

DEVILS RIVER 2004
27-Jul-04

	7/27/04		7/27/04		7/27/04		7/27/04		RJE/DW	JH/JM	JH/JM	RKB/JH	RJE/DW	JH/JM						
	crew	location	crew	location	crew	location	crew	location												
	GPG et al.	Pecan Sp	GPG et al.	Hudspeth main rd xing	GPG et al.	Baker's xing	Unmack et al.	Baker's xing												
	30.06431	101.1835	30.00872	101.1706	29.96619	101.1488	29.96539	101.1476	29.96119	101.1433	29.96119	101.1433	29.95521	101.1401						
	925-955	1040-1115	1040-1115	1040-1115	1155-1215	10' seine	1155-1215	20' seine	830-845	845-856	856-905	855-920	925-942	957-1024						
	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)						
<i>Lepisosteus oculatus</i>																				
<i>Lepisosteus osseus</i>																				
<i>Astyanax mexicanus</i>	3	31,32,37	10	57-75			42	27-70	1	47			8	45-73			2	46,47		
<i>Campostoma anomalum</i>																				
<i>Cyprinus carpio</i>																				
<i>Cyprinella proserpina</i>	3	38,38,41	7	20-44			3	24,28,36	1	26			2	27, 31						
<i>Cyprinella venusta</i>			21	31-63	4	44-71	21	37-75	73	35-88	1	63	6	47-67	19	29-72	5	40-54	26	40-78
<i>Dionda argentosa</i>	1	51	275	23-60	102	23-36	186	26-53	6	22-33	3	28,28,32			3	21,33,40	14	29-40	9	40-48
<i>Dionda diaboli</i>					87	20-55	61	26-47							10	25-47				
<i>Notropis amabilis</i>	223	20-42	142	30-47	99	21-43	268	26-53	8	38-47			26	17-42	132	22-47	2	31, 32	52	27-46
<i>Notropis stramineus</i>																			1	52
<i>Pimephales vigilax</i>																				
<i>Carpododes carpio</i>																				
<i>Ictiobus bubalus</i>																				
<i>Moxostoma congestum</i>	2	205, 220																		
<i>Ameiurus melas</i>																				
<i>Ameiurus natalis</i>																				
<i>Ictalurus furcatus</i>																				
<i>Ictalurus lupus</i>																				
<i>Ictalurus punctatus</i>																				
<i>Pylodictis olivaris</i>																				
<i>Cyprinodon eximius</i>																				
<i>Gambusia geiseri</i>	21	18-32	62	16-36																
<i>Gambusia speciosa</i>	1	20	33	15-40					2	18, 23									1	22
<i>Lepomis auritus</i>	43	27-132	2	36, 50	1	75	6	23-75	2	85, 120			1	112	1	25	4	22,37,87,125		
<i>Lepomis cyanellus</i>																				
<i>Lepomis megalotis</i>	2	89, 96	2	54, 55	5	17-20, 61	1	73												
<i>Lepomis macrochirus</i>	4	44-55																		
<i>Micropterus dolomieu</i>			1	94					2	65, 68									2	70,103
<i>Micropterus salmoides</i>	5	95-200			11	45-95	13	41-93	2	44, 53	1	48	1	60			1	47	2	52,58
<i>Etheostoma grahami</i>	5	29-37	2	30, 37	2	28, 29	4	26-31									2	33, 34	1	31
<i>Cichlasoma cyanoguttatum</i>	2	18, 19	42	13-64	6	18-28, 78	1	30			1	17					6	15-31	3	21,22,37
<i>Oreochromis aureus</i>	4	165-330																		

stream width (m)	1 - 7	25-100	70	70	15	50	50	55	40	70
stream depth (m)	0.3 - 2.5	0.50	0.60	0.60	0.60			1.00	<1	
flow (m/s)	0.03 - .158	0.21	0.39	0.39	1.705				0.24	
temp (°C)										
substrate (1-7)	1,2,4	1, 5	1,3,4	1,3,4	5,6	7	7	2,3	7	7
vegetation type (*)	1	1	1.00	1.00	1	1	1	1	1	1
vegetation density (% cover)	1	80	100	100	5	40	40	30	90	30

*
0 = none
1 = emergent macrophyte
2 = filamentous algae
3 = submerged macrophyte
4 = Chara

Headwaters to
Baker's Crossing

RKB/JH	RJE/DW	JH/JM	RKB/JLH	RJE/DW	JH/JM	RKB/JLH	RJE/DW	JH/JM	JH/JM	RKB/JLH	RJE/DW	RKB/JLH
29.95378	29.95168	29.9454	29.93941	29.93672	29.92981	29.92278	29.91851	29.91193	29.91193	29.9057	29.90241	29.89991
101.1129	101.1071	101.1018	101.0971	101.094	101.087	101.0869	101.0899	101.0942	101.0942	101.0955	101.0959	101.0963
1012-1040	1040-1100	1120-1140	1130-1153	1150-1215	1315-1335	1325-1338	1335-1400	1435-1456	1435-1456	1447-1510	1450-1515	1535-1600

#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)	#	(size)		
		4	39-80	1	62					1	46	1	48			20	54-80			1	28	5	38-48	11	30-55
		18	17-52	10	33-44			3	31,35,39					7	31-35	28	30-47	1	31	19	28-40		3	35,37,42	
5	40-66	19	23-75	31	35-75	24	28-54	56	35-76	16	37-63	16	30-60	7	38-59	13	18-63	20	34-71	6	39-72	4	41-50	30	30-60
8	27-35	4	21-61							40	26-45	5	31-38	10	30-55					92	22-36	8	25-37	3	33,35,41
38	25-40			1	30					26	28-36	4	32-48	5	38-46					57	26-33	14	28-44		
1	38	1	21	45	26-42	5	16-24,36			50	36-51	11	37-43	100	25-51	5	40-55	7	38-45			1	52	3	20,28,34
		12	35-50	1	50			14	19-51	2	40, 47	29	20-46					7	38-43	10	37-45				
		1	81																						
2	36, 97																								
1	28	1	18																						
		14	10-31	2	19, 22	10	15-30	3	17,18,19	1	37	4	25-38							2	25, 67	1	57	7	19-28
		1	42	1	72	1	96	1	68	1	47	4	20-55			1	56			1	105			2	28, 59
				1	68	1	66	1	59	1	56									1	61	4	54-87		
1	165									1	57													1	67
												1	26											1	35
		9	14-17	4	15-27					9	15-32	4	22-36	2	16, 17							2	18, 25	1	19

70	40	70	50	20	70	70	40	70	40	70	70	100	10	150
1.50	0.50		0.30	0.20			1.00		1.00				0.50	0.25
	1.75			.65					.9				.42	
4,6	7	6,7	7	7	7	7	7	2,5	7	2,5	1	2,7	2,5,6	1,5
1	1	1	1	0	1	1	3	1	1	1	1	1	1	1
15	5	10	10		50	20	20	50	15	15	15	50	50	50