

BARNES-DRUMMOND COMMUNITY WILDFIRE PROTECTION PLAN**TABLE OF CONTENTS****I. Introduction and Background**

| | |
|--------------------------------|---|
| Introduction | 1 |
| Purpose | 1 |
| Planning Objectives | 2 |
| Wildfire Planning History..... | 3 |

II. Planning Process Description

| | |
|-------------------------------|---|
| Background | 5 |
| CWPP Steering Committee | 6 |

III. Project Area

| | |
|--|----|
| General Description | 7 |
| Climate | 7 |
| Economics..... | 8 |
| Natural Resources | 8 |
| Population and General Demographics..... | 8 |
| Land Use | 10 |
| Housing Development | 11 |

IV. Wildfire Background and History

| | |
|--|----|
| Introduction to Wildfire | 12 |
| Factors Influencing Wildfire Susceptibility..... | 12 |
| Weather | 12 |
| Fuels..... | 12 |
| Topography..... | 13 |
| Primary Causes of Wildfire..... | 14 |
| Barnes-Drummond Fire History..... | 15 |
| Fire Regimes | 16 |
| Historic Fire Regimes-Project Area..... | 16 |
| Fuel Models..... | 18 |
| Long-Range Planning..... | 19 |

V. Wildfire Risk Assessment

| | |
|--|----|
| What is the Wildfire Risk Assessment | 20 |
| Data Inputs | 20 |
| Model Used | 20 |
| Weighting the Inputs..... | 21 |
| Model Input Descriptions..... | 21 |
| Fuel Hazards | 21 |
| Risk of Wildfire Occurrence | 21 |
| Essential Infrastructure at Risk | 22 |
| Other Community Values at Risk | 22 |
| Local Preparedness and Firefighting Capability | 23 |
| Risk Assessment Methodology | 24 |
| Fuel Hazards | 24 |
| Risk of Wildfire Occurrence | 25 |
| Essential Infrastructure at Risk | 26 |
| Other Community Values at Risk | 27 |
| Local Preparedness and Firefighting Capability | 28 |
| Overall Assessment | 29 |
| Wildland-Urban Interface | 30 |

VI. Communities at Risk and Community Planning Units

| | |
|---|----|
| Background | 31 |
| Community Planning Units | 31 |
| Planning Units in the Town of Drummond..... | 33 |
| Community of Drummond..... | 33 |
| Drummond South | 34 |
| Lake Owen..... | 35 |
| Pigeon Lake | 36 |
| Wilderness..... | 37 |
| Forest Boundary | 38 |
| Planning Units in the Town of Barnes | 39 |
| Eau Claire Lakes North | 39 |
| Eau Claire Lakes South | 40 |
| Potawatomi Estates..... | 41 |
| Eight Mile Lake | 42 |

VII. Hazardous Fuels Reduction

| | |
|--|----|
| Fuels, Fire Hazard, Risk & Vegetation Treatments (Federal Lands) | 43 |
| Planning Units in the Town of Drummond | 43 |
| Community of Drummond | 43 |
| Drummond South | 43 |
| Lake Owen | 44 |
| Pigeon Lake | 45 |
| Wilderness | 45 |
| Forest Boundary | 46 |
| Planning Units in the Town of Barnes | 47 |
| Eau Claire Lakes North | 47 |
| Eau Claire Lakes South | 48 |
| Potawatomi Estates | 49 |
| Eight Mile Lake | 50 |
| Hazardous Fuels Reduction Projects - Chequamegon-Nicolet National Forest | 52 |
| Hazardous Fuels Reduction Projects - Bayfield County Forest | 55 |

VIII. Fire Management

| | |
|---|----|
| Background | 57 |
| Wisconsin Department of Natural Resources | 57 |
| US Forest Service - Chequamegon-Nicolet National Forest | 59 |
| Bayfield County Forest | 59 |
| WDNR Fire Response Resources | 61 |
| Interagency Cooperation | 62 |
| Training | 62 |
| Federal Resources | 64 |
| Local Resources | 64 |
| Local Equipment Needs | 65 |

IX. Wildfire Mitigation Strategy

| | |
|--|----|
| Goal 1: Wildfire Prevention | 67 |
| Fire Prone Property Identification | 67 |
| Education Programs for Children and Young Adults | 67 |
| Education Programs for Adults and Landowners | 68 |
| Enforcement of Rules and Regulations | 69 |
| Cause Investigation and Determination | 70 |



| | |
|---|-----------|
| Goal 2: Effective and Safe Suppression | 71 |
| Reduce Hazardous Fuels | 71 |
| Local Equipment and Training Needs | 71 |
| Pre-suppression Planning Strategies | 72 |
| Infrastructure Improvement and Maintenance | 73 |
| | |
| X. Wildfire Mitigation Programs | |
| Background..... | 75 |
| Community Planning..... | 75 |
| Education..... | 76 |
| Wildfire Education Programs on the Internet..... | 76 |
| Education Programs for Children | 76 |
| Wildfire Resources for Adults | 77 |
| Education Resources for Homeowners..... | 77 |
| Regulatory Programs..... | 77 |
| Subdivision Regulations | 78 |
| Covenants or Deed Restrictions that Require Wildfire Hazard Mitigation..... | 78 |
| Traditional Zoning | 78 |
| Wildfire Hazard Overlay Districts..... | 78 |
| Community Protection Zones (CPZ's) | 78 |
| Building and Development Performance Standards..... | 79 |
| Development Agreements | 79 |
| Firewise Communities Program | 79 |
| | |
| Notice of Support and Approval of the Barnes-Drummond CWPP..... | 87 |
| | |
| XI. Appendix | |
| Wildfire Glossary | 83 |
| Glossary of Acronyms..... | 89 |
| Meeting Agendas and Minutes | 90 |
| Town of Drummond Resolution Adopting CWPP | 114 |
| Town of Barnes Resolution Adopting CWPP | 115 |

Index of Maps

| | |
|--|---|
| Map 1 - Community Base Map | Map 8 - Fuel Hazards |
| Map 2 - Project Area Existing Land Use | Map 9 - Risk of Wildfire Occurrence |
| Map 3 - Housing Unit Density | Map 10 - Essential Infrastructure at Risk |
| Map 4 - 1986-2005 Fire Occurrences | Map 11 - Other Community Values at Risk |
| Map 5 - 1986-2005 Fire Causes | Map 12 - Local Preparedness and Firefighting Capability |
| Map 6 - Biophysical Units | Map 13 - Overall Assessment |
| Map 7 - Fuel Types | Map 14 - Wildland-Urban Interface |

Index of Figures

| | |
|---|----|
| FIGURE 1, BARNES-DRUMMOND LAND OWNERSHIP | 7 |
| FIGURE 2, WISCONSIN WILDFIRE CAUSES ON LANDS PROTECTED BY WDNR, 2004 | 14 |
| FIGURE 3, 1986-2005 ACRES BURNED..... | 15 |
| FIGURE 4, 1986-2005 FIRE OCCURRENCES | 15 |
| FIGURE 5, FIRE OCCURRENCES BY MONTH 1986-2005 | 15 |
| FIGURE 6, FIRE OCCURRENCES BY TIME OF DAY, 1986-2005 | 15 |
| FIGURE 7, FUEL HAZARD MODEL | 24 |
| FIGURE 8, RISK OF WILDFIRE OCCURRENCE MODEL | 25 |
| FIGURE 9, ESSENTIAL INFRASTRUCTURE AT RISK MODEL | 26 |
| FIGURE 10, OTHER COMMUNITY VALUES AT RISK MODEL | 27 |
| FIGURE 11, LOCAL PREPAREDNESS AND FIREFIGHTING CAPABILITY MODEL..... | 28 |
| FIGURE 12, OVERALL ASSESSMENT MODEL..... | 29 |
| FIGURE 13, HAZARD ASSESSMENT RATING, PLANNING UNITS | 32 |
| FIGURE 14, PROPOSED HAZARDOUS FUELS REDUCTION PROJECTS, US FOREST SERVICE | 54 |
| FIGURE 15, HAZARDOUS FUELS REDUCTION PROJECTS, BAYFIELD COUNTY | 56 |
| FIGURE 16, BRULE DISPATCH GROUP | 58 |

Index of Tables

| | |
|---|----|
| TABLE 1, POPULATION 1980-2000..... | 9 |
| TABLE 2, POPULATION PROJECTIONS 2005-2025..... | 9 |
| TABLE 3, TOWN OF BARNES EXISTING LAND USE STATISTICS | 10 |
| TABLE 4, TOWN OF DRUMMOND EXISTING LAND USE STATISTICS | 10 |
| TABLE 5, HOUSING UNITS 1980-2000 | 11 |
| TABLE 6, HOUSING UNITS PROJECTIONS 2005-2020 | 11 |
| TABLE 7, 2000 CENSUS HOUSING PROFILE- OCCUPIED HOUSING UNITS | 11 |
| TABLE 8, 2000 CENSUS HOUSING PROFILE- VACANT HOUSING UNITS | 11 |
| TABLE 9, PROJECT AREA FIRE REGIMES | 16 |
| TABLE 10, SITE SPECIFIC PROJECTS, CHEQUAMEGON-NICOLET NATIONAL FOREST | 52 |
| TABLE 11, HAZARDOUS FUELS REDUCTION PROJECTS, BAYFIELD COUNTY FOREST | 55 |
| TABLE 12, LAND OWNERSHIP/MANAGEMENT ACREAGE | 57 |
| TABLE 13, WDNR WILDFIRE SUPPRESSION RESOURCES (1 HOUR RESPONSE WINDOW) | 61 |
| TABLE 14, FEDERAL WILDFIRE SUPPRESSION RESOURCES (1 HOUR RESPONSE WINDOW) | 64 |