

Your 2008 Crane Count Results Are Enclosed!

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Dear Midwest Crane Counter,

your gifts of time and talent.

the 2008 Crane Count. The 33rd Annual Midwest Crane Count took place on April 19. This program completely depends on your dedication and participation – we could not do it without you. Thank you to everyone involved, especially the County Coordinators for all of their volunteer work to organize the Count in your area! It is our County Coordinators that give ICF the ability to reach the thousands of people involved with Crane Count and maintain such a wide geographic range for the survey. Thank you for all of the hard work you have done and for

The International Crane Foundation (ICF) is pleased to present the results of

Enclosed you will find a map of the reporting counties throughout the Upper Midwest, and tables summarizing data from each one. The totals for counties seem to have been fairly consistent.

We appreciate all of the time and effort you put into this count every year. Thank you for helping with the 33rd Anniversary of Crane Count. We look forward to your continuation of participation for many more years to come.

To show our appreciation for the time and energy you put into the Crane Count, ICF is offering free admission for all crane counters to our site in Baraboo, Wisconsin during our 2009 season. Free admission will be granted to all individuals whose name(s) appear on the mailing label on this letter. Simply cut out the free admission pass from the back page of the newsletter (your address label will be on the back). Present the pass upon arrival at our Visitor Center for your free admission In June 2009, ICF will be opening its new Africa Exhibit with the four Sub-Saharan cranes. We hope you will visit us!

Lots of useful information about Crane Count can be found on the ICF website: www.savingcranes.org. The easiest way of finding the Crane Count portion of the ICF website is by accessing the information at: www.cranecount.org

Mark your calendars for the 34th Annual Midwest Crane Count on April 18, 2009. Thank you once again for your dedication and hard work!

Sincerely,

Alyssa Rod, ICF Crane Count Coordinator; Heath Anderson, GIS Research Assistant cranecount@savingcranes.org

Digitizing Crane Count

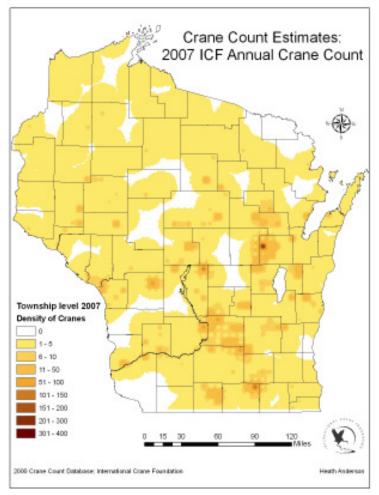
By Heath Anderson, ICF GIS Research Assistant

The International Crane Foundation (ICF) has compiled the handwritten data from the Midwest Sandhill Crane Count since 1982. Bringing the Crane Count data into the 21st century by constructing a higher resolution map was a daunting task for a research assistant!

Digitizing the data required a painstaking review of all data sheets spanning two decades. Several key problems were revealed during this process: 1) erroneous counts associated with more than one site within a county had the same designation; 2) identification and correction of situations where crane site counts varied from year to year; 3) development of a well structured process to assign consistent site identification numbers across the state. Correcting such problems to ensure a high degree of data accuracy is a prerequisite for developing higher resolution maps.

Creating unique identifiers for each site ties databases to the digitized locations ensuring consistent database design and development, as well as systematic mapping and data entry. The database houses specific information; such as number of cranes and number of crane pairs attributed to each location. Digitizing count locations is the process of converting paper maps into a digital

form that the mapping software ArcGIS (a computer program capable of assembling, storing, manipulating, and displaying geographically referenced information) can use for analysis. This necessitates linking physical features such as roads, railroad crossings, and



Interpolation of crane density at the "township level" based on site locations and crane estimates in the state of Wisconsin.

What about the Weather?

from the ICF Crane Count Staff

Everyone knows the weather can change quickly. We've all counted cranes in the sun, rain, snow or fog. Past Crane Counts have been full of weather obstacles, from large amounts of snow in the north to flooding in the south. Yet, cranes don't seem to mind. What happened to the cranes during this year's flooding?

If floods occur during nesting, eggs may get washed away. Some wetlands can take more water volume and pairs may be able to successfully shore up nests against the rising water. Birds with chicks that are old enough can usually walk away from rising water. It all depends on the age of the eggs or chicks, and how quickly the water rises.

How did the June 2008 flooding affect nests and chicks?

Most nests in our study area around the Briggsville, WI region were already hatched, so they fared just fine – there was high productivity this year! We believe that the high water from snow melt led to successful nests during the first round. We do know that there were several renests that were lost at the time of high water in June.

How did flooding around the count date affect the population or number trends?

We did not detect any changes as a result of high water in early spring.



ICF Free Admission Pass

Thank you for making Crane Count 2008 possible! Present this certificate at the ICF Visitor Center for free admission to ICF any time during the 2009 season.

Valid to all crane counters whose names appear on the mailing label on the reverse side. Any accompanying guests who are not listed on the mailing label will be charged the standard admission fee.

ICF is open daily from 9:00 a.m. until 5:00 p.m., April 15-October 31. Daily guided tours are available at 10 a.m., 1 p.m., and 3 p.m. from Memorial Day through Labor Day, and on weekends only in April, May, September, and October.

Thank you for your generous gift of time!

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Whooping Crane Eastern Migratory Flock Updates

By Alyssa Rod, Visitor Services Coordinator

What's going on with the Whooping Cranes in Wisconsin? How many are there? What's happening next with the Eastern Migratory Flock?

Currently there are 73 wild Whooping Cranes in the Eastern Migratory flock with an additional 14 birds being released during the fall/winter 2008-09. In the spring and fall, project staff from ICF and the U.S. Fish and Wildlife Service track and monitor the released cranes in an effort to learn as much as possible about their unassisted journeys and the habitat choices they make both along the way and on their summering and wintering grounds.

Direct Autumn Release

In 2005, ICF and the USFWS began to test an alternative release method to the ultralight reintroduction called Direct Autumn Release (DAR). Through this method, chicks are hatched and reared for a month at ICF and then transferred to the Necedah National Wildlife Refuge. When the chicks are about five months old, they are released on the refuge in the company of older cranes from whom the young birds learn the migration route. This year five cranes made their first southward migration using this method. An additional whooping crane, which had been removed from the ultralight-led cohort due to aggressive behavior, was released on the Necedah NWR using DAR methods. This juvenile crane and one of the DAR birds arrived in Florida in late December. The other four birds are currently in Tennessee.

Ultralight Reintroduction

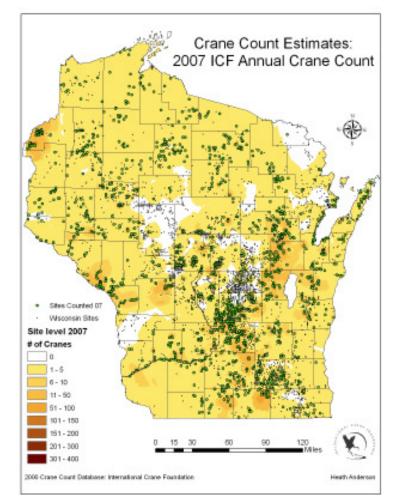
Fourteen juvenile Whooping Cranes left from the Necedah National Wildlife Refuge in central Wisconsin with four ultralight aircraft for Florida on October 17, 2008. This year these cranes followed a new route to Florida, from Wisconsin through Illinois, Kentucky, Tennessee, Alabama, and Georgia. Also, upon reaching Florida, the birds were split into two separate groups. The decision to split the cohort comes after the loss in February 2007 of 17 of the 18 Class of 2006 whooping cranes in a severe storm at Chassahowitzka National Wildlife Refuge. WCEP hopes the two wintering locations will help reduce the risk of another catastrophic loss.

Seven cranes arrived at St. Marks NWR on January 17 and seven arrived at the Chassahowitzka NWR on January 23, 2009 — 88 days after leaving Necedah NWR.

With the 2008 migration completed, ICF Crane Counters can look forward to more updates on these beautiful birds and their migration back to Wisconsin this spring. To stay ahead and become an expert on Whooping Crane migration, email ICF at cranes@savingcranes.org and ask to receive the Whooping Crane email updates. These updates will allow Counters, like you, to not only impress your family and friends with your knowledge of Sandhill Cranes, but also provide information about the Whooping Crane, one of the most historic conservation projects in the United States.

bodies of water, to reference points, allowing the creation of a digital representation of the real world site.

Two different data analysis methods were used during this project to determine crane density estimates. This first type of analysis is referred to as site level. Site level provides a more accurate crane location and aids our understanding of where to focus volunteer efforts. "Township level"



Interpolation of crane estimates at the "site level" based upon counted site locations within the state of Wisconsin.

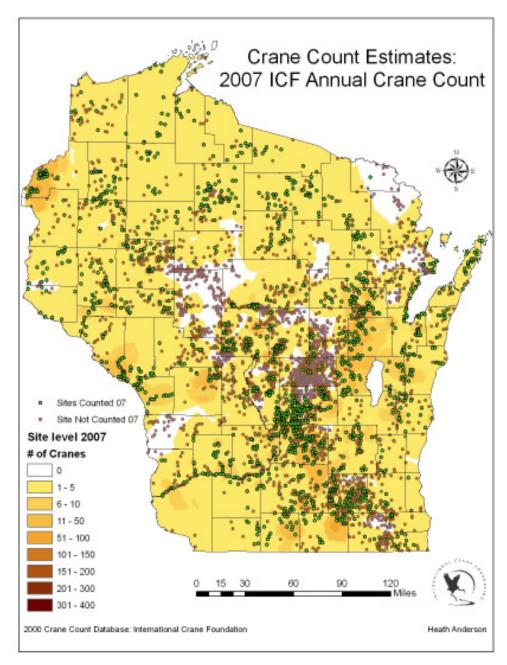
is another type of analysis that divides the state into a grid composed of 6 x 6 mile squares. The benefits associated with "Township level" analysis provides a more precise visual representation of crane density. Township analysis also corrects count errors associated with observers detecting cranes through hearing calls not directly linkable to the site boundary. This correction occurs when the crane density is encompassed within a single grid square

rather than a site. Even though the site method offered a higher degree of crane location accuracy, we chose the township analysis method indexed over time providing a realistic representation of crane dispersal along bodies of water. When exposed to time analysis of corrected data, several trends became apparent. These trends were reviewed and compared with the crane count gathering process. For example, there is a strong positive correlation between the number of cranes and the number of crane observers. Other data anomalies within a particular year can be associated with known weather conditions such as dense fog (reducing both the audible and visual detection of cranes).

The final product is a high-resolution map providing accurate crane counts and locations. The consistent data gathering and digital mapping techniques allow more accurate mapping and aid scientists in the understanding of the cranes and mankind's impact on their habitat. These new maps and techniques,

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injunction with overlapping of relevant characteristics for a specific purpose will form the foundation of future studies. ICF will thus be able to provide ever more accurate and credible information to our clients and volunteers.



Interpolation of site distribution overlaid by crane count estimates to show the areas in need of volunteers throughout the state of Wisconsin.

2008 Crane Count Results By State and County

Michigan

County	Cranes	Pairs	Sites	Observers
Alger	180	67	30	44
Allegan	55	6	6	8
Baraga	25	8	10	15
Cass	not available	not available	not available	not available
Clinton	22	1	1	4
Delta	28	10	5	8
Dickinson	not available	not available	not available	not available
Hillsdale	not available	not available	not available	not available
Houghton	77	16	24	49
Ingham	not available	not available	not available	not available
Iron	not available	not available	not available	not available
Jackson	not available	not available not available		not available
Keweenaw	6	1	8	12
Lenawee	not available	not available	not available	not available
Marquette	39	11	10	18
Menominee	41	10	7	12
Ontonagon	38	10	25	38
Schoolcraft	34	1	9	9
Shiawasee	not available	not available	not available	not available
Washtenaw	41	2	6	12

Minnesota

County	Cranes	Pairs	Sites	Observers
Anoka	12	4	1	2
Beltrami	1	0	1	1
Chisago	29	6	6	8
Dakota	not available	not available	not available	not available
Hennepin	3	0	11	11
Houston	30	8	9	15
Morrison	30	0	1	2
Polk	not available	not available	not available	not available
Ramsey	7	3	6	9
Roseau	0	0	1	2
Wabasha	46	9	11	16
Winona	not available	not available	not available	not available

Illinois

County	Cranes	Pairs	Sites	Observers
Boone	2	0	2	3
Carroll	6	2	3	4
Cook	0	0	2	4
DuPage	0	0	4	7
Grundy	0	0	1	2
Jo Davies	not available	not available	not available	not available
Kane	17	5	12	18
Lake	60	16	17	44
La Salle	0	0	1	2
McHenry	not available	not available	not available	not available
Stephenson	21	5	12	24
Whiteside	5	2	2	5
Winnebago	74	15	18	30

Iowa

County	Cranes	Pairs	Sites	Observers
Allamakee	22	4	1	1
Bremer	20	4	9	15
Buchanan	not available	not available	not available	not availabl
Butler	not available	not available	not available	not availabl
Chickasaw	not available	not available	not available	not availabl
Clinton	10	3	2	6
Greene	not available	not available	not available	not availabl
Hancock	0	0	5	5
Humboldt	not available	not available	not available	not availabl
Jackson	20	1	2	2
Johnson	0	0	1	2
Jones	6	0	1	5
Kossuth	not available	not available	not available	not availabl
Louisa	not available	not available	not available	not availabl
Polk	not available	not available	not available	not availabl
Scott	not available	not available	not available	not availabl
Tama	9	1	6	24
Winnebago	1	0	1	1
Winneshiek	not available	not available	not available	not availabl
Worth	0	0	4	4
Wright	not available	not available	not available	not availabl

2008 Crane Count Results in the State of Wisconsin By County

County	Cranes	Pairs	Sites	Observers	
Adams	77	6	22	50	
Ashland	8	1	6	13	
Barron	66	28	25	44	
Bayfield	2	1	14	21	
Brown	170	15	38	70	
Buffalo	94	16	11	22	
Burnett	233	31	25	60	
Calumet	237	47	14	20	
Chippewa	125	47	25	42	
Clark	66	21	11	21	
Columbia	1432	177	89	192	
Crawford	97	22	10	21	
Dane	284	51	49	99	
Dodge	511	104	36	64	
Door	87	15	20	29	
Douglas	5	1	10	14	
Dunn	127	32	30	60	
Eau Claire	121	39	21	41	
Florence	6	1	1	1	
Fond du Lac	134	43	8	15	
Forest	42	17	11	12	
Grant	10	3	5	7	
Green	88	16	14	27	
Green Lake	231	104	21	40	
Iowa	77	15	15	22	
Iron	42	21	10	16	
Jackson	38	11	11	20	
Jefferson	462	103	44	79	
Juneau	64	14	7	12	
Kenosha	55	12	11	26	
Kewaunee	17	4	3	3	
LaCrosse	120	37	18	49	
LaFayette	not available	not available	not available	not available	
Langlade	23	8	1	1	
Lincoln	83	26	13	22	
Manitowoc	162	28	9	11	

County	Cranes	Pairs	Sites	Observers
Marathon	246	60	35	66
Marinette	62	22	19	25
Marquette	470	102	84	140
Menominee	87	25	13	19
Milwaukee	2	0	1	1
Monroe	138	28	13	28
Oconto	127	25	25	33
Oneida	203	83	42	110
Outagamie	556	74	30	50
Ozaukee	12	5	2	2
Pepin	35	12	8	13
Pierce	10	2	9	12
Polk	2	1	1	1
Portage	107	37	24	145
Price	102	14	48	123
Racine	15	6	5	14
Richland	122	26	19	30
Rock	377	40	24	48
Rusk	26	4	12	19
St. Croix	38	5	14	24
Sauk	155	42	28	68
Sawyer	9	2	10	11
Shawano	1057	63	51	92
Sheboygan	114	17	15	29
Taylor	20	7	5	6
Trempealeau	159	52	25	44
Vernon	31	5	9	12
Vilas	43	18	9	21
Walworth	40	6	10	12
Washburn	39	13	28	33
Washington	35	8	5	8
Waukesha	140	21	17	31
Waupaca	111	19	17	23
Waushara	100	18	12	18
Winnebago	665	59	34	69
Wood	403	79	46	80

Annual Midwest Crane Count 2008 Results

Pages 5-9 contain the results of Crane Count 2008 (this includes all of the data returned to ICF by December 31, 2008).

Tables:

Pages 8 and 9 contain a table for each of the 5 Crane Count states (Wisconsin, Michigan, Minnesota, Illinois and Iowa.) The tables provide a county-by-county summary of 2008 Crane Count data. The number of cranes (seen or heard), the number of pairs (determined by unison calls heard), the number of sites, and number of observers, are reported.

Map:

Pages 6 and 7 contain a map of the five-state Crane Count area. The map illustrates total crane sightings by county (how many cranes were seen or heard in each county during the official two-hour Crane Count period). Counties that participated in the Count are shown in varying shades of grey, depending upon how many cranes were observed.

The number of cranes observed or heard during Crane Count does not tell us precisely how many cranes are found in any given county. Factors such as weather conditions during the Count, number of sites counted, and number of counters has to be considered when we use Crane Count data to estimate crane population trends.

2008 Crane Count State Totals

State	Cranes	Pairs	Observers
Wisconsin	11,254	2,117	2,706
Michigan	586	143	229
Minnesota	158	30	66
Illinois	185	45	143
Iowa	88	13	65
Total:	12,271	2,348	3,209

