

Summary of Lower Colorado River Native Fishes Database Activities for 2016



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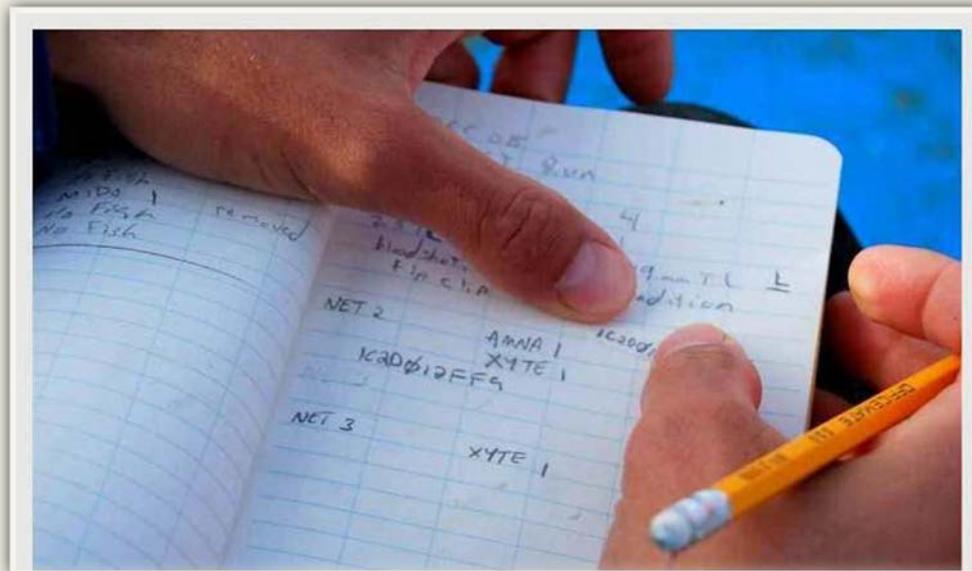
Funding provided by the Lower Colorado River Multi-Species Conservation Program (LCR MSCP)



Lower Colorado River Native Fish Database



- Native Fish Work Group (NFWG) founded in 1990 with all fish stocking and monitoring data centralized at Arizona State University
- All data currently centralized at Marsh & Associates LLC
- Database currently holds 505K records of PIT-tag data + and records from all LCR MSCP reaches, from Lake Mead down to the lower river



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Reach and Species, 2016



Reach	Species	Area	Collected	Stocked	Total
1	FLSU	Main channel	60	0	60
	FLSU X RASU		2	0	2
	RASU		3	10	13
2	BONY	Main channel	0	507	507
		Selected backwaters	0	728	728
	RASU	Main channel	192	8,257	8,449
		Selected backwaters	278	451	729
3	BONY	Main channel	47	5,732	5,779
	FLSU		47	0	47
	RASU		436	3,828	4,264
4 & 5	BONY	Main channel	0	4,456	4,456
		Selected backwaters	0	1,289	1,289
	RASU	Main channel	0	9,017	9,054
Total			1,065	34,275	35,340



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Reach and Agency, 2016



Reach	Agency	Collected	Stocked	Total
1	Bio-West	0	10	10
	BR	65	0	65
2	BR	374	9,943	10,317
	FWS	20	0	20
	M&A	10	0	10
	M&A, AZGFD and AZDEQ	7	0	7
	NDOW	6	0	6
	NDOW and NPS	53	0	53
3	AZFWCO	25	29	54
	AZGFD	1	0	1
	BR	351	9,531	9,882
	BR and FWS	104	0	104
	BR, CADFG and FWS	12	0	12
	FWS	37	0	37
4 & 5	BR	0	14,762	14,762
Total		1,065	34,275	35,340



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Rearing Location in Reach 1, 2016



Rearing location	Collected	Stocked	Total
Lake Mead Fish Hatchery	0	10	10
Not applicable	65	0	65
Total	65 (60 FLSU) (2 FLSU x RASU) (3 RASU)	10 (all RASU)	75



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Rearing Location in Reach 2, 2016, Part 1^a



Rearing location	Collected	Stocked	Total
Achii Hanyo	16	616	632
Arizona Juvenile	12	101	113
Beal Slough	1	0	1
Boulder City Golf Course Ponds	2	0	2
Boulder City Wetlands Park	20	0	20
Bubbling Ponds FH	4	0	4
Dandy Cove	10	39	49
Davis Cove	3	0	3
Dexter NFH (SNARRC)	9	400	409
Lake Mead Fish Hatchery	0	835	835
Nevada Egg	1	0	1
Nevada Larvae	2	0	2
North Chemehuevi Cove	18	20	38
North Nine Mile Cove	1	0	1
Not applicable	1	0	1
Overton Wildlife Management Area, Center Pond	3	0	3

^aFish from NDOW and NPS for Dec 2016 not included.



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Rearing Location in Reach 2, 2016, Part 2^a



Rearing location	Collected	Stocked	Total
South Sidewinder Cove	2	0	2
Unknown	12	0	12
Willow backwater	2	34	36
Willow Beach NFH	69	7,898	7,967
Yuma Cove	265	0	265
Total	453 (all RASU)	9,943 (1,235 BONY) (8,718 RASU)	10,396

^aFish from NDOW and NPS for Dec 2016 not included.



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Rearing Location in Reach 3, 2016



Rearing location	Collected	Stocked	Total
Achii Hanyo	0	1,981	1,981
Beal Slough	2	0	2
Bubbling Ponds FH	326	1,526	1,852
Cibola NWR High Levee Pond	6	0	6
Davis Cove	1	2	3
Dexter NFH (SNARRC)	47	4,047	4,094
Emerald Canyon Golf Course Ponds	1	0	1
Hualapai Tribe Hatchery	2	0	2
Lake Mead Fish Hatchery	1	2,004	2,005
Not applicable	45	0	45
Office Cove backwater	1	0	1
Rivers Edge Golf Course Ponds Inlet and Riverside	1	0	1
Unknown	65	0	65
Willow Beach NFH	32	0	32
Total	530 (47 BONY) (47 FLSU) (436 RASU)	9,560 (5,732 BONY) (3,828 RASU)	10,090



Lower Colorado River Native Fish Database

PIT Tag Records Summary by Rearing Location in Reaches 4 & 5, 2016



Rearing location	Collected	Stocked	Total
Bubbling Ponds FH	0	9,017	9,017
Dexter NFH (SNARRC)	0	5,745	5,745
Total	0	14,7629 (5,745 BONY) (9,017 RASU)	14,762



Lower Colorado River Native Fish Database

PIT Tag Records Summary of RASU by Reach and Paired Data, 2016



Reach	Collected	Paired data	Avg DAL	Avg MAL	Avg YAL	DAL Min-Max
1	3	0	-	-	-	
2	175	154	3,275	109	9	168-8,102
3	436	369	1,563	52	4	20-3,415
4 & 5	0	0	-	-	-	-



Lower Colorado River Native Fish Database

PIT Tag Records Summary of RASU Collected with Rearing location and YAL in Reach 2, 2016, Part 1



Rearing location	N fish	YAL
Achii Hanyo	15	3-7
Arizona Juvenile	11	1-17
Boulder City Golf Course Ponds	3	17-20
Boulder City Wetlands Park	20	15-19
Bubbling Ponds FH	4	6-13
Dandy Cove	8	2-19
Davis Cove	3	6-16
Dexter NFH (SNARRC)	9	1-14
Nevada Egg	1	9
Nevada Larvae	2	5-21
North Chemehuevi Cove	14	2-20
North Nine Mile Cove	1	19
Overton Wildlife Management Area, Center Pond	3	2-3
South Sidewinder	2	18-20
Willow backwater	2	< 1-15



Lower Colorado River Native Fish Database

PIT Tag Records Summary of RASU Collected with Rearing location and YAL in Reach 2, 2016, Part 2



Rearing location	N fish	YAL
Willow Beach NFH	31	1-19
Yuma Cove	25	3-22
Total	154	-



Lower Colorado River Native Fish Database

PIT Tag Records Summary of RASU Collected and their YAL in Reach 3, 2016



Rearing location	N fish	YAL
Beal Slough	3	< 1
Bubbling Ponds FH	322	< 1-8
Cibola NWR High Levee Pond	6	< 1-5
Davis Cove	1	7
Emerald Canyon Golf Course Ponds	1	5
Hualapai Tribe Hatchery	2	< 1-5
Lake Mead Fish Hatchery	1	1
Office Cove backwater	1	4
Rivers Edge Golf Course Ponds Inlet and Riverside	1	3
Willow Beach NFH	31	1-9
Total	369	-



Lower Colorado River Native Fish Database

PIT Tag Records Summary of BONY by Reach and Paired Data, 2016



Reach	Collected	Paired data	Avg DAL	Avg MAL	Avg YAL	DAL Min-Max
1	0	0	-	-	-	-
2	0	0	-	-	-	-
3	47	47	14	<1	<1	14-16
4 & 5	0	0	-	-	-	-



Current Repatriated Razorback Sucker Population Estimate in Reach 2



N^*	1,707
95% Confidence Interval	
Lower	Upper
603	3,897

Current Repatriated Razorback Sucker Population Estimate in Reach 2



Year		N*	95% CI	
Stocking	Collection		Lower	Upper
2015	2016	1,707	603	3,897
2014	2015	2,230	922	5,963
2013	2014	2,525	1,180	5,741
2012	2013	1,854	941	3,782
2011	2012	2,577	1,139	6,284
2010	2011	2,966	1,509	6,063



Acknowledgements



**NFWG / LCR MSCP field crews at AZGFD, BR, M&A, NPS,
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**Hatchery crews at Achii Hanyo FH,
Bubbling Ponds FH, NDOW Overton
Management Area, SW Native Aquatic Resources &
Recovery Center, Lake Mead FH and Willow Beach NFH**

