## SUMMARY OF THE KIRTLAND'S WARBLER SURVEY IN WISCONSIN - 1989

by Randy Hoffman

## SUMMARY

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October 1989



Summary of the Kirtland's Warbler Survey in Wisconsin - 1989

by Randy Hoffman Kirtland's Warbler Survey Coordinator

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Abstract

In 1989, a survey was conducted to update the occurrence of Kirtland's Warbler (Dendroica kirtlandii) in Wisconsin. survey was very similar to that conducted in 1988. The 160 jack

pine (Pinus banksiana) stands surveyed in 1989 compared to the 116 stands surveyed in 1988 was reflective of additional areas identified as potential habitat. Also, increased numbers of volunteers were recruited for this year's survey. Compared with

1989, one of which was banded in 1988.

Survey Preparation

the eight males found in 1988, only two males were recorded in

Initial survey work began with preparation for any of the

possible events that could occur during the survey period. These events had the prerequisite that Kirtland's Warblers would be found. 1. If Kirtland's Warbler were found, they should be caught and color banded -- Mr. Wesley Jones was assigned all banding

In addition, the Wisconsin Conservation Corp. in Spooner, and Wisconsin Department of Natural Resources (WDNR) - Wildlife Management personnel in Black River Falls, were recruited to be on call in the event net lines would have to be cut.

Obtain permission from Mosinee Paper Company to conduct the survey on their land -- This permission was granted by Mr. William Knauth, Mosinee Paper Company, forest operations manager in a letter dated May 19, 1989.

ì. If female Kirtland's Warblers and/or nesting was confirmed,

these birds would have to be given good chances for success. This would require the immediate placement of cowbird traps

-- Obtaining materials for cowbird traps and construction of these traps was coordinated by Mr. Wesley Jones.

Wisconsin Conservation Corps. in Spooner, constructed the traps. They were then stored at the WDNR station in

Spooner. In the event a female Kirtland's Warbler was found Mr. Jones would transport and erect the traps. Mr. Ron

Cowbirds (Molothrus ater) for use as decoy pirds that could by placed in the erected traps. In addition, if nesting was suspected, minimal disturbance would be mandatory. The Wisconsin Society for Ornithology rare bird hotline operator, Mr. Jerry DeBoer, was contacted. It was agreed that no Kirtland's Warbler location information would be passed along without prior contact and approval from the U.S. Fish and wildlife Service(USF&WS). A similar agreement was made with the Minnesota Ornithologist's Union representative, Mr. Robert Jansen; however, this only covered the Minneapolis rare bird hotline. A similar rare bird hotline in Duluth purportedly proadcasted the location of a male. Survey Method - Habitat Delineation Habitat criteria was the same as used in 1988. The site requirements were close approximations of Wisconsin conditions to Michigan habitat. In 1988, participants were asked to record site conditions on their data forms. (Appendix A) information was used to determine which of those 1988 sites should be surveyed in 1989. Plus, the 1988 participants were asked to apprise us of any sites, they thought met the habitat criteria. These sites were added to the 1989 survey. Additional habitat was sought by looking at WDNR Bureau of Forestry burn records. All burns of 80 acres or more for the period of 1970-1985 were requested. These were matched with cover type maps and air photos to identify additional sites to survey. This analysis resulted in additional sites in Marinette, Juneau, Burnett and Douglas Counties. Also, forest personnel from the Chequamegon National Forest were requested to identify any sites meeting the habitat criteria set forth in 1988. Analysis failed to produce any sites in the Chequamegon National Forest. The 1988 data, plus additional stands identified in 1989, resulted in 167 potential habitat stands in Wisconsin. Stands identified for each county were Bayfield (32), Burnett (25), Douglas (13), Jackson (27), Juneau (26), Marinette (6), Washburn (32) and Vilas (6). The burn record analysis failed to turn up

any potential stands in other counties. All the potential stands

were plotted on county plat maps showing exact stand location and

approximate stand boundaries. Survey Methods - Organize and Conduct Survey Initial organization attempts were to contact those persons,

especially professionals, who helped in 1988. After this cursory survey was made, volunteers would be recruited to fill in the gaps. Volunteers were solicited through conversations with WDNR-

Wildlife Managers and through announcements in the publications of the Wisconsin Society for Ornithology and several Audubon groups. The volunteers were notified of the survey and asked to give preferred counties or areas they would like to survey. Past overlap. They were then malled appropriate maps and instructions for conducting the survey (Appendix B). The official survey period was set for June 3 to June 19, 1989, although this was waived for those sites harboring Kirtland Warblers in 1988. Searches of those sites could commence at any time after May 15. These specific sites were checked in the event birds would return to the same site. This would permit early banding activities on any of these returning birds. Any bird banded early would allow more flexibility for banding birds during the official survey period. The surveys were conducted from June 3 through June 18, 1989, from sunrise to 11:00 a.m. The days were to be clear, free from precipitation, with wind not exceeding 12 m.p.h. Listening stations were set up near the center of every forty-acre block. At each station a recording of the Kirtland's Warbler territorial song was played for 30 seconds. The surveyor(s) then listened for a response for two minutes. The procedure was repeated before moving to the next station. If a Kirtland's Warbler was heard, a positive visual identification of the bird was to be made. Upon positive identification, the site was to be marked with flagging and the location identified on a map. The Bureau of Endangered Resources was to be notified immediately. Once the surveys were complete, the survey forms and cover maps were sent to the Bureau of Endangered Resources. In the event a Kirtland's Warbler was identified, the U.S. Fish and Wildlife Service had directed Mr. Wesley Jones to capture, measure, weigh, and band the bird(s) with colored bands issued by the USF&WS. Results All 167 potential stands were assigned to be surveyed. One hundred sixty stands were surveyed in 1989. The participants were asked to contact the WDNR if they could not complete their assigned routes. Two participants could not complete their routes and they contacted the WDNR. Unfortunately, the contact was made on the last day of the survey. Twenty four participants were involved in the 1989 survey. Four professionals surveyed thirty-three stands and twenty volunteers surveyed one hundred twenty seven sites. (Map 1) Two male Kirtland's Warblers were found in the 1989 survey. One bird, color banded in 1988, returned to the same site in Douglas County. This bird was discovered on May 22, 1989 by Wesley Jones and remained in the same territory until at least June 26, 1989, (observed by R.Hoffman). A second bird was recorded in Jackson County on June 17, 1989. The bird was heard prior to tape playing and responded positively upon commencement of tape playing. This party also reported glimpsing a bird that appeared to be a "likely male"; however, this bird disappeared before total confirmation and it did not respond to the tape. Therefore, only one bird was counted. Contacts were made with

Discussion

hile the number of birds recorded decreased in one year from ight to two, the survey did provide interesting information. he color banded Douglas County bird returned to the same erritory it occupied in 1988. This singular male showed emarkable site tenacity returning to and remaining on territor or more than one month. The opposite effect occurred in Jacks

ounty the one positive sighting was about ten miles away from he 1988 sightings. Where did the other birds go? It is trulnknown, but it was not for lack of looking. Every 1988 stand hat recorded a Kirtland's Warbler was returned to with only the ne success. Also, the effort was not lacking, the volunteer, ho found three birds in 1988, surveyed the same area in 1989.

earch until June 24, 1989. This was due to other time

he stands were surveyed on 7 different weekends from mid-May he fourth of July without success.

he organizational problems set forth in the 1988 performance eport were mostly met. Twenty volunteers were utilized in 1980 ompared to 11 in 1988. All stands unfortunately were not overed. Seven assigned sites were not surveyed, five due to

ot stuck in the sand.

t is strongly suggested that an intensive survey commence nexpring, because the Michigan population has a relatively high
umber of color banded birds. The opportunity to track these
irds is now. Future studies and additional opportunities may
ay not take place. There may not be another chance.

eather related problems and two were missed because a vehicle

ay not take place. There may not be another chance.

f a survey is continued, it is suggested that it be more
ntensive and focus only on those areas with the best habitat.

Focus emphasis on Jackson County and four areas in northwo
Wisconsin; the Oak Lake burn area in Washburn County, the

Five Mile burn area in Washburn and Douglas Counties, the Ekdall Church burn area in Burnett County, and the industrial pinery east of Solon Springs in Bayfield County (Map 2)

Type map these five areas to accurately delineate current and future Kirtland's Warbler habitat.

and future Kirtland's Warbler habitat.

Keep the central coordination for public relations and state wide compilation in Madison.

Replace day to day surveyor coordination, with centers closer to Jackson County and northwest Wisconsin. This

closer to Jackson County and northwest Wisconsin. This would require surveyors to file frequent field status reports. Such reports are necessary to make sure all of that is covered.

le intensive surveys would be accompanied by presurvey arches to ease time constraints placed on bander(s) and the contract of the term of the contract of th

## KIRTLAND'S WARELER

## Census of Singing Males

Countyi						
054	erver:					
Return completed form to: Bureau of Endangered Resources Department of Natural Resources Box 7921 Madison, WI 53707-7921 Telephone: (608) 266:0545						
Date	7.==	Range	Section	Sec.	To. of	Start & End Time
						**

rbler in your bird guide. black streaking on the si dark streaking on the hea , the slate-grey or bluish of the male. Do not confus bler, prairie warbler, or er is large for a warbler, It is relatively tame, wa L, and nests on the grou lls can be heard 1/4 mile tics: Young jack pine st t may be as low as 30 acr in height. Trees in my open areas. Trees with well-drained sites with Sometimes uses Norway p ers may make a survey or if one is not sure of ime between sunrise and 11 brough June 19. Weather possible. Discontinue s it if rains. ening stop near the center

If walking or driving a

tions should be located

henever possible to redu

lines, use a compass and p g station, play the resource for 1/2 minute and nutes (Kirtland's warblers epeat this procedure before bler song is heard, obsertify the bird. Identification of the warbler should lagging tape. The appro the cover map of the star ler song is heard, do not at location as it may har Ĭ ti t ot ar Ο. h 2 O ż đ



