

# Appendix 1: Plan a Field Trip! Look for Whooping Cranes! Explore Wisconsin's Wetlands!

## International Crane Foundation

Visit the International Crane Foundation (ICF) to observe captive whooping cranes up close in a wetland habitat. There are fifteen crane species in the world that can be compared and studied during a tour of ICF. ICF is located in Baraboo and offers tours for school groups of all ages. For more information, visit their website at [www.savingcranes.org](http://www.savingcranes.org). Call ICF's Education Department at (608) 356-9462 ext. 127, or email [ed@savingcranes.org](mailto:ed@savingcranes.org) to book a tour.

## Necedah National Wildlife Refuge

Head to Necedah National Wildlife Refuge's observation tower where whooping cranes can be viewed in the wild or flying behind the ultralights during migration conditioning. Necedah offers environmental educational programs to groups of all ages. For more information, visit their website at <http://midwest.fws.gov/necedah>, call the refuge at (608) 565-2551, or send them an email ([necedah@fws.gov](mailto:necedah@fws.gov)).

## Wisconsin State Parks, Forests, Recreation Areas, and Wildlife Areas

Many State Parks, Forests, Wildlife Areas, and Recreation Areas contain wetland habitats that can be visited by school and youth groups. The Wisconsin DNR offers an online "Teacher's Guide to Wisconsin State Parks and Forests" that provides information on guided field trips at <http://dnr.wi.gov/org/land/parks/interp/school/>.

Below are some ideas of places to visit across the state that make good sites for wetland exploration:

**Crex Meadows State Wildlife Area** – Crex Meadows is one of the premier wildlife viewing areas in the Midwest. Crex Meadows is located in northwestern Wisconsin and has a diversity of habitats. Wetlands, primarily sedge marshes, comprise more than half of the 30,000 acres that make up Crex Meadows Wildlife Area. Visit their website at <http://dnr.wi.gov/org/land/wildlife/reclands/crex/>

**Havenwoods Environmental Awareness Center** – Located within Havenwoods State Forest in Milwaukee, Havenwoods Environmental Center is an excellent place to take a fieldtrip. There are several wildlife, insect, and plant programs offered for elementary and middle school students. Get more information on their website at <http://dnr.wi.gov/org/land/parks/specific/havenwoods/center.html>

**Horicon Marsh State Wildlife Area** – Horicon Marsh is the largest cattail marsh in the U.S. and is located in southeastern Wisconsin. As home to more than 290 kinds of birds, Horicon Marsh has been designated a "Wetland of National Importance" and a "Globally Important Bird Area." Visit their website at [http://dnr.wi.gov/org/land/wildlife/wildlife\\_areas/horicon/](http://dnr.wi.gov/org/land/wildlife/wildlife_areas/horicon/)

**Mead (George W.) State Wildlife Area** – Mead Wildlife Area is located 11 miles southwest of Mosinee in Marathon, Wood, and Portage Counties. Mead Conifer Bogs contain northern wet forest and are home to many species of wildlife. Visit their website at <http://dnr.wi.gov/org/land/er/sna/sna373.htm>

**Richard Bong State Recreation Area** – Bong Recreation Area encompasses 4,515 acres of rolling grassland, savanna, wetlands, and scattered woodland. Bong is located just outside Burlington, Wisconsin, about 47 miles from Milwaukee. It offers excellent opportunities for birding,

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especially during the spring months when many birds are making their return migrations north. Bong offers several naturalist-guided programs for school groups correlated to Wisconsin Model Academic Standards. For more information, visit their website at <http://dnr.wi.gov/org/land/parks/interp/school/richardbong/>

**Sandhill Wildlife Area** – Sandhill Wildlife Area lies within the bed of ancient Glacial Lake Wisconsin, an expansive region of flat, marshy land interspersed with forests covering parts of seven counties in central Wisconsin. Sandhill Wildlife Area contains several large marshes and flowages that are home to many species of birds including sandhill cranes, ruffed grouse, Canada geese, ducks, loons, bald eagles, shorebirds, songbirds, hawks, and owls. Visit their website at <http://dnr.wi.gov/org/land/wildlife/reclands/sandhill/index.htm>

A complete listing of Wisconsin State Parks, Forests, and Recreation Areas can be found at [www.wiparks.net](http://www.wiparks.net).

Help safeguard our cranes and other wild birds! Please review the Bird Watcher's Code of Ethics developed by the Wisconsin Society for Ornithology, which is available on the web at [http://www.wsobirds.org/wso\\_code\\_of\\_ethics.html](http://www.wsobirds.org/wso_code_of_ethics.html).

## **If you see a whooping crane....**

**Anyone who encounters a whooping crane** should contact their local DNR office to report their observations (a list of Wisconsin DNR offices can be found online at <http://www.dnr.state.wi.us/org/caer/cs/ServiceCenter/locations.htm>). Probable sightings or known observations are recorded by staff (who verify the info) on a form linked to the monitoring database maintained by Wisconsin DNR. Please provide date, time, exact location, bird behavior, description, and a photo if available. In any of the eastern United States, observations can also be reported at <http://www.fws.gov/midwest/endangered/cfusionmx7/wcobervationsform.cfm>

When encountering a whooping crane, every effort should be made to remain at least 100 yards from the bird. If possible, remain concealed in a vehicle. Help prevent the cranes from becoming tame or used to people. Binoculars or a spotting scope are recommended to increase visibility. It is especially important to avoid disturbing a crane during evening roosting or if nesting. To learn more about bird watching guidelines, refer to The Bird Watcher's Code of Ethics developed by the Wisconsin Society for Ornithology at [http://www.wsobirds.org/wso\\_code\\_of\\_ethics.html](http://www.wsobirds.org/wso_code_of_ethics.html).

## Appendix 2: Evaluation Form

Name of School/Organization: \_\_\_\_\_

City, State, County: \_\_\_\_\_

Age/grade of audience: \_\_\_\_\_

Size of audience: \_\_\_\_\_

Do you have whooping cranes in your county? \_\_\_\_\_

Did you request the crane trunk to accompany a certain unit in your classroom?  
If so, which one? \_\_\_\_\_

\_\_\_\_\_

How did you hear about the crane trunk? \_\_\_\_\_

\_\_\_\_\_

Did you read the *Crane Trunk Manual* before teaching the activities? If so, was it helpful? How could it be improved? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

How much knowledge did your students have of whooping cranes before using the trunk? \_\_\_\_\_

\_\_\_\_\_

Which activities did you use? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Which activities worked well? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Appendix 2: Evaluation Form

Which activities did not work well? How could they be improved?

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Was the information presented in a clear and applicable format? \_\_\_\_\_

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Would you recommend the crane trunk to other teachers/educators? Why or why not? \_\_\_\_\_

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Other comments and suggestions: \_\_\_\_\_

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Please send completed evaluation forms to:

Whooping Crane Education – ER/6  
Wisconsin Dept. of Natural Resources  
PO Box 7921  
Madison WI 53707-7921  
608-267-9351

## Appendix 3: Whooping Crane Trunk User Agreement

Before using the Whooping Crane Education Trunk, please read and sign the “Crane Trunk User Agreement” form. The form should be returned to the Wisconsin DNR or to the WCEP partner who loaned you this trunk as soon as possible via fax or mail. If you borrowed this trunk from the Wisconsin DNR in Madison, you can return the signed agreement form:

By fax to: 608-266-2925  
Attention: Whooping Crane Education

Or by mail to:  
Whooping Crane Education – ER/6  
PO Box 7921  
Madison, WI 53707-7921

**If you find any items missing or damaged upon receiving the trunk, please contact the WCEP partner who loaned you the trunk immediately.**

# Appendix 3: Whooping Crane Trunk User Agreement

Name: \_\_\_\_\_

School/Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Date Crane Trunk was received: \_\_\_\_\_

1. **The Whooping Crane Trunk is designed for educational purposes only.** Please feel free to duplicate and share the printed educational materials with students and other teachers as much as you would like. Please do not alter the printed materials in any way.
2. **Materials are loaned for a period of three weeks.** I understand that I can have the Whooping Crane Trunk in my possession for up to three weeks from the date it arrives. The Trunk must be postmarked or returned in person three weeks after it is received. I understand that failure to return the Trunk within this time may result in a late fee.
3. **The Borrower is responsible for any loss or damage.** I have examined the contents of the Whooping Crane Trunk upon its arrival. I will return all materials to the Wisconsin DNR in the same condition in which I received them. I understand that I am responsible for any lost or damaged items while the Crane Trunk is in my possession, and that I will be held financially liable for the replacement of any lost or damaged items.
4. **The Borrower is responsible for returning the Whooping Crane Trunk.** It is the Borrower's responsibility to return the Trunk to the Wisconsin DNR when use is complete. The Borrower is responsible for personally delivering the trunk or paying return postage, unless otherwise noted.

I have read and understand the terms and conditions listed above, and I agree to comply with them. I have kept a copy of this agreement for my records.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix 4: Additional Resources

Visit the following websites for more information about and photographs of whooping cranes:

**Wisconsin DNR:** Contains whooping crane news summaries, information about what to do if you see a whooping crane in the wild, and an online link to the *Wisconsin Whooping Crane Management Plan*. [www.dnr.state.wi.us/org/land/er/birds/wcrane/index.htm](http://www.dnr.state.wi.us/org/land/er/birds/wcrane/index.htm)

**Operation Migration:** Read daily online updates of the ultralight-led migration of whooping crane chicks. [www.operationmigration.org](http://www.operationmigration.org)

**Journey North:** Provides information on the characteristics, life cycle, ecology and conservation of whoopers. [www.learner.org/jnorth/search/Crane.html](http://www.learner.org/jnorth/search/Crane.html)

**International Crane Foundation:** Learn about all fifteen species of cranes in the world. [www.savingcranes.org](http://www.savingcranes.org)

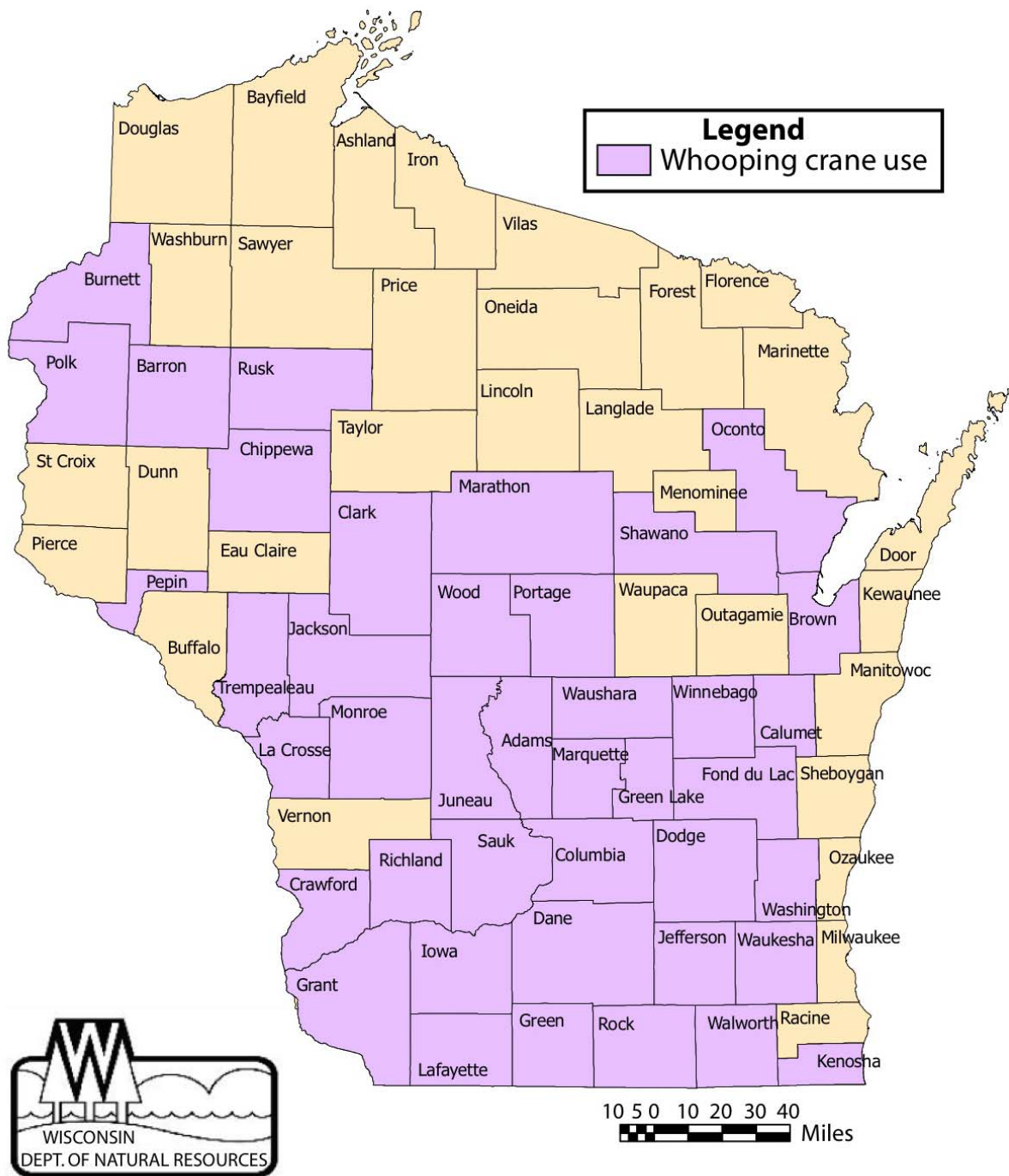
**Whooping Crane Eastern Partnership (WCEP):** Provides updates of the WCEP project, whooping crane recovery activities, and individual whooping cranes. [www.bringbackthecranes.org](http://www.bringbackthecranes.org)

**Project Learning Tree (PLT):** PLT is an award-winning environmental education program for PreK-8 formal and non-formal educators. Designed for all educators and naturalists, the materials are only available through PLT workshops led by certified instructors. Correlated to Wisconsin's standards, the *Project Learning Tree Pre K-8 Environmental Activity Guide* includes nearly 100 activities in a story-line technique covering themes of diversity, interrelationships, systems, structure and scale, and patterns of change. For more information about the program or to view a schedule of upcoming workshops, visit: <http://dnr.wi.gov/org/caer/ce/pltwild/plt.htm>

**Project WILD:** Project WILD is a nationwide environmental education program consisting of activity guides and supplementary environmental education materials for K-12 classrooms, youth groups, home schools, and nature centers. Project WILD encompasses over 165 environmental education activities. Project WILD includes: *Project WILD K-12 Activity Guide*, with over 165 activities focusing on wildlife, habitat, and responsible human actions; *Aquatic Project WILD Activity Guide*, which explores the fascinating world of water and the aquatic habitats it supports through 48 interdisciplinary activities; *WILD in the City*, a set of urban wildlife fact sheets. For more information about the program or to view a schedule of upcoming workshops, visit: <http://dnr.wi.gov/org/caer/ce/pltwild/wild.htm>

**Project WET:** WET stands for Water Education for Teachers. Wisconsin values its water resources! With almost 15,000 lakes, 33,000 miles of rivers and streams, and 5.3 million acres of wetlands within its borders, Wisconsin needs to protect these waterways. Project WET is a nonprofit water education program and publisher for educators and young people ages 5-18. It is designed to facilitate and promote awareness, appreciation, knowledge, and stewardship of water resources through the dissemination of classroom-ready teaching aids. The core of the program is the *Project WET Curriculum and Activity Guide (Grades K-12)*, a collection of water-related, fun, hands-on, and easy-to-use activities. The 90-plus activities incorporate a variety of formats such as large and small group learning, laboratory investigations, discussion of local and global topics, and involvement in community service projects. Supplementary resources are available to complement and enrich many of the activities. For more information about the program or to view a schedule of upcoming workshops, visit: <http://dnr.wi.gov/org/caer/ce/pltwild/wet.htm>

# Appendix 5: Whooping Crane Locations by Wisconsin County



# Appendix 6: Make Your Own Origami Crane!

Begin with a square piece of paper - ideally one side coloured and the other plain. Place the coloured side face up on the table. In all diagrams, the shaded part represents the coloured side.

1. Fold diagonally to form a triangle. Be sure the points line up. Use your thumbnail to make all creases very sharp.



Now **unfold** the paper

2. Now fold the paper diagonally in the opposite direction, forming a new triangle.



**Unfold** the paper and turn it over so the white side is up. The dotted lines in the diagram are creases you have already made.

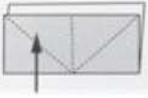


3. Fold the paper in half to the **right** to form a tall rectangle.

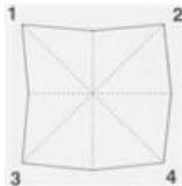


**Unfold** the paper.

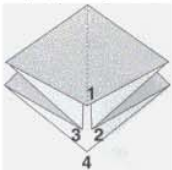
4. Fold the paper in half, bringing the bottom up to the top and form a wide rectangle.



Unfold the rectangle, but don't flatten it out. Your paper will have the creases shown by the dotted lines in the figure on the right.

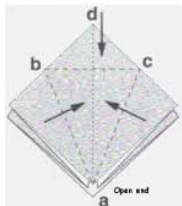


5. Bring all four corners of the paper together, one at a time. This will fold the paper into the flat square shown on the right. This square has an open end where all four corners of the paper come together. It also has **two flaps on the right and two flaps on the left**.



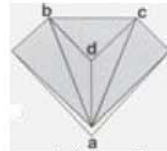
6. Lift the **upper right flap**, and fold in the direction of the arrow. Crease along line a-c.

7. Lift the upper left flap and fold in the direction of the arrow. Crease along the line a-b.

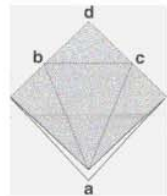


8. Lift the paper at point d (in the upper right diagram) and fold down into the triangle b-a-c.

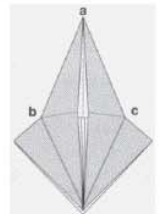
Crease along the line b-c.



Undo the three folds you just made (steps 6, 7, and 8), and your paper will have the crease lines shown on the right.



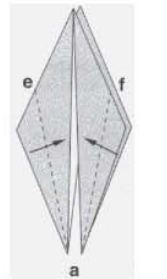
9. Lift just the top layer of the paper at point a.



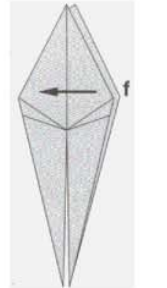
Think of this as opening a crane's beak. Open it up and back to line b-c where the beak would hinge. Crease the line b-c inside the "beak."

Press on points b and c to reverse the folds along lines a-b and a-c. The trick is to get the paper to lie flat in the long diamond shape shown on the right. At first it will seem impossible but with some patience you will get the hang of it!

10. - 13. Turn the paper over. **Repeat** Steps 6 to 9 on this side. When you have finished, your paper will look like the diamond below with two "legs" at the bottom.



14. - 15. Taper the diamond at its legs by folding the top layer of each side in the direction of the arrows along lines a-f and a-e so that they meet at the center line.



16. - 17. Flip the paper over. Repeat steps 14 and 15 on this side to complete the tapering of the two legs.

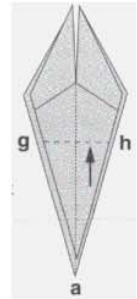
18. The figure on the right has two skinny legs. Lift the **right upper flap** at point f and fold it over in the direction of the arrow - as if turning the page of a book. This is called a "book fold."



**Flip** the entire piece over.

19. Repeat this "book fold" (step 18) on this side. Be sure to fold over only the upper flap.

20. Now imagine this image is what you would see if you were looking straight down, at the top of a crane's head. The two points at the top of the picture are the back of the crane's head, and its pointy beak is at the bottom. Open the upper layer of the beak at point a, and crease it along line g-h so that the tip of the beak touches the back of its head (ouch!)



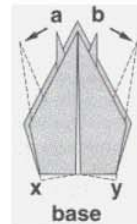
21. **Turn the figure over.** Repeat step 20 on this side so that all four points touch.

22. Your paper should look like this image on the right. Next another "book fold." Lift the top layer on the right (at point f), and fold it in the direction of the arrow to the middle. Be sure to crease the fold.

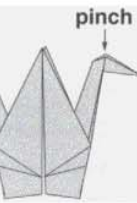


23. Flip the entire figure over. Repeat the "book fold" (step 22) on this side.

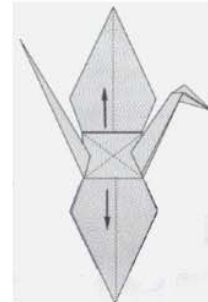
24. - 25. There are two points, a and b, below the upper flap. Pull out each one, in the direction of the arrows, as far as the dotted lines. Press down along the base (at points x and y) to make them stay in place.



26. Take the end of one of the points, and bend it down to make the head of the crane. Using your thumbnail, reverse the crease in the head, and pinch it to form the beak. The other point becomes the tail.



*Open the body by blowing into the hole underneath the crane, and then gently pulling out the wings.*



Why not use a black and red crayon or marker and give your origami crane the features of a Whooping Crane?