

Yakima County Best Available Science Update, 2026

DOC4 - FINAL Table of Contents – for Review
Yakima County Long Range Planning (ksw4)

Executive Summary	9
Purpose and Scope	9
Compliance with Growth Management Act Requirements.....	9
Compliance with Shoreline Management Act Requirements	9
Integration with Voluntary Stewardship Program	9
New Legislation, Relevant State and Federal Court and Hearings Board Actions..	9
Key Findings and Recommendations	9
Front Matter.....	10
List of Figures	10
List of Tables	10
List of Maps	10
Glossary of Terms	10
Acronyms and Abbreviations	10
Chapter 1: Introduction.....	11
1.1 Best Available Science Project and Process	11
1.2 Acquisition and Integration of Best Available Science	11
1.2.1 Science Update Process	11
1.2.2 Recurring Updates to Best Available Science through the BAS Portal as a Regional Program	11
1.2.3 Integrated Access to BAS	11
1.2.4 Peer Review and Quality Assurance.....	11
1.2.5 Scientific Information Sources and Criteria (WAC 365-195-905)	11
1.2.6 Documentation Requirements (WAC 365-195-910).....	11
1.3 The BAS Portal.....	11
1.4 Growth Management Act Framework	11
1.5 Shoreline Management Act Requirements	11
1.6 Voluntary Stewardship Program Integration	11
1.7 The 2004 Best Available Science Report	11
1.8 The 2026 Best Available Science Update.....	11
1.9 The Yakima Basin Science Advisory Group	11

1.9.1 Subject Matter Experts	11
1.9.2 Consultation Process and Timeline	11
1.9.3 Review and Comment Resolution	11
1.10 Federal, State and Tribal Government Coordination	11
1.10.1 Agency Consultation Record	11
1.10.2 Tribal Government Consultation Record	11
1.11 Stakeholder Involvement	11
Works Cited - Chapter 1	11
Chapter 2: Stream Corridor, Shorelines, Riparian and Flood Management Zones.....	12
2.1 Introduction	12
2.2 Shoreline Management Designations	12
2.2.1 Aquatic Environment	12
2.2.2 Natural Environment	12
2.2.3 Rural Conservancy Environment.....	12
2.2.4 Urban Conservancy Environment	12
2.2.5 Shoreline Residential Environment	12
2.2.6 Urban/High Intensity Environment.....	12
2.3 Stream Types and Classification	12
2.4 Stream Corridor Functions and Values	12
2.4.1 Hydrologic Functions.....	12
2.4.2 Water Quality Functions	12
2.4.3 Sediment Transport and Channel Stability	12
2.4.4 Nutrient Cycling	12
2.4.5 Temperature Regulation.....	13
2.4.6 Large Woody Debris Recruitment	13
2.4.7 Aquatic Biology	13
2.4.8 Riparian Vegetation Functions	13
2.4.9 Floodplain Connectivity	13
2.4.10 Hyporheic Zone Functions	13
2.4.11 Aquifer Recharge and Discharge	13
2.4.12 Groundwater-Surface Water Connectivity	13
2.5 Riparian and Aquatic Habitat	13
2.5.1 Anadromous Fisheries	13
2.5.2 Resident Fish Species	13
2.5.3 Terrestrial Wildlife	13
2.5.4 Other Fish and Wildlife Species	13

2.5.5 Habitat Complexity and Diversity	13
2.6 Effects of Disturbance on Stream Corridor Functions.....	13
2.6.1 Vegetation Removal.....	13
2.6.2 Channel Modifications.....	13
2.6.3 Fire Impacts	13
2.6.4 Flood Disturbances	13
2.6.5 Drought Impacts.....	13
2.6.6 Invasive Species	13
2.6.7 Post-Disturbance Recovery Trajectories (See Appendix G).....	13
2.7 Flood Hazard Areas.....	13
2.7.1 Flood Types and Mechanisms	13
2.7.2 Floodplain Functions	13
2.7.3 FEMA Flood Insurance Rate Maps	13
2.7.4 Channel Migration Zones	13
2.7.5 Environmental Change Effects on Flood Hazards.....	13
2.8 General Management Strategies	13
2.8.1 Protection Standards.....	13
2.8.2 No Net Loss of Ecological Functions.....	13
2.8.3 Riparian Management Zones	13
2.9 Stream Corridor Inventory and Methodology	14
2.9.1 Stream Classification Methods.....	14
2.9.2 Habitat Assessment	14
Works Cited - Chapter 2.....	14
Chapter 3: Wetlands and Management Zones	15
3.1 Introduction.....	15
3.2 Definitions and Regulatory Framework.....	15
3.3 Identification and Characterization.....	15
3.4 Wetlands in Eastern Washington.....	15
3.4.1 Wetland Functions	15
3.4.2 Wetland Classification	15
3.4.3 Vernal Pools and Seasonal Wetlands	15
3.5 Wetland Functions and Values	15
3.5.1 Hydrologic Functions.....	15
3.5.2 Water Quality Improvement.....	15
3.5.3 Habitat Functions	15
3.5.4 Carbon Sequestration	15
3.6 Disturbances and Impacts to Wetlands	15

3.6.1 Direct Alterations	15
3.6.2 Hydrologic Modifications	15
3.6.3 Climate Change Impacts	15
3.6.4 Post-Fire Wetland Recovery (See Appendix G)	15
3.7 Wetland Mitigation	15
3.7.1 Mitigation Sequencing	15
3.7.2 Success Criteria	15
3.7.3 Monitoring and Adaptive Management.....	15
3.8 Wetland Delineation and Assessment	15
3.8.1 Federal Delineation Methods	15
3.8.2 Regional Supplements	15
3.9 Management Zones	15
3.9.1 Management Zone Functions.....	15
3.9.2 Management Zone Width Recommendations	15
3.10 Washington State Wetland Rating System	15
3.10.1 Eastern Washington Rating System.....	15
3.10.2 Category I Wetlands.....	15
3.10.3 Category II Wetlands.....	16
3.10.4 Category III and IV Wetlands	16
Works Cited - Chapter 3.....	16
Chapter 4: Critical Aquifer Recharge, Surface and Groundwater	17
4.1 Introduction	17
4.2 Functions and Values of Critical Aquifer Recharge Areas	17
4.3 Aquifer Susceptibility to Contamination	17
4.4 Groundwater Contamination Sources and Pathways	17
4.5 Contamination Prevention Strategies	17
4.6 Groundwater Recharge for Drought Resiliency, Surface Water Interaction, and Flood Control	17
4.7 Managed Aquifer Recharge	17
4.7.1 MAR Overview and Principles.....	17
4.7.2 MAR Methods Applicable to Yakima County.....	17
4.7.3 Hydrogeologic Suitability Assessment	17
4.7.4 Flood Resiliency Benefits.....	17
4.7.5 Drought Resiliency Benefits	17
4.7.6 Critical Habitat Co-Benefits	17
4.7.7 Post-Disturbance Recovery Role (See Appendix G).....	17
4.7.8 Design and Implementation Considerations.....	17

4.7.9 Regulatory and Legal Framework	17
4.7.10 Monitoring and Adaptive Management.....	17
4.7.11 Case Studies and Best Practices	17
4.7.12 Integration with Yakima Basin Integrated Plan	17
Works Cited - Chapter 4	17
Chapter 5: Fish and Wildlife Habitat Conservation Areas	18
5.1 Introduction	18
5.2 Functions and Values of Fish and Wildlife Habitat.....	18
5.3 Habitat Types in Yakima County.....	18
5.4 Priority Habitats and Species.....	18
5.5 Threatened and Endangered Species	18
5.6 Habitat Evaluation Methods	18
5.7 Vegetative Matrix and Structural Diversity	18
5.8 Habitat Inventory Methodology and GAP Analysis	18
5.9 Habitat Connectivity and Genetic Resiliency	18
5.9.1 Migration Corridors.....	18
5.9.2 Disturbance Impacts on Connectivity	18
5.9.3 Environmental Change-Driven Range Shifts.....	18
5.9.4 Genetic Diversity and Population Viability	18
5.9.5 Corridor Restoration and Enhancement.....	18
5.9.6 Post-Disturbance Corridor Recovery (See Appendix G)	18
Works Cited - Chapter 5	18
Chapter 6: Frequently Flooded Areas	19
6.1 Introduction	19
6.2 Functions and Values of Floodplains	19
6.3 Flooding Mechanisms in the Yakima Basin	19
6.3.1 Snowmelt Flooding.....	19
6.3.2 Rain-on-Snow Events	19
6.3.3 Atmospheric Rivers	19
6.3.4 Post-Disturbance Flooding (See Appendix G).....	19
6.4 Environmental Change Effects on Flood Hazards	19
6.5 Floodplain Management Approaches	19
6.5.1 Nature-Based Solutions	19
6.5.2 Floodplain Reconnection.....	19
6.5.3 Integration with National Flood Insurance Program	19
Works Cited - Chapter 6	19
Chapter 7: Geologically Hazardous Areas	20

7.1 Introduction	20
7.2 Functions and Values	20
7.3 Volcanic Hazards.....	20
7.4 Seismic Hazards.....	20
7.5 Landslide Hazards	20
7.5.1 Slope Failure Mechanisms	20
7.5.2 Climate Change Effects on Slope Stability	20
7.5.3 Post-Fire Landslide Vulnerability (See Appendix G)	20
7.6 Erosion Hazards	20
7.7 Lowland Drainage Areas	20
7.7.1 Characteristics and Formation	20
7.7.2 Development Constraints	20
7.8 Mine Hazards.....	20
7.9 Mapping Methodology and Assessment	20
Works Cited - Chapter 7	20
Chapter 8: Resiliency and Sustainability	21
8.1 Introduction	21
8.2 Environmental Change in the Yakima Basin.....	21
8.2.1 Climate Projections	21
8.2.2 Temperature and Precipitation Trends	21
8.2.3 Hydrologic Regime Shifts	21
8.2.4 Analysis and Modeling	21
8.3 Extreme Weather Events.....	21
8.3.1 Extreme Flood Events	21
8.3.2 Drought Intensification	21
8.3.3 Wildfire Risk	21
8.3.4 Extreme Heat	21
8.3.5 Air Quality Impacts	21
8.3.6 Atmospheric Rivers and Extreme Precipitation	21
8.3.7 Compound and Cascading Events	21
8.4 Response and Preparation	21
8.4.1 Nature-Based Solutions	21
8.4.2 Adaptation Strategies	21
8.4.3 Early Warning Systems	21
8.5 Integrated Management and Public Protection	21
8.6 Public Infrastructure Resilience	21
8.7 Yakima Basin Economy	21

8.7.1 Agriculture and Water Security.....	21
8.7.2 Recreation and Tourism	21
8.7.3 Public Health and Safety	21
8.7.4 Economic Valuation of Ecosystem Services	21
Works Cited - Chapter 8	21
Chapter 9: Monitoring and Adaptive Management.....	22
9.1 Introduction	22
9.2 Monitoring Frameworks by Critical Area Type	22
9.3 High Resolution Change Detection.....	22
9.4 Regulatory Compliance and Effectiveness	22
9.5 Voluntary Stewardship Program Monitoring	22
9.6 Climate Monitoring and Early Warning	22
9.7 Updated Technology and Tools	22
9.7.1 Remote Sensing and LiDAR	22
9.7.2 GIS-Based Modeling	22
9.7.3 Real-Time Environmental Sensors.....	22
Works Cited - Chapter 9	22
Chapter 10: Cross Cutting Issues.....	23
10.1 Tribal Knowledge and Co-Management	23
10.1.1 Traditional Ecological Knowledge	23
10.1.2 Yakama Nation Treaty Rights and Interests.....	23
10.1.3 Collaborative Management Approaches	23
10.1.4 Cultural Resources Protection.....	23
10.2 Cumulative Effects Analysis.....	23
10.2.1 Multi-Disturbance Cumulative Impacts	23
10.2.2 Basin-Scale Assessment Methods.....	23
10.2.3 Growth Projections and Buildout Analysis.....	23
10.2.4 Thresholds and Tipping Points.....	23
10.3 Nature-Based and Geoengineered Solutions	23
10.3.1 Green Infrastructure	23
10.3.2 Ecological Restoration	23
10.3.3 Multi-Benefit Projects	23
10.4 Integration and Long-Term Management	23
10.4.1 Overlapping Critical Areas.....	23
10.4.2 Coordination with Comprehensive Plan Elements	23
10.4.3 Regional Coordination.....	23
Works Cited - Chapter 10	23

Appendices	24
Appendix A: Riparian Management Zones - Width Analysis and Recommendations	24
Appendix B: BAS Portal Technical Documentation.....	24
Appendix C: Science Advisory Group and Subject Matter Expert Roster	24
Appendix D: Comprehensive Bibliography and References	24
Appendix E: Managed Aquifer Recharge Site Assessment Methodology	24
Appendix F: Habitat Connectivity Analysis and Mapping	24
Appendix G: Post-Disturbance Critical Areas Management	24
G.1 Post-Fire Recovery Across Critical Area Types.....	24
G.2 Post-Flood Recovery and Restoration.....	24
G.3 Drought Recovery Trajectories	24
G.4 Compound Disturbance Effects	24
G.5 Monitoring Post-Disturbance Recovery	24
Appendix H: Climate Projections and Downscaling Methodology.....	24
Appendix I: Monitoring Protocols by Critical Area Type	24
Appendix J: High Resolution Change Detection (HRCD) Methodology	24

Executive Summary

Purpose and Scope

Compliance with Growth Management Act Requirements

Compliance with Shoreline Management Act Requirements

Integration with Voluntary Stewardship Program

**New Legislation, Relevant State and Federal Court and Hearings
Board Actions**

Key Findings and Recommendations

Front Matter

List of Figures

List of Tables

List of Maps

Glossary of Terms

Acronyms and Abbreviations

Chapter 1: Introduction

1.1 Best Available Science Project and Process

1.2 Acquisition and Integration of Best Available Science

1.2.1 Science Update Process

1.2.2 Recurring Updates to Best Available Science through the BAS Portal as a Regional Program

1.2.3 Integrated Access to BAS

1.2.4 Peer Review and Quality Assurance

1.2.5 Scientific Information Sources and Criteria (WAC 365-195-905)

1.2.6 Documentation Requirements (WAC 365-195-910)

1.3 The BAS Portal

1.4 Growth Management Act Framework

1.5 Shoreline Management Act Requirements

1.6 Voluntary Stewardship Program Integration

1.7 The 2004 Best Available Science Report

1.8 The 2026 Best Available Science Update

1.9 The Yakima Basin Science Advisory Group

1.9.1 Subject Matter Experts

1.9.2 Consultation Process and Timeline

1.9.3 Review and Comment Resolution

1.10 Federal, State and Tribal Government Coordination

1.10.1 Agency Consultation Record

1.10.2 Tribal Government Consultation Record

1.11 Stakeholder Involvement

Works Cited - Chapter 1

Chapter 2: Stream Corridor, Shorelines, Riparian and Flood Management Zones

2.1 Introduction

2.2 Shoreline Management Designations

2.2.1 Aquatic Environment

2.2.1.1 Ecological Characteristics and Functions

2.2.1.2 Scientific Criteria for Designation

2.2.1.3 Management Approach

2.2.2 Natural Environment

2.2.2.1 Ecological Characteristics and Functions

2.2.2.2 Scientific Criteria for Designation

2.2.2.3 Management Approach

2.2.3 Rural Conservancy Environment

2.2.3.1 Ecological Characteristics and Functions

2.2.3.2 Scientific Criteria for Designation

2.2.3.3 Management Approach

2.2.4 Urban Conservancy Environment

2.2.4.1 Ecological Characteristics and Functions

2.2.4.2 Scientific Criteria for Designation

2.2.4.3 Management Approach

2.2.5 Shoreline Residential Environment

2.2.5.1 Ecological Characteristics and Functions

2.2.5.2 Scientific Criteria for Designation

2.2.5.3 Management Approach

2.2.6 Urban/High Intensity Environment

2.2.6.1 Ecological Characteristics and Functions

2.2.6.2 Scientific Criteria for Designation

2.2.6.3 Management Approach

2.3 Stream Types and Classification

2.4 Stream Corridor Functions and Values

2.4.1 Hydrologic Functions

2.4.2 Water Quality Functions

2.4.3 Sediment Transport and Channel Stability

2.4.4 Nutrient Cycling

- 2.4.5 Temperature Regulation**
- 2.4.6 Large Woody Debris Recruitment**
- 2.4.7 Aquatic Biology**
- 2.4.8 Riparian Vegetation Functions**
- 2.4.9 Floodplain Connectivity**
- 2.4.10 Hyporheic Zone Functions**
- 2.4.11 Aquifer Recharge and Discharge**
- 2.4.12 Groundwater-Surface Water Connectivity**
- 2.5 Riparian and Aquatic Habitat**
 - 2.5.1 Anadromous Fisheries**
 - 2.5.2 Resident Fish Species**
 - 2.5.3 Terrestrial Wildlife**
 - 2.5.4 Other Fish and Wildlife Species**
 - 2.5.5 Habitat Complexity and Diversity**
- 2.6 Effects of Disturbance on Stream Corridor Functions**
 - 2.6.1 Vegetation Removal**
 - 2.6.2 Channel Modifications**
 - 2.6.3 Fire Impacts**
 - 2.6.4 Flood Disturbances**
 - 2.6.5 Drought Impacts**
 - 2.6.6 Invasive Species**
 - 2.6.7 Post-Disturbance Recovery Trajectories (See Appendix G)**
- 2.7 Flood Hazard Areas**
 - 2.7.1 Flood Types and Mechanisms**
 - 2.7.2 Floodplain Functions**
 - 2.7.3 FEMA Flood Insurance Rate Maps**
 - 2.7.4 Channel Migration Zones**
 - 2.7.5 Environmental Change Effects on Flood Hazards**
- 2.8 General Management Strategies**
 - 2.8.1 Protection Standards**
 - 2.8.2 No Net Loss of Ecological Functions**
 - 2.8.3 Riparian Management Zones**

2.9 Stream Corridor Inventory and Methodology

2.9.1 Stream Classification Methods

2.9.2 Habitat Assessment

Works Cited - Chapter 2

Chapter 3: Wetlands and Management Zones

3.1 Introduction

3.2 Definitions and Regulatory Framework

3.3 Identification and Characterization

3.4 Wetlands in Eastern Washington

3.4.1 Wetland Functions

3.4.2 Wetland Classification

3.4.3 Vernal Pools and Seasonal Wetlands

3.5 Wetland Functions and Values

3.5.1 Hydrologic Functions

3.5.2 Water Quality Improvement

3.5.3 Habitat Functions

3.5.4 Carbon Sequestration

3.6 Disturbances and Impacts to Wetlands

3.6.1 Direct Alterations

3.6.2 Hydrologic Modifications

3.6.3 Climate Change Impacts

3.6.4 Post-Fire Wetland Recovery (See Appendix G)

3.7 Wetland Mitigation

3.7.1 Mitigation Sequencing

3.7.2 Success Criteria

3.7.3 Monitoring and Adaptive Management

3.8 Wetland Delineation and Assessment

3.8.1 Federal Delineation Methods

3.8.2 Regional Supplements

3.9 Management Zones

3.9.1 Management Zone Functions

3.9.2 Management Zone Width Recommendations

3.10 Washington State Wetland Rating System

3.10.1 Eastern Washington Rating System

3.10.2 Category I Wetlands

3.10.3 Category II Wetlands

3.10.4 Category III and IV Wetlands

Works Cited - Chapter 3

Chapter 4: Critical Aquifer Recharge, Surface and Groundwater

4.1 Introduction

4.2 Functions and Values of Critical Aquifer Recharge Areas

4.3 Aquifer Susceptibility to Contamination

4.4 Groundwater Contamination Sources and Pathways

4.5 Contamination Prevention Strategies

4.6 Groundwater Recharge for Drought Resiliency, Surface Water Interaction, and Flood Control

4.7 Managed Aquifer Recharge

4.7.1 MAR Overview and Principles

4.7.2 MAR Methods Applicable to Yakima County

4.7.3 Hydrogeologic Suitability Assessment

4.7.4 Flood Resiliency Benefits

4.7.5 Drought Resiliency Benefits

4.7.6 Critical Habitat Co-Benefits

4.7.7 Post-Disturbance Recovery Role (See Appendix G)

4.7.8 Design and Implementation Considerations

4.7.9 Regulatory and Legal Framework

4.7.10 Monitoring and Adaptive Management

4.7.11 Case Studies and Best Practices

4.7.12 Integration with Yakima Basin Integrated Plan

Works Cited - Chapter 4

Chapter 5: Fish and Wildlife Habitat Conservation Areas

5.1 Introduction

5.2 Functions and Values of Fish and Wildlife Habitat

5.3 Habitat Types in Yakima County

5.4 Priority Habitats and Species

5.5 Threatened and Endangered Species

5.6 Habitat Evaluation Methods

5.7 Vegetative Matrix and Structural Diversity

5.8 Habitat Inventory Methodology and GAP Analysis

5.9 Habitat Connectivity and Genetic Resiliency

5.9.1 Migration Corridors

5.9.2 Disturbance Impacts on Connectivity

5.9.3 Environmental Change-Driven Range Shifts

5.9.4 Genetic Diversity and Population Viability

5.9.5 Corridor Restoration and Enhancement

5.9.6 Post-Disturbance Corridor Recovery (See Appendix G)

Works Cited - Chapter 5

Chapter 6: Frequently Flooded Areas

6.1 Introduction

6.2 Functions and Values of Floodplains

6.3 Flooding Mechanisms in the Yakima Basin

6.3.1 Snowmelt Flooding

6.3.2 Rain-on-Snow Events

6.3.3 Atmospheric Rivers

6.3.4 Post-Disturbance Flooding (See Appendix G)

6.4 Environmental Change Effects on Flood Hazards

6.5 Floodplain Management Approaches

6.5.1 Nature-Based Solutions

6.5.2 Floodplain Reconnection

6.5.3 Integration with National Flood Insurance Program

Works Cited - Chapter 6

Chapter 7: Geologically Hazardous Areas

7.1 Introduction

7.2 Functions and Values

7.3 Volcanic Hazards

7.4 Seismic Hazards

7.5 Landslide Hazards

7.5.1 Slope Failure Mechanisms

7.5.2 Climate Change Effects on Slope Stability

7.5.3 Post-Fire Landslide Vulnerability (See Appendix G)

7.6 Erosion Hazards

7.7 Lowland Drainage Areas

7.7.1 Characteristics and Formation

7.7.2 Development Constraints

7.8 Mine Hazards

7.9 Mapping Methodology and Assessment

Works Cited - Chapter 7

Chapter 8: Resiliency and Sustainability

8.1 Introduction

8.2 Environmental Change in the Yakima Basin

8.2.1 Climate Projections

8.2.2 Temperature and Precipitation Trends

8.2.3 Hydrologic Regime Shifts

8.2.4 Analysis and Modeling

8.3 Extreme Weather Events

8.3.1 Extreme Flood Events

8.3.2 Drought Intensification

8.3.3 Wildfire Risk

8.3.4 Extreme Heat

8.3.5 Air Quality Impacts

8.3.6 Atmospheric Rivers and Extreme Precipitation

8.3.7 Compound and Cascading Events

8.4 Response and Preparation

8.4.1 Nature-Based Solutions

8.4.2 Adaptation Strategies

8.4.3 Early Warning Systems

8.5 Integrated Management and Public Protection

8.6 Public Infrastructure Resilience

8.7 Yakima Basin Economy

8.7.1 Agriculture and Water Security

8.7.2 Recreation and Tourism

8.7.3 Public Health and Safety

8.7.4 Economic Valuation of Ecosystem Services

Works Cited - Chapter 8

Chapter 9: Monitoring and Adaptive Management

9.1 Introduction

9.2 Monitoring Frameworks by Critical Area Type

9.3 High Resolution Change Detection

9.4 Regulatory Compliance and Effectiveness

9.5 Voluntary Stewardship Program Monitoring

9.6 Climate Monitoring and Early Warning

9.7 Updated Technology and Tools

9.7.1 Remote Sensing and LiDAR

9.7.2 GIS-Based Modeling

9.7.3 Real-Time Environmental Sensors

Works Cited - Chapter 9

Chapter 10: Cross Cutting Issues

10.1 Tribal Knowledge and Co-Management

10.1.1 Traditional Ecological Knowledge

10.1.2 Yakama Nation Treaty Rights and Interests

10.1.3 Collaborative Management Approaches

10.1.4 Cultural Resources Protection

10.2 Cumulative Effects Analysis

10.2.1 Multi-Disturbance Cumulative Impacts

10.2.2 Basin-Scale Assessment Methods

10.2.3 Growth Projections and Buildout Analysis

10.2.4 Thresholds and Tipping Points

10.3 Nature-Based and Geoengineered Solutions

10.3.1 Green Infrastructure

10.3.2 Ecological Restoration

10.3.3 Multi-Benefit Projects

10.4 Integration and Long-Term Management

10.4.1 Overlapping Critical Areas

10.4.2 Coordination with Comprehensive Plan Elements

10.4.3 Regional Coordination

Works Cited - Chapter 10

Appendices

Appendix A: Riparian Management Zones - Width Analysis and Recommendations

Appendix B: BAS Portal Technical Documentation

Appendix C: Science Advisory Group and Subject Matter Expert Roster

Appendix D: Comprehensive Bibliography and References

Appendix E: Managed Aquifer Recharge Site Assessment Methodology

Appendix F: Habitat Connectivity Analysis and Mapping

Appendix G: Post-Disturbance Critical Areas Management

G.1 Post-Fire Recovery Across Critical Area Types

G.2 Post-Flood Recovery and Restoration

G.3 Drought Recovery Trajectories

G.4 Compound Disturbance Effects

G.5 Monitoring Post-Disturbance Recovery

Appendix H: Climate Projections and Downscaling Methodology

Appendix I: Monitoring Protocols by Critical Area Type

Appendix J: High Resolution Change Detection (HRCD) Methodology

End of Table of Contents
Yakima County Best Available Science Update, 2026