119.05383523200	58.57986238160
681	WOLVERINE	2/5/2006	M	-119.05383523200	58.57986238160
682	WOLVERINE		U	-119.05383523200	58.57986238160
683	WOLVERINE	1/15/2008	F	-119.05383523200	58.57986238160
684	WOLVERINE	12/15/2010	M	-119.05383523200	58.57986238160
685	WOLVERINE		U	-119.05383523200	58.57986238160
686	WOLVERINE	12/20/2010	F	-113.30459695900	57.90431588890
687	WOLVERINE	12/21/2011	M	-112.97958597000	57.94793419590
688	WOLVERINE	1/26/1997	F	-110.69789144400	57.64251118310
689	WOLVERINE	12/27/1999	M	-118.48618379700	53.51128712570
690	WOLVERINE	1/26/2008	M	-115.01469339400	52.76503037340
691	WOLVERINE	1/17/2007	F	-110.16441113100	57.11868532430

Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping.cpg (5 Bytes) cannot be converted to PDF format.

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Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping.shp (884 Bytes) cannot be converted to PDF format.

Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping.shx (324 Bytes) cannot be converted to PDF format.

Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping (1).cpg (5 Bytes) cannot be converted to PDF format.

Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping (1).dbf (389511 Bytes) cannot be converted to PDF format.

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Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping (1).sbn (6980 Bytes) cannot be converted to PDF format.



Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping (1).sbx (492 Bytes) cannot be converted to PDF format.

Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping (1).shp (19392 Bytes) cannot be converted to PDF format.

Attachment 20170327 155739\_EM\_Fwd\_ Wolverine and trapping (1).shx (5612 Bytes) cannot be converted to PDF format.