

**Upper Mississippi River National Wildlife & Fish Refuge - Waterfowl Aerial Surveys**

DATE(S)	PILOT	OBSERVERS	WEATHER	NOTES
December 5, 2013	L. Bunderson (WI DNR)	R. Nissen, B. Kelly (WI DNR)	Partly Cloudy, 14 degrees, W winds @ 17 mph	Pools 4-7; not flown due to weather/river conditions. No more surveys will be conducted for Fall of 2013.
December 6, 2013	M. Cruce	A. Yetter (IL NHS)	Clear, 15 degrees, NW winds @ 10 mph	Pools 8-11; Divers utilizing open water, geese/swans loafing on ice. Ice Fisherman observed. Last survey.
				Pools 12-14; More than 90% of transects were covered by ice. Last survey for Fall of 2013.

**TABLE 1. SURVEY OF ALL AREAS**

SPECIES	POOL 4 RIECK'S LAKE CLOSED	Pool 4 Peterson Closed	POOL 4 Big Lake CLOSED	POOL 4 NELSON TREVINO	POOL 4 OPEN	POOL 5 SPRING LAKE CLOSED	POOL 5 CLOSED	POOL 5 OPEN	POOL 5A CLOSED	POOL 5A OPEN	POOL 6 TREMPE- NWR	POOL 7 ONALASKA CLOSED	POOL 7 OPEN	POOL 8 WISC. ISLANDS CLOSED	POOL 8 OPEN	POOL 8 BLUE/TAR OPEN	POOL 8 GOOSE ISL CLOSED	POOL 9 HARPERS CLOSED	POOL 9 POOL SLOUGH SANCTUARY	POOL 9 BIG LAKE	POOL 9 RUSH CR	POOL 9 SUGAR CR
SWANS														40	595			270			860	610
CANADA GEESE															295			25		15	40	40
OTHER GEESE																						
MALLARD														30				320	30		3,580	
BLACK DUCK																						
PINTAIL																						
GADWALL														10				25		10	50	5
WIGEON																						
N. SHOVELER																						
BLUE-WINGED TEAL																						
GREEN-WINGED TEAL																						
WOOD DUCK																						
REDHEAD																						
CANVASBACK															2,310			3,350			2,435	4,665
RINGNECK																						
SCAUP																						
C. GOLDENEYE														25	295			120			20	150
BUFFLEHEAD														80	235			295			160	380
MERGANSE																		5				
RUDDY DUCK															25			25				
<b>DUCKS, GEESE &amp; SWAN TOTALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185</b>	<b>3,755</b>	<b>0</b>	<b>0</b>	<b>4,435</b>	<b>30</b>	<b>25</b>	<b>7,145</b>	<b>5,850</b>
<b>PUDDLE DUCKS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>345</b>	<b>30</b>	<b>10</b>	<b>3,630</b>	<b>5</b>
<b>DIVING DUCKS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>105</b>	<b>2,865</b>	<b>0</b>	<b>0</b>	<b>3,795</b>	<b>0</b>	<b>0</b>	<b>2,615</b>	<b>5,195</b>
<b>OTHER SPECIES</b>																						
GREAT BLUE HERON																						
GREAT EGRET																						
BALD EAGLE														221	123	1		52	1	6	34	5
COOT																						
WHITE PELICAN																						
CORMORANT																						

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DATE

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OBSERVERS

WEATHER

NOTES

December 5, 2013 L. Bunderson (WI DNR)  
 December 6, 2013 M. Cruce

R. Nissen, B. Kelly (WI DNR)  
 A. Yetter (IL NHS)

Partly Cloudy, 14 degrees, W winds @ 17 mph  
 Clear, 15 degrees, NW winds @ 10 mph

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TABLE 1(continued). SURVEY OF ALL AREAS

SPECIES	POOL 10 OPEN	POOL 10 12 MILE ISL CLOSED	POOL 10 STURGEON	POOL 10 WISC RIVER PRE-NOV1	POOL 10 WISC RIVER POST-NOV1	POOL 11 BIG POND/12 MILE ISL CLOSED	POOL 11 HAY MEADOW CLOSED	POOL 11 BERT-MC CLOSED	POOL 11 SNYDER	POOL 11 POTOSI	POOL 11 JOHN DEERE CLOSED	POOL 11 O'LEARY	POOL 12 KEHOUGH CLOSED	POOL 12 DEADMAN	POOL 12 GALENA	POOL 12 WISE LAKE	POOL 13 LOST MOUND	POOL 13 PLEASANT CREEK	POOL 13 GREEN ISLAND	POOL 13 SPRING LK UPPER	POOL 13 SPRING LK LOWER	POOL 13 ELK RIVER	POOL 13 LOWER POOL	POOL 14 BEAVER ISLAND	TOTAL	
SWANS		5			150			105								5					135	10	1,230		4,015	
CANADA GEESE		1,540			135			30	30									35			305	1,300	475	25	4,290	
OTHER GEESE																									0	
MALLARD		1,100			950		5	5	140							30			5			300	4,520	25	11,040	
BLACKDUCK																									0	
PINTAIL																									0	
GADWALL																									100	
WIGEON																									0	
N. SHOVELER																									0	
BLUE-WINGED TEAL																									0	
GREEN-WINGED TEAL																									0	
WOODDUCK																									0	
REDHEAD																									0	
CANVASBACK									30	10						225							1,800		14,825	
RINGNECK																									0	
SCAUP																									0	
C. GOLDENEYE								5	45	15		115				10							13,300		14,100	
BUFFLEHEAD									300			55											800		2,305	
MERGANSER																							4,700		4,705	
RUDDY DUCK																									50	
<b>DUCKS, GEESE &amp; SWAN TOTALS</b>	<b>0</b>	<b>2,645</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>5</b>	<b>145</b>	<b>545</b>	<b>25</b>	<b>0</b>	<b>170</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>270</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>440</b>	<b>1,610</b>	<b>26,825</b>	<b>50</b>	<b>55,430</b>	
<b>PIDDLE DUCKS</b>	<b>0</b>	<b>1,100</b>	<b>0</b>	<b>0</b>	<b>950</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>	<b>4,520</b>	<b>25</b>	<b>11,140</b>	
<b>DIVING DUCKS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>375</b>	<b>25</b>	<b>0</b>	<b>170</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>235</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20,600</b>	<b>0</b>	<b>35,985</b>	
<b>OTHER SPECIES</b>																										
GREAT BLUE HERON																									0	
GREAT EGRET																									0	
BALD EAGLE	2	1			3	1	3	3	2	3				1		26	2	3			16	7	48	5	569	
COOT																									0	
W. PELICAN																									0	
CORMORANT																									0	

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TABLE 2. OPEN/CLOSED AREA SUMMARY.

	POOL 4 CLOSED	POOL 4 OPEN	POOL 5 CLOSED	POOL 5 OPEN	POOL 5A CLOSED	POOL 5A OPEN	POOL 6 TREMP	POOL 7 CLOSED	POOL 7 OPEN	POOL 8 CLOSED	POOL 8 OPEN	POOL 9 CLOSED	POOL 9 OPEN	POOL 10 CLOSED	POOL 10 OPEN	POOL 11 CLOSED	POOL 11 OPEN	POOL 12 CLOSED	POOL 12 OPEN	POOL 13 CLOSED	POOL 13 OPEN	POOL 14 CLOSED	TOTALS
SWANS	0	0	0	0	0	0	0	0	0	40	595	270	1,470	155	0	105	0	0	5	145	1,230	0	<b>4,015</b>
CANADA GEESE	0	0	0	0	0	0	0	0	0	0	295	25	95	1,675	0	30	30	0	0	1,640	475	25	<b>4,290</b>
OTHER GEESE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
MALLARD	0	0	0	0	0	0	0	0	0	30	0	350	3,580	2,050	0	10	140	0	30	305	4,520	25	<b>11,040</b>
BLACKDUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
PINTAIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
GADWALL	0	0	0	0	0	0	0	0	0	10	0	25	65	0	0	0	0	0	0	0	0	0	<b>100</b>
WIGEON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
N. SHOVELER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
BLUE-WINGED TEAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
GREEN-WINGED TEAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
WOODDUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
REDHEAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
CANVASBACK	0	0	0	0	0	0	0	0	0	0	2,310	3,350	7,100	0	0	0	40	0	225	0	1,800	0	<b>14,825</b>
RINGNECK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
SCAUP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
C. GOLDENEYE	0	0	0	0	0	0	0	0	0	25	295	120	170	0	0	5	175	0	10	0	13,300	0	<b>14,100</b>
BUFFLEHEAD	0	0	0	0	0	0	0	0	0	80	235	295	540	0	0	0	355	0	0	0	800	0	<b>2,305</b>
MERGANSE	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	4,700	0	<b>4,705</b>
RUDDY DUCK	0	0	0	0	0	0	0	0	0	0	25	25	0	0	0	0	0	0	0	0	0	0	<b>50</b>
<b>DUCKS, GEESE &amp; SWAN TOTALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185</b>	<b>3,755</b>	<b>4,465</b>	<b>13,020</b>	<b>3,880</b>	<b>0</b>	<b>150</b>	<b>740</b>	<b>0</b>	<b>270</b>	<b>2,090</b>	<b>26,825</b>	<b>50</b>	<b>55,430</b>
<b>PUDDLE DUCKS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>375</b>	<b>3,645</b>	<b>2,050</b>	<b>0</b>	<b>10</b>	<b>140</b>	<b>0</b>	<b>30</b>	<b>305</b>	<b>4,520</b>	<b>25</b>	<b>11,140</b>
<b>DIVING DUCKS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>105</b>	<b>2,865</b>	<b>3,795</b>	<b>7,810</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>570</b>	<b>0</b>	<b>235</b>	<b>0</b>	<b>20,600</b>	<b>0</b>	<b>35,985</b>

OTHER SPECIES

GREAT BLUE HERON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
GREAT EGRET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
BALD EAGLE	0	0	0	0	0	0	0	0	0	221	124	53	45	4	2	7	5	0	27	28	48	5	<b>569</b>
COOT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
W. PELICAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
CORMORANT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>