

**Historical Collections of Razorback Sucker in Lake  
Powell, Outside of the Lake Powell Razorback Sucker  
Survey of 2011, 2012, and 2014**

**Final Report**  
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# INTRODUCTION

This document was prepared as an appendix for the latest annual report on razorback sucker collections in the San Juan River arm of Lake Powell (Francis et al. In Prep.). The primary purpose of this literature search was to quantify numbers of razorback sucker (*Xyrauchen texanus*) historically-collected in Lake Powell and to help inform decisions guiding future research, specifically where to look in Lake Powell in order to study additional aggregations of this species. The tables contained in this appendix represent all of the known captures of endangered razorback sucker within the boundaries of Lake Powell from studies other than the Lake Powell Razorback Sucker Survey of 2011, 2012, and 2014 conducted by the U.S. Fish and Wildlife Service and the Utah Division of Wildlife Resources. Data collected during the 2011 and 2012 survey of the San Juan River arm and the 2014 survey of the Colorado River arm of Lake Powell (Francis et al. 2013, Francis et al. In Prep.) aren't included in these tables.

Data in these tables comes from a wide variety of source materials, including agency reports, journal articles, emails, FAXes, and various databases. The primary source information is often vague and confusing. Additionally, several different sources may cite the same fish collections with varying degrees of information being presented in each separate source. In areas where this happened, an effort was made to list all of the known data presented in multiple sources (e.g., date of capture, length, weight, collection site, etc.), as well as to list all appropriate data sources from which that information was taken. An effort was made to complete the historical capture tables as thoroughly as possible. However, in many cases data was missing, even if a fish was referred to by multiple sources. Fish with colored text for their PIT tag numbers indicate fish that were captured in multiple years, with the same text color relating to the same individual across years.

One thing that became clear during this literature search was that razorback sucker have been collected in Lake Powell over a large span of years, from 1982-2012 in the San Juan River arm of Lake Powell and from 1972 to 2014 in the Colorado River arm and in the main body of the lake. As can be seen from the tables in this appendix, the large majority of the razorback sucker collections occurred in the two river arms of the lake. This seems to be directly related to the fact that the large majority of investigative fisheries work has taken place in these locations. In the few instances when data for fisheries investigations in the main lake could be found, razorback sucker were present at those locations also.

Table 1. All other known collections of razorback sucker from the San Juan River arm of Lake Powell. This table includes TL and location first-time captures of individual fish. Subsequent recaptures and growth information are not included in this table.

Collection Date	Collection Site	Number Of Fish	Gear	Agency/Collector (Data Source)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
4/20/1982	“Piute Farms”	6	Gill Net	UDWR – Wahweap (UDWR database)				Wild Fish
11/14/1983	“Neskahi”	1	Gill Net	UDWR – Wahweap (UDWR database)		550		Wild Fish
11/14/1984	“Neskahi”	1	Gill Net	UDWR – Wahweap (UDWR database)		545		Wild Fish
3/20/1987 to 3/30/1987	RM 0.0 Near the concrete boat ramp at Piute Farms Marina	12	Gill Net/ Trammel Net	University of New Mexico – Museum of Southwestern Biology (Platania 1990, Platania et al. 1991)	(M) 7F7F366926 (M) (M) (F) (F) 7F7F366B02 (M) (F) 7F7F365964 (M) (M) (M) (M) 1990 Mortality (M)	546 (2060) 572 (2500) 572 (2350) 635 (3300) 675 (3500) 554 (2320) 625 (2900) 572 (2390) 605 (2800) 589 (2810) 581 (2650) 561 (2370)		Wild Fish
3/28/1988 to 3/30/1988	RM 0.0 Near the concrete boat ramp at Piute Farms Marina	4 “new” (+ 6 recaps from 1987)	Trammel Net	UNM – Museum of Southwestern Biology (Platania 1990, Platania et al. 1991)		646 (3400) 595 (2550) 570 (2300) 675 (3600)		Wild Fish
11/14/1989	“Neskahi”	1	Gill Net	UDWR – Wahweap database		601 (2550)		Wild Fish

Table 1. Continued.

Collection Date	Collection Site	Number Of Fish	Gear	Agency/Collector (Data Source)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
4/3/1990	Between Mike's Canyon and Copper Canyon on the San Juan River arm of Lake Powell	14 (4 were recaps from 1987 – see colors)	Trammel Net	UDWR – Wahweap (UDWR database; McKay 1990)	7F7F366926 (M) 7F7F365964 (M) Mortality (M) 7F7F366B02 (M) 7F7F365C29 (M) Mortality (M) 7F7F366F77 (M) 7F7F36591E (M) 7F7F18780C (F) 7F7F36607A (F) 7F7F36275F (F) 7F7E605000 (M) 7F7F36634D (F) Escaped (F)	585 (2400) 583 (2400) 559 (2250) 568 (2060) 590 (2680) 595 (2270) 557 (2100) 578 (2700) 682 (3540) 580 (2720) 653 (3200) 575 (2000) 676 (3880) 637		Wild Fish
4/4/1991	At or near Nokai Canyon	1	Trammel Net	FAX with header: Dec-5-91 Thursday 9:12 Vernal CRFP	7F7F187C5A (F)	641 (2720)		Wild Fish
4/5/1991	At or near Nokai Canyon	2	Trammel Net	FAX with header: Dec-5-91 Thursday 9:12 Vernal CRFP	7F7F19036C (F?) 7F7F187B63 (M)	650 (2910) 644 (2590)		Wild Fish
4/17/1992 To 4/18/1992	“... extreme upper San Juan River arm of Lake Powell” “... in a cove off the south side of Lake Powell near RM -10.0”	3	Trammel Net	UDWR (Lashmett 1993)				Wild Fish
3/16/1995	RM -8.5	1	Trammel Net	National Park Service (San Juan River Basin RIP database)	1F43686353	427	10/27/1994 (79.6)	1992
7/13/1999	RM 2.0 “Piute Farms”	1	Trammel Net	USGS – Denver (Mueller et al. 2000)	5220551C28	489 (1495)	Unknown – thought to be a stocked fish	?

Table 1. Continued.

Collection Date	Collection Site	Number Of Fish	Gear	Agency/Collector (Data Source)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
08/17/1999	RM 1.1 "Piute Farms"	1	Trammel Net	USGS – Denver (Mueller et al. 2000)	7F7B1B5402	467 (1075)	04/22/1998 (158.6)	1993
10/5/1999	RM 1.1 & RM 0.7 "Piute Farms"	2	Trammel Net	USGS – Denver (Mueller et al. 2000)	1F75115803 7F7B18014B	532 (1590) 490 (1320)	08/15/1995 (0.0) 05/28/1998 (158.6)	1992 1993
10/7/1999	RM 1.1 "Piute Farms"	1	Trammel Net	USGS – Denver (Mueller et al. 2000)	7F7B12155F	459 (1048)	05/28/1998 (158.6)	1993
5/2/2000	"... just downstream of Piute Farms"	2	Larval Light Traps	USGS – Denver (Mueller et al. 2000)		Larvae		2000
6/06/2000	RM 0.0 "Piute Farms"	3	Trammel Net	USGS – Denver (Mueller et al. 2000)	1F41482038 1F6B2B7356 7F7B11352B	492 (1294) 472 (1202) 485 (982)	11/18/1994 (158.6) 08/15/1995 (0.0) 04/22/1998 (158.6)	1992 1992 1993
6/07/2000	RM -4.0 "Mike's Canyon"	1	Trammel Net	USGS – Denver (Mueller et al. 2000)	1F732D724F	505 (1392)	11/18/1994 (136.6)	1992
6/27/2000	RM 0.7 "Piute Farms"	1	Electrofishing	USGS – Denver (Mueller et al. 2000)	1F412A2D49	505 (1466)	11/18/1994 (117.5)	1992
6/28/2000	RM 1.1 "Piute Farms"	1	Trammel Net	USGS – Denver (Mueller et al. 2000)	1F4E594773	495 (1390)	Unknown – thought to be a stocked fish	
7/18/2000	RM -2.4 "Piute Farms"	1	Electrofishing	USGS – Denver (Mueller et al. 2000)	1F43686353	522 (1540)	10/27/1994 (79.6)	1992
6/03/2003	San Juan River arm of Lake Powell	2	Gill Net	USGS Coop. Unit at Utah State Univ. (Email from Gary Thiede dated 6/16/2004; USGS database)	Unknown	~ 530 (21") ~ 530 (21")	Unknown (no PIT tag reader)	? ?
7/30/2003	San Juan River arm of Lake Powell	1	Gill Net	USGS Coop. Unit at Utah State Univ. (Email from Gary Thiede dated 6/16/2004; USGS database)	Unknown	495 (1386)	Unknown (no PIT tag reader)	?

Table 1. Continued.

Collection Date	Collection Site	Number Of Fish	Gear	Agency/Collector (Data Source)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
2003 exact dates unknown	“One point upstream of Neskahi Wash” UTM = 530072E 4116747N	1	Gill Net	UDWR - Wahweap (Email from Quent Bradwisch dated 08/28/2003)	1F5B36222E	500 (1421)	08/08/1995 (0.0)	1992
2003 exact dates unknown	“... in the area of Neskahi Wash”	3	Gill Net	UDWR - Wahweap (Email from Quent Bradwisch dated 08/28/2003)	? ? ?	? ? ?	3 Unknown (no PIT tag reader)	? ? ?
May 2004	San Juan River arm of Lake Powell	1	Unknown	USGS Coop. Unit at Utah State Univ. (Email from Gary Thiede dated 6/16/2004)	?	?	Unknown (no PIT tag reader)	?
11/04/2004 to 11/05/2004	Neskahi Wash (~RM -30.6)	3	Gill Net	UDWR - Wahweap (Email from Wayne Gustaveson dated 30 November 2004)	425B763D54 425C1F0E44 4268686119	411 (667) 448 (1070) 470 (1130)	04/13/2004 (158.6) 04/14/2004 (158.6) 04/13/2004 (158.6)	2001 2001 2001
07/28/2005	RM -1.1	1	Cast Net	UDWR – Moab (Email from Julie Jackson dated 8/8/2005; Jackson 2006)	(7F7B142B34 & 3D91BF18D6853)	~ 450	05/28/1998 (158.6)	1993
08/24/2005	RM -1.1	2	Cast Net	UDWR - Moab (Jackson 2006)	3D91BF1E9BE0B (4220700E12 & 3D91BF1D8B884)	482 458	Unknown Unknown	? ?
8/14/2006	RM -1.1	1	Cast Net	UDWR – Moab (Elverud & Jackson 2007; San Juan River Basin RIP database)	(426B1D7261 & 3D91BF18BFEE3)	514	4/13/04 (158.6)	2001

Table 1. Continued.

Collection Date	Collection Site	Number Of Fish	Gear	Agency & (Collector)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
10/31/2006 to 11/1/2006	Neskahi Wash (~RM -30.6)	4	Gill Net	UDWR – Wahweap (UDWR database)	441E215133 423E581A63 425B083239 44742C1776	485 (1144) 535 (1678) 437 (999) 500 (1380)	Unknown 10/30/01 (158.6) 4/14/04 (158.6) Unknown	? 1999 2001 ?
7/12/2007	RM -1.1	1	Angling	UDWR – Moab (Elverud 2008; San Juan River Basin RIP database)	3D91BF1E89192	460	5/17/05 (158.6)	2002
8/13/2007	RM -1.1	1	Cast Net	UDWR – Moab (Elverud 2008; San Juan River Basin RIP database)	(426B370B27 & 3D9257C69341E)	424	4/13/2004 (158.6)	2001
11/06/2007 to 11/07/2007	Neskahi Wash (~RM -30.6)	2	Gill Net	UDWR – Wahweap (UDWR database)		508 (1351) 501 (1420)	Unknown (no PIT tag reader)	? ?
06/10/2008	RM -3.8	7	Electrofishing	UDWR - Moab (Elverud 2009; San Juan River Basin RIP database)	3D9257C697544	411	Unknown	?
	RM -5.5				3D9257C69C6D0	309	Unknown	?
	RM -9.5				3D9257C6AE6A1 (425A3A4B20 & 3D9257C6B90ED)	245	Unknown	?
	RM -11.5				(5229117968 & 3D9257C6BA328)	495	4/14/04 (158.6)	2001
	RM -3.8				3D9257C69B976	464	4/26/04 (158.6)	2002
RM -6.5	(52283D1348 & 3D9257C6BC079)	405	7/26/2006 (158.6)	2001				
RM -9.5		510	4/14/2003 (158.6)	2001				
7/22/2008	RM -1.1	3	Cast Net	UDWR - Moab (Elverud 2009; San Juan River Basin RIP database)	3D91BF1CD424C (43650A4B2B & 3D9257698598) 3D91BF1CD3F61	439 524 444	5/18/05 (158.6) 8/24/04 (158.6) 5/19/05 (158.6)	2002 2000 2002

Table 1. Continued.

Collection Date	Collection Site	Number Of Fish	Gear	Agency & (Collector)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
11/04/2008 To 11/12/2008	Neskahi Wash (~RM -30.6)	2	Gill Net	UDWR – Wahweap (UDWR database)		394 412 (709)	Unknown (no PIT tag reader)	? ?
11/04/2008 To 11/12/2008	Neskahi Wash (~RM -30.6)	2	Gill Net	UDWR – Wahweap (UDWR database)		394 412 (709)	Unknown (no PIT tag reader)	? ?
11/17/2009	Neskahi Wash (~RM -30.6)	2	Gill Net	UDWR – Wahweap (UDWR database)		513 (1636) 415 (850)	Unknown (no PIT tag reader)	? ?
11/10/2010	Neskahi Wash (~RM -30.6)	1	Gill Net	UDWR – Wahweap (UDWR database)		526 (1700)	Unknown (no PIT tag reader)	?
11/13/2012 to 11/14/2012	Neskahi Wash (~RM -30.6)	2	Gill Net	UDWR – Wahweap (email from George Blommer to Krissy Wilson, dated 11/30/2012)		493 (1433) 575 (2000)	Unknown (no PIT tag reader)	? ?



Table 2. All other known collections of razorback sucker that occurred within the bounds of Lake Powell, but outside of the San Juan River arm. This table includes TL and location first-time captures of individual fish. Subsequent recaptures and growth information are not included in this table.

Collection Date	Collection Site	Number Of Fish	Gear	Agency/Collector (Data Source)	Pit Tag Number (Sex)	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
3/14/1972	CO River arm – “Rincon Bay” (downstream of Bullfrog Bay)	2	Gill Net	UDWR – Wahweap (UDWR database)				Wild Fish
3/16/1973	CO River arm – “Red Canyon” (east of Good Hope Bay)	1	Gill Net	UDWR – Wahweap (UDWR database)				Wild Fish
3/20/1975	CO River arm – “Good Hope Bay”	1	Gill Net	UDWR – Wahweap (UDWR database)		616 (3025)		Wild Fish
4/16/1980 To 6/18/1980	CO River arm – Gypsum Canyon	6	Gill Net	USGS Coop. Unit at Utah State Univ. (Persons et al. 1981)				Wild Fish
5/16/1980 To 5/18/1980	CO River arm – at or near Gypsum Canyon	4	“Trammel Nets, Gill Nets, Electrofishing”	USFWS – CRFP Grand Junction, CO (Valdez et al. 1982)		526 (1530) 500 (1244) 458 (1620) 520 (1832)		Wild Fish
6/10/1980	CO River arm – at or near Gypsum Canyon	1	“Trammel Nets, Gill Nets, Electrofishing”	USFWS – CRFP Grand Junction, CO (Valdez et al. 1982)		557 (1990)		Wild Fish
4/8/1990 Or 4/11/1990	CO River arm – “Dirty Devil arm” (along NW shore, 0.8 miles downstream of the mouth of the Dirty Devil arm)	4	Gill Net Electrofish Gill Net Electrofish	UDWR – Wahweap (UDWR database; McKay 1990)	7F7F366363 (M) 7F7F365329 (M) 7F7F36607B (M) 7F7F365275 (F)	571 (2260) 558 (1880) 609 (2300) 615 (2940)		Wild Fish

Table 2. Continued.

Collection Date	Collection Site	Number Of Fish	Gear	Agency/Collector (Data Source)	Pit Tag Number	TL in mm (WT in g)	Stocking Date & (RM Stocked At)	Year-Class
5/24/1980 To 7/22/1980	CO River arm – Gypsum Canyon	11	Gill Net	USGS Coop. Unit at Utah State Univ. (Persons et al. 1981)				Wild Fish
4/16/1991	CO River arm – “Hite area” near Dirty Devil inflow	1	Trammel Net	(FAX with header: Dec-5-91 Thursday 9:12 Vernal CRFP)	7F7F190442 (F?)	661 (3000)		Wild Fish
4/25/1991	CO River arm – “Hite area” near Dirty Devil inflow	1	Trammel Net	(FAX with header: Dec-5-91 Thursday 9:12 Vernal CRFP)	7F7F187873 (M)	558 (2500)		Wild Fish
4/26/1991	CO River arm – “Hite area” near Dirty Devil inflow	2	Electrofish Trammel Net	(FAX with header: Dec-5-91 Thursday 9:12 Vernal CRFP)	7F7F19081D (F?) 7F7F19082D (M)	632 (2800) 569 (2220)		Wild Fish
5/16/2000	CO River arm – “Sheep Canyon”	1	Trammel Net	USGS – Denver (Mueller et al. 2000)	7F7D16594F Mort	459 (1032)	Vernal, UT (Green RM 319)	
10/28/2003	CO River arm – “Trachyte Canyon”	1	Gill Net	USGS Coop. Unit at Utah State Univ. (Email from Gary Thiede dated 6/16/2004; USGS database)		410	Unknown (no PIT tag reader)	?
8/7/2005	CO River arm – “Trachyte”	1	Gill Net	USGS Coop. Unit at Utah State Univ. (Budy et al. 2005; USGS database)		362 (454)	Unknown (no PIT tag reader)	?
11/1/2005	CO River arm – “Bullfrog”	1	Gill Net	USGS Coop. Unit at Utah State Univ. (Budy et al. 2005; USGS database)		439 (850)	Unknown (no PIT tag reader)	?
11/4/2005	CO River arm – “Trachyte”	1	Gill Net	USGS Coop. Unit at Utah State Univ. (Budy et al. 2005; USGS database)		453 (862)	Unknown (no PIT tag reader)	?

Table 2. Continued.

<b>Collection Date</b>	<b>Collection Site</b>	<b>Number Of Fish</b>	<b>Gear</b>	<b>Agency/Collector (Data Source)</b>	<b>Pit Tag Number</b>	<b>TL in mm (WT in g)</b>	<b>Stocking Date &amp; (RM Stocked At)</b>	<b>Year-Class</b>
11/14/2006	Main lake – “Wahweap/Warm Creek bays”	2	Gill Net	UDWR – Wahweap (UDWR database)		405 (791) 428 (811)	Unknown (no PIT tag reader)	? ?
11/4/2008	CO River arm – “Good Hope Bay”	1	Gill Net	UDWR – Wahweap (UDWR database)		394	Unknown (no PIT tag reader)	?
11/2/2010	CO River arm – “Good Hope Bay”	1	Gill Net	UDWR – Wahweap (UDWR database)		489	Unknown (no PIT tag reader)	?
11/15/2012	Main lake – “Wahweap”	1	Gill Net	UDWR – Wahweap (Email from George Blommer dated 11/30/2012)		562 (2145)	Unknown (no PIT tag reader)	?

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