Coldwater River National Wildlife Refuge
Waterfowl Survey
Ground Count - from vehicle
FY12

	Unit	Total ducks	Total geese	Total coots	Unknown/ Misc. ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. green-winged teal	Wood duck	Scaup/ ring-necked duck	Bufflehead	Ruddy duck	Hooded Merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
10/28/2011	Ponds	1138	88	464	0	25	149	104	180	126	554	0	0	0	0	0	464	135	88	0
	Borrow pits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick Tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	1138	88	464	0	25	149	104	180	126	554	0	0	0	0	0	464	135	88	0
11/14/2011	Ponds	9773	276	646	0	2565	712	333	279	158	5623	10	83		10	1	646	1	275	0
	Borrow pits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick Tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	9773	276	646	0	2565	712	333	279	158	5623	10	83	0	10	1	646	1	275	0
11/30/2011	Ponds	6474	1785	270	0	2278	598	31	92	22	3361	0	104	3	13	0	270	0	945	840
	Borrow pits	28	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick Tract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	6502	1785	270	0	2306	598	31	92	22	3361	0	104	3	13	0	270	0	945	840
12/19/2011	Ponds	8902	761	197	0	1776	2449	112	1574	52	2567	0	222	0	181	0	197	0	761	0
	Borrow pits	37	0	0	0	33	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick	7	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
	Total	8946	761	197	0	1809	2453	112	1574	52	2567	0	229	0	181	0	197	0	761	0
1/6/2012	Ponds	13420	896	123	404	2027	3207	254	2195	16	4667	2	343	26	279	0	123	0	896	0
	Borrow pits	53	0	0	0	45	6	0	0	2	0	0	0	0	0	0	0	0	0	0
	Warwick	15	0	0	0	8	0	0	0	0	2	5	0	0	0	0	0	0	0	0
	Total	13488	896	123	404	2080	3213	254	2195	18	4669	7	343	26	279	0	123	0	896	0
1/18/2012	Ponds	8410	763	347	0	1235	1843	169	1731	60	2483	2	707	24	186	0	347	0	763	0
	Borrow pits	68	0	0	0	38	30	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick	65	0	0	0	63	0	0	0	0	0	2	0	0	0	0	0	0	0	0
	Total	8543	763	347	0	1336	1873	169	1731	60	2483	4	707	24	186	0	347	0	763	0
2/2/2012	Ponds	6026	264	678	5	1164	1378	72	1345	9	1312	0	410	33	298	0	678	0	263	1
	Borrow pits	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick	0	0	0	0	18	0	0	0	0	0	6	3	0	0	0	0	0	0	0
	Total	6026	264	678	5	1184	1378	72	1345	9	1312	6	413	33	298	0	678	0	263	1
2/21/2012	Ponds	3036	960	671	0	147	540	28	1556	1	387	0	86	36	235	0	671	0	954	6
	Borrow pits	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	Warwick	304	0	6	0	129	5	0	0	0	4	8	158	0	0	0	6	0	0	0
	Total	3342	960	677	0	276	547	28	1556	1	391	8	244	36	235	0	677	0	954	6

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
2/21/2012

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
A	11:39	11:42	Excellent	1	108	1	5		27	7		4		10		56			4			5			1
B	11:28	11:34	Excellent	1	137	0	64		2	109		19								7		64			
C	11:45	11:54	Excellent	1	228	0	70		2	34	6	129		10		46				1		70			
D	11:11	11:18	Excellent	1	311	0	0			40	4	100		165		2									
E	11:56	12:03	Excellent	1	321	0	90			130		180				7			1	3		90			
F	11:06	11:10	Excellent	1	34	0	34			10		5				4			15			34			
G	12:05	12:13	Excellent	1	159	398	0			15		65		35		44								395	3
H	11:00	11:06	Excellent	1	72	0	106			46						2				24		106			
I	9:42	9:49	Excellent	2	61	0	21		8	8		26		10		4				5		21			
J	9:37	9:42	Excellent	2	4	0	60		4													60			
K	9:49	10:00	Excellent	1	74	0	146			66		4				2			2			146			
L	9:20	9:35	Excellent	1	398	111	19		6	17	2	308		1		46		4	8	4		19		110	1
M	10:04	10:13	Excellent	1	194	255	4		2	20	6	168										4		255	
N	9:13	9:20	Excellent	2	32	0	0						1			3		16		12					
PP	10:15	10:19	Excellent	1	13	0	0		13																
P	9:08	9:13	Excellent	1	95	0	0					76				6			5	8					
Q	10:19	10:25	Excellent	1	101	6	7		14			71				7				9		7		5	1
R	9:05	9:08	Excellent	2	0	0	0																		
S	10:27	10:40	Excellent	1	232	4	0		5		4	171		52										4	
T	8:55	9:05	Excellent	1	166	0	20		4	28		105		24		4			1			20			
U	10:40	10:46	Excellent	1	99	185	0		40		6	48								5				185	
V	8:51	8:55	Excellent	2	14	0	24			10		4										24			
W	10:48	10:51	Excellent	1	183	0	0		20			75		80						8					
X	8:49	8:51	Excellent	2	0	0	1															1			
Borrow pits	8:41	8:46	Good	1	2	0	0			2															
South Levee					0	0	0																		
Warwick Tract	8:00	8:28	Good	2	304	0	6		129	5				4			8			158		6			
Total on Ponds					3038	960	671	0	147	540	28	1556	1	387	0	235	0	20	36	86	0	671	0	954	6
Totals					3342	960	677	0	276	547	28	1556	1	391	0	235	8	20	36	244	0	677		954	6
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose

51 F, Clear, sunny

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
2/21/2012

Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	Dark Ibis
1																
																5
				25												
														1		
											1					
				42												
				30												
	1															
											2					
		3														
1	1	0	0	97	0	0	0	0	0	0	1	0	0	1	0	
1	1	3	0	97	0	0	0	0	0	0	3	0	0	1	0	
Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-Shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
2/2/2012

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
A	12:30	12:36	Excellent	1	66	0	3		39					2		25						3			
B	12:24	12:29	Excellent	1	203	0	20		36	143		24										20			
C	12:36	12:45	Excellent	2	524	0	80			300		70		10		130			4	10		80			
D	12:14	12:18	Excellent	1	148	0	0		2		2	48		96											
E	12:45	12:53	Excellent	2	550	0	100			250		80				20				200		100			
F	12:06	12:11	Excellent	2	33	0	43			2		2				6			19	4		43			
G	12:53	12:56	Excellent	1	362	0	0			50		78		205		29									
H	11:59	12:06	Excellent	1	167	0	54			94		18		2		5				50		54			
I	10:29	10:37	Excellent	2	146	0	50		14	54		36		22		20						50			
J	10:20	10:29	Excellent	2	22	0	47		10			12										47			
K	10:37	10:47	Excellent	2	354	0	200			300		50							4			200			
L	9:53	10:17	Excellent	1	375	0	25		2	44	13	175		76		49		1	6	9		25			
M	10:49	10:57	Excellent	2	619	167	0		50	4	6	415		144										167	
N	9:44	9:53	Excellent	2	158	50	0		24	2				2		2		4		124				50	
PP	10:57	11:03	Excellent	2	326	8	0		296					30										8	
P	9:38	9:44	Excellent	2	87	0	0		54	2		27		3		1									
Q	11:03	11:09	Excellent	1	400	4	19		285		22	83				8				2		19		3	1
R	9:34	9:38	Excellent	2	8	0	4		6	2												4			
S	11:11	11:32	Excellent	1	621	34	0		100		6	80		435										34	
T	9:10	9:31	Excellent	1	251	1	26		52	68	4	52	9	55		3				8		26		1	
U	11:32	11:39	Excellent	1	324	0	0		133	59	19	27		86											
V	9:04	9:10	Excellent	2	43	0	7		32	2		6								3		7			
W	11:39	11:42	Excellent	1	237	0	0		27	2		64		144											
X	9:02	9:04	Excellent	3	2	0	0		2																
Borrow pits	8:56	9:00	Good	2	2	0	0		2																
South Levee					0	0	0																		
Warwick Tract	8:29	8:44	Good	2	27	0	0		18								6			3					
Total on Ponds					6026	264	678	0	1166	1378	72	1345	9	1312	0	298	0	5	33	410	0	678	0	263	1
Totals					6055	264	678	0	1184	1378	72	1345	9	1312	0	298	6	5	33	413	0	678		263	1
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose

30 F, sunny, clear, rain yesterday, Ice in shallows.

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
2/2/2012

Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	Dark Ibis
1		1								1						
		2														
			5	141												
			1													
										1						
1	0	3	6	141	0	0	0	0	0	1	0	0	0	0	0	
1	0	3	6	141	0	0	0	0	0	2	0	0	0	0	0	
Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-Shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
1/18/2012

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
A	11:55	12:00	Excellent	1	325	2	10		25			68		195		34				3		10		2	
B	11:47	11:53	Excellent	1	420	0	20		50	220		150										20			
C	12:02	12:09	Excellent	2	530	0	10		2	250		160				78				40		10			
D	10:42	10:47	Good	1	410	71	0		20	90	10	120		170										71	
E	12:11	12:19	Excellent	1	750	0	25			200		30				20				500		25			
F	10:48	10:52	Excellent	1	299	0	20		20	40	4	160		50		2			19	4		20			
G	12:20	12:23	Excellent	1	722	110	0				4	253		450		15								110	
H	11:00	11:02	Excellent	1	320	0	75		15	200		25		60						20		75			
I	10:27	10:36	Excellent	2	281	0	50		11	109	8	69		61						3		50			
J	10:09	10:20	Excellent	2	176	0	41		74	66	4	32										41			
K	10:36	10:42	Excellent	1	420	0	30		50	250		120										30			
L	9:54	10:06	Excellent	1	401	12	32		16	118	14	144		70		37			2			32		12	
M	10:55	11:00	Excellent	1	395	1	0		86	114	13	102		80										1	
N	9:48	9:54	Excellent	2	166	17	0		6	8		22								130				17	
PP	11:06	11:10	Excellent	2	303	0	0		303																
P	9:36	9:45	Excellent	2	176	4	0		42	26	2	64		40			2							4	
Q	11:10	11:15	Excellent	1	582	315	4		228		24	30		300								4		315	
R	9:32	9:36	Excellent	2	16	0	6		14										2			6			
S	11:15	11:18	Excellent	1	140	0	0					20		120											
T	9:18	9:32	Excellent	1	464	21	10		74	72	14	77	60	162					1	4		10		21	
U	11:19	11:26	Excellent	1	440	210	0		15	10	60			355										210	
V	9:11	9:18	Excellent	3	202	0	14		120	30	12	40										14			
W	11:26	11:30	Excellent	1	468	0	0		60	10		45		350						3					
X	9:08	9:10	Excellent	3	4	0	0		4																
Borrow pits	8:54	9:07	Excellent	2	68	0	0		38	30															
South Levee					0	0	0																		
Warwick Tract	8:18	8:38	Good	2	65	0	0		63								2								
Total on Ponds					8410	763	347	0	1235	1843	169	1731	60	2483	0	186	2	0	24	707	0	347	0	763	0
Totals					8543	763	347	0	1338	1843	169	1731	60	2483	0	186	4	0	24	707	0	347		763	0
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose

30 F, sunny, clear, rain yesterday, ice in shallows.

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
1/16/2012

Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	Dark Ibis
1																
1																
										1						
										1						
			1													
												1				
2										1						
1		3														
2	0	0	1	0	0	0	0	0	0	2	1	0	0	0	0	
5	0	3	1	0	0	0	0	0	0	3	1	0	0	0	0	
Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-Shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
1/6/2012

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
A	10:57	11:00	Excellent	1	185	28	0		20			10		75		80								28	
B	10:53	10:57	Excellent	2	222	0	0		26	154		42													
C	11:00	11:08	Excellent	2	1225	15	0		145	150	10	150		600		180				10				15	
D	9:53	10:00	Good	1	318	0	0		22	116		30		150											
E	11:08	11:17	Excellent	3	1000	0	0		40	100	40	300		300						220					
F	10:00	10:04	Excellent	2	1035	0	0		100	470	10	140		300					15						
G	11:18	11:24	Excellent	1	1013	105	0			34	16	240		720		3								105	
H	10:06	10:17	Excellent	2	430	0	0		10	400		20													
I	9:42	9:49	Excellent	3	337	0	10		22	187		16		112								10			
J	9:38	9:42	Excellent	3	106	0	35		30	60	8	8										35			
K	9:49	10:00	Excellent	3	496	0	20	400	6	40				50								20			
L	9:28	9:35	Excellent	2	694	0	50		10	350	20	75	2	200		30			7			50			
M	10:06	10:17	Excellent	2	1034	66	0		22	750	6	200		56										66	
N	9:19	9:28	Excellent	2	513	0	0		56	66	20	100	2	150		2		4		113					
PP	10:17	10:23	Excellent	1	465	0	0		465																
P	9:09	9:19	Excellent	2	622	0	0		370	84	50	90	6	20			2								
Q	10:22	10:25	Excellent	2	584	0	0		146		14			424											
R	9:08	9:09	Excellent	3	2	0	2		2													2			
S	10:25	10:31	Excellent	2	614	150	0		14					600										150	
T	8:52	9:07	Excellent	2	1053	22	0		219	206	18	400	2	200		4			4					22	
U	10:31	10:38	Excellent	2	4	490	0		4															490	
V	8:43	8:52	Excellent	3	444	0	6		206	40	20	74	4	100								6			
W	10:38	10:41	Excellent	2	1024	20	0		92		22	300		610										20	
X	8:41	8:43	Excellent	3	0	0	0																		
Borrow pits	8:33	8:40	Excellent	2	53	0	0		45	6			2												
South Levee					0	0	0																		
Warwick Tract	7:57	8:24	Excellent	2	15	0	0		8					2			5								
Total on Ponds					13420	896	123	400	2027	3207	254	2195	16	4667	0	279	2	4	26	343	0	123	0	896	0
Totals					13488	896	123	400	2080	3213	254	2195	18	4669	0	279	7	4	26	343	0	123		896	0
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring necked duck	Hooded merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose

Clear and cool 37 F. Otter on Warwick Tract.

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
1/6/2012

Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	Dark Ibis
1																
											1					
										1					1	
															1	
										1						
										1	1					
1																
		1														4
2		1														
4		2										1				
2	0	1	0	0	0	0	0	0	0	3	2	0	0	0	2	
8	0	4	0	0	0	0	0	0	0	3	2	1	0	0	2	
Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	Red-Shouldered Hawk	American kestrel	Belted kingfisher	Bald eagle	

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
12/~~28~~/2011
19

Pond	Start	Finish	Water Condition	Vegetation (1-eparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Redhead	Bufflehead	Scaup/ ring-necked duck	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
A	11:22	11:40	excellent	1	623	0	10		30	81	8	124		100		81		2		197	10			
B	11:21	11:22	excellent	2	120	0	0		50	70														
C	11:41	11:45	excellent	2	149	0	3			57		20		45		27					3			
D	10:24	10:32	excellent	1	548	35	12		84	84	10	160		210							12		35	
E	11:45	11:48	excellent	3	1190	0	10			600		370		150		70					10			
F	10:33	10:37	excellent	2	786	0	20		164	2	10	50	20	540							20			
G	11:49	11:53	excellent	1	602	0	0			357	10	157		275		3								
H	10:38	10:46	excellent	2	450	0	50			350		25		75							50			
I	10:13	10:17	excellent	3	111	0	6		17	94											6			
J	10:01	10:13	excellent	3	126	0	40		20	46	2	58									40			
K	10:18	10:37	excellent	3	387	0	26		151			154		82							26			
L	9:48	10:01	excellent	2	894	70	6		120	280	50	160	4	280							6		70	
M	10:38	10:46	good	2	155	0	4		4	145		6									4			
N	9:38	9:48	good	2	230	36	0		85	50		55	12	5						23			36	
PP	10:47	10:52	excellent	1	466	8	0		466														8	
P	9:24	9:38	excellent	2	465	49	0		116	121	16	182	10	38						2			49	
Q	10:53	10:58	excellent	2	548	0	0		174	10			4	360										
R	9:20	9:24	good	3	56	0	0		46	10														
S	10:59	11:02	excellent	2	36	350	4		16					20							4		350	
T	9:08	9:20	excellent	2	276	0	0		71	77	6	53	2	67										
U	11:02	11:06	excellent	2	20	213	0		20														213	
V	9:04	9:08	excellent	3	32	0	6		19	13											6			
W	11:04	11:09	excellent	2	412	0	0		90	2				320										
X	9:01	9:04	excellent	3	0	0	0																	
Borrow pits	8:52	9:01	good		37	0	0		33	4														
South Levee																								
Warwick Tract	8:24	8:43	good	2	7	0	0													7				
Total on Ponds					8902	761	197	0	1776	2449	112	1574	52	2567	0	181	0	2	0	222	197	0	761	0
Totals					8939	761	197	0	1776	2453	112	1574	52	2567	0	181	0	2	0	229	197		761	0
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Redhead	Bufflehead	Scaup/ ring-necked duck	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose

Overcast and calm, approximately 44 F. Survey conducted from ACOE levee and pond levees. Trees still with leaves so visibility from ACOE levee is limited. Several units (i.e. V, N) with dense vegetation making sampling difficult.

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
12/[redacted]/2011
19

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	American kestrel	Belted kingfisher
A	11:22	11:40	excellent	1	3											2		
B	11:21	11:22	excellent	2											1			
C	11:41	11:45	excellent	2														
D	10:24	10:32	excellent	1											1	1		
E	11:45	11:48	excellent	3														
F	10:33	10:37	excellent	2	1										2			
G	11:49	11:53	excellent	1														
H	10:38	10:46	excellent	2														
I	10:13	10:17	excellent	3											1			
J	10:01	10:13	excellent	3												1		
K	10:18	10:37	excellent	3														
L	9:48	10:01	excellent	2														
M	10:38	10:46	good	2	1										1			
N	9:38	9:48	good	2														
PP	10:47	10:52	excellent	1														
P	9:24	9:38	excellent	2														
Q	10:53	10:58	excellent	2											1			
R	9:20	9:24	good	3														
S	10:59	11:02	excellent	2														
T	9:08	9:20	excellent	2	1			4										
U	11:02	11:06	excellent	2														
V	9:04	9:08	excellent	3														
W	11:04	11:09	excellent	2														
X	9:01	9:04	excellent	3														
Borrow pits	8:52	9:01	good		4													
South Levee																		
Warwick Tract	8:24	8:43	good	2	5		2									1		
Total on Ponds					6	0	0	4	0	0	0	0	0	0	7	4	0	0
Totals					15	0	2	4	0	0	0	0	0	0	7	5	0	0
					Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Northern Harrier	Red-tailed Hawk	American kestrel	Belted kingfisher

Overcast and calm, approximately 44 F. Survey conducted fr

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
11/30/2011

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck
A	10:38	10:55	Excellent	1	650	0	2		13	291	4	76		151		13				102
B	10:27	10:38	Excellent	2	17	0	5		15	2										
C	10:55	11:00	Excellent	2	868	0	57		38	21	3			806						
D	9:23	9:24	Good	1	0	0	2													
E	11:00	11:04	Excellent	3	244	0	0		36	8				200						
F	9:24	9:29	Excellent	2	145	0	34		134	10									1	
G	11:04	11:15	Excellent	1	35	1730	0		9	20	2								2	2
H	9:30	9:34	Excellent	2	60	0	37		10	50										
I	9:06	9:13	Good	3	103	0	9		72	27		4								
J	8:57	8:59	Excellent	3	75	0	9		72	2		1								
K	9:14	9:29	Excellent	3	510	0	108		450					60						
L	8:47	8:56	Excellent	2	306	0	0		160	36	10			100						
M	9:30	9:35	Fair	2	0	0	0													
N	8:44	8:47	Good	2	14	0	0		10	4										
PP	9:35	9:42	Excellent	1	545	0	7		325					220						
P	8:40	8:44	Good	2	140	0	0		124	12		4								
Q	9:43	9:46	Excellent	2	1620	40	0		204		12			1404						
R	8:38	8:40	Fair	3	35	0	0		35											
S	9:47	9:51	Excellent	2	62	15	0		6			1		55						
T	8:32	8:36	Excellent	2	238	0	0		120	90		6	22							
U	9:55	10:02	Good	2	4	0	0			2				2						
V	8:28	8:32	Good	3	623	0	0		413					210						
W	10:02	10:05	Fair	2	177	0	0		4	20				153						
X	10:05	10:10	Good	3	3	0	0			3										
Borrow pits	8:19	8:24	Fair		28	0	0		28											
South Levee	not surveyed				0	0	0													
Warwick Tract	7:58	8:09	Fair	2	0	0	0													
Total on Ponds					6474	1785	270													
Totals					6502	1785	270	0	2278	598	31	92	22	3361	0	13	0	0	3	104
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck

Sunny and clear, approximately 29 F. Survey conducted from ACOE levee and pond levees. Most trees still with leaves so visibility from ACOE levee is limited.

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
11/30/2011

American coot	Canada goose	Greater white-fronted goose	Lesser snow goose
2			
5			
57			
2			
34			
		890	840
37			
9			
9			
108			
7			
		40	
		15	
270		945	840
American coot	Canada goose	Greater white-fronted goose	Lesser snow goose

Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp	American avocet	Dowitcher (sp.)	Dark Ibis	Northern Harrier	Red-tailed Hawk	American kestrel	Belted kingfisher
												1		
1														
	1													
											1			
											1			
1	1									5				
1														
											1			
			12	6										
1														
				56										
			1	76										
												1		
				10							1	1		
		3												
1		7												
3	2													
8	4	10	13	148	0	0	0	0	0	5	4	3	0	0
Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp	American avocet	Dowitcher (sp.)	Dark Ibis	Northern Harrier	Red-tailed Hawk	American kestrel	Belted kingfisher

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle a
11/14/2011

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead
A	10:44	10:50	Excellent	1	246	0	0		2	229		5				10			
B	10:39	10:42	Excellent	2	116	0	11		19	6	6	10		75					
C	10:50	10:58	Excellent	2	171	0	33		70	25	4	70		2					
D	11:27	11:28	Poor	1	0	0	0												
E	10:59	11:07	Excellent	3	533	0	10		130	2	6	10	2	300					
F	11:24	11:27	Excellent	2	218	0	27		95	10	12	6		95					
G	11:07	11:16	Good	1	1137	162	1		76		24			1037					
H	11:17	11:24	Excellent	2	1250	0	26		80		150	20		1000					
I	8:42	8:53	Excellent	3	353	0	0		176	55	17	15		90					
J	8:35	8:39	Excellent	3	75	0	2		54	6	2	13							
K	8:54	8:57	Excellent	3	102	0	0		100		2								
L	10:23	10:35	Excellent	2	1550	0	406		320	130	60			1040					
M	8:57	8:59	Dry	2	0	0	0												
N	10:11	10:21	Excellent	2	1017	97	0		500	7	10	30	70	400					
PP	8:59	9:04	Excellent	1	74	0	0		70					4					
P	9:58	10:11	Fair	2	263	0	0			19		14		230					
Q	9:04	9:07	Fair	2	0	0	0												
R	9:57	9:58	Poor	3	0	0	0												
S	9:07	9:24	Excellent	2	1145	0	0		15	8		6	16	1100					
T	9:43	9:55	Good	2	675	17	130		150	215	20	70	70	150					
U	9:24	9:24	Dry	2	0	0	0												
V	9:36	9:43	Good	3	838	0	0		708		20	10		100					
W	9:24	9:26	Dry	2	0	0	0												
X	9:32	9:36	Good	3	10	0	0										10		
Borrow pits	8:26	8:30	Fair		0	0	0												
South Levee	not surveyed				0	0	0												
Warwick Tract	8:02	8:17	Fair		0	0	0												
Total on Ponds					9773	276	646	0	2565	712	333	279	158	5623	0	10	10	0	0
Totals					9773	276	646	0	2565	712	333	279	158	5623	0	10	10	0	0
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead

Mostly cloudy, windy, 69 F. Survey conducted from ACOE levee and pond levees. Most trees still with leaves so visibility from ACOE levee is limited. Probable Am. Black duck sighted on unit I.

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle a
11/14/2011

Scaup/ ring-necked duck	Hooded Merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose	Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	Dunlin	Dowitcher (sp.)	White Ibis	Northern Harrier	Red-tailed Hawk
								1										
		11				1												
		33															2	
									7									
83		10															2	
		27															1	
	1	1		162					11									1
		26																
									1									
		2				1												
		406				1			3								3	
				97			1									4		
																	1	
									9			5		1	42			
						1												
						1			5	72								
		130	1	16		1											1	
						1												1
						1												
								1										
						3	2											
83	1	646	1	275	0	8	1	1	36	72	0	5	0	1	42	4	10	2
83	1	646		275	0	11	3	2	36	72	0	5	0	1	42	4	10	2
Scaup/ ring-necked duck	Hooded Merganser	American coot	Canada goose	Greater white-fronted goose	Lesser snow goose	Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	Dunlin	Dowitcher (sp.)	White Ibis	Northern Harrier	Red-tailed Hawk

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
10/28/2011

Canada goose	Greater white-fronted goose	Lesser snow goose	Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Peeps	Black-necked stilt	White Ibis	Dark Ibis	Northern Harrier	Red-shouldered Hawk	Red-tailed Hawk	Turkey Vulture
			1											1						
			2		5														1	
			1		1												1			
65	21					1						9								
					3															
					13					14		38	14				1			
			1	8				25							1	6	1		1	
																	2			
					2												1			
10			1		4															
			1																	
			1																	
			1																	1
60	67				1												3		1	
					19												1			
			2	1	1															
			2	5																
																		1		
135	88	0	9	8	48	1	0	25	0	14	0	45	14	1	1	6	10	0	3	1
135	88	0	13	14	49	1	0	25	0	14	0	45	14	1	1	6	10	1	3	1
Canada goose	Greater white-fronted goose	Lesser snow goose	Great blue heron	Great Egret	Pied-billed grebe	Killdeer	Snipe	Least sandpiper	Greater yellowlegs	Yellowlegs spp.	American avocet	Dowitcher (sp.)	Peeps	Black-necked stilt	White Ibis	Dark Ibis	Northern Harrier	Red-shouldered Hawk	Red-tailed Hawk	Turkey Vulture

Coldwater River National Wildlife Refuge
Waterbird Survey
Ground Count - from vehicle
10/28/2011

Pond	Start	Finish	Water Condition	Vegetation (1-sparse; 2-medium; 3-dense)	Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	American coot
A	11:08	11:14	Excellent	1	1	0	58				1										58
B	11:03	11:08	Excellent	2	9	0	21			5		2		2							21
C	11:14	11:17	Excellent	2	0	0	55														55
D	11:59	12:05	Fair	1	55	21	0				1	47		7							
E	11:17	11:18	Poor	3	0	0	0														
F	11:55	11:58	Good	2	2	0	97		2												97
G	11:18	11:52	Excellent	1	731	0	8			140	42	130	124	295							8
H	11:53	11:55	Dry	2	0	0	0														
I	9:59	10:08	Fair	3	0	0	0														
J	9:56	9:59	Excellent	3	0	0	8														8
K	10:09	10:11	Dry	3	0	0	0														
L	10:55	10:59	Excellent	2	65	0	134			4	60	1									134
M	10:11	10:12	Dry	2	0	0	0														
N	10:52	10:55	Good	2	0	0	20														20
PP	10:12	10:17	Excellent	1	275	0	0		23				2	250							
P	10:46	10:51	Good	2	0	0	0														
Q	10:17	10:21	Good	2	0	0	0														
R	10:44	10:46	Good	3	0	0	0														
S	10:19	10:27	Excellent	2	0	67	15														15
T	10:34	10:44	Excellent	2	0	0	48														48
U	10:27	10:28	Fair	2	0	0	0														
V	10:32	10:34	Excellent	3	0	0	0														
W	10:28	10:30	Poor	2	0	0	0														
X	10:30	10:32	Good	3	0	0	0														
Borrow pits	9:43	9:49	Good		0	0	0														
South Levee					0	0	0														
Warwick Tract	9:20	9:38	Good		0	0	0														
Total on Ponds					1138	88	464	0	25	149	104	180	126	554	0	0	0	0	0	0	464
Totals					1138	88	464	0	25	149	104	180	126	554	0	0	0	0	0	0	464
					Total ducks	Total geese	Total coots	Unknown ducks	Mallards	Gadwall	Northern pintail	Northern shoveler	American wigeon	Am. Green-winged Teal	Blue-winged Teal	Ruddy duck	Wood duck	Canvas-back	Bufflehead	Scaup/ ring-necked duck	American coot

Overcast, rain over night, 49 F. Survey conducted from ACOE levee and pond levees. Most trees still with leaves so visibility from ACOE levee is limited.