

LAKE CASCADE *Resource Management Plan*

U.S. Department of the Interior
Bureau of Reclamation
Pacific Northwest Region
Snake River Area Office



*February 2002 **

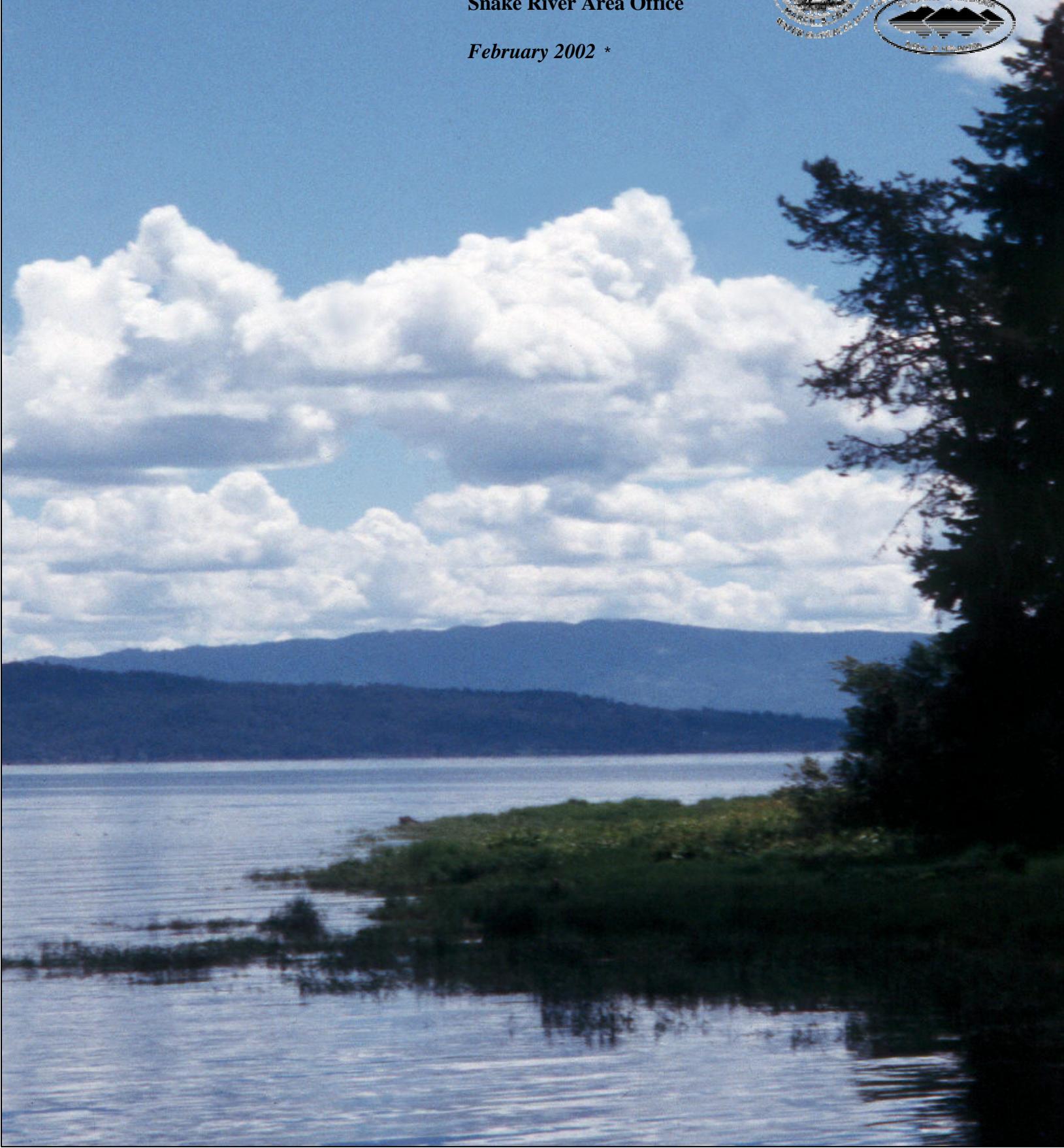




Table of Contents

CONTENTS

Chapter 1	Introduction.....	1-1
1.1	RMP Program and Policy	1-1
1.2	Purpose and Scope of the Plan.....	1-1
1.3	Location and Description of the RMP Study Area	1-2
1.4	Project History	1-4
1.5	Overview of Public Involvement, Agency and Tribal Coordination.....	1-4
 Chapter 2	 Existing Conditions.....	 2-1
2.1	Natural Resources	2-1
2.1.1	Climate	2-1
2.1.2	Topography	2-1
2.1.3	Hydrology	2-2
2.1.4	Water Quality.....	2-2
2.1.5	Geology.....	2-6
2.1.6	Soils and Shoreline Erosion.....	2-7
2.1.7	Vegetation.....	2-9
2.1.8	Fish and Wildlife.....	2-13
2.2	Visual Resources.....	2-28
2.2.1	Summary of 1991 Visual Resource Conditions	2-28
2.2.2	Changes in the Visual Environment Since 1991.....	2-29
2.2.3	Summary of Comparison of Changes	2-29
2.3	Cultural Resources	2-29
2.3.1	Prehistoric Resources	2-30
2.3.2	Historic Resources	2-31
2.3.3	Traditional Cultural Properties	2-32
2.4	Sacred Sites.....	2-32
2.5	Indian Trust Assets.....	2-33
2.6	Socioeconomics	2-33
2.6.1	Demographic Profile	2-33
2.6.2	Economic Setting	2-34

Table of Contents

Chapter 3	Existing Land Use and Management	3-1
3.1	Project Facilities and General Operations	3-1
3.2	Land Status and Management	3-2
3.2.1	Overview	3-2
3.2.2	Land Use Designations	3-3
3.2.3	Leases.....	3-3
3.2.4	Agricultural Easements and Agricultural Leases.....	3-4
3.2.5	Flowage Easements.....	3-4
3.2.6	Permits	3-4
3.2.7	Encroachments on Reclamation Lands.....	3-8
3.3	General Land Use Patterns	3-8
3.3.1	Overview	3-8
3.3.2	Forest.....	3-9
3.3.3	Agriculture	3-9
3.3.4	Residential Subdivisions	3-9
3.4	Public Facilities, Utilities, and Services	3-10
3.4.1	Electrical	3-10
3.4.2	Potable Water	3-10
3.4.3	Wastewater.....	3-10
3.4.4	Solid Waste	3-11
3.4.5	Fire Protection.....	3-11
3.4.6	Law Enforcement	3-11
3.5	Recreation	3-12
3.5.1	Recreation Activities and Use Levels	3-12
3.5.2	Recreation Facilities.....	3-16
3.6	Access and Transportation.....	3-19
3.6.1	General.....	3-19
3.6.2	Local Road System	3-20
Chapter 4	The RMP Planning Process	4-1
4.1	Overview	4-1
4.2	Public Involvement Program	4-3
4.2.1	Newsbriefs	4-3
4.2.2	Public Meetings	4-4
4.2.3	Ad Hoc Work Group	4-5
4.2.4	World Wide Web	4-6
4.3	Tribal Consultation	4-6
4.3.1	Overview of Government to Government Consultation with Tribes	4-6
4.3.2	National Historic Preservation Act Requirements	4-6
4.3.3	Indian Trust Assets	4-6
4.3.4	Sacred Sites.....	4-6
4.3.5	Other Laws and Regulations	4-7
4.4	Agency Coordination.....	4-7

Table of Contents

Chapter 5 Resource Management	5-1
5.1 Land Use Designations	5-1
5.1.1 Wildlife Management Areas (WMAs).....	5-1
5.1.2 Conservation/Open Space (C/OS)	5-2
5.1.3 Recreation	5-9
5.1.4 Rural Residential (RR).....	5-10
5.1.5 Operations & Maintenance (O&M)	5-11
5.2 Goals, Objectives, and Management Actions	5-11
5.2.1 Natural Resources (NAT)	5-12
5.2.2 Cultural Resources, Sacred Sites, and Indian Trust Assets (CUL)	5-21
5.2.3 Recreation (REC).....	5-24
5.2.4 Operations, Maintenance, and Enforcement (OME)	5-39
5.2.5 Land Use, Access, and Implementation (LAI)	5-40
Chapter 6 Implementation Program.....	6-1
6.1 Introduction.....	6-1
6.2 Implementation Components	6-1
6.2.1 Management Actions	6-1
6.2.2 Prioritization.....	6-1
6.2.3 Timing and Sequencing	6-1
6.2.4 Agencies Responsible for Implementation.....	6-2
6.2.5 Funding	6-2
6.2.6 Monitoring	6-2
6.3 Amending and Updating the RMP.....	6-2
6.3.1 Amending Information in the RMP	6-2
6.3.2 Updating the RMP	6-2
Chapter 7 Glossary of Terms	7-1
Chapter 8 Bibliography.....	8-1
8.1 Bibliography.....	8-1
8.2 Personal Communications and Letters.....	8-2
APPENDICES	
Appendix A Problem Statement for the RMP	
Appendix B Agency and Tribal Consultation/Coordination	
Appendix B-1 U.S. Fish and Wildlife Service	
Appendix B-2 Tribes	
Appendix C Lease Agreement	
Appendix D Legal Mandates	
Appendix E Annual Reports and Activities	

List of Tables

Table 2.1-1 Constructed Wetlands at Lake Cascade.....	2-6
Table 2.1-2 Upland Shrub Cover Type Species.....	2-12
Table 2.1-3 Conifer Forest Cover Type Species.....	2-12
Table 2.1-4 Game and Non-Game Fish Species Found in Lake Cascade	2-14
Table 2.1-5 IDFG General Management Objectives for Waters in the Payette River Basin.....	2-17
Table 2.1-6 Water-Oriented Birds Inhabiting the Lake Cascade RMP Area	2-18
Table 2.1-7 Neotropical Migrants Common in the Lake Cascade RMP Area	2-21
Table 2.1-8 Other Bird Species Found at the Cascade Lake RMP Study Area	2-22
Table 2.1-9 Amphibians and Reptiles Found in the Lake Cascade RMP Area	2-23
Table 2.1-10 Small Mammal Species Present in the Lake Cascade RMP Area.....	2-24
Table 2.1-11 Furbearers and Large Mammals Found in the Lake Cascade RMP Area	2-25
Table 2.6-1 Valley County and Idaho State Age Distribution Comparison by Year	2-34
Table 3.1-1 Project Operations Data – Lake Cascade	3-2
Table 3.5-1 Existing Recreation Facilities at Lake Cascade.....	3-17
Table 3.5-2 Campgrounds at Lake Cascade.....	3-18
Table 4.1-1 Lake Cascade RMP Update Summary of Issues and Opportunities – Public Input to Date	4-2
Table 4.2-1 Ad Hoc Work Group Membership	4-4
Table 5.1-1 Land Use Designations and Corresponding Acreage	5-1
Table 5.1-2 Lake Cascade Wildlife Management Areas	5-2
Table 5.2-1 Proposed Recreation Activities at Lake Cascade	5-25
Table 5.2-2 Lake Cascade Priority Boat Ramp Extension Projects.....	5-32
Table 6.1-1 Management Actions for Natural Resources (NAT).....	6-3
Table 6.1-2 Management Actions for Cultural Resources, Sacred Sites, and Indian Trust Assets (CUL)	6-12
Table 6.1-3 Management Actions for Recreation (REC).	6-14
Table 6.1-4 Management Actions for Operations, Maintenance, and Enforcement (OME).....	6-22
Table 6.1-5 Management Actions for Land Use, Access, and Implementation (LAI)	6-24

List of Figures

Regional Location Map.....	Frontispiece
Figure 1.3-1 RMP Study Area	1-3
Figure 2.1-1 Topography and Water Features	2-3
Figure 2.1-2 Primary Wildlife Habitat and Buffers	2-19
Figure 3.2-1 Existing Land Use Plan (1991 RMP) – Land Status Map	3-5
Figure 3.5-1 Lake Cascade Existing Recreation Facilities	3-13
Figure 4.1-1 RMP Planning Process Schedule and Work Plan	4-1
Figure 5.1-1 Lake Cascade RMP Map (2001)	5-3
Figure 5.1-2 Lake Cascade RMP Map - North Area	5-5
Figure 5.1-3 Lake Cascade RMP Map - South Area	5-7

List of Photos

Photo 1-1 Lake Cascade.....	1-3
Photo 1-2 Aerial View of Cascade Dam.	1-4
Photo 2-1 Lake Cascade and Surrounding Terrain.	2-2
Photo 2-2 Shoreline Erosion.	2-8
Photo 2-3 Rocky Mountain Elk.	2-24
Photo 2-4 Lake Cascade and West Mountain	2-28
Photo 3-1 Agricultural Easement	3-4
Photo 3-2 Public Boat Docks Boulder Creek Day Use Area.	3-7
Photo 3-3 Residential Subdivisions.	3-9
Photo 3-4 Campground at Lake Cascade.	3-15
Photo 3-5 Dispersed Camping.	3-15
Photo 3-6 Sailing on Lake Cascade.	3-16
Photo 4-1 AHWG Presentation.	4-5
Photo 4-2 AHWG Site Visit.	4-5
Photo 4-3 AHWG Meeting.	4-5

Acronyms and Abbreviations

ADA	Americans with Disabilities Act
AE	agricultural easement
AHWG	Ad Hoc Work Group
ATV	all-terrain vehicle
B.P.	Before Present
BEMP	Bald Eagle Management Plan
BMP	Best Management Practice
C/OS	conservation/open space (land use designation)
CAR	Coordination Act Report
COE	Corps of Engineers
CFR	Code of Federal Regulations
Cfs	cubic feet per second
CRCC	Cascade Reservoir Coordinating Council
CRMP	Cultural Resources Management Plan
DOI	Department of the Interior
EA	Environmental Assessment
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FR	Federal Register
FWCA	Fish and Wildlife Coordination Act
FWS	Fish and Wildlife Service
GUI	Graphical User Interface
HIP	Habitat Improvement Plan
IDEQ	Idaho Department of Environmental Quality
IDFG	Idaho Department of Fish and Game
IDPR	Idaho Department of Parks and Recreation
ITA	Indian Trust Assets
ITD	Idaho Transportation Department
IRMS	Integrated Resources Management System
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
ORV	off-road vehicle
P.L.	Public Law
PN	Pacific Northwest
PWC	personal watercraft
Reclamation	U.S. Bureau of Reclamation
RI	Reclamation Instruction
RMP	Resource Management Plan
RR	rural residential (land use designation)
RV	recreation vehicle
SH	State Highway
SICMS	South Idaho Christian Mission Society

Acronyms and Abbreviations

SISCRA	Southwest Idaho Senior Citizens Recreation Association
TAC	Technical Advisory Committee
TCP	traditional cultural property
TMDL	total maximum daily load
UFAS	Uniform Federal Accessibility Standards
UPRCWMA	Upper Payette River Cooperative Weed Management Area
USFS	U.S. Forest Service
WAG	Watershed Advisory Group
WMA	Wildlife Management Area (land use designation)