

**MONITORING THE HABITAT OF  
UTE LADIES' TRESSES (*SPIRANTHES DILUVIALIS*)  
ON THE SOUTH FORK SNAKE RIVER, IDAHO—  
METHODS AND FIRST YEAR RESULTS**

by

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## ABSTRACT

This project developed a systematic, easily repeatable monitoring method for objectively measuring annual changes and threats to the habitat of *Spiranthes diluvialis* (Ute ladies' tresses). Twenty-three permanent habitat monitoring transects were established at 18 suitable population occurrences along the South Fork of the Snake River, Idaho. An index of habitat change was used that involves the measurement of specific habitat attributes important for the persistence of *Spiranthes diluvialis*. The index integrates what we have learned about *Spiranthes diluvialis* habitat from prior vegetation sampling as well as current floodplain dynamics and vegetation succession modeling. A checklist of habitat attributes are measured at both the population (transect) scale and the landscape scale. The measurements of habitat attributes use a relative scale, yielding cumulative values representing current habitat conditions at each transect. Data collected in 2001 provides a reference point for measuring future environmental change at both the population and landscape levels. The first year focused on development, testing, and baseline data collection. Following years will be used for refinement, adding additional transects where necessary, collecting more baseline habitat data, and monitoring habitat for threats or changes.

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## TABLE OF CONTENTS

ABSTRACT AND ACKNOWLEDGMENTS .....	i
TABLE OF CONTENTS .....	ii
LIST OF TABLES, FIGURES, AND APPENDICES .....	iii
INTRODUCTION .....	1
METHODS .....	2
Transect Establishment Procedure .....	2
Photo-point Monitoring Procedure .....	3
Habitat Monitoring Procedure .....	3
RESULTS AND DISCUSSION .....	7
Transect Establishment and Environmental Description Data .....	7
Habitat Conditions at the Population Scale .....	10
Habitat Conditions at the Landscape Scale .....	15
CONCLUSIONS AND RECOMMENDATIONS .....	18
REFERENCES .....	19

## LIST OF TABLES

Table 1. A summary of the transect establishment data and environmental setting of each habitat monitoring transect .....	8
Table 2. Mean values for habitat attributes at each transect .....	13
Table 3. Values for habitat attributes measured on the landscape level for each transect .....	17

## LIST OF FIGURES

Figure 1. Schematic diagram showing the layout of atypical 25 m long habitat monitoring transect .....	3
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## LIST OF APPENDICES

Appendix 1. Detailed steps and equipment needed for transect establishment, photo-point monitoring, and habitat monitoring	
Appendix 2. Field useable copy of the " <i>Spiranthes diluvialis</i> Transect Establishment and Environmental Description Data Form"	
Appendix 3. Field useable copy of the " <i>Spiranthes diluvialis</i> Habitat Monitoring Checklist"	
Appendix 4. Field useable copy of the " <i>Spiranthes diluvialis</i> Habitat Monitoring Tally Sheet"	