

APPENDIX C

Fish Data Summary Tables

Table C1. Sample date, station length, electrofishing gear type used and sampling effort statistics for fish sample stations in the Sand Hill River watershed in 2005.

Stream	Station ID	Sample Date	Station Length (ft)	Mean		Station Area (ft ²)	Gear Type Used	Sampling Effort (sec)
				Stream Width (ft)	Stream Area (ft ²)			
Sand Hill River	SHR312	7/28/05	1,225	35.0	42,875	Tote Barge	5,374	
Sand Hill River	SHR412	8/18/05	619	17.7	10,956	Tote Barge	1,942	
Sand Hill River	SHR512	7/13/05	445	12.7	5,652	Backpack	2,183	
Kittleson Creek	KC111	7/19/05	266	7.6	2,022	Backpack	1,600	
Kittleson Creek	KC112	7/27/05	439	12.5	5,488	Backpack	1,307	
Unnamed Creek	UK100	7/20/05	310	8.9	2,759	Backpack	1,152	

Table C2. Number and weight of each fish species captured using conventional electrofishing gear in the Sand Hill River watershed in 2005.

Species	KC111		KC112		SHR312		SHR412		SHR512		UK100	
	No.	Wt. (g)	No.	Wt. (g)	No.	Wt. (g)	No.	Wt. (g)	No.	Wt. (g)	No.	Wt. (g)
Common shiner	33	408.4	1	32.6	26	331.4	29	552.8	3	6.7		
Golden shiner	14	45.3	6	3.0	136	264.5	3	15.0	45	169.2		
Bigmouth shiner	9	12.6			35	34.2	3	4.3	332	525.4		
Northern redbelly dace	2	3.7	2	1.1			17	71.8	18	73.1		
Finescale dace							74	728.3				
Pearl dace	6	15.1	7	18.4	272	384	300	719.6	310	494	89	216.2
Fathead minnow	37	211			41	140.4			27	79		
Western blacknose dace					3	15.6						
Longnose dace			14	289.2	170	867.6	76	1,391.8	4	21.1	9	5.2
Creek chub	80	1,370.5	3	135.5	16	171.7	17.8	8,183.1	1	3.5	26	21.9
White sucker	20	476.4					1	65.5	2	99.5		
Black bullhead	1	18.8							1	19.9		
Brown bullhead	1	69.4			26	16.4						
Central mudminnow	11	40.7	5	22.6	31	141.9	369	2,757.8	38	228.4	1	5.3
Brook stickleback			5	4.2	6	4.6	1	1.2	169	131.4	3.9	29.8
Iowa darter			4	7.7					10	13.3		
Johnny darter	3	5.4			51	91.7	17	29.1	3	4.4		
Yellow perch	8	140	4	36.7	4	22.4	188	3,784.7	1	11.3		
Blackside darter					9	21.4						
Total	225	2,817.3	51	551	826	2,507.8	1,257	1,825.1	964	1,880.2	167	281.9

Table C3. Fish species composition at station KC111 in Kittleson Creek.

<u>Species present</u>	<u>Number</u>	<u>Percent of Total Number</u>	<u>Wt. (g)</u>	<u>Percent of Total Weight</u>
Common shiner	33	14.7	408.4	14.5
Bigmouth shiner	14	6.2	45.3	1.6
Northern redbelly dace	9	4.0	12.6	0.4
Finescale dace	2	0.9	3.7	0.1
Fathead minnow	6	2.7	15.1	0.5
Western blacknose dace	37	16.4	211	7.5
Creek chub	80	35.6	1,370.5	48.6
White sucker	20	8.9	476.4	16.9
Black bullhead	1	0.4	18.8	0.7
Brown bullhead	1	0.4	69.4	2.5
Central mudminnow	11	4.9	40.7	1.4
Johnny darter	3	1.3	5.4	0.2
Yellow perch	8		140	5.0
Total	225		2,817.3	

Table C4. Fish species composition at station KC112 in Kittleson Creek.

<u>Species present</u>	<u>Number</u>	<u>Percent of Total Number</u>	<u>Wt. (g)</u>	<u>Percent of Total Weight</u>
Common shiner	1	2.0	32.6	5.9
Golden shiner	6	11.8	3.0	0.5
Finescale dace	2	3.9	1.1	0.2
Fathead minnow	7	13.7	18.4	3.3
Creek chub	14	27.5	289.2	52.5
White sucker	3	5.9	135.5	24.6
Central mudminnow	5	9.8	22.6	4.1
Brook stickleback	5	9.8	4.2	0.8
Iowa darter	4	7.8	7.7	1.4
Yellow perch	4	7.8	36.7	6.7
Total	51		551	

Table C5. Fish species composition at station SHR312 in Sand Hill River.

<u>Species present</u>	<u>Number</u>	<u>Percent of Total Number</u>	<u>Wt. (g)</u>	<u>Percent of Total Weight</u>
Common shiner	26	3.1	331.4	13.2
Bigmouth shiner	136	16.5	264.5	10.4
Northern redbelly dace	35	4.2	34.2	1.4
Fathead minnow	272	32.9	384	15.3
Western blacknose dace	41	4.9	140.4	5.6
Longnose dace	3	0.4	15.6	0.6
Creek chub	170	20.6	867.6	34.6
White sucker	16	1.9	171.7	6.9
Brown bullhead	26	3.1	16.4	0.7
Central mudminnow	31	3.8	141.9	5.7
Brook stickleback	6	0.7	4.6	0.2
Johnny darter	51	6.2	91.7	3.7
Yellow perch	4	0.5	22.4	0.9
Blackside darter	9	1.1	21.4	0.9
Total	826		2,507.8	

Table C6. Fish species composition at station SHR412 in Sand Hill River.

<u>Species present</u>	<u>Number</u>	<u>Percent of Total Number</u>	<u>Wt. (g)</u>	<u>Percent of Total Weight</u>
Common shiner	29	2.3	552.8	3.0
Bigmouth shiner	3	0.2	15.0	0.1
Northern redbelly dace	3	0.2	4.3	<0.1
Finescale dace	17	1.4	71.8	0.4
Pearl dace	74	5.9	728.3	4.0
Fathead minnow	300	23.9	719.6	3.9
Creek chub	76	6.0	1,391.8	7.6
White sucker	178	14.2	8,183.1	44.7
Black bullhead	1	<0.1	65.5	0.4
Central mudminnow	369	29.4	2,757.8	15.1
Brook stickleback	1	<0.1		
Iowa darter	1	<0.1	1.2	<0.1
Johnny darter	17	1.4	29.1	0.2
Yellow perch	188	15.0	3,784.7	20.7
Total	1,257		1,825.1	

Table C7. Fish species composition at station SHR512 in Sand Hill River.

<u>Species present</u>	<u>Number</u>	<u>Percent of Total Number</u>	<u>Wt. (g)</u>	<u>Percent of Total Weight</u>
Common shiner	3	0.3	6.7	0.4
Bigmouth shiner	45	4.7	169.2	9.0
Northern redbelly dace	332	34.4	525.4	27.9
Finescale dace	18	1.9	73.1	3.9
Fathead minnow	310	32.2	494	26.3
Western blacknose dace	27	2.8	79	4.2
Creek chub	4	0.4	21.1	1.1
White sucker	1	0.1	3.5	0.2
Black bullhead	2	0.2	99.5	5.3
Brown bullhead	1	0.1	19.9	1.1
Central mudminnow	38	3.9	228.4	12.1
Brook stickleback	169	17.5	131.4	7.0
Iowa darter	10	0.1	13.3	0.7
Johnny darter	3	0.3	4.4	0.2
Yellow perch	1	0.1	11.3	0.6
Total	964		1,880.2	

Table C8. Fish species composition at station UK100 in an unnamed creek.

<u>Species present</u>	<u>Number</u>	<u>Percent of Total Number</u>	<u>Wt. (g)</u>	<u>Percent of Total Weight</u>
Northern redbelly dace	1	0.6	1.0	0.4
Finescale dace	2	1.2	2.5	0.9
Fathead minnow	89	53.3	216.2	76.7
Creek chub	9	5.4	5.2	1.8
White sucker	26	15.6	21.9	7.8
Central mudminnow	1	0.6	5.3	1.9
Brook stickleback	3.9	2.3	29.8	10.6
Total	167		281.9	

Table C9. Number of fish caught per electrofishing hour (CPUE) at stations within the Sand Hill River watershed in 2004.

	<u>KC111</u>	<u>KC112</u>	<u>SHR312</u>	<u>SHR412</u>	<u>SHR512</u>	<u>UK100</u>
Sampling Effort (sec.)	1,600	1,307	5,374	1,942	2,183	1,152
<u>Species</u>	<u>CPUE</u>	<u>CPUE</u>	<u>CPUE</u>	<u>CPUE</u>	<u>CPUE</u>	<u>CPUE</u>
Common shiner	74	3	17	54	5	
Golden shiner		17				
Bigmouth shiner	32		91	6	74	
Northern redbelly dace	20		23	6	548	3
Finescale dace	5	6		32	30	6
Pearl dace				137		
Fathead minnow	14	19	182	556	511	278
Western blacknose dace	83		27		45	
Longnose dace			2			
Creek chub	180	39	114	141	7	28
White sucker	45	8	11	330	2	81
Black bullhead	2			2	3	
Brown bullhead	2		17		2	
Central mudminnow	25	14	21	684	63	3
Brook stickleback		14	4	2	279	12.2
Iowa darter		11		2	16	
Johnny darter	7		34	32	5	
Yellow perch	18	11	3	349	2	
Blackside darter			6			
Total	506	140	553	2,330	1,590	522