# TABLE OF CONTENTS

## CHAPTER ONE: SYSTEM GOALS AND MEASURES

INTRODUCTION ................................................................................................................... 1-1  
PLAN COMPONENTS AND PROCESS ..................................................................................... 1-1  
PROJECT ADVISORY COMMITTEE .......................................................................................... 1-3  
SYSTEM PRINCIPLES............................................................................................................... 1-3  
  System Performance Measures .......................................................................................... 1-4  
  Performance Measure: Geographic Coverage ............................................................... 1-4  
  Performance Measure: Facility Support .......................................................................... 1-5  
  Performance Measure: Preservation .............................................................................. 1-5  
  Performance Measure: Transportation Support ........................................................... 1-5  
  Performance Measure: Economic Support ................................................................. 1-6  
  Performance Measure: Safety & Security ..................................................................... 1-6  
NEXT STEPS ........................................................................................................................... 1-7  

## CHAPTER TWO: INVENTORY

INTRODUCTION ................................................................................................................... 2-1  
INVENTORY PROCESS ........................................................................................................ 2-1  
EXISTING SYSTEM ............................................................................................................... 2-2  
  FAA National Plan of Integrated Airport Systems (NPIAS) Airports ............................... 2-2  
  Non-NPIAS Airports ..................................................................................................... 2-4  
  Idaho Airstrip Network (IAN) ...................................................................................... 2-4  
AIRSIDE FACILITIES ........................................................................................................ 2-6  
  Runways ....................................................................................................................... 2-6  
  Runway Length ........................................................................................................... 2-6  
  Runway Surface Type .................................................................................................. 2-8  
  Navigational Aids and Instrument Approach Capabilities ........................................... 2-8  
  Navigational Aids (NAVAIDS) .................................................................................. 2-8  
  Automated Weather .................................................................................................. 2-8  
  Instrument Approach Capabilities ............................................................................. 2-9  
AVIATION SERVICES AND LANDSIDE FACILITIES ..................................................... 2-11  
  Fuel Services ................................................................................................................ 2-11  
  General Aviation Terminal Facilities .......................................................................... 2-14  
  Aircraft Hangars ......................................................................................................... 2-14  
AVIATION ACTIVITY AND BASED AIRCRAFT .............................................................. 2-14  
  Based Aircraft ............................................................................................................. 2-15  
  Aviation Activity – Operations Counts .................................................................... 2-15  
  General Activity Observations ................................................................................. 2-15  
STATE, REGIONAL AND LOCAL ISSUES .......................................................................... 2-16  
  Land Use Compatibility ............................................................................................. 2-16  
  Through the Fence Activity ....................................................................................... 2-17  
  Availability of Land .................................................................................................... 2-17  
  Funding Availability .................................................................................................. 2-17  
INVENTORY SUMMARY ..................................................................................................... 2-18
CHAPTER THREE: AIRPORT ROLE ANALYSIS

ROLE EVALUATION.......................................................... 3-1
Factors in Determining Airport Roles ......................................... 3-2
Geographic Coverage ............................................................ 3-3
Facility Support ........................................................................ 3-4
Preservation .............................................................................. 3-4
Transportation Support ........................................................... 3-4
Economic Support ..................................................................... 3-5
Safety & Security ..................................................................... 3-5
RESULTS OF EVALUATION ................................................... 3-6
Airport Role Definitions .......................................................... 3-7
FACILITY AND SERVICE OBJECTIVES .................................... 3-11
SUMMARY .................................................................................. 3-14

CHAPTER FOUR: FORECASTS OF AVIATION ACTIVITY

INTRODUCTION ..................................................................... 4-1
NATIONAL AVIATION TRENDS ................................................ 4-1
Commercial Service Trends ..................................................... 4-2
Demand for Air Service Recovers .......................................... 4-2
Idaho Demand for Air Service Follows U.S. Trends .................... 4-3
High Fuel Prices Disrupt the Financial Recovery of the Airlines .. 4-3
High Breakeven Load Factors Reflect Low Fares and High Costs . 4-4
FAA Commercial Aviation Forecasts ......................................... 4-5
General Aviation Trends .......................................................... 4-6
FAA General Aviation Forecasts ................................................. 4-8
Technology Trends ................................................................. 4-9
Very Light Jets ......................................................................... 4-9
Wide Area Augmentation System ............................................. 4-11
IDAHO AVIATION TRENDS ...................................................... 4-14
Commercial Aviation in Idaho .................................................. 4-14
Economic Trends ..................................................................... 4-17
General Aviation in Idaho ........................................................ 4-21
Based Aircraft .......................................................................... 4-21
Registered Aircraft in Idaho ...................................................... 4-22
IDAHO COMMERCIAL SERVICE AIRPORT FORECASTS .......... 4-24
Forecasts .............................................................................. 4-24
IDAHO GENERAL AVIATION AIRPORT FORECASTS .......... 4-26
Based Aircraft Projections ....................................................... 4-26
Existing Based General Aviation Aircraft .................................. 4-27
Based Aircraft Projection Methodologies .................................. 4-27
Selection of Preferred Based Aircraft Projection ....................... 4-28
Aircraft Operations Projections ............................................... 4-31
Aircraft Operations Projection Methodologies ......................... 4-31
Selection of Preferred Aircraft Operations Projection ............... 4-32
COMPARISON OF IASP FORECASTS TO FAA TAF .............. 4-33
Based Aircraft .......................................................................... 4-34
Aircraft Operations ................................................................. 4-36
FORECAST SUMMARY ............................................................ 4-37
CHAPTER FIVE: SYSTEM PERFORMANCE ANALYSIS

INTRODUCTION .................................................................................................................. 5-1
OUTSIDE INFLUENCES ........................................................................................................ 5-1
Population ......................................................................................................................... 5-2
Employment ....................................................................................................................... 5-4
Clean Energy Technology ................................................................................................. 5-6
Tourism ............................................................................................................................. 5-6
Surface Transportation Improvements .............................................................................. 5-7
RECOMMENDED ROLE CHANGES .................................................................................... 5-8
PERFORMANCE MEASURE: GEOGRAPHIC COVERAGE .................................................. 5-9
Percent of Population and Area Within 90 Minutes of a Commercial Service Airport
With Multiple Airlines or 60 Minutes of a Commercial Service Airport With a Single
Airline ................................................................................................................................. 5-9
Percent of Population and Area Within 30 Minutes of a NPIAS Airport ................................ 5-12
Percent of Population and Area Within 30 Minutes of Any Airport ............................... 5-12
Percent of Population and Area Within 30 Minutes of an Idaho Airstrip Network (IAN)
Airport ............................................................................................................................... 5-17
PERFORMANCE MEASURE: FACILITY SUPPORT .......................................................... 5-17
Percent of Population and Area Within 30 Minutes of an Airport With an Instrument
Approach ............................................................................................................................ 5-17
Percent of Population and Area Within 30 Minutes of an Airport With On-Site Weather
Reporting ............................................................................................................................ 5-21
Percent of Airports Meeting Minimum Facility Objectives ................................................. 5-24
PERFORMANCE MEASURE: PRESERVATION ................................................................. 5-26
Percent of Airports With an Overall Pavement Condition Index (PCI) of 81 or Greater ....... 5-27
Percent of Airports With Master Plans or ALP Reports ................................................. 5-30
Percent of Airports With Compatible Land Use Zoning Adopted ..................................... 5-34
Percent of Airports That Have a Spill Prevention, Control and Countermeasures (SPCC)
Plan ................................................................................................................................. 5-35
Percent of Airports That Have a Storm Water Pollution Prevention Plan (SWPPP) ............ 5-36
PERFORMANCE MEASURE: TRANSPORTATION .......................................................... 5-37
Number of Remote Communities Not Served by an IASP Airport .................................... 5-37
Percent of Airports With a Courtesy Car and/or Rental Car Available ................................ 5-40
Percent of Airports With Public Transportation Available ............................................. 5-40
Percent of Airports With On-Demand Air Taxi Flights Serving IAN Airport ..................... 5-46
PERFORMANCE MEASURE: SAFETY AND SECURITY .................................................. 5-48
Percent of Airports With Height Zoning ........................................................................... 5-48
Percent of Airports Controlling all Runway End RPZs ..................................................... 5-49
Percent of Airports That Support Life Flight Activities ................................................... 5-53
Percent of Airports That Have Written GA Airport Security Procedures ......................... 5-56
Percent of Airports That Support Fire Fighting ................................................................ 5-58
PERFORMANCE MEASURE: ECONOMIC SUPPORT ..................................................... 5-63
Percent of Population Within 30 Minutes of an Airport Capable of Meeting Business
User Needs ......................................................................................................................... 5-63
Percent of Businesses With the Propensity to use Aviation Within 30 Minutes of a
System Airport ................................................................................................................ 5-66
Percent of Airports That Accommodate Aerial Application Services ............................... 5-66
Airports Accommodating Instrument Flight Rules (IFR) Operations from Outside
Idaho ................................................................................................................................. 5-72
Percent of Airports With Air Cargo/Freight Activities .................................................... 5-77
Recreational Areas Served by “Portal” Airports ................................................................. 5-80
CHAPTER SIX: RECOMMENDED SYSTEM OF AIRPORTS

OVERVIEW ........................................................................................................................... 6-1
DEVELOPMENT OF BENCHMARK TARGETS ........................................................................ 6-2
ACTIONS TO RESPOND TO BENCHMARK TARGETS .............................................................. 6-2

Performance Measure: Geographic Coverage ........................................................................ 6-2
Benchmark: Percent of Population and Area within 90 Minutes of a Commercial Service Airport with Multiple Airlines or 60 Minutes of a Commercial Service Airport With a Single Airline .................................................................................................................. 6-2
Benchmark: Percent of Population and Area within 30 Minutes of a NPIAS Airport .............. 6-3
Benchmark: Percent of Population and Area within 30 Minutes of Any Airport ...................... 6-4
Benchmark: Percent of Population and Area within 30 Minutes of an Idaho Airstrip Network (IAN) Airport .................................................................................................................. 6-4

Performance Measure: Facility Support ................................................................................ 6-4
Benchmark: Percent of Population and Area within 30 Minutes of an Airport with An Instrument Approach ................................................................................................................. 6-4
Benchmark: Percent of Population and Area within 30 Minutes of an Airport with On-site Weather Reporting .................................................................................................................. 6-5
Benchmark: Percent of Airports Meeting Minimum Facility Objectives .................................. 6-5

Performance Measure: Preservation ..................................................................................... 6-5
Benchmark: Percent of Airports with an Overall Pavement Condition Index (PCI) of 81 or Greater ........................................................................................................................................ 6-5
Benchmark: Percent of Airports with Master Plans or ALP Reports ........................................ 6-6
Benchmark: Percent of Airports with Compatible Land Use Zoning Adopted ........................ 6-8
Benchmark: Percent of Airports that have a Spill Prevention, Control and Countermeasures (SPCC) Plan ......................................................................................................................... 6-8
Benchmark: Percent of Airports that have a Storm Water Pollution Prevention Plan (SWPPP) ................................................................................................................................... 6-8

Performance Measure: Transportation Support ..................................................................... 6-8
Benchmark: Number of Remote Communities Not Served by an IASP Airport ...................... 6-8
Benchmark: Percent of Airports with a Courtesy Car and/or Rental Car Available .......... 6-9
Benchmark: Percent of Airports with Public Transportation Available ................................ 6-9
Benchmark: Percent of Airports with On-Demand Air Taxi Flights Serving IAN Airports .......... 6-10

Performance Measure: Safety & Security ............................................................................. 6-10
Benchmark: Percent of Airports with Height Zoning ............................................................ 6-10
Benchmark: Percent of Airports Controlling all Runway End RPZs ...................................... 6-10
Benchmark: Percent of Airports That Support Life Flight Activities .................................. 6-12
Benchmark: Percent of Airports That have written GA Airport Security Procedures .......... 6-12
Benchmark: Percent of Airports That Support Fire Fighting ................................................. 6-13

Performance Measure: Economic Support .......................................................................... 6-13
Benchmark: Percent of Population within 30 Minutes of an Airport Capable of Meeting Business User Needs ................................................................. 6-13
Benchmark: Percent of Businesses with the Propensity to Use Aviation within 30 Minutes of a System Airport .................................................................................................................. 6-14
Benchmark: Percent of Airports that Accommodate Aerial Application Services .......... 6-14
Benchmark: Airports Accommodating Instrument Flight Rules (IFR) Operations from Outside Idaho .......................................................................................................................... 6-14
Benchmark: Percent of Airports with Air Cargo/Freight Activities .................................. 6-14
Benchmark: Recreational Areas Served by “Portal” Airports .............................................. 6-15
CHAPTER SEVEN: POLICY ANALYSIS & INVESTIGATION RECOMMENDATIONS

ROLE AND MISSION FOR AVIATION................................................................. 7-1
Role of Aviation in Idaho .............................................................................. 7-1
Aviation Mission for ITD Division of Aeronautics ........................................ 7-2
CURRENT AVIATION POLICIES................................................................. 7-2
Idaho Administrative Rules......................................................................... 7-3
Idaho Statutes ............................................................................................... 7-5
ITD Division of Aeronautics Duties.............................................................. 7-8
POLICIES FOR CONSIDERATION ............................................................... 7-9
Policy Framework ....................................................................................... 7-10
CURRENT FUNDING DISTRIBUTION GUIDELINES..................................... 7-13
EXISTING PRIORITY SYSTEM ................................................................. 7-14
Review of Other State Funding/Priority Systems...................................... 7-14
Michigan .................................................................................................... 7-17
Washington ................................................................................................. 7-17
Wyoming .................................................................................................... 7-18
Minnesota ................................................................................................. 7-19
CONSIDERATIONS FOR MODIFICATIONS TO THE EXISTING PROPERTY SYSTEM 7-20
SUMMARY .................................................................................................. 7-21

CHAPTER EIGHT: IMPLEMENTATION PLAN

OVERVIEW.................................................................................................. 8-1
DEVELOPMENT COSTS SUMMARY .............................................................. 8-1
FUNDING SOURCES ........................................................................................................... 8-2
Federal Funding Sources and VISION-100 ................................................................. 8-2
State Funding .................................................................................................................. 8-3
Local Funding ............................................................................................................... 8-4
General Fund Revenues ............................................................................................... 8-5
Bond Funds .................................................................................................................. 8-5
Airport-Generated Revenues ...................................................................................... 8-5
Private Funds ............................................................................................................... 8-6
FUNDING NEEDS .......................................................................................................... 8-6
NPIAS RECOMMENDATIONS ...................................................................................... 8-6
ADDITIONAL RECOMMENDATIONS/CONTINUOUS PLANNING ..................................... 8-7
Related System Recommendations .......................................................................... 8-7
Continuous Planning ................................................................................................... 8-9
Surveillance ................................................................................................................ 8-9
Activity Indicators ...................................................................................................... 8-10
Facilities/Services ..................................................................................................... 8-10
Reappraisal ............................................................................................................... 8-10
Service and Coordination ......................................................................................... 8-11
Special Studies .......................................................................................................... 8-11
Updates ...................................................................................................................... 8-12
SUMMARY .................................................................................................................. 8-13

APPENDIX A: FUTURE FACILITY AND SERVICE OBJECTIVE COMPLIANCE

INTRODUCTION ................................................................................................................. A-1
AIRSIDE FACILITIES ...................................................................................................... A-1
Runway Length ............................................................................................................. A-5
Runway Width .............................................................................................................. A-9
Runway Strength ....................................................................................................... A-12
Taxiway ..................................................................................................................... A-16
Instrument Approach ............................................................................................... A-19
Visual Aids ............................................................................................................... A-22
Runway Lighting ....................................................................................................... A-26
Weather Reporting Facilities .................................................................................... A-29
LANDSIDE FACILITIES AND SERVICES ................................................................ A-32
Facilities .................................................................................................................... A-33
Services ................................................................................................................... A-37

APPENDIX B: ECONOMIC IMPACT ANALYSIS

INTRODUCTION ............................................................................................................... B-1
STUDY APPROACH ..................................................................................................... B-3
The Economic Modeling Process ............................................................................ B-3
Data Requirements for the Economic Modeling Process ...................................... B-5
SURVEYS, DATA COLLECTION METHODS, AND MODEL ASSUMPTIONS ............ B-6
Airport Operations and On-Airport Activities (First Round Direct Impacts) .... B-6
Commercial Service Visitors .................................................................................. B-8
General Aviation Visitors ........................................................................................ B-10
Study Multipliers/Secondary Impacts ................................................................. B-12
EMPLOYMENT, PAYROLL, AND OUTPUT IMPACTS FOR STUDY AIRPORTS .... B-13
Employment Impacts ............................................................................................... B-13
Employment from On-Airport Activity ............................................................... B-13
APPENDIX C: LAND USE GUIDELINES

SECTION ONE: PURPOSE OF THE AIRPORT LAND USE GUIDELINES .............................................................................. C-1
Introduction ............................................................................................................................................................................ C-1
Common Terms Used in the Airport Land Use Guidelines .................................................................................................. C-3
Organization of the Airport Land Use Guidelines ............................................................................................................. C-4

SECTION TWO: AUTHORITY FOR AIRPORT ZONING ........................................................................................................ C-5
Local Entities .............................................................................................................................................................................. C-5
Federal Aviation Administration .................................................................................................................................................. C-6
Airspace ...................................................................................................................................................................................... C-6
Land Use .................................................................................................................................................................................. C-6
FAA Order 5190.6B-FAA Airport Compliance Manual, Chapter 20-Compatible Land Use and Airspace Protection ................ C-8
FAA Order 5190.6B-FAA Airport Compliance Manual, Chapter 13-Airport Noise and Access Restrictions ......................... C-9
State of Idaho ........................................................................................................................................................................... C-10
Administrative Rules Relating to Federal Regulations ........................................................................................................ C-10
IDAPA 39.01.01. RULES GOVERNING FEDERAL AVIATION REGULATIONS ......................................................... C-10
Statutes Relating to Aviation Hazards .................................................................................................................................. C-11
IDAHO CODE-TITLE 21, AERONAUTICS, CHAPTER 5, AIRPORT ZONING ACT ..................................................... C-11
Administrative Rules Relating to Hazard Marking .................................................................................................................. C-12
GLOSSARY OF TERMS
LIST OF FIGURES

CHAPTER ONE: SYSTEM GOALS AND MEASURES

Figure 1-1: Idaho Airport System Plan Process ................................................................. 1-2

CHAPTER TWO: INVENTORY

Figure 2-1: IASP Airports .................................................................................................. 2-3
Figure 2-2: The Idaho Airport System ............................................................................... 2-5
Figure 2-3: Primary Runway Lengths ................................................................................ 2-7
Figure 2-4: Available Weather ......................................................................................... 2-10
Figure 2-5: Instrument Approach Capabilities of the System Airports .............................. 2-12
Figure 2-6: Fuel Availability at the IASP System Airports .............................................. 2-13
Figure 2-7: Existing Facilities .......................................................................................... 2-19
Figure 2-8: Approach Types and Navigational Aids ......................................................... 2-22
Figure 2-9: Lighting and Visual Aids ................................................................................ 2-28
Figure 2-10: Airport Master Plans and Airport Layout Plans ........................................... 2-34
Figure 2-11: Average Annual Aircraft Operations and Percent of Total Operations Per Activity Type ................................................................. 2-37
Figure 2-12: 2008 Based Aircraft....................................................................................... 2-40
Figure 2-13: Landside Facilities ....................................................................................... 2-43

CHAPTER THREE: AIRPORT ROLE ANALYSIS

Figure 3-1: Role Evaluation Process .................................................................................. 3-2
Figure 3-2: Role Evaluation – Geographic Coverage ......................................................... 3-15
Figure 3-3: Role Evaluation – Facility Support ................................................................. 3-17
Figure 3-4: Role Evaluation – Preservation ....................................................................... 3-19
Figure 3-5: Role Evaluation – Transportation Support ...................................................... 3-21
Figure 3-6: Role Evaluation – Economic Support .............................................................. 3-23
Figure 3-7: Role Evaluation – Safety & Security ............................................................... 3-25
Figure 3-8: Initial Airport Role Summary .......................................................................... 3-8
Figure 3-9: Initial Idaho Airport Roles ............................................................................ 3-10
Figure 3-10: Initial Idaho Airport Role Summary ............................................................. 3-12

CHAPTER FOUR: FORECASTS OF AVIATION ACTIVITY

Figure 4-1: Domestic Enplanements, 2000-2007 ............................................................... 4-2
Figure 4-2: Idaho and U.S. Enplanements Compared, 1998-2007..................................... 4-3
Figure 4-3: Average Prices: Crude oil and Jet Fuel, 1990-2008 ........................................ 4-4
Figure 4-4: Passenger Load Factors and Breakeven Points – Legacy Carriers ............... 4-5
Figure 4-5: U.S. Commercial Air Carriers, Historical and Forecast Domestic and International Passengers ................................................................................. 4-6
Figure 4-6: U.S. General Aviation Fleet Mix, 2007 ............................................................ 4-7
Figure 4-7: Active General Aviation and Air Taxi Aircraft ............................................... 4-8
Figure 4-8: U.S. Active General Aviation Aircraft, Actual and Forecast ...................... 4-8
Figure 4-9: Commercial and General Aviation Operations at Airports with FAA or Contract Towers, 2000-2007 ................................................................. 4-9
Figure 4-10: Examples of VLJ Aircraft .............................................................................. 4-10
CHAPTER FIVE: SYSTEM PERFORMANCE ANALYSIS

Figure 5-1: Airports in Counties with the Highest Projected Overall Population Growth ..........5-2
Figure 5-2: Future Population Growth .............................................................................5-3
Figure 5-3: Airports in Counties with the Highest Projected Overall Employment Growth ....5-4
Figure 5-4: Future Employment Growth .........................................................................5-5
Figure 5-5: Connecting Idaho – Project Corridor Locations ..........................................5-8
Figure 5-6: Percent of Population and Area within 90 Minutes of a Commercial Service  
           Airport with Multiple Airlines or 60 Minutes of a Commercial Service Airport  
           With a Single Airline ..................................................................................5-10
Figure 5-7: Future Percent of Population and Area within 90 Minutes of a Commercial  
           Service Airport with Multiple Airlines or 60 Minutes of a Commercial Service  
           Airport with a Single Airline .......................................................................5-11
Figure 5-8: Percent of Population and Area within 30 Minutes of a NPIAS Airport ............5-13
Figure 5-9: Future Percent of Population and Area within 30 Minutes of a NPIAS  
           Airport .......................................................................................................5-14
Figure 5-10: Percent of Population and area within 30 Minutes of any Airport .................5-15
Figure 5-11: Future Percent of Population and Area within 30 Minutes of any Airport .......5-16
Figure 5-12: Percent of Population and Area within 30 Minutes of an Idaho Airstrip  
           Network (IAN) Airport ...................................................................................5-18
Figure 5-13: Percent of Population and Area within 30 Minutes of an Airport with an  
           Instrument Approach ..................................................................................5-19
Figure 5-14: Future Percent of Population and Area within 30 Minutes of an Airport with  
           An Instrument Approach ............................................................................5-20
Figure 5-15: Percent of Population and Area within 30 Minutes of an Airport with On-Site  
           Weather Reporting ......................................................................................5-22
Figure 5-16: Future Percent of Population and Area within 30 Minutes of an Airport with  
           On-Site Weather Reporting ..........................................................................5-23
Figure 5-17: Facility and Service Objectives – Airside Facilities .....................................5-25
Figure 5-18: Facility and Service Objectives – Landside Facilities ............................................. 5-25
Figure 5-19: Facility and Service Objectives – Aviation Services .................................................... 5-26
Figure 5-20: Airport Performance – Pavement Condition Index (PCI) of 81 or Greater ................. 5-27
Figure 5-21: System Performance – Pavement Condition Index (PCI) of 81 or Greater ............... 5-30
Figure 5-22: Airport Performance – Airports with Master Plans or ALP Reports ......................... 5-31
Figure 5-23: System Performance – Airports with Master Plans .................................................... 5-33
Figure 5-24: System Performance – Airports with ALPs ................................................................. 5-34
Figure 5-25: System performance – Airports with Compatible Land Use Zoning .......................... 5-35
Figure 5-26: System Performance – Airports with Spill Prevention, Control and Countermeasures (SPCC) Plan ........................................................................... 5-36
Figure 5-27: System Performance – Airports with Storm Water Pollution Prevention Plans (SWPPP) .................................................................................................................. 5-37
Figure 5-28: Remote Community Coverage Provided by IASP Airports ...................................... 5-38
Figure 5-29: List of Remote Communities ......................................................................................... 5-39
Figure 5-30: Airport Performance – Airports with a Courtesy Car and/or Rental Car Available .......................................................................................................................... 5-41
Figure 5-31: System Performance – Airports with a Courtesy Car and/or Rental Car Available .......................................................................................................................... 5-43
Figure 5-32: Airport Performance – Airports with Public Transportation Available ......................... 5-43
Figure 5-33: System Performance – Airports with Public Transportation Available ......................... 5-46
Figure 5-34: System Airports with On-Demand Air Taxi Flights Serving IAN Airports .................. 5-47
Figure 5-35: System Performance – Percent of Airports with Height Zoning .................................... 5-49
Figure 5-36: Airport Performance – Percent of Airports Controlling all Runway End RPZs ............... 5-50
Figure 5-37: System Performance – Percent of Airports Controlling all Runway End RPZs .............. 5-53
Figure 5-38: Airport Performance – Airports that Support Life Flight Activities .............................. 5-54
Figure 5-39: System Performance – Airports that Support Life Flight Activities .............................. 5-56
Figure 5-40: System Performance – Airports with Written GA Airport Security Procedures ............. 5-57
Figure 5-41: Airport Performance – Airports that Support Fire Fighting ......................................... 5-58
Figure 5-42: System Performance – Airports that Support Fire Fighting ......................................... 5-61
Figure 5-43: Airports that Support Fire Fighting ............................................................................... 5-62
Figure 5-44: Percent of Population within 30 Minutes of an Airport Capable of Meeting Business User Needs ................................................................................................................. 5-64
Figure 5-45: Future Percent of Population within 30 Minutes of an Airport Capable of Meeting Business User Needs ................................................................................................................. 5-65
Figure 5-46: Percent of Businesses with the Propensity to Use Aviation within 30 Minutes Of A System Airport .................................................................................................................. 5-67
Figure 5-47: Airport Performance – Airports that Accommodate Aerial Application Services ........ 5-68
Figure 5-48: System Performance – Airports that Accommodate Aerial Application Services ........ 5-70
Figure 5-49: Airports that Accommodate Aerial Application Services .............................................. 5-71
Figure 5-50: Idaho Airports 2007 IFR Operations from Outside Idaho .............................................. 5-73
Figure 5-51: Idaho Airports 2007 IFR Arrivals .................................................................................. 5-74
Figure 5-52: IFR Arrivals Originating Outside Idaho ......................................................................... 5-75
Figure 5-53: Airport Performance – Percent of Airports with Air Cargo/Freight Activities ............. 5-78
Figure 5-54: System Performance – Percent of Airports with Air Cargo/Freight Activities ............. 5-80
Figure 5-55: Percent of Recreational Areas Served by “Portal” Airports ........................................ 5-81

CHAPTER SIX: RECOMMENDED SYSTEM OF AIRPORTS

Figure 6-1: Airports to be Considered for Improved PCI Ratings .................................................. 6-6
Figure 6-2: Airports to be Considered for a Master Plan or Updated ALP ........................................ 6-7
Figure 6-3: Airports to be Considered for a Courtesy Car and/or Rental Car ..................................... 6-9
Figure 6-4: Airports Recommended to Gain Full Control of Primary Runway RPZs ............................ 6-11
2008 IDAHO AIRPORT SYSTEM PLAN

Figure 6-5: Airports Recommended to Meet Business User Needs ........................................... 6-13
Figure 6-6: Performance Measure – Geographic Coverage – Summary ........................................ 6-16
Figure 6-7: Performance Measure – Facility Support – Summary ........................................... 6-17
Figure 6-8: Performance Measure – Preservation – Summary .................................................. 6-18
Figure 6-9: Performance Measure – Transportation Support – Summary ................................... 6-19
Figure 6-10: Performance Measure – Safety & Security – Summary ......................................... 6-20
Figure 6-11: Performance Measure – Economic Support – Summary ....................................... 6-21
Figure 6-12: Facility and Service Objectives ............................................................................... 6-23
Figure 6-13: Recommended Development – Primary Runway Lengthening .............................. 6-24
Figure 6-14: Recommended Development – Primary Runway Widening .................................. 6-25
Figure 6-15: Recommended Development – Runway Strengthening ......................................... 6-26
Figure 6-16: Recommended Development – Taxiways ............................................................... 6-27
Figure 6-17: Recommended Development – Approaches ............................................................ 6-27
Figure 6-18: Recommended Development – Runway Lighting ................................................... 6-28
Figure 6-19: Recommended Development – Rotating Beacons ................................................. 6-29
Figure 6-20: Recommended Development – Wind Cones .......................................................... 6-30
Figure 6-21: Recommended Development – REILs ............................................................... 6-31
Figure 6-22: Recommended Development – GVGI ................................................................. 6-32
Figure 6-23: Recommended Development – Approach Lighting Systems ............................... 6-32
Figure 6-24: Recommended Development – Weather Reporting ............................................... 6-33
Figure 6-25: Recommended Development – Phone ................................................................. 6-34
Figure 6-26: Recommended Development – Restrooms ............................................................. 6-35
Figure 6-27: Recommended Development – Fuel Facility .......................................................... 6-36
Figure 6-28: Recommended Development – Ground Transportation ......................................... 6-37
Figure 6-29: Recommended Development – Terminal/Facility .................................................. 6-38
Figure 6-30: Recommended Development – Hangar ................................................................. 6-39
Figure 6-31: Recommended Development – Apron ................................................................. 6-39
Figure 6-32: Recommended Development – Auto Parking .......................................................... 6-40
Figure 6-39: Total 20-Year Development Costs by Airport Classification .................................... 6-42
Figure 6-40: 20-year Development Costs by Airport Role .......................................................... 6-42
Figure 6-41: Total 20-Year Development Costs by Specific Project Types ................................. 6-44
Figure 6-42: 20-Year Development Costs by Specific Project Type ............................................. 6-45

CHAPTER SEVEN: POLICY ANALYSIS & INVESTIGATION RECOMMENDATIONS

Figure 7-1: Idaho Administrative Rules ..................................................................................... 7-3
Figure 7-2: Idaho Code ............................................................................................................. 7-6
Figure 7-3: Comparison of ITD Division of Aeronautics Duties/Programs with Other
Western U.S. States ............................................................................................................. 7-9
Figure 7-4: Recommended Policy Relationship Matrix ............................................................... 7-12
Figure 7-5: Sample of State Priority Rating Systems ................................................................. 7-15

CHAPTER EIGHT: IMPLEMENTATION PLAN

Figure 8-1: 20-Year Total Development Cost by Role ................................................................. 8-1
Figure 8-2: U.S. Historical AIP Funding ....................................................................................... 8-2
Figure 8-3: Historical Aviation Funding In Idaho ....................................................................... 8-4

APPENDIX A: FUTURE FACILITY AND SERVICE OBJECTIVE COMPLIANCE

Figure A-1: Airside Facility Compliance Summary 1 ................................................................. A-2
APPENDIX B: ECONOMIC IMPACT ANALYSIS

Figure B-1: Idaho Airports Included in Economic Impact Analysis ............................................. B-2
Figure B-2: Enplanements & Percent Visitors at Idaho’s Commercial Service Airports .................. B-9
Figure B-3: Idaho IMPLAN Multipliers by Economy Sector ......................................................... B-12
Figure B-4: Idaho On-Airport Employment ................................................................................... B-14
Figure B-5: Idaho Employment from Commercial Service Visitor Spending ................................ B-14
Figure B-6: Idaho Employment from General Aviation Visitor Spending ..................................... B-15
Figure B-7: Idaho Total Airport Employment ................................................................................ B-15
Figure B-8: Idaho On-Airport Activity Payroll .............................................................................. B-16
Figure B-9: Idaho Annual Payroll from Commercial Service Visitor Spending ....................... B-16
Figure B-10: Idaho Annual Payroll from General Aviation Visitor Spending .............................. B-17
Figure B-11: Idaho Airports Total Annual Payroll ....................................................................... B-18
Figure B-12: Idaho On-Airport Activity Output ............................................................................. B-18
Figure B-13: Idaho Output from Commercial Service Visitor Spending ................................... B-19
Figure B-14: Idaho Output from General Aviation Visitor Spending ........................................... B-19
Figure B-15: Idaho Airports Total Annual Output ....................................................................... B-20
Figure B-16: Typical Aerial Applicator Benefits to Crops in Idaho ............................................ B-22
Figure B-17: Total Direct Tax Impacts by Revenue Source – 2007 .............................................. B-23
Figure B-18: Total Direct Tax Impacts for BOI and Other Airports in Idaho ............................... B-24
Figure B-19: Summary of Estimated Taxes Generated by Airport Activity ............................... B-27
Figure B-20: Economic Impact Summary Table for Airports in Idaho ........................................ B-31
Figure B-21: Estimates of General Aviation Itinerant Arrivals at Idaho’s Airports ....................... B-32
APPENDIX C: LAND USE GUIDELINES

Figure C-1: FAA “Part 77” Imaginary Surfaces ................................................................. C-20
Figure C-2: Sample Aircraft Noise Impact Area ................................................................. C-22
Figure C-3: Airport Noise Compatibility Table .................................................................. C-23
Figure C-4: Aircraft Accident Areas .................................................................................. C-24
Figure C-5: Airport Safety Area ......................................................................................... C-25
Figure C-6: Aircraft Overflight Areas ................................................................................ C-26
Figure C-7: Airport Influence Area and Safety Area .......................................................... C-28
Figure C-8: Land Use Compatibility Table ....................................................................... C-30
Figure C-9: Airport Airspace Drawing .............................................................................. C-57
Figure C-10: Runway Protection Zone .............................................................................. C-60
Figure C-11: Typical Airport Traffic Patterns ................................................................. C-61
Figure C-12: Calculating Airport Traffic Pattern Dimensions ........................................ C-62
Figure C-13: Airport Land Use Zone Map ................................................................. C-65
Figure C-14: Idaho Airport Land Use Compatibility Zoning Table ................................... C-70
Figure C-15: Idaho Airport Influence Area Matrix ......................................................... Sub-Appendix