Wertheim NWR Water Management Demonstration Project Data Report
Nekton Sampling
Area 2 (2003-2006)

Date	Station	Water Depth (cm)	Creek Depth (cm)	Tide	Habitat	Area (m^2)	Water Temp (C)	Salinity (ppt)	DO (mg/L)	*Angiulla rostrata*		*Apeltes quadracus*		*Callinectes sapidus*		*Cyprinodon variegates*		*Fundulus diaphanus*		*Fundulus heteroclitus*		*Fundulus luciae*		*Fundulud majalis*		*Lucania parva*		*Menidi* spp.		*Paleamontes*	*Bolinopsis infundibulum*	unknown	
										Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Total #	Total #	Avg. Size (mm)
10/8/2003	D-1	33	40	Ebb	Plugged Ditch	0.692	14.0	13.8	0.37												5												
10/8/2003	D-2	28	42	Ebb	Plugged Ditch	0.853	14.2	14.4	0.24												2												
10/8/2003	D-3	30	37	Ebb	Plugged Ditch	0.992	13.1	15.1	0.06											9	3												
10/8/2003	D-4	10	15	Ebb	Plugged Ditch	0.873	14.2	11.2	0.36																								
10/8/2003	D-5	21	30	Ebb	Plugged Ditch	0.856	14.8	10.8	0.16												2												
10/8/2003	D-6	20	20	Ebb	Plugged Ditch	0.840	14.3	14.7	0.21																								
10/8/2003	D-7	13	13	Ebb	Plugged Ditch	0.740	16.7	18	0.38																								
10/8/2003	D-8	14	14	Ebb	Plugged Ditch	0.870	15.3	16.7	4.1											44	2												
10/8/2003	D-9	23	23	Ebb	Plugged Ditch	0.657	13.7	16.7	5.75											15			2				60						
10/8/2003	D-10	36	36	Ebb	Plugged Ditch	1.145	14.3	NM	1.69											7	4						8						
6/14/2004	D-1	26	NM	Ebb	Plugged Ditch	0.770	19.8	10.2	NM																	1	43						
6/14/2004	D-2	29	NM	Ebb	Plugged Ditch	0.820	19.3	9.6	NM																								
6/14/2004	D-3	26	NM	Ebb	Plugged Ditch	0.770	19.4	16.9	NM																	1	15						
6/14/2004	D-4	11	NM	Ebb	Plugged Ditch	0.680	21.3	0.7	NM																	1	22						
6/14/2004	D-5	28	NM	Ebb	Plugged Ditch	1.010	20.1	9.1	NM																								
6/14/2004	D-6	25	45	Ebb	Plugged Ditch	0.910	20.5	10.9	NM											2	19.5												
6/14/2004	D-7	12	28	Ebb	Plugged Ditch	0.860	22.1	15.6	NM																							5	15.2
6/14/2004	D-8	11	38	Ebb	Plugged Ditch	0.770	22.7	19.1	NM																								
6/14/2004	D-9	20	35	Ebb	Plugged Ditch	0.920	21.1	22.4	NM																								
6/14/2004	D-10	33	45	Ebb	Plugged Ditch	0.770	21.3	16.2	NM											1	13											2	13
7/30/2004	D-1	29	43	Ebb	Plugged Ditch	0.900	23.6	12.6	0.15											3	23.3												
7/30/2004	D-2	32	40	Ebb	Plugged Ditch	0.800	23.2	16.1	3.00											9	21					5	21			5			
7/30/2004	D-3	27	34	Ebb	Plugged Ditch	0.880	24.0	17.6	3.50											7	31.7												
7/30/2004	D-4	24	32	Ebb	Plugged Ditch	0.990	24.2	15.4	0.20											11	24.5												
7/30/2004	D-5	35	42	Ebb	Plugged Ditch	1.120	21.4	13.5	4.10											51	32.4									3			
7/30/2004	D-6	27	40	Ebb	Plugged Ditch	0.750	23.7	11.9	0.66											2	34.5					3	22.6						
7/30/2004	D-7	12	20	Ebb	Plugged Ditch	0.540	23.7	14.6	1.75																	7	20.4						
7/30/2004	D-8	24	34	Ebb	Plugged Ditch	0.590	23.6	15.2	1.45											11	25					9	22.5			2			
7/30/2004	D-9	29	36	Ebb	Plugged Ditch	0.660	24.5	19.1	2.59											15	28.2					1	23			28			
7/30/2004	D-10	34	44	Ebb	Plugged Ditch	0.850	24.5	17.5	1.31											20	27.9					3	18						
9/15/2004	D-1	29	44	Flood	Plugged Ditch	0.550	20.1	13.3	3.60																	6	31						
9/15/2004	D-2	25	43	Flood	Plugged Ditch	0.380	20.5	14.4	3.00											3	27					8	23.4						
9/15/2004	D-3	23	43	Flood	Plugged Ditch	0.550	20.9	21.0	7.70											13	28.2					21	23.3			40			
9/15/2004	D-4	20	30	Flood	Plugged Ditch	0.560	20.8	16.6	1.80											4	32.3					17	25.7						
9/15/2004	D-5	29	37	Flood	Plugged Ditch	0.540	20.9	17.0	7.80											14	33.6					7	33.6						
9/15/2004	D-6	25	55	Flood	Plugged Ditch	0.420	21.3	16.8	12.50											6	32.3									2			
9/15/2004	D-7	7	19	Flood	Plugged Ditch	0.470	21.6	19.3	16.70											10	29.7					23	28.5						
9/15/2004	D-8	10	20	Flood	Plugged Ditch	0.350	24.3	24.5	0.50																	3	24.6						
9/15/2004	D-9	22	32	Flood	Plugged Ditch	0.450	22.4	25.4	0.40					1						1	42									29			
9/15/2004	D-10	31	46	Flood	Plugged Ditch	0.410	22.0	11.2	4.30					1						18	39.6					7	32.7			2			
6/9/2005	D1	NM	NM	Flood	Plugged Ditch	0.465	25.3	13.8	2.8									1	30	3	30					2	42.5						
6/9/2005	D2	32	NM	Flood	Plugged Ditch	0.468	24.5	7.9	2.4											3	30.8												
6/9/2005	D3	32	47	Flood	Plugged Ditch	1.009	25	13.9	0.5																								
6/9/2005	D4	10	30	Flood	Plugged Ditch	1.083	28.8	15.2	0.92																								
6/9/2005	D5	20	38	Flood	Plugged Ditch	0.959	28.9	12.6	0.67											1	61												
6/9/2005	D6	NM	NM	Flood	Plugged Ditch	0.704	27.36	12.6	0.5											1	50												
6/9/2005	D7	NM	NM	Flood	Plugged Ditch	0.603	26	12.3	0.9																	1	35						
6/9/2005	D8	13	28	Flood	Plugged Ditch	0.754	24.1	10.5	0.63																								
6/9/2005	D9	20	27	Flood	Plugged Ditch	0.892	25.9	9.5	0.15																	1	36						
6/9/2005	D10	10	19	Flood	Plugged Ditch	1.072	24	9	1.91																								
7/19/2005	D1	41	41	Flood	Plugged Ditch	0.361	25.3	10.4	0.12																								
7/19/2005	D2	42	42	Flood	Plugged Ditch	0.417	26.7	8.8	2.3																	2	-			2			
7/19/2005	D3	40	40	Flood	Plugged Ditch	0.470	27	13.9	0.06											1	26					2	19.5						
7/19/2005	D4	25	25	Flood	Plugged Ditch	0.560	26.9	8	0.7											5	26					2	20						
7/25/2005	D5	15	34	Flood	Plugged Ditch	0.725	24.6	15.6	-											3	25.3												
7/19/2005	D6	37	40	Flood	Plugged Ditch	0.817	27.3	2.9	-											13	25.2	2	35			3	31.3					2	17
7/19/2005	D7	14	16	Flood	Plugged Ditch	0.581	27.9	8.5	-											2	32					2	21.5					2	13.5
7/19/2005	D8	21	24	Flood	Plugged Ditch	0.804	27.5	9.8	-																								
7/19/2005	D9	20	26	Flood	Plugged Ditch	0.926	27.3	10.3	-																								
7/19/2005	D10	21	24	Flood	Plugged Ditch	0.817	27.8	9.4	-											5	26.8												
9/29/2005	D1	43	35	Ebb	Plugged Ditch	0.571	-	19	-																								
9/29/2005	D2	51	55	Ebb	Plugged Ditch	0.493	-	19	-											6	42.6					6	30.3			36		1	24
9/29/2005	D3	31.5	33.5	Ebb	Plugged Ditch	0.572	-	23	-											4	41.5					2	30			1			
9/29/2005	D4	35	35	Ebb	Plugged Ditch	0.444	-	21	-																								
9/29/2005	D5	53	53	Ebb	Plugged Ditch	0.575	-	22	-																					2			
9/29/2005	D6	53	55	Ebb	Plugged Ditch	0.832	-	21	-											13	43.5												
9/29/2005	D7	38	42	Ebb	Plugged Ditch	1.041	-	20	-											11	39.36					1	28			7			
9/29/2005	D8	35	51	Ebb	Plugged Ditch	0.873	-	23	-											7	32.8					5	19.2			16			
9/29/2005	D9	28	34	Ebb	Plugged Ditch	0.795	-	24	-											3	39.3									81			
9/29/2005	D10	41	45	Ebb	Plugged Ditch	1.205	-	25	-																					1			

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										Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Avg. Size (mm)	Total #	Total #	Total #	Avg. Size (mm)
5/31/2006	D1	23	43	Flood	Tidal Creek	0.624	17.2	3.4	0.5																						3		
5/31/2006	D2	75	82	Flood	Tidal Creek		24.2	7.8	9.5											20	75.6					3	80.3			1			
5/31/2006	D8	26	50	Flood	Ditch	0.829	24.5	17.4	5.76																								
5/31/2006	TC-1	20	40	Flood	Tidal Creek	0.883	17.2	11.7	0.2																						1		
5/31/2006	TC-2	60	83	Flood	Tidal Creek		24.3	6.7	7.69					1	101					360	58.2									1			
5/31/2006	P2-6-A	NM	NM	Flood	Pond	-	25.8	18.9	7.75											7	31.3												
7/12/2006	D-1	10	13	Flood	Ditch	0.585	22.4	2.3	0.9											2	15.5												
7/12/2006	D-2	31	35	Flood	Ditch	0.625	23.7	0.8	6.9																								
7/12/2006	D-8	13	16	Flood	Ditch	0.930	24.5	1.7	7.27																								
7/12/2006	TC-1	19	21	Flood	Tidal Creek	0.647	21.9	5.8	1.1											1	19												
7/12/2006	TC-2	24	32	Flood	Tidal Creek	0.103	24.3	1.9	7.38																								
7/12/2006	TC-4	21	25	Flood	Tidal Creek	0.807	23.7	1.1	4.1											3	24.6												
7/12/2006	P-2-3-B	43.5	12	Flood	Pond	-	27.5	6	3.4							3	22.6																
7/12/2006	P-2-5-A	16	17	Flood	Pond	-	25.4	5.1	5.9											2	28.5					2	40	3	33.6				
7/12/2006	P-2-6-A	10	13	Flood	Pond	-	26.9	5.9	3.85							6	16.1			1	20												
9/20/2006	D-1	41	17	Flood	Tidal Creek	0.154	22.6	18.2	5.4					1	-															2	3		
9/20/2006	D-2	54	54	Flood	Tidal Creek	0.753	22.1	11.9	6.4											1	35									69			
9/20/2006	D-8	16	25	Flood	Tidal Creek	0.506	22.9	19.1	6.5																					12			
9/20/2006	TC-1	NM	NM	Flood	Tidal Creek	0.987	21.9	16.8	2.8																			17	34.3	18			
9/20/2006	TC-2	60	60	Flood	Tidal Creek	0.999	22.4	6.9	5.2					1	62					9	66.2												
9/20/2006	TC-4	90	90	Flood	Tidal Creek	1.550	22.3	14.7	6.1																					26			
9/20/2006	P-2-3-B	NM	NM	Flood	Pond	-	21.2	11.1	1.19							4	23.25			2	32.5									9			
9/20/2006	P-2-5-A	NM	NM	Flood	Pond	-	22.5	15.3	0.59							26	24									1	27	7	26.28	32			
9/20/2006	P-2-6-A	NM	NM	Flood	Pond	-	23.3	14.6	1.56					2	80	9	25.4			1	32							2	28	23			
6/22/2007	D-1	51	77	Flood	Tidal Creek	0.680	23.2	7	5.76											5						1							
6/22/2007	D-2	52	70	Flood	Tidal Creek	0.538	22.6	9.9	0.95											8						1							
6/22/2007	D-8	NM	NM	Flood	Tidal Creek	0.271	23.2	13.1	NM											3													
6/22/2007	TC-1	36	55	Flood	Tidal Creek	0.786	25.2	9.2	5.39							1				296						2							
6/22/2007	TC-2	40	60	Flood	Tidal Creek	0.759	24.2	9.1	1.59											3													
6/22/2007	TC-3	50	60	Flood	Tidal Creek	0.872	23.6	10	0.93																								
6/22/2007	P2-3-B	16	NM	Flood	Pond	-	24.7	12.7	8.12							10				4		1											
6/22/2007	P2-5-A	52	NM	Flood	Pond	-	24.1	17.6	8.25							2				12				1		1							
6/22/2007	P2-6-A	75	NM	Flood	Pond	-	26.2	16.7	NM							7				14						8							
8/1/2007	D-1	54	69	Flood	Tidal Creek	0.671	25.5	5.1	2.49											8								4					
8/1/2007	D-2	68	13	Flood	Tidal Creek	0.617	28.4	6.6	8.6																	30							
8/1/2007	D-8	54	55	Flood	Tidal Creek	0.565	29.9	10.9	7.74																								
8/1/2007	TC-1	49	49	Flood	Tidal Creek	0.912	26.3	6.6	1.8							11				15						2							
8/1/2007	TC-2	80	80	Flood	Tidal Creek	0.761	27.4	4.7	7.13																								
8/1/2007	TC-3	69	69	Flood	Tidal Creek	0.758	28.2	5.2	5.57																								
8/1/2007	P2-3-B	20	NM	Flood	Pond	-	30.9	10.9	0.84							40				5						11							
8/1/2007	P2-5-A	34	NM	Flood	Pond	-								1		2				5						6							
8/1/2007	P2-6-A	16	NM	Flood	Pond	-	27.9	11.4	1.39							5				1						3							
9/28/2007	D-1	>100	>120	Flood	Tidal Creek	0.829	22.7	9.6	5.12					1																			
9/28/2007	D-2	80	83	Flood	Tidal Creek	0.908	22.6	10.1	5.63																								
9/28/2007	D-8	60	NM	Flood	Tidal Creek	0.075	22.7	6.2	7.32																								
9/28/2007	TC-1	65	23	Flood	Tidal Creek	0.786	22.5	8	4.53																					3			
9/28/2007	TC-2	86	91	Flood	Tidal Creek	0.756	22.5	7	5.5																					1	1		
9/28/2007	TC-3	83	83	Flood	Tidal Creek	0.565	21.4	7.4	0.32											1										11			
9/28/2007	P2-3-B	15	NM	Flood	Pond	-	22.2	8.1	1.2																								
9/28/2007	P2-5-A	NM	NM	Flood	Pond	-	22.8	13.2	5.97							15						15				1		3					
9/28/2007	P2-6-A	NM	NM	Flood	Pond	-	22.6	11.4	1.57							35						1						5					

Notes: NM- not measured due to equipment failures or sampling conditions
"-" measurement not applicable