

Table of Contents



Table of Contents

| | Page |
|---|-----------|
| Chapter 1 – Land-Use Plan..... | 1 |
| Introduction..... | 1 |
| Purpose and Scope | 2 |
| Authority | 2 |
| Agency Coordination..... | 2 |
| Public Involvement | 3 |
| Environmental Setting | 3 |
| Location and General Description | 3 |
| Environmental Characteristics | 5 |
| Physiography and Geology..... | 5 |
| Climate..... | 6 |
| Vegetation..... | 7 |
| Terrestrial Ecosystem..... | 9 |
| Aquatic Ecosystem..... | 10 |
| Lands..... | 10 |
| Water Resources | 11 |
| Social and Economic..... | 11 |
| Cultural Resources | 12 |
| Indian Trust Assets | 13 |
| Land-Use Rights | 13 |
| Environmental Compliance | 13 |
| Chapter 2 – Fish and Wildlife Management and Administration..... | 15 |
| Managing Agency Policy..... | 15 |
| Resource Management..... | 15 |
| Wildlife | 15 |
| Animal Species Overview..... | 15 |
| Existing Wildlife Habitat | 16 |
| Wildlife Water Sources..... | 16 |
| Management Objectives..... | 17 |
| Habitat Development Planning | 17 |
| Wildlife Management Practices | 17 |
| Water Level Fluctuations..... | 19 |
| Fisheries | 21 |
| Threatened or Endangered Species | 22 |
| Habitat Use and Status of Species | 22 |
| Federal Listed Threatened and Endangered Species | 23 |
| Candidate Species | 24 |
| Species of Concern | 24 |
| Visitor Management..... | 25 |
| Visitor Use | 25 |
| Visual Resource Management | 25 |

Contents

| | |
|---|-----------|
| Operations, Maintenance, and Capital Improvements | 25 |
| Public Use, Regulations, and Enforcement..... | 26 |
| Off-Road Vehicle Use..... | 26 |
| Special Uses | 26 |
| Professional Guiding Services | 26 |
| Safety and First Aid | 26 |
| Chapter 3 – Recreation Management and Administration..... | 27 |
| Managing Agency Policy..... | 27 |
| Visitor Management..... | 28 |
| Visitor Use | 28 |
| Recreation Facilities..... | 28 |
| Public Use, Regulations, and Enforcement..... | 28 |
| Special Uses and Events | 28 |
| Safety and First Aid | 29 |
| ADA Accessibility | 29 |
| Concessions..... | 29 |
| Reclamation’s Concession Principles | 30 |
| Concession Contracts..... | 30 |
| Cabin Lot Permits | 30 |
| Exclusive Use..... | 31 |
| Chapter 4 – Agency Responsibility | 32 |
| Agreements | 32 |
| Responsibilities..... | 32 |
| Maintenance | 32 |
| Facilities..... | 32 |
| Fencing..... | 32 |
| Signing..... | 32 |
| Roads..... | 33 |
| Shoreline Erosion..... | 33 |
| Public Use Regulations | 33 |
| Land Use Authorizations and Land Disposal | 34 |
| Reports of Serious Accidents and Damages | 35 |
| Recreation Facilities in Relation to Flood Plain Management | 35 |
| Recreation Use Data Report..... | 36 |
| Reservoir Reviews | 37 |
| Changes in Resource Management Plan..... | 37 |
| Trespass..... | 37 |
| Boundary Trespass..... | 37 |
| Unauthorized or Improper Use | 38 |
| Shoreline Jurisdiction..... | 38 |
| Shoreline Erosion..... | 38 |
| Noxious Weed and Nuisance Plant Species Management..... | 39 |
| Fire Management | 39 |
| Fire Policy..... | 39 |

| | |
|---|-----------|
| Fire Prevention..... | 40 |
| Fire Suppression..... | 40 |
| Interagency Cooperative Fire Management Agreement ... | 40 |
| Off-Road Vehicle Use..... | 41 |
| Prior Rights | 41 |
| Land Use Authorization..... | 41 |
| Current Box Butte Reservoir Land Use Authorizations ... | 41 |
| Other Agreements | 42 |
| Use Rights to be Granted by Administering Agency..... | 44 |
| Leasable Minerals | 45 |
| Health and Safety | 45 |
| Threatened and Endangered Species | 45 |
| Cultural Resources | 46 |
| Environmental Compliance | 47 |
| Miscellaneous | 47 |
| Aircraft..... | 47 |
| Facilities..... | 48 |
| Shooting Ranges | 48 |
| Chapter 5 – Reservoir Operations..... | 49 |
| Reservoir’s Authorized Purposes..... | 49 |
| Reservoir Operations and Flood Control | 49 |
| Reservoir Operations and Fisheries | 50 |
| Reservoir Operations and Recreation | 51 |
| Downstream Releases and Operations Land..... | 52 |
| References Cited..... | 54 |
| Figures and Photos | |
| Figure 1 – Box Butte Reservoir Allocations..... | 5 |
| Figure 2 – Box Butte Reservoir Precipitation/Inflow | 6 |
| Figure 3 – Box Butte Reservoir 2007 E.O.M. Reservoir Levels | 17 |
| Figure 4 – Goat Grazing Demonstration Project | 19 |
| Figure 5 – Box Butte Annual Historical Inflow..... | 20 |
| Figure 6 – Box Butte Annual Precipitation..... | 20 |
| Figure 7 – Box Butte End of Month Elevation | 21 |
| Figure 8 – Box Butte Reservoir 10-Year Reservoir Level | 22 |
| Figure 9 – Main Park Entrance Sign..... | 27 |
| Figure 10 - Box Butte Reservoir 10-Year Reservoir Level | 50 |
| Figure 11 - Box Butte Reservoir Inflow/Outflow..... | 53 |
| Tables | |
| Table 1 – Reservoir Statistics | 4 |
| Table 2 – Climatic Conditions | 7 |
| Table 3 – Box Butte Reservoir Soil Descriptions..... | 10 |

Contents

| | |
|--|----|
| Table 4 – Federally Listed and Proposed Threatened or Endangered Species, Candidate Species..... | 22 |
| Table 5 – State Listed Endangered, Threatened and At Risk Species..... | 24 |
| Table 6 – Box Butte Reservoir Capacity Allocations..... | 50 |
| Table 7 – Maximum and Minimum Reservoir Levels..... | 51 |

Maps

| | |
|--|-----|
| Box Butte Reservoir Land Cover..... | 8a |
| Box Butte Reservoir Soil Associations..... | 10a |
| Box Butte Reservoir Topography..... | 18a |
| Box Butte Reservoir Land and Water Use..... | 33a |
| Box Butte Reservoir Historical Photo Layout..... | 33b |
| Mirage Flats Unit..... | 52a |

Appendix A – Agreements

| | |
|---|--|
| A1 – Lease Agreement #14-06-700-3816-A and Amendments | |
| A2 – Management Plan for Box Butte Wildlife Management Area 2008 | |
| A3 – Box Butte Reservoir Revised Lake Management Plan 1998 | |
| A4 – Interagency Cooperative Fire Management Agreement | |
| A5 – Agreement Between the United States, The Nebraska Game and Parks Commission, and the Mirage Flats Irrigation District to Raise the Minimum Reservoir Level in Box Butte Reservoir (with Amendment) | |

Appendix B – Regulations

| | |
|----------------------------------|--|
| B1 – Environmental Statutes | |
| B2 – GP 135 Special Stipulations | |

Appendix C – Exhibits

| | |
|--|--|
| C1 – Categorical Exclusion Checklist #278-08-07-BB-RMP | |
| C2 – Land Use Authorization Forms – SF-299 and Form 7-2540 | |