



Lower Colorado River Multi Species Conservation Program
Balancing Resource, Use and Conservation

Off-Channel Backwater Razorback Sucker Repatriation Status Report

Lake Mohave, NV-AZ Remote PIT Scanning Summary 2010-2016

Mid-Year NFWG
August 24, 2016

Remote PIT Scanning Summary L. Mohave Backwaters NV-AZ, 2006-2016

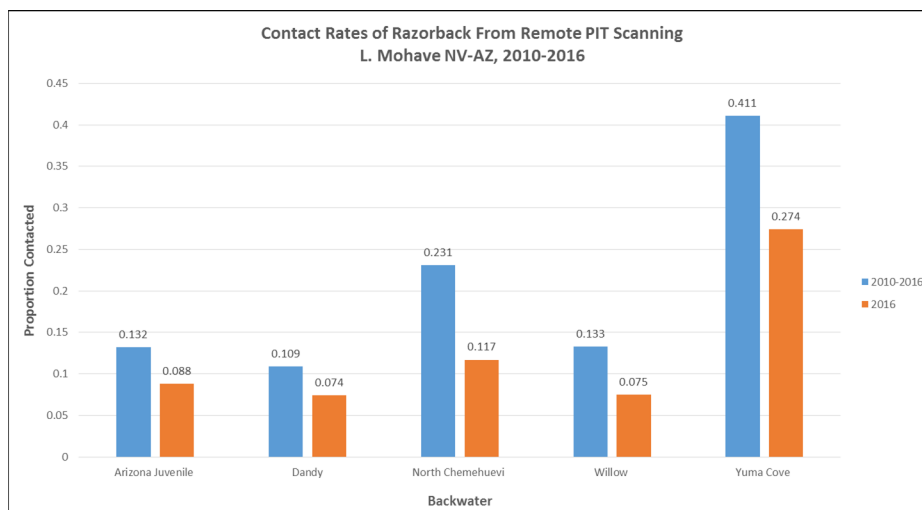
Backwater	Years	Total Released	Total Contacts	Total Uniques Contacted	Proportion Contacted
*Arizona Juvenile	2006-2015	1174	3322	155	0.132
Dandy	2006-2015	1554	4230	169	0.109
N. Chemehuevi	2007-2015	1131	5816	261	0.231
Willow	2006-2015	308	1039	41	0.133
Yuma Cove	2006-2012	1222	13857	502	0.411
TOTALS		5389	28264	1128	0.209

*N = 1 Repatriate escapee from berm breach April 11, 2016 contacted on scanner June 21, 2016 at Cottonwood Island Cove, NV not included in totals.

Remote PIT Scanning Summary L. Mohave Backwaters NV-AZ, 2016

Backwater	Years	Total Released	Total Contacts	Total Uniques Contacted	Proportion Contacted
*Arizona Juvenile	2006-2015	1174	1235	103	0.088
Dandy	2006-2015	1554	1363	115	0.074
N. Chemehuevi	2007-2015	1131	1455	132	0.117
Willow	2006-2015	308	260	23	0.075
Yuma Cove	2006-2012	1222	3639	335	0.274
TOTALS		5389	7952	708	0.131

*N = 1 Repatriate escapee from berm breach April 11, 2016 contacted on Scanner June 21, 2016 at Cottonwood Island Cove, NV not included in totals.

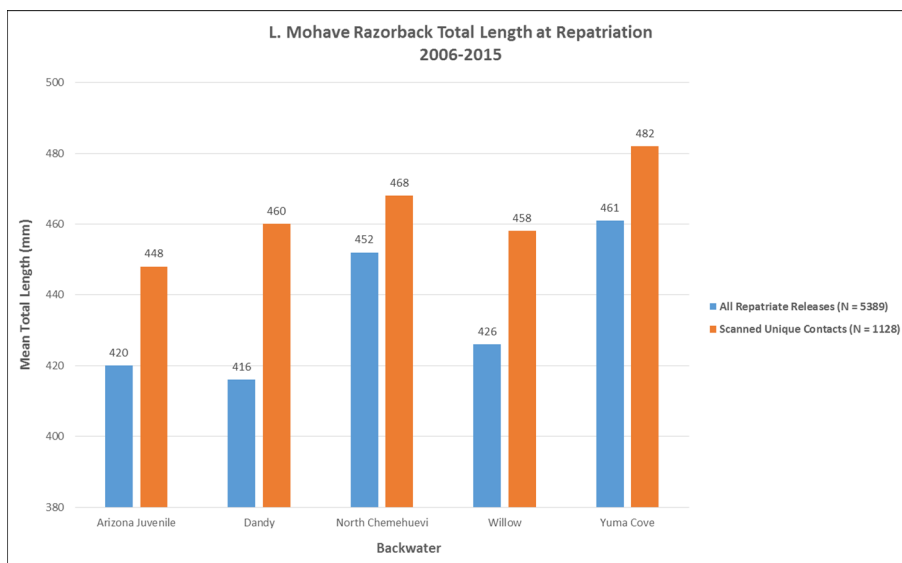


Mean Total Length (mm) at Time of Repatriation

Backwater	Mean TL All Releases	Range TL All Releases	Mean TL Scanned Uniques	Range TL Scanned Uniques
Arizona Juvenile	420	310-520	448	370-520
Dandy	416	165-541	460	370-541
N. Chemehuevi	452	325-540	468	354-540
Willow	426	260-521	458	315-508
Yuma Cove	461	300-624	482	338-624
TOTALS	435	165-624	463	315-624

83% of all repatriate releases \geq 400 mm.

93% of unique repatriates contacted by PIT scanning \geq 400 mm.



Remote PIT Scanning Summary 400-134kH L. Mohave Backwaters, NV-AZ, 1992-2016

Backwater	Years	Total New 134kH Tagged	Total Contacts	Total Uniques Contacted	Proportion Contacted
Arizona Juvenile	1993-2016	33	406	15	0.455
Dandy	1994-2016	12	156	5	0.417
N. Chemehuevi	1994-2016	25	425	13	0.52
Willow	1993-2016	8	84	2	0.25
Yuma Cove	1992-2012	95	1236	40	0.421
TOTALS		173	2307	75	0.434

Yuma Cove Backwater Recruitment Population Surveys 2013-2016

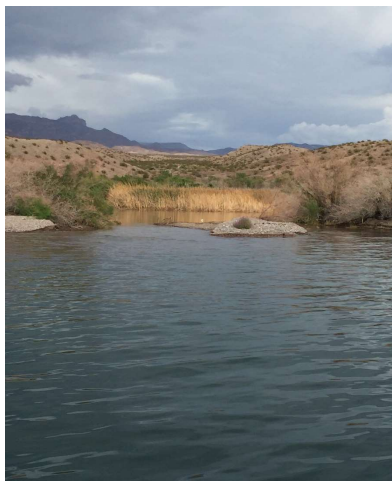
Survey Date	YOYs Captured	YOYs Recaptured	Recapture Origin	Mean YOY TL
13-14 November 2013	50	--	--	324
2 January 2014	5	5	13-14 Nov 2013	345
14 May 2015	102	0		421
28 May 2015	44	22	14 May 2015	422
3 May 2016	44	12	May 2015 (11) Nov 2013 (1)	448
18 May 2016	41	18	May 2016 (2) May 2015 (15) Nov 2013 (1)	453
TOTALS	286	57		402

Additional Survey(s) to be scheduled November/December 2016

Arizona Juvenile
Aquashade® Treatments
12 February 2016



Arizona Juvenile Berm Breach
11 April 2016



Arizona Juvenile Berm Breech

11 April 2016
643.54 ft.



16 August 2016
642.39 ft.



Ongoing Work and Future Recommendations

- Increased lake-wide scanning outside spawning season.
- Permanent Scanner arrays installed.
- Additional Yuma Cove population surveys.
- Yuma Cove backwater repatriation schedule?
 - No releases since 2012
- Berm reconstruction at Arizona Juvenile backwater?
- Continuation of experimental dye treatments?
 - AJ and NV Egg most viable options

