

## **PRODUCTS, PLANNED DELIVERY DATES, AND CURRENT STATUS**

### **USGS PLATTE RIVER PROGRAM**

#### **NORTHERN PRAIRIE WILDLIFE RESEARCH CENTER**

##### **a. PAPERS PUBLISHED OR IN PRESS**

1. Ellis, D. H., P. W. Howey, and G. L. Krapu. 2001. Recommendations for the attachment of satellite transmitters. *Proc. North Am. Crane Workshop* 8:211-212.
2. Peterson, J. L., R. Bischof, G. L. Krapu, and A. L. Szalanski. 2003. A phylogenetic analysis of the sandhill crane, *Grus canadensis*, Midcontinent Population. *Biochemical Genetics* 41:1-12.
3. Krapu, G. L., and D. A. Brandt. 2004. Do northern-nesting geese compete with sandhill cranes for waste corn in the Central Platte Valley, Nebraska? Proceedings of the Ninth North American Crane Workshop. (In press).
4. Krapu, G. L., D. A. Brandt, D. A. Buhl, and G. W. Lingle. 2004. Evidence of decline in fat storage by midcontinental sandhill cranes: A preliminary assessment. Proceedings of the Ninth North American Crane Workshop. In press.
5. Krapu, G. L., D. A. Brandt, and R. R. Cox, Jr. 2004. Less waste corn, more land in soybeans, and the switch to GM crops: trends with important implications to wildlife management. *Wildlife Society Bulletin* 32 (2): 1-10.
6. Jones, K.L., G. L. Krapu, D. A. Brandt, and M. V. Ashley. Genetic structure in migratory sandhill cranes: A result of post-glacial secondary contact? *Molecular Ecology* (In press)
7. Henszey, R. J., K. Pfeiffer, and J.R. Keough. Linking surface and ground water levels to riparian grassland species along the Platte River in central Nebraska. *Wetlands* (In press).
8. Igl, L. D., and D. H. Johnson. 2004. A retrospective perspective: evaluating population changes by revisiting historic surveys. Pages xxx-xxx in C. J. Ralph and T.D. Rich, editors. *Bird conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference 2002*. USDA. Forest Service, GTR-PSW-191, Albany CA.

## **b. PAPERS IN PREPARATION AND STATUS**

### **Manuscripts still to submit in 2004.**

9. Renfrew, R. B., D. H. Johnson, G. R. Lingle, and W. D. Robinson. Avian response to meadow restoration in the Central Great Plains. (Submit to Ecological Restoration).

### **Manuscripts to submit in 2005**

10. Krapu, G. L., D. A. Brandt, and K. L. Jones. Geographic distribution of subspecies and subpopulations of midcontinental sandhill cranes, their relative abundance and exposure to hunting seasons. (Wildlife Monographs) (Data collection complete, data analysis and writing in progress).
11. Igl, L. D., D. H. Johnson, C. A. Faanes, G. R. Lingle, J. A. Gulbransen, and W. Norling. Population estimates and changes in breeding bird populations in the Platte River Nebraska: 1978-81 to 2001. (Submit to Great Plains Research).
12. Krapu, G. L., K. Jones, and D. A. Brandt. Have man-induced changes on the landscape of the Great Plains increased gene flow in the midcontinental population of sandhill cranes? Conservation Biology.(Data collection complete, data analysis and writing in progress).
13. Krapu, G. L., and D. A. Brandt. Fidelity of midcontinental sandhill cranes to key spring staging areas, migration corridors, and breeding sites. (Submit to Auk) (data collection complete in early summer 2004).
14. Cox, R., R. Alisauskas, and G. L. Krapu. Diets and nutrient reserves of greater white-fronted geese during spring migration (to be submitted to J. Wildl. Manage.) (2003)

### **Manuscripts to submit in 2006**

15. Krapu, G. L., and D. A. Brandt. Effects of I-80 on sandhill crane use of the Central Platte River Valley, Nebraska (J. Wildl. Manage). (Manuscript in preparation. Data collection to be completed in 2005).
16. Krapu, G. L., D. A. Brandt, D. H. Johnson, and J. Solberg. Is the annual March survey of the midcontinental sandhill crane population appropriately timed to estimate population size? (J. Wildl. Manage. (Data analysis and writing in progress, data collection to be completed in 2004).
17. Krapu, G.L., and D. A. Brandt. Ecological factors associated with sandhill cranes

breeding in northeast Russia. (Data collection nearly complete). (Submit to Ibis).

18. Cox, R. R., G. L. Krapu, and D. A. Brandt. Use of a mathematical model to assess options for managing sandhill crane habitat in the Central Platte River Valley, Nebraska. (J. Wildl. Manage. Data collection completed).

### **Manuscripts to submit in 2007**

19. Krapu, G. L., D. A. Brandt, and P. J. Kinzel. Spring staging ecology of midcontinental sandhill cranes in the Central Platte River Valley, Nebraska . (Wildlife Monographs) (Detailed outline prepared, data analyses in progress, data collection to be completed in 2006).
20. Krapu, G. L., and D. A. Brandt. Adaptations that increase fat storage and limit energy costs in northern-nesting sandhill cranes. (Submit to Auk).
21. Krapu, G. L., and D. A. Brandt. Why do most lesser sandhill cranes breed in Siberia and western Alaska? (Submit to Auk) (Data collection to be completed in 2005)
22. Krapu, G. L., D.H. Johnson, K. Jones , and D. A. Brandt. Patterns and sources of morphological variation in 2 subspecies of midcontinental sandhill cranes (submit to Auk). (Data collection to be completed in 2005)
23. Cox, R., G. L. Krapu, and D. A. Brandt. Use and availability of waste corn to waterfowl In Nebraska during spring: implications of increasing snow geese. (to be submitted to J. Wildl. Manage.) (Data collection completed)
24. Krapu, G. L., G. Schuster, and D. A. Brandt. Factors controlling temporal patterns of migration in midcontinental sandhill cranes (submit to Auk). (Data collection to be completed in 2004).
25. Krapu, G. L., and D. A. Brandt. Estimating total body fat from body mass and body size measurements in sandhill cranes (submit to Wildl. Society Bulletin).

### **Manuscripts to submit in 2008**

26. Krapu, G. L., and D. A. Brandt. Movements and activity ranges of fall staging and wintering midcontinental sandhill cranes. (submit to J. Wildl. Manage).. (Data collection complete)
27. Krapu, G. L., and D. A. Brandt. Migration corridors, key staging areas, and conservation of lands important to migrant midcontinental sandhill cranes. (Submit to Conservation Biology. (Data collection to be completed in 2007).

28. Krapu, G. L., D. A. Brandt, and D. H. Johnson. Annual recruitment in the midcontinental population of sandhill cranes? (JWM) (complete data collection in 2007).
29. Krapu, G. L. and D. A. Brandt. Ecological niche modeling used to predict breeding distribution of sandhill cranes in northern regions (Submit to Conservation Biology or Ecological Applications). (Field data collection complete)

**Manuscripts to submit in 2009**

30. Krapu, G. L., and D. A. Brandt. Are reproductive success or survival affected by condition of sandhill cranes, their body size, or pattern of use of the Platte River in spring? (Submit to Journal of Wildlife Management). (Data collection to be completed in 2007)
31. Krapu, G. L., R. R. Cox, Jr., and D. A. Brandt. An evaluation of risk to the midcontinental sandhill crane population when staging during spring in the Central Platte River Valley, Nebraska. (Submit to J. Wildl. Manage) (data collection to be completed in 2007.)
32. Krapu, G. L., and D. A. Brandt. Reliability of ground surveys as a measure of annual recruitment in the midcontinental population of sandhill cranes. (Submit to J. Wildl. Manage.) (Completion of data collection in 2006).
33. Krapu, G. L., and D. A. Brandt. Breeding habitat associations among 4 subpopulations of midcontinental sandhill cranes. (Submit to J. Wildl. Manage. (Data collection nearing completion).

**c. REPORTS PUBLISHED AS ABSTRACTS IN PROCEEDINGS OR SYMPOSIA**

1. Krapu, G. L., and D. A. Brandt. 1998. Spring staging ecology of sandhill cranes in the Central Platte River Valley: An evaluation of long-term changes in habitat use, food resources, nutrient storage, and carrying capacity. Page 77 *in* Proc. Ninth Platte River Basin Ecosystem Symposium, Kearney, NE.
2. Krapu, G. L., and D. A. Brandt. 1999. Sandhill crane research in the Central Platte Valley: a progress report. Page 9 *in* Proc. Tenth Platte River Symposium. Kearney, NE.
3. Krapu, G. L., and D. A. Brandt. Application of satellite telemetry to identify habitat use by the midcontinental population of sandhill cranes throughout the annual cycle. Page 64 *in* Applications of Geospatial Technology to Biological Sciences: A Symposium. Lafayette, LA.
4. Krapu, G. L., and D. A. Brandt. 2004. Use of satellite telemetry to identify temporal distribution of the midcontinental sandhill crane population throughout the annual cycle.

Proceedings Ninth North American Crane Workshop. Albuquerque, NM.

5. Krapu, G. L., and D. A. Brandt. 2001. Changes in corn availability affect fat storage by sandhill cranes staging in the Central Platte River Valley, Nebraska. Page 56 *in* Proc. Eleventh Platte River Basin Symposium, Kearney, NE.

**d. OTHER PUBLISHED REPORTS**

1. Krapu, G. L., and D. A. Brandt. 2000. Decline in waste corn affecting spring staging of sandhill cranes in Nebraska. Pages 50-51 *in* Webless Game Bird Research Program Project Abstracts-1999. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Washington, D.C.
2. Krapu, G. L., and D. A. Brandt. 2001. Use of satellite telemetry to measure key parameters associated with management of the midcontinental sandhill crane population. Pages 16-18 *in* Webless Migratory Bird Research Program Abstracts-2000. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Washington, D.C.
3. Krapu, G. L., D. A. Brandt. 2002. Delineation of subpopulations of midcontinental sandhill cranes and their relative abundance based on satellite telemetry. Pages 28-29 *in* Webless Migratory Game Bird Research Program Abstracts-2002. U.S. Fish and Wildlife Service, Division of Migratory Bird Management, Washington, D. C.
4. Krapu, G. L., D. A. Brandt, and J. Roberson. 2001. Use of satellite telemetry to measure key parameters associated with management of the midcontinental sandhill crane population. Page 27 *in* Texas parks and Wildlife Research Highlights 2001.
5. Krapu, G. L. 2001. Satellite telemetry: a powerful new tool for studying sandhill cranes *in* The Braided Channel, Platte River Trust, Wood River, Nebraska.
6. Krapu, G. L. D. A. Brandt, and J. Roberson. 2003. Population characteristics of sandhill cranes wintering in Texas. Pages 26 and 27 *in* Texas Parks and Wildlife Research Highlights.

**e. THESES**

1. Krahulik, J. R. 2002. Effects of land management and habitat changes on wet meadow invertebrate diversity in south-central Nebraska. University of Nebraska at Kearney, Kearney, NE.